

VAPOR INTRUSION INVESTIGATION REPORT

**Former Lockheed Electronics Company Site
Boroughs of Watchung & North Plainfield
Somerset County, New Jersey**

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CERTIFICATION

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2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or;
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.
4. For persons other than 1 through 3 above, by the person with legal responsibility for the site.

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Accompanying Laboratory Data Reports

Laboratory Analytical Results - Sub-Slab Soil Gas Sampling - February 17-18, 2011
Accutest Laboratories Analytical Data Report No. JA68565

Laboratory Analytical Results - Air Sampling - July 18-19, 2011
Accutest Laboratories Analytical Data Report No. JA81330

Acronyms

AOC	area of concern
BEE	baseline ecological evaluation
CEA	classification exception area
CDM	Camp Dresser and McKee
ECRA	Environmental Cleanup Responsibility Act
FJT	flush joint thread
FSPM	Field Sampling Procedures Manual
GWES	Ground Water Extraction System
gpm	gallons per minute
Hg	mercury
IASL	indoor air screening level
ISRA	Industrial Site Recovery Act
LEC	Lockheed Electronics Company, Inc.
LMC	Lockheed Martin Corporation
µg/m ³	microgram per cubic meter
N.J.A.C.	New Jersey Administrative Code
NJDEP	New Jersey Department of Environmental Protection
PCE	tetrachloroethene (also known as perchloroethene)
PVC	polyvinyl chloride
QAPP	quality assurance project plan
QA/QC	quality assurance / quality control
RAL	Rapid Action Level
SGSL	Soil Gas Screening Level
TCE	trichloroethene
TRC	TRC Environmental Corporation
TRSR	Technical Requirements for Site Remediation (N.J.A.C. 7:26E)
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VI	vapor intrusion
VOC	volatile organic compound

Section 1

Introduction

Camp Dresser and McKee (CDM) has prepared this Vapor Intrusion (VI) Investigation Report on behalf of Lockheed Martin Corporation (LMC) for the former Lockheed Electronics Company, Inc. facility (LEC or the "Site") located on Route 22 West in the Boroughs of Watchung and North Plainfield, Somerset County, New Jersey. The VI Investigation Report has been prepared in accordance with the New Jersey Department of Environmental Protection's (NJDEP's) current VI Guidance of October 2005 and Draft VI Guidance of May 2011, and the Technical Requirements for Site Remediation (N.J.A.C. 7:26E; TRSR).

Environmental investigation and remedial activities associated with the LEC site are under purview of the NJDEP and are performed pursuant to the regulatory authority of the Industrial Site Recovery Act (ISRA) and in accordance with the ISRA Rules (N.J.A.C. 7:26B). The Site is recorded within the NJDEP's ISRA program as Case No. E90038.

TRC Environmental Corporation (TRC) has been involved in the investigation and remediation of the Site on behalf of LMC since 1999. In their July 2009 *Remedial Action Progress Report*, TRC presented an evaluation of the potential for elevated vapor exposure within structures near the Site's ground water contaminant plume, including:

- the known or suspected Site-specific contaminant source,
- contaminant migration pathways,
- potential human receptors, and
- the exposure routes by which these receptors may come in contact with contaminants on a site-specific basis.

The evaluation concluded that the potential exists for VI to occur and to result in unacceptable indoor air quality in structures nearest to the Site, and that further investigation was warranted.

Based upon their evaluation, TRC subsequently prepared a *Revised Vapor Intrusion Investigation Workplan*, dated August 2010. The VI Investigation Workplan outlined the proposed investigation activities which focused on sub-slab soil vapor and indoor air sampling at structures present nearest to the ground water plume source area at the Site. The *Revised Vapor Intrusion Investigation Workplan* was approved by the NJDEP on December 9, 2010. TRC conducted the proposed sub-slab soil vapor sampling on February 17-18, 2011, and the proposed indoor air sampling on July 18-19, 2011.

This VI Investigation Report discusses the soil gas and indoor air vapor intrusion investigation sampling that TRC conducted at the Site, and is organized as follows: background Site information is summarized in Section 2; an overview of the approved VI Investigation Workplan is presented in Section 3, an overview of the approved Quality Assurance Project Plan is presented in Section 4, the VI sampling results are discussed in Section 5, and conclusions and recommendations are provided in Section 6.

Section 2

Background Information

2.1 Site Location and Description

The Site is a parcel of land approximately 80 acres in size located on the north side of US Route 22 in the boroughs of Watchung and North Plainfield, Somerset County, New Jersey. Following cessation of activities at the Site by LEC, it was re-developed as the Watchung Square Mall. **Figure 2-1** provides a map showing the location of the Site on a United States Geologic Survey (USGS) 7.5-minute series topographic map (Chatham, NJ quadrangle), and depicts the Site's location, local topography, and surface drainage patterns.

The Site is located in a mixed residential and commercial area. U.S. Route 22 borders the Site to the south, and is predominately commercial with residential properties located on side streets, and mapped wetlands in drainage areas. An apartment complex (Crystal Ridge Club) and a condominium complex (Regency Village) are located west of the Site. Forested areas and residences border the Site to the north, and commercial properties border the Site to the east.

2.2 Physical Setting

The following sections describe the physical setting of the subject property.

2.2.1 Topography, Surface Water and Wetlands

As shown on **Figure 2-1**, the Site ranges in elevation from 140 to 320 feet above mean sea level, and slopes from the First Watchung Mountain, located to the northwest of the Site, to U.S. Route 22, located southeast of the Site.

Figure 2-2 provides a map showing the Site, and the Site's monitoring well network located onsite, as well as offsite to the south, southwest and southeast of the Site. As shown on **Figure 2-2**, the closest surface water body is Crab Brook. Within one mile of the Site, wetlands areas have been mapped by the NJDEP at locations immediately north of the Site, and south of the Site along U.S. Route 22.

2.2.2 Geology

The overburden at the Site is generally composed of construction fill associated with the remediation area of former LEC Building #3, a sandy outwash deposit, and a thin layer of glacial till. In the vicinity of the Site, the thickness of the overburden decreases towards the south-southwest but increases south of Crab Brook. The overburden was thinnest at well cluster MW-546 (3 feet) and generally increases south of US Route 22 with the greatest thickness of 47 feet observed at well cluster MW-542.

Below the overburden deposits is the Passaic Formation, a reddish-brown siltstone of Jurassic age. The upper surface of the bedrock is generally weathered and soft, and becomes more competent with depth. Bedrock surface topography generally slopes to the southeast parallel to the First Watchung Mountain. The highest bedrock elevation is approximately 138 feet above sea level at well cluster MW-548 and the lowest is approximately 53 feet above sea level at wells P-524 and MW-542.

2.2.3 Hydrogeology

Ground water at the Site occurs within the bedrock, and locally within the overburden. Within the bedrock aquifer, contaminant migration is influenced by both bedrock structure and local ground water discharge areas, particularly Crab Brook. The ground water in the bedrock enters the Site from the easterly direction, moves across the site to the southwest (along the strike direction of regional bedrock bedding), and then trends in a more southerly direction toward Crab Brook and beyond.

At monitoring well cluster MW-549 (at the Site), the depth to ground water is approximately 55 feet below grade. At monitoring well cluster MW-550 (at the Regency Village, located topographically and hydrogeologically downgradient of the Site), the depth to ground water is approximately 23 feet below grade. While no monitoring wells are present at the Crystal Ridge Club, the depth to ground water beneath the apartment complex is expected to be between 23 and 55 feet below grade.

Ground water in the shallow water table zone flows across the Site under an average horizontal gradient of 0.002 feet per foot (ft/ft). Ground water gradients in the shallow system steepen significantly (up to 0.018 ft/ft) southwest of the Site.

2.3 Site Ownership History and Facility Operations

The Site was originally developed in 1953 by Stavid Engineering. Lockheed Corporation acquired Stavid Engineering in 1959 and created Lockheed Electronics Corporation, which was subsequently operated by Sanders, a Lockheed Martin Company. Additional land acquisitions resulted in the current Site boundaries. The Site was used to manufacture, assemble, and test electronic components. Trichloroethene (TCE) was used in Building 7 (near the MW-549 well cluster) as a solvent to clean circuit boards. Site operations ceased in 1989.

2.4 Environmental Investigation History

The cessation of Site activities in 1989 triggered a site investigation under the New Jersey Environmental Cleanup Responsibility Act (ECRA) (superseded by the Industrial Site Recovery Act [ISRA]). The initial investigations identified several areas of concern (AOCs) and included collection of soil, sediment, ground water, and surface water samples. Investigation and remedial action results have been documented in a series of reports submitted to the NJDEP since 1991. Soil AOCs contained volatile organic compounds (VOCs), primarily TCE, as well as fuel oil, and were addressed either through excavation and off-site disposal or soil vapor

extraction. Site-wide soil remediation has been completed to the satisfaction of the NJDEP.

Early investigation activities identified a TCE ground water plume emanating from the Site. An extensive monitoring well network has been installed to delineate and monitor the plume. There are currently more than 40 active monitoring wells and piezometers associated with this project in the Boroughs of Watchung and North Plainfield, all of which are installed as either well couplets or triplets to evaluate the vertical distribution of contaminants. Ground water monitoring activities are ongoing in accordance with the Site's NJDEP-approved monitoring schedule.

Historic surface water sampling additionally indicated that ground water from the ground water plume provided base flow to Crab Brook, and historically resulted in measurable impact to surface water quality between North Avenue (Norwood Avenue) and Watchung Avenue. Four active surface water locations are utilized to monitor the surface water of Crab Brook. Surface water monitoring activities are ongoing in accordance with the Site's NJDEP-approved monitoring schedule.

To remediate the ground water plume and intercept ground water base flow to Crab Brook, the Site's ground water extraction system (GWES) was activated on July 17, 2003. Until the GWES was temporarily deactivated in late May 2011, ground water was pumped from extraction well RW-1, located on North Drive in North Plainfield, at an approximate rate of 120 gallons per minute (gpm). Until deactivation, the GWES had worked almost continuously from start-up and has functioned as designed, providing control of the bedrock ground water plume and intercepting ground water base flow prior to its reaching Crab Brook.

2.5 Well Search

As part of the Site's most recent ground water Classification Exception Area (CEA) biennial certification (submitted March 2009), TRC completed a NJDEP Bureau of Water Allocation 1-mile radius well records search and a computerized 5-mile radius search of water allocation permitted wells. The recent well search results were reviewed by TRC in order to identify all potentially active wells within a 1-mile radius of the Site. The well records generated during this search show that a total of 82 wells are located within one mile of the Site as follows: one domestic well, two industrial wells, and 79 monitoring wells. The domestic well and one of the industrial wells identified in the well records search are located either sidegradient or upgradient of the Site, and are not within the plume area. The second industrial well was located on the Crystal Ridge Club property prior to the construction of this apartment complex, and was likely abandoned or its location was lost during the redevelopment of the property. NJDEP records indicate this well was owned by Lawrence Zarinsky, the former owner of the property prior to its redevelopment.

2.6 Baseline Ecological Evaluation

A Baseline Ecological Evaluation (BEE) was conducted at the Site during February 1999 by Environmental Management Group, Inc. and Sevee and Maher Engineers, Inc. The BEE concluded that there was no measurable acute effect on aquatic species in Crab Brook from the inflow of the former LEC site plume containing TCE. The NJDEP approved the BEE in an August 9, 1999 letter concluding that no further ecological evaluation with regard to Crab Brook was required.

2.7 Contact Information

The following is a list of the applicable contact information of the project team and key roles for the LMC Site:

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Section 3

Vapor Intrusion Investigation Workplan

3.1 Approved VI Investigation Workplan

As described in Section 1, TRC prepared the August 2010 *Revised Vapor Intrusion Investigation Workplan* which was subsequently approved by the NJDEP on December 9, 2010. A complete copy of TRC's *Revised Vapor Intrusion Investigation Workplan*, along with the associated NJDEP approval letter, are provided in **Appendix A**.

As set forth in the VI Investigation Workplan, one structure at the Watchung Square Mall (Walmart store) and one adjoining property (the Crystal Ridge Club, a residential apartment complex located adjacent to the southern boundary of the former LEC property) were selected for VI investigation activities. The Walmart and the Crystal Ridge Club structures were assumed to have the highest potential for VI to occur due to their proximity to the ground water plume source area. The locations of the Walmart and the Crystal Ridge Club relative to the Site and the shallow ground water plume source area (monitoring well cluster MW-549) are shown on Figure 3 of the VI Investigation Workplan contained in **Appendix A**.

The sub-slab soil gas and indoor air sampling activities proposed in the approved VI Investigation Workplan are described below in Sections 3.1.1 and 3.1.2. The specific sampling activities that were conducted in the field, including any deviations from the proposed VI Investigation Workplan, are detailed in Section 4.

3.1.1 Proposed Sub-Slab Soil Gas Sampling Activities

To determine if vapors associated with VOC-impacted ground water were migrating through subsurface soils and accumulating beneath the building slab at the Walmart or the Crystal Ridge buildings, a total of 13 soil vapor samples were proposed to be collected in the VI Investigation Workplan. The proposed sub-slab soil vapor sample locations are shown on Figure 3 of the VI Investigation Workplan contained in **Appendix A**.

Two sub-slab soil vapor samples were proposed to be collected from locations at the Walmart. The Walmart is a retail store covering an area of approximately 114,000 square feet. The store is constructed on a hill side, where a portion of the retail store is underlain by a warehouse/storeroom area, and the remainder of the retail store is located on a floor slab that is elevated/uphill of the warehouse/storeroom area. Since the warehouse/storeroom area is lower in elevation, and therefore vertically closer to the shallow ground water plume, this area was selected as the area to be assessed for potential vapor intrusion conditions.

The Crystal Ridge Club is an apartment complex consisting of fifteen residential buildings, a club house, and a maintenance building¹. Each of the fifteen residential buildings contains between 22 and 24 apartment units, and is identified by a building number (1 through 15), as shown on Figure 3 of the VI Investigation Workplan contained in **Appendix A**. The fifteen residential buildings are subdivided based on their floor plans into five different building types (Types A, B, C, D, and D Option E). Building type A (Building 1), building type B (Buildings 2 and 3), and building type C (Buildings 4, 5, 13, and 15) have no ground floor apartment units, whereas building type D (Buildings 6 through 11) and type D option E (Buildings 12 and 14) each contain 2 ground floor apartment units. Elevation plans and ground level floor plans for all building types are presented in Appendix A of the VI Investigation Workplan contained in **Appendix A** of this report. (Note: At the time TRC prepared the VI Investigation Workplan, only plans for building types C, D and D option E were available. CDM was recently able to obtain the plans for the remaining building types and added them to the original TRC Workplan).

One sub-slab soil vapor sample was proposed to be collected from each of eleven Crystal Ridge buildings (Buildings 3 through 12, and 14). Eight of these sample locations (Buildings 6 through 12, and 14) correspond to buildings that contain ground floor apartment units, and three sample locations (Buildings 3 through 5) correspond to buildings that contain basement areas, but no ground floor apartments.

As reported to TRC by representatives of the owners of the Crystal Ridge Club, each of the apartment complex buildings incorporated a passive radon mitigation system into their construction. Each of the radon mitigation systems reportedly consists of a membrane installed beneath the poured concrete floor slab, and connected to two vent pipes (one located at each end of the building) that vent to the atmosphere at the roofline of the building. At some locations, the vent pipes are exposed (inside garage spaces), and marked “radon”. No construction plans or “as-built” drawings of this passive radon mitigation system were reportedly available for review. However, specifications from a building plan sheet describing the radon mitigation system requirements was obtained by CDM and has been inserted for reference in Appendix A of the VI Investigation Workplan contained in **Appendix A** of this report.

To minimize the potential for damage to the passive radon mitigation system beneath the floor slabs of the Crystal Ridge Club buildings, sub-slab soil vapor samples at the Crystal Ridge buildings were proposed to be collected from holes drilled laterally through the concrete walls of each building’s elevator pit, at a depth of approximately 2 feet below floor level. Prior to sampling activities, each elevator was proposed to be taken out of service using lock-out, tag-out procedures, to ensure the safety of the sampling team.

¹ The maintenance building at Crystal Ridge consists of two floors; a ground floor level used for storage of lawn mowers and other maintenance equipment, and a second floor containing a small office. Since this building primarily serves as a storage garage and is not used for continuous occupancy, no VI Investigation sampling activities were proposed to be conducted there.

All sub-slab soil gas samples were proposed to be collected in 1-Liter certified clean SUMMA® canisters equipped with flow regulators to collect soil gas over a 5 to 30-minute period. A duplicate sub-slab soil gas sample was also proposed to be collected for quality assurance/quality control (QA/QC) purposes. Following collection, all sub-slab soil gas samples were proposed to be submitted to an NJDEP-licensed laboratory and analyzed for VOCs only using USEPA method TO-15, and all drilling locations were proposed to be restored with concrete patch.

Following sub-slab soil gas sample analysis, the analytical results were to be compared to the NJDEP Soil Gas Screening Levels (SGSLs) to determine whether indoor air sampling would be required. For each building where proposed soil gas sampling is completed, if sample analytical results are below the SGSLs for the former LEC site contaminants of concern (TCE and its break-down products), no additional sampling (sub-slab or indoor air) was proposed to be completed. However, if contaminants of concern associated with the former LEC site were detected in a sub-slab soil gas sample at concentrations that exceeded the SGSLs, indoor air sampling was proposed to be completed at that building, as described below.

3.1.2 Proposed Indoor Air Sampling Activities

For each Crystal Ridge Club and Walmart building, the determination of the need for collection and analysis of indoor air samples was to be contingent upon detections of site contaminants in the sub-slab samples at concentrations exceeding the NJDEP SGSLs:

- At Crystal Ridge Club buildings with ground floor apartments (i.e., Buildings 6 through 12, and Building 14), two indoor air samples were proposed to be collected (one per ground floor apartment) for analysis, if warranted based on the sub-slab soil gas sample result corresponding with the building.
- At Crystal Ridge Club structure without ground floor apartments (i.e., Buildings 3 through 5), one indoor air sample was proposed to be collected from a ground-level garage or storage area for analysis, if warranted based on the corresponding sub-slab soil gas sample result corresponding with the building.
- At the Walmart, two indoor air samples were proposed to be collected at locations proximal to the sub-slab sample locations, if warranted based on the sub-slab soil gas sample result corresponding with the building.

In total, up to 21 indoor air samples could have been collected from the Crystal Ridge Club structures and/or the Walmart; the actual number of samples collected being contingent upon the findings of the sub-slab soil gas samples. The proposed indoor air sample locations are shown on Figure 3 of the VI Investigation Workplan contained in **Appendix A**.

Indoor air samples at Crystal Ridge were proposed to be collected in 6-Liter certified clean SUMMA® canisters equipped with flow regulators to collect air over a 24-hour period. Indoor air samples collected at Walmart were proposed to be collected over an eight-hour period based upon commercial use of the building. Following collection, all indoor air samples from Crystal Ridge were proposed to be submitted to an NJDEP-licensed laboratory and analyzed for VOCs using USEPA method TO-15.

Prior to conducting the indoor air sampling at each location, TRC proposed to perform a survey of each structure to be sampled to determine the presence of commonly stored or used materials and products, such as paints, cleaners, and degreasers, that may interfere with indoor air results or potentially produce false positive analytical results. Additionally, if the owner/operator or apartment tenant was present during TRC's survey, instructions were to be given to the owner/operator or apartment tenant concerning commercial/household materials and activities that have the potential to influence the indoor air sample results, and a copy of the VI Guidance Appendix C (Instructions for Occupants – Indoor Air Sampling Events) were to be distributed as a reference.

3.2 Approved Quality Assurance Project Plan

A Quality Assurance Project Plan (QAPP), established in accordance with the NJDEP TRSR, the NJDEP Field Sampling Procedures Manual of August 2005, and the VI Guidance of October 2005, was included in the approved VI Investigation Workplan contained in **Appendix A**.

The primary components of the approved QAPP for this project include: project quality objectives, project team responsibilities, sample collection and documentation, sample handling and custody requirements, sample quality assurance and quality control, field equipment maintenance, and laboratory deliverables.

3.2.1 Deviations from Approved QAPP

There were no deviations in project execution as compared to the protocol established in the QAPP approved for this project.

Section 4

Vapor Intrusion Investigation Sampling

4.1 Sub-Slab Soil Gas Sampling

Sub-slab soil gas sampling was conducted by TRC on February 17 and 18, 2011. Deviations in the actual sampling locations from those proposed in the VI Intrusion Workplan as well as a description of the sampling activities are detailed in the sub-sections below.

4.1.1 Deviations from Proposed Sub-Slab Soil Gas Sampling

As stipulated in the approved VI Investigation Workplan, two sub-slab soil vapor samples were proposed to be collected from the Walmart and one sub-slab soil vapor sample was proposed to be collected from each of eleven Crystal Ridge buildings (Buildings 3 through 12, and Building 14). All eleven sub-slab soil vapor samples were collected from the Crystal Ridge buildings as planned. However, due to the inability to resolve an access agreement with the owners of the Walmart building, the two proposed sub-slab soil vapor samples on that property have not yet been collected.

The locations of the sub-slab soil vapor samples collected at Crystal Ridge are shown in **Figure 4-1**.

4.1.2 Sub-Slab Soil Gas Sampling Activities

Sub-slab soil gas samples were collected at Buildings 3, 4, 5, 6, 7 and 8 on February 17, 2011. The samples were labeled according to building number location (i.e., SV-3, SV-4, SV-5, SV-6, SV-7 and SV-8). A quality assurance duplicate sample was also collected on this date at Building 8 (SV-DUP). Sub-slab soil gas samples were collected at Buildings 9, 10, 11, 12 and 14 on February 18, 2011. These samples were also labeled according to the respective building number (i.e., SV-9, SV-10, SV-11, SV-12 and SV-14).

In accordance with the VI Investigation Workplan, temporary sub-slab soil gas sampling points were constructed in the elevator pit of each building. A hammer-drill was used to advance a 1/2" diameter hole laterally through the wall of each elevator shaft at a depth of approximately 2 feet below floor level. Each hole was advanced approximately 3" into the soil situated beyond the concrete walls. Polyethylene tubing with a 3/8" outer diameter was installed in each opening, and the annular space between the hole and the sample tubing was filled and sealed with VOC-free modeling clay.

Prior to sampling, sample probes were tested for potential surface air infiltration using a helium tracer gas test. The helium tracer gas testing was conducted as follows:

- A polyethylene testing shroud was placed over the sample tubing and modeling clay seal, and set securely in place. The sample tubing was connected to a fitting that penetrated through the shroud. The fitting was then connected to a low-flow peristaltic air sample pump, and a helium detector was connected to the peristaltic pump's effluent port.
- Helium gas was released through a sample port into the shroud until the airspace between the shroud and the concrete wall was saturated.
- The soil gas sample tubing was purged using the low-flow peristaltic air sample pump purging at a rate of not more than 100 milliliters per minute. The soil gas sample tubing was screened for helium using a helium gas detector.

Tracer gas testing was performed at all sample locations. No helium was detected during the leak detection tracer tests confirming no helium had passed from the shroud airspace through the sample tubing seal, and into the sub-slab environment.

After completion of the tracer test, approximately three dead air volumes of gas were purged from the sample tubing with the peristaltic pump. The end of the sample tubing was then connected directly to the Summa® canister's regulator intake valve and the soil gas sample was collected. Flow rates for sample collection did not exceed 100 milliliters per minute to minimize ambient air infiltration during sampling.

The samples were collected with 1-Liter, laboratory-certified Summa® canisters with 10-minute regulators and an initial vacuum of 28 inches mercury (Hg) \pm 2 inches. A vacuum of 5 inches Hg \pm 1 inch was a target pressure when the sample collection was completed. Each of the sub-slab soil gas samples had a final pressure of -5 inches of Hg after collection periods which varied between 8 and 13 minutes.

After the samples were collected, the sample tubing was removed and the openings in the concrete were sealed with cement patch. A copy of the TRC field logbook entry for the sub-slab soil gas sampling is provided in **Appendix B**.

All soil gas samples were submitted to Accutest Laboratories (NJDEP Certification No. 12129) on February 18, 2011 for VOC analysis using EPA Method TO-15. The analytical results of these samples are discussed in Section 5.

4.2 Indoor Air Sampling

Indoor air sampling was conducted by TRC on July 18 and 19, 2011. Deviations in the actual sampling locations from those proposed in the VI Intrusion Workplan as well as a description of the sampling activities are detailed in the sub-sections below.

4.2.1 Deviations from Proposed Indoor Air Sampling

As stipulated in the approved VI Investigation Workplan, indoor air sampling would be conducted at building locations where contaminants of concern associated with the former LEC site were detected in a sub-slab soil gas sample at concentrations that exceeded the SGSLs. Based on the results of the sub-slab soil gas sampling (refer to

Section 5 – Vapor Intrusion Investigation Results), indoor air samples were required at Crystal Ridge Buildings 3, 6 and 12.

While not specified in the approved VI Investigation Workplan, air samples were also collected from Crystal Ridge Building 7 and Regency Village Building 26. These indoor air sample locations were requested by the NJDEP after the February 2011 sub-slab sampling was completed by TRC. More specifically, the NJDEP requested that air sampling be conducted at Crystal Ridge Building 7 to evaluate the SGSL exceedences that were reported there for non-Site related contaminants (i.e., 1,3-Butadiene, Benzene and Tetrachloroethylene [PCE]), and also at Regency Village Building 26 to confirm results of indoor air sampling previously conducted there in 2003.

The locations of the indoor air samples collected by TRC at Crystal Ridge and the Regency Village Condominium are shown in **Figure 4-1**.

4.2.2 Indoor Air Sampling Activities

Indoor air samples were collected at Crystal Ridge Buildings 3, 6, 7 and 12 and at Regency Village Building 26. The 24-hour sampling period began on July 18, 2011 and ended July 19, 2011.

Sample BLDG 3 CR was collected from the ground floor storage unit in Crystal Ridge Building 3. Two samples were collected from first floor apartment units in Crystal Ridge Building 6; sample 6006 CR in apartment 6006 and sample 6007 CR in apartment 6007. Two samples were collected from first floor apartment units in Crystal Ridge Building 7; sample 7006 CR in apartment 7006 and sample 7007 CR in apartment 7007. Two samples were collected from first floor apartment units in Crystal Ridge Building 12; sample 12002 CR in apartment 12002 and sample 12003 CR in apartment 12003. Sample BLDG 26 RV was collected from the basement of Regency Village Building 26.

The samples were collected with 6-Liter, laboratory-certified Summa® canisters with 24-hour regulators and an initial vacuum of 28 inches mercury (Hg) \pm 2 inches. A vacuum of 5 inches Hg \pm 1 inch was a target pressure when the sample collection was completed. All of the indoor air samples had a final canister pressure of between -3 and -7 inches of Hg after collection periods which varied between 22 hours 23 minutes and 24 hours 3 minutes.

Prior to conducting the indoor air sampling at each location, TRC performed a survey of each structure to determine the presence of commonly stored or used materials and products, such as paints, cleaners, and degreasers, that may interfere with indoor air results or potentially produce false positive analytical results. Copies of the NJDEP Indoor Air Building Survey and Sampling Forms completed by TRC for each collected air sample are provided in **Appendix C**.

All indoor air samples were submitted to Accutest Laboratories on July 19, 2011 for VOC analysis using EPA Method TO-15. The analytical results of these samples are discussed in Section 5.

Section 5

Vapor Intrusion Investigation Results

5.1 Sub-Slab Soil Gas Sample Results

The results of the sub-slab soil gas sample analyses are summarized in **Table 5-1**. The result for each target analyte was compared to its corresponding NJDEP SGSL. The Residential SGSLs are presented in Table 1 (revised March 2007) of the NJDEP Vapor Intrusion Guidance document. All results in **Table 5-2** are presented in concentration units of micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The full laboratory data package with complete QA/QC documentation (Accutest Analytical Data Report No. JA68565) accompanies this report. The sub-slab soil gas sample locations along with their corresponding analytical results are presented in **Figure 5-1**.

As shown in **Table 5-1**, four of the twelve sub-slab soil gas samples (SV-3, SV-6, SV-7 and SV-12) contained target VOCs above their respective Residential SGSLs. TCE was detected at concentrations exceeding the SGSL of $27 \mu\text{g}/\text{m}^3$ in 3 samples; SV-3 ($220 \mu\text{g}/\text{m}^3$), SV-6 ($247 \mu\text{g}/\text{m}^3$), and SV-12 ($37 \mu\text{g}/\text{m}^3$). Sample SV-3 also contained Chloroform at $168 \mu\text{g}/\text{m}^3$; a concentration that is above the $24 \mu\text{g}/\text{m}^3$ SGSL for that analyte. Sample SV-7 contained three target analytes at concentrations above their respective Residential SGSLs: 1,3-Butadiene ($41.1 \mu\text{g}/\text{m}^3$ vs. an $11 \mu\text{g}/\text{m}^3$ SGSL), Benzene ($26 \mu\text{g}/\text{m}^3$ vs. a $16 \mu\text{g}/\text{m}^3$ SGSL), and PCE ($36 \mu\text{g}/\text{m}^3$ vs. a $34 \mu\text{g}/\text{m}^3$ SGSL).

The approved VI Investigation Workplan specified the site-related constituents to be TCE and degradation compounds, and specified that exceedences of those compounds would trigger indoor air sampling. Only 3 of the 12 samples met those requirements (i.e., TCE in samples SV-3, SV-6 and SV-12 at concentrations exceeding the Residential SGSL of $27 \mu\text{g}/\text{m}^3$). As described in Section 4.2.1, NJDEP also requested the collection of indoor air samples at Crystal Ridge Building 7 and Regency Village Building 26 even though these samples were not required per the conditions of the approved VI Investigation Workplan. Consequently, the indoor air sampling phase of the vapor intrusion investigation was initiated at Crystal Ridge Buildings 3, 6, 7 and 12 and Regency Village Building 26.

5.2 Indoor Air Sample Results

The results of the indoor air sample analyses are summarized in **Table 5-2**. The result for each target analyte was compared to its corresponding NJDEP Residential Indoor Air Screening Level (IASL). The Residential IASLs are as presented in Table 1 (revised March 2007) of the NJDEP Vapor Intrusion Guidance document. All results in **Table 5-2** are presented in concentration units of $\mu\text{g}/\text{m}^3$. The full laboratory data package with complete QA/QC documentation (Accutest Analytical Data Report No. JA81330) accompanies this report. The indoor air sample locations along with their corresponding analytical results are presented in **Figure 5-1**.

As shown in **Table 5-2**, six of the seven indoor air samples collected at Crystal Ridge Apartments (6006 CR, 6007 CR, 7006 CR, 7007CR, 12002 CR and 12003 CR) and the

one indoor air sample collected at Regency Village Condominiums (BLDG 26 RV) contained target VOCs above their respective Residential IASLs. Benzene was detected at concentrations exceeding its IASL of $2 \mu\text{g}/\text{m}^3$ in six samples; 6006 CR ($7.7 \mu\text{g}/\text{m}^3$), 7006 CR ($4.8 \mu\text{g}/\text{m}^3$), 7007 CR ($5.8 \mu\text{g}/\text{m}^3$), 12002 CR ($7.3 \mu\text{g}/\text{m}^3$), 12003 CR ($5.4 \mu\text{g}/\text{m}^3$), and BLDG 26 RV ($3.5 \mu\text{g}/\text{m}^3$). No Benzene concentrations were detected above the $14 \mu\text{g}/\text{m}^3$ Indoor Air Rapid Action Level (RAL) established for this compound.

Chloroform was detected at concentrations exceeding its IASL of $2 \mu\text{g}/\text{m}^3$ in two samples; 6007 CR ($4.3 \mu\text{g}/\text{m}^3$) and 12002 CR ($3.8 \mu\text{g}/\text{m}^3$). No Chloroform concentrations were detected above the $8 \mu\text{g}/\text{m}^3$ Indoor Air RAL established for this compound.

1,2-Dichloroethane was detected at concentrations exceeding its IASL of $2 \mu\text{g}/\text{m}^3$ in three samples; 6006 CR ($3.1 \mu\text{g}/\text{m}^3$), 7007 CR ($2.5 \mu\text{g}/\text{m}^3$) and 12003 CR ($2.7 \mu\text{g}/\text{m}^3$). No Indoor Air RAL has been established for 1,2-Dichloroethane .

p-Dichlorobenzene was detected at a concentration exceeding its IASL of $3 \mu\text{g}/\text{m}^3$ in one sample; 6007 CR ($6.6 \mu\text{g}/\text{m}^3$). No Indoor Air RAL has been established for p-Dichlorobenzene.

PCE was detected at concentrations exceeding its IASL of $3 \mu\text{g}/\text{m}^3$ in six samples; 6006 CR ($7.5 \mu\text{g}/\text{m}^3$), 7006 CR ($5.1 \mu\text{g}/\text{m}^3$), 7007 CR ($7.5 \mu\text{g}/\text{m}^3$), 12002 CR ($8.1 \mu\text{g}/\text{m}^3$), 12003 CR ($12 \mu\text{g}/\text{m}^3$), and BLDG 26 RV ($8.1 \mu\text{g}/\text{m}^3$). No PCE concentrations were detected above the $30 \mu\text{g}/\text{m}^3$ Indoor Air RAL established for this compound.

Section 6

Conclusions and Recommendations

6.1 Conclusions

Based upon the sub-slab soil gas and indoor air sampling results described above, the following conclusions pertaining to the VI Investigation at the Site are made by CDM:

1. There are no exceedences of any Indoor Air Rapid Action Levels, therefore there are no Immediate Environmental Concerns in any building.
2. There are no exceedences of the indoor air screening level for TCE or its related breakdown compounds, the contaminants of concern for the former LEC site. Since the levels of TCE in the sub-slab samples ranged as high as 247 $\mu\text{g}/\text{m}^3$ at Building 6 (highest indoor air measurement was 0.21 $\mu\text{g}/\text{m}^3$) and 220 $\mu\text{g}/\text{m}^3$ at Building 3 (highest indoor air measurement was 0.46 $\mu\text{g}/\text{m}^3$), this is compelling evidence that vapor intrusion is not occurring. A graphical representation of the comparison of sub-slab soil gas and indoor air TCE results is presented as **Graph 1 in Appendix D**.
3. There are exceedences of the indoor air screening level for PCE in six of the eight samples, including the sample from Regency Village Building 26. The concentration of PCE in indoor air ranged from 1.4 to 12 $\mu\text{g}/\text{m}^3$; five of the six exceedences were between 5.1 and 8.1 $\mu\text{g}/\text{m}^3$. At Crystal Ridge, only one sub-slab sample marginally exceeded the screening level for PCE (36 $\mu\text{g}/\text{m}^3$ vs. a standard of 34 $\mu\text{g}/\text{m}^3$ in Building 7), while the indoor air samples from this building for PCE were 5.1 and 7.5 $\mu\text{g}/\text{m}^3$. In three of the samples the indoor air concentration actually exceeded the sub-slab concentration, indicating that the sub-slab vapors could not account for the elevated indoor air concentrations. The highest concentrations of PCE in indoor air were reported in Building 12, which had the second lowest sub-slab concentration of the four Crystal Ridge buildings where indoor air samples were collected. A graphical representation of the comparison of sub-slab soil gas and indoor air TCE results is presented as **Graph 2 in Appendix D**.

PCE is a common indoor air contaminant present in a variety of household products such as metal degreasers, adhesives and glues, and rug cleaners. The lack of correlation between sub-slab levels and indoor levels for PCE, combined with the clear evidence from the TCE results that VI is not occurring, indicates that the indoor air PCE levels are not related to vapor intrusion.

4. There are exceedences of the indoor air screening level for benzene in six of the eight samples (the same six samples with PCE), ranging from 1.6 to 7.7 $\mu\text{g}/\text{m}^3$. Only one sub-slab sample exceeded the screening level for benzene (Crystal Ridge Building 7), and in most cases the indoor air levels exceeded the

sub-slab concentrations. A graphical representation of the comparison of sub-slab soil gas and indoor air benzene results is presented as **Graph 3** in **Appendix D**.

Benzene is not a contaminant of concern for the former LEC site, it has not been reported in ground water samples collected from wells near the site, and it is a common indoor air contaminant in residential and commercial buildings. It is also noted that all of the Crystal Ridge buildings include garages on the ground floor, a potential source of benzene from automobile exhaust. Based on the above, the presence of benzene is not considered to be related to vapor intrusion.

5. There are a few exceedences of the indoor air screening levels for chloroform, 1,2-dichloroethane (1,2-DCA) and p-dichlorobenzene. None of these are contaminants of concern for the former LEC site, all of them are common indoor air contaminants, and none were reported in sub-slab samples at concentrations exceeding the screening levels with the exception of chloroform for Building 3 (168 $\mu\text{g}/\text{m}^3$). Interestingly, the Building 3 sample, which was collected from a utility room with numerous pipe and utility openings, also exhibited the lowest concentration of chloroform in indoor air (an estimated concentration of 0.93 $\mu\text{g}/\text{m}^3$). Although the chloroform is not attributable to the former LEC site, this is notable since the difference between the elevated sub-slab concentration and the extremely low indoor air concentration is further evidence that vapor intrusion is not occurring. Furthermore, the utility room sample from Crystal Ridge Building 3 is the only indoor air sample that reported no exceedences for any indoor air screening level, even though the sub-slab soil gas sample reported one of the highest TCE concentrations at 220 $\mu\text{g}/\text{m}^3$ as well as the chloroform results described above. This result may be due to the fact that it is not a residential space and lacks the household products, furniture, carpet, and other sources of indoor air contamination that have impacted indoor air quality at the other locations. Therefore, it is concluded that these exceedences are not related to vapor intrusion.

To summarize, there is no evidence that contaminants from the former LEC site are impacting indoor air quality at Crystal Ridge or Regency Village, strong evidence that vapor intrusion is not taking place, and the exceedences of indoor air quality that were reported are minor and associated with common household contaminants.

6.2 Recommendations

Based upon the information presented in this VI Investigation Report as well as the information discussed at the October 20, 2011 status meeting between LMC and the NJDEP, the following actions for continued VI investigation work are proposed:

1. VI investigation sampling will be conducted at the Walmart store at the Watchung Square Mall as originally proposed in the August 2010 VI Investigation Workplan. While this work has always been planned to be completed, unexpected delays have been encountered in the development and

acquisition of the access agreement needed to proceed with the sampling. Upon resolution of the access agreement negotiations with the owners of the Walmart building, the VI investigation sampling will be conducted within the lower-elevation warehouse/storeroom area of the building. Two sub-slab soil gas samples from this area will be collected initially. If the results of the sub-slab soil gas sampling exhibit exceedences to the SGSLS, two indoor air samples will be collected at locations proximal to the sub-slab sample locations.

This field work will be scheduled to be conducted as soon as the access agreement is obtained from the owners of the Walmart building.

2. To evaluate the potential seasonal influence on the advective/convective vapor transport conditions at the Site, heating season indoor air sampling shall be conducted at Crystal Ridge Buildings 3, 6, 7 and 12. This confirmation round of air sampling will be performed in the same locations where indoor air sampling was performed in July 2011, and will replicate the sampling protocol that was previously used. This round of sampling will include the collection of one air sample from the ground floor storage unit in Building 3 and one air sample from each of the two ground floor apartment units in Buildings 6, 7 and 12.

This field work is scheduled to be completed in December 2011.

3. Sub-slab soil gas sampling conducted in February 2011 revealed that 7 of the 11 buildings that were sampled (Crystal Ridge Buildings 4, 5, 8, 9, 10, 11 and 14) did not exhibit any sub-slab soil gas concentrations above corresponding SGSLS. Based on these results and in accordance with NJDEP's current VI Guidance of October 2005 and Draft VI Guidance of May 2011, no further VI investigation activities are required or proposed for these locations.

However, as an adjunct to soil gas monitoring at locations that previously exhibited sub-slab soil gas concentrations above corresponding SGSLS, confirmation sub-slab soil gas samples will be collected from Crystal Ridge Buildings 3, 6, 7 and 12. This confirmation sub-slab soil gas sampling will be conducted using the same protocol and techniques employed during the February 2011 sampling activities. In accordance with the original VI Investigation Workplan, temporary sub-slab soil gas sampling points will be constructed in the sidewall of the elevator pit of the identified buildings. Once the sub-slab sample probes are installed, the four soil gas samples will be collected using 6-Liter stainless steel Summa® canisters for subsequent VOC analysis using EPA Method TO-15.

This field work is scheduled to be completed in December 2011.

4. To supplement soil gas monitoring at the Crystal Ridge, sub-slab soil gas samples will be collected from Crystal Ridge Buildings 1, 2, 13, 15 and at the Crystal Ridge Clubhouse, locations that have not been previously sampled.

The proposed soil gas sampling probe placement and construction will follow the same protocol presented in Recommendation 3 above and will include the installation of temporary sub-slab soil gas sampling points in the sidewall of the elevator pit in each of the identified buildings. The five sub-slab soil gas samples will be collected using 6-Liter stainless steel Summa® canisters for subsequent VOC analysis using EPA Method TO-15.

This field work is scheduled to be completed in December 2011.

5. After completion of the soil gas and indoor air sampling activities described above, the analytical data will be evaluated, summarized in tabular form and plotted on site maps for submission to the NJDEP.

As part of the evaluation, the analytical results of the new sub-slab soil gas samples will be compared to the SGSLs, and if found below the SGSLs for the former LEC site contaminants of concern (TCE and its break-down products), no additional sampling (sub-slab or indoor air) will be recommended or proposed at those particular locations. However, if contaminants of concern associated with the former LEC site are detected in a sub-slab soil gas sample in concentrations that exceed the SGSLs, indoor air sampling will be proposed to be completed at that building.

Additionally, it is anticipated that if there is a future need to perform continued soil gas investigation, then that continued monitoring will be conducted through the use of permanent near-slab soil gas sampling probes to be installed at the affected Crystal Ridge Building(s). While the use of near-slab sampling locations may not necessarily be preferred over sampling at locations obtained through direct slab penetration, there exists an unacceptable risk of damage to, and compromise of, the radon migration prevention systems that exist beneath the concrete slabs of all the buildings should the slabs be penetrated directly on an ongoing basis. The permanent sampling points will allow future sampling to occur with significantly less disruption to the building occupants and building management, and also avoids the inherent dangers and safety issues associated with elevator shut-down and entering the elevator pits.

Permanent near-slab soil gas probes will be installed in accordance with the requirements of NJDEP's Draft VI Guidance of May 2011 and Field Sampling Procedures Manual of August 2005. The locations of the proposed permanent monitoring points will be situated within 10 feet horizontally of the building's foundation (two per building), and will be placed in as close proximity as practicable to all previous sub-slab soil gas sample locations. The probes will be installed using direct-push borehole methods. The soil gas probes will be advanced to depths ranging between 5 and 8 feet below grade, corresponding to the range between 2 feet and 5 feet below the depth of the slab. The bottom of the soil gas probes will be advanced into the unsaturated vadose zone to a depth of at least 1 to 2 feet above the local water table. The soil gas probes will be constructed of 1/2" diameter Schedule 40 PVC, with FJT 10 Slot screening

and solid riser. The annular space between the borehole and the screen will be filled with gravel pack (Morie Number 1 or 2 sand) with a minimum 2-foot bentonite seal above the screen, and either a flush mount or above grade surface protective casing set in cement above that. The top of the PVC probe casing will be fit with a PVC ball valve to prevent continuous venting of the probe and to aid in soil gas sample collection.

TABLES

TABLE 5-1
Sub-Slab Soil Gas Sampling Results - February 17-18, 2011
Former Lockheed Electronics Corporation, Boroughs of Watchung and North Plainfield, NJ

Client Sample ID:	NJ Vapor Intrusion Residential Soil Gas Screening Level ¹	SV-3	SV-4	SV-5	SV-6	SV-7	SV-8	SV-DUP ²	SV-9	SV-10	SV-11	SV-12	SV-14
Lab Sample ID:		JA68565-2	JA68565-1	JA68565-3	JA68565-4	JA68565-5	JA68565-6	JA68565-7	JA68565-10	JA68565-11	JA68565-12	JA68565-9	JA68565-8
Date Sampled:		2/17/2011	2/17/2011	2/17/2011	2/17/2011	2/17/2011	2/17/2011	2/17/2011	2/18/2011	2/18/2011	2/18/2011	2/18/2011	2/18/2011
Matrix:		Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
GC/MS Volatiles (TO-15)	Concentration - micrograms per cubic meter (µg/m ³)												
Acetone	160,000	342	584	172	394	442	323	461	254	117	584	158	273
1,3-Butadiene	11	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	41.1	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Benzene	16	1.6 J	1.7 J	ND (0.64)	1.6 J	26	1.4 J	2.0 J	ND (0.64)	2.9	2.1 J	1.7 J	1.5 J
Bromodichloromethane	34	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)
Bromochloromethane	80	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Bromomethane	260	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
Bromoethane	22	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Benzyl Chloride	-	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)
Carbon disulfide	36,000	1.8 J	12	ND (0.37)	17	12	4.7	21	3.1	2.5	20	2.2 J	5.9
Chlorobenzene	2,600	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	3.6 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
Chloroethane	110	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Chloroform	24	168	8.3	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	2.1 J	ND (0.49)	6.3
Chloromethane	4,700	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	1.8	ND (0.43)	ND (0.43)	ND (0.43)
3-Chloropropene	16	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)
2-Chlorotoluene	3,600	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)
Carbon tetrachloride	31	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Cyclohexane	310,000	2.8	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	3.4	4.1	ND (0.59)	ND (0.59)
1,1-Dichloroethane	26,000	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
1,1-Dichloroethylene	11,000	3.1 J	5.2	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
1,2-Dibromoethane	38	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)
1,2-Dichloroethane	20	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
1,2-Dichloropropane	23	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane	-	ND (0.58)	5	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)
Dichlorodifluoromethane	9,100	2.6 J	2.9 J	3.2 J	9.9	2.1 J	2.4 J	2.4 J	2.0 J	3.3 J	2.6 J	2.9 J	2.2 J
Dibromochloromethane	43	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)
trans-1,2-Dichloroethylene	3,600	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)
cis-1,2-Dichloroethylene	1,800	ND (0.52)	0.67 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
cis-1,3-Dichloropropene	-	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
m-Dichlorobenzene	550	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
o-Dichlorobenzene	7,300	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
p-Dichlorobenzene	30	7.8	11	7.2	9	6.6	7.8	9	6.6	ND (0.66)	9	3.4 J	7.2
trans-1,3-Dichloropropene	-	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
Ethanol	-	61.4	144	45	196	230	243	187	203	236	232	68.8	145
Ethylbenzene	53,000	2.1 J	1.8 J	ND (0.48)	ND (0.48)	116	14	4	6.9	2.2 J	2.6 J	2.3 J	3.3 J
Ethyl Acetate	-	23	19	13	51.5	13	32	12	8.6	13	7.6	7.2	4.3
4-Ethyltoluene	-	1.9 J	ND (0.47)	ND (0.47)	ND (0.47)	24	11	3.2 J	7.4	ND (0.47)	3.7 J	2.0 J	2.5 J
Freon 113	1,600,000	ND (0.77)	ND (0.77)	3.7 J	36	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	7.7	3.1 J	22	5.6 J
Freon 114	-	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)
Heptane	-	4.5	3.9	3.3	2.3 J	18	2.3 J	4.1	ND (0.39)	4	6.6	3.2 J	2.9 J
Hexachlorobutadiene	53	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)
Hexane	36,000	4.6	4.2	1.8 J	2.0 J	8.5	2.1 J	3.9	ND (0.31)	3.9	6	3.1	2.6 J
2-Hexanone	-	3.6	2.0 J	1.7 J	ND (0.70)	9	1.6 J	2.7 J	ND (0.70)	ND (0.70)	2.3 J	ND (0.70)	ND (0.70)
Isopropyl Alcohol	-	18	85.8	8.6	41.8	33.9	41.3	30.5	33.7	20	71	31.5	30
Methylene chloride	190	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
Methyl ethyl ketone	260,000	14	25	5.9	12	27	14	24	5.6	5.3	13	11	11
Methyl Isobutyl Ketone	160,000	ND (0.61)	7	ND (0.61)	ND (0.61)	393	7	2.5 J	2.2 J	ND (0.61)	1.8 J	ND (0.61)	1.5 J
Methyl Tert Butyl Ether	78	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	25	ND (0.61)	3.4	ND (0.61)	2.5 J	ND (0.61)	ND (0.61)	ND (0.61)
Methylmethacrylate	-	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Propylene	-	ND (0.65)	5.7	2.1 J	4.1	10	3.3 J	12	1.7 J	7.4	ND (0.65)	7	ND (0.65)
Styrene	52,000	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	94.9	21	3.7	11	ND (0.47)	2.8 J	2.0 J	3.8
1,1,1-Trichloroethane	51,000	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
1,1,2,2-Tetrachloroethane	34	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)
1,1,2-Trichloroethane	27	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
1,2,4-Trichlorobenzene	1,800	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)	ND (3.4)
1,2,4-Trimethylbenzene	-	8.4	4.9	4.5	4.9	75.2	43	17	36	6.4	16	7.4	12
1,3,5-Trimethylbenzene	-	2.2 J	ND (0.54)	ND (0.54)	ND (0.54)	32	15	4.6	11	2.2 J	5.4	2.3 J	3.7 J
2,2,4-Trimethylpentane	-	2.2 J	ND (0.39)	ND (0.39)	ND (0.39)	22	ND (0.39)	2.0 J	ND (0.39)	1.9 J	ND (0.39)	ND (0.39)	ND (0.39)
Tertiary Butyl Alcohol	3,300	2.2 J	2.8	1.7 J	3	9.4	18	3.3	17	1.5 J	2.8	ND (0.49)	2.0 J
Tetrachloroethylene	34	9.5	4.3	1.4	3.9	36	4.1	1.8	2.1	1.2	4.1	4.2	2.5
Tetrahydrofuran	-	ND (0.68)	7.7	ND (0.68)	ND (0.68)	0	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Toluene	260,000	8.3	8.7	6	9	247	19	11	7.9	9.8	7.9	8.3	6.4
Trichloroethylene	27	220	12	5.9	247	11	16	4.7	2.2	11	3.5	37	2.3
Trichlorofluoromethane	36,000	ND (0.73)	ND (0.73)	ND (0.73)	2.8 J	31	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	4.1 J	ND (0.73)	ND (0.73)
Vinyl chloride	13	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Vinyl Acetate	-	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
m,p-Xylene	-	8.7	7.4	6.5	6.1	348	61.2	17	31	7.8	11	9.6	14
o-Xylene	-	4.8	5.6	4	4	138	27	9.1	14	3.4 J	5.6	4.3	7.8
Xylenes (total)	5,500	14	13	11	10	486	88.2	26	45.2	11	17	14	22

1 - NJ Vapor Intrusion Residential Soil Gas Screening Levels according to NJDEP Vapor Intrusion Guidance - Table 1 (rev. March 2007)

2 - Sample SV-DUP is a quality assurance duplicate of sample SV-8

ND - The compound was not detected within the calibration range; the estimated value is shown parentheses.

J - The result is an estimated value less than the quantitation limit but greater than the method detection limit.

Highlighted results exceed regulatory criteria

TABLE 5-2
Indoor Air Sampling Results - July 18-19, 2011
Former Lockheed Electronics Corporation, Boroughs of Watchung and North Plainfield, NJ

Client Sample ID:	NJ Vapor Intrusion Residential Indoor Air Screening Level ¹	BLDG 3 CR	6006 CR	6007 CR	7006 CR	7007 CR	12002 CR	12003 CR	BLDG 26 RV
Lab Sample ID:		JA81330-6	JA81330-7	JA81330-5	JA81330-1	JA81330-2	JA81330-3	JA81330-4	JA81330-8
Date Sampled:		7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011
Matrix:		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
GC/MS Volatiles (TO-15)		Concentration - micrograms per cubic meter (µg/m³)							
Acetone	3300	49.6	231	235	321	328	264	368	148
1,3-Butadiene	1	ND (0.053)	ND (0.053)	ND (0.053)	ND (0.053)	ND (0.053)	ND (0.053)	ND (0.053)	ND (0.053)
Benzene	2	1.6	7.7	2	4.8	5.8	7.3	5.4	3.5
Bromodichloromethane	3	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (1.3)	ND (0.20)	ND (0.20)
Bromoform	5	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
Bromomethane	5	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Bromoethene	2	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Benzyl Chloride	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Carbon disulfide	730	ND (0.10)	0.87	0.44 J	0.87	1.6	0.84	1.2	0.50 J
Chlorobenzene	51	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Chloroethane	2	ND (0.10)	0.25 J	ND (0.10)	0.25 J	0.29 J	ND (0.10)	ND (0.10)	ND (0.10)
Chloroform	2	0.93 J	1.1	4.3	1.7	1.5	3.8	1.8	1.1
Chloromethane	95	ND (0.076)	1.7	2.5	1.9	1.7	1.6	ND (0.076)	1.3
3-Chloropropene	2	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
2-Chlorotoluene	73	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Carbon tetrachloride	3	0.61 J	ND (0.25)	1.2 J	0.82 J	ND (0.25)	ND (0.25)	2.1	ND (0.25)
Cyclohexane	6200	0.62 J	3	1	1.7	2.4	2.8	2.5	1.8
1,1-Dichloroethane	510	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,1-Dichloroethylene	220	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dibromoethane	4	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloroethane	2	ND (0.17)	3.1	0.73 J	1.1	2.5	ND (0.17)	2.7	0.73 J
1,2-Dichloropropane	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,4-Dioxane	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Dichlorodifluoromethane	180	2.3	2.4	12	2.4	2.6	2.3	2.3	2.3
Dibromochloromethane	4	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
trans-1,2-Dichloroethylene	73	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
cis-1,2-Dichloroethylene	36	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
cis-1,3-Dichloropropene	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
m-Dichlorobenzene	11	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
o-Dichlorobenzene	150	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
p-Dichlorobenzene	3	1.7	ND (0.15)	6.6	ND (0.15)	ND (0.15)	ND (0.15)	0.84 J	1.1 J
trans-1,3-Dichloropropene	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Ethanol	-	987 E	1030 E	3900 E	1610 E	416	294	644 E	136
Ethylbenzene	1100	2	17	2.4	14	17	18	17	14
Ethyl Acetate	-	7.2	19	21	29	17	13	19	7.9
4-Ethyltoluene	-	0.59 J	26	1.1	28	29	37	32	31
Freon 113	31000	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	0.77 J	ND (0.26)	ND (0.26)	ND (0.26)
Freon 114	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Heptane	-	1.3	7	2.7	7.8	6.1	6.6	5.7	7.4
Hexachlorobutadiene	5	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)
Hexane	730	1.3	9.2	1.9	4.6	7.8	8.8	6.3	5.6
2-Hexanone	-	0.53 J	1.6	0.78 J	14	2.1	2.1	1.3	1
Isopropyl Alcohol	-	37.1	60.5	209	56.8	38.1	64.4	261	21
Methylene chloride	4	0.83	0.9	1	0.8	0.94	0.94	1.2	2.5
Methyl ethyl ketone	5100	3.5	9.7	7.1	50.4	18	14	11	22
Methyl Isobutyl Ketone	3100	2.3	0.9	1.4	7.8	1.1	0.86	2.8	0.78 J
Methyl Tert Butyl Ether	2	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Methylmethacrylate	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Propylene	-	7.6	ND (0.12)	ND (0.12)	8.8	7	8.6	18	ND (0.12)
Styrene	1000	1.4	1.8	3.5	2	2.2	2.6	3.8	2.6
1,1,1-Trichloroethane	1000	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	0.93 J
1,1,2,2-Tetrachloroethane	3	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,1,2-Trichloroethane	3	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
1,2,4-Trichlorobenzene	36	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
1,2,4-Trimethylbenzene	-	2.3	42	5.4	59.5	51.6	81.1	70.8	66.9
1,3,5-Trimethylbenzene	-	0.59 J	14	1.3	18	18	24	21	20
2,2,4-Trimethylpentane	-	1.1	5.6	1.1	2.8	4.7	6.5	5.6	2.3
Tertiary Butyl Alcohol	66	0.79	25	ND (0.097)	12	35.8	57	29	11
Tetrachloroethylene	3	2.2	7.5	1.4	5.1	7.5	8.1	12	8.1
Tetrahydrofuran	-	0.91	2.9	1.4	2.9	3.5	3.2	2.7	13
Toluene	5100	12	59.5	19	39.9	56.2	61.4	50.5	46
Trichloroethylene	3	0.46	ND (0.18)	0.21	1.2	2.7	0.7	0.47	ND (0.18)
Trichlorofluoromethane	730	1.6	1.7	6.2	2.1	1.6	1.6	1.5	2
Vinyl chloride	1	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)	ND (0.082)
Vinyl Acetate	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
m,p-Xylene	-	6.5	62.1	7.8	55.6	64.3	72.5	66	58.2
o-Xylene	-	2.3	26	2.6	23	28	32	29	25
Xylenes (total)	110	8.7	88.2	10	79.1	92.5	105	95.1	83

1 - NJ Vapor Intrusion Residential Indoor Air Screening Levels according to NJDEP Vapor Intrusion Guidance - Table 1 (rev. March 2007)

ND - The compound was not detected within the calibration range; the estimated value is shown parentheses.

J - The result is an estimated value less than the quantitation limit but greater than the method detection limit.

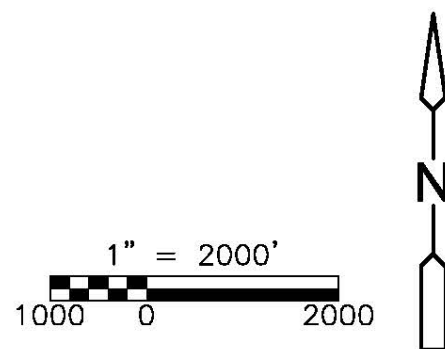
E - The result is an estimated value exceeding the the calibration range.

Highlighted results exceed regulatory criteria

FIGURES



**SOURCE: U.S.G.S. CHATHAM, NJ
7.5 MINUTE QUADRANGLE**



CDM

Camp Dresser & McKee Inc.

SITE LOCATION MAP

FORMER LOCKHEED ELECTRONICS COMPANY, INC.
WATCHUNG, NEW JERSEY

DATE: NOVEMBER 2011

FIGURE: 2-1

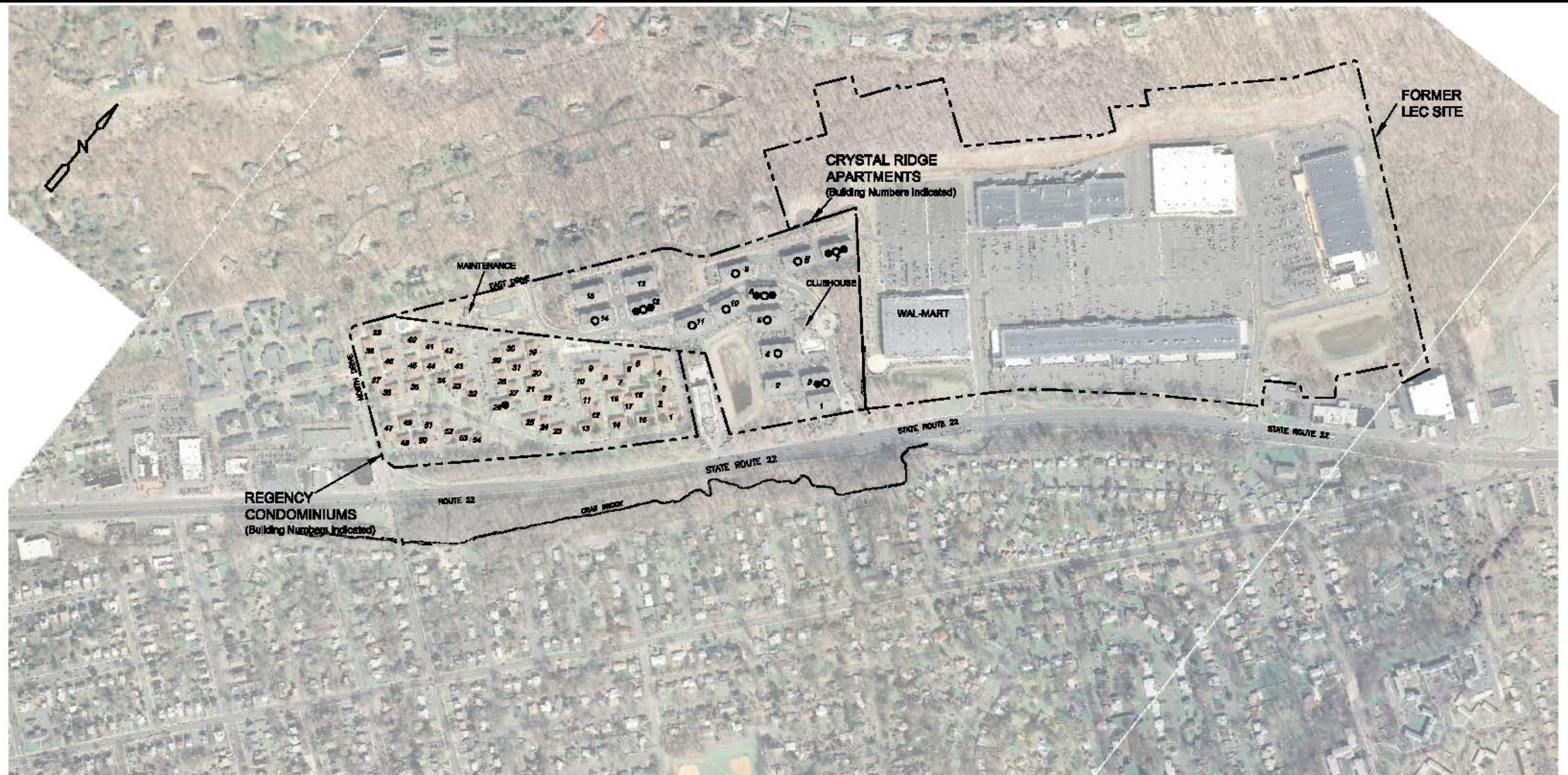


SOURCE: THIS SITE PLAN BASED UPON INFORMATION PROVIDED BY TRC ENVIRONMENTAL CORP., MILLBURN, NJ, AS CONTAINED IN ITS APRIL 2010 SITE PLAN PREPARED FOR FORMER LOCKHEED ELECTRONICS COMPANY, INC.

LEGEND

- ACTIVE MONITORING WELL OR PIEZOMETER
- ▲ SW-1 SURFACE WATER MONITORING LOCATION

1" = 1000'
500 0 1000
APPROXIMATE SCALE



SOURCE: THIS FIGURE BASED UPON INFORMATION PROVIDED BY TRC ENVIRONMENTAL CORP., MILLBURN, NJ, AS CONTAINED IN ITS APRIL 2011 VAPOR INTRUSION INFORMATION MAP PREPARED FOR FORMER LOCKHEED ELECTRONICS COMPANY, INC.

LEGEND

- INDOOR AIR SAMPLE LOCATIONS
- SUB-SLAB VAPOR SAMPLE LOCATIONS

1" = 400'
200 0 400
APPROXIMATE SCALE

APPENDIX A

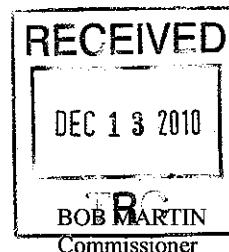
Approved Vapor Intrusion Investigation Workplan



State of New Jersey

CHRIS CHRISTIE
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION



KIM GUADAGNO
Lt. Governor

**Bureau of Operation Maintenance & Monitoring
BOMM**

401 East State Street
PO Box 420 Mail Code 401-06
Trenton, NJ 08625-0413
Phone #: 609-984-2990
Fax #: 609-633-2360

December 9, 2010

Stephen Tappert
TRC
57 E Willow St
Millburn, NJ 07041

Vapor Intrusion Remedial Investigation Work (VIRIW) Approval

Re: VIRIW/GWRAPR Dated: August 26, 2010 (via email)
Lockheed Electronics Co Inc
1501 Rte 22
Watchung Boro, NJ 07061
SRP PI# 004334 EA ID #: SUB090003

Dear Mr. Tappert:

The New Jersey Department of Environmental Protection (Department) has completed review of the VIRW referenced above. The Department has determined that the VIRW is in compliance with the Technical Requirements for Site Remediation, N.J.A.C. 7:26E and other applicable requirements.

Pursuant to the schedule applicable to the site you shall submit the results of the VIRW and a proposal for additional investigation if warranted by April 1, 2011. Please submit the document by that date, or submit a written request for an extension at least 2 weeks prior to the due date. For your convenience, the regulations concerning the Department's remediation requirements can be found at <http://www.state.nj.us/dep/srp/regs/>.

Thank you for your cooperation in this matter. If you have any questions, call me at (609) 292-1945.

Sincerely,

A handwritten signature in cursive script, reading "Mark R. Souders". The signature is written in dark ink and is positioned above the printed name.

Mark R. Souders, Site Manager
BOMM

C: Mark R. Souders, BOMM
Renee' Bancroft, BGWPA
Chris Lacy, BEERA

CASE NO. E90038

DRAFT

REVISED VAPOR INTRUSION INVESTIGATION WORKPLAN
FORMER LOCKHEED ELECTRONICS COMPANY
WATCHUNG, NEW JERSEY

TRC JOB NO. 2542-116473.0000

prepared by:

TRC Environmental Corporation
57 East Willow Street
Millburn, New Jersey 07041

August 2010

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CASE NO. E90038

VAPOR INTRUSION INVESTIGATION WORKPLAN

**FORMER LOCKHEED ELECTRONICS COMPANY
WATCHUNG, NEW JERSEY**

1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has prepared this Revised Vapor Intrusion (VI) Investigation Workplan to define proposed investigation activities to investigate the potential for VI conditions to exist in the vicinity of the former Lockheed Electronics Company (LEC) property (currently the Watchung Square Mall) (Site) located on Route 22 in the Boroughs of Watchung and North Plainfield, Somerset County, New Jersey (Figures 1 and 2). The VI Investigation Workplan has been prepared in accordance with the New Jersey Department of Environmental Protection's (NJDEP's) VI Guidance of October 2005 and the Technical Requirements for Site Remediation (N.J.A.C. 7:26E) (TRSR).

In their July 2009 *Remedial Action Progress Report*, TRC presented an evaluation of the potential for elevated vapor exposure within structures near the Site's ground water contaminant plume. This evaluation included an evaluation of the known or suspected Site-specific contaminant source, contaminant migration pathways, potential human receptors and the exposure routes by which these receptors may come in contact with contaminants on a site-specific basis. The evaluation concluded that the potential for VI to occur and to result in unacceptable indoor air quality in structures nearest to the Site exists, and that further investigation is warranted. As such, this workplan focuses on the structures present nearest to the ground water plume source area at the Site (MW-549 cluster, as shown on Figure 2). Pending the results of investigation activities proposed in this workplan, additional VI investigation activities may be warranted to address other structures identified within the proximity of the LEC site's shallow ground water plume.

This workplan discusses the proposed sampling locations and sampling methods for the VI investigation, and is organized as follows: Background Site information is summarized in Section 2.0; an overview of the proposed investigation activities is presented in Section 3.0, and the proposed VI investigation schedule is presented in Section 4.0.

2.0 BACKGROUND INFORMATION

2.1 Site Location and Description

The Site is a parcel of land approximately 80 acres in size located on the north side of US Route 22 in the boroughs of Watchung and North Plainfield, Somerset County, New Jersey. Following cessation of activities at the Site by LEC, it was re-developed as the Watchung Square Mall. Figure 1 provides a map showing the location of the Site on a United States Geologic Survey (USGS) 7.5-minute series topographic map (Chatham, NJ quadrangle), and depicts the Site's location, local topography, surface drainage patterns.

The Site is located in a mixed residential and commercial area. The Route 22 strip borders the Site to the south, and is predominately commercial with residential properties located on side streets and mapped wetlands in drainage areas. An apartment complex (Crystal Ridge Club), and a condominium complex (Regency Village) are located west of the Site. Forested areas and residences border the Site to the north, and commercial properties border the Site to the east.

2.2 Physical Setting

2.2.1 Topography, Surface Water, and Wetlands

As shown on Figure 1, the Site ranges in elevation from 140 to 320 feet above mean sea level, and slopes from the First Watchung Mountain, located to the northwest of the Site, to US Route 22, located southeast of the Site.

Figure 2 provides a map showing the Site, and the Site's monitoring well network located both onsite and to the south and east of the Site. As shown on Figure 2, the closest surface water body is Crab Brook. Within 1 mile of the Site, wetlands areas have been mapped by the NJDEP in locations immediately north of the Site, and south of the Site along US Route 22.

2.2.2 Geology

The overburden at the Site is generally composed of construction fill associated with the remediation area of former LEC Building #3, a sandy outwash deposit, and a thin layer of glacial till. In the vicinity of the Site, the thickness of the overburden decreases towards the south-southwest but increases south of Crab Brook. The overburden was thinnest at well cluster MW-546 (3 feet) and generally increases south of US Route 22 with the greatest thickness of 47 feet observed at well cluster MW-542.

Below the overburden deposits is the Passaic Formation, a reddish-brown siltstone of Jurassic age. The upper surface of the bedrock is generally weathered and soft, and becomes more competent with depth. Bedrock surface topography generally slopes to the southeast parallel to the First Watchung Mountain. The highest bedrock elevation is approximately 138 feet above sea level at well cluster MW-548 and the lowest is approximately 53 feet above sea level at wells P-524 and MW-542.

2.2.3 Hydrogeology

Ground water at the Site occurs within the bedrock, and locally within the overburden. Within the bedrock aquifer, contaminant migration is influenced by both bedrock structure and local ground water discharge areas, particularly Crab Brook. The ground water in the bedrock enters

the Site from the easterly direction, moves across the site to the southwest (along the strike direction of regional bedrock bedding), and then trends in a more southerly direction toward Crab Brook and beyond.

At monitoring well cluster MW-549 (at the Site), the depth to ground water is approximately 55 feet below grade. At monitoring well cluster MW-550 (at the Regency Village, located topographically and hydrogeologically downgradient of the Site), the depth to ground water is approximately 23 feet below grade. While no monitoring wells are present at the Crystal Ridge Club, the depth to ground water beneath the apartment complex is expected to be between 23 and 55 feet below grade.

Ground water in the shallow water table zone flows across the Site under an average horizontal gradient of 0.002 feet per foot (ft/ft). Ground water gradients in the shallow system steepen significantly (up to 0.018 ft/ft) southwest of the Site.

2.3 Site Ownership History and Facility Operations

The site was originally developed in 1953 by Stavid Engineering. Lockheed Corporation acquired Stavid Engineering in 1959 and created Lockheed Electronics Corporation, which was subsequently operated by Sanders, A Lockheed Martin Company (Sanders). Additional land acquisitions resulted in the current Site boundaries. The site was used to manufacture, assemble, and test electronic components. Trichloroethene (TCE) was used in Building 7 (near the MW-549 well cluster) as a solvent to clean circuit boards. Site operations ceased in 1989.

2.4 Environmental Investigation History

The cessation of Site activities in 1989 triggered a site investigation under the New Jersey Environmental Cleanup Responsibility Act (ECRA) (superseded by the Industrial Site Recovery Act [ISRA]). The initial investigations identified several areas of concern (AOCs) and included collection of soil, sediment, ground water, and surface water samples. Investigation and remedial action results have been documented in a series of reports submitted to the NJDEP since 1991. Soil AOCs contained volatile organic compounds (VOCs), primarily TCE, as well as fuel oil, and were addressed either through excavation and off-site disposal or soil vapor extraction, and site-wide soil remediation has been completed to the satisfaction of the NJDEP.

Early investigation activities identified a TCE ground water plume emanating from the Site. An extensive monitoring well network has been installed to delineate and monitor the plume. There are currently more than 40 active monitoring wells and piezometers associated with this project in the Boroughs of Watchung and North Plainfield, all of which are installed as either well couplets or triplets to evaluate the vertical distribution of contaminants. Ground water monitoring activities are ongoing in accordance with the Site's NJDEP-approved monitoring schedule.

Historic surface water sampling additionally identified that ground water from the ground water plume provided base flow to Crab Brook, and historically resulted in measurable impact to surface water quality between North Avenue (Norwood Avenue) and Watchung Avenue. Four active surface water locations are established to monitor the surface water of Crab Brook. Surface water monitoring activities are ongoing in accordance with the Site's NJDEP-approved monitoring schedule.

To remediate the ground water plume and intercept ground water base flow to Crab Brook, the Site's ground water extraction system (GWES) was activated on July 17, 2003. Ground water is pumped from extraction well RW-1, located on North Drive in North Plainfield, at an approximate rate of 120 gallons per minute (gpm). The GWES has worked almost continuously from start-up and has functioned as designed, providing control of the bedrock ground water plume and intercepting ground water base flow prior to its reaching Crab Brook.

2.5 Well Search

As part of the Site's most recent ground water Classification Exception Area (CEA) biennial certification (submitted March 2009), TRC completed a NJDEP Bureau of Water Allocation 1-mile radius well records search and a computerized 5-mile radius search of water allocation permitted wells. The recent well search results were reviewed by TRC in order to identify all potentially active wells within a 1-mile radius of the Site. The well records generated during this search show that a total of 82 wells are located within one mile of the Site as follows: one domestic well, two industrial wells, and 79 monitoring wells. The domestic well and one of the industrial wells identified in the well records search are located either sidegradient or upgradient of the Site's TCE plume, and are not within the plume area. The second industrial well was located on the Crystal Ridge Club property prior to the construction of this apartment complex, and was likely abandoned or lost during the redevelopment of the property.

2.6 Baseline Ecological Evaluation

A Baseline Ecological Evaluation (BEE) was conducted at the Site during February 1999 by Environmental Management Group, Inc. and Sevee and Maher Engineers, Inc. The BEE concluded that there was no measurable acute effect on aquatic species in Crab Brook from the inflow of the former LEC site plume containing TCE. The NJDEP approved the BEE in the August 9, 1999 letter concluding that no further ecological evaluation with regard to Crab Brook was required.

2.7 Contact Information

The following is a list of the applicable contact information. Note that TRC is the lead responsible party pursuant to a Remediation Agreement executed in 2001.

	Mailing Address	Representative
Lead Responsible Party/ Consultant TRC Environmental Corp.	57 East Willow Street Millburn, NJ 07041	Stephen E. Tappert 973.564.6006 x 240 Scott McCray x 287
Current Site Owner/Operator Watchung Square Assoc., LLC	641 Shunpike Road Chatham, NJ 07928	Al Tafro 973.966.2800
Former Site Owner Lockheed Electronics Corp.	6801 Rockledge Drive MP CCT 246 Bethesda, MD 20817	Chuck Trione (301) 548-2223

3.0 PROPOSED VAPOR INTRUSION INVESTIGATION

The TRSR and NJDEP guidance require a vapor intrusion investigation when a shallow ground water plume containing TCE concentrations that exceed the NJDEP's vapor intrusion ground water screening level (GWSL) is identified within 100 feet of a structure. As a part of the required vapor intrusion investigation, the TRSR additionally requires the identification of all structures located within 200 feet of shallow ground water containing TCE concentrations that exceed the NJDEP's vapor intrusion GWSL. As such, the extent of the shallow TCE ground water plume, and the locations of structures within 100 and 200 feet of this plume are shown on Figure 3 and summarized in Table I.

As described in Section 1.0, the focus of this workplan is to initiate a vapor intrusion investigation of the structures located nearest to the Site's ground water plume source area (monitoring well cluster MW-549), as described in the following subsections. Pending the results of this investigation, additional investigation activities addressing structures located at greater distances from the ground source area within the shallow ground water plume may also be warranted, and will be proposed under separate cover.

3.1 Area of Investigation

To assess the potential for VI to be occurring from the Site's shallow ground water plume into nearby structures near to the ground water plume source area, one structure at the Watchung Square Mall (Wal-Mart store) and one adjoining property (the Crystal Ridge Club, a residential apartment complex located adjacent to the southern boundary of the former LEC property) have been selected for VI investigation activities. Due to their proximity of these structures to the ground water plume source area, the Wal-Mart and the Crystal Ridge Club structures are the structures that have the highest potential for VI to occur. The locations of the Wal-Mart and the Crystal Ridge Club relative to the Site and the shallow ground water plume source area (monitoring well cluster MW-549) are shown on Figure 3.

The Wal-Mart is a retail store covering an area of approximately 114,000 square feet in area. The store is constructed on a hill side, where a portion of the retail store is underlain by a warehouse/storeroom area, and the remainder of the retail store is located on a floor slab that is elevated (uphill) of the warehouse/storeroom area. Since the warehouse/storeroom area is lower in elevation, and therefore vertically closer to the shallow ground water plume, this area has been selected as the area to be assessed for potential vapor intrusion conditions.

The Crystal Ridge Club is an apartment complex consisting of fifteen residential buildings, a club house, and a maintenance building. Each of the fifteen residential buildings contains between 22 and 24 apartment units, and is identified by a building number (1 through 15), as shown on Figure 3. The fifteen residential buildings are subdivided based on their floor plans into five different building types (Types A, B, C, D, and D Option E). Building type A (Building 1), building type B (Buildings 2 and 3), and building type C (Buildings 4, 5, 13, and 15) have no ground floor apartment units, whereas building type D (Buildings 6 through 11) and type D option E (Buildings 12 and 14) each contain 2 ground floor apartment units. Available ground level floor plans for the building types are located in Appendix A

During a meeting at the Crystal Ridge Club on March 3, 2010, representatives of the Crystal Ridge Club ownership reported to TRC that the each of the apartment complex buildings incorporated a passive radon mitigation system into their construction. Each of the radon

mitigation systems reportedly consists of a membrane installed beneath the poured concrete floor slab, and connected to two vent pipes (one located at each end of the building) that vent to the atmosphere at the roofline of the building. At some locations, the vent pipes are exposed (inside garage spaces), and marked “radon”. However, no plans or ‘as-built’ drawings of this passive radon mitigation system are available for review.

3.2 Access Negotiation

To complete VI investigation activities at the Wal-Mart and the Crystal Ridge Club, it will be necessary to negotiate an access agreement with the Wal-Mart and the Crystal Ridge Club property owners. These discussions have been initiated and are ongoing. For purposes of this VI Investigation Workplan, it is assumed that access to the Wal-Mart and the Crystal Ridge Club to complete VI investigation activities will be granted.

3.3 Proposed Sub-Slab Soil Gas Sampling Activities

To determine if vapors associated with VOC-impacted ground water are migrating through subsurface soils and accumulating beneath the building slab at the Wal-Mart or the Crystal Ridge buildings, a total of 13 soil vapor samples will be collected. Two sub-slab soil vapor samples will be collected from locations at the Wal-Mart. Additionally, one sub-slab soil vapor sample will be collected from a total of eleven Crystal Ridge buildings (Buildings #3 through #12, and #14). To minimize the potential for damage to the passive radon mitigation system beneath the floor slabs of the Crystal Ridge Club buildings, sub-slab soil vapor samples at the Crystal Ridge buildings will be collected through holes drilled laterally through the concrete walls of each building’s elevator pit, at a depth of approximately 2 feet below floor level. Prior to sampling activities, each elevator will be taken out of service using lock-out, tag-out procedures, to ensure the safety of the sampling team. Proposed sub-slab soil gas sample locations are shown on Figure 3. Final soil gas sample locations will be determined following access negotiations based on facility-specific building constructions and access restrictions.

All sub-slab soil gas samples will be collected in 1-Liter certified clean SUMMA canisters equipped with flow regulators to collect soil gas over a 5 to 30-minute period. A duplicate sub-slab soil gas sample will also be collected for quality assurance/quality control (QA/QC) purposes. Following collection, all sub-slab soil gas samples will be submitted to a NJDEP-licensed laboratory and analyzed for VOCs only using USEPA method TO-15, and all drilling locations will be restored with concrete patch.

3.4 Proposed Indoor Air Sampling Activities

Immediately prior to sub-slab soil gas sample collection, indoor air samples will be collected at the Wal-Mart and Crystal Ridge buildings to determine if vapors that may be present beneath the building slabs are present within the indoor air. At the Wal-Mart, two indoor air samples will be collected at locations proximal to the sub-slab sample locations. At the Crystal Ridge buildings, one indoor air sample will be collected from each of the ground floor apartments at the Crystal Ridge Club (Buildings #6 through #12, and Building #14), and one indoor air sample will be collected from three additional structures (Buildings #3 through # 5). Proposed indoor air sample locations are shown on Figure 3. Final sample locations will be determined following access negotiations based on facility-specific building constructions and access restrictions.

Concurrently with indoor air sampling at each location, TRC will perform a survey of each structure to be sampled to determine the presence of commonly stored or used materials and products, such as paints, cleaners, and degreasers, that may interfere with indoor air results or potentially produce false positive analytical results. Additionally, if the owner/operator or apartment tenant is present during TRC's survey, instructions will be given to the owner/operator or apartment tenant concerning commercial/household materials and activities that have the potential to influence the indoor air sample results, and a copy of the VI Guidance Appendix C (Instructions for Occupants – Indoor Air Sampling Events) will be distributed as a reference.

Indoor air samples at Crystal Ridge will be collected in 6-Liter certified clean SUMMA canisters equipped with flow regulators to collect air over a 24-hour period. Indoor air samples collected at Wal-Mart will be collected over an eight-hour period based upon commercial use of the building. Following collection, all indoor air samples from Crystal Ridge will be submitted to a NJDEP-licensed laboratory and analyzed for VOCs using USEPA method TO-15. Analysis of the samples from Wal-Mart will be contingent upon detections of site contaminants at concentrations exceeding screening levels in the sub slab samples.

3.5 Data Validation/Evaluation/Management

Upon receipt of laboratory results, TRC will evaluate these data for accuracy and validity. These data will be summarized in tabular form and plotted on site maps for submission to the NJDEP. As required by NJDEP, all analytical data will be submitted in hard copy and in an electronic deliverable format which adheres to the guidelines specified in the NJDEP Site Remediation Program Electronic Data Interchange Manual.

3.6 Reporting

Following the completion of all field activities proposed in this VI Investigation Workplan and receipt of the analytical results, TRC will prepare a VI investigation report consistent with the requirements of the TRSR. The report will include a summary of historic VI sampling activities, a technical overview of the investigation program including methods and techniques employed, present and discuss the analytical results of the program (including tables and figures as warranted), and provide conclusions and recommendations. The completed VI investigation report will be submitted to the NJDEP for review and comment.

4.0 QUALITY ASSURANCE PROJECT PLAN

Pursuant to the NJDEP TRSR (N.J.A.C. 7:26E-2.2), the following subsections describe Quality Assurance Project Plan (QAPP) components to be employed for this project.

4.1 Project Quality Objectives

The objective of this investigation is to comply with the NJDEP TRSR (N.J.A.C. 7:26E), and to define the nature and extent of contamination in soil gas and indoor air;

4.2 Project Team Responsibilities

This section identifies the contact information and the responsibilities of management, quality assurance (QA), field and laboratory personnel involved with this project.

Personnel	Role	Organization	Telephone No.	Responsibilities
Stephen E. Tappert	Principal-In-Charge & Project Manager	TRC	973-564-6006 (x240)	Oversees technical aspects of project and primary contact with NJDEP for technical matters. Manages project and coordinates with field team.
Scott McCray	Project QA Manager	TRC	973-564-6006 (x287)	Provides QA oversight and technical assistance to field team, communicates with Project Manager/Principal In Charge
Martin MacDonald	Field Team Manager / Site Safety Officer	TRC	973-564-6006 (x281)	Supervises field sampling and coordinates all field activities, communicates with Project Manager
Matt Cordova	Lab Project Manager	Accutest	732-329-0200	Oversees project in laboratory and laboratory staff adherence to Standard Operating Procedures; maintains contact with TRC

Analyses will be performed by the following New Jersey-certified laboratory:

Laboratory	NJDEP Certification No.	Analyses to be Performed
Accutest Laboratories 2235 Route 130 Dayton, NJ 08810 732-329-0200 Contact: Matt Cordova	12129	United States Environmental Protection Agency Method TO15

4.2.1 Management Responsibilities

Principal-in-Charge

The Principal-in-Charge will serve as the primary point of contact to the NJDEP for technical matters as they relate to the project plans and regularly communicate with the QA Manager and Field Team Manager. Other duties (as required) will include:

- Assisting with project task scoping,
- Assuring that approved procedures meet project objectives,
- Coordinating field and office activities with the Project QA Manager and Field Team Manager,
- Implementing recommendations made by Project QA Manager,
- Initiating corrective actions,
- Monitoring schedules for field, analytical and data validation activities associated with the field sampling and office activities, and
- Reviewing and editing key technical deliverables.

Project Manager

The Project Manager will communicate directly with Project QA Manager and Field Team Manager. The Project Manager will ensure that all the technical, administrative, and regulatory compliance objectives are met on a day-to-day basis. Other duties (as required) will include:

- Assuring adherence to project plans and obtaining approvals for any changes to these plans,
- Assigning duties to project staff and orienting the staff to the specific needs and requirements of the project,
- Assisting in the coordination of all field tasks, communications, reports, and technical reviews, and other support functions, and facilitating activities with the technical requirements of the project,
- Scheduling and coordinating field and office activities with the Principal-in-Charge, Project QA Manager, and Field Team Manager,
- Implementing recommendations made by Project QA Manager,
- Monitoring schedules for field, analytical and data validation activities associated with the field sampling program,
- Ensuring the successful completion of the project in terms of budget, schedule, and data quality objectives,
- Interpreting site data and providing input into the development and finalization of key technical deliverables, and
- Maintaining project file.

4.2.2 Quality Assurance Responsibilities

Project QA Manager

The Project QA Manager has the overall responsibility for quality assurance oversight. The Project QA Manager will communicate directly with the Principal-in-Charge, the Project Manager and the Field Team Manager. Specific responsibilities include:

- Reviewing and approving QA procedures,
- Assuring adherence to the QAPP and documenting any approved changes to the project plans,
- Ensuring that QA audits of the various project phases are conducted as required,
- Providing technical QA assistance to project staff,
- Following up on corrective actions,
- Ensuring that data collection is conducted in accordance with the QAPP, and
- Reporting on the adequacy, status and effectiveness of the QA program to the Project Manager.

4.2.3 Field Responsibilities

Field Team Manager/Site Safety Officer

The Field Team Manager and Site Safety Officer has the overall responsibility for the completion of all field activities in accordance with the QAPP and the other project plans and is the communication link between the field team, subcontractors, and TRC project management. Specific responsibilities include:

- Understanding and implementing the QAPP,
- Mobilizing and demobilizing the field team and subcontractors to and from the Site,
- Coordinating activities in the field,
- Assigning specific duties to field team members,
- Ensuring site security and access,
- Overseeing and coordinating field data collection in accordance with this VI Investigation Workplan,
- Resolving logistical problems that could hinder the implementation of field activities or meeting specific data quality objectives, including equipment malfunctions, weather-dependent working conditions or personnel conflicts,
- Implementing field quality control procedures including issuing and tracking of measurement testing equipment, the proper labeling, handling, storage and shipment of samples, chain-of-custody procedures, and control and collection of field documentation,
- Summarizing and interpreting site data,
- Providing input into the development and finalization of key technical deliverables,
- Ensuring that all field activities are being implemented in accordance with the Health and Safety Plan (HASP),
- Evaluating new hazards and operation changes when necessary, and
- Correcting all HASP non-compliance situations immediately and stopping work in cases of immediate danger.

Field Staff

The Field Staff will report directly to the Field Team Manager. The responsibilities of the field team include:

- Understanding and implementing the QAPP requirements as they relate to their specified duties,

- Collecting samples and field measurements and decontaminating equipment in accordance with NJDEP guidance and the documented procedures stated in the QAPP,
- Ensuring that field instruments are properly calibrated, operated, and maintained and that adequate documentation is maintained for all instruments,
- Collecting the required QA samples and documenting the QA sample collection details,
- Ensuring that field documentation are complete, legible and accurate, and
- Documenting and communicating any non-conformance or potential data quality issues to the Field Team Manager.

4.2.4 Laboratory Responsibilities

Laboratory Manager

The Laboratory Manager is ultimately responsible for the data produced by the laboratory. Specific responsibilities include:

- Implementing and adhering to QA and corporate policies and procedures with the laboratory,
- Approving Standard Operating Procedures (SOPs),
- Maintaining adequate staffing and equipment, and
- Reviewing internal/external audits findings and implementing corrective actions.

Laboratory QA Manager

The Laboratory QA Manager reports directly to the Laboratory Manager. Specific responsibilities include:

- Approving the laboratory SOPs,
- Ensuring and improving quality within the laboratory,
- Supervising and providing guidance and training to laboratory staff,
- Addressing all client inquiries involving data quality issues,
- Performing QA audits and assessments,
- Tracking internal and external findings of QA audits, and
- Coordinating laboratory certification and accreditation programs.

Laboratory Project Manager

The Laboratory Project Manager is the primary point of contact between the laboratory and TRC. Specific responsibilities include:

- Maintaining communication with the client and laboratory staff on project status,
- Monitoring, reviewing and evaluating the progress and performance of projects,
- Reporting client inquiries involving data quality issues or data acceptability to Laboratory QA Manager and the operations staff, and
- Reviewing data packages for completeness and compliance to client requirements/specifications.

Laboratory Analyst/Technician

Each analyst or technician is responsible for:

- Evaluating instrument performance
- Performing technical procedures and data recording in accordance with documented procedures,
- Performing and documenting calibration and preventative maintenance,
- Performing data processing and data review procedures,
- Reporting non-conformance to the Laboratory Manager or other appropriate personnel, and
- Ensuring sample and data integrity by adhering to internal chain-of-custody procedures.

Laboratory Sample Custodian

The Sample Custodian ensures the implementation of proper sample receipt procedures, including maintenance of the chain-of-custody. Other responsibilities include:

- Notifying the Laboratory Project Manager of any discrepancies or anomalies with incoming samples,
- Logging samples into the laboratory tracking system,
- Ensuring that all samples are stored in the proper equipment , and
- Overseeing sample disposal.

4.3 Sample Collection and Documentation

All VI Investigation activities to be conducted will be consistent with the TRSR and the NJDEP Field Sampling Procedures Manual (2005) and the NJDEP VI Guidance document. Specific sample collection details and requirements for all environmental and quality assurance samples identified in this VI Investigation Workplan will be complied with during program execution. A record of all field observations and procedural methodologies will be kept in field logbooks throughout the duration of the field effort. The logbooks will be bound field survey books or notebooks. The TRC field team will review all field notes recorded each day for legibility, accuracy and completeness. Each completed field note page will include the date, names and affiliation of personnel on-site, chronology of activities including entry and exit times, weather conditions, level of personnel protection, site observations, field equipment measurements, sampling details, sketches and diagrams, information pertaining to photographs collected, page number and the signature of the author. All instructions given by the Project Manager and other field decisions related to the additional delineation sampling will be recorded in the field logbook (e.g., sampling rationale, new sampling identification numbers, analytical parameters). Large site maps will be maintained in the field headquarters, and all sampling locations will be marked in the field and hand-plotted on these maps each day.

4.4 Sample Handling and Custody Requirements

The TRC Field Team personnel will coordinate with the laboratory for shipment and receipt of SUMMA canisters, flow regulators, and chain-of-custody forms. After collection of each sample, the chain-of-custody will be filled out and returned with the samples to the laboratory. An important consideration for the collection of environmental data is the ability to demonstrate

that the analytical samples have been obtained from pre-determined locations and that they have reached the laboratory without alteration. Evidence of collection, shipment, laboratory receipt, and laboratory custody until disposal must be documented to accomplish this. Documentation will be accomplished through a chain-of-custody form that records each sample and the names of the individuals responsible for sample collection, transport, and receipt. Sample custody will be initiated by field personnel upon collection of samples. Sample labels will be securely affixed to each sample container. Sample labels will clearly identify the particular sample, and include the following information:

- Site name and designated project number;
- Sampling location;
- Sample matrix (media type)
- Unique sample identification number;
- Date and time the sample was collected;
- Sample preservation method (if appropriate);
- Sample pH (if appropriate);
- Analytical Method requested; and
- Laboratory Turnaround (standard or expedited).

The TRC field personnel will package all SUMMA canisters to minimize the potential for canister damage or leakage. SUMMA canisters will then be either delivered to the laboratory by a laboratory sample courier or directly transported by TRC vehicle. The chain-of-custody will be carefully reviewed by TRC field personnel and compared with the contents of the accompanying shipment to confirm the accuracy of the custody record. Each individual who has the samples in his or her possession will sign the chain-of-custody record. The original chain-of-custody record will be sealed in a watertight envelope, taped to the top (inside) of the shipping container, and the shipping container sealed prior to being given to the laboratory sample courier. A copy of the chain-of-custody record will be kept on-site. Upon delivery at the laboratory, the laboratory sample custodian (or designated laboratory technician) will take possession of the samples. The sample custodian will open the shipping container(s), verify that the custody tape is intact, examine all sample containers for damage, compare the container contents with the chain-of-custody, verify that the holding times have not been exceeded, record, and sign and date the chain-of-custody record. The sample custodian will record any discrepancies or problems on the chain-of-custody record and notify the Laboratory Project Manager, who will subsequently notify the TRC QA Manager. In addition, the sample custodian will notify the Laboratory Project Manager of the sample arrival. The sample custodian will attach labels with a unique laboratory identification to each sample container and place them in proper laboratory storage. The samples will be entered into the electronic laboratory tracking system with all pertinent information including lab tracking number, project name, TRC sample identification, type of sample media, required test, data and time of lab receipt of samples, and sample collection time and date. Evidence of the chain-of-custody and additional documentation will be placed in the final evidence file maintained by the laboratory.

4.5 Sample Quality Assurance and Quality Control

A New Jersey-certified laboratory will provide all sample containers for all environmental and quality assurance samples to be collected. As required, duplicate samples and ambient air blanks will be collected during the sampling event for the same analytical parameters being proposed to

assess and validate the quality of data generated. The table below summarizes the sampling program for all environmental and quality assurance samples to be collected.

Analytical Methods / Quality Assurance Summary Table

Matrix	Analysis	Number of Samples (estimated)	Field Duplicates	Trip Blanks	Field Equipment Blanks	Sample Volume/ Container (number, size and type_	Preservation	Maximum Holding Time (prep/analysis)	Analytical Method
Vapor (Soil Gas)	Volatile Organics (TO15)	13	1	0	0	1-liter SUMMA canister	Maintain Canister Under Vacuum	30 Days from date SUMMA placed under vacuum	USEPA Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry Method TO15 SIM
Vapor (Indoor Air)	Volatile Organics (TO15)	21	1	0	1 (Ambient Blank)	6-liter SUMMA Canister	Maintain Canister under vacuum	30 Days from date SUMMA placed under vacuum	USEPA. Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry .Method TO15 SIM

4.6 Field Equipment Maintenance

4.6.1 Field Equipment Calibration

All field equipment will be calibrated in accordance with the manufacturer's instructions (using specific reference materials and test procedures). Any equipment which provides unusual responses or questionable results will be re-calibrated or replaced to ensure satisfactory equipment performance. The TRC sampling team will record the daily field equipment calibration activities in the field logbook with a clear description of equipment type, manufacturer name and identification number, calibration test performed and results, time and date.

4.6.2 Field Equipment Decontamination

All disposable, dedicated sampling equipment will be used only once and discarded after sampling. SUMMA canisters and flow regulators will be supplied by the laboratory, and will be decontaminated, evacuated, and prepared for sample collection by the laboratory in accordance with the NJDEP's October 2005 VI Guidance document

4.7 Laboratory Deliverables

Upon receipt of laboratory results, TRC will evaluate these data for accuracy and validity. As required by NJDEP (N.J.A.C. 7:26E-3.13), all analytical data will be submitted in hard copy and in an electronic deliverable format which adheres to the guidelines specified in the NJDEP Site Remediation Program Electronic Data Interchange Manual. In accordance with these requirements, TRC will complete the electronic dataset files for the individual laboratory data sets generated and include this on a diskette(s) with the report submittal to the NJDEP. The electronic dataset files specify all required fields and valid entries. Prior to submittal, the files will be checked by running the NJDEP's Electronic Data Submission Application on them which will eliminate many of the most common errors and includes some administrative checks. In

addition, these data will be summarized in tabular form and plotted on site maps for submission to the NJDEP.

5.0 HEALTH AND SAFETY PLAN

As required by N.J.A.C. 7:26E-1.9, 1.10 and 4.2, a site-specific Health and Safety Plan (HASP) was developed for the proposed field activities described in the VI Investigation Workplan. Appendix B contains the complete HASP for the Site.

The purpose of the HASP is to establish requirements for protecting the health and safety of personnel from possible exposure to potentially hazardous substances during the implementation of the RI activities. The HASP has been developed to establish the health and safety procedures required to minimize any potential risk to personnel performing certain activities at the Site. The HASP is written to meet the requirements of all applicable federal, state and local health and safety regulations, including the Occupational Safety and Health Administration (OSHA), Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard (29 CFR 1910.120) and is based on current knowledge regarding the specific chemical and physical hazards that are known or anticipated at the Site.

The provisions of the HASP (Appendix B) apply to all on-site personnel and visitors who may potentially be exposed to health and/or safety hazards related to specific RI activities at the Site. All activities will be conducted in accordance with this plan. Personnel and visitors who cannot or will not comply with this HASP will be excluded from on-site activities.

Daily safety meetings will be held at the start of each work shift to ensure that all personnel understand site conditions and operating procedures, that personal protective equipment (PPE) is used correctly, and that worker health and safety concerns are addressed.

All personnel involved in the field work, including subcontractors conducting field activities, will be trained in accordance with OSHA's Hazwoper requirements in 29 CFR 1910.120. All subcontractors will be responsible for complying with all applicable OSHA requirements and all other federal, state and local safety requirements.

6.0 SCHEDULE

Following formal NJDEP approval of this VI Investigation Workplan, TRC anticipates initiation of the investigation activities described herein. Assuming that access requests are granted in a timely manner, field activities are anticipated to be completed in September 2010, and NJDEP-submission of the VI investigation report is anticipated to be completed by December 30, 2010.

Following NJDEP approval and procurement of off-Site property access, the NJDEP will be notified via the Potable Well/Indoor Air Sampling Notification form and the sampling notification spreadsheet at least 7 days prior to conducting field activities, as required, and provided with an updated schedule for the completion of these VI investigation activities. The property owners and/or tenants will also be notified at least 7 days in advance of any field activities.

FIGURES





SOURCE: U.S.G.S. CHATHAM, NJ
7.5 MINUTE QUADRANGLE

0 1000 2000
SCALE IN FEET



TRC ENVIRONMENTAL CORP.

57 East Willow Street
Millburn, New Jersey 07041

SITE LOCATION MAP

FORMER LOCKHEED ELECTRONICS COMPANY, INC.
WATCHUNG, NEW JERSEY

PREPARED BY: DD/LB

DATE: APRIL 2007

JOB NO.: 2542

FIGURE: 1



LEGEND

- ACTIVE MONITORING WELL OR PIEZOMETER
- ▲ SW-1 SURFACE WATER MONITORING LOCATION
- ⦿ WELL ABANDONED OR DESTROYED





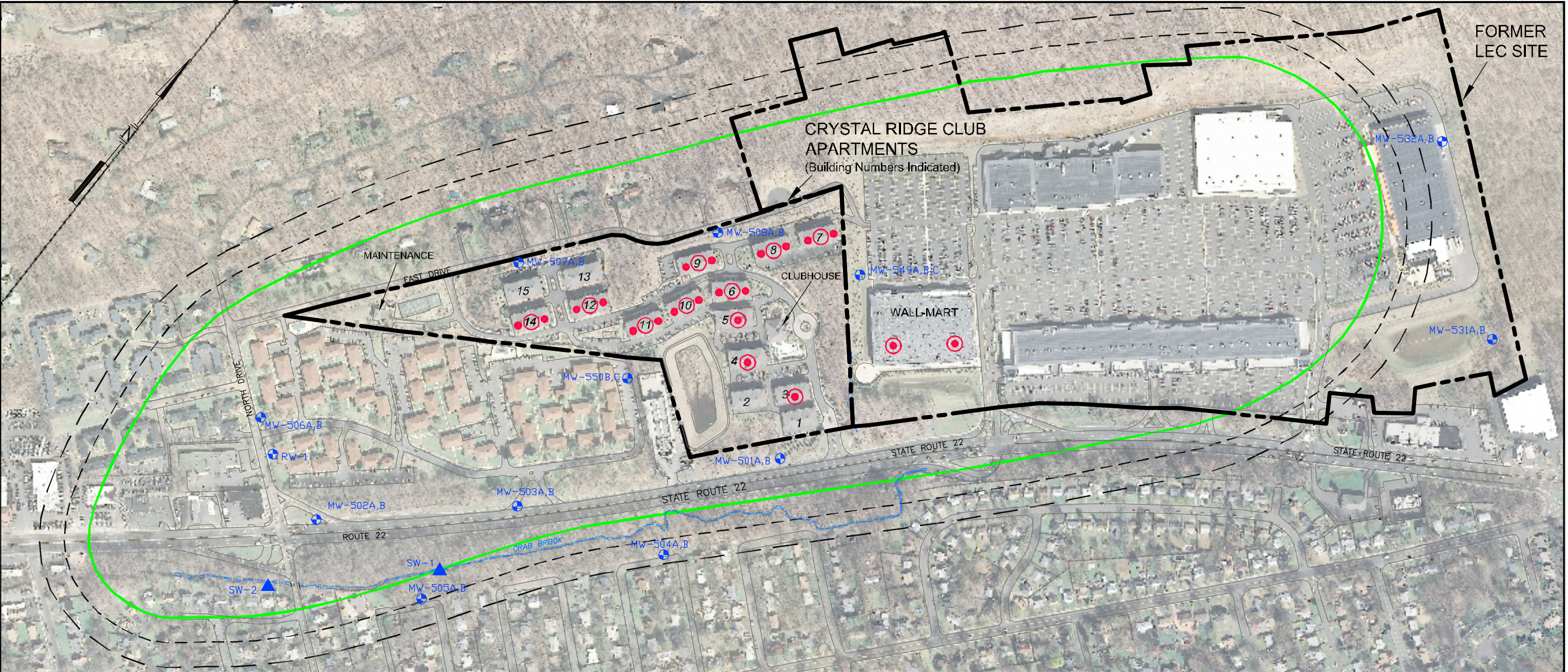
TRC ENVIRONMENTAL CORP.
57 East Willow Street
Millburn, New Jersey 07041

SITE PLAN

FORMER LOCKHEED ELECTRONICS COMPANY, INC.
WATCHUNG, NEW JERSEY

JOB NO. 2542-116473

PP/ODL	DATE: NOVEMBER 2008	FIGURE : 2
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EXPLANATION

- ACTIVE MONITORING WELL OR PIEZOMETER
 - SURFACE WATER MONITORING LOCATION
 - PROPOSED INDOOR AIR SAMPLE LOCATIONS
 - PROPOSED SUB-SLAB SOIL VAPOR SAMPLE LOCATIONS
- EXTENT OF SHALLOW GROUND WATER PLUME
- 100 FEET FROM EXTENT OF SHALLOW GROUND WATER PLUME
- 200 FEET FROM EXTENT OF SHALLOW GROUND WATER PLUME

NOTE: ACTUAL SAMPLE LOCATIONS WILL BE BASED UPON FACILITY-SPECIFIC BUILDING CONSTRUCTIONS AND ACCESS RESTRICTIONS.





TRC ENVIRONMENTAL CORP.
57 East Willow Street
Millburn, New Jersey 07041

EXTENT OF SHALLOW GROUND WATER PLUME AND PROPOSED VAPOR INTRUSION INVESTIGATION SAMPLE LOCATIONS

FORMER LOCKHEED ELECTRONICS COMPANY, INC.
WATCHUNG, NEW JERSEY

JOB NO. 2542-116473

SM/LB

DATE: MARCH 2010

FIGURE: 3

TABLES

Table I

DRAFT

**List of Property Owners and Tenants Within a 100- and 200- Feet Radius of the Shallow Ground Water Plume
Former Lockheed Electronics Corp.**

Watchung, NJ

Property Owners/Tenants Within 100 Feet Radius of Shallow Ground Water Plume Area					
Block	Lot	Owner/Tenant Name/Bldg Identifier	Property Address	Town, State, Zip	Structure(s)
WATCHUNG					
56.01	2.01 (3.01)	Crystal Ridge Maintenance Building	EAST DRIVE	WATCHUNG, NJ 07069	Storage Bldg
56.01	4, 5	Crystal Ridge Building No. 12	12 CRYSTAL RIDGE DRIVE	WATCHUNG, NJ 07069	24-Unit Apartment Bldg
56.01	4, 5	Crystal Ridge Building No. 13	13 DIAMOND COURT	Watchung, NJ 07069	24-Unit Apartment Bldg
56.01	4, 5	Crystal Ridge Building No. 14	14 CRYSTAL RIDGE DRIVE	Watchung, NJ 07069	24-Unit Apartment Bldg
56.01	4, 5	Crystal Ridge Building No. 15	15 DIAMOND COURT	Watchung, NJ 07069	24-Unit Apartment Bldg
56.02	1	JOHANSSON, BENGT & MARIE	17 EAST DRIVE	WATCHUNG, NJ 07069	House
56.02	6	STEGIS, KARLIS & INESE	63 EAST DRIVE	WATCHUNG, NJ 07069	House
56.02	7	HASTALL, VERONICA	51 EAST DRIVE	WATCHUNG, NJ 07069	House
56.03	5	GRICHINA, IRINA	163 EAST DRIVE	WATCHUNG, NJ 07069	House
56.03	6	GURA, DIANE	147 EAST DRIVE	WATCHUNG, NJ 07069	House
56.03	7	PFITZNER, ROBERT & MARY LOU	131 EAST DRIVE	WATCHUNG, NJ 07069	House
56.03	8	KIRPAN, JOHN & JANET	115 EAST DRIVE	WATCHUNG, NJ 07069	House
56.03	9	POLE-POLICASTRO, MARIE	99 EAST DRIVE	WATCHUNG, NJ 07069	House
56.03	10	MESSERCOLA, AUGUSTO & ANTONIETTA M.	89 EAST DRIVE	WATCHUNG, NJ 07069	House
56.03	11	ABASHIDZE, OLGA V & GELA	77 EAST DRIVE	WATCHUNG, NJ 07069	House
57.03	2.01	WATCHUNG SQUARE ASSOCIATES LLC - OWNER, BORDERS, INC. - TENANT	1511 ROUTE 22 WEST	WATCHUNG, NJ 07060	4A
57.03	2.02	WATCHUNG SQUARE ASSOCIATES LLC - OWNER, TJ MAXX # 811, ETC.-TENANTS	1515 ROUTE 22 WEST	WATCHUNG, NJ 07060	4A
57.03	2.03	HD DEVELOPMENT OF MARYLAND, INC.-HOME DEPOT	ROUTE 22	WATCHUNG, NJ 07069	Store
57.03	2.04	WATCHUNG SQUARE ASSOCIATES LLC-OWNER, WAL-MART-TENANT	1501 ROUTE 22 WEST	WATCHUNG, NJ 07069	4A
57.03	2.06	TARGET CORP T-1155 PROPTAX TPN0950	ROUTE 22	WATCHUNG, NJ 07069	Store
57.03	11	Crystal Ridge Building No. 7	7 SUMMIT WAY	WATCHUNG, NJ 07069	24-Unit Apartment Bldg
57.03	11, 12	Crystal Ridge Building No. 8	8 SUMMIT WAY	WATCHUNG, NJ 07069	24-Unit Apartment Bldg
57.03	12	Crystal Ridge Building No. 4	4 CLUB COURT	WATCHUNG, NJ 07069	22-Unit Apartment Bldg
57.03	12	Crystal Ridge Building No. 5	5 EMERALD DRIVE	WATCHUNG, NJ 07069	22-Unit Apartment Bldg
57.03	12	Crystal Ridge Building No. 6	6 CRYSTAL RIDGE DRIVE	WATCHUNG, NJ 07069	22-Unit Apartment Bldg
57.03	12	Crystal Ridge Building No. 9	9 SUMMIT WAY	WATCHUNG, NJ 07069	24-Unit Apartment Bldg
57.03	12	Crystal Ridge Building No. 10	10 CRYSTAL RIDGE DRIVE	WATCHUNG, NJ 07069	24-Unit Apartment Bldg
57.03	12, 13	Crystal Ridge Building No. 11	11 CRYSTAL RIDGE DRIVE	WATCHUNG, NJ 07069	24-Unit Apartment Bldg
NORTH PLAINFIELD					
5	2	ILLMENSEE, SADAME	288-90 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	House
5	3	BZDULA, JOZEF & LUCYNA	284-86 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	House
5	17	DE TOMMASO, PETER & ROSE	240 BELMONT AVE	NORTH PLAINFIELD, NJ 07060	House
6.01	1.01-1.08	Regency Village Building 1		NORTH PLAINFIELD, NJ 07060	Condo
6.01	2.01-2.08	Regency Village Building 2		NORTH PLAINFIELD, NJ 07060	Condo
6.01	3.01-3.08	Regency Village Building 3		NORTH PLAINFIELD, NJ 07060	Condo
6.01	4.01-4.08	Regency Village Building 4		NORTH PLAINFIELD, NJ 07060	Condo
6.01	5.01-5.08	Regency Village Building 5		NORTH PLAINFIELD, NJ 07060	Condo
6.01	6.01-6.08	Regency Village Building 6		NORTH PLAINFIELD, NJ 07060	Condo
6.01	7.01-7.04	Regency Village Building 7		NORTH PLAINFIELD, NJ 07060	Condo
6.01	8.01-8.08	Regency Village Building 8		NORTH PLAINFIELD, NJ 07060	Condo
6.01	9.01-9.08	Regency Village Building 9		NORTH PLAINFIELD, NJ 07060	Condo
6.01	10.01-10.08	Regency Village Building 10		NORTH PLAINFIELD, NJ 07060	Condo

Table I

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**List of Property Owners and Tenants Within a 100- and 200- Feet Radius of the Shallow Ground Water Plume
Former Lockheed Electronics Corp.**

Watchung, NJ

Property Owners/Tenants Within 100 Feet Radius of Shallow Ground Water Plume Area					
Block	Lot	Owner/Tenant Name/Bldg Identifier	Property Address	Town, State, Zip	Structure(s)
6.01	11.01-11.08	Regency Village Building 11		NORTH PLAINFIELD, NJ 07060	Condo
6.01	12.01-12.08	Regency Village Building 12		NORTH PLAINFIELD, NJ 07060	Condo
6.01	13.01-13.08	Regency Village Building 13		NORTH PLAINFIELD, NJ 07060	Condo
6.01	14.01-14.08	Regency Village Building 14		NORTH PLAINFIELD, NJ 07060	Condo
6.01	15.01-15.08	Regency Village Building 15		NORTH PLAINFIELD, NJ 07060	Condo
6.01	16.01-16.08	Regency Village Building 16		NORTH PLAINFIELD, NJ 07060	Condo
6.01	17.01-17.09	Regency Village Building 17		NORTH PLAINFIELD, NJ 07060	Condo
6.01	18.01-18.08	Regency Village Building 18		NORTH PLAINFIELD, NJ 07060	Condo
6.01	19.01-19.08	Regency Village Building 19		NORTH PLAINFIELD, NJ 07060	Condo
6.01	20.01-20.08	Regency Village Building 20		NORTH PLAINFIELD, NJ 07060	Condo
6.01	21.01-21.08	Regency Village Building 21		NORTH PLAINFIELD, NJ 07060	Condo
6.01	22.01-22.08	Regency Village Building 22		NORTH PLAINFIELD, NJ 07060	Condo
6.01	23.01-23.08	Regency Village Building 23		NORTH PLAINFIELD, NJ 07060	Condo
6.01	24.01-24.08	Regency Village Building 24		NORTH PLAINFIELD, NJ 07060	Condo
6.01	25.01-25.08	Regency Village Building 25		NORTH PLAINFIELD, NJ 07060	Condo
6.01	26.01-26.08	Regency Village Building 26		NORTH PLAINFIELD, NJ 07060	Condo
6.01	27.01-27.08	Regency Village Building 27		NORTH PLAINFIELD, NJ 07060	Condo
6.01	28.01-28.08	Regency Village Building 28		NORTH PLAINFIELD, NJ 07060	Condo
6.01	29.01-29.08	Regency Village Building 29		NORTH PLAINFIELD, NJ 07060	Condo
6.01	30.01-30.08	Regency Village Building 30		NORTH PLAINFIELD, NJ 07060	Condo
6.01	31.01-31.08	Regency Village Building 31		NORTH PLAINFIELD, NJ 07060	Condo
6.01	32.01-32.08	Regency Village Building 32		NORTH PLAINFIELD, NJ 07060	Condo
6.01	33.01-33.08	Regency Village Building 33		NORTH PLAINFIELD, NJ 07060	Condo
6.01	34.01-34.08	Regency Village Building 34		NORTH PLAINFIELD, NJ 07060	Condo
6.01	35.01-35.08	Regency Village Building 35		NORTH PLAINFIELD, NJ 07060	Condo
6.01	36.01-36.08	Regency Village Building 36		NORTH PLAINFIELD, NJ 07060	Condo
6.01	37.01-37.09	Regency Village Building 37		NORTH PLAINFIELD, NJ 07060	Condo
6.01	38.01-38.09	Regency Village Building 38		NORTH PLAINFIELD, NJ 07060	Condo
6.01	39.01-39.08	Regency Village Building 39		NORTH PLAINFIELD, NJ 07060	Condo
6.01	40.01-40.08	Regency Village Building 40		NORTH PLAINFIELD, NJ 07060	Condo
6.01	41.01-41.08	Regency Village Building 41		NORTH PLAINFIELD, NJ 07060	Condo
6.01	42.01-42.08	Regency Village Building 42		NORTH PLAINFIELD, NJ 07060	Condo
6.01	43.01-43.08	Regency Village Building 43		NORTH PLAINFIELD, NJ 07060	Condo
6.01	44.01-44.08	Regency Village Building 44		NORTH PLAINFIELD, NJ 07060	Condo
6.01	45.01-45.08	Regency Village Building 45		NORTH PLAINFIELD, NJ 07060	Condo
6.01	46.01-46.08	Regency Village Building 46		NORTH PLAINFIELD, NJ 07060	Condo
6.01	47.01-47.08	Regency Village Building 47		NORTH PLAINFIELD, NJ 07060	Condo
6.01	48.01-48.08	Regency Village Building 48		NORTH PLAINFIELD, NJ 07060	Condo
6.01	49.01-49.08	Regency Village Building 49		NORTH PLAINFIELD, NJ 07060	Condo
6.01	50.01-50.08	Regency Village Building 50		NORTH PLAINFIELD, NJ 07060	Condo
6.01	51.01-51.08	Regency Village Building 51		NORTH PLAINFIELD, NJ 07060	Condo
6.01	52.01-52.08	Regency Village Building 52		NORTH PLAINFIELD, NJ 07060	Condo
6.01	53.01-53.08	Regency Village Building 53		NORTH PLAINFIELD, NJ 07060	Condo
6.01	54.01-54.04	Regency Village Building 54		NORTH PLAINFIELD, NJ 07060	Condo

Table I

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**List of Property Owners and Tenants Within a 100- and 200- Feet Radius of the Shallow Ground Water Plume
Former Lockheed Electronics Corp.**

Watchung, NJ

Property Owners/Tenants Within 100 Feet Radius of Shallow Ground Water Plume Area					
Block	Lot	Owner/Tenant Name/Bldg Identifier	Property Address	Town, State, Zip	Structure(s)
6.02	1	De Tommaso, Peter c/o Homeowners Heaven	351 HIGHWAY 22	NORTH PLAINFIELD, NJ 07060	Store
6.02	2, 3	Crystal Ridge Clubhouse	1101 GATEHOUSE LANE	NORTH PLAINFIELD, NJ 07060	Clubhouse
6.02	2, 3	Crystal Ridge Building No. 1	1 GATEHOUSE LANE	NORTH PLAINFIELD, NJ 07060	22-Unit Apartment Bldg
6.02	2, 3	Crystal Ridge Building No. 2	2 CRYSTAL TERRACE	NORTH PLAINFIELD, NJ 07060	22-Unit Apartment Bldg
6.02	2, 3	Crystal Ridge Building No. 3	3 CRYSTAL TERRACE	NORTH PLAINFIELD, NJ 07060	22-Unit Apartment Bldg
6.04	1	UMRATH, FRIEDA	379-83 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	House
6.04	2.01	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	6	NBO STORES, INC.-BRISTOL MOTORS	529-41 HIGHWAY 22	NORTH PLAINFIELD, NJ 07060	Commercial (Nissan Dlr)
6.04	7	ROUTE 22 SJ REALTY,LLC	513-27 HIGHWAY 22	NORTH PLAINFIELD, NJ 07060	Commercial (Sprint/Quizznos)
6.04	8	P.F.VITARIS, TRUSTEE C/O BP AMERICA	497-511 HIGHWAY 22	NORTH PLAINFIELD, NJ 07060	Commercial (BP Gas Stn)
6.04	9	VILLA FURNITURE J&A,L.L.C.	481-95 HIGHWAY 22	NORTH PLAINFIELD, NJ 07060	Commercial (Villa Furn.)
6.04	10	WAREHOUSE REALTY CORP	325-339 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Commercial (sears Auto)
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
28.01	8	LEMBO, JOYCE & VALENTI, JOY	260 SANDFORD AVE	NORTH PLAINFIELD, NJ 07060	House
28.01	9	POLTORAK, FRANCIS & MARGARET	36-8 FOREST BROOK DR	NORTH PLAINFIELD, NJ 07060	House
28.01	10	EGBERT, KEVIN SCOTT & HEATHER M.	40-44 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.02	8	RIVERA, TINA E.	220 DE LACY DR	NORTH PLAINFIELD, NJ 07060	House
28.02	9	LI, JUN & DUONG, QUYEN	8 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.02	10	ALSTON, PATRICIA	265 SANDFORD AVENUE	NORTH PLAINFIELD, NJ 07060	House
28.03	1	LYNCH, JOSEPH J. & MONA M.	43 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.03	2	LABOMBARDA, SAVERIO & BETTINA	39 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.03	3	ESGOBUE, NKEMDILIM	31 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.03	4.01	MILLS, AVANEL	27 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.03	4.02	EISELE, ROBERT J. & JOANNA C.	21 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.03	5	RODRIGUEZ, JOSE T.	17 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House

Table I

DRAFT

**List of Property Owners and Tenants Within a 100- and 200- Feet Radius of the Shallow Ground Water Plume
Former Lockheed Electronics Corp.**

Watchung, NJ

Property Owners/Tenants Within 100 Feet Radius of Shallow Ground Water Plume Area					
Block	Lot	Owner/Tenant Name/Bldg Identifier	Property Address	Town, State, Zip	Structure(s)
28.03	6	FIGUEROA, M., ENCARNACION & CATHERINE	13 FOREST BROOK DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.03	7	SULLIVAN, KEVIN W & ANNETTE	7 FOREST BROOK DR	NORTH PLAINFIELD, NJ 07060	House
28.03	8	NOWIK, JOHN P & MARTHA E	3 FOREST BROOK DR	NORTH PLAINFIELD, NJ 07060	House
28.03	9	ORTIZ, ELSA G.	223 DELACY DR	NORTH PLAINFIELD, NJ 07060	House
28.03	10	MILLER, VAUGHN & LAURIE N	221 DELACY DR	NORTH PLAINFIELD, NJ 07060	House
Property Owners/Tenants Between 100 Feet Radius and 200 Feet Radius of Shallow Ground Water Plume Area					
Block	Lot	Owner/Tenant Name/Bldg Identifier	Property Address	Town, State, Zip	Structure(s)
WATCHUNG					
56.03	3	LIDSKY, ARNOLD & MARGO		WATCHUNG, NJ 07069	House
56.03	4	GREENSTEIN, MICHAEL S	164 EDMONT ROAD	WATCHUNG, NJ 07069	House
NORTH PLAINFIELD					
4.02	3	ESBRANDT, BRET & MARIA	268 FARRAGUT ROAD	NORTH PLAINFIELD, NJ 07060	House
4.02	17	BREWER, MILBURN E. & JUANITA	357-9 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	18	ZIMMERMAN, JR., HAROLD P. & B. M.	361 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	19	TROTTE, JOHN A. & TONI E.	365 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	20	MONTICELLO, BRUCE A. & ALICIA	369-71 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	21	CORTORREAL, R. & C. & PEREZ, H.A.	373 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	22	CZEREUTA, JOHN	379-81 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	23	SMITH, WENDY	383 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	24	TOWNLEY, RICHARD S. & MAUREEN E.	387-89 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	25	PAGANO, VINCENT J. & ROSALIND M.	391 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	26	BROWN, DARNELL	395-7 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	27	IMPORTICO, MARIA	399 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	28	GARGANO, R & GARGANO, V F	403-05 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	29	MEZZO, ALEXANDER & MARY	407 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	30	REAVES, ALISHIA D.	413 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	31	PENNYCOOKE, ALFANSO & EUNICE	419-23 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
4.02	32	CESPEDES, LUIS & ANDRES	425 RICHARD WAY	NORTH PLAINFIELD, NJ 07060	House
5.00	4	ACEVEDO, BENJAMIN & MARITZA	278-80 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	House
5.00	5	DILONE, NIWTON & MELISSA M	272-6 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	House
5.00	15	BRANCH, PETER J & CATHERINE	232 BELMONT AVE	NORTH PLAINFIELD, NJ 07060	House
5.00	16	LEFANTO, CARMINE & JANE	236 BELMONT AVE	NORTH PLAINFIELD, NJ 07060	House
6.04	2.01, 2.02	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.01, 2.02	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	2.03	HOME PROPERTIES NORTH PLAINFIELD	347-75 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
6.04	5	BRISTOL MOTORS, INC.	545-55 HIGHWAY 22	NORTH PLAINFIELD, NJ 07060	Commercial (Nissan Dir)
6.04	11	NORTH DRIVE ARMS, L.L.C.	341-345 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	Apartment Bldg
8.00	1	SYLVESTER, PAUL & GLADYS	289 JEFFERIES PLACE	NORTH PLAINFIELD, NJ 07060	House
8.00	15	STOKES, WILLIAM & ESTHER	290-294 LEWIS ST	NORTH PLAINFIELD, NJ 07060	House
10.00	13	PIZARRO, JOEL & SHIRLEY A.	292 ONEIDA AVE	NORTH PLAINFIELD, NJ 07060	House

Table I

DRAFT

**List of Property Owners and Tenants Within a 100- and 200- Feet Radius of the Shallow Ground Water Plume
Former Lockheed Electronics Corp.**

Watchung, NJ

Property Owners/Tenants Between 100 Feet Radius and 200 Feet Radius of Shallow Ground Water Plume Area

Block	Lot	Owner/Tenant Name/Bldg Identifier	Property Address	Town, State, Zip	Structure(s)
26.00	1	DE ROSE, ANTHONY JR. & PATRICIA	289 WILLARD PL	NORTH PLAINFIELD, NJ 07060	House
26.00	14	MC CARTHY, CLYDE J. & MARY ANN	290 LEONARD PL	NORTH PLAINFIELD, NJ 07060	House
27.00	1	BEY, PAUL H & MAUREEN Y	329 BELMONT AVE	NORTH PLAINFIELD, NJ 07060	House
27.00	11	MOORE, LA DEBRA L & FLETCHER, ALVIN	215 BELMONT AVE	NORTH PLAINFIELD, NJ 07060	House
27.00	12	HICKS, JOHN R. & DOLORES A.	325 BELMONT AVE	NORTH PLAINFIELD, NJ 07060	House
28.01	6	VOLCY, JUDE	250 SANDFORD AVE	NORTH PLAINFIELD, NJ 07060	House
28.01	7	BROUSE, RUSSELL L. & CISNEROS, MICHAEL	258 SANDFORD AVE	NORTH PLAINFIELD, NJ 07060	House
28.01	11	GACZYNSKI, RICHARD & ANNE	273-275 NORTH DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.02	7.01	WINGATE, BONNIE	210 DE LACY DR	NORTH PLAINFIELD, NJ 07060	House
28.02	7.02	ROXAS, EDGAR & MARIA S	214 DE LACY DR	NORTH PLAINFIELD, NJ 07060	House
28.02	11	SIROKI, JANET I.	263 SANDFORD AVENUE	NORTH PLAINFIELD, NJ 07060	House
28.02	12	TRUPPI, MARIAN	257-59 SANDFORD AVE	NORTH PLAINFIELD, NJ 07060	House
28.03	11	MAGGIO, FRANCIS A. & MELISSA	215 DELACY DR	NORTH PLAINFIELD, NJ 07060	House
28.03	12	BETHEA, CLARA B.	211 DELACY DRIVE	NORTH PLAINFIELD, NJ 07060	House
28.03	29	FERRARA, CORINTO & ANNA	218-222 WESTERVELT AVE.	NORTH PLAINFIELD, NJ 07060	House
28.03	30	ABRAHAM, HANY	224-28 WESTERVELT AVENUE	NORTH PLAINFIELD, NJ 07060	House
28.03	31	JOHNSON, CAROLINE GARRY	230-32 WESTERVELT AVE	NORTH PLAINFIELD, NJ 07060	House
28.04	2.02	HARVAN, INC.	548-556 HIGHWAY 22	NORTH PLAINFIELD, NJ 07060	Commercial (Avis)

APPENDIX A

Floor Plans for Building Types C, D and D with Option E

**(NOTE: CDM ADDED MISSING FLOOR PLANS FOR BUILDINGS A AND B AND
RADON MITIGATION SYSTEM NOTES TO THIS APPENDIX)**

Site Plan

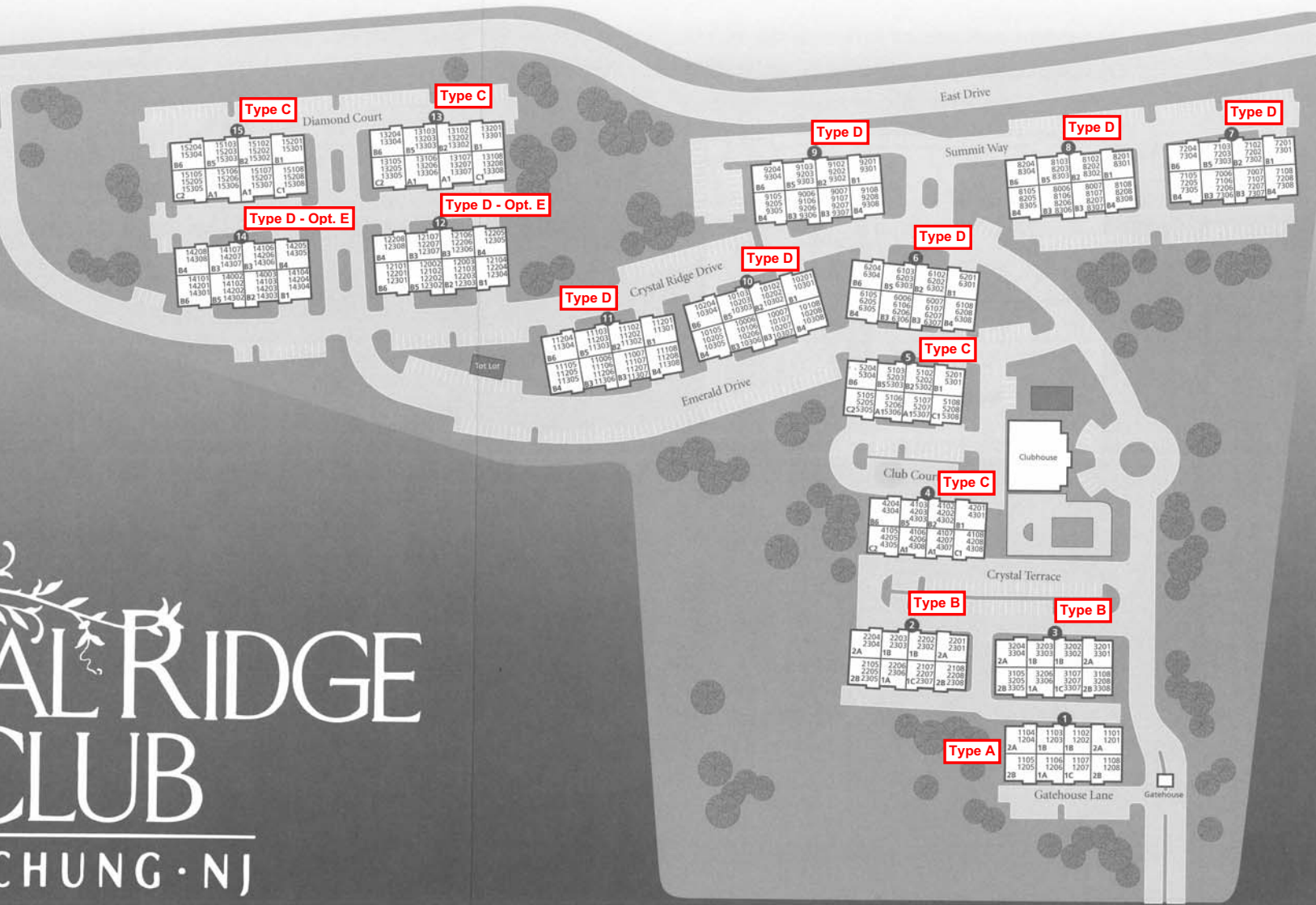


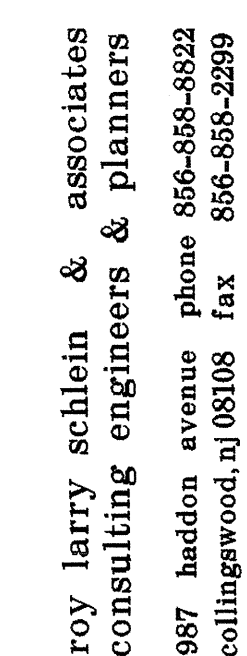
North



CRYSTAL RIDGE CLUB

WATCHUNG · NJ





THE MARTIN ARCHITECTURAL GROUP
(215) 665-1080
240 North 22nd Street • Philadelphia, Pa. 19103
ARCHITECTS AND LAND PLANNERS

40

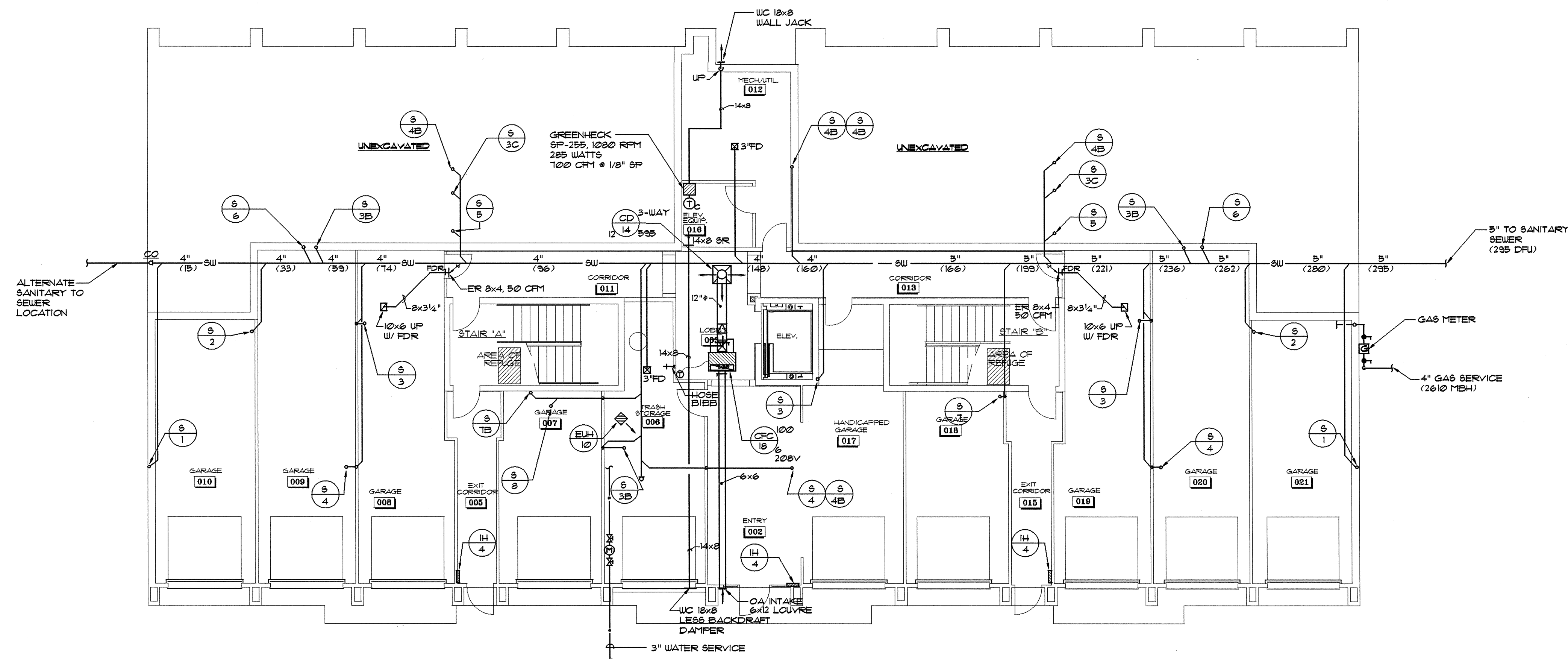
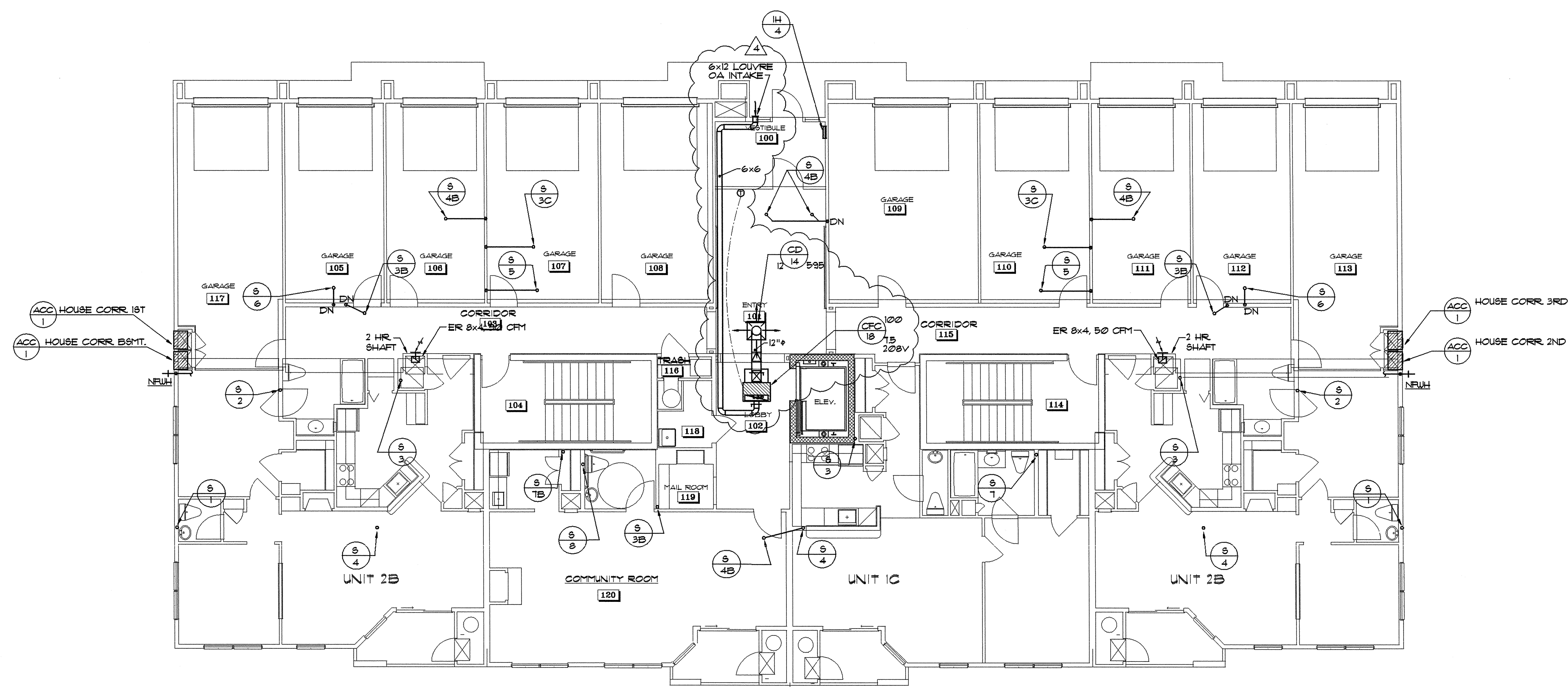
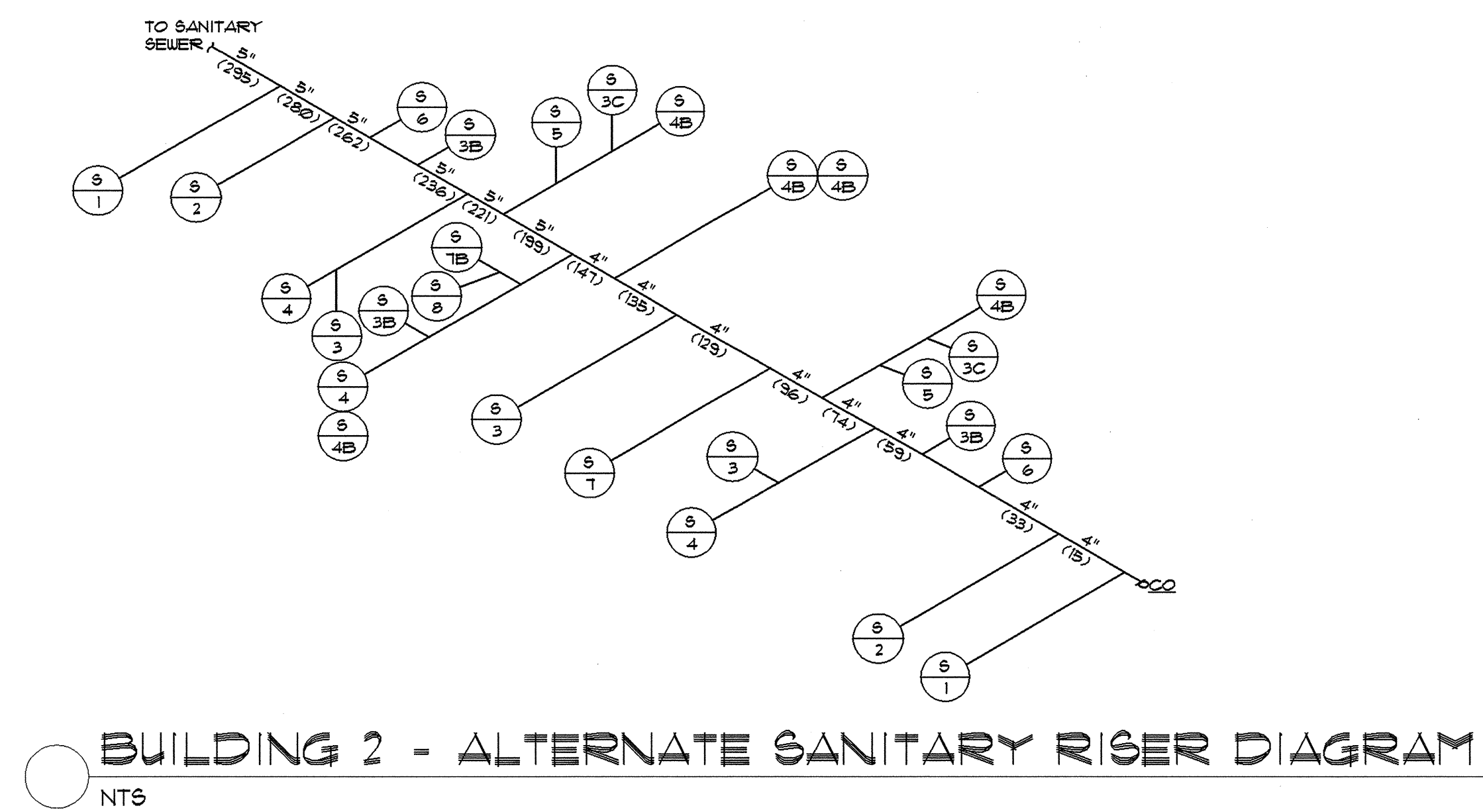
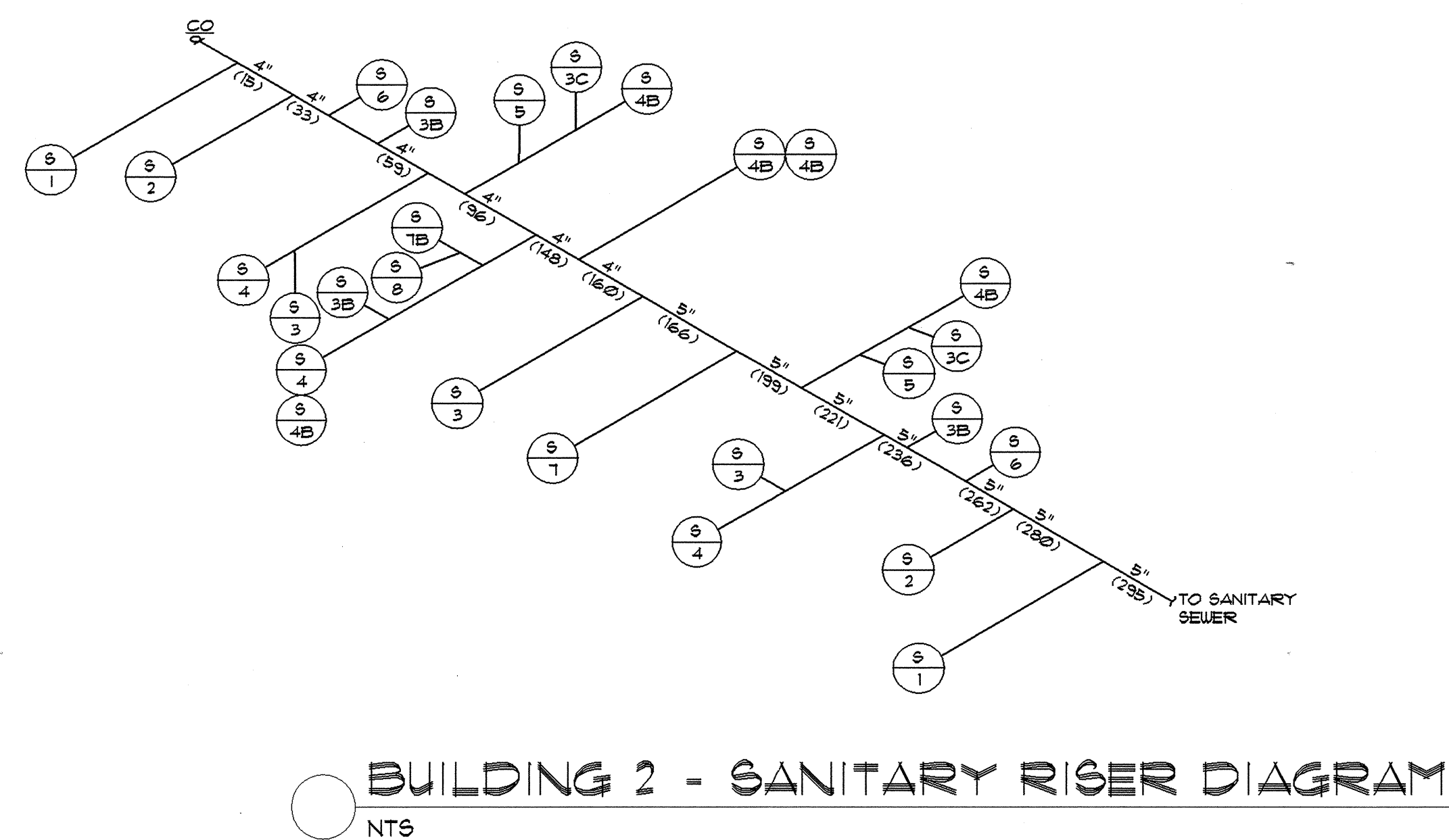
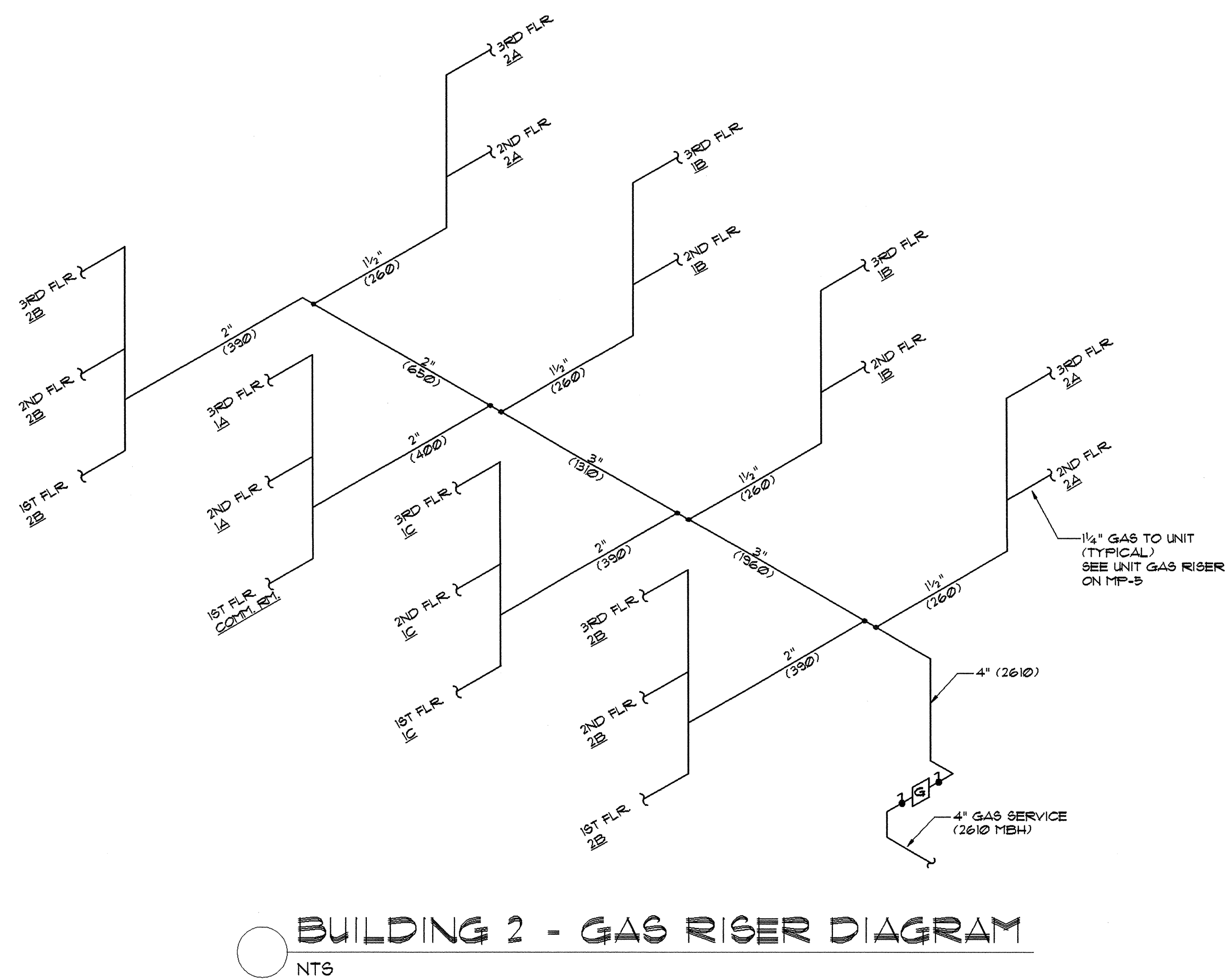
BLDG. I - MECHANICAL PLANS

CRYSTAL RIDGE CLUB
NORTH PLAINFIELD, NJ

GINSBURG DEVELOPMENT CORPORATION

NORTH PLAINFIELD





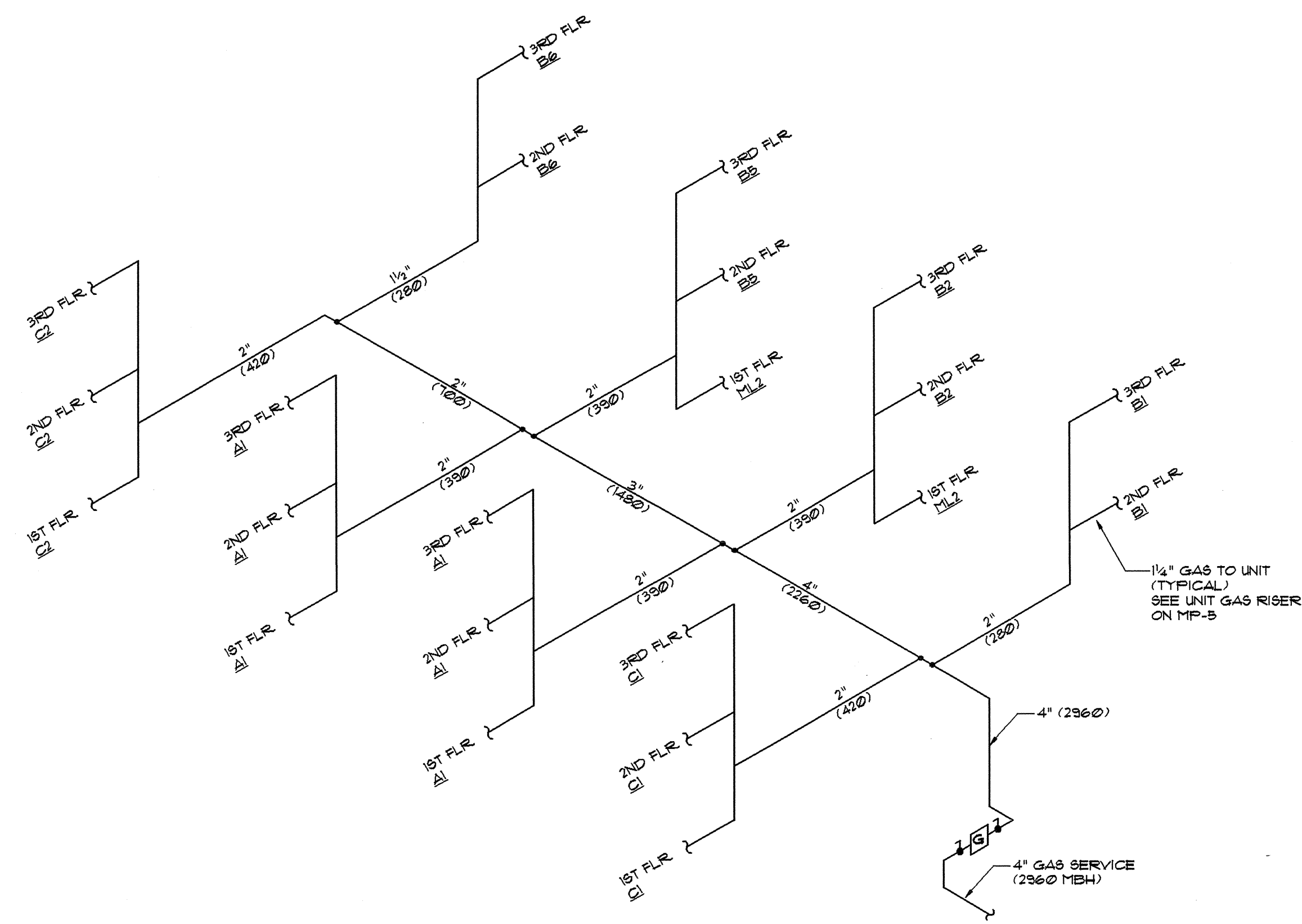
roy larry schlein & associates
consulting engineers & planners
987 haddon avenue phone 852-888-8882
collingswood, nj 08038 fax 852-888-8888

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240 North 2nd Street - Philadelphia, Pa. 19103
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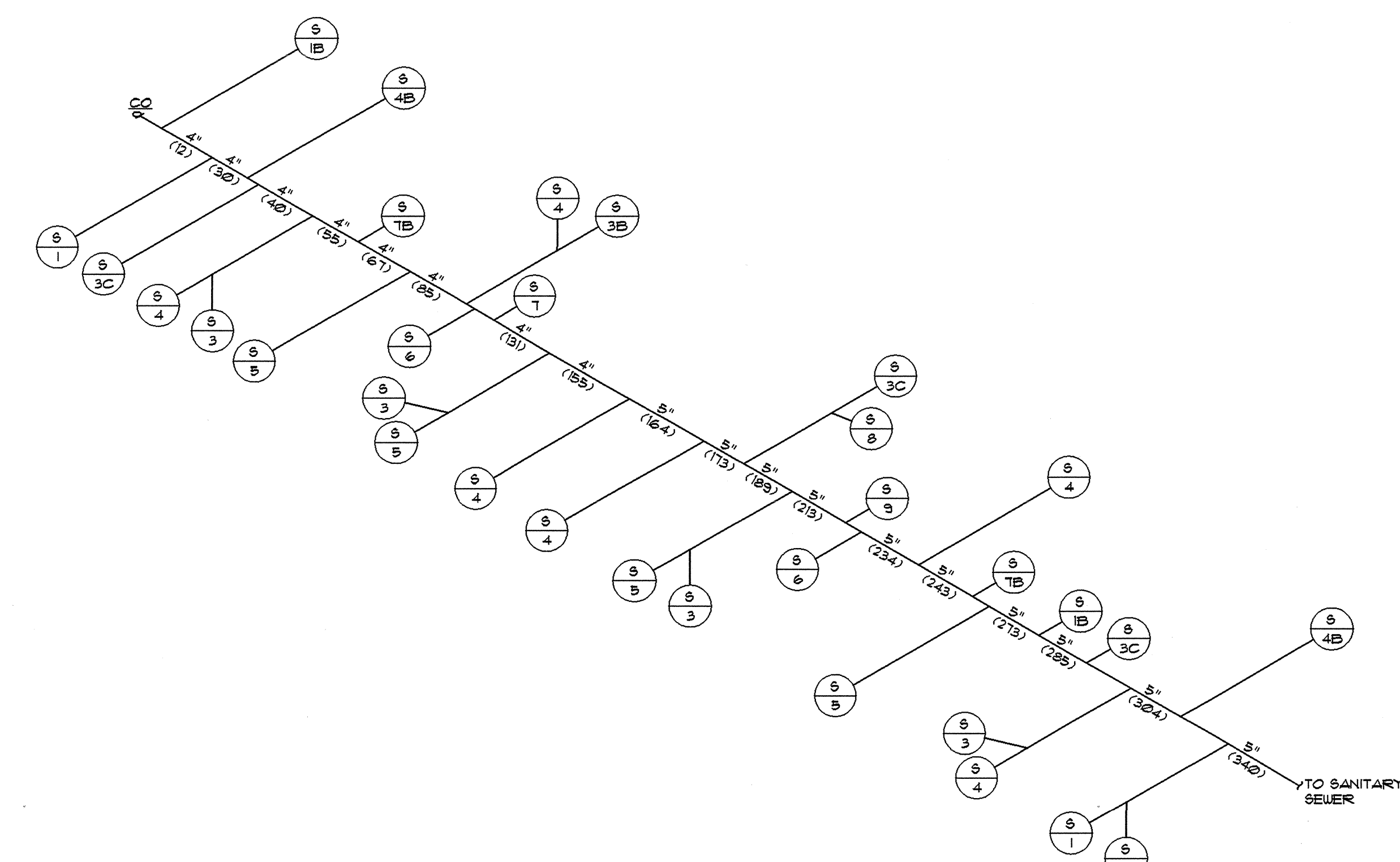
CHK'D:	
P.M. : GEORGE BAKER	
P.A. : LAURA STAINES	
PROJECT NO. : 16-1311-02	
DATE	1/08/01
REVISION	1/19/01
NO.	2
1	UPDATED BACKGROUNDS
2	Final Coordination Per 1-10-01 Meeting
3	BASE CHANGES
4	MOVED CFC
DATE	1/19/01
DATE	6/19/01
SCALE	NOTED
DRAWN BY:	SR/TA
DATE	4-5-00

BLDG. 2 - MECHANICAL PLANS
CRYSTAL RIDGE CLUB
NORTH PLAINFIELD NJ
GINSBURG DEVELOPMENT CORPORATION

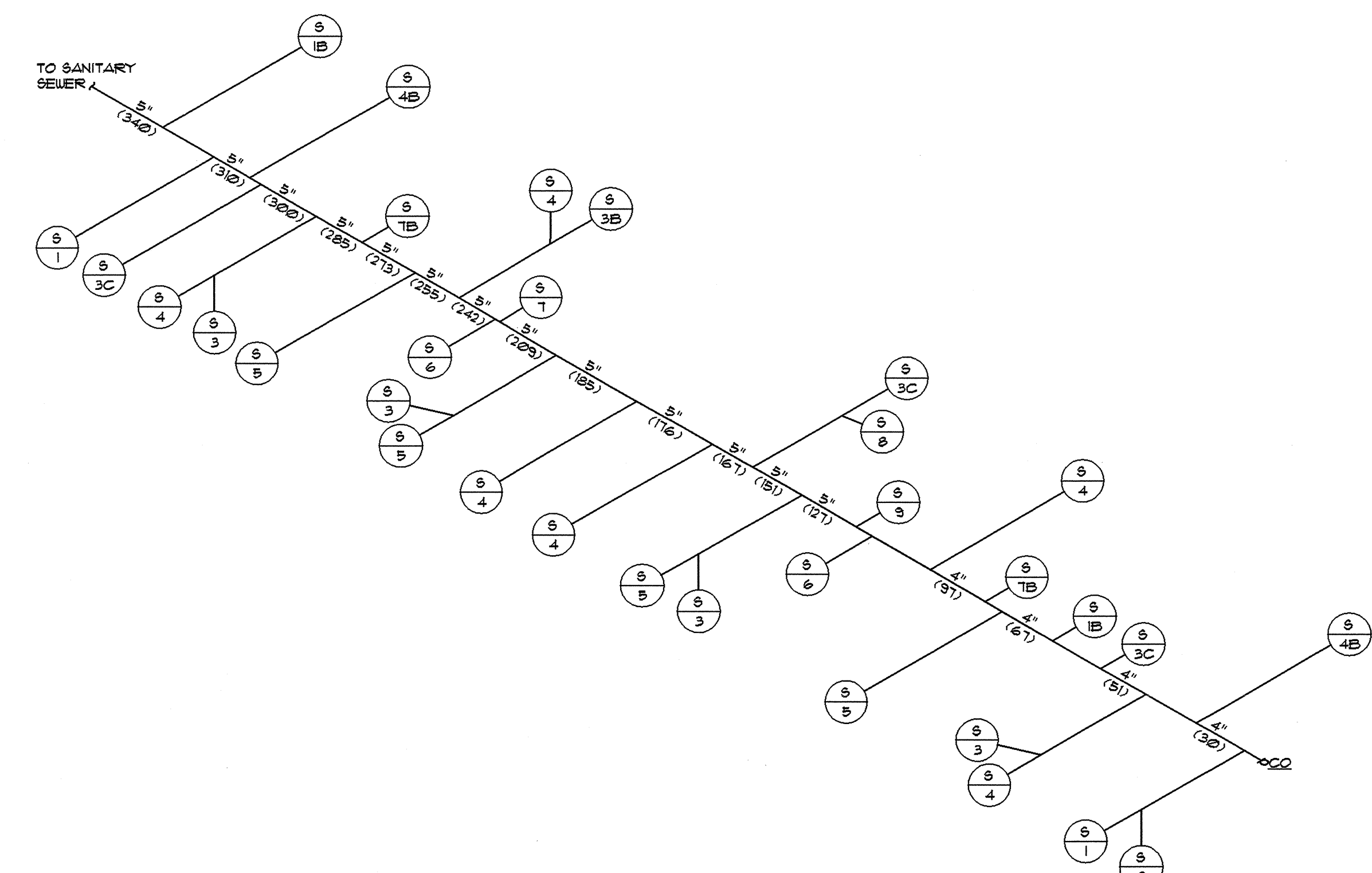
NORTH PLAINFIELD
1/8" = 1'-0"



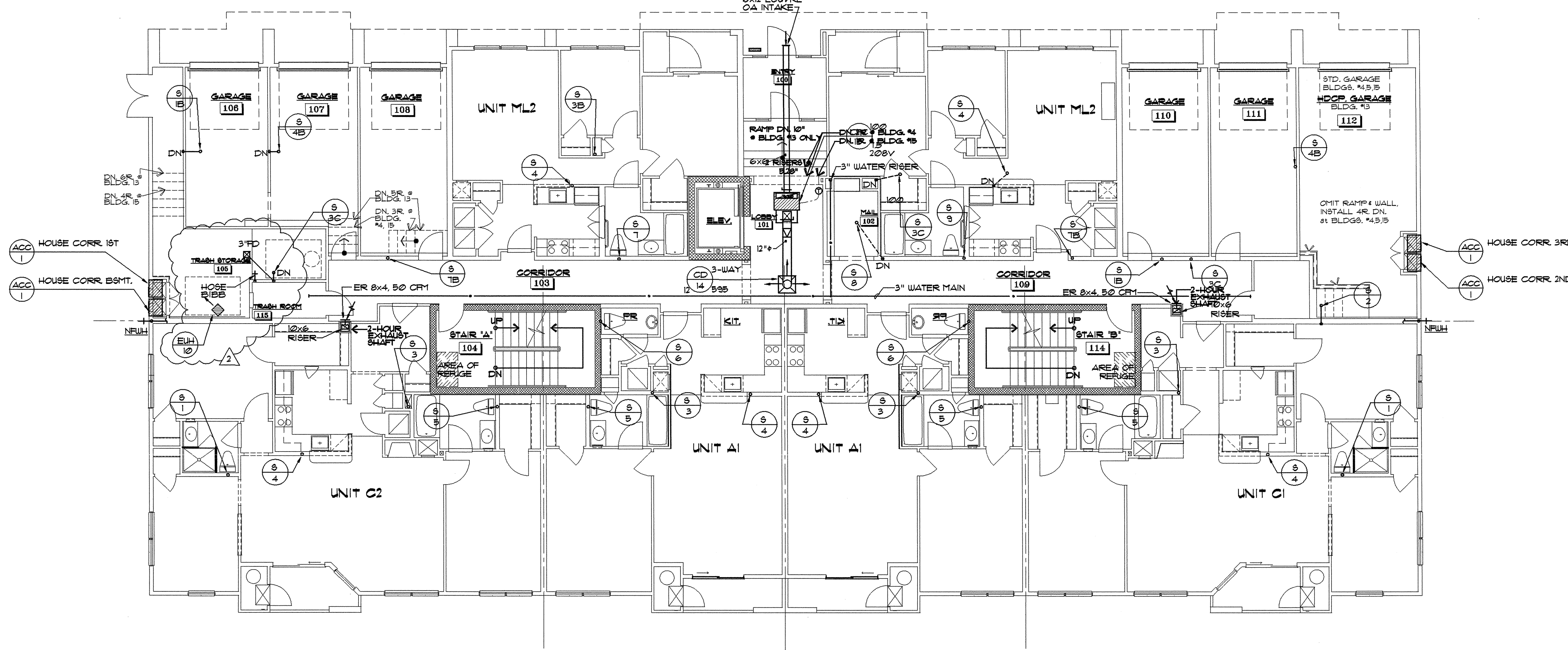
BUILDING 4 - GAS RISER DIAGRAM



BUILDING 4 - SANITARY RISER DIAGRAM

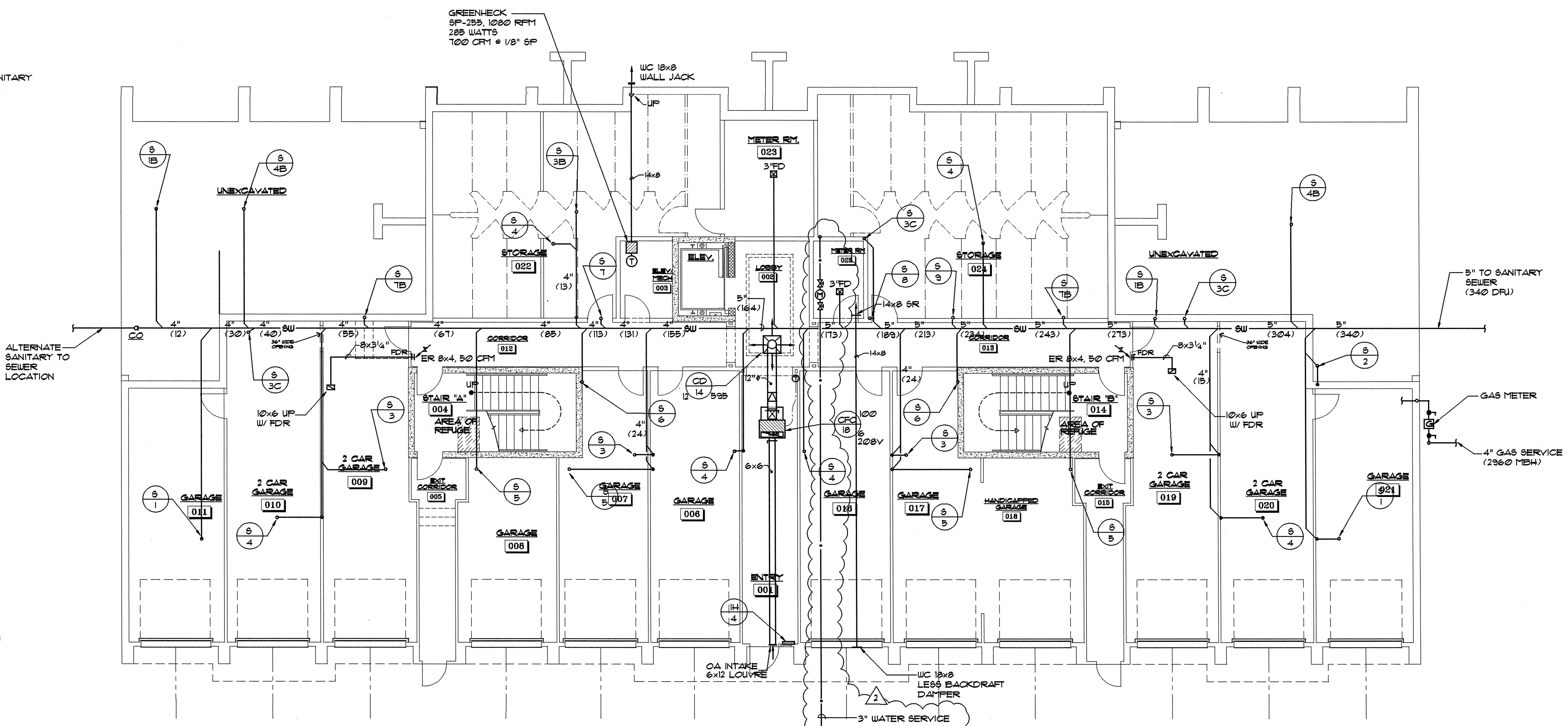


BUILDING 4 - ALTERNATE SANITARY RISER DIAGRAM



BUILDING 4 - FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"



BUILDING 4 - BASEMENT PLAN

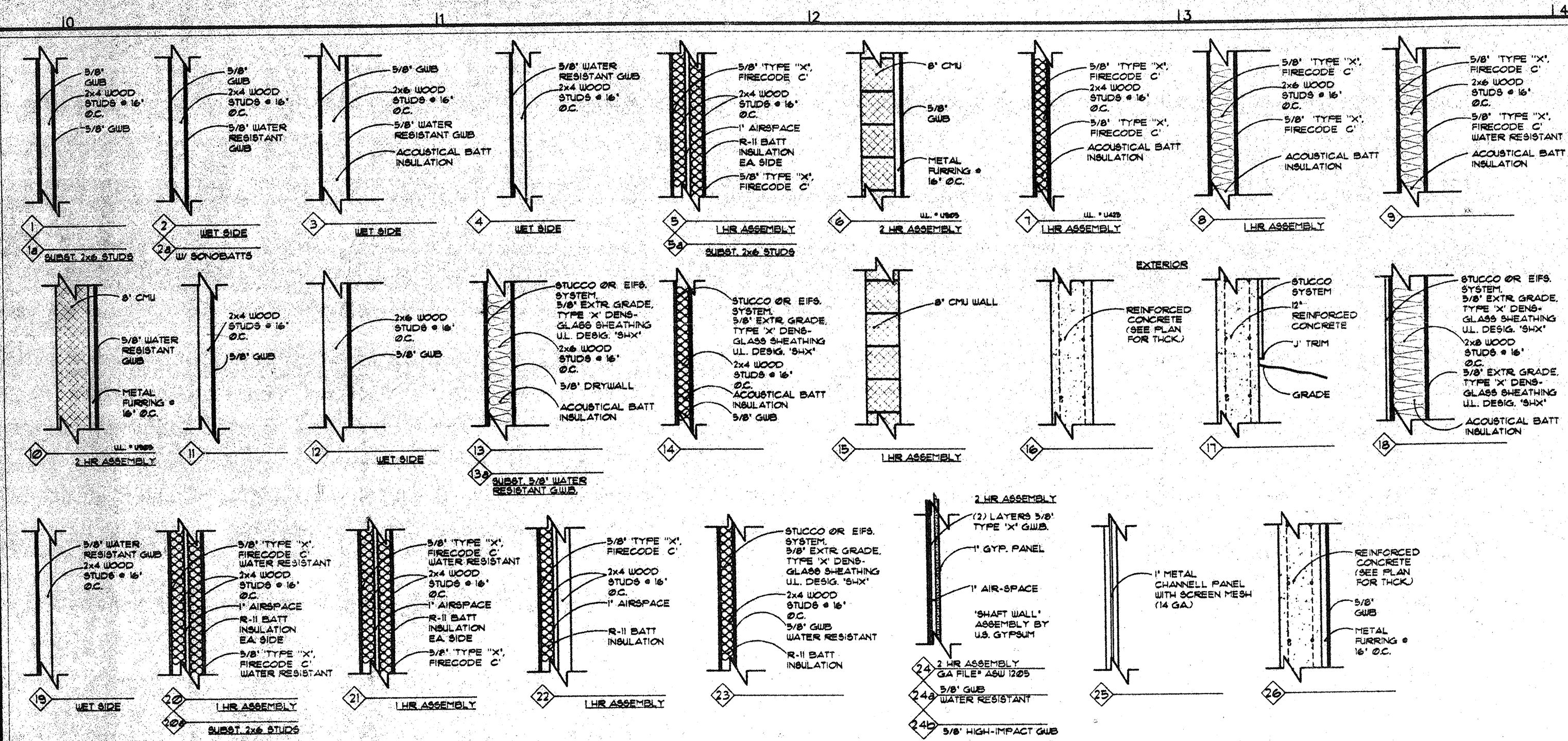
SCALE: 1/8" = 1'-0"

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collingswood, NJ 08038 fax 856-888-8299

THE MARTIN ARCHITECTURAL GROUP
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ARCHITECTS AND LAND PLANNERS

CHK'D:	
P.M. : GEORGE BAKER	
P.A. : LAURA STAINES	
PROJECT NO. 16-1311-02	
NO.	REVISION
1	UPDATED BACKGROUNDS
2	Final Coordination Per 1-10-01 Meeting
4	REVISED PERMIT ISSUE
5	CONSTRUCTION RELEASE
DRAWN BY:	SCALE:
SP/TA	NOTED
DATE:	4-5-00

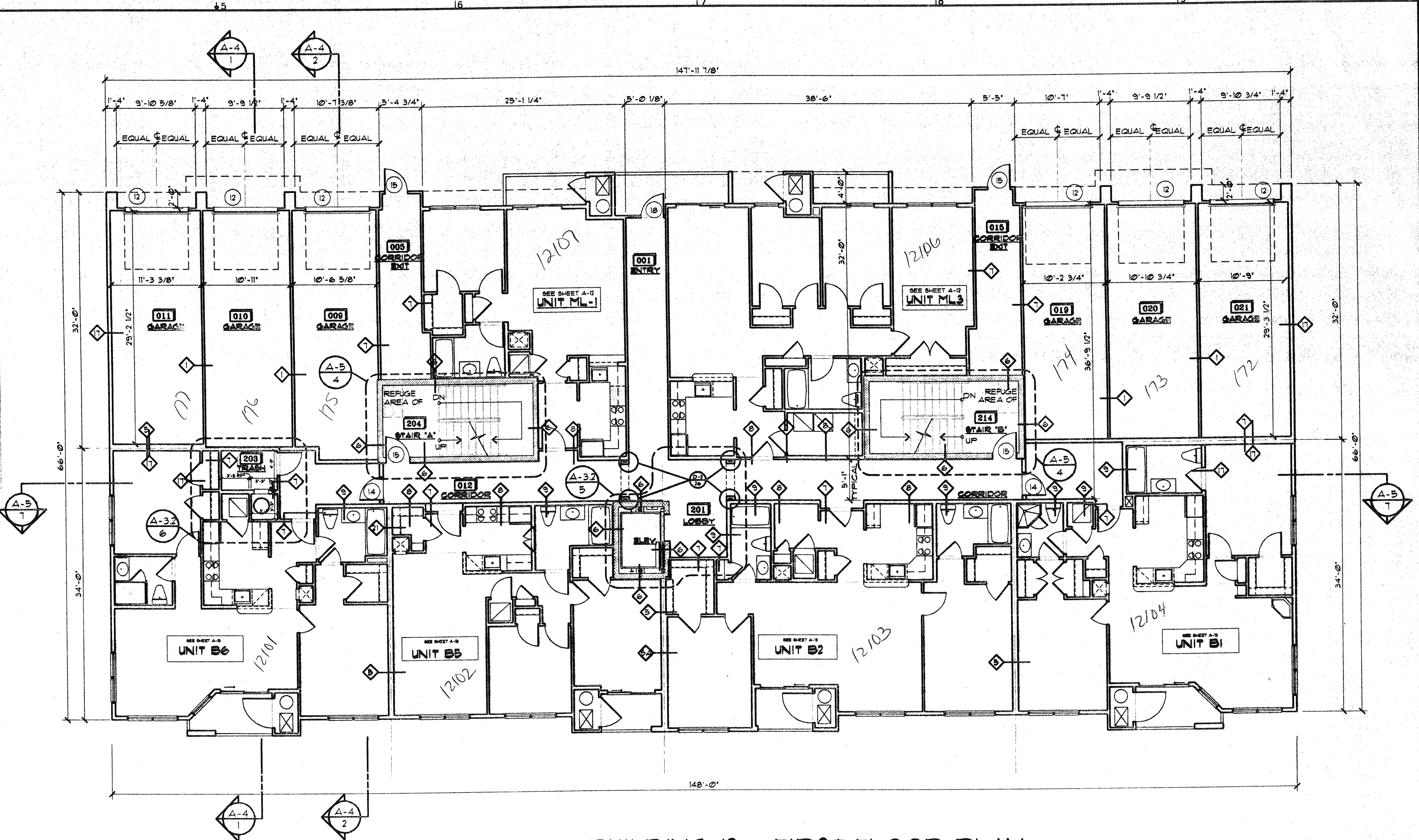
BLDG. TYPE "C" - MECH. PLANS
CRYSTAL RIDGE CLUB
WATCHING NJ
GINSBURG DEVELOPMENT CORPORATION



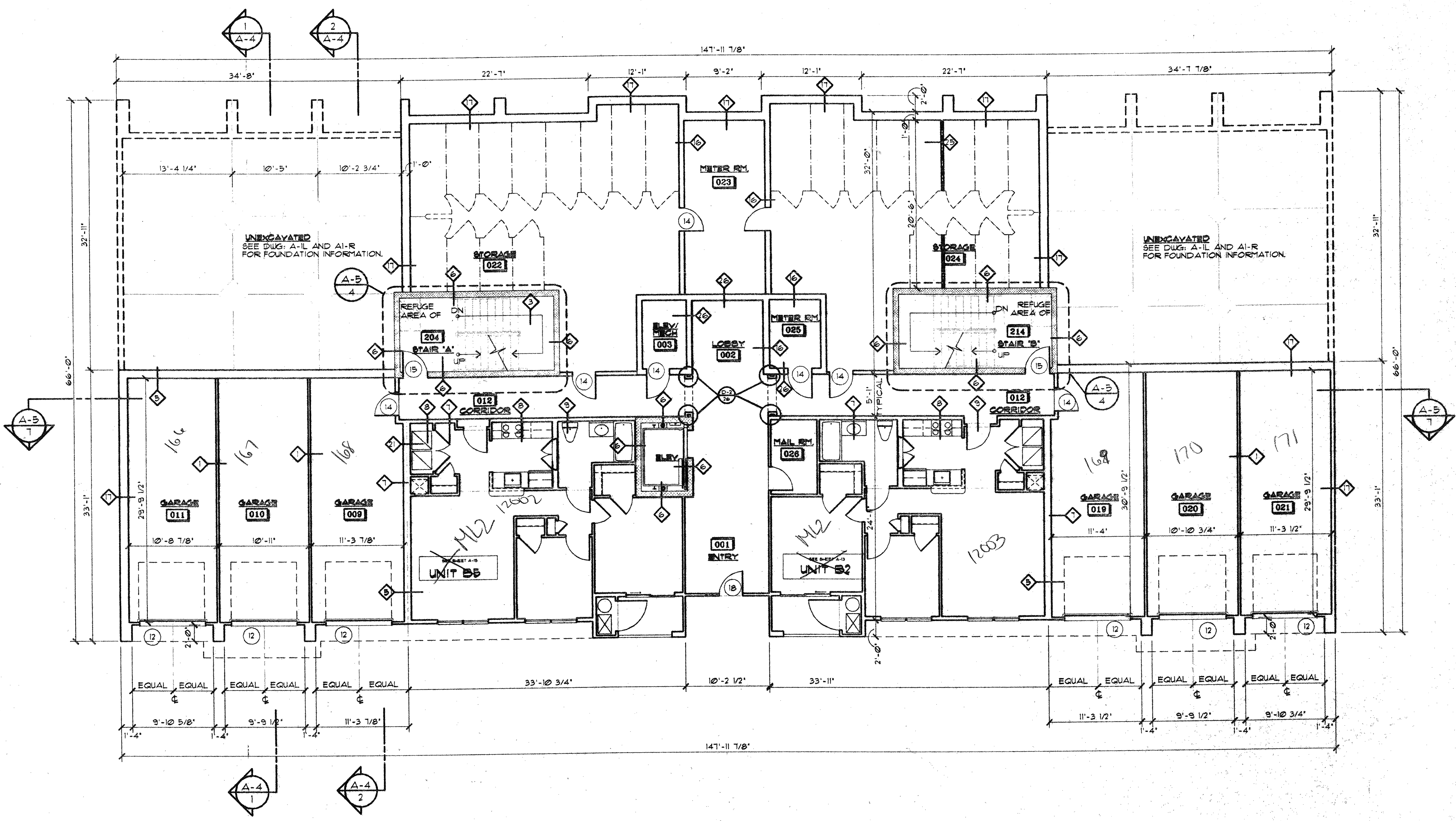
GENERAL NOTES

SCHEDULE COORDINATION
SEE SHEET A-11 FOR THE FOLLOWING:

- DOOR SCHEDULES
- WINDOW SCHEDULES
- ROOM FINISH SCHEDULES
- GENERAL NOTES
- INTERIOR ELEVATIONS



BUILDING 12 - FIRST FLOOR PLAN
1/8"=1'-0"



BUILDING 12 - BASEMENT PLAN
1/8"=1'-0"

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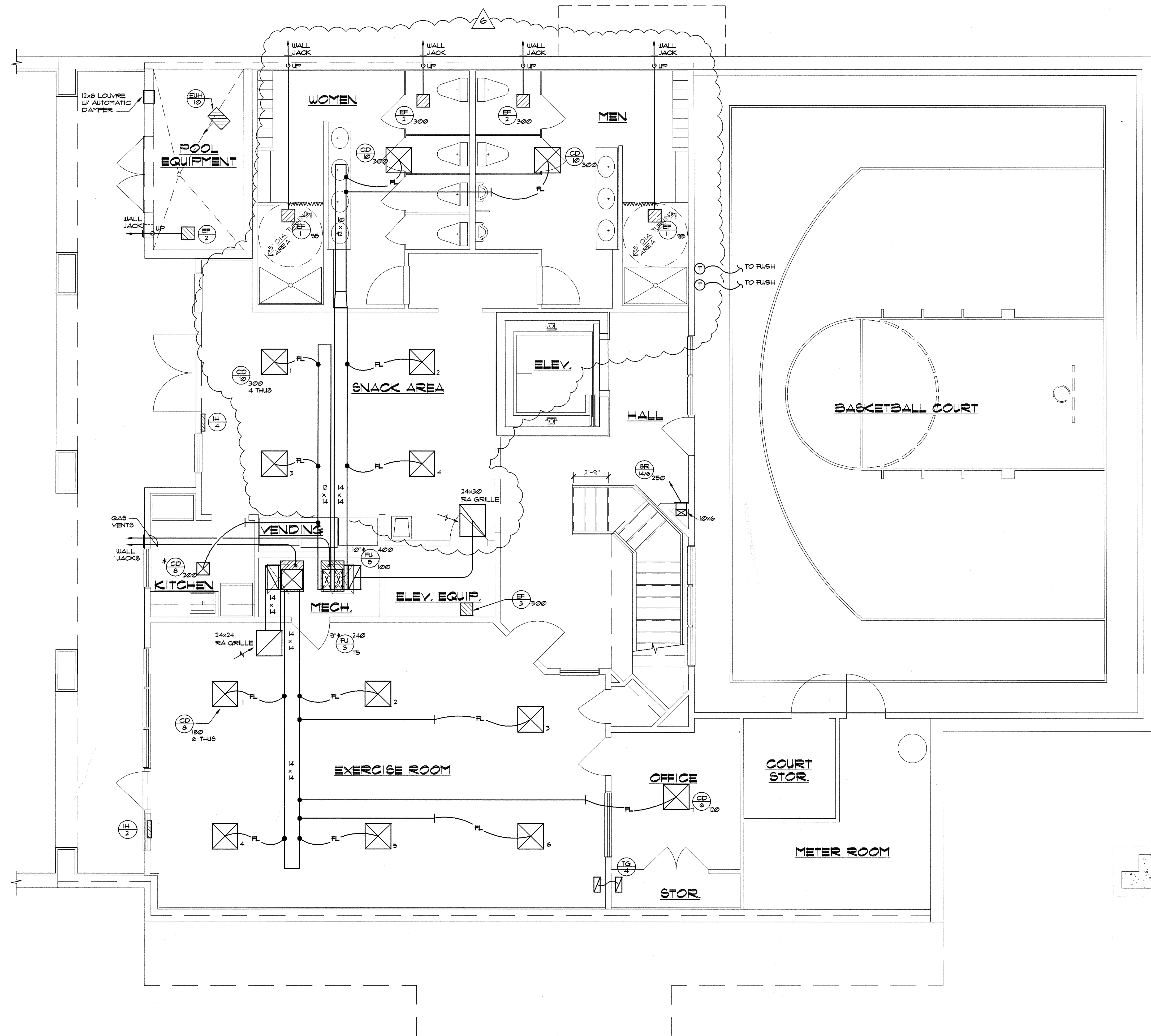
CHK'D: JMR
P.M.: GEORGE BAKER
P.A.: LAURA STAINES
PROJECT NO.: 15-1311-02

NO.	REVISION	DATE
A	NEW PERMIT/CONSTRUCTION SET	4/28/00
B	PRICING SET	5/22/00
C	BID/PERMIT SET	6/22/00

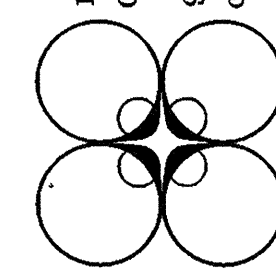
DATE: 4/28/00
SCALE: 1/8"=1'-0"
DRAWN BY: DNG

BUILDING 12 - BASEMENT PLAN
CRYSTAL RIDGE CLUB
WATCHUNG, NEW JERSEY
GINGERBREAD DEVELOPMENT CORPORATION

A-2



○ LOWER LEVEL PLAN
SCALE: 1/4" = 1'-0"



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collingswood, nj 08108 fax 856-858-2399

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240 North 22nd Street • Philadelphia, Pa. 19103
ARCHITECTS AND LAND PLANNERS

CHK'D:			
P.M. : GEORGE BAKER			
P.A. : LAURA C. STAINES			
PROJECT NO: 16-1311-03			
DATE			
G			
O			
NO.		REVISION	
1	FINAL COORDINATION PER 1-10-01 MTG.	1-10-01	
2	COORDINATION PER MEMO 2-22-01	2-22-01	
3	REVISED FIRST ISSUE	3-27-01	
4	REVISED LAYOUT	4-27-01	
5			
DRAWN BY:		SCALE:	DATE:
SR/KJC		NOTED	5-11-00

OWER LEVEL MECHANICAL PLAN

CRYSTAL RIDGE CLUB
BOROUGH OF WATCHUNG, NEW JERSEY

GINSBURG DEVELOPMENT CORPORATION

$$C \equiv H = M$$

RADON MITIGATION REQUIREMENTS

1. A CONTINUOUS VAPOR BARRIER NOT LESS THAN SIX-MIL (0.006 INCH, .152 MM) POLYETHYLENE CHLORIDE OR POLYETHYLENE WITH ANY SEAMS OVERLAPPED NOT LESS THAN 12 INCHES (305 MM), OR OTHER APPROVED MATERIALS, SHALL BE INSTALLED UNDER THE SLAB IN BASEMENT AND SLAB-ON-GRADE CONSTRUCTION AND ON THE SOIL IN CRAWL SPACE CONSTRUCTION.
2. FLOORS OF BASEMENTS AND SLAB-ON-GRADE CONSTRUCTION SHALL BE PLACED OVER A BASE COURSE, NOT LESS THAN FOUR INCHES (102 MM) IN THICKNESS, CONSISTING OF GRAVEL OR CRUSHED STONE CONTAINING NOT MORE THAN 10 PERCENT OF MATERIAL THAT PASSES THROUGH A NO. 4 SIEVE.
3. BASEMENT SLABS WITH INTERIOR FOUNDATION PIPE DRAINS INSTALLED SHALL HAVE A SOLID THREE-INCH MINIMUM DIAMETER VENT PIPE SECTION INSTALLED IN CONJUNCTION WITH THIS DRAINAGE SYSTEM WITH TERMINATION BETWEEN SIX AND 12 INCHES ABOVE THE SLAB AND APPROPRIATELY CAPPED OR CONNECTED TO AN INDEPENDENT VENT STACK PIPE TERMINATING AT AN APPROVED LOCATION ON THE EXTERIOR OF THE BUILDING.
4. BASEMENT SLABS WHICH DO NOT HAVE AN INTERIOR FOUNDATION PIPE DRAIN SHALL BE PROVIDED WITH ONE THREE-INCH MINIMUM SOLID VENT PIPE SECTION WITH A "T" PIPE FITTING FOR EVERY 1500 SQUARE FEET, OR PORTION THEREOF, OF SLAB AREA. THIS VENT PIPE SECTION TO BE INSTALLED INTO THE SUB-SLAB AGGREGATE. THE VERTICAL PORTION OF THE "T" PIPE FITTING SHALL TERMINATE BETWEEN SIX AND 12 INCHES ABOVE THE SLAB. THESE FITTINGS SHALL BE CLEARLY LABELED AND APPROPRIATELY CAPPED AND CONNECTED TO AN INDEPENDENT VENT STACK PIPE TERMINATING TO AN APPROVED LOCATION ON THE EXTERIOR OF THE BUILDING.
5. BASEMENT SLABS WITH FRENCH DRAINS OR CHANNEL DRAINS SHALL NOT BE ALLOWED UNLESS INTERIOR FOUNDATION PIPE DRAINS AS DESCRIBED IN THIS SECTION ARE INSTALLED.
6. JOINTS IN FOUNDATION WALLS AND FLOORS, INCLUDING, WITHOUT LIMITATION, CONTROL JOINTS BETWEEN SLAB SECTIONS POURED SEPARATELY, AND BETWEEN FOUNDATION WALL AND FLOOR (EXCEPT FOR FRENCH DRAINS OR CHANNEL DRAINS), AS WELL AS PENETRATIONS OF THE FOUNDATION WALLS AND FLOOR INCLUDING, BUT NOT LIMITED TO, UTILITY PENETRATIONS, SHALL BE SUBSTANTIALLY SEALED BY UTILIZING A NON-CRACKING POLYURETHANE OR SIMILAR CAULK, OR EQUIVALENT, IN ORDER TO CLOSE OFF THE SOIL GAS ENTRY ROUTES. ANY OPENINGS OR PENETRATIONS OF THE FLOOR OVER THE CRAWL SPACE SHALL BE SUBSTANTIALLY SEALED IN ORDER TO CLOSE OFF THE SOIL GAS ENTRY ROUTES.
7. UNTRAPPED FLOOR DRAINS SHALL BE PROVIDED WITH REMOVABLE STOPPERS WHICH SUBSTANTIALLY CLOSE OFF THE SOIL GAS ENTRY ROUTES.
8. A SUMP COVER WHICH SUBSTANTIALLY CLOSES OFF THE SOIL GAS ENTRY ROUTES SHALL BE PROVIDED FOR ALL SUMP INSTALLATIONS. IF FOUNDATION PIPE DRAINS TERMINATE AT A SUMP INSTALLATION AND PROVISIONS ARE MADE FOR VENTING FROM THE SUMP INSTALLATION, THE THREE-INCH DIAMETER SOLID VENT PIPE SECTION REQUIREMENT OF #3 ABOVE NEED NOT BE PROVIDED.
9. ANY DUCTWORK THAT IS ROUTED THROUGH A CRAWL SPACE OR BENEATH A SLAB SHALL BE PROPERLY TAPED OR SEALED.
10. SEALANT MATERIALS THAT SUBSTANTIALLY CLOSE OFF THE SOIL GAS ENTRY ROUTES SHALL BE INSTALLED ON ANY DOORS OR OTHER OPENINGS BETWEEN BASEMENTS AND ADJOINING CRAWL SPACES THAT ARE VENTED TO THE EXTERIOR.
11. THE TOPS OF FOUNDATION WALLS, INCLUDING, WITHOUT LIMITATION, INTERIOR LEDGES THAT ARE CONSTRUCTED OF HOLLOW MASONRY UNITS SHALL BE CAPPED OR THE VOIDS SHALL BE COMPLETELY FILLED.
12. WHEN CAPPED INTERIOR VENT PIPE SECTIONS ARE PROVIDED, OR VENTING FROM THE SUMP INSTALLATION IS PROVIDED, IN ACCORDANCE WITH #3, #4, OR #5 ABOVE, AN ADEQUATELY SUPPORTED THREE-INCH MINIMUM DIAMETER SOLID VENT PIPE SHALL BE INSTALLED FROM A POINT THAT IS WITHIN 10 FEET OF THE CAPPED INTERIOR VENT PIPE SECTION OF SUMP INSTALLATION, THROUGH ANY ENCLOSED PORTIONS OF THE BUILDING, TERMINATING AT AN APPROVED LOCATION ON THE EXTERIOR OF THE BUILDING. THIS VENT PIPE SHALL BE CLEARLY LABELED AND SHALL MEET THE TERMINATION REQUIREMENTS OF SECTION 12.4 OF THE PLUMBING SUBCODE. JOINTS AND CONNECTIONS IN THE VENT PIPE SHALL BE GAS TIGHT. UNUSED OPENINGS SHALL BE CLOSED OR CAPPED.

APPENDIX B

TRC Sub-Slab Sampling Field Notes

2/17/11

(10)

2542

0905 TRC (EC + MM) onsite to conduct vapor intrusion investigation

weather: 50°s, clear, sunny

0910 TRC (Seth McCray) onsite

0920 Started setting up in the elevator shaft of Bldg 4. Mike + Frank locked out the elevator. MM did lock out by out

0933 Begin purging to determine we have no helium deflection

0935 Filling up the A398 canister @ -30 Hg, FC175 (Sample SV-4)

0948 Stopped filling A398 @ -5 Hg

1000 Patched the 1/2" diameter hole, removed the tag out and took down the "out of service" elevator tags.

(10)

2542

(11)

2/17/11

1005 MM conducted Hg's bulgate meeting

1013 Setting up in the elevator shaft of Bldg 9. Mike + Frank assisted MM w/ lock out tag out

1030 Drilling 1/2" hole

1033 Begin purging to determine we have no helium deflection after sealing

1036 Filling up the A590 canister @ -30 Hg, FC109 (Sample SV-3)

1048 Stopped filling A398 @ -5 Hg

1100 Patched the hole, removed the lock out tag out + took down the "out of service" elevator tags

(11)

2/17/11 (12) 2542

1115 Break for lunch

1150 End lunch break

1200 Setting up in the elevator shaft of Bldg 5. Frank assisted MM w/ back out tag out

1218 Drilling $\frac{1}{2}$ " diameter hole

1223 Began purging to determine no helium detection after sealing

1226 Filling up the A600 canister @ -28 Hg, FC 402 (sample SV-5)

1236 Stopped filling A600 @ -5 Hg

1245 Patched the HLe removed back out tag out, removed "out of service" elevator tags

1315 Waiting for Mike to do the back out tag out

(12)

2547 (13) 2/17/11

1330 Setting up @ Bldg 6. Frank and MM did back out tag out

1330 Drilling $\frac{1}{2}$ " HLe

1335 Purging to determine no helium detection after sealing

1339 Filling up the A791 canister @ -28 Hg FC 071, (sample SV-6)

1348 Stopped filling A791 @ Hg

1400 Patched the HLe, removed the back out tag out and the elevator tag

1408 Setting up @ Bldg 7. Mike and MM did back out tag out

1412 Drilling $\frac{1}{2}$ " HLe

(13)

2/17/11

(19)

2542

1415 Purgung to determine no helium detection after sealing

1420 Filling up the A592 canister @ -30 kg, FC 100, (Sample SV-7)

1430 Stopped filling A592 @ -5 kg

1440 Patched the hole, removed lock out tag out + elevator tags.

1446 Setting up @ Bldg 8. Mike and NM did lock out tag out. Tim Biorcz (Property Specialist) onsite

1453 Drilling 1 1/2" hole

1458 Purgung to determine no helium detection after sealing

1505 Filling up the A565 canister @ -31 kg, FC 286, (Sample SV-8)

(20)

2542

(18)

2/17/11

1315 Stopped filling A565 @ -5 kg

NOR: Patched the hole, removed the lock out tag out + elevator tags after duplicate sampling

1324 Stopped filling @ Duplicate sample @ Bldg 8

1316 Filling up the A712 canister @ -30 kg, FC 278, (Sample SV-8 (Dup))

1324 Stopped filling A712 @ -5 kg

1325 Tim Spitzer after taking some field notes and a couple pics

1331 Returning the door keys + the elevator key to Mike.

1340 The offsite

~~DeaCo~~

2/18/11

(17)

2542

0930 TRC (LC, MM) enter to
containe VI sub data
sampling

weather: 50's, overcast, cool

0940 Conducted Hq's meeting

0950 Setting up @ Bldg 14. Frank
and MM did back out tag
out.

Note: The elevator hydraulic pump
is leaking in the elevator
room + hydraulic fluid
is on the floor. There is
an odor in that room also.

1004 Drilling $\frac{1}{2}$ " diameter hole

1008 Purgung to determine there
is no helium detect con
after sealing

(18)

2542

(17)

2/18/11

1013 Filling up the A573 canister
@ 29 kg, FC388 (Sample SV-14)

1023 Stopped filling A573 @ 51 kg

1030 Patched the hole, removed
back out tag out and elevator
"out of order" signs

1038 Setting up @ Bldg 12.
Frank and MM did back
out tag out

1045 Drilling $\frac{1}{2}$ " diameter hole

1050 Purgung to determine there
is no helium detect con
after sealing

1055 Filling up the A500 canister
@ 27 kg, FC177 (Sample SV-12)

1108 Stopped filling A500 @ 21 kg

(19)

2/18/11

(P)

2542

1118 Patched the hole, removed
lock out tag out and
elevator tags

1130 Setting up @ Bldg 11.
Mike + MM did lock out
tag out

1142 Drilling $\frac{1}{2}$ " diameter hole

1147 Purging to ensure no helium
detection after sealing

1152 Filling up the A796 canister
@-30 Hz, FC 57 (Sample SV-11)

1203 Stopped filling A796 @-5 Hz

1210 Patched the hole, removed
lock out tag out and
elevator tags

(P)

2542

(P)

2/18/11

1228 Setting up @ Bldg 10 - mm-Mike
did lock out tag out

1233 Drilling $\frac{1}{2}$ " diameter hole

1237 Purging to ensure no helium
detection after sealing

1242 Filling up the A580 canister
@-28 Hz, FC 309 (Sample SV-10)

1252 Stopped filling A580 @-5 Hz

1300 Patched the hole, removed
lock out tag out and
elevator tags

1310 Setting up @ Bldg 11 - MM
did lock out tag out

1314 Drilling the $\frac{1}{2}$ " hole

1320 Purging to ensure no helium
detection after sealing
(P)

2/18/11

(20)

2541

1325 Filling the AS14 container
2-29th, FC 163, (Sample 50-11)

1335 Stopped filling the AS14
2-5th 14

1345 Patched the hole, removed
lock out tag out and
the elevator tags

1352 Returning the elevator
keys to Mike

1400 TRC off site

~~2-29th~~

APPENDIX C

TRC Indoor Air Building Survey and Sampling Forms



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Scott McCray Date: 7/18/2011
Preparer's affiliation: TRC Environmental Corp. Phone #: 973-564-6006
Site Name: Former LEC Facility Case #: 90038

Part I - Occupants

Building Address: Ground Floor Storage Unit, 3 Crystal Ridge Terrace, North Plainfield, NJ
Property Contact: Maintenance Supervisor Owner / Renter / other: _____
Contact's Phone: home _____ work _____ cell _____
of Building occupants: Children under age 13 N/A Children age 13-18 N/A Adults N/A

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial
Describe building: _____ Year constructed: 2002-2003
Sensitive population: day care / nursing home / hospital / school / other (specify): _____
Number of floors below grade: 0 (full basement / crawl space / slab on grade)
Number of floors at or above grade: 3
Depth of basement below grade surface: N/Aft. Basement size: N/A ft²
Basement floor construction: concrete / dirt / floating / stone / other (specify): _____
Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____
Basement sump present? Y. Sump pump? Yes / No (In Elevator Shaft) Water in sump? Yes / No
Type of heating system (circle all that apply):
hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): Space is Not Heated
Type of ventilation system (circle all that apply):
central air conditioning mechanical fans bathroom ventilation fans
Individual conditioning units kitchen range hood fan outside air intake
other (specify): Space is Not Ventilated
Type of fuel utilized (circle all that apply):
Natural gas / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings?
Is there a whole house fan?

Yes / No
Yes / No

Septic system?

Yes / Yes (but not used) / No

Irrigation/private well?

Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes No active passive

Sub-slab vapor/moisture barrier in place? Yes No (assumed)

Type of barrier: Unknown

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): Former LEC Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): N/A

Heavy vehicular traffic nearby (or other mobile sources): US Route 22

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	-	-
Gas-powered equipment	-	-
Kerosene storage cans	-	-
Paints / thinners / strippers	-	-
Cleaning solvents	-	-
Oven cleaners	-	-
Carpet / upholstery cleaners	-	-
Other house cleaning products	-	-
Moth balls	-	-
Polishes / waxes	-	-
Insecticides	-	-
Furniture / floor polish	-	-
Nail polish / polish remover	-	-
Hairspray	-	-
Cologne / perfume	-	-
Air fresheners	-	-
Fuel tank (inside building)	-	-
Wood stove or fireplace	-	-
New furniture / upholstery	-	-
New carpeting / flooring	-	-
Hobbies - glues, paints, etc.	-	-

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No **Ground Floor of Building Has Garages**

If so, is a car usually parked in the garage? **Unknown**

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? **Unknown** Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes No

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when and where? _____

Part VI – Sampling Information

Sample Technician: Scott McCray Phone number: 973-564-6006

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Accutest Labs (Dayton, NJ)

Sample locations (floor, room): _____

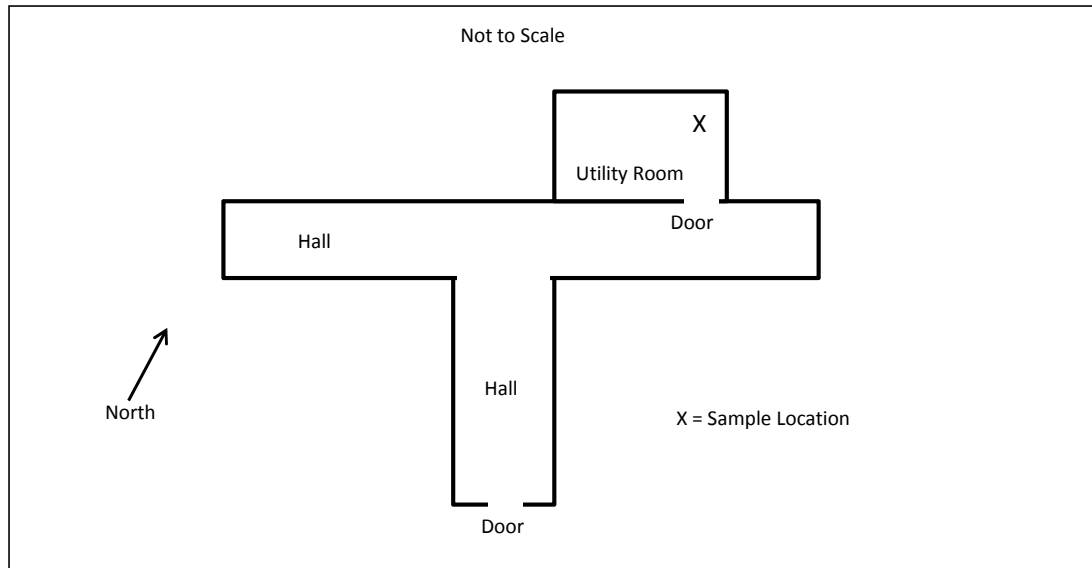
Field ID #: Bldg 3 CR Field ID #: _____

Field ID #: _____ Field ID #: _____

Were "Instructions for Occupants" followed? Yes / No (Assumed)

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Sunny, temperatures ranging from 70 to 90 degrees Fahrenheit.

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Sample location biased to unsealed water pipe penetration through poured concrete wall (soil present
on opposite side of wall)

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Scott McCray Date: 7/18/2011
Preparer's affiliation: TRC Environmental Corp. Phone #: 973-564-6006
Site Name: Former LEC Facility Case #: 90038

Part I - Occupants

Building Address: 6 Crystal Ridge Drive, Apartment 6006, Watchung, NJ
Property Contact: Maintenance Supervisor Owner Renter / other: _____
Contact's Phone: home _____ work _____ cell _____
of Building occupants: Children under age 13 N/A Children age 13-18 N/A Adults N/A

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial
Describe building: _____ Year constructed: 2002-2003
Sensitive population: day care / nursing home / hospital / school / other (specify): _____
Number of floors below grade: 0 (full basement / crawl space / slab on grade)
Number of floors at or above grade: 3
Depth of basement below grade surface: N/Aft. Basement size: N/A ft²
Basement floor construction: concrete / dirt / floating / stone / other (specify): _____
Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____
Basement sump present? Y. Sump pump? Yes / No (In Elevator Shaft) Water in sump? Yes / No
Type of heating system (circle all that apply):
hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): _____
Type of ventilation system (circle all that apply):
central air conditioning mechanical fans bathroom ventilation fans
individual conditioning units kitchen range hood fan outside air intake
other (specify): _____

Type of fuel utilized (circle all that apply):
Natural gas / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings?
Is there a whole house fan?

Yes / No
Yes / No

Septic system?

Yes / Yes (but not used) / No

Irrigation/private well?

Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes No active passive

Sub-slab vapor/moisture barrier in place? Yes No (assumed)

Type of barrier: Unknown

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): Former LEC Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): N/A

Heavy vehicular traffic nearby (or other mobile sources): US Route 22

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	-	-
Gas-powered equipment	-	-
Kerosene storage cans	-	-
Paints / thinners / strippers	Kitchen	No
Cleaning solvents	Kitchen	No
Oven cleaners	-	-
Carpet / upholstery cleaners	Kitchen	No
Other house cleaning products	Kitchen, Bathroom	No
Moth balls	-	-
Polishes / waxes	-	-
Insecticides	Kitchen	No
Furniture / floor polish	-	-
Nail polish / polish remover	Bathroom	No
Hairspray	Bathroom	No
Cologne / perfume	Bathroom	No
Air fresheners	Kitchen	No
Fuel tank (inside building)	-	-
Wood stove or fireplace	-	-
New furniture / upholstery	-	-
New carpeting / flooring	-	-
Hobbies - glues, paints, etc.	-	-

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No **Ground Floor of Building Has Garages**

If so, is a car usually parked in the garage? **Unknown**

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? **Unknown** Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes No

If yes, how often? _____ weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Scott McCray Phone number: 973-564-6006

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Accutest Labs (Dayton, NJ)

Sample locations (floor, room): _____

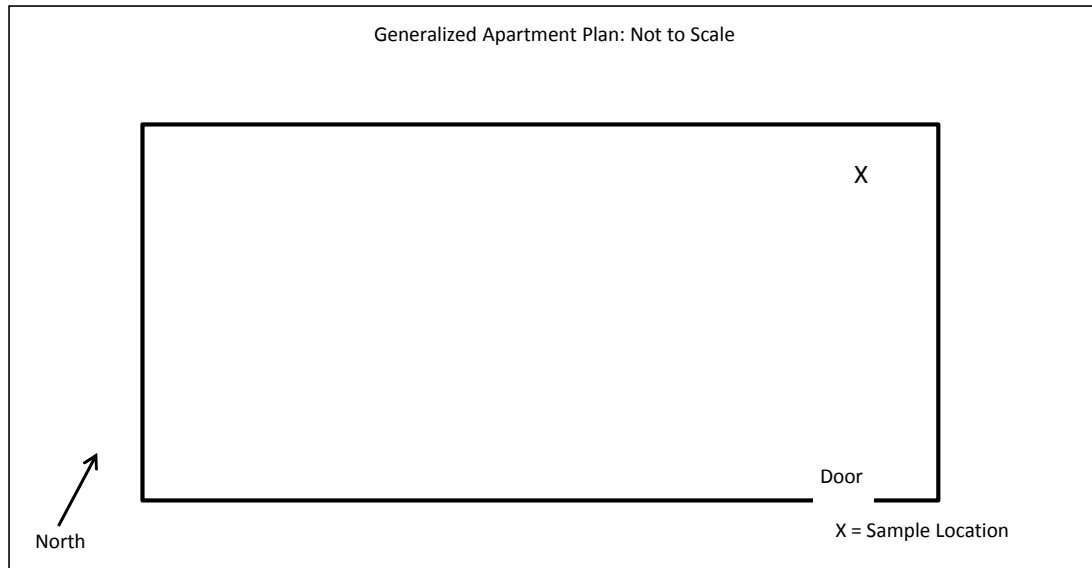
Field ID #: 6006 CR Field ID #: _____

Field ID #: _____ Field ID #: _____

Were "Instructions for Occupants" followed? Yes / No (Assumed)

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Sunny, temperatures ranging from 70 to 90 degrees Fahrenheit.

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Other products in apartment included shoe water repellent, sneaker cleaner, shoe cleaner, Glade plug-ins, scented candles, and carpet spot treater.

Tenant upstairs smokes, and smoke sometimes enters apartment from upstairs tenant space.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Scott McCray Date: 7/18/2011
Preparer's affiliation: TRC Environmental Corp. Phone #: 973-564-6006
Site Name: Former LEC Facility Case #: 90038

Part I - Occupants

Building Address: 6 Crystal Ridge Drive, Apartment 6007, Watchung, NJ
Property Contact: Maintenance Supervisor Owner Renter / other: _____
Contact's Phone: home _____ work _____ cell _____
of Building occupants: Children under age 13 N/A Children age 13-18 N/A Adults N/A

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial
Describe building: _____ Year constructed: 2002-2003
Sensitive population: day care / nursing home / hospital / school / other (specify): _____
Number of floors below grade: 0 (full basement / crawl space / slab on grade)
Number of floors at or above grade: 3
Depth of basement below grade surface: N/Aft. Basement size: N/A ft²
Basement floor construction: concrete / dirt / floating / stone / other (specify): _____
Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____
Basement sump present? Y. Sump pump? Yes / No (In Elevator Shaft) Water in sump? Yes / No
Type of heating system (circle all that apply):
hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): _____
Type of ventilation system (circle all that apply):
central air conditioning mechanical fans bathroom ventilation fans
individual conditioning units kitchen range hood fan outside air intake
other (specify): _____

Type of fuel utilized (circle all that apply):
Natural gas / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings?
Is there a whole house fan?

Yes / No
Yes / No

Septic system?

Yes / Yes (but not used) / No

Irrigation/private well?

Yes / Yes (but not used) / No

Type of ground cover outside of building:

grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place?

Yes No

active passive

Sub-slab vapor/moisture barrier in place?

Yes No

(assumed)

Type of barrier:

Unknown

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius):

Former LEC Facility

Other stationary sources nearby (gas stations, emission stacks, etc.):

N/A

Heavy vehicular traffic nearby (or other mobile sources):

US Route 22

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	-	-
Gas-powered equipment	-	-
Kerosene storage cans	-	-
Paints / thinners / strippers	-	-
Cleaning solvents	-	-
Oven cleaners	-	-
Carpet / upholstery cleaners	-	-
Other house cleaning products	-	-
Moth balls	-	-
Polishes / waxes	-	-
Insecticides	Kitchen	No
Furniture / floor polish	-	-
Nail polish / polish remover	-	-
Hairspray	-	-
Cologne / perfume	-	-
Air fresheners	Kitchen	No
Fuel tank (inside building)	-	-
Wood stove or fireplace	-	-
New furniture / upholstery	-	-
New carpeting / flooring	-	-
Hobbies - glues, paints, etc.	-	-

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No **Ground Floor of Building Has Garages**

If so, is a car usually parked in the garage? **Unknown**

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? **Unknown** Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes No

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Scott McCray Phone number: 973-564-6006

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Accutest Labs (Dayton, NJ)

Sample locations (floor, room): _____

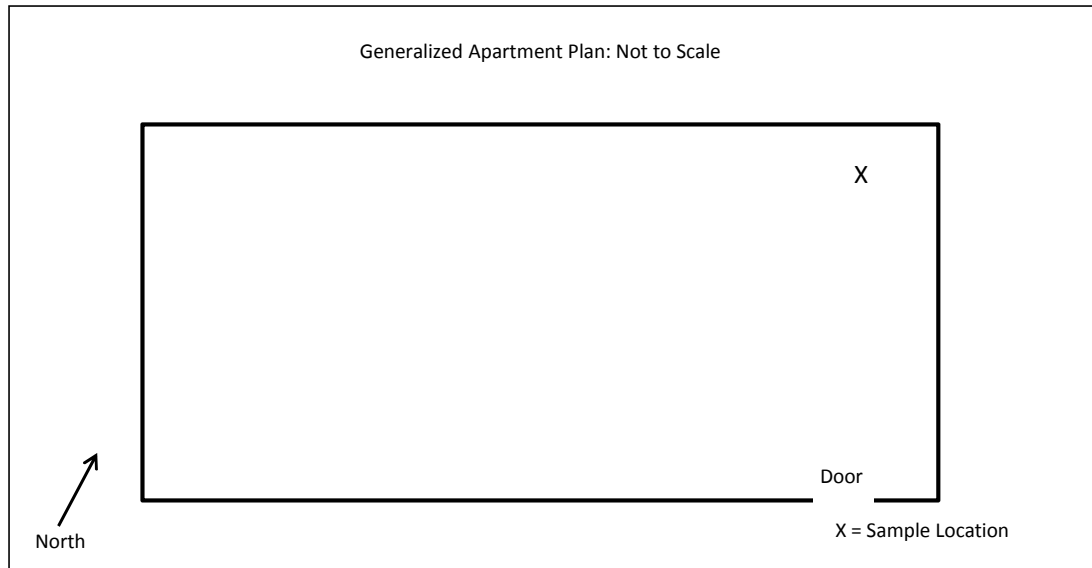
Field ID #: 6007 CR Field ID #: _____

Field ID #: _____ Field ID #: _____

Were "Instructions for Occupants" followed? Yes / No (Assumed)

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Sunny, temperatures ranging from 70 to 90 degrees Fahrenheit.

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Other products in apartment included carpet spot treater.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Scott McCray Date: 7/18/2011
Preparer's affiliation: TRC Environmental Corp. Phone #: 973-564-6006
Site Name: Former LEC Facility Case #: 90038

Part I - Occupants

Building Address: 7 Summit Way, Apartment 7006, Watchung, NJ
Property Contact: Maintenance Supervisor Owner Renter / other: _____
Contact's Phone: home _____ work _____ cell _____
of Building occupants: Children under age 13 N/A Children age 13-18 N/A Adults N/A

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial
Describe building: _____ Year constructed: 2002-2003
Sensitive population: day care / nursing home / hospital / school / other (specify): _____
Number of floors below grade: 0 (full basement / crawl space / slab on grade)
Number of floors at or above grade: 3
Depth of basement below grade surface: N/Aft. Basement size: N/A ft²
Basement floor construction: concrete / dirt / floating / stone / other (specify): _____
Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____
Basement sump present? Y Sump pump? Yes / No (In Elevator Shaft) Water in sump? Yes / No
Type of heating system (circle all that apply):
hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): _____
Type of ventilation system (circle all that apply):
central air conditioning mechanical fans bathroom ventilation fans
individual conditioning units kitchen range hood fan outside air intake
other (specify): _____
Type of fuel utilized (circle all that apply):
Natural gas electric / fuel oil / wood / coal / solar / kerosene
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No
Is there a whole house fan? Yes / No
Septic system? Yes / Yes (but not used) / No

Irrigation/private well?

Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes No active passive

Sub-slab vapor/moisture barrier in place? Yes No (assumed)

Type of barrier: Unknown

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): Former LEC Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): N/A

Heavy vehicular traffic nearby (or other mobile sources): US Route 22

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	-	-
Gas-powered equipment	-	-
Kerosene storage cans	-	-
Paints / thinners / strippers	-	-
Cleaning solvents	-	-
Oven cleaners	-	-
Carpet / upholstery cleaners	Kitchen	No
Other house cleaning products	Kitchen	No
Moth balls	-	-
Polishes / waxes	-	-
Insecticides	-	-
Furniture / floor polish	Kitchen	No
Nail polish / polish remover	Bathroom	No
Hairspray	-	-
Cologne / perfume	-	-
Air fresheners	-	-
Fuel tank (inside building)	-	-
Wood stove or fireplace	-	-
New furniture / upholstery	-	-
New carpeting / flooring	-	-
Hobbies - glues, paints, etc.	-	-

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No **Ground Floor of Building Has Garages**

If so, is a car usually parked in the garage? **Unknown**

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? **Unknown** Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes No

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Scott McCray Phone number: 973-564-6006

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Accutest Labs (Dayton, NJ)

Sample locations (floor, room): _____

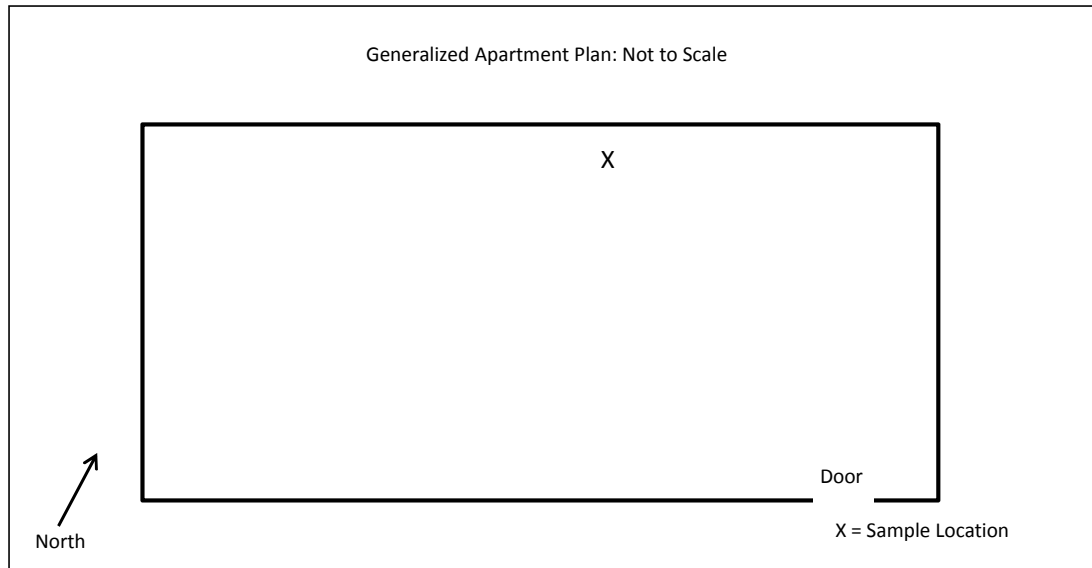
Field ID #: 7006 CR Field ID #: _____

Field ID #: _____ Field ID #: _____

Were “Instructions for Occupants” followed? Yes / No (Assumed)

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Sunny, temperatures ranging from 70 to 90 degrees Fahrenheit.

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Other products in apartment included scented candles, carpet spot cleaner, and vinyl/leather conditioner

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Scott McCray Date: 7/18/2011
Preparer's affiliation: TRC Environmental Corp. Phone #: 973-564-6006
Site Name: Former LEC Facility Case #: 90038

Part I - Occupants

Building Address: 7 Summit Way, Apartment 7007, Watchung, NJ
Property Contact: Maintenance Supervisor Owner Renter / other: _____
Contact's Phone: home _____ work _____ cell _____
of Building occupants: Children under age 13 N/A Children age 13-18 N/A Adults N/A

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial
Describe building: _____ Year constructed: 2002-2003
Sensitive population: day care / nursing home / hospital / school / other (specify): _____
Number of floors below grade: 0 (full basement / crawl space / slab on grade)
Number of floors at or above grade: 3
Depth of basement below grade surface: N/Aft. Basement size: N/A ft²
Basement floor construction: concrete / dirt / floating / stone / other (specify): _____
Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____
Basement sump present? Y. Sump pump? Yes / No (In Elevator Shaft) Water in sump? Yes / No
Type of heating system (circle all that apply):
hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): _____
Type of ventilation system (circle all that apply):
central air conditioning mechanical fans bathroom ventilation fans
individual conditioning units kitchen range hood fan outside air intake
other (specify): _____
Type of fuel utilized (circle all that apply):
Natural gas electric / fuel oil / wood / coal / solar / kerosene
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No
Is there a whole house fan? Yes / No
Septic system? Yes / Yes (but not used) / No

Irrigation/private well?

Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes No active passive

Sub-slab vapor/moisture barrier in place? Yes No (assumed)

Type of barrier: Unknown

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): Former LEC Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): N/A

Heavy vehicular traffic nearby (or other mobile sources): US Route 22

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	-	-
Gas-powered equipment	-	-
Kerosene storage cans	-	-
Paints / thinners / strippers	-	-
Cleaning solvents	-	-
Oven cleaners	Closet	No
Carpet / upholstery cleaners	Closet	No
Other house cleaning products	Closet/Bathroom	No
Moth balls	-	-
Polishes / waxes	Closet	No
Insecticides	-	-
Furniture / floor polish	Closet	No
Nail polish / polish remover	Closet/Bathroom	No
Hairspray	-	-
Cologne / perfume	-	-
Air fresheners	Closet/Bathroom	No
Fuel tank (inside building)	-	-
Wood stove or fireplace	-	-
New furniture / upholstery	-	-
New carpeting / flooring	-	-
Hobbies - glues, paints, etc.	-	-

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No **Ground Floor of Building Has Garages**

If so, is a car usually parked in the garage? **Unknown**

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? **Unknown** Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes No

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Scott McCray Phone number: 973-564-6006

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Accutest Labs (Dayton, NJ)

Sample locations (floor, room): _____

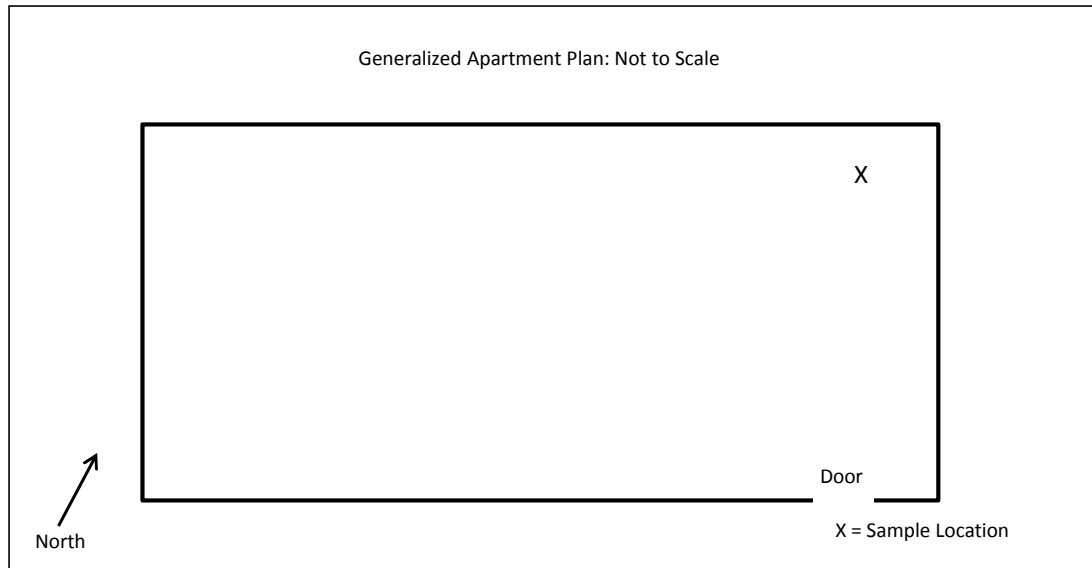
Field ID #: 7007 CR Field ID #: _____

Field ID #: _____ Field ID #: _____

Were "Instructions for Occupants" followed? Yes / No (Assumed)

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Sunny, temperatures ranging from 70 to 90 degrees Fahrenheit.

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Other products in apartment included scented candles, fabric/leather repair adhesive.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Scott McCray Date: 7/18/2011
Preparer's affiliation: TRC Environmental Corp. Phone #: 973-564-6006
Site Name: Former LEC Facility Case #: 90038

Part I - Occupants

Building Address: 12 Crystal Ridge Drive, Apartment 12002, Watchung, NJ
Property Contact: Maintenance Supervisor Owner Renter / other: _____
Contact's Phone: home _____ work _____ cell _____
of Building occupants: Children under age 13 N/A Children age 13-18 N/A Adults N/A

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial
Describe building: _____ Year constructed: 2002-2003
Sensitive population: day care / nursing home / hospital / school / other (specify): _____
Number of floors below grade: 0 (full basement / crawl space / slab on grade)
Number of floors at or above grade: 3
Depth of basement below grade surface: N/Aft. Basement size: N/A ft²
Basement floor construction: concrete / dirt / floating / stone / other (specify): _____
Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____
Basement sump present? Y. Sump pump? Yes / No (In Elevator Shaft) Water in sump? Yes / No
Type of heating system (circle all that apply):
hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): _____
Type of ventilation system (circle all that apply):
central air conditioning mechanical fans bathroom ventilation fans
individual conditioning units kitchen range hood fan outside air intake
other (specify): _____
Type of fuel utilized (circle all that apply):
Natural gas electric / fuel oil / wood / coal / solar / kerosene
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No
Is there a whole house fan? Yes / No
Septic system? Yes / Yes (but not used) / No

Irrigation/private well?

Yes / Yes (but not used) / No

Type of ground cover outside of building:

grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place?

Yes No

active passive

Sub-slab vapor/moisture barrier in place?

Yes No

(assumed)

Type of barrier:

Unknown

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius):

Former LEC Facility

Other stationary sources nearby (gas stations, emission stacks, etc.):

N/A

Heavy vehicular traffic nearby (or other mobile sources):

US Route 22

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	-	-
Gas-powered equipment	-	-
Kerosene storage cans	-	-
Paints / thinners / strippers	-	-
Cleaning solvents	-	-
Oven cleaners	-	-
Carpet / upholstery cleaners	-	-
Other house cleaning products	Kitchen	No
Moth balls	-	-
Polishes / waxes	Kitchen	No
Insecticides	-	-
Furniture / floor polish	-	-
Nail polish / polish remover	-	-
Hairspray	-	-
Cologne / perfume	-	-
Air fresheners	-	-
Fuel tank (inside building)	-	-
Wood stove or fireplace	-	-
New furniture / upholstery	-	-
New carpeting / flooring	-	-
Hobbies - glues, paints, etc.	-	-

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No **Ground Floor of Building Has Garages**

If so, is a car usually parked in the garage? **Unknown**

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? **Unknown** Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No **3 weeks prior to sampling**

If yes, how often? _____ weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Scott McCray Phone number: 973-564-6006

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Accutest Labs (Dayton, NJ)

Sample locations (floor, room): _____

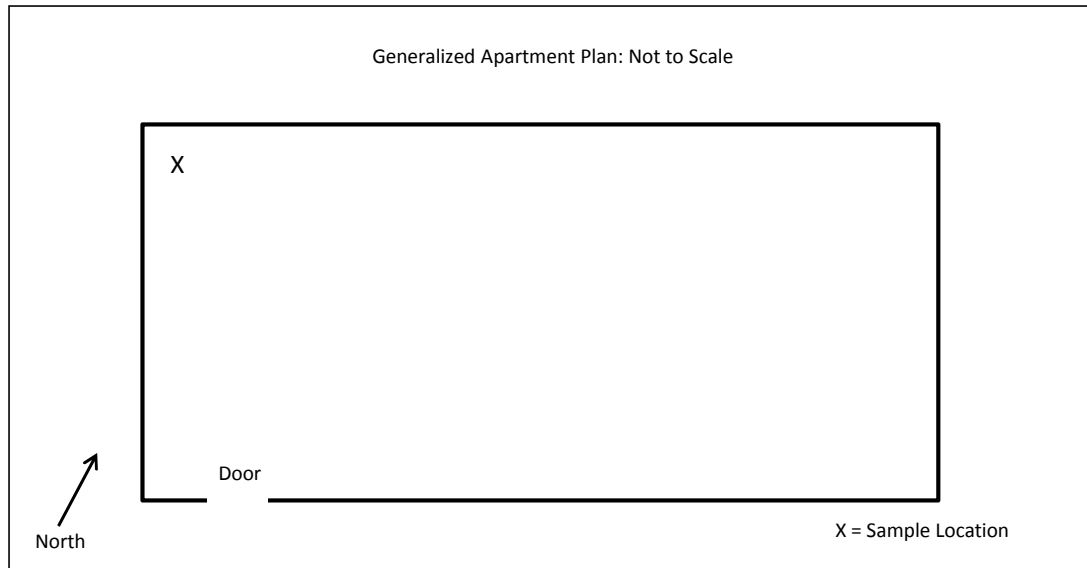
Field ID #: 12002 CR Field ID #: _____

Field ID #: _____ Field ID #: _____

Were "Instructions for Occupants" followed? Yes / No (Assumed)

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Sunny, temperatures ranging from 70 to 90 degrees Fahrenheit.

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Other products in apartment included scented candles, carpet spot cleaner.

Building hallway painted recently. Building hallway has odor resembling solvent or cleaning product.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Scott McCray Date: 7/18/2011
Preparer's affiliation: TRC Environmental Corp. Phone #: 973-564-6006
Site Name: Former LEC Facility Case #: 90038

Part I - Occupants

Building Address: 12 Crystal Ridge Drive, Apartment 12003, Watchung, NJ
Property Contact: Maintenance Supervisor Owner Renter / other: _____
Contact's Phone: home _____ work _____ cell _____
of Building occupants: Children under age 13 N/A Children age 13-18 N/A Adults N/A

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial
Describe building: _____ Year constructed: 2002-2003
Sensitive population: day care / nursing home / hospital / school / other (specify): _____
Number of floors below grade: 0 (full basement / crawl space / slab on grade)
Number of floors at or above grade: 3
Depth of basement below grade surface: N/Aft. Basement size: N/A ft²
Basement floor construction: concrete / dirt / floating / stone / other (specify): _____
Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____
Basement sump present? Y Sump pump? Yes / No (In Elevator Shaft) Water in sump? Yes / No
Type of heating system (circle all that apply):
hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): _____
Type of ventilation system (circle all that apply):
central air conditioning mechanical fans bathroom ventilation fans
individual conditioning units kitchen range hood fan outside air intake
other (specify): _____
Type of fuel utilized (circle all that apply):
Natural gas electric / fuel oil / wood / coal / solar / kerosene
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No
Is there a whole house fan? Yes / No
Septic system? Yes / Yes (but not used) / No

Irrigation/private well?

Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes No active passive

Sub-slab vapor/moisture barrier in place? Yes No (assumed)

Type of barrier: Unknown

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): Former LEC Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): N/A

Heavy vehicular traffic nearby (or other mobile sources): US Route 22

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	-	-
Gas-powered equipment	-	-
Kerosene storage cans	-	-
Paints / thinners / strippers	-	-
Cleaning solvents	-	-
Oven cleaners	-	-
Carpet / upholstery cleaners	Bathroom	No
Other house cleaning products	Bathroom	No
Moth balls	-	-
Polishes / waxes	-	-
Insecticides	-	-
Furniture / floor polish	-	-
Nail polish / polish remover	Bathroom	No
Hairspray	-	-
Cologne / perfume	-	-
Air fresheners	-	-
Fuel tank (inside building)	-	-
Wood stove or fireplace	-	-
New furniture / upholstery	-	-
New carpeting / flooring	-	-
Hobbies - glues, paints, etc.	-	-

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No **Ground Floor of Building Has Garages**

If so, is a car usually parked in the garage? **Unknown**

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? **Unknown** Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Scott McCray Phone number: 973-564-6006

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Accutest Labs (Dayton, NJ)

Sample locations (floor, room):

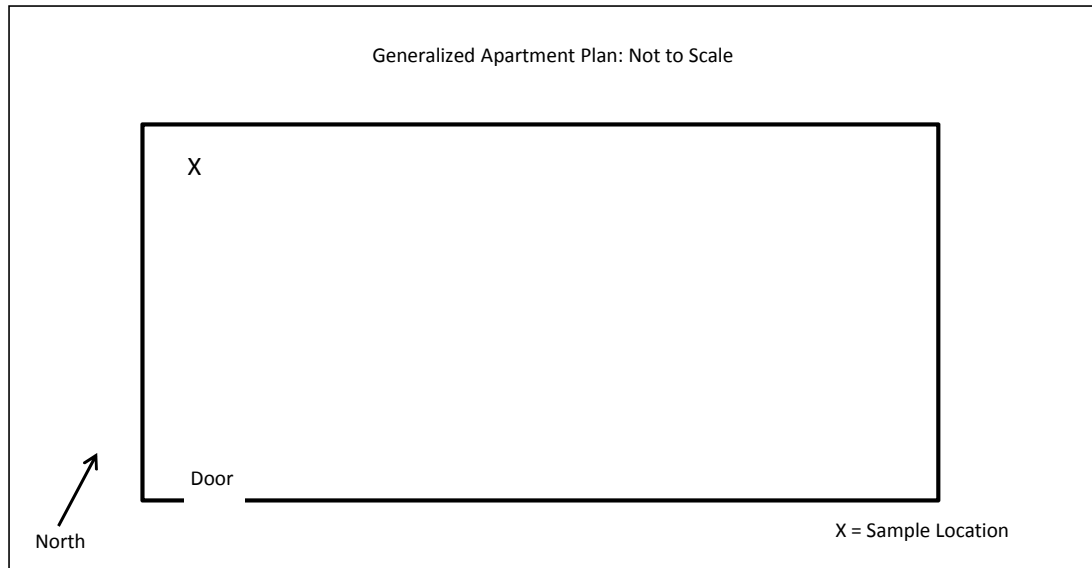
Field ID #: 12002 CR Field ID #: _____

Field ID #: _____ Field ID #: _____

Were “Instructions for Occupants” followed? Yes / No (Assumed)

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Sunny, temperatures ranging from 70 to 90 degrees Fahrenheit.

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Other products in apartment included scented candles, carpet spot cleaner.

Building hallway painted recently. Building hallway has odor resembling solvent or cleaning product.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Scott McCray Date: 7/18/2011
Preparer's affiliation: TRC Environmental Corp. Phone #: 973-564-6006
Site Name: Former LEC Facility Case #: 90038

Part I - Occupants

Building Address: 401 Route 22 West, Building 26, North Plainfield, NJ
Property Contact: Maintenance Supervisor Owner Renter / other: _____
Contact's Phone: home _____ work _____ cell _____
of Building occupants: Children under age 13 N/A Children age 13-18 N/A Adults N/A

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial
Describe building: _____ Year constructed: Unknown
Sensitive population: day care / nursing home / hospital / school / other (specify): _____
Number of floors below grade: 1 (full basement / crawl space / slab on grade)
Number of floors at or above grade: 2
Depth of basement below grade surface: 6 ft. Basement size: 6,000 ft²
Basement floor construction: concrete / dirt / floating / stone / other (specify): _____
Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____
Basement sump present? Y Sump pump? Yes / No (In Elevator Shaft) Water in sump? Yes / No
Type of heating system (circle all that apply):
hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): None in basement, unknown for rest of building
Type of ventilation system (circle all that apply):
central air conditioning mechanical fans bathroom ventilation fans
Individual conditioning units kitchen range hood fan outside air intake
other (specify): None in basement, unknown for rest of building

Type of fuel utilized (circle all that apply):
Natural gas / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings?
Is there a whole house fan?

Yes / No
Yes / No

Septic system?

Yes / Yes (but not used) / No

Irrigation/private well?

Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes / No active / passive

Sub-slab vapor/moisture barrier in place? Yes / No (assumed)

Type of barrier: _____

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): Former LEC Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): N/A

Heavy vehicular traffic nearby (or other mobile sources): US Route 22

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	-	-
Gas-powered equipment	-	-
Kerosene storage cans	-	-
Paints / thinners / strippers	Basement	No
Cleaning solvents	-	-
Oven cleaners	-	-
Carpet / upholstery cleaners	Basement	No
Other house cleaning products	Basement	No
Moth balls	-	-
Polishes / waxes	-	-
Insecticides	-	-
Furniture / floor polish	-	-
Nail polish / polish remover	-	-
Hairspray	-	-
Cologne / perfume	-	-
Air fresheners	-	-
Fuel tank (inside building)	-	-
Wood stove or fireplace	-	-
New furniture / upholstery	-	-
New carpeting / flooring	-	-
Hobbies - glues, paints, etc.	-	-

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No **Ground Floor of Building Has Garages**

If so, is a car usually parked in the garage? **Unknown**

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? **Unknown** Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Scott McCray Phone number: 973-564-6006

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Accutest Labs (Dayton, NJ)

Sample locations (floor, room): _____

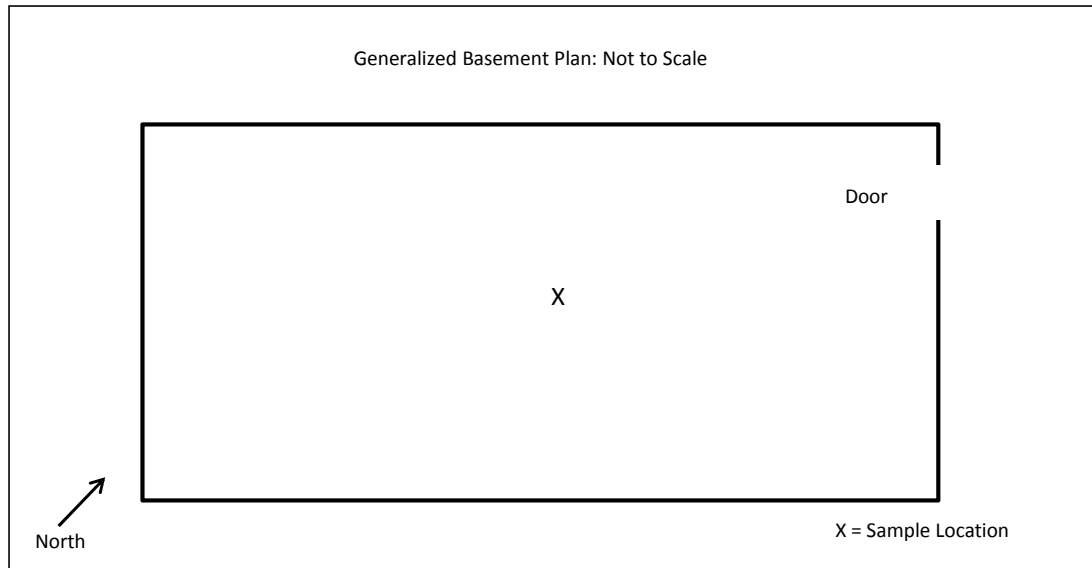
Field ID #: Bldg 26 RV Field ID #: _____

Field ID #: _____ Field ID #: _____

Were "Instructions for Occupants" followed? Yes / No (Assumed)

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Sunny, temperatures ranging from 70 to 90 degrees Fahrenheit.

Part VIII – General Observations

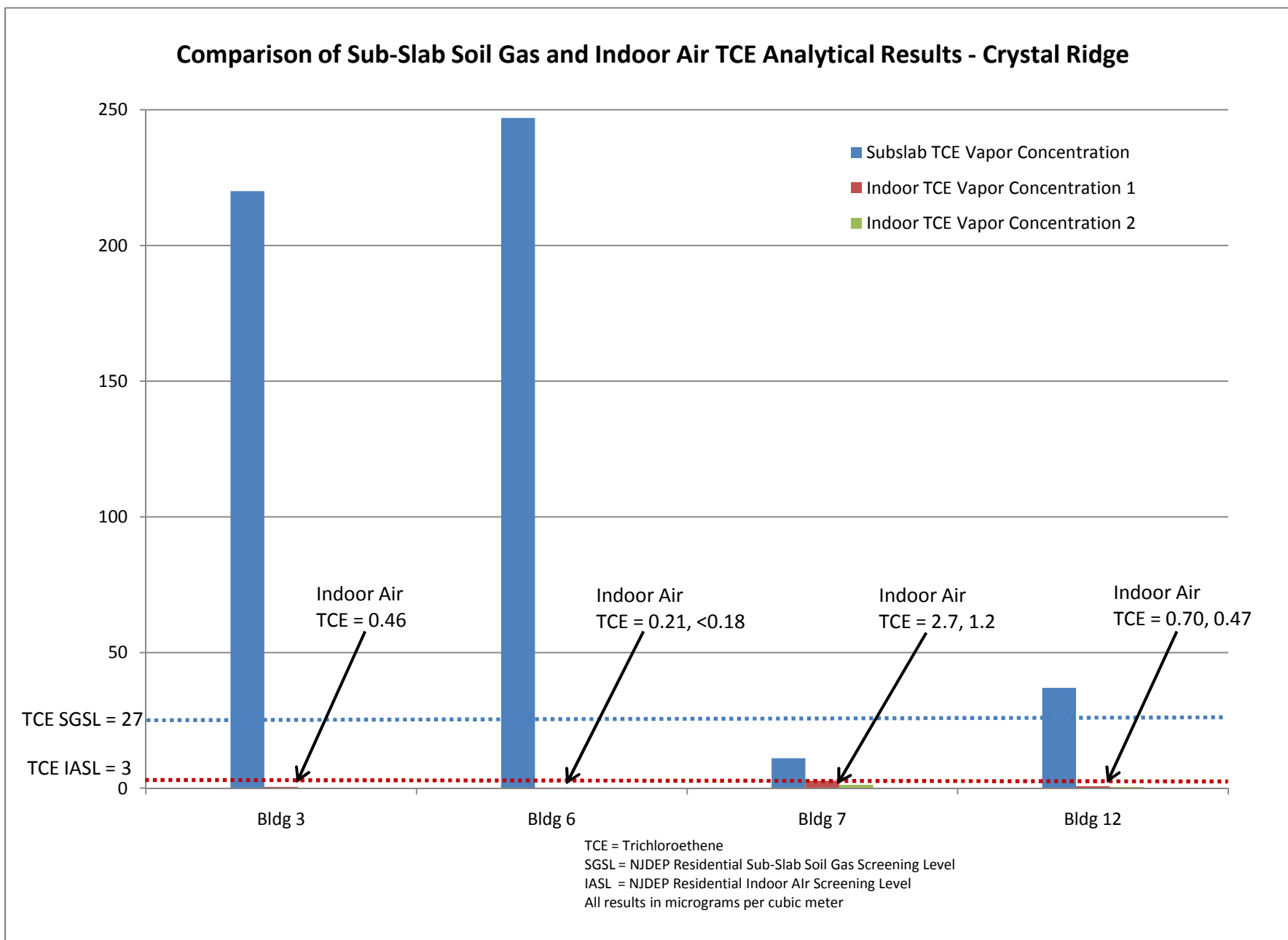
Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)

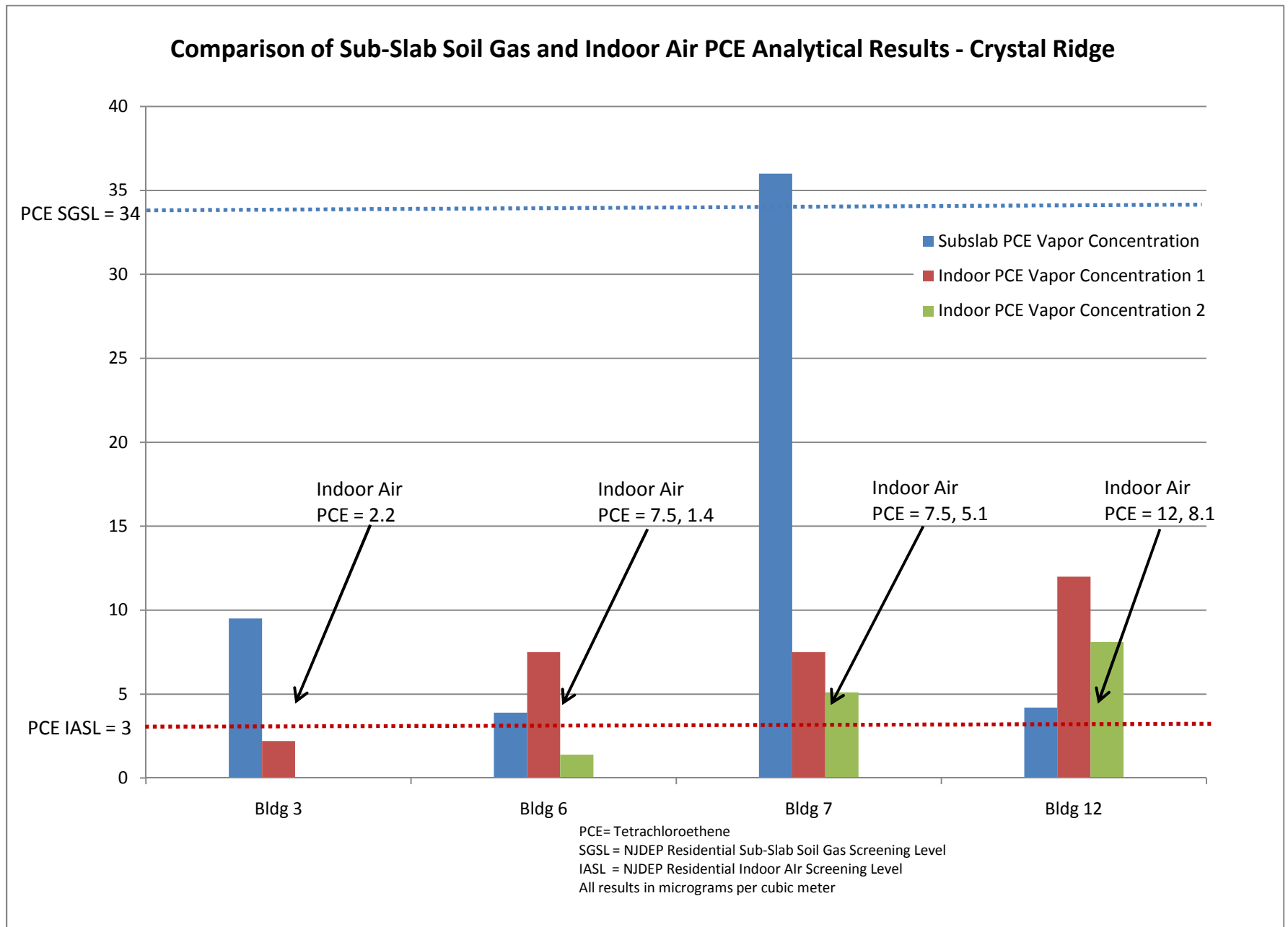
APPENDIX D

Graphs - Comparison of Sub-Slab Soil Gas and Indoor Air Results

GRAPH 1

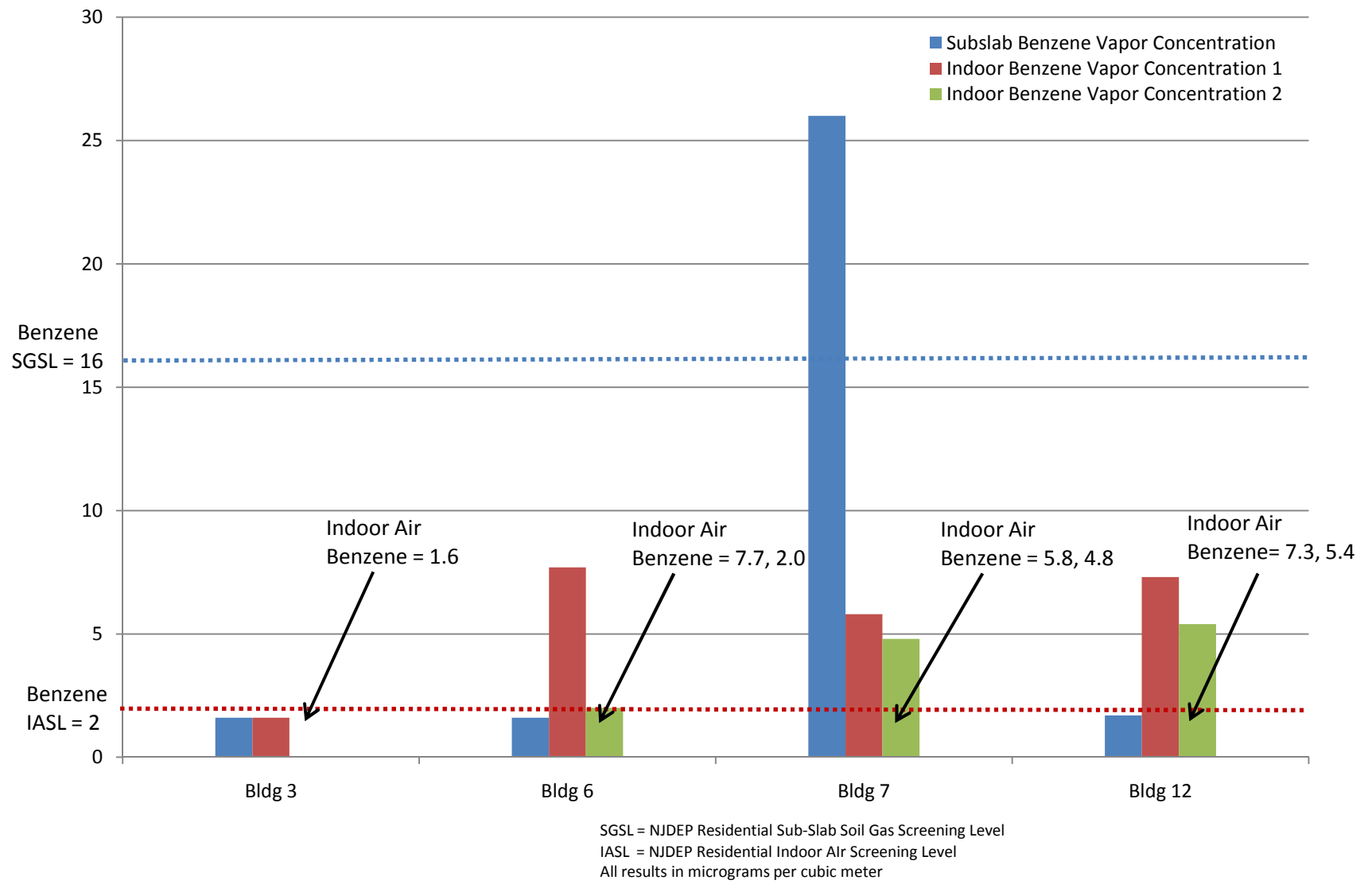


GRAPH 2



GRAPH 3

Comparison of Sub-Slab Soil Gas and Indoor Air Benzene Analytical Results - Crystal Ridge







07/08/11

Technical Report for

TRC

Lockheed Electronics Co, Watchung, NJ

116473

Accutest Job Number: JA68565

Sampling Dates: 02/17/11 - 02/18/11

Report to:

TRC Environmental Corporation


JOBrien@TRCSOLUTIONS.com

ATTN: Jim OBrien

Total number of pages in report: 840



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


David N. Speis
VP, Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

TRC

Job No: JA68565

Lockheed Electronics Co, Watchung, NJ
Project No: 116473

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JA68565-1	02/17/11	09:48	RC	02/18/11	AIR	Air	SV-4
JA68565-2	02/17/11	10:48	RC	02/18/11	AIR	Air	SV-3
JA68565-3	02/17/11	12:36	RC	02/18/11	AIR	Air	SV-5
JA68565-4	02/17/11	13:48	RC	02/18/11	AIR	Air	SV-6
JA68565-5	02/17/11	14:30	RC	02/18/11	AIR	Air	SV-7
JA68565-6	02/17/11	13:15	RC	02/18/11	AIR	Air	SV-8
JA68565-7	02/17/11	13:24	RC	02/18/11	AIR	Air	SV-DUP
JA68565-8	02/18/11	10:23	RC	02/18/11	AIR	Air	SV-14
JA68565-9	02/18/11	11:05	RC	02/18/11	AIR	Air	SV-12
JA68565-10	02/18/11	12:03	RC	02/18/11	AIR	Air	SV-9
JA68565-11	02/18/11	12:52	RC	02/18/11	AIR	Air	SV-10
JA68565-12	02/18/11	13:35	RC	02/18/11	AIR	Air	SV-11

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: TRC**Job No:** JA68565**Site:** Lockheed Electronics Co, Watchung, NJ**Report Date** 3/11/2011 5:17:56 PM

On 02/18/2011, 12 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA68565 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR**Batch ID:** V3W828

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA68565-4DUP were used as the QC samples indicated.
- Blank Spike Recovery(s) for Hexachlorobutadiene, trans-1,3-Dichloropropene are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- RPD(s) for Duplicate for 1,2,4-Trimethylbenzene, Benzene, Carbon disulfide, Ethyl Acetate, Freon 113, Heptane, Methyl ethyl ketone, Tertiary Butyl Alcohol, Trichloroethylene are outside control limits for sample JA68565-4DUP. Outside in house control limits.

Matrix: AIR**Batch ID:** V3W829

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA68864-8DUP were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Sample Results

Report of Analysis

Accutest LabLink@623710 09:27 08-Jul-2011

Report of Analysis

Page 1 of 3

Client Sample ID:	SV-4						
Lab Sample ID:	JA68565-1				Date Sampled:	02/17/11	
Matrix:	AIR - Air	Summa ID:	A398		Date Received:	02/18/11	
Method:	TO-15				Percent Solids:	n/a	
Project:	Lockheed Electronics Co, Watchung, NJ						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W21000.D	1	02/25/11	YXC	n/a	n/a	V3W828
Run #2	3W21011.D	1	02/25/11	YXC	n/a	n/a	V3W829

	Initial Volume
Run #1	100 ml
Run #2	30.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	246 ^a	2.7	0.82	ppbv		584 ^a	6.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.53	0.80	0.20	ppbv	J	1.7	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	3.9	0.80	0.12	ppbv		12	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	1.7	0.80	0.10	ppbv		8.3	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	1.3	0.80	0.095	ppbv		5.2	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	1.4	0.80	0.16	ppbv		5.0	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.59	0.80	0.29	ppbv	J	2.9	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.17	0.80	0.13	ppbv	J	0.67	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.8	0.80	0.11	ppbv		11	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-4
Lab Sample ID: JA68565-1
Matrix: AIR - Air Summa ID: A398
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/17/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	76.3	2.0	0.68	ppbv		144	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.42	0.80	0.11	ppbv	J	1.8	3.5	ug/m3
141-78-6	88	Ethyl Acetate	5.2	0.80	0.31	ppbv		19	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.096	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.10	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.96	0.80	0.094	ppbv		3.9	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	1.2	0.80	0.087	ppbv		4.2	2.8	ug/m3
591-78-6	100	2-Hexanone	0.50	0.80	0.17	ppbv	J	2.0	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	34.9	0.80	0.22	ppbv		85.8	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	8.4	0.80	0.12	ppbv		25	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	1.7	0.80	0.15	ppbv		7.0	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	3.3	2.0	0.38	ppbv		5.7	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.0	0.80	0.11	ppbv		4.9	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.083	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.94	0.80	0.16	ppbv		2.8	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.63	0.16	0.16	ppbv		4.3	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.6	0.80	0.23	ppbv		7.7	2.4	ug/m3
108-88-3	92.14	Toluene	2.3	0.80	0.10	ppbv		8.7	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	2.2	0.16	0.097	ppbv		12	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	1.7	0.80	0.24	ppbv		7.4	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.3	0.80	0.10	ppbv		5.6	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	3.0	0.80	0.10	ppbv		13	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	102%	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-4					
Lab Sample ID: JA68565-1				Date Sampled: 02/17/11	
Matrix:	AIR - Air	Summa ID: A398		Date Received: 02/18/11	
Method:	TO-15			Percent Solids: n/a	
Project:	Lockheed Electronics Co, Watchung, NJ				

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 2

Client Sample ID:	SV-3						
Lab Sample ID:	JA68565-2				Date Sampled:	02/17/11	
Matrix:	AIR - Air	Summa ID:	A590		Date Received:	02/18/11	
Method:	TO-15				Percent Solids:	n/a	
Project:	Lockheed Electronics Co, Watchung, NJ						

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W21001.D	1	02/25/11	YXC	n/a	n/a	V3W828
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	144	0.80	0.25	ppbv		342	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.49	0.80	0.20	ppbv	J	1.6	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.57	0.80	0.12	ppbv	J	1.8	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	34.5	0.80	0.10	ppbv		168	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	0.81	0.80	0.17	ppbv		2.8	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.79	0.80	0.095	ppbv	J	3.1	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.80	0.29	ppbv	J	2.6	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.3	0.80	0.11	ppbv		7.8	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-3
Lab Sample ID: JA68565-2
Matrix: AIR - Air Summa ID: A590
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/17/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	32.6	2.0	0.68	ppbv		61.4	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.49	0.80	0.11	ppbv	J	2.1	3.5	ug/m3
141-78-6	88	Ethyl Acetate	6.5	0.80	0.31	ppbv		23	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.38	0.80	0.096	ppbv	J	1.9	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.10	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	1.1	0.80	0.094	ppbv		4.5	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	1.3	0.80	0.087	ppbv		4.6	2.8	ug/m3
591-78-6	100	2-Hexanone	0.87	0.80	0.17	ppbv		3.6	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	7.4	0.80	0.22	ppbv		18	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	4.6	0.80	0.12	ppbv		14	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.15	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.38	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.7	0.80	0.11	ppbv		8.4	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.45	0.80	0.11	ppbv	J	2.2	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.48	0.80	0.083	ppbv	J	2.2	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.73	0.80	0.16	ppbv	J	2.2	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.4	0.16	0.16	ppbv		9.5	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	2.2	0.80	0.10	ppbv		8.3	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	41.0	0.16	0.097	ppbv		220	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	2.0	0.80	0.24	ppbv		8.7	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.1	0.80	0.10	ppbv		4.8	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	3.2	0.80	0.10	ppbv		14	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 2

Client Sample ID:	SV-5						
Lab Sample ID:	JA68565-3				Date Sampled:	02/17/11	
Matrix:	AIR - Air	Summa ID:	A600		Date Received:	02/18/11	
Method:	TO-15				Percent Solids:	n/a	
Project:	Lockheed Electronics Co, Watchung, NJ						

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20984.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	72.4	0.80	0.25	ppbv		172	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.20	ppbv		ND	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.12	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.65	0.80	0.29	ppbv	J	3.2	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.2	0.80	0.11	ppbv		7.2	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-5
Lab Sample ID: JA68565-3
Matrix: AIR - Air Summa ID: A600
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/17/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	23.9	2.0	0.68	ppbv		45.0	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.11	ppbv		ND	3.5	ug/m3
141-78-6	88	Ethyl Acetate	3.7	0.80	0.31	ppbv		13	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.096	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	0.48	0.80	0.10	ppbv	J	3.7	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.81	0.80	0.094	ppbv		3.3	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.50	0.80	0.087	ppbv	J	1.8	2.8	ug/m3
591-78-6	100	2-Hexanone	0.41	0.80	0.17	ppbv	J	1.7	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.5	0.80	0.22	ppbv		8.6	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.0	0.80	0.12	ppbv		5.9	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.15	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	1.2	2.0	0.38	ppbv	J	2.1	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.91	0.80	0.11	ppbv		4.5	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.083	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.55	0.80	0.16	ppbv	J	1.7	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.21	0.16	0.16	ppbv		1.4	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	1.6	0.80	0.10	ppbv		6.0	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	1.1	0.16	0.097	ppbv		5.9	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	1.5	0.80	0.24	ppbv		6.5	3.5	ug/m3
95-47-6	106.2	o-Xylene	0.93	0.80	0.10	ppbv		4.0	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	2.5	0.80	0.10	ppbv		11	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 3

Client Sample ID: SV-6
Lab Sample ID: JA68565-4
Matrix: AIR - Air Summa ID: A791
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 02/17/11
Date Received: 02/18/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20985.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2	3W21012.D	1	02/25/11	YXC	n/a	n/a	V3W829

	Initial Volume
Run #1	100 ml
Run #2	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	166 ^a	2.0	0.61	ppbv		394 ^a	4.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.51	0.80	0.20	ppbv	J	1.6	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	5.4	0.80	0.12	ppbv		17	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	2.0	0.80	0.29	ppbv		9.9	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.5	0.80	0.11	ppbv		9.0	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-6
Lab Sample ID: JA68565-4
Matrix: AIR - Air Summa ID: A791
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 02/17/11
Date Received: 02/18/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	104	2.0	0.68	ppbv		196	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.11	ppbv		ND	3.5	ug/m3
141-78-6	88	Ethyl Acetate	14.3	0.80	0.31	ppbv		51.5	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.096	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	4.7	0.80	0.10	ppbv		36	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.57	0.80	0.094	ppbv	J	2.3	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.58	0.80	0.087	ppbv	J	2.0	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	17.0	0.80	0.22	ppbv		41.8	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	4.2	0.80	0.12	ppbv		12	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.15	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	2.4	2.0	0.38	ppbv		4.1	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.0	0.80	0.11	ppbv		4.9	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.083	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.0	0.80	0.16	ppbv		3.0	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.58	0.16	0.16	ppbv		3.9	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	2.4	0.80	0.10	ppbv		9.0	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	46.0	0.16	0.097	ppbv		247	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.49	0.80	0.13	ppbv	J	2.8	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	1.4	0.80	0.24	ppbv		6.1	3.5	ug/m3
95-47-6	106.2	o-Xylene	0.91	0.80	0.10	ppbv		4.0	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	2.4	0.80	0.10	ppbv		10	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%	107%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

Client Sample ID: SV-6					
Lab Sample ID: JA68565-4				Date Sampled: 02/17/11	
Matrix: AIR - Air	Summa ID: A791			Date Received: 02/18/11	
Method: TO-15				Percent Solids: n/a	
Project: Lockheed Electronics Co, Watchung, NJ					

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 3

Client Sample ID:	SV-7						
Lab Sample ID:	JA68565-5				Date Sampled:	02/17/11	
Matrix:	AIR - Air	Summa ID:	A592		Date Received:	02/18/11	
Method:	TO-15				Percent Solids:	n/a	
Project:	Lockheed Electronics Co, Watchung, NJ						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20987.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2	3W21028.D	1	02/26/11	YXC	n/a	n/a	V3W829

	Initial Volume
Run #1	100 ml
Run #2	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	186 ^a	2.0	0.61	ppbv		442 ^a	4.8	ug/m3
106-99-0	54.09	1,3-Butadiene	18.6	0.80	0.11	ppbv		41.1	1.8	ug/m3
71-43-2	78.11	Benzene	8.0	0.80	0.20	ppbv		26	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	3.9	0.80	0.12	ppbv		12	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	0.79	0.80	0.12	ppbv	J	3.6	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.42	0.80	0.29	ppbv	J	2.1	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.1	0.80	0.11	ppbv		6.6	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-7
Lab Sample ID: JA68565-5
Matrix: AIR - Air Summa ID: A592
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 02/17/11
Date Received: 02/18/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	122	2.0	0.68	ppbv		230	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	26.8	0.80	0.11	ppbv		116	3.5	ug/m3
141-78-6	88	Ethyl Acetate	3.7	0.80	0.31	ppbv		13	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	4.8	0.80	0.096	ppbv		24	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.10	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	4.5	0.80	0.094	ppbv		18	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	2.4	0.80	0.087	ppbv		8.5	2.8	ug/m3
591-78-6	100	2-Hexanone	2.2	0.80	0.17	ppbv		9.0	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	13.8	0.80	0.22	ppbv		33.9	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	9.3	0.80	0.12	ppbv		27	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	96.0	0.80	0.15	ppbv		393	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	6.9	0.80	0.17	ppbv		25	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	5.9	2.0	0.38	ppbv		10	3.4	ug/m3
100-42-5	104.1	Styrene	22.3	0.80	0.11	ppbv		94.9	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	15.3	0.80	0.11	ppbv		75.2	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	6.5	0.80	0.11	ppbv		32	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	4.7	0.80	0.083	ppbv		22	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.1	0.80	0.16	ppbv		9.4	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	5.3	0.16	0.16	ppbv		36	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.0	0.80	0.23	ppbv		0.0	2.4	ug/m3
108-88-3	92.14	Toluene	65.6	0.80	0.10	ppbv		247	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	2.1	0.16	0.097	ppbv		11	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	5.6	0.80	0.13	ppbv		31	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	80.2	0.80	0.24	ppbv		348	3.5	ug/m3
95-47-6	106.2	o-Xylene	31.8	0.80	0.10	ppbv		138	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	112	0.80	0.10	ppbv		486	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%	110%	65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-7					
Lab Sample ID: JA68565-5				Date Sampled: 02/17/11	
Matrix: AIR - Air		Summa ID: A592		Date Received: 02/18/11	
Method: TO-15				Percent Solids: n/a	
Project: Lockheed Electronics Co, Watchung, NJ					

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: SV-8
Lab Sample ID: JA68565-6
Matrix: AIR - Air Summa ID: A565
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 02/17/11
Date Received: 02/18/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20988.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2	3W21014.D	1	02/25/11	YXC	n/a	n/a	V3W829

	Initial Volume
Run #1	100 ml
Run #2	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	136 ^a	2.0	0.61	ppbv		323 ^a	4.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.44	0.80	0.20	ppbv	J	1.4	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	1.5	0.80	0.12	ppbv		4.7	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.80	0.29	ppbv	J	2.4	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.3	0.80	0.11	ppbv		7.8	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-8
Lab Sample ID: JA68565-6
Matrix: AIR - Air Summa ID: A565
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/17/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	129	2.0	0.68	ppbv		243	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	3.3	0.80	0.11	ppbv		14	3.5	ug/m3
141-78-6	88	Ethyl Acetate	9.0	0.80	0.31	ppbv		32	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	2.3	0.80	0.096	ppbv		11	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.10	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.56	0.80	0.094	ppbv	J	2.3	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.61	0.80	0.087	ppbv	J	2.1	2.8	ug/m3
591-78-6	100	2-Hexanone	0.38	0.80	0.17	ppbv	J	1.6	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	16.8	0.80	0.22	ppbv		41.3	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	4.9	0.80	0.12	ppbv		14	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	1.7	0.80	0.15	ppbv		7.0	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	1.9	2.0	0.38	ppbv	J	3.3	3.4	ug/m3
100-42-5	104.1	Styrene	4.9	0.80	0.11	ppbv		21	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	8.8	0.80	0.11	ppbv		43	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	3.1	0.80	0.11	ppbv		15	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.083	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	6.1	0.80	0.16	ppbv		18	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.61	0.16	0.16	ppbv		4.1	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	5.0	0.80	0.10	ppbv		19	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	2.9	0.16	0.097	ppbv		16	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	14.1	0.80	0.24	ppbv		61.2	3.5	ug/m3
95-47-6	106.2	o-Xylene	6.2	0.80	0.10	ppbv		27	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	20.3	0.80	0.10	ppbv		88.2	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	112%	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-8					
Lab Sample ID: JA68565-6				Date Sampled: 02/17/11	
Matrix: AIR - Air		Summa ID: A565		Date Received: 02/18/11	
Method: TO-15				Percent Solids: n/a	
Project: Lockheed Electronics Co, Watchung, NJ					

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	SV-DUP						
Lab Sample ID:	JA68565-7				Date Sampled:	02/17/11	
Matrix:	AIR - Air	Summa ID:	A712		Date Received:	02/18/11	
Method:	TO-15				Percent Solids:	n/a	
Project:	Lockheed Electronics Co, Watchung, NJ						

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20989.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	107	0.80	0.25	ppbv		254	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.20	ppbv		ND	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	1.0	0.80	0.12	ppbv		3.1	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.41	0.80	0.29	ppbv	J	2.0	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.1	0.80	0.11	ppbv		6.6	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-DUP
Lab Sample ID: JA68565-7
Matrix: AIR - Air Summa ID: A712
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/17/11
Date Received: 02/18/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	108	2.0	0.68	ppbv		203	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.6	0.80	0.11	ppbv		6.9	3.5	ug/m3
141-78-6	88	Ethyl Acetate	2.4	0.80	0.31	ppbv		8.6	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	1.5	0.80	0.096	ppbv		7.4	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.10	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.094	ppbv		ND	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	ND	0.80	0.087	ppbv		ND	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	13.7	0.80	0.22	ppbv		33.7	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.9	0.80	0.12	ppbv		5.6	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.53	0.80	0.15	ppbv	J	2.2	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	1.0	2.0	0.38	ppbv	J	1.7	3.4	ug/m3
100-42-5	104.1	Styrene	2.6	0.80	0.11	ppbv		11	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	7.3	0.80	0.11	ppbv		36	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	2.3	0.80	0.11	ppbv		11	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.083	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	5.7	0.80	0.16	ppbv		17	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.31	0.16	0.16	ppbv		2.1	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	2.1	0.80	0.10	ppbv		7.9	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	0.41	0.16	0.097	ppbv		2.2	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	7.2	0.80	0.24	ppbv		31	3.5	ug/m3
95-47-6	106.2	o-Xylene	3.2	0.80	0.10	ppbv		14	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	10.4	0.80	0.10	ppbv		45.2	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		65-128%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 2

Client Sample ID:	SV-14						
Lab Sample ID:	JA68565-8				Date Sampled:	02/18/11	
Matrix:	AIR - Air	Summa ID:	A573		Date Received:	02/18/11	
Method:	TO-15				Percent Solids:	n/a	
Project:	Lockheed Electronics Co, Watchung, NJ						

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20990.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	115	0.80	0.25	ppbv		273	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.48	0.80	0.20	ppbv	J	1.5	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	1.9	0.80	0.12	ppbv		5.9	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	1.3	0.80	0.10	ppbv		6.3	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.80	0.29	ppbv	J	2.2	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.2	0.80	0.11	ppbv		7.2	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-14
Lab Sample ID: JA68565-8
Matrix: AIR - Air Summa ID: A573
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/18/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	76.8	2.0	0.68	ppbv		145	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.77	0.80	0.11	ppbv	J	3.3	3.5	ug/m3
141-78-6	88	Ethyl Acetate	1.2	0.80	0.31	ppbv		4.3	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.50	0.80	0.096	ppbv	J	2.5	3.9	ug/m3
76-13-1	187.4	Freon 113	0.73	0.80	0.10	ppbv	J	5.6	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.71	0.80	0.094	ppbv	J	2.9	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.74	0.80	0.087	ppbv	J	2.6	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	12.2	0.80	0.22	ppbv		30.0	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.8	0.80	0.12	ppbv		11	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.36	0.80	0.15	ppbv	J	1.5	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.38	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	0.90	0.80	0.11	ppbv		3.8	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.5	0.80	0.11	ppbv		12	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.76	0.80	0.11	ppbv	J	3.7	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.083	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.67	0.80	0.16	ppbv	J	2.0	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.37	0.16	0.16	ppbv		2.5	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	1.7	0.80	0.10	ppbv		6.4	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	0.43	0.16	0.097	ppbv		2.3	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	3.3	0.80	0.24	ppbv		14	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.8	0.80	0.10	ppbv		7.8	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	5.1	0.80	0.10	ppbv		22	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 2

Client Sample ID: SV-12
Lab Sample ID: JA68565-9
Matrix: AIR - Air Summa ID: A500
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/18/11
Date Received: 02/18/11
Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20991.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	66.5	0.80	0.25	ppbv		158	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.52	0.80	0.20	ppbv	J	1.7	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.70	0.80	0.12	ppbv	J	2.2	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.59	0.80	0.29	ppbv	J	2.9	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	0.56	0.80	0.11	ppbv	J	3.4	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-12
Lab Sample ID: JA68565-9
Matrix: AIR - Air Summa ID: A500
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/18/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	36.5	2.0	0.68	ppbv		68.8	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.54	0.80	0.11	ppbv	J	2.3	3.5	ug/m3
141-78-6	88	Ethyl Acetate	2.0	0.80	0.31	ppbv		7.2	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.40	0.80	0.096	ppbv	J	2.0	3.9	ug/m3
76-13-1	187.4	Freon 113	2.9	0.80	0.10	ppbv		22	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.78	0.80	0.094	ppbv	J	3.2	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	0.88	0.80	0.087	ppbv		3.1	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	12.8	0.80	0.22	ppbv		31.5	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.8	0.80	0.12	ppbv		11	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.15	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	4.1	2.0	0.38	ppbv		7.0	3.4	ug/m3
100-42-5	104.1	Styrene	0.47	0.80	0.11	ppbv	J	2.0	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.5	0.80	0.11	ppbv		7.4	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.47	0.80	0.11	ppbv	J	2.3	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.083	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.16	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.62	0.16	0.16	ppbv		4.2	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	2.2	0.80	0.10	ppbv		8.3	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	6.9	0.16	0.097	ppbv		37	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	2.2	0.80	0.24	ppbv		9.6	3.5	ug/m3
95-47-6	106.2	o-Xylene	0.99	0.80	0.10	ppbv		4.3	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	3.2	0.80	0.10	ppbv		14	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%		65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	SV-9						
Lab Sample ID:	JA68565-10				Date Sampled:	02/18/11	
Matrix:	AIR - Air	Summa ID:	A796		Date Received:	02/18/11	
Method:	TO-15				Percent Solids:	n/a	
Project:	Lockheed Electronics Co, Watchung, NJ						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20992.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2	3W21015.D	1	02/25/11	YXC	n/a	n/a	V3W829

	Initial Volume
Run #1	100 ml
Run #2	30.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	194 ^a	2.7	0.82	ppbv		461 ^a	6.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.62	0.80	0.20	ppbv	J	2.0	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	6.6	0.80	0.12	ppbv		21	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.17	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.80	0.29	ppbv	J	2.4	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.5	0.80	0.11	ppbv		9.0	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-9
Lab Sample ID: JA68565-10
Matrix: AIR - Air Summa ID: A796
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/18/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	99.2	2.0	0.68	ppbv		187	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.93	0.80	0.11	ppbv		4.0	3.5	ug/m3
141-78-6	88	Ethyl Acetate	3.2	0.80	0.31	ppbv		12	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.66	0.80	0.096	ppbv	J	3.2	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.10	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	1.0	0.80	0.094	ppbv		4.1	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	1.1	0.80	0.087	ppbv		3.9	2.8	ug/m3
591-78-6	100	2-Hexanone	0.67	0.80	0.17	ppbv	J	2.7	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	12.4	0.80	0.22	ppbv		30.5	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	8.2	0.80	0.12	ppbv		24	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.60	0.80	0.15	ppbv	J	2.5	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.93	0.80	0.17	ppbv		3.4	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	6.9	2.0	0.38	ppbv		12	3.4	ug/m3
100-42-5	104.1	Styrene	0.88	0.80	0.11	ppbv		3.7	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	3.4	0.80	0.11	ppbv		17	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.94	0.80	0.11	ppbv		4.6	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.42	0.80	0.083	ppbv	J	2.0	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.1	0.80	0.16	ppbv		3.3	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.26	0.16	0.16	ppbv		1.8	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	2.8	0.80	0.10	ppbv		11	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	0.88	0.16	0.097	ppbv		4.7	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	3.9	0.80	0.24	ppbv		17	3.5	ug/m3
95-47-6	106.2	o-Xylene	2.1	0.80	0.10	ppbv		9.1	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	6.0	0.80	0.10	ppbv		26	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%	106%	65-128%

ND = Not detected MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: SV-9**Lab Sample ID:** JA68565-10**Date Sampled:** 02/18/11**Matrix:** AIR - Air Summa ID: A796**Date Received:** 02/18/11**Method:** TO-15**Percent Solids:** n/a**Project:** Lockheed Electronics Co, Watchung, NJ

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

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Report of Analysis

Page 1 of 2

Client Sample ID:	SV-10						
Lab Sample ID:	JA68565-11				Date Sampled:	02/18/11	
Matrix:	AIR - Air	Summa ID:	A580		Date Received:	02/18/11	
Method:	TO-15				Percent Solids:	n/a	
Project:	Lockheed Electronics Co, Watchung, NJ						

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20993.D	1	02/24/11	YXC	n/a	n/a	V3W828
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	49.1	0.80	0.25	ppbv		117	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.91	0.80	0.20	ppbv		2.9	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	0.81	0.80	0.12	ppbv		2.5	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	0.87	0.80	0.21	ppbv		1.8	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	1.0	0.80	0.17	ppbv		3.4	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.67	0.80	0.29	ppbv	J	3.3	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-10
Lab Sample ID: JA68565-11
Matrix: AIR - Air Summa ID: A580
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/18/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	125	2.0	0.68	ppbv		236	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.51	0.80	0.11	ppbv	J	2.2	3.5	ug/m3
141-78-6	88	Ethyl Acetate	3.6	0.80	0.31	ppbv		13	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.096	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	1.0	0.80	0.10	ppbv		7.7	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.97	0.80	0.094	ppbv		4.0	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	1.1	0.80	0.087	ppbv		3.9	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	8.3	0.80	0.22	ppbv		20	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.8	0.80	0.12	ppbv		5.3	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.15	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.68	0.80	0.17	ppbv	J	2.5	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	4.3	2.0	0.38	ppbv		7.4	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.11	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.3	0.80	0.11	ppbv		6.4	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.44	0.80	0.11	ppbv	J	2.2	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.40	0.80	0.083	ppbv	J	1.9	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.51	0.80	0.16	ppbv	J	1.5	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.18	0.16	0.16	ppbv		1.2	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	2.6	0.80	0.10	ppbv		9.8	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	2.1	0.16	0.097	ppbv		11	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.13	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	1.8	0.80	0.24	ppbv		7.8	3.5	ug/m3
95-47-6	106.2	o-Xylene	0.79	0.80	0.10	ppbv	J	3.4	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	2.6	0.80	0.10	ppbv		11	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		65-128%

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J = Indicates an estimated value

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Report of Analysis

Page 1 of 3

Client Sample ID: SV-11
Lab Sample ID: JA68565-12
Matrix: AIR - Air Summa ID: A514
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 02/18/11
Date Received: 02/18/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W20994.D	1	02/25/11	YXC	n/a	n/a	V3W828
Run #2	3W21016.D	1	02/25/11	YXC	n/a	n/a	V3W829

	Initial Volume
Run #1	100 ml
Run #2	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	246 ^a	2.0	0.61	ppbv		584 ^a	4.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.65	0.80	0.20	ppbv	J	2.1	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.10	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.098	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.10	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.13	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.14	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	6.4	0.80	0.12	ppbv		20	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.12	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.20	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	0.44	0.80	0.10	ppbv	J	2.1	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.21	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.14	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.091	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	1.2	0.80	0.17	ppbv		4.1	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.098	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.095	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.094	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.22	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.16	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.80	0.29	ppbv	J	2.6	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.33	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.087	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	1.5	0.80	0.11	ppbv		9.0	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.31	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-11
Lab Sample ID: JA68565-12
Matrix: AIR - Air Summa ID: A514
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/18/11

Date Received: 02/18/11

Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	123	2.0	0.68	ppbv		232	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.60	0.80	0.11	ppbv	J	2.6	3.5	ug/m3
141-78-6	88	Ethyl Acetate	2.1	0.80	0.31	ppbv		7.6	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.75	0.80	0.096	ppbv	J	3.7	3.9	ug/m3
76-13-1	187.4	Freon 113	0.40	0.80	0.10	ppbv	J	3.1	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	1.6	0.80	0.094	ppbv		6.6	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.24	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	1.7	0.80	0.087	ppbv		6.0	2.8	ug/m3
591-78-6	100	2-Hexanone	0.56	0.80	0.17	ppbv	J	2.3	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	28.9	0.80	0.22	ppbv		71.0	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.11	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	4.4	0.80	0.12	ppbv		13	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.43	0.80	0.15	ppbv	J	1.8	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.17	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	ND	2.0	0.38	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	0.65	0.80	0.11	ppbv	J	2.8	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.097	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.10	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.096	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.46	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	3.2	0.80	0.11	ppbv		16	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.1	0.80	0.11	ppbv		5.4	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.083	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.93	0.80	0.16	ppbv		2.8	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.61	0.16	0.16	ppbv		4.1	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.23	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	2.1	0.80	0.10	ppbv		7.9	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	0.66	0.16	0.097	ppbv		3.5	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.73	0.80	0.13	ppbv	J	4.1	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.12	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.53	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	2.5	0.80	0.24	ppbv		11	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.3	0.80	0.10	ppbv		5.6	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	3.8	0.80	0.10	ppbv		17	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%	108%	65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: SV-11
Lab Sample ID: JA68565-12
Matrix: AIR - Air Summa ID: A514
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ

Date Sampled: 02/18/11**Date Received:** 02/18/11**Percent Solids:** n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2010 MDL Study - Method: TO-15

CHAIN OF CUSTODY Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking #
Lab Quote #
Bottle Order/Control #
Lab Job #

PAGE 1 OF 2

Company Name TRC ENVIRONMENTAL		Project Name FORMER LEG		Weather Parameters		Requested Analysis													
Address 57 EAST WILLOW ST		Street Rt 22 W		Temperature (Fahrenheit)															
City MILLBURN		City WATCHUNG		Start: Maximum:															
State NJ		State NJ		Stop: Minimum:															
Project Contact SCOTT McCRAE		Project # 116473		Atmospheric Pressure (inches of Hg)															
Phone # 973 564 6006		Client Purchase Order #		Start: Maximum:															
Fax #				Stop: Minimum:															
Sampler(s) Name(s) Ria Canagaw				Other weather comment:															
Lab Sample #	Field ID / Point of Collection	Air Type	Sampling Equipment Info	Start Sampling Information					Stop Sampling Information					To-15					
		Indoor (I) Soil Vap (SV) Ambient (A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24 hr clock)	Canister Pressure (Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	Canister Pressure (Hg)					Interior Temp (F)	Sampler Init.
-1	SV-4	SV	A398	1L	FC175	2/17/11	0935	-30	75	RC	2/17/11	0948	-5	75	RC	X			
-2	SV-3	SV	A590	1L	FC109	2/17/11	1036	-30	75	RC	2/17/11	1048	-5	75	RC	X			
-3	SV-5	SV	A600	1L	FC402	2/17/11	1226	-28	67	RC	2/17/11	1236	-5	67	RC	X			
-4	SV-6	SV	A791	1L	FC071	2/17/11	1334	-28	68	RC	2/17/11	1348	-5	68	RC	X			
-5	SV-7	SV	A592	1L	FC100	2/17/11	1420	-30	70	RC	2/17/11	1430	-5	70	RC	X			
-6	SV-8	SV	A525	1L	FC206	2/17/11	1305	-31	75	RC	2/17/11	1315	-5	75	RC	X			
-7	SV-DUP	SV	A712	1L	FC278	2/17/11	1316	-30	75	RC	2/17/11	1324	-5	75	RC	X			
-8	SV-14	SV	A573	1L	FC388	2/18/11	1013	-29	65	RC	2/18/11	1023	-5	65	RC	X			
-9	SV-12	SV	A500	1L	FC175	2/18/11	1055	-27	66	RC	2/18/11	1105	-2	66	RC	X			
-10	SV-9	SV	A796	1L	FC257	2/18/11	1152	-30	80	RC	2/18/11	1203	-5	80	RC	X			
Turnaround Time (Business Days)						Data Deliverable Information					Comments / Remarks								
Standard - 15 Days		X		Approved By:		All NJDEP TO-15 is mandatory Full T1					Summ								
10 Day				Date: 2/12/11		Comm A													
5 Day				Comm B															
3 Day				Reduced T2															
2 Day				Full T1															
1 Day				Other:															
Other																			
Sample Custody must be documented below each time samples change possession, including courier delivery.																			
Relinquished by Laboratory		Date/Time		Received by		Date/Time		Relinquished by		Date/Time		Received by		Date/Time		Received by			
1		2/15/11		Marko MacDella		2/15/11		2		2/15/11		2		2/15/11		2			
Relinquished by		Date/Time		Received by		Date/Time		Relinquished by		Date/Time		Received by		Date/Time		Received by			
3		2/18/11		Greg 2-1-11		2-1-11		4		2/18/11		4		2/18/11		4			
Relinquished by		Date/Time		Received by		Date/Time		Relinquished by		Date/Time		Received by		Date/Time		Received by			
5								Custody Seal											

JA68565: Chain of Custody

Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA68565

Client:

Immediate Client Services Action Required: No

Date / Time Received: 2/18/2011

Delivery Method:

Client Service Action Required at Login: No

Project:

No. Coolers: 0

Airbill #'s:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infrared gun
3. Cooler media:			Ice (bag)

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			Intact

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

Summa Canister and Flow Controller Log

Page 1 of 1

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ
Received: 02/18/11

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A398	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-1	02/21/11	TVW	3.5			1
A590	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-2	02/21/11	TVW	1.5			1
A600	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-3	02/21/11	TVW	4.5			1
A791	1	29.4	02/15/11	TVW	CP4558	W30133.D	JA68565-4	02/21/11	TVW	3			1
A592	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-5	02/21/11	TVW	2.5			1
A565	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-6	02/21/11	TVW	2.5			1
A712	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-7	02/21/11	TVW	2.5			1
A573	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-8	02/21/11	TVW	3			1
A500	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-9	02/21/11	TVW	0			1
A796	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-10	02/21/11	TVW	2.5			1
A580	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-11	02/21/11	TVW	4			1
A514	1	29.4	02/15/11	TVW	CP4567	2W29765.D	JA68565-12	02/21/11	TVW	4.5			1

FLOW CONTROLLERS								
Shipping					Receiving			
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	
FC071	02/15/11	TVW	82	.166	02/21/11	TVW	105	
FC100	02/15/11	TVW	82	.166	02/21/11	TVW	85	
FC109	02/15/11	TVW	82	.166	02/21/11	TVW	87	
FC165	02/15/11	TVW	82	.166	02/21/11	TVW	85.5	
FC175	02/15/11	TVW	82	.166	02/21/11	TVW	81	
FC177	02/15/11	TVW	82	.166	02/21/11	TVW	85	
FC257	02/15/11	TVW	82	.166	02/21/11	TVW	86	
FC278	02/15/11	TVW	82	.166	02/21/11	TVW	87	
FC286	02/15/11	TVW	82	.166	02/21/11	TVW	83	
FC309	02/15/11	TVW	82	.166	02/21/11	TVW	85	
FC388	02/15/11	TVW	82	.166	02/21/11	TVW	84	
FC402	02/15/11	TVW	82	.166	02/21/11	TVW	86	

Accutest Bottle Order(s):

MC-2/3/2011-2

Prep Date **Room Temp(F)** **Bar Pres "Hg**
02/15/11 70.7 30.15

Internal Sample Tracking Chronicle

TRC

Job No: JA68565

Lockheed Electronics Co, Watchung, NJ
Project No: 116473

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA68565-1 Collected: 17-FEB-11 09:48 By: RC Received: 18-FEB-11 By: MPC SV-4						
JA68565-1	TO-15	25-FEB-11 04:54	YXC			VTO15STD
JA68565-1	TO-15	25-FEB-11 14:18	YXC			VTO15STD
JA68565-2 Collected: 17-FEB-11 10:48 By: RC Received: 18-FEB-11 By: MPC SV-3						
JA68565-2	TO-15	25-FEB-11 05:33	YXC			VTO15STD
JA68565-3 Collected: 17-FEB-11 12:36 By: RC Received: 18-FEB-11 By: MPC SV-5						
JA68565-3	TO-15	24-FEB-11 17:38	YXC			VTO15STD
JA68565-4 Collected: 17-FEB-11 13:48 By: RC Received: 18-FEB-11 By: MPC SV-6						
JA68565-4	TO-15	24-FEB-11 18:18	YXC			VTO15STD
JA68565-4	TO-15	25-FEB-11 14:57	YXC			VTO15STD
JA68565-5 Collected: 17-FEB-11 14:30 By: RC Received: 18-FEB-11 By: MPC SV-7						
JA68565-5	TO-15	24-FEB-11 19:36	YXC			VTO15STD
JA68565-5	TO-15	26-FEB-11 02:15	YXC			VTO15STD
JA68565-6 Collected: 17-FEB-11 13:15 By: RC Received: 18-FEB-11 By: MPC SV-8						
JA68565-6	TO-15	24-FEB-11 20:16	YXC			VTO15STD
JA68565-6	TO-15	25-FEB-11 16:19	YXC			VTO15STD
JA68565-7 Collected: 17-FEB-11 13:24 By: RC Received: 18-FEB-11 By: MPC SV-DUP						
JA68565-7	TO-15	24-FEB-11 20:55	YXC			VTO15STD

Internal Sample Tracking Chronicle

TRC

Job No: JA68565

Lockheed Electronics Co, Watchung, NJ
Project No: 116473

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA68565-8 Collected: 18-FEB-11 10:23 By: RC Received: 18-FEB-11 By: MPC SV-14						
JA68565-8	TO-15	24-FEB-11 21:35	YXC			VTO15STD
JA68565-9 Collected: 18-FEB-11 11:05 By: RC Received: 18-FEB-11 By: MPC SV-12						
JA68565-9	TO-15	24-FEB-11 22:14	YXC			VTO15STD
JA68565-10 Collected: 18-FEB-11 12:03 By: RC Received: 18-FEB-11 By: MPC SV-9						
JA68565-10	TO-15	24-FEB-11 22:54	YXC			VTO15STD
JA68565-10	TO-15	25-FEB-11 16:57	YXC			VTO15STD
JA68565-11 Collected: 18-FEB-11 12:52 By: RC Received: 18-FEB-11 By: MPC SV-10						
JA68565-11	TO-15	24-FEB-11 23:33	YXC			VTO15STD
JA68565-12 Collected: 18-FEB-11 13:35 By: RC Received: 18-FEB-11 By: MPC SV-11						
JA68565-12	TO-15	25-FEB-11 00:13	YXC			VTO15STD
JA68565-12	TO-15	25-FEB-11 17:37	YXC			VTO15STD

Accutest Internal Chain of Custody

Page 1 of 2

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ
Received: 02/18/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA68565-1.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-1.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-1.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-1.1	GCMS3W	Yunxia Chen	03/01/11 15:08	Unload from Instrument
JA68565-1.1	Yunxia Chen	Air Storage	03/01/11 15:08	Return to Storage
JA68565-1.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-2.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-2.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-2.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-2.1	GCMS3W	Yunxia Chen	02/25/11 11:19	Unload from Instrument
JA68565-2.1	Yunxia Chen	Air Storage	02/25/11 11:19	Return to Storage
JA68565-2.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-3.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-3.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-3.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-3.1	GCMS3W	Yunxia Chen	02/25/11 11:19	Unload from Instrument
JA68565-3.1	Yunxia Chen	Air Storage	02/25/11 11:19	Return to Storage
JA68565-3.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-4.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-4.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-4.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-4.1	GCMS3W	Yunxia Chen	03/01/11 15:08	Unload from Instrument
JA68565-4.1	Yunxia Chen	Air Storage	03/01/11 15:08	Return to Storage
JA68565-4.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-5.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-5.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-5.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-5.1	GCMS3W	Yunxia Chen	03/01/11 15:08	Unload from Instrument
JA68565-5.1	Yunxia Chen	Air Storage	03/01/11 15:08	Return to Storage
JA68565-5.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-6.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-6.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-6.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-6.1	GCMS3W	Yunxia Chen	03/01/11 15:08	Unload from Instrument
JA68565-6.1	Yunxia Chen	Air Storage	03/01/11 15:08	Return to Storage
JA68565-6.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-7.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-7.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ
Received: 02/18/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA68565-7.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-7.1	GCMS3W	Yunxia Chen	02/25/11 11:19	Unload from Instrument
JA68565-7.1	Yunxia Chen	Air Storage	02/25/11 11:19	Return to Storage
JA68565-7.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-8.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-8.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-8.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-8.1	GCMS3W	Yunxia Chen	02/25/11 11:19	Unload from Instrument
JA68565-8.1	Yunxia Chen	Air Storage	02/25/11 11:19	Return to Storage
JA68565-8.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-9.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-9.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-9.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-9.1	GCMS3W	Yunxia Chen	02/25/11 11:19	Unload from Instrument
JA68565-9.1	Yunxia Chen	Air Storage	02/25/11 11:19	Return to Storage
JA68565-9.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-10.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-10.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-10.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-10.1	GCMS3W	Yunxia Chen	03/01/11 15:08	Unload from Instrument
JA68565-10.1	Yunxia Chen	Air Storage	03/01/11 15:08	Return to Storage
JA68565-10.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-11.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-11.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-11.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-11.1	GCMS3W	Yunxia Chen	02/25/11 11:19	Unload from Instrument
JA68565-11.1	Yunxia Chen	Air Storage	02/25/11 11:19	Return to Storage
JA68565-11.1	Dave Hunkele		03/31/11 06:35	Disposed
JA68565-12.1	Andrew N. Marcelino	Air Storage	02/18/11 19:26	Return to Storage
JA68565-12.1	Air Storage	Yunxia Chen	02/24/11 12:21	Retrieve from Storage
JA68565-12.1	Yunxia Chen	GCMS3W	02/24/11 12:21	Load on Instrument
JA68565-12.1	GCMS3W	Yunxia Chen	03/01/11 15:08	Unload from Instrument
JA68565-12.1	Yunxia Chen	Air Storage	03/01/11 15:08	Return to Storage
JA68565-12.1	Dave Hunkele		03/31/11 06:35	Disposed

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method:
Instrument(s):
Analyst:

TO-15 (VTO14/15)
GCMS2W, GCMS3W, GCMSW
Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: March, 2010

Cmpd./Element/Param. Name	Analysis Date	Spike ppbv	Replicate Spikes							R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
			R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv							
Acetone	9-Mar-10	0.1	0.16	0.12	0.10	0.13	0.14	0.15	0.14	0.13	134.91	0.02	0.06	1.63	
Acrolein	5-Mar-10	0.2	0.13	0.13	0.13	0.11	0.12	0.13	0.14	0.13	63.82	0.01	0.03	7.80	
1,3-Butadiene	24-Feb-10	0.1	0.12	0.10	0.10	0.11	0.12	0.10	0.11	0.11	107.28	0.01	0.03	3.52	
Benzene	9-Mar-10	0.2	0.20	0.24	0.20	0.19	0.19	0.21	0.20	0.21	103.35	0.02	0.05	4.06	
Bromodichloromethane	5-Mar-10	0.1	0.05	0.07	0.06	0.07	0.07	0.07	0.07	0.06	63.63	0.01	0.03	3.98	
Bromoform	5-Mar-10	0.2	0.15	0.15	0.13	0.14	0.14	0.14	0.14	0.14	70.85	0.01	0.02	8.16	
Bromomethane	24-Feb-10	0.1	0.13	0.11	0.11	0.12	0.12	0.11	0.12	0.12	117.75	0.01	0.03	3.83	
Bromoethane	9-Mar-10	0.1	0.11	0.12	0.10	0.11	0.13	0.12	0.10	0.11	112.36	0.01	0.03	3.12	
n-Butane	24-Feb-10	0.1	0.14	0.11	0.11	0.11	0.13	0.11	0.12	0.12	120.12	0.01	0.04	2.40	
Benzyl Chloride	5-Mar-10	0.2	0.12	0.12	0.10	0.11	0.11	0.09	0.11	0.11	53.60	0.01	0.03	5.83	
n-Butylbenzene	9-Mar-10	0.2	0.12	0.16	0.10	0.10	0.08	0.12	0.09	0.11	55.08	0.03	0.09	2.21	
sec-Butylbenzene	24-Feb-10	0.1	0.08	0.07	0.08	0.07	0.06	0.05	0.05	0.07	66.88	0.01	0.04	2.83	
tert-Butylbenzene	5-Mar-10	0.1	0.03	0.05	0.04	0.06	0.06	0.05	0.05	0.05	49.15	0.01	0.03	3.41	
Carbon disulfide	5-Mar-10	0.1	0.06	0.08	0.07	0.08	0.08	0.08	0.08	0.08	75.71	0.01	0.03	3.44	
Chlorobenzene	5-Mar-10	0.1	0.06	0.08	0.06	0.09	0.08	0.08	0.08	0.08	76.01	0.01	0.03	3.25	
Chlorodifluoromethane	9-Mar-10	0.1	0.18	0.14	0.17	0.14	0.14	0.17	0.17	0.16	157.46	0.02	0.06	1.66	
Chloroethane	24-Feb-10	0.1	0.13	0.10	0.11	0.12	0.14	0.10	0.10	0.12	115.77	0.02	0.05	2.00	
Chloroform	24-Feb-10	0.1	0.13	0.11	0.12	0.11	0.12	0.11	0.11	0.12	116.16	0.01	0.03	3.90	
Chloromethane	9-Mar-10	0.1	0.08	0.13	0.12	0.11	0.09	0.12	0.11	0.11	109.61	0.02	0.05	1.88	
3-Chloropropene	9-Mar-10	0.1	0.06	0.10	0.08	0.08	0.09	0.09	0.08	0.08	82.55	0.01	0.04	2.85	
2-Chlorotoluene	24-Feb-10	0.1	0.09	0.08	0.07	0.07	0.10	0.08	0.08	0.08	81.27	0.01	0.03	3.09	
Carbon tetrachloride	5-Mar-10	0.2	0.18	0.18	0.17	0.16	0.18	0.17	0.17	0.17	86.27	0.01	0.02	8.76	
Cyclohexane	9-Mar-10	0.1	0.10	0.08	0.07	0.06	0.10	0.08	0.08	0.08	80.45	0.01	0.04	2.41	
1,1-Dichloroethane	5-Mar-10	0.1	0.05	0.07	0.06	0.07	0.07	0.07	0.07	0.07	67.70	0.01	0.02	4.08	
1,1-Dichloroethylene	5-Mar-10	0.2	0.21	0.21	0.20	0.20	0.21	0.19	0.19	0.20	100.32	0.01	0.02	8.40	
1,2-Dibromoethane	24-Feb-10	0.2	0.15	0.16	0.15	0.15	0.14	0.13	0.16	0.15	74.73	0.01	0.03	6.72	
1,2-Dichloroethane	5-Mar-10	0.1	0.05	0.07	0.05	0.07	0.07	0.07	0.07	0.06	63.01	0.01	0.02	4.23	
1,2-Dichloropropane	9-Mar-10	0.1	0.09	0.13	0.09	0.09	0.12	0.09	0.11	0.10	104.14	0.02	0.05	1.86	
1,4-Dioxane	24-Feb-10	0.2	0.15	0.14	0.14	0.14	0.17	0.15	0.17	0.15	76.92	0.01	0.04	5.07	
Dichlorodifluoromethane	9-Mar-10	0.1	0.13	0.09	0.15	0.14	0.14	0.16	0.16	0.14	140.66	0.02	0.07	1.36	
Dibromochloromethane	9-Mar-10	0.2	0.22	0.27	0.20	0.20	0.18	0.21	0.21	0.21	106.69	0.03	0.08	2.44	
trans-1,2-Dichloroethylene	24-Feb-10	0.1	0.13	0.10	0.12	0.10	0.12	0.10	0.11	0.11	109.97	0.01	0.04	2.84	
cis-1,2-Dichloroethylene	24-Feb-10	0.2	0.19	0.16	0.18	0.18	0.16	0.17	0.18	0.17	87.15	0.01	0.03	6.39	
cis-1,3-Dichloropropene	5-Mar-10	0.1	0.04	0.06	0.05	0.06	0.06	0.06	0.06	0.05	53.97	0.01	0.02	4.58	
m-Dichlorobenzene	5-Mar-10	0.1	0.03	0.05	0.04	0.05	0.05	0.05	0.04	0.05	46.14	0.01	0.03	3.99	
o-Dichlorobenzene	9-Mar-10	0.1	0.05	0.04	0.07	0.05	0.04	0.04	0.04	0.05	48.39	0.01	0.03	3.16	
p-Dichlorobenzene	5-Mar-10	0.1	0.03	0.05	0.04	0.05	0.06	0.05	0.04	0.05	45.72	0.01	0.03	3.71	

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMS2W, GCMS3W, GCMSW
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: March, 2010

Cmpd./Element/Param. Name	Analysis Date	Spike ppbv	Replicate Spikes										X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
			R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv								
trans-1,3-Dichloropropene	9-Mar-10	0.2	0.15	0.20	0.14	0.14	0.13	0.17	0.15	0.15	76.22	0.03	0.08	0.08	2.55		
Di-Isopropyl ether	5-Mar-10	0.1	0.05	0.07	0.06	0.07	0.07	0.07	0.07	0.06	63.42	0.01	0.02	0.02	4.06		
2,3-Dimethylpentane	24-Feb-10	0.2	0.24	0.22	0.25	0.24	0.24	0.21	0.23	0.23	115.99	0.01	0.04	0.04	4.77		
2,4-Dimethylpentane	24-Feb-10	0.1	0.11	0.09	0.09	0.09	0.09	0.09	0.09	0.09	92.44	0.01	0.02	0.02	4.97		
Ethanol	9-Mar-10	0.2	0.46	0.35	0.30	0.32	0.36	0.34	0.40	0.36	180.71	0.05	0.17	0.17	1.19		
Ethylbenzene	5-Mar-10	0.1	0.05	0.07	0.05	0.07	0.07	0.07	0.07	0.06	64.44	0.01	0.03	0.03	3.71		
Ethyl Acetate	9-Mar-10	0.2	0.13	0.18	0.13	0.10	0.14	0.14	0.15	0.14	68.76	0.02	0.08	0.08	2.60		
4-Ethyltoluene	5-Mar-10	0.1	0.03	0.05	0.04	0.05	0.05	0.05	0.04	0.05	45.81	0.01	0.02	0.02	4.16		
Freon 113	9-Mar-10	0.1	0.13	0.15	0.13	0.13	0.13	0.15	0.14	0.14	138.16	0.01	0.03	0.03	3.88		
Freon 114	5-Mar-10	0.2	0.20	0.19	0.18	0.18	0.20	0.18	0.18	0.19	92.57	0.01	0.03	0.03	6.83		
Freon 123	24-Feb-10	0.1	0.13	0.12	0.13	0.12	0.13	0.12	0.12	0.12	124.69	0.01	0.02	0.02	4.61		
Freon 123A	5-Mar-10	0.1	0.07	0.09	0.07	0.09	0.09	0.09	0.09	0.08	84.85	0.01	0.03	0.03	3.64		
Freon 152A	9-Mar-10	0.1	0.13	0.12	0.11	0.12	0.14	0.10	0.12	0.12	119.27	0.01	0.04	0.04	2.62		
Heptane	24-Feb-10	0.2	0.19	0.21	0.20	0.20	0.20	0.19	0.20	0.20	99.44	0.01	0.02	0.02	8.47		
Hexachlorobutadiene	5-Mar-10	0.1	0.03	0.09	0.04	0.07	0.07	0.06	0.06	0.06	62.03	0.02	0.06	0.06	1.68		
Hexane	24-Feb-10	0.1	0.11	0.09	0.09	0.10	0.10	0.10	0.10	0.10	100.42	0.01	0.02	0.02	4.62		
2-Hexanone	9-Mar-10	0.2	0.07	0.10	0.06	0.06	0.08	0.08	0.06	0.07	35.22	0.01	0.04	0.04	4.70		
Iodomethane	5-Mar-10	0.2	0.20	0.20	0.20	0.19	0.21	0.19	0.20	0.20	98.33	0.01	0.02	0.02	8.51		
Isopropylbenzene	5-Mar-10	0.1	0.05	0.07	0.05	0.07	0.07	0.07	0.06	0.06	63.30	0.01	0.03	0.03	3.54		
Isopropyl Alcohol	9-Mar-10	0.1	0.13	0.09	0.11	0.14	0.13	0.12	0.11	0.12	117.50	0.02	0.05	0.05	1.83		
p-Isopropyltoluene	5-Mar-10	0.1	0.02	0.05	0.03	0.04	0.04	0.03	0.03	0.03	34.58	0.01	0.03	0.03	3.79		
Methylene chloride	5-Mar-10	0.2	0.22	0.23	0.22	0.22	0.23	0.21	0.22	0.22	110.79	0.01	0.03	0.03	7.48		
Methyl ethyl ketone	9-Mar-10	0.1	0.06	0.06	0.05	0.07	0.05	0.04	0.05	0.05	54.10	0.01	0.03	0.03	3.29		
Methyl Isobutyl Ketone	24-Feb-10	0.1	0.11	0.08	0.08	0.09	0.09	0.09	0.08	0.09	88.13	0.01	0.04	0.04	2.70		
Methyl Tert Butyl Ether	5-Mar-10	0.1	0.05	0.07	0.06	0.09	0.09	0.08	0.08	0.08	75.43	0.01	0.04	0.04	2.35		
Methylmethacrylate	24-Feb-10	0.1	0.10	0.07	0.10	0.09	0.09	0.09	0.08	0.09	87.78	0.01	0.03	0.03	2.97		
Nonane	5-Mar-10	0.1	0.04	0.05	0.04	0.05	0.05	0.05	0.04	0.04	44.34	0.01	0.02	0.02	5.57		
Octane	24-Feb-10	0.1	0.11	0.10	0.10	0.11	0.11	0.08	0.09	0.10	101.20	0.01	0.03	0.03	3.04		
Pentane	9-Mar-10	0.1	0.09	0.17	0.14	0.13	0.12	0.12	0.13	0.13	128.84	0.02	0.08	0.08	1.32		
n-Propylbenzene	9-Mar-10	0.2	0.12	0.17	0.13	0.11	0.11	0.12	0.10	0.12	61.25	0.02	0.07	0.07	2.86		
Propane	5-Mar-10	0.1	0.12	0.14	0.12	0.11	0.12	0.13	0.12	0.12	123.15	0.01	0.02	0.02	4.55		
Propylene	9-Mar-10	0.1	0.10	0.17	0.12	0.09	0.10	0.11	0.16	0.12	120.70	0.03	0.10	0.10	1.05		
Styrene	24-Feb-10	0.1	0.09	0.07	0.08	0.08	0.07	0.06	0.07	0.07	73.16	0.01	0.03	0.03	3.77		
1,1,1-Trichloroethane	5-Mar-10	0.1	0.06	0.08	0.06	0.08	0.08	0.08	0.08	0.07	71.98	0.01	0.02	0.02	4.13		
1,1,1,2-Tetrachloroethane	5-Mar-10	0.1	0.06	0.08	0.06	0.08	0.08	0.08	0.08	0.07	74.47	0.01	0.03	0.03	3.27		
1,1,2,2-Tetrachloroethane	5-Mar-10	0.1	0.04	0.05	0.04	0.06	0.06	0.05	0.05	0.05	49.85	0.01	0.03	0.03	3.93		
1,1,2-Trichloroethane	5-Mar-10	0.1	0.05	0.06	0.05	0.06	0.07	0.06	0.06	0.06	59.01	0.01	0.02	0.02	4.17		
1,2,4-Trichlorobenzene	24-Feb-10	0.2	0.15	0.08	0.06	0.03	0.07	0.05	0.07	0.07	35.54	0.04	0.11	0.11	1.74		
1,2,3-Trichloropropane	5-Mar-10	0.2	0.18	0.17	0.15	0.15	0.15	0.15	0.17	0.16	80.08	0.01	0.04	0.04	5.10		
2,2,4-Trimethylbenzene	5-Mar-10	0.1	0.03	0.05	0.04	0.05	0.05	0.05	0.04	0.05	45.24	0.01	0.03	0.03	3.68		

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMS2W, GCMS3W, GCMSW
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: March, 2010

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes						R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
			R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv						
1,3,5-Trimethylbenzene	5-Mar-10	0.1	0.04	0.06	0.04	0.06	0.06	0.05	0.05	0.05	51.68	0.01	0.03	3.69
2,2,4-Trimethylpentane	24-Feb-10	0.1	0.12	0.10	0.10	0.10	0.11	0.10	0.10	0.11	106.20	0.01	0.02	4.81
Tertiary Butyl Alcohol	24-Feb-10	0.2	0.20	0.19	0.17	0.16	0.19	0.19	0.19	0.18	91.68	0.01	0.04	5.12
Tetrachloroethylene	24-Feb-10	0.1	0.15	0.11	0.12	0.12	0.12	0.11	0.12	0.12	120.45	0.01	0.04	2.46
Tetrahydrofuran	9-Mar-10	0.2	0.11	0.16	0.13	0.10	0.12	0.11	0.12	0.12	60.53	0.02	0.06	3.50
Toluene	5-Mar-10	0.1	0.05	0.07	0.05	0.07	0.07	0.07	0.06	0.06	62.72	0.01	0.03	3.98
Trichloroethylene	5-Mar-10	0.1	0.05	0.07	0.06	0.07	0.07	0.07	0.07	0.07	65.03	0.01	0.02	4.14
Trichlorofluoromethane	9-Mar-10	0.1	0.15	0.16	0.17	0.16	0.15	0.17	0.18	0.16	162.87	0.01	0.03	3.12
Vinyl chloride	5-Mar-10	0.1	0.06	0.08	0.06	0.07	0.08	0.08	0.08	0.07	73.64	0.01	0.03	3.41
Vinyl Acetate	9-Mar-10	0.2	0.19	0.16	0.10	0.08	0.08	0.10	0.12	0.12	58.69	0.04	0.13	1.50
m,p-Xylene	24-Feb-10	0.2	0.23	0.19	0.20	0.21	0.22	0.18	0.18	0.20	100.52	0.02	0.06	3.39
o-Xylene	5-Mar-10	0.1	0.05	0.07	0.05	0.07	0.07	0.06	0.06	0.06	63.06	0.01	0.03	3.90
TVHC As Equiv Pentane	9-Mar-10	0.2	0.25	0.44	0.35	0.23	0.29	0.34	0.30	0.31	157.22	0.07	0.22	0.91
TVHC As Equiv Heptane	9-Mar-10	0.2	0.20	0.27	0.19	0.20	0.17	0.22	0.19	0.21	103.53	0.03	0.10	1.96

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W828-MB	3W20975.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples:

Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.061	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.049	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.025	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.026	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.034	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.031	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.050	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.053	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.032	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.023	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.042	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.025	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.024	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.024	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.054	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.040	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.073	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.082	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.031	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.022	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.032	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.079	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.027	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.077	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W828-MB	3W20975.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples:

Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.026	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.029	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.024	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.060	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.022	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.055	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.030	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.037	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.043	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.034	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.096	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.039	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.057	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.025	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.024	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.029	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.13	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.059	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W828-MB	3W20975.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples: Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	84% 65-128%

Method Blank Summary

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Job Number: JA68565**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W829-MB	3W21006.D	1	02/25/11	YXC	n/a	n/a	V3W829

The QC reported here applies to the following samples:**Method:** TO-15

JA68565-1, JA68565-4, JA68565-5, JA68565-6, JA68565-10, JA68565-12

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.061	ppbv		ND	0.48	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	78% 65-128%

Method Blank Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-MB	W30129.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here applies to the following samples:

Method: TO-15

VW1236-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.061	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.049	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.025	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.026	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.034	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.031	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.050	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.053	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.032	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.023	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.042	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.025	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.024	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.024	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.054	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.040	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.073	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.082	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.031	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.022	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.032	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.079	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.027	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.077	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-MB	W30129.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here applies to the following samples:

Method: TO-15

VW1236-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.026	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.029	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.024	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.060	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.022	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.055	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.030	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.037	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.043	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.034	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.096	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.039	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.057	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.025	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.024	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.029	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.13	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.059	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-MB	W30129.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here applies to the following samples: Method: TO-15

VW1236-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	86% 65-128%

Method Blank Summary**Job Number:** JA68565**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-MB	2W29761.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here applies to the following samples:**Method:** TO-15

V2W1256-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.061	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.049	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.025	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.026	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.034	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.031	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.050	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.053	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.032	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.023	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.042	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.025	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.024	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.024	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.054	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.040	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.073	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.082	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.031	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.022	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.032	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.079	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.027	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.077	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-MB	2W29761.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here applies to the following samples:

Method: TO-15

V2W1256-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.026	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.029	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.024	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.060	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.022	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.055	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.030	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.037	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.043	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.034	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.096	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.039	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.057	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.025	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.024	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.029	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.13	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.059	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-MB	2W29761.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here applies to the following samples: Method: TO-15

V2W1256-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	89% 65-128%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W828-BS	3W20973.D	1	02/24/11	YXC	n/a	n/a	V3W828
V3W828-BSD	3W20974.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples:

Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.1	91	8.8	88	3	70-130/30
106-99-0	1,3-Butadiene	10	9.8	98	9.9	99	1	70-130/30
71-43-2	Benzene	10	10.5	105	10.4	104	1	70-130/30
75-27-4	Bromodichloromethane	10	10.9	109	10.8	108	1	70-130/30
75-25-2	Bromoform	10	10.1	101	10.2	102	1	70-130/30
74-83-9	Bromomethane	10	9.6	96	9.7	97	1	70-130/30
593-60-2	Bromoethene	10	10	100	10.0	100	0	70-130/30
100-44-7	Benzyl Chloride	10	10.1	101	10.3	103	2	70-130/30
75-15-0	Carbon disulfide	10	9.6	96	9.5	95	1	70-130/30
108-90-7	Chlorobenzene	10	9.7	97	9.8	98	1	70-130/30
75-00-3	Chloroethane	10	11.3	113	11.3	113	0	70-130/30
67-66-3	Chloroform	10	10.7	107	10.7	107	0	70-130/30
74-87-3	Chloromethane	10	10.9	109	10.9	109	0	70-130/30
107-05-1	3-Chloropropene	10	11.2	112	11.1	111	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.3	103	10.4	104	1	70-130/30
56-23-5	Carbon tetrachloride	10	11.0	110	11.1	111	1	70-130/30
110-82-7	Cyclohexane	10	10.3	103	10.2	102	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.9	109	10.9	109	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.4	94	9.4	94	0	70-130/30
106-93-4	1,2-Dibromoethane	10	10.9	109	11.0	110	1	70-130/30
107-06-2	1,2-Dichloroethane	10	12.7	127	12.5	125	2	70-130/30
78-87-5	1,2-Dichloropropane	10	10.8	108	10.8	108	0	70-130/30
123-91-1	1,4-Dioxane	10	9.4	94	9.6	96	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.5	95	9.4	94	1	70-130/30
124-48-1	Dibromochloromethane	10	10.2	102	10.0	100	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.5	105	10.7	107	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.4	104	10.4	104	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	12.3	123	12.2	122	1	70-130/30
541-73-1	m-Dichlorobenzene	10	11.7	117	11.9	119	2	70-130/30
95-50-1	o-Dichlorobenzene	10	11.4	114	11.6	116	2	70-130/30
106-46-7	p-Dichlorobenzene	10	11.0	110	11.1	111	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	13.3	133* a	13.0	130	2	70-130/30
64-17-5	Ethanol	10	9.0	90	8.9	89	1	70-130/30
100-41-4	Ethylbenzene	10	10.3	103	10.4	104	1	70-130/30
141-78-6	Ethyl Acetate	10	9.2	92	9.4	94	2	70-130/30
622-96-8	4-Ethyltoluene	10	9.4	94	9.6	96	2	70-130/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W828-BS	3W20973.D	1	02/24/11	YXC	n/a	n/a	V3W828
V3W828-BSD	3W20974.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples:

Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.7	97	9.8	98	1	70-130/30
76-14-2	Freon 114	10	9.6	96	9.5	95	1	70-130/30
142-82-5	Heptane	10	11.1	111	11.3	113	2	70-130/30
87-68-3	Hexachlorobutadiene	10	13.1	131* a	13.5	135* a	3	70-130/30
110-54-3	Hexane	10	10.4	104	10.4	104	0	70-130/30
591-78-6	2-Hexanone	10	9.9	99	10.2	102	3	70-130/30
67-63-0	Isopropyl Alcohol	10	9.8	98	9.9	99	1	70-130/30
75-09-2	Methylene chloride	10	10.3	103	10.6	106	3	70-130/30
78-93-3	Methyl ethyl ketone	10	9.5	95	9.7	97	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.3	103	10.3	103	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.1	81	8.1	81	0	70-130/30
80-62-6	Methylmethacrylate	10	9.3	93	9.2	92	1	70-130/30
115-07-1	Propylene	10	9.5	95	9.4	94	1	70-130/30
100-42-5	Styrene	10	12.2	122	12.3	123	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.6	106	10.6	106	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	12.1	121	12.1	121	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	12.0	120	11.6	116	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.3	103	10.9	109	6	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.5	95	9.7	97	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.2	92	9.2	92	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.7	107	10.7	107	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.0	100	10.0	100	0	70-130/30
127-18-4	Tetrachloroethylene	10	8.7	87	8.9	89	2	70-130/30
109-99-9	Tetrahydrofuran	10	9.4	94	8.9	89	5	70-130/30
108-88-3	Toluene	10	10.7	107	10.6	106	1	70-130/30
79-01-6	Trichloroethylene	10	9.5	95	9.5	95	0	70-130/30
75-69-4	Trichlorofluoromethane	10	9.8	98	9.8	98	0	70-130/30
75-01-4	Vinyl chloride	10	10.2	102	10.2	102	0	70-130/30
108-05-4	Vinyl Acetate	10	10.4	104	10.0	100	4	70-130/30
	m,p-Xylene	20	20.0	100	20.1	101	0	70-130/30
95-47-6	o-Xylene	10	10.3	103	10.3	103	0	70-130/30
1330-20-7	Xylenes (total)	30	30.3	101	30.4	101	0	70-130/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W828-BS	3W20973.D	1	02/24/11	YXC	n/a	n/a	V3W828
V3W828-BSD	3W20974.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples:

Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	102%	65-128%

(a) High percent recoveries and no associated positive found in the QC batch.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA68565**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W829-BS	3W21004.D	1	02/25/11	YXC	n/a	n/a	V3W829
V3W829-BSD	3W21005.D	1	02/25/11	YXC	n/a	n/a	V3W829

The QC reported here applies to the following samples:**Method:** TO-15

JA68565-1, JA68565-4, JA68565-5, JA68565-6, JA68565-10, JA68565-12

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.5	95	9.2	92	3	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	110%	109%	65-128%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA68565**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-BS	W30127.D	1	02/11/11	YMH	n/a	n/a	VW1236
VW1236-BSD	W30128.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here applies to the following samples:**Method:** TO-15

VW1236-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.1	91	9.2	92	1	70-130/30
106-99-0	1,3-Butadiene	10	9.1	91	9.6	96	5	70-130/30
71-43-2	Benzene	10	9.5	95	9.8	98	3	70-130/30
75-27-4	Bromodichloromethane	10	10	100	10.4	104	4	70-130/30
75-25-2	Bromoform	10	10.8	108	10.9	109	1	70-130/30
74-83-9	Bromomethane	10	9.6	96	10.2	102	6	70-130/30
593-60-2	Bromoethene	10	10.3	103	10.7	107	4	70-130/30
100-44-7	Benzyl Chloride	10	9.9	99	9.7	97	2	70-130/30
75-15-0	Carbon disulfide	10	9.2	92	9.6	96	4	70-130/30
108-90-7	Chlorobenzene	10	10.7	107	10.6	106	1	70-130/30
75-00-3	Chloroethane	10	10.0	100	10.6	106	6	70-130/30
67-66-3	Chloroform	10	9.3	93	9.8	98	5	70-130/30
74-87-3	Chloromethane	10	9.8	98	10.4	104	6	70-130/30
107-05-1	3-Chloropropene	10	9.9	99	10.1	101	2	70-130/30
95-49-8	2-Chlorotoluene	10	11.5	115	11.5	115	0	70-130/30
56-23-5	Carbon tetrachloride	10	9.5	95	10.0	100	5	70-130/30
110-82-7	Cyclohexane	10	9.1	91	9.6	96	5	70-130/30
75-34-3	1,1-Dichloroethane	10	9.7	97	9.9	99	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.1	101	10.7	107	6	70-130/30
106-93-4	1,2-Dibromoethane	10	10.6	106	10.7	107	1	70-130/30
107-06-2	1,2-Dichloroethane	10	10.1	101	10.6	106	5	70-130/30
78-87-5	1,2-Dichloropropane	10	9.5	95	9.7	97	2	70-130/30
123-91-1	1,4-Dioxane	10	8.3	83	8.5	85	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.7	97	10.3	103	6	70-130/30
124-48-1	Dibromochloromethane	10	10.7	107	10.9	109	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.3	93	9.6	96	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.2	92	9.7	97	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.9	99	10.2	102	3	70-130/30
541-73-1	m-Dichlorobenzene	10	11.2	112	11.0	110	2	70-130/30
95-50-1	o-Dichlorobenzene	10	11.0	110	10.8	108	2	70-130/30
106-46-7	p-Dichlorobenzene	10	11.1	111	10.9	109	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.2	102	10.4	104	2	70-130/30
64-17-5	Ethanol	10	9.2	92	8.7	87	6	70-130/30
100-41-4	Ethylbenzene	10	10.7	107	10.5	105	2	70-130/30
141-78-6	Ethyl Acetate	10	9.1	91	9.5	95	4	70-130/30
622-96-8	4-Ethyltoluene	10	11.7	117	11.5	115	2	70-130/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-BS	W30127.D	1	02/11/11	YMH	n/a	n/a	VW1236
VW1236-BSD	W30128.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here applies to the following samples:

Method: TO-15

VW1236-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.6	106	10.9	109	3	70-130/30
76-14-2	Freon 114	10	9.4	94	9.9	99	5	70-130/30
142-82-5	Heptane	10	9.5	95	9.8	98	3	70-130/30
87-68-3	Hexachlorobutadiene	10	9.5	95	9.3	93	2	70-130/30
110-54-3	Hexane	10	8.9	89	9.4	94	5	70-130/30
591-78-6	2-Hexanone	10	9.3	93	9.1	91	2	70-130/30
67-63-0	Isopropyl Alcohol	10	9.5	95	9.8	98	3	70-130/30
75-09-2	Methylene chloride	10	9.3	93	9.8	98	5	70-130/30
78-93-3	Methyl ethyl ketone	10	8.9	89	8.9	89	0	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.3	93	9.7	97	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.5	95	9.7	97	2	70-130/30
80-62-6	Methylmethacrylate	10	9.0	90	8.7	87	3	70-130/30
115-07-1	Propylene	10	9.3	93	10.1	101	8	70-130/30
100-42-5	Styrene	10	11.4	114	11.2	112	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.6	96	10.1	101	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.2	102	10.1	101	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.7	97	10.0	100	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.6	106	11.1	111	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.6	116	11.5	115	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	12.0	120	11.7	117	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.7	97	10.1	101	4	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.0	90	9.6	96	6	70-130/30
127-18-4	Tetrachloroethylene	10	11.1	111	11.3	113	2	70-130/30
109-99-9	Tetrahydrofuran	10	9.3	93	9.3	93	0	70-130/30
108-88-3	Toluene	10	10.3	103	10.3	103	0	70-130/30
79-01-6	Trichloroethylene	10	9.8	98	10.1	101	3	70-130/30
75-69-4	Trichlorofluoromethane	10	10.1	101	10.6	106	5	70-130/30
75-01-4	Vinyl chloride	10	9.3	93	9.6	96	3	70-130/30
108-05-4	Vinyl Acetate	10	9.4	94	9.6	96	2	70-130/30
	m,p-Xylene	20	22.4	112	22.1	111	1	70-130/30
95-47-6	o-Xylene	10	10.9	109	11.0	110	1	70-130/30
1330-20-7	Xylenes (total)	30	33.3	111	33.1	110	1	70-130/30

Blank Spike/Blank Spike Duplicate Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-BS	W30127.D	1	02/11/11	YMH	n/a	n/a	VW1236
VW1236-BSD	W30128.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here applies to the following samples: Method: TO-15

VW1236-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	99%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-BS	2W29759.D	1	02/14/11	YMH	n/a	n/a	V2W1256
V2W1256-BSD	2W29760.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here applies to the following samples:

Method: TO-15

V2W1256-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.5	85	7.9	79	7	70-130/30
106-99-0	1,3-Butadiene	10	8.9	89	9.2	92	3	70-130/30
71-43-2	Benzene	10	9.1	91	9.4	94	3	70-130/30
75-27-4	Bromodichloromethane	10	9.6	96	10.6	106	10	70-130/30
75-25-2	Bromoform	10	9.7	97	10.3	103	6	70-130/30
74-83-9	Bromomethane	10	8.6	86	9.1	91	6	70-130/30
593-60-2	Bromoethene	10	9.0	90	9.6	96	6	70-130/30
100-44-7	Benzyl Chloride	10	10.4	104	10.9	109	5	70-130/30
75-15-0	Carbon disulfide	10	8.4	84	8.6	86	2	70-130/30
108-90-7	Chlorobenzene	10	9.5	95	10.0	100	5	70-130/30
75-00-3	Chloroethane	10	8.6	86	9.1	91	6	70-130/30
67-66-3	Chloroform	10	9.2	92	9.9	99	7	70-130/30
74-87-3	Chloromethane	10	8.7	87	8.7	87	0	70-130/30
107-05-1	3-Chloropropene	10	9.7	97	9.9	99	2	70-130/30
95-49-8	2-Chlorotoluene	10	9.9	99	10.6	106	7	70-130/30
56-23-5	Carbon tetrachloride	10	8.3	83	9.0	90	8	70-130/30
110-82-7	Cyclohexane	10	8.3	83	8.6	86	4	70-130/30
75-34-3	1,1-Dichloroethane	10	8.7	87	9.2	92	6	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.7	87	9.2	92	6	70-130/30
106-93-4	1,2-Dibromoethane	10	10.0	100	10.3	103	3	70-130/30
107-06-2	1,2-Dichloroethane	10	10.1	101	10.4	104	3	70-130/30
78-87-5	1,2-Dichloropropane	10	9.7	97	9.9	99	2	70-130/30
123-91-1	1,4-Dioxane	10	10.1	101	10.6	106	5	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.1	81	8.5	85	5	70-130/30
124-48-1	Dibromochloromethane	10	9.9	99	10.4	104	5	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.7	87	9.2	92	6	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.7	97	10.0	100	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.9	99	10.0	100	1	70-130/30
541-73-1	m-Dichlorobenzene	10	10	100	10.7	107	7	70-130/30
95-50-1	o-Dichlorobenzene	10	10.2	102	10.5	105	3	70-130/30
106-46-7	p-Dichlorobenzene	10	9.7	97	10.1	101	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.7	107	10.8	108	1	70-130/30
64-17-5	Ethanol	10	7.9	79	7.7	77	3	70-130/30
100-41-4	Ethylbenzene	10	9.8	98	10.3	103	5	70-130/30
141-78-6	Ethyl Acetate	10	8.3	83	8.4	84	1	70-130/30
622-96-8	4-Ethyltoluene	10	10.6	106	11.3	113	6	70-130/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-BS	2W29759.D	1	02/14/11	YMH	n/a	n/a	V2W1256
V2W1256-BSD	2W29760.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here applies to the following samples:

Method: TO-15

V2W1256-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	8.3	83	9.2	92	10	70-130/30
76-14-2	Freon 114	10	8.1	81	8.6	86	6	70-130/30
142-82-5	Heptane	10	9.4	94	9.7	97	3	70-130/30
87-68-3	Hexachlorobutadiene	10	10.0	100	10.8	108	8	70-130/30
110-54-3	Hexane	10	8.3	83	8.8	88	6	70-130/30
591-78-6	2-Hexanone	10	9.0	90	8.7	87	3	70-130/30
67-63-0	Isopropyl Alcohol	10	8.5	85	9.2	92	8	70-130/30
75-09-2	Methylene chloride	10	8.7	87	9.1	91	4	70-130/30
78-93-3	Methyl ethyl ketone	10	8.9	89	8.5	85	5	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.8	88	9.0	90	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.0	90	9.9	99	10	70-130/30
80-62-6	Methylmethacrylate	10	9.3	93	9.4	94	1	70-130/30
115-07-1	Propylene	10	8.9	89	8.9	89	0	70-130/30
100-42-5	Styrene	10	10.7	107	11.0	110	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.5	85	9.2	92	8	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.6	96	10.1	101	5	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.2	102	10.7	107	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.2	82	8.8	88	7	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.7	107	11.4	114	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.1	101	10.9	109	8	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.3	83	8.6	86	4	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.4	84	9.6	96	13	70-130/30
127-18-4	Tetrachloroethylene	10	8.9	89	9.7	97	9	70-130/30
109-99-9	Tetrahydrofuran	10	8.3	83	8.5	85	2	70-130/30
108-88-3	Toluene	10	10	100	10.5	105	5	70-130/30
79-01-6	Trichloroethylene	10	8.4	84	8.6	86	2	70-130/30
75-69-4	Trichlorofluoromethane	10	8.2	82	8.9	89	8	70-130/30
75-01-4	Vinyl chloride	10	8.4	84	8.6	86	2	70-130/30
108-05-4	Vinyl Acetate	10	10.9	109	10.9	109	0	70-130/30
	m,p-Xylene	20	20.0	100	21.2	106	6	70-130/30
95-47-6	o-Xylene	10	9.8	98	10.6	106	8	70-130/30
1330-20-7	Xylenes (total)	30	29.9	100	31.7	106	6	70-130/30

Blank Spike/Blank Spike Duplicate Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-BS	2W29759.D	1	02/14/11	YMH	n/a	n/a	V2W1256
V2W1256-BSD	2W29760.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here applies to the following samples: Method: TO-15

V2W1256-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	97%	98%	65-128%

Duplicate Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA68565-4DUP	3W20986.D	1	02/24/11	YXC	n/a	n/a	V3W828
JA68565-4	3W20985.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples:

Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Compound	JA68565-4 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone	248	E	195	E	24	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	0.51	J	0.41	J	22* a	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	5.4		4.6		16* a	11
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	ND		ND		nc	12
74-87-3	Chloromethane	ND		ND		nc	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	10
110-82-7	Cyclohexane	ND		ND		nc	12
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	ND		ND		nc	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	2.0		1.8		11	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	1.5		1.3		14	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	104		85.2		20	33
100-41-4	Ethylbenzene	ND		ND		nc	15
141-78-6	Ethyl Acetate	14.3		10.8		28* a	20
622-96-8	4-Ethyltoluene	ND		ND		nc	13

Duplicate Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA68565-4DUP	3W20986.D	1	02/24/11	YXC	n/a	n/a	V3W828
JA68565-4	3W20985.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples:

Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Compound	JA68565-4 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	4.7		4.0		16* a	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	0.57	J	0.44	J	26* a	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	0.58	J	0.51	J	13	17
591-78-6	2-Hexanone	ND		ND		nc	20
67-63-0	Isopropyl Alcohol	17.0		14.1		19	26
75-09-2	Methylene chloride	ND		ND		nc	26
78-93-3	Methyl ethyl ketone	4.2		3.2		27* a	21
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	2.4		2.2		9	16
100-42-5	Styrene	ND		ND		nc	11
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	1.0		0.77	J	26* a	19
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	13
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	18
75-65-0	Tertiary Butyl Alcohol	1.0		0.79	J	23* a	21
127-18-4	Tetrachloroethylene	0.58		0.49		17	17
109-99-9	Tetrahydrofuran	ND		ND		nc	20
108-88-3	Toluene	2.4		2.0		18	20
79-01-6	Trichloroethylene	46.0		38.9		17* a	13
75-69-4	Trichlorofluoromethane	0.49	J	0.42	J	15	21
75-01-4	Vinyl chloride	ND		ND		nc	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	1.4		1.2		15	26
95-47-6	o-Xylene	0.91		0.81		12	20
1330-20-7	Xylenes (total)	2.4		2.0		18	26

Duplicate Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA68565-4DUP	3W20986.D	1	02/24/11	YXC	n/a	n/a	V3W828
JA68565-4	3W20985.D	1	02/24/11	YXC	n/a	n/a	V3W828

The QC reported here applies to the following samples:

Method: TO-15

JA68565-1, JA68565-2, JA68565-3, JA68565-4, JA68565-5, JA68565-6, JA68565-7, JA68565-8, JA68565-9, JA68565-10, JA68565-11, JA68565-12

CAS No.	Surrogate Recoveries	DUP	JA68565-4	Limits
460-00-4	4-Bromofluorobenzene	112%	108%	65-128%

(a) Outside in house control limits.

Duplicate Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA68864-8DUP	3W21018.D	1	02/25/11	YXC	n/a	n/a	V3W829
JA68864-8	3W21017.D	1	02/25/11	YXC	n/a	n/a	V3W829

The QC reported here applies to the following samples: Method: TO-15

JA68565-1, JA68565-4, JA68565-5, JA68565-6, JA68565-10, JA68565-12

CAS No.	Compound	JA68864-8 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone	5.4		5.0		8	27

CAS No.	Surrogate Recoveries	DUP	JA68864-8	Limits
460-00-4	4-Bromofluorobenzene	102%	107%	65-128%

Summa Cleaning Certification

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-SCC	W30133.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here (Summa A791) applies to the following samples:

Method: TO-15

Batch CP4558 cleaned 02/09/11: JA68565-4(A791)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.061	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.049	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.025	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.026	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.034	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.031	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.050	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.053	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.032	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.023	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.042	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.025	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.024	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.024	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.054	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.040	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.073	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.082	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.031	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.022	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.032	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.079	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.027	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.077	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-SCC	W30133.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here (Summa A791) applies to the following samples:

Method: TO-15

Batch CP4558 cleaned 02/09/11: JA68565-4(A791)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.026	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.029	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.024	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.060	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.022	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.055	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.030	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.037	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.043	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.034	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.096	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.039	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.057	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.025	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.024	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.029	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.13	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.059	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1236-SCC	W30133.D	1	02/11/11	YMH	n/a	n/a	VW1236

The QC reported here (Summa A791) applies to the following samples: Method: TO-15

Batch CP4558 cleaned 02/09/11: JA68565-4(A791)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	96% 65-128%

Summa Cleaning Certification**Job Number:** JA68565**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-SCC	2W29765.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here (Summa A398) applies to the following samples:**Method:** TO-15

Batch CP4567 cleaned 02/10/11: JA68565-1(A398), JA68565-2(A590), JA68565-3(A600), JA68565-5(A592), JA68565-6(A565), JA68565-7(A712), JA68565-8(A573), JA68565-9(A500), JA68565-10(A796), JA68565-11(A580), JA68565-12(A514)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.061	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.049	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.025	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.026	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.034	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.031	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.050	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.053	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.032	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.023	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.042	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.025	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.024	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.024	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.054	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.040	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.073	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.082	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.031	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.022	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.032	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.079	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.027	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.077	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JA68565**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-SCC	2W29765.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here (Summa A398) applies to the following samples:**Method:** TO-15

Batch CP4567 cleaned 02/10/11: JA68565-1(A398), JA68565-2(A590), JA68565-3(A600), JA68565-5(A592), JA68565-6(A565), JA68565-7(A712), JA68565-8(A573), JA68565-9(A500), JA68565-10(A796), JA68565-11(A580), JA68565-12(A514)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.026	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.029	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.024	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.060	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.022	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.055	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.030	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.037	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.043	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.034	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.096	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.027	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.039	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.040	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.057	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.025	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.024	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.029	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.13	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.059	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W1256-SCC	2W29765.D	1	02/14/11	YMH	n/a	n/a	V2W1256

The QC reported here (Summa A398) applies to the following samples: Method: TO-15

Batch CP4567 cleaned 02/10/11: JA68565-1(A398), JA68565-2(A590), JA68565-3(A600), JA68565-5(A592), JA68565-6(A565), JA68565-7(A712), JA68565-8(A573), JA68565-9(A500), JA68565-10(A796), JA68565-11(A580), JA68565-12(A514)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	84% 65-128%

Instrument Performance Check (BFB)

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1240-BFB
Lab File ID: 2W29351.D
Instrument ID: GCMS2W
Injection Date: 01/21/11
Injection Time: 08:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	6816	16.1	Pass
75	30.0 - 66.0% of mass 95	19712	46.6	Pass
95	Base peak, 100% relative abundance	42267	100.0	Pass
96	5.0 - 9.0% of mass 95	2906	6.88	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	31965	75.6	Pass
175	4.0 - 9.01% of mass 174	2344	5.55 (7.33) ^a	Pass
176	93.0 - 101.0% of mass 174	31101	73.6 (97.3) ^a	Pass
177	5.0 - 9.0% of mass 176	2064	4.88 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W1240-IC1240	2W29353.D	01/21/11	10:08	01:16	Initial cal 0.2
V2W1240-ICC1240	2W29354.D	01/21/11	10:45	01:53	Initial cal 10
V2W1240-IC1240	2W29355.D	01/21/11	11:23	02:31	Initial cal 0.5
V2W1240-IC1240	2W29356.D	01/21/11	12:03	03:11	Initial cal 20
V2W1240-IC1240	2W29357.D	01/21/11	12:41	03:49	Initial cal 5
V2W1240-IC1240	2W29358.D	01/21/11	13:19	04:27	Initial cal 0.1
V2W1240-IC1240	2W29359.D	01/21/11	13:57	05:05	Initial cal 0.04
V2W1240-IC1240	2W29360.D	01/21/11	16:13	07:21	Initial cal 10
V2W1240-IC1240	2W29361.D	01/21/11	16:51	07:59	Initial cal 5
V2W1240-IC1240	2W29362.D	01/21/11	17:33	08:41	Initial cal 40
V2W1240-IC1240	2W29363.D	01/21/11	18:13	09:21	Initial cal 0.5
V2W1240-IC1240	2W29364.D	01/21/11	18:52	10:00	Initial cal 0.2
V2W1240-ICV1240	2W29365.D	01/21/11	19:32	10:40	Initial cal verification 10
V2W1240-IC1240	2W29366.D	01/21/11	20:12	11:20	Initial cal 20
V2W1240-IC1240	2W29367.D	01/21/11	20:54	12:02	Initial cal 40
V2W1240-SCC	2W29369.D	01/21/11	22:56	14:04	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1256-BFB
Lab File ID: 2W29757.D
Instrument ID: GCMS2W

Injection Date: 02/14/11
Injection Time: 06:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	9229	17.4	Pass
75	30.0 - 66.0% of mass 95	25740	48.4	Pass
95	Base peak, 100% relative abundance	53179	100.0	Pass
96	5.0 - 9.0% of mass 95	3629	6.82	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	41789	78.6	Pass
175	4.0 - 9.01% of mass 174	3378	6.35 (8.08) ^a	Pass
176	93.0 - 101.0% of mass 174	40280	75.7 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	2655	4.99 (6.59) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W1256-CC1240	2W29758.D	02/14/11	07:33	00:38	Continuing cal 10
V2W1256-BS	2W29759.D	02/14/11	08:18	01:23	Blank Spike
V2W1256-BSD	2W29760.D	02/14/11	08:56	02:01	Blank Spike Duplicate
V2W1256-MB	2W29761.D	02/14/11	10:17	03:22	Method Blank
ZZZZZZ	2W29762.D	02/14/11	11:01	04:06	(unrelated sample)
ZZZZZZ	2W29763.D	02/14/11	11:38	04:43	(unrelated sample)
ZZZZZZ	2W29764.D	02/14/11	12:15	05:20	(unrelated sample)
V2W1256-SCC	2W29765.D	02/14/11	12:55	06:00	Summa Cleaning Certification
ZZZZZZ	2W29766.D	02/14/11	13:34	06:39	(unrelated sample)
ZZZZZZ	2W29767.D	02/14/11	14:11	07:16	(unrelated sample)
JA67951-4	2W29768.D	02/14/11	14:48	07:53	(used for QC only; not part of job JA68565)
JA67951-4DUP	2W29769.D	02/14/11	15:26	08:31	Duplicate
ZZZZZZ	2W29770.D	02/14/11	16:03	09:08	(unrelated sample)
ZZZZZZ	2W29771.D	02/14/11	16:41	09:46	(unrelated sample)
V2W1256-SCC	2W29772.D	02/14/11	17:57	11:02	Summa Cleaning Certification
ZZZZZZ	2W29773.D	02/14/11	18:37	11:42	(unrelated sample)
ZZZZZZ	2W29774.D	02/14/11	19:14	12:19	(unrelated sample)
V2W1256-SCC	2W29777.D	02/14/11	21:08	14:13	Summa Cleaning Certification
ZZZZZZ	2W29778.D	02/14/11	21:46	14:51	(unrelated sample)
ZZZZZZ	2W29779.D	02/14/11	22:23	15:28	(unrelated sample)
ZZZZZZ	2W29780.D	02/14/11	23:00	16:05	(unrelated sample)
ZZZZZZ	2W29781.D	02/14/11	23:38	16:43	(unrelated sample)
V2W1256-SCC	2W29782.D	02/15/11	00:54	17:59	Summa Cleaning Certification
ZZZZZZ	2W29783.D	02/15/11	01:31	18:36	(unrelated sample)

Instrument Performance Check (BFB)

Page 2 of 2

Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1256-BFB

Injection Date: 02/14/11

Lab File ID: 2W29757.D

Injection Time: 06:55

Instrument ID: GCMS2W

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2W29784.D	02/15/11	02:08	19:13	(unrelated sample)
ZZZZZZ	2W29785.D	02/15/11	02:45	19:50	(unrelated sample)
V2W1256-SCC	2W29786.D	02/15/11	04:02	21:07	Summa Cleaning Certification

5.5.2

5

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W821-BFB
Lab File ID: 3W20777.D
Instrument ID: GCMS3W

Injection Date: 02/15/11
Injection Time: 17:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	6895	16.7	Pass
75	30.0 - 66.0% of mass 95	18240	44.2	Pass
95	Base peak, 100% relative abundance	41264	100.0	Pass
96	5.0 - 9.0% of mass 95	2754	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	42746	103.6	Pass
175	4.0 - 9.01% of mass 174	3255	7.89 (7.61) ^a	Pass
176	93.0 - 101.0% of mass 174	42989	104.2 (100.6) ^a	Pass
177	5.0 - 9.0% of mass 176	2710	6.57 (6.30) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W821-IC821	3W20778.D	02/15/11	18:24	01:20	Initial cal 0.5
V3W821-IC821	3W20779.D	02/15/11	21:02	03:58	Initial cal 20
V3W821-IC821	3W20780.D	02/15/11	22:21	05:17	Initial cal 0.1
V3W821-IC821	3W20781.D	02/15/11	23:00	05:56	Initial cal 0.04
V3W821-IC821	3W20782.D	02/16/11	00:20	07:16	Initial cal 10
V3W821-IC821	3W20783.D	02/16/11	01:00	07:56	Initial cal 5
V3W821-IC821	3W20784.D	02/16/11	01:44	08:40	Initial cal 40
V3W821-IC821	3W20785.D	02/16/11	02:23	09:19	Initial cal 0.5
V3W821-IC821	3W20786.D	02/16/11	03:02	09:58	Initial cal 0.2
V3W821-IC821	3W20787.D	02/16/11	04:22	11:18	Initial cal 20
V3W821-IC821	3W20788.D	02/16/11	05:06	12:02	Initial cal 40
V3W821-IC821	3W20789.D	02/16/11	07:02	13:58	Initial cal 0.2
V3W821-IC821	3W20790.D	02/16/11	10:32	17:28	Initial cal 5
V3W821-ICC821	3W20791.D	02/16/11	11:55	18:51	Initial cal 10
V3W821-ICV821	3W20792.D	02/16/11	12:49	19:45	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W828-BFB
Lab File ID: 3W20971.D
Instrument ID: GCMS3W
Injection Date: 02/24/11
Injection Time: 06:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	9921	19.6	Pass
75	30.0 - 66.0% of mass 95	23568	46.7	Pass
95	Base peak, 100% relative abundance	50496	100.0	Pass
96	5.0 - 9.0% of mass 95	3695	7.32	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	48472	96.0	Pass
175	4.0 - 9.01% of mass 174	3660	7.25 (7.55) ^a	Pass
176	93.0 - 101.0% of mass 174	47037	93.1 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	3119	6.18 (6.63) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W828-CC821	3W20972.D	02/24/11	07:25	00:40	Continuing cal 10
V3W828-BS	3W20973.D	02/24/11	08:05	01:20	Blank Spike
V3W828-BSD	3W20974.D	02/24/11	08:45	02:00	Blank Spike Duplicate
V3W828-MB	3W20975.D	02/24/11	10:07	03:22	Method Blank
V3W828-SCC	3W20976.D	02/24/11	10:50	04:05	Summa Cleaning Certification
V3W828-SCC	3W20977.D	02/24/11	11:32	04:47	Summa Cleaning Certification
ZZZZZZ	3W20978.D	02/24/11	12:12	05:27	(unrelated sample)
ZZZZZZ	3W20979.D	02/24/11	12:51	06:06	(unrelated sample)
ZZZZZZ	3W20980.D	02/24/11	14:09	07:24	(unrelated sample)
ZZZZZZ	3W20981.D	02/24/11	14:50	08:05	(unrelated sample)
JA68565-3	3W20984.D	02/24/11	17:38	10:53	SV-5
JA68565-4	3W20985.D	02/24/11	18:18	11:33	SV-6
JA68565-4DUP	3W20986.D	02/24/11	18:57	12:12	Duplicate
JA68565-5	3W20987.D	02/24/11	19:36	12:51	SV-7
JA68565-6	3W20988.D	02/24/11	20:16	13:31	SV-8
JA68565-7	3W20989.D	02/24/11	20:55	14:10	SV-DUP
JA68565-8	3W20990.D	02/24/11	21:35	14:50	SV-14
JA68565-9	3W20991.D	02/24/11	22:14	15:29	SV-12
JA68565-10	3W20992.D	02/24/11	22:54	16:09	SV-9
JA68565-11	3W20993.D	02/24/11	23:33	16:48	SV-10
JA68565-12	3W20994.D	02/25/11	00:13	17:28	SV-11
ZZZZZZ	3W20995.D	02/25/11	00:53	18:08	(unrelated sample)
ZZZZZZ	3W20996.D	02/25/11	01:33	18:48	(unrelated sample)
ZZZZZZ	3W20997.D	02/25/11	02:13	19:28	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample:	V3W828-BFB	Injection Date:	02/24/11
Lab File ID:	3W20971.D	Injection Time:	06:45
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W20998.D	02/25/11	02:53	20:08	(unrelated sample)
JA68565-1	3W21000.D	02/25/11	04:54	22:09	SV-4
JA68565-2	3W21001.D	02/25/11	05:33	22:48	SV-3

5.5.4

5

Instrument Performance Check (BFB)

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W829-BFB
Lab File ID: 3W21002.D
Instrument ID: GCMS3W

Injection Date: 02/25/11
Injection Time: 06:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	10379	19.9	Pass
75	30.0 - 66.0% of mass 95	24069	46.2	Pass
95	Base peak, 100% relative abundance	52072	100.0	Pass
96	5.0 - 9.0% of mass 95	3822	7.34	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	48813	93.7	Pass
175	4.0 - 9.01% of mass 174	3841	7.38 (7.87) ^a	Pass
176	93.0 - 101.0% of mass 174	48133	92.4 (98.6) ^a	Pass
177	5.0 - 9.0% of mass 176	3356	6.44 (6.97) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W829-CC821	3W21003.D	02/25/11	06:55	00:39	Continuing cal 10
V3W829-BS	3W21004.D	02/25/11	08:54	02:38	Blank Spike
V3W829-BSD	3W21005.D	02/25/11	09:34	03:18	Blank Spike Duplicate
V3W829-MB	3W21006.D	02/25/11	10:55	04:39	Method Blank
V3W829-SCC	3W21007.D	02/25/11	11:37	05:21	Summa Cleaning Certification
V3W829-SCC	3W21008.D	02/25/11	12:20	06:04	Summa Cleaning Certification
ZZZZZZ	3W21009.D	02/25/11	13:00	06:44	(unrelated sample)
ZZZZZZ	3W21010.D	02/25/11	13:39	07:23	(unrelated sample)
JA68565-1	3W21011.D	02/25/11	14:18	08:02	SV-4
JA68565-4	3W21012.D	02/25/11	14:57	08:41	SV-6
V3W829-SCC	3W21013.D	02/25/11	15:40	09:24	Summa Cleaning Certification
JA68565-6	3W21014.D	02/25/11	16:19	10:03	SV-8
JA68565-10	3W21015.D	02/25/11	16:57	10:41	SV-9
JA68565-12	3W21016.D	02/25/11	17:37	11:21	SV-11
JA68864-8	3W21017.D	02/25/11	18:19	12:03	(used for QC only; not part of job JA68565)
JA68864-8DUP	3W21018.D	02/25/11	19:00	12:44	Duplicate
ZZZZZZ	3W21019.D	02/25/11	19:39	13:23	(unrelated sample)
ZZZZZZ	3W21020.D	02/25/11	20:19	14:03	(unrelated sample)
ZZZZZZ	3W21021.D	02/25/11	21:00	14:44	(unrelated sample)
ZZZZZZ	3W21022.D	02/25/11	21:40	15:24	(unrelated sample)
ZZZZZZ	3W21023.D	02/25/11	22:20	16:04	(unrelated sample)
ZZZZZZ	3W21024.D	02/25/11	23:38	17:22	(unrelated sample)
ZZZZZZ	3W21025.D	02/26/11	00:17	18:01	(unrelated sample)
ZZZZZZ	3W21026.D	02/26/11	00:56	18:40	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample:	V3W829-BFB	Injection Date:	02/25/11
Lab File ID:	3W21002.D	Injection Time:	06:16
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W21027.D	02/26/11	01:36	19:20	(unrelated sample)
JA68565-5	3W21028.D	02/26/11	02:15	19:59	SV-7
ZZZZZZ	3W21029.D	02/26/11	02:55	20:39	(unrelated sample)

5.5.5

5

Instrument Performance Check (BFB)

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1222-BFB
Lab File ID: W29765.D
Instrument ID: GCMSW

Injection Date: 01/19/11
Injection Time: 17:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	10988	21.5	Pass
75	30.0 - 66.0% of mass 95	29461	57.6	Pass
95	Base peak, 100% relative abundance	51162	100.0	Pass
96	5.0 - 9.0% of mass 95	3398	6.64	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	45442	88.8	Pass
175	4.0 - 9.01% of mass 174	4033	7.88 (8.88) ^a	Pass
176	93.0 - 101.0% of mass 174	44442	86.9 (97.8) ^a	Pass
177	5.0 - 9.0% of mass 176	2730	5.34 (6.14) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1222-ICC1222	W29766.D	01/19/11	17:47	00:39	Initial cal 10
VW1222-IC1222	W29770.D	01/19/11	21:46	04:38	Initial cal 20
VW1222-IC1222	W29771.D	01/19/11	22:26	05:18	Initial cal 5
VW1222-IC1222	W29774.D	01/20/11	01:46	08:38	Initial cal 40
VW1222-IC1222	W29775.D	01/20/11	06:34	13:26	Initial cal 0.5
VW1222-IC1222	W29776.D	01/20/11	07:15	14:07	Initial cal 0.2
VW1222-IC1222	W29777.D	01/20/11	11:23	18:15	Initial cal 0.1
VW1222-IC1222	W29778.D	01/20/11	12:02	18:54	Initial cal 0.04

Instrument Performance Check (BFB)

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1236-BFB
Lab File ID: W30125.D
Instrument ID: GCMSW
Injection Date: 02/11/11
Injection Time: 06:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	6206	15.1	Pass
75	30.0 - 66.0% of mass 95	18570	45.0	Pass
95	Base peak, 100% relative abundance	41224	100.0	Pass
96	5.0 - 9.0% of mass 95	2942	7.14	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	36960	89.7	Pass
175	4.0 - 9.01% of mass 174	3165	7.68 (8.56) ^a	Pass
176	93.0 - 101.0% of mass 174	35760	86.7 (96.8) ^a	Pass
177	5.0 - 9.0% of mass 176	2272	5.51 (6.35) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1236-CC1222	W30126.D	02/11/11	07:13	01:04	Continuing cal 10
VW1236-BS	W30127.D	02/11/11	09:52	03:43	Blank Spike
VW1236-BSD	W30128.D	02/11/11	10:32	04:23	Blank Spike Duplicate
VW1236-MB	W30129.D	02/11/11	11:53	05:44	Method Blank
ZZZZZZ	W30130.D	02/11/11	12:37	06:28	(unrelated sample)
ZZZZZZ	W30131.D	02/11/11	13:17	07:08	(unrelated sample)
ZZZZZZ	W30132.D	02/11/11	13:58	07:49	(unrelated sample)
VW1236-SCC	W30133.D	02/11/11	14:38	08:29	Summa Cleaning Certification
JA67911-3	W30136.D	02/11/11	16:39	10:30	(used for QC only; not part of job JA68565)
JA67911-3DUP	W30137.D	02/11/11	17:20	11:11	Duplicate
VW1236-SCC	W30138.D	02/11/11	18:00	11:51	Summa Cleaning Certification
ZZZZZZ	W30139.D	02/11/11	18:41	12:32	(unrelated sample)
ZZZZZZ	W30140.D	02/11/11	19:21	13:12	(unrelated sample)
ZZZZZZ	W30141.D	02/11/11	20:01	13:52	(unrelated sample)
VW1236-SCC	W30142.D	02/11/11	20:41	14:32	Summa Cleaning Certification
ZZZZZZ	W30143.D	02/11/11	21:21	15:12	(unrelated sample)
ZZZZZZ	W30144.D	02/11/11	22:00	15:51	(unrelated sample)
ZZZZZZ	W30145.D	02/11/11	22:40	16:31	(unrelated sample)
ZZZZZZ	W30148.D	02/12/11	01:19	19:10	(unrelated sample)
ZZZZZZ	W30149.D	02/12/11	01:58	19:49	(unrelated sample)
ZZZZZZ	W30150.D	02/12/11	02:38	20:29	(unrelated sample)
VW1236-SCC	W30152.D	02/12/11	04:36	22:27	Summa Cleaning Certification

Volatile Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Check Std: V2W1256-CC1240 **Injection Date:** 02/14/11
Lab File ID: 2W29758.D **Injection Time:** 07:33
Instrument ID: GCMS2W **Method:** TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	227535	7.30	1165548	9.15	553108	13.28
Upper Limit ^a	318549	7.63	1631767	9.48	774351	13.61
Lower Limit ^b	136521	6.97	699329	8.82	331865	12.95

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2W1256-BS	241630	7.30	1218655	9.15	567859	13.27
V2W1256-BSD	215667	7.31	1127500	9.16	532734	13.28
V2W1256-MB	225651	7.31	1114710	9.15	472276	13.27
ZZZZZZ	230046	7.30	1107618	9.15	464241	13.27
ZZZZZZ	231969	7.31	1193376	9.15	487553	13.28
ZZZZZZ	234773	7.30	1202811	9.15	491561	13.27
V2W1256-SCC	213110	7.31	978109	9.15	418851	13.28
ZZZZZZ	216098	7.31	996396	9.15	409177	13.27
ZZZZZZ	225951	7.31	1122606	9.16	493336	13.28
JA67951-4	237665	7.30	1193244	9.15	514103	13.27
JA67951-4DUP	217741	7.30	1033416	9.15	429767	13.27
ZZZZZZ	214732	7.30	1073284	9.15	456792	13.27
ZZZZZZ	262221	7.30	1258459	9.15	462771	13.27
V2W1256-SCC	210301	7.31	1036872	9.15	448034	13.27
ZZZZZZ	283341	7.29	1355714	9.15	531297	13.27
ZZZZZZ	276949	7.30	1510117	9.16	535994	13.27
V2W1256-SCC	206958	7.31	952860	9.15	408413	13.28
ZZZZZZ	244390	7.30	1208117	9.15	455288	13.27
ZZZZZZ	212877	7.31	1029354	9.15	443839	13.27
ZZZZZZ	229065	7.30	1086671	9.15	418812	13.27
ZZZZZZ	220977	7.30	1142032	9.15	508293	13.27
V2W1256-SCC	196096	7.31	888345	9.15	360388	13.27
ZZZZZZ	222107	7.31	1147716	9.15	418564	13.27
ZZZZZZ	207762	7.31	1005731	9.15	386475	13.27
ZZZZZZ	204764	7.31	1046371	9.15	382894	13.27
V2W1256-SCC	192546	7.31	883027	9.15	376221	13.27

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Check Std: V3W828-CC821
Lab File ID: 3W20972.D
Instrument ID: GCMS3W
Injection Date: 02/24/11
Injection Time: 07:25
Method: TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	166107	7.57	823784	9.20	387717	13.37
Upper Limit ^a	232550	7.90	1153298	9.53	542804	13.70
Lower Limit ^b	99664	7.24	494270	8.87	232630	13.04

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V3W828-BS	167905	7.57	833282	9.20	407825	13.37
V3W828-BSD	171352	7.56	855433	9.20	409072	13.37
V3W828-MB	171151	7.57	838462	9.20	276863	13.37
V3W828-SCC	167191	7.56	817805	9.19	288674	13.37
V3W828-SCC	178063	7.57	874953	9.20	286751	13.37
ZZZZZZ	173539	7.57	841072	9.20	383557	13.37
ZZZZZZ	165299	7.56	799536	9.20	342632	13.37
ZZZZZZ	150503	7.57	700734	9.20	321081	13.37
ZZZZZZ	158945	7.56	744452	9.20	342385	13.37
JA68565-3	154395	7.57	748240	9.20	345836	13.37
JA68565-4	141868	7.56	690768	9.20	316404	13.37
JA68565-4DUP	151964	7.56	737257	9.20	344917	13.37
JA68565-5	151771	7.57	721159	9.20	353742	13.38
JA68565-6	142482	7.57	689845	9.20	325420	13.37
JA68565-7	171701	7.57	830112	9.20	378251	13.37
JA68565-8	161395	7.57	793624	9.20	364139	13.37
JA68565-9	148472	7.57	707691	9.21	339708	13.38
JA68565-10	149015	7.56	724097	9.20	334923	13.37
JA68565-11	138939	7.56	668546	9.20	312370	13.37
JA68565-12	134224	7.56	646783	9.20	309724	13.37
ZZZZZZ	158458	7.57	768464	9.20	349685	13.37
ZZZZZZ	138730	7.56	673042	9.20	312369	13.37
ZZZZZZ	143962	7.60	697940	9.22	311998	13.38
ZZZZZZ	142123	7.57	702915	9.22	323443	13.38
JA68565-1	128924	7.57	617662	9.20	291328	13.37
JA68565-2	139906	7.57	676966	9.20	311636	13.37

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Check Std: V3W829-CC821
Lab File ID: 3W21003.D
Instrument ID: GCMS3W
Injection Date: 02/25/11
Injection Time: 06:55
Method: TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	150126	7.57	723218	9.21	358768	13.38
Upper Limit ^a	210176	7.90	1012505	9.54	502275	13.71
Lower Limit ^b	90076	7.24	433931	8.88	215261	13.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V3W829-BS	166460	7.57	827514	9.21	402315	13.38
V3W829-BSD	174989	7.57	889273	9.21	424973	13.38
V3W829-MB	190104	7.56	931225	9.20	379250	13.37
V3W829-SCC	198150	7.56	964978	9.20	361668	13.37
V3W829-SCC	153598	7.57	761251	9.20	255918	13.37
ZZZZZZ	168487	7.57	819723	9.20	371851	13.37
ZZZZZZ	192339	7.56	923618	9.20	428602	13.37
JA68565-1	165713	7.57	795827	9.20	362134	13.38
JA68565-4	163429	7.56	794327	9.20	371341	13.37
V3W829-SCC	150831	7.56	722354	9.20	302066	13.37
JA68565-6	160849	7.57	771610	9.20	365311	13.38
JA68565-10	194832	7.57	928006	9.20	428446	13.38
JA68565-12	137470	7.57	664116	9.20	306471	13.37
JA68864-8	128538	7.57	606804	9.20	282055	13.37
JA68864-8DUP	138124	7.57	663274	9.21	302375	13.37
ZZZZZZ	138232	7.57	658375	9.20	289328	13.37
ZZZZZZ	137600	7.57	572605	9.21	278432	13.38
ZZZZZZ	145314	7.57	693168	9.20	308227	13.37
ZZZZZZ	138372	7.61	671294	9.23	299877	13.38
ZZZZZZ	139973	7.57	692779	9.21	314333	13.38
ZZZZZZ	135037	7.59	672556	9.22	310006	13.39
ZZZZZZ	131277	7.57	622911	9.20	286916	13.37
ZZZZZZ	130124	7.57	607757	9.20	278671	13.37
ZZZZZZ	136104	7.57	650607	9.20	289336	13.37
JA68565-5	132739	7.57	634584	9.20	305557	13.37
ZZZZZZ	127738	7.56	626328	9.20	229000	13.37

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Check Std: VW1236-CC1222 **Injection Date:** 02/11/11
Lab File ID: W30126.D **Injection Time:** 07:13
Instrument ID: GCMSW **Method:** TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	95315	8.75	437021	10.46	239233	14.70
Upper Limit ^a	133441	9.08	611829	10.79	334926	15.03
Lower Limit ^b	57189	8.42	262213	10.13	143540	14.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1236-BS	114937	8.77	537952	10.46	277727	14.71
VW1236-BSD	110772	8.77	523327	10.46	277627	14.71
VW1236-MB	103829	8.77	470203	10.46	200738	14.70
ZZZZZZ	98096	8.82	477374	10.49	225613	14.71
ZZZZZZ	93324	8.76	439869	10.45	209754	14.70
ZZZZZZ	84583	8.81	402011	10.48	192046	14.70
VW1236-SCC	112877	8.74	520755	10.44	253129	14.69
JA67911-3	98990	8.77	475158	10.46	240065	14.70
JA67911-3DUP	100461	8.74	474495	10.44	243630	14.69
VW1236-SCC	81494	8.74	339718	10.43	154954	14.69
ZZZZZZ	92841	8.75	424765	10.44	209905	14.69
ZZZZZZ	79881	8.77	360204	10.46	178785	14.70
ZZZZZZ	91661	8.74	428110	10.44	212010	14.69
VW1236-SCC	76315	8.74	333658	10.44	159957	14.69
ZZZZZZ	83918	8.75	387826	10.45	189552	14.70
ZZZZZZ	93196	8.77	449343	10.46	241520	14.70
ZZZZZZ	122574	8.74	556304	10.44	280876	14.69
ZZZZZZ	126912	8.77	571147	10.46	256729	14.70
ZZZZZZ	122404	8.77	563187	10.46	258159	14.70
ZZZZZZ	111933	8.74	517410	10.44	238453	14.69
VW1236-SCC	100844	8.74	443977	10.43	202011	14.69

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15	Reporting this level
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15	
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15	
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15	
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15	
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15	
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15	
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15	
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15	
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15	
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15	
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15	
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15	
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.26	7.32	0.719	ok 0.689	0.629-0.749
1,3-Butadiene	4.17	7.32	0.570	ok 0.569	0.509-0.629
Benzene	8.82	9.17	0.962	ok 0.961	0.901-1.021
Bromodichloromethane	9.78	9.17	1.067	ok 1.067	1.007-1.127
Bromoform	13.92	13.29	1.047	ok 1.048	0.988-1.108
Bromomethane	4.33	7.32	0.592	ok 0.592	0.532-0.652
Bromoethene	4.65	7.32	0.635	ok 0.636	0.576-0.696
n-Butane	4.19	7.32	0.572	ok 0.573	0.513-0.633
Benzyl Chloride	16.23	13.29	1.221	ok 1.220	1.160-1.280
n-Butylbenzene	17.27	13.29	1.299	ok 1.279	1.219-1.339
sec-Butylbenzene	16.36	13.29	1.231	ok 1.231	1.171-1.291
tert-Butylbenzene	16.08	13.29	1.210	ok 1.210	1.150-1.270
Carbon disulfide	5.70	7.32	0.779	ok 0.779	0.719-0.839
Chlorobenzene	13.32	13.29	1.002	ok 1.003	0.943-1.063
Chlorodifluoromethane	3.77	7.32	0.515	ok 0.514	0.454-0.574
Chloroethane	4.44	7.32	0.607	ok 0.606	0.546-0.666
Chloroform	7.43	7.32	1.015	ok 1.016	0.956-1.076
Chloromethane	3.94	7.32	0.538	ok 0.539	0.479-0.599
3-Chloropropene	5.55	7.32	0.758	ok 0.758	0.698-0.818
2-Chlorotoluene	15.40	13.29	1.159	ok 1.159	1.099-1.219
Carbon tetrachloride	8.95	7.32	1.223	ok 1.224	1.164-1.284
Cyclohexane	9.07	9.17	0.989	ok 0.989	0.929-1.049
1,1-Dichloroethane	6.40	7.32	0.874	ok 0.875	0.815-0.935
1,1-Dichloroethylene	6.25	7.32	0.854	ok 0.852	0.792-0.912
1,2-Dibromoethane	12.23	13.29	0.920	ok 0.920	0.860-0.980
1,2-Dichloroethane	8.14	7.32	1.112	ok 1.112	1.052-1.172
1,2-Dichloropropane	9.61	9.17	1.048	ok 1.047	0.987-1.107
1,4-Dioxane	11.03	9.17	1.203	ng 1.119	1.059-1.179
Dichlorodifluoromethane	3.84	7.32	0.525	ok 0.524	0.464-0.584
Dibromochloromethane	11.99	13.29	0.902	ok 0.902	0.842-0.962
trans-1,2-Dichloroethylene	6.25	7.32	0.854	ok 0.852	0.792-0.912
cis-1,2-Dichloroethylene	7.17	7.32	0.980	ok 0.979	0.919-1.039
cis-1,3-Dichloropropene	10.68	9.17	1.165	ok 1.163	1.103-1.223
m-Dichlorobenzene	16.23	13.29	1.221	ok 1.221	1.161-1.281

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15	Reporting this level
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15	
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15	
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15	
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15	
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15	
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15	
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15	
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15	
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15	
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15	
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15	
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15	
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.64	13.29	1.252	ok 1.252	1.192-1.312
p-Dichlorobenzene	16.30	13.29	1.226	ok 1.226	1.166-1.286
trans-1,3-Dichloropropene	11.19	9.17	1.220	ok 1.219	1.159-1.279
2,3-Dimethylpentane	9.32	9.17	1.016	ok 1.016	0.956-1.076
2,4-Dimethylpentane	8.21	7.32	1.122	ok 1.122	1.062-1.182
Ethanol	4.75	7.32	0.649	ok 0.636	0.576-0.696
Ethylbenzene	13.71	13.29	1.032	ok 1.032	0.972-1.092
Ethyl Acetate	7.86	7.32	1.074	ok 1.036	0.976-1.096
4-Ethyltoluene	15.60	13.29	1.174	ok 1.174	1.114-1.234
Freon 113	5.66	7.32	0.773	ok 0.773	0.713-0.833
Freon 114	4.00	7.32	0.546	ok 0.547	0.487-0.607
Freon 123	4.73	7.32	0.646	ok 0.647	0.587-0.707
Freon 123A	4.77	7.32	0.652	ok 0.652	0.592-0.712
Freon 152A	3.74	7.32	0.511	ok 0.511	0.451-0.571
Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166
Hexachlorobutadiene	18.79	13.29	1.414	ok 1.412	1.352-1.472
Hexane	7.37	7.32	1.007	ok 1.007	0.947-1.067
2-Hexanone	12.29	13.29	0.925	ok 0.905	0.845-0.965
Iodomethane	5.31	7.32	0.725	ok 0.726	0.666-0.786
Isopropylbenzene	14.93	13.29	1.123	ok 1.123	1.063-1.183
Isopropyl Alcohol	5.36	7.32	0.732	ok 0.709	0.649-0.769
p-Isopropyltoluene	16.53	13.29	1.244	ok 1.243	1.183-1.303
Methylene chloride	5.45	7.32	0.745	ok 0.744	0.684-0.804
Methyl ethyl ketone	7.61	7.32	1.040	ng 0.969	0.909-1.029
Methyl Isobutyl Ketone	11.03	9.17	1.203	ok 1.181	1.121-1.241
Methyl Tert Butyl Ether	6.81	7.32	0.930	ok 0.906	0.846-0.966
Methylmethacrylate	10.25	9.17	1.118	ok 1.104	1.044-1.164
Nonane	14.59	13.29	1.098	ok 1.098	1.038-1.158
Octane	12.58	13.29	0.947	ok 0.947	0.887-1.007
Pentane	5.16	7.32	0.705	ok 0.704	0.644-0.764
n-Propylbenzene	15.46	13.29	1.163	ok 1.163	1.103-1.223
Propylene	3.80	7.32	0.519	ok 0.518	0.458-0.578
Styrene	14.23	13.29	1.071	ok 1.071	1.011-1.131
1,1,1-Trichloroethane	8.37	7.32	1.143	ok 1.144	1.084-1.204

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15	Reporting this level
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15	
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15	
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15	
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15	
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15	
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15	
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15	
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15	
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15	
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15	
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15	
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15	
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	13.31	13.29	1.002	ok 1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.32	13.29	1.078	ok 1.078	1.018-1.138
1,1,2-Trichloroethane	11.34	9.17	1.237	ok 1.236	1.176-1.296
1,2,4-Trichlorobenzene	18.61	13.29	1.400	ok 1.384	1.324-1.444
1,2,4-Trimethylbenzene	16.09	13.29	1.211	ok 1.211	1.151-1.271
1,3,5-Trimethylbenzene	15.68	13.29	1.180	ok 1.180	1.120-1.240
2,2,4-Trimethylpentane	9.88	9.17	1.077	ok 1.077	1.017-1.137
Tertiary Butyl Alcohol	5.84	7.32	0.798	ok 0.774	0.714-0.834
Tetrachloroethylene	12.68	13.29	0.954	ok 0.954	0.894-1.014
Tetrahydrofuran	8.64	7.32	1.180	ng 1.114	1.054-1.174
Toluene	11.61	9.17	1.266	ok 1.265	1.205-1.325
Trichloroethylene	9.82	9.17	1.071	ok 1.071	1.011-1.131
Trichlorofluoromethane	4.92	7.32	0.672	ok 0.672	0.612-0.732
Vinyl chloride	4.08	7.32	0.557	ok 0.557	0.497-0.617
Vinyl Acetate	6.73	7.32	0.919	ok 0.904	0.844-0.964
m,p-Xylene	13.89	13.29	1.045	ok 1.045	0.985-1.105
o-Xylene	14.33	13.29	1.078	ok 1.079	1.019-1.139
TVHC As Equiv Pentane	5.15	7.32	0.704	ok 0.704	0.644-0.764
TVHC As Equiv Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.32 ok	7.32	6.99-7.65	122688	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	653411	ok 683713	410228-957198
Chlorobenzene-D5	13.29 ok	13.29	12.96-13.62	277492	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	4.90	7.31	0.670 ok	0.689	0.629-0.749
1,3-Butadiene	4.16	7.31	0.569 ok	0.569	0.509-0.629
Benzene	8.81	9.17	0.961 ok	0.961	0.901-1.021
Bromodichloromethane	9.78	9.17	1.067 ok	1.067	1.007-1.127
Bromoform	13.92	13.28	1.048 ok	1.048	0.988-1.108
Bromomethane	4.33	7.31	0.592 ok	0.592	0.532-0.652
Bromoethene	4.65	7.31	0.636 ok	0.636	0.576-0.696
n-Butane	4.19	7.31	0.573 ok	0.573	0.513-0.633
Benzyl Chloride	16.20	13.28	1.220 ok	1.220	1.160-1.280
n-Butylbenzene	16.93	13.28	1.275 ok	1.279	1.219-1.339
sec-Butylbenzene	16.35	13.28	1.231 ok	1.231	1.171-1.291
tert-Butylbenzene	16.07	13.28	1.210 ok	1.210	1.150-1.270
Carbon disulfide	5.69	7.31	0.778 ok	0.779	0.719-0.839
Chlorobenzene	13.32	13.28	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.76	7.31	0.514 ok	0.514	0.454-0.574
Chloroethane	4.43	7.31	0.606 ok	0.606	0.546-0.666
Chloroform	7.43	7.31	1.016 ok	1.016	0.956-1.076
Chloromethane	3.94	7.31	0.539 ok	0.539	0.479-0.599
3-Chloropropene	5.54	7.31	0.758 ok	0.758	0.698-0.818
2-Chlorotoluene	15.39	13.28	1.159 ok	1.159	1.099-1.219
Carbon tetrachloride	8.95	7.31	1.224 ok	1.224	1.164-1.284
Cyclohexane	9.07	9.17	0.989 ok	0.989	0.929-1.049
1,1-Dichloroethane	6.40	7.31	0.876 ok	0.875	0.815-0.935
1,1-Dichloroethylene	6.22	7.31	0.851 ok	0.852	0.792-0.912
1,2-Dibromoethane	12.21	13.28	0.919 ok	0.920	0.860-0.980
1,2-Dichloroethane	8.13	7.31	1.112 ok	1.112	1.052-1.172
1,2-Dichloropropane	9.59	9.17	1.046 ok	1.047	0.987-1.107
1,4-Dioxane	9.96	9.17	1.086 ok	1.119	1.059-1.179
Dichlorodifluoromethane	3.83	7.31	0.524 ok	0.524	0.464-0.584
Dibromochloromethane	11.98	13.28	0.902 ok	0.902	0.842-0.962
trans-1,2-Dichloroethylene	6.22	7.31	0.851 ok	0.852	0.792-0.912
cis-1,2-Dichloroethylene	7.16	7.31	0.979 ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.66	9.17	1.162 ok	1.163	1.103-1.223
m-Dichlorobenzene	16.21	13.28	1.221 ok	1.221	1.161-1.281

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.62	13.28	1.252	ok 1.252	1.192-1.312
p-Dichlorobenzene	16.28	13.28	1.226	ok 1.226	1.166-1.286
trans-1,3-Dichloropropene	11.17	9.17	1.218	ok 1.219	1.159-1.279
2,3-Dimethylpentane	9.32	9.17	1.016	ok 1.016	0.956-1.076
2,4-Dimethylpentane	8.21	7.31	1.123	ok 1.122	1.062-1.182
Ethanol	4.61	7.31	0.631	ok 0.636	0.576-0.696
Ethylbenzene	13.70	13.28	1.032	ok 1.032	0.972-1.092
Ethyl Acetate	7.46	7.31	1.021	ok 1.036	0.976-1.096
4-Ethyltoluene	15.59	13.28	1.174	ok 1.174	1.114-1.234
Freon 113	5.65	7.31	0.773	ok 0.773	0.713-0.833
Freon 114	4.00	7.31	0.547	ok 0.547	0.487-0.607
Freon 123	4.73	7.31	0.647	ok 0.647	0.587-0.707
Freon 123A	4.76	7.31	0.651	ok 0.652	0.592-0.712
Freon 152A	3.74	7.31	0.512	ok 0.511	0.451-0.571
Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166
Hexachlorobutadiene	18.74	13.28	1.411	ok 1.412	1.352-1.472
Hexane	7.37	7.31	1.008	ok 1.007	0.947-1.067
2-Hexanone	11.92	13.28	0.898	ok 0.905	0.845-0.965
Iodomethane	5.31	7.31	0.726	ok 0.726	0.666-0.786
Isopropylbenzene	14.92	13.28	1.123	ok 1.123	1.063-1.183
Isopropyl Alcohol	5.05	7.31	0.691	ok 0.709	0.649-0.769
p-Isopropyltoluene	16.51	13.28	1.243	ok 1.243	1.183-1.303
Methylene chloride	5.44	7.31	0.744	ok 0.744	0.684-0.804
Methyl ethyl ketone	6.89	7.31	0.943	ok 0.969	0.909-1.029
Methyl Isobutyl Ketone	10.75	9.17	1.172	ok 1.181	1.121-1.241
Methyl Tert Butyl Ether	6.50	7.31	0.889	ok 0.906	0.846-0.966
Methylmethacrylate	10.07	9.17	1.098	ok 1.104	1.044-1.164
Nonane	14.58	13.28	1.098	ok 1.098	1.038-1.158
Octane	12.58	13.28	0.947	ok 0.947	0.887-1.007
Pentane	5.15	7.31	0.705	ok 0.704	0.644-0.764
n-Propylbenzene	15.44	13.28	1.163	ok 1.163	1.103-1.223
Propylene	3.78	7.31	0.517	ok 0.518	0.458-0.578
Styrene	14.22	13.28	1.071	ok 1.071	1.011-1.131
1,1,1-Trichloroethane	8.37	7.31	1.145	ok 1.144	1.084-1.204

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	13.31	13.28	1.002	ok 1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.31	13.28	1.078	ok 1.078	1.018-1.138
1,1,2-Trichloroethane	11.32	9.17	1.234	ok 1.236	1.176-1.296
1,2,4-Trichlorobenzene	18.30	13.28	1.378	ok 1.384	1.324-1.444
1,2,4-Trimethylbenzene	16.08	13.28	1.211	ok 1.211	1.151-1.271
1,3,5-Trimethylbenzene	15.67	13.28	1.180	ok 1.180	1.120-1.240
2,2,4-Trimethylpentane	9.88	9.17	1.077	ok 1.077	1.017-1.137
Tertiary Butyl Alcohol	5.45	7.31	0.746	ok 0.774	0.714-0.834
Tetrachloroethylene	12.67	13.28	0.954	ok 0.954	0.894-1.014
Tetrahydrofuran	7.96	7.31	1.089	ok 1.114	1.054-1.174
Toluene	11.60	9.17	1.265	ok 1.265	1.205-1.325
Trichloroethylene	9.82	9.17	1.071	ok 1.071	1.011-1.131
Trichlorofluoromethane	4.92	7.31	0.673	ok 0.672	0.612-0.732
Vinyl chloride	4.07	7.31	0.557	ok 0.557	0.497-0.617
Vinyl Acetate	6.57	7.31	0.899	ok 0.904	0.844-0.964
m,p-Xylene	13.88	13.28	1.045	ok 1.045	0.985-1.105
o-Xylene	14.32	13.28	1.078	ok 1.079	1.019-1.139
TVHC As Equiv Pentane	5.15	7.31	0.705	ok 0.704	0.644-0.764
TVHC As Equiv Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.31 ok	7.32	6.99-7.65	155412	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	809661	ok 683713	410228-957198
Chlorobenzene-D5	13.28 ok	13.29	12.96-13.62	379609	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.19	7.31	0.710	ok 0.689	0.629-0.749
1,3-Butadiene	4.17	7.31	0.570	ok 0.569	0.509-0.629
Benzene	8.81	9.17	0.961	ok 0.961	0.901-1.021
Bromodichloromethane	9.78	9.17	1.067	ok 1.067	1.007-1.127
Bromoform	13.92	13.28	1.048	ok 1.048	0.988-1.108
Bromomethane	4.33	7.31	0.592	ok 0.592	0.532-0.652
Bromoethene	4.65	7.31	0.636	ok 0.636	0.576-0.696
n-Butane	4.19	7.31	0.573	ok 0.573	0.513-0.633
Benzyl Chloride	16.22	13.28	1.221	ok 1.220	1.160-1.280
n-Butylbenzene	16.99	13.28	1.279	ok 1.279	1.219-1.339
sec-Butylbenzene	16.35	13.28	1.231	ok 1.231	1.171-1.291
tert-Butylbenzene	16.07	13.28	1.210	ok 1.210	1.150-1.270
Carbon disulfide	5.70	7.31	0.780	ok 0.779	0.719-0.839
Chlorobenzene	13.33	13.28	1.004	ok 1.003	0.943-1.063
Chlorodifluoromethane	3.77	7.31	0.516	ok 0.514	0.454-0.574
Chloroethane	4.44	7.31	0.607	ok 0.606	0.546-0.666
Chloroform	7.43	7.31	1.016	ok 1.016	0.956-1.076
Chloromethane	3.94	7.31	0.539	ok 0.539	0.479-0.599
3-Chloropropene	5.55	7.31	0.759	ok 0.758	0.698-0.818
2-Chlorotoluene	15.40	13.28	1.160	ok 1.159	1.099-1.219
Carbon tetrachloride	8.95	7.31	1.224	ok 1.224	1.164-1.284
Cyclohexane	9.07	9.17	0.989	ok 0.989	0.929-1.049
1,1-Dichloroethane	6.40	7.31	0.876	ok 0.875	0.815-0.935
1,1-Dichloroethylene	6.23	7.31	0.852	ok 0.852	0.792-0.912
1,2-Dibromoethane	12.23	13.28	0.921	ok 0.920	0.860-0.980
1,2-Dichloroethane	8.14	7.31	1.114	ok 1.112	1.052-1.172
1,2-Dichloropropane	9.61	9.17	1.048	ok 1.047	0.987-1.107
1,4-Dioxane	10.73	9.17	1.170	ok 1.119	1.059-1.179
Dichlorodifluoromethane	3.83	7.31	0.524	ok 0.524	0.464-0.584
Dibromochloromethane	11.98	13.28	0.902	ok 0.902	0.842-0.962
trans-1,2-Dichloroethylene	6.23	7.31	0.852	ok 0.852	0.792-0.912
cis-1,2-Dichloroethylene	7.17	7.31	0.981	ok 0.979	0.919-1.039
cis-1,3-Dichloropropene	10.67	9.17	1.164	ok 1.163	1.103-1.223
m-Dichlorobenzene	16.22	13.28	1.221	ok 1.221	1.161-1.281

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.63	13.28	1.252	ok 1.252	1.192-1.312
p-Dichlorobenzene	16.29	13.28	1.227	ok 1.226	1.166-1.286
trans-1,3-Dichloropropene	11.18	9.17	1.219	ok 1.219	1.159-1.279
2,3-Dimethylpentane	9.32	9.17	1.016	ok 1.016	0.956-1.076
2,4-Dimethylpentane	8.21	7.31	1.123	ok 1.122	1.062-1.182
Ethanol	4.74	7.31	0.648	ok 0.636	0.576-0.696
Ethylbenzene	13.70	13.28	1.032	ok 1.032	0.972-1.092
Ethyl Acetate	7.78	7.31	1.064	ok 1.036	0.976-1.096
4-Ethyltoluene	15.60	13.28	1.175	ok 1.174	1.114-1.234
Freon 113	5.65	7.31	0.773	ok 0.773	0.713-0.833
Freon 114	4.00	7.31	0.547	ok 0.547	0.487-0.607
Freon 123	4.73	7.31	0.647	ok 0.647	0.587-0.707
Freon 123A	4.77	7.31	0.653	ok 0.652	0.592-0.712
Freon 152A	3.74	7.31	0.512	ok 0.511	0.451-0.571
Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166
Hexachlorobutadiene	18.77	13.28	1.413	ok 1.412	1.352-1.472
Hexane	7.37	7.31	1.008	ok 1.007	0.947-1.067
2-Hexanone	12.17	13.28	0.916	ok 0.905	0.845-0.965
Iodomethane	5.31	7.31	0.726	ok 0.726	0.666-0.786
Isopropylbenzene	14.92	13.28	1.123	ok 1.123	1.063-1.183
Isopropyl Alcohol	5.33	7.31	0.729	ok 0.709	0.649-0.769
p-Isopropyltoluene	16.52	13.28	1.244	ok 1.243	1.183-1.303
Methylene chloride	5.45	7.31	0.746	ok 0.744	0.684-0.804
Methyl ethyl ketone	7.42	7.31	1.015	ok 0.969	0.909-1.029
Methyl Isobutyl Ketone	10.95	9.17	1.194	ok 1.181	1.121-1.241
Methyl Tert Butyl Ether	6.72	7.31	0.919	ok 0.906	0.846-0.966
Methylmethacrylate	10.21	9.17	1.113	ok 1.104	1.044-1.164
Nonane	14.59	13.28	1.099	ok 1.098	1.038-1.158
Octane	12.58	13.28	0.947	ok 0.947	0.887-1.007
Pentane	5.15	7.31	0.705	ok 0.704	0.644-0.764
n-Propylbenzene	15.45	13.28	1.163	ok 1.163	1.103-1.223
Propylene	3.80	7.31	0.520	ok 0.518	0.458-0.578
Styrene	14.23	13.28	1.072	ok 1.071	1.011-1.131
1,1,1-Trichloroethane	8.37	7.31	1.145	ok 1.144	1.084-1.204

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	13.31	13.28	1.002	ok 1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.32	13.28	1.078	ok 1.078	1.018-1.138
1,1,2-Trichloroethane	11.33	9.17	1.236	ok 1.236	1.176-1.296
1,2,4-Trichlorobenzene	18.51	13.28	1.394	ok 1.384	1.324-1.444
1,2,4-Trimethylbenzene	16.08	13.28	1.211	ok 1.211	1.151-1.271
1,3,5-Trimethylbenzene	15.68	13.28	1.181	ok 1.180	1.120-1.240
2,2,4-Trimethylpentane	9.88	9.17	1.077	ok 1.077	1.017-1.137
Tertiary Butyl Alcohol	5.73	7.31	0.784	ok 0.774	0.714-0.834
Tetrachloroethylene	12.68	13.28	0.955	ok 0.954	0.894-1.014
Tetrahydrofuran	8.50	7.31	1.163	ok 1.114	1.054-1.174
Toluene	11.60	9.17	1.265	ok 1.265	1.205-1.325
Trichloroethylene	9.82	9.17	1.071	ok 1.071	1.011-1.131
Trichlorofluoromethane	4.92	7.31	0.673	ok 0.672	0.612-0.732
Vinyl chloride	4.08	7.31	0.558	ok 0.557	0.497-0.617
Vinyl Acetate	6.68	7.31	0.914	ok 0.904	0.844-0.964
m,p-Xylene	13.88	13.28	1.045	ok 1.045	0.985-1.105
o-Xylene	14.33	13.28	1.079	ok 1.079	1.019-1.139
TVHC As Equiv Pentane	5.15	7.31	0.705	ok 0.704	0.644-0.764
TVHC As Equiv Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.31 ok	7.32	6.99-7.65	128335	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	679964	ok 683713	410228-957198
Chlorobenzene-D5	13.28 ok	13.29	12.96-13.62	285777	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	4.86	7.31	0.665 ok	0.689	0.629-0.749
1,3-Butadiene	4.16	7.31	0.569 ok	0.569	0.509-0.629
Benzene	8.81	9.17	0.961 ok	0.961	0.901-1.021
Bromodichloromethane	9.78	9.17	1.067 ok	1.067	1.007-1.127
Bromoform	13.92	13.29	1.047 ok	1.048	0.988-1.108
Bromomethane	4.33	7.31	0.592 ok	0.592	0.532-0.652
Bromoethene	4.65	7.31	0.636 ok	0.636	0.576-0.696
n-Butane	4.19	7.31	0.573 ok	0.573	0.513-0.633
Benzyl Chloride	16.20	13.29	1.219 ok	1.220	1.160-1.280
n-Butylbenzene	16.93	13.29	1.274 ok	1.279	1.219-1.339
sec-Butylbenzene	16.35	13.29	1.230 ok	1.231	1.171-1.291
tert-Butylbenzene	16.07	13.29	1.209 ok	1.210	1.150-1.270
Carbon disulfide	5.69	7.31	0.778 ok	0.779	0.719-0.839
Chlorobenzene	13.33	13.29	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.76	7.31	0.514 ok	0.514	0.454-0.574
Chloroethane	4.43	7.31	0.606 ok	0.606	0.546-0.666
Chloroform	7.43	7.31	1.016 ok	1.016	0.956-1.076
Chloromethane	3.94	7.31	0.539 ok	0.539	0.479-0.599
3-Chloropropene	5.53	7.31	0.756 ok	0.758	0.698-0.818
2-Chlorotoluene	15.39	13.29	1.158 ok	1.159	1.099-1.219
Carbon tetrachloride	8.95	7.31	1.224 ok	1.224	1.164-1.284
Cyclohexane	9.07	9.17	0.989 ok	0.989	0.929-1.049
1,1-Dichloroethane	6.40	7.31	0.876 ok	0.875	0.815-0.935
1,1-Dichloroethylene	6.22	7.31	0.851 ok	0.852	0.792-0.912
1,2-Dibromoethane	12.21	13.29	0.919 ok	0.920	0.860-0.980
1,2-Dichloroethane	8.13	7.31	1.112 ok	1.112	1.052-1.172
1,2-Dichloropropane	9.60	9.17	1.047 ok	1.047	0.987-1.107
1,4-Dioxane	9.89	9.17	1.079 ok	1.119	1.059-1.179
Dichlorodifluoromethane	3.83	7.31	0.524 ok	0.524	0.464-0.584
Dibromochloromethane	11.98	13.29	0.901 ok	0.902	0.842-0.962
trans-1,2-Dichloroethylene	6.22	7.31	0.851 ok	0.852	0.792-0.912
cis-1,2-Dichloroethylene	7.16	7.31	0.979 ok	0.979	0.919-1.039
cis-1,3-Dichloropropene	10.66	9.17	1.162 ok	1.163	1.103-1.223
m-Dichlorobenzene	16.21	13.29	1.220 ok	1.221	1.161-1.281

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.62	13.29	1.251 ok	1.252	1.192-1.312
p-Dichlorobenzene	16.28	13.29	1.225 ok	1.226	1.166-1.286
trans-1,3-Dichloropropene	11.17	9.17	1.218 ok	1.219	1.159-1.279
2,3-Dimethylpentane	9.32	9.17	1.016 ok	1.016	0.956-1.076
2,4-Dimethylpentane	8.21	7.31	1.123 ok	1.122	1.062-1.182
Ethanol	4.58	7.31	0.627 ok	0.636	0.576-0.696
Ethylbenzene	13.70	13.29	1.031 ok	1.032	0.972-1.092
Ethyl Acetate	7.42	7.31	1.015 ok	1.036	0.976-1.096
4-Ethyltoluene	15.59	13.29	1.173 ok	1.174	1.114-1.234
Freon 113	5.65	7.31	0.773 ok	0.773	0.713-0.833
Freon 114	4.00	7.31	0.547 ok	0.547	0.487-0.607
Freon 123	4.73	7.31	0.647 ok	0.647	0.587-0.707
Freon 123A	4.76	7.31	0.651 ok	0.652	0.592-0.712
Freon 152A	3.74	7.31	0.512 ok	0.511	0.451-0.571
Heptane	10.14	9.17	1.106 ok	1.106	1.046-1.166
Hexachlorobutadiene	18.74	13.29	1.410 ok	1.412	1.352-1.472
Hexane	7.37	7.31	1.008 ok	1.007	0.947-1.067
2-Hexanone	11.90	13.29	0.895 ok	0.905	0.845-0.965
Iodomethane	5.31	7.31	0.726 ok	0.726	0.666-0.786
Isopropylbenzene	14.92	13.29	1.123 ok	1.123	1.063-1.183
Isopropyl Alcohol	5.01	7.31	0.685 ok	0.709	0.649-0.769
p-Isopropyltoluene	16.51	13.29	1.242 ok	1.243	1.183-1.303
Methylene chloride	5.44	7.31	0.744 ok	0.744	0.684-0.804
Methyl ethyl ketone	6.83	7.31	0.934 ok	0.969	0.909-1.029
Methyl Isobutyl Ketone	10.73	9.17	1.170 ok	1.181	1.121-1.241
Methyl Tert Butyl Ether	6.48	7.31	0.886 ok	0.906	0.846-0.966
Methylmethacrylate	10.07	9.17	1.098 ok	1.104	1.044-1.164
Nonane	14.58	13.29	1.097 ok	1.098	1.038-1.158
Octane	12.58	13.29	0.947 ok	0.947	0.887-1.007
Pentane	5.15	7.31	0.705 ok	0.704	0.644-0.764
n-Propylbenzene	15.44	13.29	1.162 ok	1.163	1.103-1.223
Propylene	3.78	7.31	0.517 ok	0.518	0.458-0.578
Styrene	14.23	13.29	1.071 ok	1.071	1.011-1.131
1,1,1-Trichloroethane	8.37	7.31	1.145 ok	1.144	1.084-1.204

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	13.31	13.29	1.002	ok 1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.32	13.29	1.078	ok 1.078	1.018-1.138
1,1,2-Trichloroethane	11.32	9.17	1.234	ok 1.236	1.176-1.296
1,2,4-Trichlorobenzene	18.30	13.29	1.377	ok 1.384	1.324-1.444
1,2,4-Trimethylbenzene	16.08	13.29	1.210	ok 1.211	1.151-1.271
1,3,5-Trimethylbenzene	15.67	13.29	1.179	ok 1.180	1.120-1.240
2,2,4-Trimethylpentane	9.88	9.17	1.077	ok 1.077	1.017-1.137
Tertiary Butyl Alcohol	5.42	7.31	0.741	ok 0.774	0.714-0.834
Tetrachloroethylene	12.68	13.29	0.954	ok 0.954	0.894-1.014
Tetrahydrofuran	7.89	7.31	1.079	ok 1.114	1.054-1.174
Toluene	11.60	9.17	1.265	ok 1.265	1.205-1.325
Trichloroethylene	9.82	9.17	1.071	ok 1.071	1.011-1.131
Trichlorofluoromethane	4.92	7.31	0.673	ok 0.672	0.612-0.732
Vinyl chloride	4.07	7.31	0.557	ok 0.557	0.497-0.617
Vinyl Acetate	6.56	7.31	0.897	ok 0.904	0.844-0.964
m,p-Xylene	13.88	13.29	1.044	ok 1.045	0.985-1.105
o-Xylene	14.33	13.29	1.078	ok 1.079	1.019-1.139
TVHC As Equiv Pentane	5.15	7.31	0.705	ok 0.704	0.644-0.764
TVHC As Equiv Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.31 ok	7.32	6.99-7.65	161738	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	820410	ok 683713	410228-957198
Chlorobenzene-D5	13.29 ok	13.29	12.96-13.62	417753	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	4.97	7.31	0.680	ok 0.689	0.629-0.749
1,3-Butadiene	4.16	7.31	0.569	ok 0.569	0.509-0.629
Benzene	8.81	9.17	0.961	ok 0.961	0.901-1.021
Bromodichloromethane	9.78	9.17	1.067	ok 1.067	1.007-1.127
Bromoform	13.92	13.28	1.048	ok 1.048	0.988-1.108
Bromomethane	4.33	7.31	0.592	ok 0.592	0.532-0.652
Bromoethene	4.65	7.31	0.636	ok 0.636	0.576-0.696
n-Butane	4.19	7.31	0.573	ok 0.573	0.513-0.633
Benzyl Chloride	16.20	13.28	1.220	ok 1.220	1.160-1.280
n-Butylbenzene	16.93	13.28	1.275	ok 1.279	1.219-1.339
sec-Butylbenzene	16.35	13.28	1.231	ok 1.231	1.171-1.291
tert-Butylbenzene	16.07	13.28	1.210	ok 1.210	1.150-1.270
Carbon disulfide	5.69	7.31	0.778	ok 0.779	0.719-0.839
Chlorobenzene	13.32	13.28	1.003	ok 1.003	0.943-1.063
Chlorodifluoromethane	3.76	7.31	0.514	ok 0.514	0.454-0.574
Chloroethane	4.43	7.31	0.606	ok 0.606	0.546-0.666
Chloroform	7.43	7.31	1.016	ok 1.016	0.956-1.076
Chloromethane	3.94	7.31	0.539	ok 0.539	0.479-0.599
3-Chloropropene	5.54	7.31	0.758	ok 0.758	0.698-0.818
2-Chlorotoluene	15.39	13.28	1.159	ok 1.159	1.099-1.219
Carbon tetrachloride	8.95	7.31	1.224	ok 1.224	1.164-1.284
Cyclohexane	9.07	9.17	0.989	ok 0.989	0.929-1.049
1,1-Dichloroethane	6.40	7.31	0.876	ok 0.875	0.815-0.935
1,1-Dichloroethylene	6.22	7.31	0.851	ok 0.852	0.792-0.912
1,2-Dibromoethane	12.21	13.28	0.919	ok 0.920	0.860-0.980
1,2-Dichloroethane	8.13	7.31	1.112	ok 1.112	1.052-1.172
1,2-Dichloropropane	9.59	9.17	1.046	ok 1.047	0.987-1.107
1,4-Dioxane	10.07	9.17	1.098	ok 1.119	1.059-1.179
Dichlorodifluoromethane	3.83	7.31	0.524	ok 0.524	0.464-0.584
Dibromochloromethane	11.98	13.28	0.902	ok 0.902	0.842-0.962
trans-1,2-Dichloroethylene	6.22	7.31	0.851	ok 0.852	0.792-0.912
cis-1,2-Dichloroethylene	7.16	7.31	0.979	ok 0.979	0.919-1.039
cis-1,3-Dichloropropene	10.66	9.17	1.162	ok 1.163	1.103-1.223
m-Dichlorobenzene	16.21	13.28	1.221	ok 1.221	1.161-1.281

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.62	13.28	1.252	ok 1.252	1.192-1.312
p-Dichlorobenzene	16.28	13.28	1.226	ok 1.226	1.166-1.286
trans-1,3-Dichloropropene	11.17	9.17	1.218	ok 1.219	1.159-1.279
2,3-Dimethylpentane	9.32	9.17	1.016	ok 1.016	0.956-1.076
2,4-Dimethylpentane	8.21	7.31	1.123	ok 1.122	1.062-1.182
Ethanol	4.64	7.31	0.635	ok 0.636	0.576-0.696
Ethylbenzene	13.70	13.28	1.032	ok 1.032	0.972-1.092
Ethyl Acetate	7.51	7.31	1.027	ok 1.036	0.976-1.096
4-Ethyltoluene	15.59	13.28	1.174	ok 1.174	1.114-1.234
Freon 113	5.65	7.31	0.773	ok 0.773	0.713-0.833
Freon 114	4.00	7.31	0.547	ok 0.547	0.487-0.607
Freon 123	4.73	7.31	0.647	ok 0.647	0.587-0.707
Freon 123A	4.76	7.31	0.651	ok 0.652	0.592-0.712
Freon 152A	3.74	7.31	0.512	ok 0.511	0.451-0.571
Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166
Hexachlorobutadiene	18.74	13.28	1.411	ok 1.412	1.352-1.472
Hexane	7.36	7.31	1.007	ok 1.007	0.947-1.067
2-Hexanone	11.95	13.28	0.900	ok 0.905	0.845-0.965
Iodomethane	5.31	7.31	0.726	ok 0.726	0.666-0.786
Isopropylbenzene	14.92	13.28	1.123	ok 1.123	1.063-1.183
Isopropyl Alcohol	5.11	7.31	0.699	ok 0.709	0.649-0.769
p-Isopropyltoluene	16.51	13.28	1.243	ok 1.243	1.183-1.303
Methylene chloride	5.44	7.31	0.744	ok 0.744	0.684-0.804
Methyl ethyl ketone	6.98	7.31	0.955	ok 0.969	0.909-1.029
Methyl Isobutyl Ketone	10.78	9.17	1.176	ok 1.181	1.121-1.241
Methyl Tert Butyl Ether	6.51	7.31	0.891	ok 0.906	0.846-0.966
Methylmethacrylate	10.09	9.17	1.100	ok 1.104	1.044-1.164
Nonane	14.58	13.28	1.098	ok 1.098	1.038-1.158
Octane	12.58	13.28	0.947	ok 0.947	0.887-1.007
Pentane	5.15	7.31	0.705	ok 0.704	0.644-0.764
n-Propylbenzene	15.44	13.28	1.163	ok 1.163	1.103-1.223
Propylene	3.79	7.31	0.518	ok 0.518	0.458-0.578
Styrene	14.22	13.28	1.071	ok 1.071	1.011-1.131
1,1,1-Trichloroethane	8.37	7.31	1.145	ok 1.144	1.084-1.204

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	13.31	13.28	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.31	13.28	1.078 ok	1.078	1.018-1.138
1,1,2-Trichloroethane	11.32	9.17	1.234 ok	1.236	1.176-1.296
1,2,4-Trichlorobenzene	18.31	13.28	1.379 ok	1.384	1.324-1.444
1,2,4-Trimethylbenzene	16.07	13.28	1.210 ok	1.211	1.151-1.271
1,3,5-Trimethylbenzene	15.67	13.28	1.180 ok	1.180	1.120-1.240
2,2,4-Trimethylpentane	9.88	9.17	1.077 ok	1.077	1.017-1.137
Tertiary Butyl Alcohol	5.50	7.31	0.752 ok	0.774	0.714-0.834
Tetrachloroethylene	12.67	13.28	0.954 ok	0.954	0.894-1.014
Tetrahydrofuran	8.05	7.31	1.101 ok	1.114	1.054-1.174
Toluene	11.60	9.17	1.265 ok	1.265	1.205-1.325
Trichloroethylene	9.82	9.17	1.071 ok	1.071	1.011-1.131
Trichlorofluoromethane	4.92	7.31	0.673 ok	0.672	0.612-0.732
Vinyl chloride	4.07	7.31	0.557 ok	0.557	0.497-0.617
Vinyl Acetate	6.59	7.31	0.902 ok	0.904	0.844-0.964
m,p-Xylene	13.88	13.28	1.045 ok	1.045	0.985-1.105
o-Xylene	14.32	13.28	1.078 ok	1.079	1.019-1.139
TVHC As Equiv Pentane	5.15	7.31	0.705 ok	0.704	0.644-0.764
TVHC As Equiv Heptane	10.14	9.17	1.106 ok	1.106	1.046-1.166

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.31 ok	7.32	6.99-7.65	162230	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	791070	ok 683713	410228-957198
Chlorobenzene-D5	13.28 ok	13.29	12.96-13.62	342822	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.26	7.32	0.719	ok 0.689	0.629-0.749
1,3-Butadiene	4.17	7.32	0.570	ok 0.569	0.509-0.629
Benzene	8.82	9.17	0.962	ok 0.961	0.901-1.021
Bromodichloromethane	9.78	9.17	1.067	ok 1.067	1.007-1.127
Bromoform	13.92	13.29	1.047	ok 1.048	0.988-1.108
Bromomethane	4.33	7.32	0.592	ok 0.592	0.532-0.652
Bromoethene	4.66	7.32	0.637	ok 0.636	0.576-0.696
tert-Butylbenzene	16.09	13.29	1.211	ok 1.210	1.150-1.270
Carbon disulfide	5.70	7.32	0.779	ok 0.779	0.719-0.839
Chlorobenzene	13.33	13.29	1.003	ok 1.003	0.943-1.063
Chloroethane	4.44	7.32	0.607	ok 0.606	0.546-0.666
Chloroform	7.43	7.32	1.015	ok 1.016	0.956-1.076
3-Chloropropene	5.55	7.32	0.758	ok 0.758	0.698-0.818
2-Chlorotoluene	15.40	13.29	1.159	ok 1.159	1.099-1.219
Carbon tetrachloride	8.95	7.32	1.223	ok 1.224	1.164-1.284
Cyclohexane	9.07	9.17	0.989	ok 0.989	0.929-1.049
1,1-Dichloroethane	6.40	7.32	0.874	ok 0.875	0.815-0.935
1,1-Dichloroethylene	6.25	7.32	0.854	ok 0.852	0.792-0.912
1,2-Dibromoethane	12.24	13.29	0.921	ok 0.920	0.860-0.980
1,2-Dichloroethane	8.15	7.32	1.113	ok 1.112	1.052-1.172
1,2-Dichloropropane	9.61	9.17	1.048	ok 1.047	0.987-1.107
Dichlorodifluoromethane	3.84	7.32	0.525	ok 0.524	0.464-0.584
Dibromochloromethane	11.98	13.29	0.901	ok 0.902	0.842-0.962
trans-1,2-Dichloroethylene	6.25	7.32	0.854	ok 0.852	0.792-0.912
cis-1,2-Dichloroethylene	7.17	7.32	0.980	ok 0.979	0.919-1.039
cis-1,3-Dichloropropene	10.69	9.17	1.166	ok 1.163	1.103-1.223
2,3-Dimethylpentane	9.32	9.17	1.016	ok 1.016	0.956-1.076
2,4-Dimethylpentane	8.21	7.32	1.122	ok 1.122	1.062-1.182
Ethylbenzene	13.71	13.29	1.032	ok 1.032	0.972-1.092
4-Ethyltoluene	15.62	13.29	1.175	ok 1.174	1.114-1.234
Freon 113	5.65	7.32	0.772	ok 0.773	0.713-0.833
Freon 114	4.00	7.32	0.546	ok 0.547	0.487-0.607
Freon 123	4.74	7.32	0.648	ok 0.647	0.587-0.707
Freon 123A	4.77	7.32	0.652	ok 0.652	0.592-0.712

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166
Hexane	7.37	7.32	1.007	ok 1.007	0.947-1.067
Iodomethane	5.31	7.32	0.725	ok 0.726	0.666-0.786
Isopropylbenzene	14.93	13.29	1.123	ok 1.123	1.063-1.183
Isopropyl Alcohol	5.42	7.32	0.740	ok 0.709	0.649-0.769
Methyl Tert Butyl Ether	6.91	7.32	0.944	ok 0.906	0.846-0.966
Nonane	14.59	13.29	1.098	ok 1.098	1.038-1.158
Octane	12.59	13.29	0.947	ok 0.947	0.887-1.007
Pentane	5.17	7.32	0.706	ok 0.704	0.644-0.764
n-Propylbenzene	15.47	13.29	1.164	ok 1.163	1.103-1.223
Propylene	3.80	7.32	0.519	ok 0.518	0.458-0.578
Styrene	14.23	13.29	1.071	ok 1.071	1.011-1.131
1,1,1-Trichloroethane	8.37	7.32	1.143	ok 1.144	1.084-1.204
1,1,1,2-Tetrachloroethane	13.31	13.29	1.002	ok 1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.33	13.29	1.078	ok 1.078	1.018-1.138
1,1,2-Trichloroethane	11.34	9.17	1.237	ok 1.236	1.176-1.296
1,2,4-Trimethylbenzene	16.10	13.29	1.211	ok 1.211	1.151-1.271
1,3,5-Trimethylbenzene	15.70	13.29	1.181	ok 1.180	1.120-1.240
2,2,4-Trimethylpentane	9.88	9.17	1.077	ok 1.077	1.017-1.137
Tertiary Butyl Alcohol	5.94	7.32	0.811	ok 0.774	0.714-0.834
Tetrachloroethylene	12.67	13.29	0.953	ok 0.954	0.894-1.014
Toluene	11.61	9.17	1.266	ok 1.265	1.205-1.325
Trichloroethylene	9.82	9.17	1.071	ok 1.071	1.011-1.131
Trichlorofluoromethane	4.92	7.32	0.672	ok 0.672	0.612-0.732
Vinyl chloride	4.08	7.32	0.557	ok 0.557	0.497-0.617
m,p-Xylene	13.88	13.29	1.044	ok 1.045	0.985-1.105
o-Xylene	14.34	13.29	1.079	ok 1.079	1.019-1.139
TVHC As Equiv Heptane	10.14	9.17	1.106	ok 1.106	1.046-1.166

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.32	ok 7.32	6.99-7.65	119724	ok 129134	77480-180788
1,4-Difluorobenzene	9.17	ok 9.17	8.84-9.50	610868	ok 683713	410228-957198

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Reporting this level

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Chlorobenzene-D5	13.29 ok	13.29	12.96-13.62	253998 ok	304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,3-Butadiene	4.17	7.32	0.570	ok 0.569	0.509-0.629
Benzene	8.82	9.17	0.962	ok 0.961	0.901-1.021
Bromodichloromethane	9.78	9.17	1.067	ok 1.067	1.007-1.127
Bromomethane	4.33	7.32	0.592	ok 0.592	0.532-0.652
Bromoethene	4.67	7.32	0.638	ok 0.636	0.576-0.696
Carbon disulfide	5.71	7.32	0.780	ok 0.779	0.719-0.839
Chlorobenzene	13.33	13.29	1.003	ok 1.003	0.943-1.063
Chloroethane	4.44	7.32	0.607	ok 0.606	0.546-0.666
Chloroform	7.43	7.32	1.015	ok 1.016	0.956-1.076
3-Chloropropene	5.54	7.32	0.757	ok 0.758	0.698-0.818
Carbon tetrachloride	8.95	7.32	1.223	ok 1.224	1.164-1.284
Cyclohexane	9.06	9.17	0.988	ok 0.989	0.929-1.049
1,1-Dichloroethane	6.41	7.32	0.876	ok 0.875	0.815-0.935
1,2-Dibromoethane	12.24	13.29	0.921	ok 0.920	0.860-0.980
1,2-Dichloroethane	8.15	7.32	1.113	ok 1.112	1.052-1.172
Dichlorodifluoromethane	3.84	7.32	0.525	ok 0.524	0.464-0.584
Dibromochloromethane	11.99	13.29	0.902	ok 0.902	0.842-0.962
cis-1,2-Dichloroethylene	7.17	7.32	0.980	ok 0.979	0.919-1.039
2,3-Dimethylpentane	9.32	9.17	1.016	ok 1.016	0.956-1.076
2,4-Dimethylpentane	8.21	7.32	1.122	ok 1.122	1.062-1.182
Ethylbenzene	13.71	13.29	1.032	ok 1.032	0.972-1.092
Freon 113	5.65	7.32	0.772	ok 0.773	0.713-0.833
Freon 114	4.00	7.32	0.546	ok 0.547	0.487-0.607
Freon 123	4.73	7.32	0.646	ok 0.647	0.587-0.707
Freon 123A	4.78	7.32	0.653	ok 0.652	0.592-0.712
Heptane	10.15	9.17	1.107	ok 1.106	1.046-1.166
Hexane	7.37	7.32	1.007	ok 1.007	0.947-1.067
Iodomethane	5.32	7.32	0.727	ok 0.726	0.666-0.786
Isopropylbenzene	14.93	13.29	1.123	ok 1.123	1.063-1.183
Nonane	14.60	13.29	1.099	ok 1.098	1.038-1.158
Octane	12.59	13.29	0.947	ok 0.947	0.887-1.007
Pentane	5.15	7.32	0.704	ok 0.704	0.644-0.764
1,1,1-Trichloroethane	8.37	7.32	1.143	ok 1.144	1.084-1.204
1,1,1,2-Tetrachloroethane	13.31	13.29	1.002	ok 1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	14.34	13.29	1.079	ok 1.078	1.018-1.138
1,1,2-Trichloroethane	11.34	9.17	1.237	ok 1.236	1.176-1.296
2,2,4-Trimethylpentane	9.88	9.17	1.077	ok 1.077	1.017-1.137
Tertiary Butyl Alcohol	5.98	7.32	0.817	ok 0.774	0.714-0.834
Tetrachloroethylene	12.68	13.29	0.954	ok 0.954	0.894-1.014
Toluene	11.62	9.17	1.267	ok 1.265	1.205-1.325
Trichloroethylene	9.83	9.17	1.072	ok 1.071	1.011-1.131
Trichlorofluoromethane	4.92	7.32	0.672	ok 0.672	0.612-0.732
Vinyl chloride	4.08	7.32	0.557	ok 0.557	0.497-0.617
m,p-Xylene	13.88	13.29	1.044	ok 1.045	0.985-1.105
o-Xylene	14.34	13.29	1.079	ok 1.079	1.019-1.139

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.32 ok	7.32	6.99-7.65	119523	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	606905	ok 683713	410228-957198
Chlorobenzene-D5	13.29 ok	13.29	12.96-13.62	249821	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
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Naphthalene	18.41	13.29	1.385 ok	1.396	1.336-1.456
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Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.32	ok	7.32	6.99-7.65	112522	ok	129134	77480-180788
1,4-Difluorobenzene	9.17	ok	9.17	8.84-9.50	636749	ok	683713	410228-957198
Chlorobenzene-D5	13.29	ok	13.29	12.96-13.62	259865	ok	304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.48	13.28	1.392 ok	1.396	1.336-1.456

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.32 ok	7.32	6.99-7.65	118678	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	659127	ok 683713	410228-957198
Chlorobenzene-D5	13.28 ok	13.29	12.96-13.62	283241	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	4.84	7.33	0.660	ok 0.689	0.629-0.749
1,3-Butadiene	4.16	7.33	0.568	ok 0.569	0.509-0.629
Benzene	8.82	9.18	0.961	ok 0.961	0.901-1.021
Bromodichloromethane	9.79	9.18	1.066	ok 1.067	1.007-1.127
Bromoform	13.93	13.29	1.048	ok 1.048	0.988-1.108
Bromomethane	4.33	7.33	0.591	ok 0.592	0.532-0.652
Bromoethene	4.65	7.33	0.634	ok 0.636	0.576-0.696
n-Butane	4.19	7.33	0.572	ok 0.573	0.513-0.633
Benzyl Chloride	16.21	13.29	1.220	ok 1.220	1.160-1.280
n-Butylbenzene	16.93	13.29	1.274	ok 1.279	1.219-1.339
sec-Butylbenzene	16.35	13.29	1.230	ok 1.231	1.171-1.291
tert-Butylbenzene	16.08	13.29	1.210	ok 1.210	1.150-1.270
Carbon disulfide	5.69	7.33	0.776	ok 0.779	0.719-0.839
Chlorobenzene	13.34	13.29	1.004	ok 1.003	0.943-1.063
Chlorodifluoromethane	3.76	7.33	0.513	ok 0.514	0.454-0.574
Chloroethane	4.43	7.33	0.604	ok 0.606	0.546-0.666
Chloroform	7.45	7.33	1.016	ok 1.016	0.956-1.076
Chloromethane	3.94	7.33	0.538	ok 0.539	0.479-0.599
3-Chloropropene	5.55	7.33	0.757	ok 0.758	0.698-0.818
2-Chlorotoluene	15.40	13.29	1.159	ok 1.159	1.099-1.219
Carbon tetrachloride	8.97	7.33	1.224	ok 1.224	1.164-1.284
Cyclohexane	9.08	9.18	0.989	ok 0.989	0.929-1.049
1,1-Dichloroethane	6.41	7.33	0.874	ok 0.875	0.815-0.935
1,1-Dichloroethylene	6.23	7.33	0.850	ok 0.852	0.792-0.912
1,2-Dibromoethane	12.23	13.29	0.920	ok 0.920	0.860-0.980
1,2-Dichloroethane	8.14	7.33	1.111	ok 1.112	1.052-1.172
1,2-Dichloropropane	9.61	9.18	1.047	ok 1.047	0.987-1.107
1,4-Dioxane	9.88	9.18	1.076	ok 1.119	1.059-1.179
Dichlorodifluoromethane	3.83	7.33	0.523	ok 0.524	0.464-0.584
Dibromochloromethane	12.00	13.29	0.903	ok 0.902	0.842-0.962
trans-1,2-Dichloroethylene	6.23	7.33	0.850	ok 0.852	0.792-0.912
cis-1,2-Dichloroethylene	7.17	7.33	0.978	ok 0.979	0.919-1.039
cis-1,3-Dichloropropene	10.67	9.18	1.162	ok 1.163	1.103-1.223
m-Dichlorobenzene	16.23	13.29	1.221	ok 1.221	1.161-1.281

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	16.63	13.29	1.251	ok 1.252	1.192-1.312
p-Dichlorobenzene	16.29	13.29	1.226	ok 1.226	1.166-1.286
trans-1,3-Dichloropropene	11.18	9.18	1.218	ok 1.219	1.159-1.279
2,3-Dimethylpentane	9.33	9.18	1.016	ok 1.016	0.956-1.076
2,4-Dimethylpentane	8.22	7.33	1.121	ok 1.122	1.062-1.182
Ethanol	4.58	7.33	0.625	ok 0.636	0.576-0.696
Ethylbenzene	13.71	13.29	1.032	ok 1.032	0.972-1.092
Ethyl Acetate	7.42	7.33	1.012	ok 1.036	0.976-1.096
4-Ethyltoluene	15.60	13.29	1.174	ok 1.174	1.114-1.234
Freon 113	5.66	7.33	0.772	ok 0.773	0.713-0.833
Freon 114	4.00	7.33	0.546	ok 0.547	0.487-0.607
Freon 123	4.73	7.33	0.645	ok 0.647	0.587-0.707
Freon 123A	4.77	7.33	0.651	ok 0.652	0.592-0.712
Freon 152A	3.73	7.33	0.509	ok 0.511	0.451-0.571
Heptane	10.15	9.18	1.106	ok 1.106	1.046-1.166
Hexachlorobutadiene	18.74	13.29	1.410	ok 1.412	1.352-1.472
Hexane	7.37	7.33	1.005	ok 1.007	0.947-1.067
2-Hexanone	11.90	13.29	0.895	ok 0.905	0.845-0.965
Iodomethane	5.31	7.33	0.724	ok 0.726	0.666-0.786
Isopropylbenzene	14.93	13.29	1.123	ok 1.123	1.063-1.183
Isopropyl Alcohol	5.02	7.33	0.685	ok 0.709	0.649-0.769
p-Isopropyltoluene	16.52	13.29	1.243	ok 1.243	1.183-1.303
Methylene chloride	5.45	7.33	0.744	ok 0.744	0.684-0.804
Methyl ethyl ketone	6.81	7.33	0.929	ok 0.969	0.909-1.029
Methyl Isobutyl Ketone	10.74	9.18	1.170	ok 1.181	1.121-1.241
Methyl Tert Butyl Ether	6.48	7.33	0.884	ok 0.906	0.846-0.966
Methylmethacrylate	10.07	9.18	1.097	ok 1.104	1.044-1.164
Nonane	14.59	13.29	1.098	ok 1.098	1.038-1.158
Octane	12.59	13.29	0.947	ok 0.947	0.887-1.007
Pentane	5.15	7.33	0.703	ok 0.704	0.644-0.764
n-Propylbenzene	15.45	13.29	1.163	ok 1.163	1.103-1.223
Propylene	3.78	7.33	0.516	ok 0.518	0.458-0.578
Styrene	14.23	13.29	1.071	ok 1.071	1.011-1.131
1,1,1-Trichloroethane	8.39	7.33	1.145	ok 1.144	1.084-1.204

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15 Reporting this level
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	13.32	13.29	1.002	ok 1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.33	13.29	1.078	ok 1.078	1.018-1.138
1,1,2-Trichloroethane	11.34	9.18	1.235	ok 1.236	1.176-1.296
1,2,4-Trichlorobenzene	18.30	13.29	1.377	ok 1.384	1.324-1.444
1,2,4-Trimethylbenzene	16.09	13.29	1.211	ok 1.211	1.151-1.271
1,3,5-Trimethylbenzene	15.68	13.29	1.180	ok 1.180	1.120-1.240
2,2,4-Trimethylpentane	9.89	9.18	1.077	ok 1.077	1.017-1.137
Tertiary Butyl Alcohol	5.44	7.33	0.742	ok 0.774	0.714-0.834
Tetrachloroethylene	12.68	13.29	0.954	ok 0.954	0.894-1.014
Tetrahydrofuran	7.87	7.33	1.074	ok 1.114	1.054-1.174
Toluene	11.60	9.18	1.264	ok 1.265	1.205-1.325
Trichloroethylene	9.84	9.18	1.072	ok 1.071	1.011-1.131
Trichlorofluoromethane	4.92	7.33	0.671	ok 0.672	0.612-0.732
Vinyl chloride	4.07	7.33	0.555	ok 0.557	0.497-0.617
Vinyl Acetate	6.56	7.33	0.895	ok 0.904	0.844-0.964
m,p-Xylene	13.89	13.29	1.045	ok 1.045	0.985-1.105
o-Xylene	14.34	13.29	1.079	ok 1.079	1.019-1.139
TVHC As Equiv Pentane	5.15	7.33	0.703	ok 0.704	0.644-0.764
TVHC As Equiv Heptane	10.14	9.18	1.105	ok 1.106	1.046-1.166

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.33 ok	7.32	6.99-7.65	171345	ok 129134	77480-180788
1,4-Difluorobenzene	9.18 ok	9.17	8.84-9.50	884162	ok 683713	410228-957198
Chlorobenzene-D5	13.29 ok	13.29	12.96-13.62	487071	ng 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
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Naphthalene	18.69	13.29	1.406 ok	1.396	1.336-1.456
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Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.32 ok	7.32	6.99-7.65	110233	ok	129134
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	603711	ok	683713
Chlorobenzene-D5	13.29 ok	13.29	12.96-13.62	253587	ok	304534

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	18.87	13.29	1.420 ok	1.396	1.336-1.456

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.33 ok	7.32	6.99-7.65	105216	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	556681	ok 683713	410228-957198
Chlorobenzene-D5	13.29 ok	13.29	12.96-13.62	234371	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
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Naphthalene	18.40	13.29	1.384 ok	1.396	1.336-1.456
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Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.33 ok	7.32	6.99-7.65	111648	ok 129134	77480-180788
1,4-Difluorobenzene	9.17 ok	9.17	8.84-9.50	618706	ok 683713	410228-957198
Chlorobenzene-D5	13.29 ok	13.29	12.96-13.62	264403	ok 304534	182720-426348

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W1240-IC1240	2W29353.D	01/21/11 10:08	YMH	0.2	GCMS2W	TO-15
V2W1240-ICC1240	2W29354.D	01/21/11 10:45	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29355.D	01/21/11 11:23	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29356.D	01/21/11 12:03	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29357.D	01/21/11 12:41	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29358.D	01/21/11 13:19	YMH	0.1	GCMS2W	TO-15
V2W1240-IC1240	2W29359.D	01/21/11 13:57	YMH	0.04	GCMS2W	TO-15
V2W1240-IC1240	2W29360.D	01/21/11 16:13	YMH	10	GCMS2W	TO-15
V2W1240-IC1240	2W29361.D	01/21/11 16:51	YMH	5	GCMS2W	TO-15
V2W1240-IC1240	2W29362.D	01/21/11 17:33	YMH	40	GCMS2W	TO-15
V2W1240-IC1240	2W29363.D	01/21/11 18:13	YMH	0.5	GCMS2W	TO-15
V2W1240-IC1240	2W29364.D	01/21/11 18:52	YMH	0.2	GCMS2W	TO-15
V2W1240-IC1240	2W29366.D	01/21/11 20:12	YMH	20	GCMS2W	TO-15
V2W1240-IC1240	2W29367.D	01/21/11 20:54	YMH	40	GCMS2W	TO-15
						Reporting this level

Target Compound	RT (min.)		Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)		
Naphthalene	18.40		13.28	1.386 ok	1.396	1.336-1.456		
Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)		Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.32	ok	7.32	6.99-7.65		108580	ok	129134
1,4-Difluorobenzene	9.17	ok	9.17	8.84-9.50		640553	ok	683713
Chlorobenzene-D5	13.28	ok	13.29	12.96-13.62		273666	ok	304534

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15	Reporting this level
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15	
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15	
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15	
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15	
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15	
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15	
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15	
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15	
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15	
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15	
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15	
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15	
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.41	7.56	0.716 ok	0.713	0.653-0.773
1,3-Butadiene	4.70	7.56	0.622 ok	0.621	0.561-0.681
Benzene	8.88	9.20	0.965 ok	0.966	0.906-1.026
Bromodichloromethane	9.79	9.20	1.064 ok	1.065	1.005-1.125
Bromoform	14.08	13.37	1.053 ok	1.053	0.993-1.113
Bromomethane	4.88	7.56	0.646 ok	0.645	0.585-0.705
Bromoethene	5.20	7.56	0.688 ok	0.687	0.627-0.747
n-Butane	4.72	7.56	0.624 ok	0.623	0.563-0.683
Benzyl Chloride	16.67	13.37	1.247 ok	1.247	1.187-1.307
n-Butylbenzene	17.50	13.37	1.309 ok	1.309	1.249-1.369
sec-Butylbenzene	16.80	13.37	1.257 ok	1.256	1.196-1.316
tert-Butylbenzene	16.46	13.37	1.231 ok	1.231	1.171-1.291
Carbon disulfide	6.17	7.56	0.816 ok	0.815	0.755-0.875
Chlorobenzene	13.42	13.37	1.004 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.32	7.56	0.571 ok	0.571	0.511-0.631
Chloroethane	4.98	7.56	0.659 ok	0.657	0.597-0.717
Chloroform	7.65	7.56	1.012 ok	1.012	0.952-1.072
Chloromethane	4.48	7.56	0.593 ok	0.592	0.532-0.652
3-Chloropropene	6.02	7.56	0.796 ok	0.797	0.737-0.857
2-Chlorotoluene	15.68	13.37	1.173 ok	1.173	1.113-1.233
Carbon tetrachloride	9.01	7.56	1.192 ok	1.191	1.131-1.251
Cyclohexane	9.06	9.20	0.985 ok	0.984	0.924-1.044
1,1-Dichloroethane	6.75	7.56	0.893 ok	0.893	0.833-0.953
1,1-Dichloroethylene	5.86	7.56	0.775 ok	0.776	0.716-0.836
1,2-Dibromoethane	12.22	13.37	0.914 ok	0.914	0.854-0.974
1,2-Dichloroethane	8.26	7.56	1.093 ok	1.092	1.032-1.152
1,2-Dichloropropane	9.58	9.20	1.041 ok	1.041	0.981-1.101
1,4-Dioxane	10.01	9.20	1.088 ok	1.081	1.021-1.141
Dichlorodifluoromethane	4.37	7.56	0.578 ok	0.578	0.518-0.638
Dibromochloromethane	12.01	13.37	0.898 ok	0.898	0.838-0.958
trans-1,2-Dichloroethylene	6.59	7.56	0.872 ok	0.871	0.811-0.931
cis-1,2-Dichloroethylene	7.44	7.56	0.984 ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.65	9.20	1.158 ok	1.157	1.097-1.217
m-Dichlorobenzene	16.67	13.37	1.247 ok	1.247	1.187-1.307

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15	Reporting this level
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15	
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15	
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15	
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15	
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15	
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15	
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15	
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15	
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15	
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15	
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15	
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15	
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	17.18	13.37	1.285	ok 1.285	1.225-1.345
p-Dichlorobenzene	16.76	13.37	1.254	ok 1.253	1.193-1.313
trans-1,3-Dichloropropene	11.15	9.20	1.212	ok 1.212	1.152-1.272
Di-Isopropyl ether	7.53	7.56	0.996	ok 0.996	0.936-1.056
2,3-Dimethylpentane	9.23	9.20	1.003	ok 1.003	0.943-1.063
2,4-Dimethylpentane	8.21	7.56	1.086	ok 1.085	1.025-1.145
Ethanol	5.13	7.56	0.679	ok 0.678	0.618-0.738
Ethylbenzene	13.79	13.37	1.031	ok 1.031	0.971-1.091
Ethyl Acetate	7.62	7.56	1.008	ok 1.003	0.943-1.063
4-Ethyltoluene	15.88	13.37	1.188	ok 1.188	1.128-1.248
Freon 113	6.11	7.56	0.808	ok 0.808	0.748-0.868
Freon 114	4.54	7.56	0.601	ok 0.599	0.539-0.659
Freon 123	5.27	7.56	0.697	ok 0.696	0.636-0.756
Freon 123A	5.30	7.56	0.701	ok 0.701	0.641-0.761
Freon 152A	4.29	7.56	0.567	ok 0.566	0.506-0.626
Heptane	10.00	9.20	1.087	ok 1.087	1.027-1.147
Hexachlorobutadiene	19.77	13.37	1.479	ok 1.478	1.418-1.538
Hexane	7.48	7.56	0.989	ok 0.990	0.930-1.050
2-Hexanone	11.89	13.37	0.889	ok 0.888	0.828-0.948
Iodomethane	5.83	7.56	0.771	ok 0.770	0.710-0.830
Isopropylbenzene	15.12	13.37	1.131	ok 1.131	1.071-1.191
Isopropyl Alcohol	5.61	7.56	0.742	ok 0.737	0.677-0.797
p-Isopropyltoluene	16.98	13.37	1.270	ok 1.270	1.210-1.330
Methylene chloride	5.96	7.56	0.788	ok 0.789	0.729-0.849
Methyl ethyl ketone	7.11	7.56	0.940	ok 0.938	0.878-0.998
Methyl Isobutyl Ketone	10.71	9.20	1.164	ok 1.162	1.102-1.222
Methyl Tert Butyl Ether	6.82	7.56	0.902	ok 0.900	0.840-0.960
Methylmethacrylate	10.05	9.20	1.092	ok 1.092	1.032-1.152
Nonane	14.66	13.37	1.096	ok 1.096	1.036-1.156
Octane	12.48	13.37	0.933	ok 0.933	0.873-0.993
Pentane	5.64	7.56	0.746	ok 0.745	0.685-0.805
n-Propylbenzene	15.71	13.37	1.175	ok 1.175	1.115-1.235
Propylene	4.34	7.56	0.574	ok 0.572	0.512-0.632
Styrene	14.38	13.37	1.076	ok 1.075	1.015-1.135

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15	Reporting this level
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15	
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15	
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15	
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15	
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15	
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15	
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15	
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15	
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15	
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15	
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15	
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15	
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	8.47	7.56	1.120	ok 1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	13.39	13.37	1.001	ok 1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.50	13.37	1.085	ok 1.085	1.025-1.145
1,1,2-Trichloroethane	11.30	9.20	1.228	ok 1.229	1.169-1.289
1,2,4-Trichlorobenzene	19.22	13.37	1.438	ok 1.437	1.377-1.497
1,2,3-Trichloropropane	14.63	13.37	1.094	ok 1.094	1.034-1.154
1,2,4-Trimethylbenzene	16.47	13.37	1.232	ok 1.232	1.172-1.292
1,3,5-Trimethylbenzene	15.98	13.37	1.195	ok 1.195	1.135-1.255
2,2,4-Trimethylpentane	9.75	9.20	1.060	ok 1.059	0.999-1.119
Tertiary Butyl Alcohol	6.02	7.56	0.796	ok 0.794	0.734-0.854
Tetrachloroethylene	12.69	13.37	0.949	ok 0.949	0.889-1.009
Tetrahydrofuran	8.08	7.56	1.069	ok 1.064	1.004-1.124
Toluene	11.56	9.20	1.257	ok 1.257	1.197-1.317
Trichloroethylene	9.82	9.20	1.067	ok 1.067	1.007-1.127
Trichlorofluoromethane	5.44	7.56	0.720	ok 0.720	0.660-0.780
Vinyl chloride	4.61	7.56	0.610	ok 0.610	0.550-0.670
Vinyl Acetate	6.89	7.56	0.911	ok 0.909	0.849-0.969
m,p-Xylene	13.97	13.37	1.045	ok 1.045	0.985-1.105
o-Xylene	14.48	13.37	1.083	ok 1.083	1.023-1.143

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.56	7.23-7.89	117652	ok 126098	75659-176537
1,4-Difluorobenzene	9.20 ok	9.20	8.87-9.53	573309	ok 621202	372721-869683
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	238373	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.36	7.57	0.708	ok 0.713	0.653-0.773
1,3-Butadiene	4.69	7.57	0.620	ok 0.621	0.561-0.681
Benzene	8.89	9.21	0.965	ok 0.966	0.906-1.026
Bromodichloromethane	9.81	9.21	1.065	ok 1.065	1.005-1.125
Bromoform	14.10	13.38	1.054	ok 1.053	0.993-1.113
Bromomethane	4.87	7.57	0.643	ok 0.645	0.585-0.705
Bromoethene	5.20	7.57	0.687	ok 0.687	0.627-0.747
n-Butane	4.71	7.57	0.622	ok 0.623	0.563-0.683
Benzyl Chloride	16.69	13.38	1.247	ok 1.247	1.187-1.307
n-Butylbenzene	17.51	13.38	1.309	ok 1.309	1.249-1.369
sec-Butylbenzene	16.80	13.38	1.256	ok 1.256	1.196-1.316
tert-Butylbenzene	16.47	13.38	1.231	ok 1.231	1.171-1.291
Carbon disulfide	6.17	7.57	0.815	ok 0.815	0.755-0.875
Chlorobenzene	13.43	13.38	1.004	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.31	7.57	0.569	ok 0.571	0.511-0.631
Chloroethane	4.97	7.57	0.657	ok 0.657	0.597-0.717
Chloroform	7.66	7.57	1.012	ok 1.012	0.952-1.072
Chloromethane	4.48	7.57	0.592	ok 0.592	0.532-0.652
3-Chloropropene	6.03	7.57	0.797	ok 0.797	0.737-0.857
2-Chlorotoluene	15.70	13.38	1.173	ok 1.173	1.113-1.233
Carbon tetrachloride	9.02	7.57	1.192	ok 1.191	1.131-1.251
Cyclohexane	9.06	9.21	0.984	ok 0.984	0.924-1.044
1,1-Dichloroethane	6.76	7.57	0.893	ok 0.893	0.833-0.953
1,1-Dichloroethylene	5.87	7.57	0.775	ok 0.776	0.716-0.836
1,2-Dibromoethane	12.22	13.38	0.913	ok 0.914	0.854-0.974
1,2-Dichloroethane	8.27	7.57	1.092	ok 1.092	1.032-1.152
1,2-Dichloropropane	9.59	9.21	1.041	ok 1.041	0.981-1.101
1,4-Dioxane	9.89	9.21	1.074	ok 1.081	1.021-1.141
Dichlorodifluoromethane	4.37	7.57	0.577	ok 0.578	0.518-0.638
Dibromochloromethane	12.01	13.38	0.898	ok 0.898	0.838-0.958
trans-1,2-Dichloroethylene	6.59	7.57	0.871	ok 0.871	0.811-0.931
cis-1,2-Dichloroethylene	7.45	7.57	0.984	ok 0.984	0.924-1.044
cis-1,3-Dichloropropene	10.65	9.21	1.156	ok 1.157	1.097-1.217
m-Dichlorobenzene	16.68	13.38	1.247	ok 1.247	1.187-1.307

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	17.19	13.38	1.285	ok 1.285	1.225-1.345
p-Dichlorobenzene	16.77	13.38	1.253	ok 1.253	1.193-1.313
trans-1,3-Dichloropropene	11.16	9.21	1.212	ok 1.212	1.152-1.272
Di-Isopropyl ether	7.51	7.57	0.992	ok 0.996	0.936-1.056
2,3-Dimethylpentane	9.24	9.21	1.003	ok 1.003	0.943-1.063
2,4-Dimethylpentane	8.21	7.57	1.085	ok 1.085	1.025-1.145
Ethanol	5.09	7.57	0.672	ok 0.678	0.618-0.738
Ethylbenzene	13.79	13.38	1.031	ok 1.031	0.971-1.091
Ethyl Acetate	7.58	7.57	1.001	ok 1.003	0.943-1.063
4-Ethyltoluene	15.90	13.38	1.188	ok 1.188	1.128-1.248
Freon 113	6.11	7.57	0.807	ok 0.808	0.748-0.868
Freon 114	4.53	7.57	0.598	ok 0.599	0.539-0.659
Freon 123	5.27	7.57	0.696	ok 0.696	0.636-0.756
Freon 123A	5.30	7.57	0.700	ok 0.701	0.641-0.761
Freon 152A	4.28	7.57	0.565	ok 0.566	0.506-0.626
Heptane	10.01	9.21	1.087	ok 1.087	1.027-1.147
Hexachlorobutadiene	19.77	13.38	1.478	ok 1.478	1.418-1.538
Hexane	7.49	7.57	0.989	ok 0.990	0.930-1.050
2-Hexanone	11.84	13.38	0.885	ok 0.888	0.828-0.948
Iodomethane	5.83	7.57	0.770	ok 0.770	0.710-0.830
Isopropylbenzene	15.13	13.38	1.131	ok 1.131	1.071-1.191
Isopropyl Alcohol	5.54	7.57	0.732	ok 0.737	0.677-0.797
p-Isopropyltoluene	17.00	13.38	1.271	ok 1.270	1.210-1.330
Methylene chloride	5.97	7.57	0.789	ok 0.789	0.729-0.849
Methyl ethyl ketone	7.06	7.57	0.933	ok 0.938	0.878-0.998
Methyl Isobutyl Ketone	10.65	9.21	1.156	ok 1.162	1.102-1.222
Methyl Tert Butyl Ether	6.77	7.57	0.894	ok 0.900	0.840-0.960
Methylmethacrylate	10.03	9.21	1.089	ok 1.092	1.032-1.152
Nonane	14.67	13.38	1.096	ok 1.096	1.036-1.156
Octane	12.48	13.38	0.933	ok 0.933	0.873-0.993
Pentane	5.64	7.57	0.745	ok 0.745	0.685-0.805
n-Propylbenzene	15.72	13.38	1.175	ok 1.175	1.115-1.235
Propylene	4.33	7.57	0.572	ok 0.572	0.512-0.632
Styrene	14.39	13.38	1.075	ok 1.075	1.015-1.135

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	8.47	7.57	1.119 ok	1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	13.40	13.38	1.001 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.51	13.38	1.084 ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.32	9.21	1.229 ok	1.229	1.169-1.289
1,2,4-Trichlorobenzene	19.22	13.38	1.436 ok	1.437	1.377-1.497
1,2,3-Trichloropropane	14.64	13.38	1.094 ok	1.094	1.034-1.154
1,2,4-Trimethylbenzene	16.49	13.38	1.232 ok	1.232	1.172-1.292
1,3,5-Trimethylbenzene	15.99	13.38	1.195 ok	1.195	1.135-1.255
2,2,4-Trimethylpentane	9.75	9.21	1.059 ok	1.059	0.999-1.119
Tertiary Butyl Alcohol	5.93	7.57	0.783 ok	0.794	0.734-0.854
Tetrachloroethylene	12.70	13.38	0.949 ok	0.949	0.889-1.009
Tetrahydrofuran	7.99	7.57	1.055 ok	1.064	1.004-1.124
Toluene	11.57	9.21	1.256 ok	1.257	1.197-1.317
Trichloroethylene	9.82	9.21	1.066 ok	1.067	1.007-1.127
Trichlorofluoromethane	5.45	7.57	0.720 ok	0.720	0.660-0.780
Vinyl chloride	4.62	7.57	0.610 ok	0.610	0.550-0.670
Vinyl Acetate	6.87	7.57	0.908 ok	0.909	0.849-0.969
m,p-Xylene	13.98	13.38	1.045 ok	1.045	0.985-1.105
o-Xylene	14.48	13.38	1.082 ok	1.083	1.023-1.143

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.57 ok	7.56	7.23-7.89	124090	ok 126098	75659-176537
1,4-Difluorobenzene	9.21 ok	9.20	8.87-9.53	614086	ok 621202	372721-869683
Chlorobenzene-D5	13.38 ok	13.37	13.04-13.70	287965	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.43	7.56	0.718	ok 0.713	0.653-0.773
1,3-Butadiene	4.70	7.56	0.622	ok 0.621	0.561-0.681
Benzene	8.88	9.20	0.965	ok 0.966	0.906-1.026
Bromodichloromethane	9.80	9.20	1.065	ok 1.065	1.005-1.125
Bromoform	14.08	13.37	1.053	ok 1.053	0.993-1.113
Bromomethane	4.88	7.56	0.646	ok 0.645	0.585-0.705
Bromoethene	5.19	7.56	0.687	ok 0.687	0.627-0.747
n-Butane	4.71	7.56	0.623	ok 0.623	0.563-0.683
Benzyl Chloride	16.68	13.37	1.248	ok 1.247	1.187-1.307
n-Butylbenzene	17.51	13.37	1.310	ok 1.309	1.249-1.369
sec-Butylbenzene	16.80	13.37	1.257	ok 1.256	1.196-1.316
tert-Butylbenzene	16.47	13.37	1.232	ok 1.231	1.171-1.291
Carbon disulfide	6.16	7.56	0.815	ok 0.815	0.755-0.875
Chlorobenzene	13.41	13.37	1.003	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.33	7.56	0.573	ok 0.571	0.511-0.631
Chloroethane	4.97	7.56	0.657	ok 0.657	0.597-0.717
Chloroform	7.65	7.56	1.012	ok 1.012	0.952-1.072
Chloromethane	4.48	7.56	0.593	ok 0.592	0.532-0.652
3-Chloropropene	6.03	7.56	0.798	ok 0.797	0.737-0.857
2-Chlorotoluene	15.69	13.37	1.174	ok 1.173	1.113-1.233
Carbon tetrachloride	9.00	7.56	1.190	ok 1.191	1.131-1.251
Cyclohexane	9.06	9.20	0.985	ok 0.984	0.924-1.044
1,1-Dichloroethane	6.75	7.56	0.893	ok 0.893	0.833-0.953
1,1-Dichloroethylene	5.87	7.56	0.776	ok 0.776	0.716-0.836
1,2-Dibromoethane	12.22	13.37	0.914	ok 0.914	0.854-0.974
1,2-Dichloroethane	8.26	7.56	1.093	ok 1.092	1.032-1.152
1,2-Dichloropropane	9.59	9.20	1.042	ok 1.041	0.981-1.101
Dichlorodifluoromethane	4.38	7.56	0.579	ok 0.578	0.518-0.638
Dibromochloromethane	12.01	13.37	0.898	ok 0.898	0.838-0.958
trans-1,2-Dichloroethylene	6.59	7.56	0.872	ok 0.871	0.811-0.931
cis-1,2-Dichloroethylene	7.44	7.56	0.984	ok 0.984	0.924-1.044
cis-1,3-Dichloropropene	10.65	9.20	1.158	ok 1.157	1.097-1.217
m-Dichlorobenzene	16.67	13.37	1.247	ok 1.247	1.187-1.307
o-Dichlorobenzene	17.18	13.37	1.285	ok 1.285	1.225-1.345

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
p-Dichlorobenzene	16.76	13.37	1.254 ok	1.253	1.193-1.313
trans-1,3-Dichloropropene	11.15	9.20	1.212 ok	1.212	1.152-1.272
Di-Isopropyl ether	7.57	7.56	1.001 ok	0.996	0.936-1.056
2,3-Dimethylpentane	9.23	9.20	1.003 ok	1.003	0.943-1.063
2,4-Dimethylpentane	8.21	7.56	1.086 ok	1.085	1.025-1.145
Ethanol	5.18	7.56	0.685 ok	0.678	0.618-0.738
Ethylbenzene	13.79	13.37	1.031 ok	1.031	0.971-1.091
Ethyl Acetate	7.65	7.56	1.012 ok	1.003	0.943-1.063
4-Ethyltoluene	15.89	13.37	1.188 ok	1.188	1.128-1.248
Freon 113	6.11	7.56	0.808 ok	0.808	0.748-0.868
Freon 114	4.53	7.56	0.599 ok	0.599	0.539-0.659
Freon 123	5.26	7.56	0.696 ok	0.696	0.636-0.756
Freon 123A	5.30	7.56	0.701 ok	0.701	0.641-0.761
Freon 152A	4.28	7.56	0.566 ok	0.566	0.506-0.626
Heptane	10.00	9.20	1.087 ok	1.087	1.027-1.147
Hexachlorobutadiene	19.78	13.37	1.479 ok	1.478	1.418-1.538
Hexane	7.49	7.56	0.991 ok	0.990	0.930-1.050
2-Hexanone	11.95	13.37	0.894 ok	0.888	0.828-0.948
Iodomethane	5.82	7.56	0.770 ok	0.770	0.710-0.830
Isopropylbenzene	15.13	13.37	1.132 ok	1.131	1.071-1.191
p-Isopropyltoluene	16.98	13.37	1.270 ok	1.270	1.210-1.330
Methylene chloride	5.96	7.56	0.788 ok	0.789	0.729-0.849
Methyl ethyl ketone	7.16	7.56	0.947 ok	0.938	0.878-0.998
Methyl Isobutyl Ketone	10.76	9.20	1.170 ok	1.162	1.102-1.222
Methylmethacrylate	10.06	9.20	1.093 ok	1.092	1.032-1.152
Nonane	14.67	13.37	1.097 ok	1.096	1.036-1.156
Octane	12.48	13.37	0.933 ok	0.933	0.873-0.993
Pentane	5.63	7.56	0.745 ok	0.745	0.685-0.805
n-Propylbenzene	15.71	13.37	1.175 ok	1.175	1.115-1.235
Propylene	4.33	7.56	0.573 ok	0.572	0.512-0.632
Styrene	14.38	13.37	1.076 ok	1.075	1.015-1.135
1,1,1-Trichloroethane	8.47	7.56	1.120 ok	1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	13.40	13.37	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.50	13.37	1.085 ok	1.085	1.025-1.145

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	11.30	9.20	1.228 ok	1.229	1.169-1.289
1,2,3-Trichloropropane	14.63	13.37	1.094 ok	1.094	1.034-1.154
1,2,4-Trimethylbenzene	16.47	13.37	1.232 ok	1.232	1.172-1.292
1,3,5-Trimethylbenzene	15.98	13.37	1.195 ok	1.195	1.135-1.255
2,2,4-Trimethylpentane	9.75	9.20	1.060 ok	1.059	0.999-1.119
Tertiary Butyl Alcohol	6.10	7.56	0.807 ok	0.794	0.734-0.854
Tetrachloroethylene	12.70	13.37	0.950 ok	0.949	0.889-1.009
Tetrahydrofuran	8.16	7.56	1.079 ok	1.064	1.004-1.124
Toluene	11.56	9.20	1.257 ok	1.257	1.197-1.317
Trichloroethylene	9.82	9.20	1.067 ok	1.067	1.007-1.127
Trichlorofluoromethane	5.44	7.56	0.720 ok	0.720	0.660-0.780
Vinyl chloride	4.62	7.56	0.611 ok	0.610	0.550-0.670
m,p-Xylene	13.97	13.37	1.045 ok	1.045	0.985-1.105
o-Xylene	14.48	13.37	1.083 ok	1.083	1.023-1.143

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.56	7.23-7.89	118381 ok	126098	75659-176537
1,4-Difluorobenzene	9.20 ok	9.20	8.87-9.53	581743 ok	621202	372721-869683
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	207934 ok	267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
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Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.44	7.56	0.720	ok 0.713	0.653-0.773
1,3-Butadiene	4.70	7.56	0.622	ok 0.621	0.561-0.681
Benzene	8.88	9.20	0.965	ok 0.966	0.906-1.026
Bromodichloromethane	9.80	9.20	1.065	ok 1.065	1.005-1.125
Bromoform	14.08	13.37	1.053	ok 1.053	0.993-1.113
Bromomethane	4.88	7.56	0.646	ok 0.645	0.585-0.705
Bromoethene	5.20	7.56	0.688	ok 0.687	0.627-0.747
n-Butane	4.72	7.56	0.624	ok 0.623	0.563-0.683
Benzyl Chloride	16.67	13.37	1.247	ok 1.247	1.187-1.307
sec-Butylbenzene	16.79	13.37	1.256	ok 1.256	1.196-1.316
tert-Butylbenzene	16.47	13.37	1.232	ok 1.231	1.171-1.291
Carbon disulfide	6.17	7.56	0.816	ok 0.815	0.755-0.875
Chlorobenzene	13.42	13.37	1.004	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.35	7.56	0.575	ok 0.571	0.511-0.631
Chloroethane	4.98	7.56	0.659	ok 0.657	0.597-0.717
Chloroform	7.64	7.56	1.011	ok 1.012	0.952-1.072
Chloromethane	4.48	7.56	0.593	ok 0.592	0.532-0.652
3-Chloropropene	6.02	7.56	0.796	ok 0.797	0.737-0.857
2-Chlorotoluene	15.70	13.37	1.174	ok 1.173	1.113-1.233
Carbon tetrachloride	9.01	7.56	1.192	ok 1.191	1.131-1.251
Cyclohexane	9.05	9.20	0.984	ok 0.984	0.924-1.044
1,1-Dichloroethane	6.76	7.56	0.894	ok 0.893	0.833-0.953
1,1-Dichloroethylene	5.85	7.56	0.774	ok 0.776	0.716-0.836
1,2-Dibromoethane	12.22	13.37	0.914	ok 0.914	0.854-0.974
1,2-Dichloropropane	9.57	9.20	1.040	ok 1.041	0.981-1.101
Dichlorodifluoromethane	4.37	7.56	0.578	ok 0.578	0.518-0.638
Dibromochloromethane	12.01	13.37	0.898	ok 0.898	0.838-0.958
trans-1,2-Dichloroethylene	6.59	7.56	0.872	ok 0.871	0.811-0.931
cis-1,2-Dichloroethylene	7.43	7.56	0.983	ok 0.984	0.924-1.044
cis-1,3-Dichloropropene	10.65	9.20	1.158	ok 1.157	1.097-1.217
m-Dichlorobenzene	16.67	13.37	1.247	ok 1.247	1.187-1.307
o-Dichlorobenzene	17.19	13.37	1.286	ok 1.285	1.225-1.345
p-Dichlorobenzene	16.75	13.37	1.253	ok 1.253	1.193-1.313
trans-1,3-Dichloropropene	11.15	9.20	1.212	ok 1.212	1.152-1.272

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	7.57	7.56	1.001	ok 0.996	0.936-1.056
2,3-Dimethylpentane	9.19	9.20	0.999	ok 1.003	0.943-1.063
2,4-Dimethylpentane	8.20	7.56	1.085	ok 1.085	1.025-1.145
Ethanol	5.15	7.56	0.681	ok 0.678	0.618-0.738
Ethylbenzene	13.78	13.37	1.031	ok 1.031	0.971-1.091
Ethyl Acetate	7.45	7.56	0.985	ok 1.003	0.943-1.063
4-Ethyltoluene	15.88	13.37	1.188	ok 1.188	1.128-1.248
Freon 113	6.10	7.56	0.807	ok 0.808	0.748-0.868
Freon 114	4.54	7.56	0.601	ok 0.599	0.539-0.659
Freon 123	5.27	7.56	0.697	ok 0.696	0.636-0.756
Freon 123A	5.30	7.56	0.701	ok 0.701	0.641-0.761
Freon 152A	4.29	7.56	0.567	ok 0.566	0.506-0.626
Heptane	9.99	9.20	1.086	ok 1.087	1.027-1.147
Hexane	7.48	7.56	0.989	ok 0.990	0.930-1.050
Iodomethane	5.82	7.56	0.770	ok 0.770	0.710-0.830
Isopropylbenzene	15.12	13.37	1.131	ok 1.131	1.071-1.191
p-Isopropyltoluene	16.98	13.37	1.270	ok 1.270	1.210-1.330
Methylene chloride	5.96	7.56	0.788	ok 0.789	0.729-0.849
Methyl Tert Butyl Ether	6.86	7.56	0.907	ok 0.900	0.840-0.960
Methylmethacrylate	10.06	9.20	1.093	ok 1.092	1.032-1.152
Nonane	14.65	13.37	1.096	ok 1.096	1.036-1.156
Octane	12.48	13.37	0.933	ok 0.933	0.873-0.993
Pentane	5.63	7.56	0.745	ok 0.745	0.685-0.805
n-Propylbenzene	15.71	13.37	1.175	ok 1.175	1.115-1.235
Propylene	4.32	7.56	0.571	ok 0.572	0.512-0.632
Styrene	14.39	13.37	1.076	ok 1.075	1.015-1.135
1,1,1-Trichloroethane	8.47	7.56	1.120	ok 1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	13.39	13.37	1.001	ok 1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.50	13.37	1.085	ok 1.085	1.025-1.145
1,1,2-Trichloroethane	11.31	9.20	1.229	ok 1.229	1.169-1.289
1,2,3-Trichloropropane	14.64	13.37	1.095	ok 1.094	1.034-1.154
1,2,4-Trimethylbenzene	16.48	13.37	1.233	ok 1.232	1.172-1.292
1,3,5-Trimethylbenzene	15.98	13.37	1.195	ok 1.195	1.135-1.255
2,2,4-Trimethylpentane	9.75	9.20	1.060	ok 1.059	0.999-1.119

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Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Tertiary Butyl Alcohol	6.09	7.56	0.806 ok	0.794	0.734-0.854
Tetrachloroethylene	12.70	13.37	0.950 ok	0.949	0.889-1.009
Toluene	11.57	9.20	1.258 ok	1.257	1.197-1.317
Trichloroethylene	9.82	9.20	1.067 ok	1.067	1.007-1.127
Trichlorofluoromethane	5.44	7.56	0.720 ok	0.720	0.660-0.780
Vinyl chloride	4.61	7.56	0.610 ok	0.610	0.550-0.670
m,p-Xylene	13.97	13.37	1.045 ok	1.045	0.985-1.105
o-Xylene	14.48	13.37	1.083 ok	1.083	1.023-1.143

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.56	7.23-7.89	115052 ok	126098	75659-176537
1,4-Difluorobenzene	9.20 ok	9.20	8.87-9.53	558199 ok	621202	372721-869683
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	196174 ok	267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)		Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)		
Naphthalene	19.36		13.37	1.448 ok	1.448	1.388-1.508		
Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)		Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56	ok	7.56	7.23-7.89		134143	ok 126098	75659-176537
1,4-Difluorobenzene	9.20	ok	9.20	8.87-9.53		644844	ok 621202	372721-869683
Chlorobenzene-D5	13.37	ok	13.37	13.04-13.70		285175	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	19.36	13.37	1.448 ok	1.448	1.388-1.508

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.56	7.23-7.89	124505	ok 126098	75659-176537
1,4-Difluorobenzene	9.20 ok	9.20	8.87-9.53	618294	ok 621202	372721-869683
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	274209	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.38	7.59	0.709	ok 0.713	0.653-0.773
1,3-Butadiene	4.70	7.59	0.619	ok 0.621	0.561-0.681
Benzene	8.91	9.23	0.965	ok 0.966	0.906-1.026
Bromodichloromethane	9.83	9.23	1.065	ok 1.065	1.005-1.125
Bromoform	14.12	13.40	1.054	ok 1.053	0.993-1.113
Bromomethane	4.88	7.59	0.643	ok 0.645	0.585-0.705
Bromoethene	5.21	7.59	0.686	ok 0.687	0.627-0.747
n-Butane	4.73	7.59	0.623	ok 0.623	0.563-0.683
Benzyl Chloride	16.70	13.40	1.246	ok 1.247	1.187-1.307
n-Butylbenzene	17.52	13.40	1.307	ok 1.309	1.249-1.369
sec-Butylbenzene	16.82	13.40	1.255	ok 1.256	1.196-1.316
tert-Butylbenzene	16.49	13.40	1.231	ok 1.231	1.171-1.291
Carbon disulfide	6.18	7.59	0.814	ok 0.815	0.755-0.875
Chlorobenzene	13.44	13.40	1.003	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.32	7.59	0.569	ok 0.571	0.511-0.631
Chloroethane	4.98	7.59	0.656	ok 0.657	0.597-0.717
Chloroform	7.69	7.59	1.013	ok 1.012	0.952-1.072
Chloromethane	4.49	7.59	0.592	ok 0.592	0.532-0.652
3-Chloropropene	6.05	7.59	0.797	ok 0.797	0.737-0.857
2-Chlorotoluene	15.71	13.40	1.172	ok 1.173	1.113-1.233
Carbon tetrachloride	9.03	7.59	1.190	ok 1.191	1.131-1.251
Cyclohexane	9.08	9.23	0.984	ok 0.984	0.924-1.044
1,1-Dichloroethane	6.78	7.59	0.893	ok 0.893	0.833-0.953
1,1-Dichloroethylene	5.89	7.59	0.776	ok 0.776	0.716-0.836
1,2-Dibromoethane	12.25	13.40	0.914	ok 0.914	0.854-0.974
1,2-Dichloroethane	8.29	7.59	1.092	ok 1.092	1.032-1.152
1,2-Dichloropropane	9.61	9.23	1.041	ok 1.041	0.981-1.101
1,4-Dioxane	9.92	9.23	1.075	ok 1.081	1.021-1.141
Dichlorodifluoromethane	4.38	7.59	0.577	ok 0.578	0.518-0.638
Dibromochloromethane	12.04	13.40	0.899	ok 0.898	0.838-0.958
trans-1,2-Dichloroethylene	6.61	7.59	0.871	ok 0.871	0.811-0.931
cis-1,2-Dichloroethylene	7.46	7.59	0.983	ok 0.984	0.924-1.044
cis-1,3-Dichloropropene	10.67	9.23	1.156	ok 1.157	1.097-1.217
m-Dichlorobenzene	16.70	13.40	1.246	ok 1.247	1.187-1.307

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	17.21	13.40	1.284	ok 1.285	1.225-1.345
p-Dichlorobenzene	16.78	13.40	1.252	ok 1.253	1.193-1.313
trans-1,3-Dichloropropene	11.18	9.23	1.211	ok 1.212	1.152-1.272
Di-Isopropyl ether	7.53	7.59	0.992	ok 0.996	0.936-1.056
2,3-Dimethylpentane	9.26	9.23	1.003	ok 1.003	0.943-1.063
2,4-Dimethylpentane	8.23	7.59	1.084	ok 1.085	1.025-1.145
Ethanol	5.13	7.59	0.676	ok 0.678	0.618-0.738
Ethylbenzene	13.81	13.40	1.031	ok 1.031	0.971-1.091
Ethyl Acetate	7.62	7.59	1.004	ok 1.003	0.943-1.063
4-Ethyltoluene	15.91	13.40	1.187	ok 1.188	1.128-1.248
Freon 113	6.13	7.59	0.808	ok 0.808	0.748-0.868
Freon 114	4.54	7.59	0.598	ok 0.599	0.539-0.659
Freon 123	5.28	7.59	0.696	ok 0.696	0.636-0.756
Freon 123A	5.32	7.59	0.701	ok 0.701	0.641-0.761
Freon 152A	4.29	7.59	0.565	ok 0.566	0.506-0.626
Heptane	10.03	9.23	1.087	ok 1.087	1.027-1.147
Hexachlorobutadiene	19.78	13.40	1.476	ok 1.478	1.418-1.538
Hexane	7.51	7.59	0.989	ok 0.990	0.930-1.050
2-Hexanone	11.88	13.40	0.887	ok 0.888	0.828-0.948
Iodomethane	5.85	7.59	0.771	ok 0.770	0.710-0.830
Isopropylbenzene	15.15	13.40	1.131	ok 1.131	1.071-1.191
Isopropyl Alcohol	5.60	7.59	0.738	ok 0.737	0.677-0.797
p-Isopropyltoluene	17.01	13.40	1.269	ok 1.270	1.210-1.330
Methylene chloride	5.99	7.59	0.789	ok 0.789	0.729-0.849
Methyl ethyl ketone	7.09	7.59	0.934	ok 0.938	0.878-0.998
Methyl Isobutyl Ketone	10.69	9.23	1.158	ok 1.162	1.102-1.222
Methyl Tert Butyl Ether	6.79	7.59	0.895	ok 0.900	0.840-0.960
Methylmethacrylate	10.06	9.23	1.090	ok 1.092	1.032-1.152
Nonane	14.68	13.40	1.096	ok 1.096	1.036-1.156
Octane	12.50	13.40	0.933	ok 0.933	0.873-0.993
Pentane	5.65	7.59	0.744	ok 0.745	0.685-0.805
n-Propylbenzene	15.74	13.40	1.175	ok 1.175	1.115-1.235
Propylene	4.33	7.59	0.570	ok 0.572	0.512-0.632
Styrene	14.41	13.40	1.075	ok 1.075	1.015-1.135

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	8.49	7.59	1.119 ok	1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	13.42	13.40	1.001 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.54	13.40	1.085 ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.34	9.23	1.229 ok	1.229	1.169-1.289
1,2,4-Trichlorobenzene	19.23	13.40	1.435 ok	1.437	1.377-1.497
1,2,3-Trichloropropane	14.67	13.40	1.095 ok	1.094	1.034-1.154
1,2,4-Trimethylbenzene	16.50	13.40	1.231 ok	1.232	1.172-1.292
1,3,5-Trimethylbenzene	16.01	13.40	1.195 ok	1.195	1.135-1.255
2,2,4-Trimethylpentane	9.77	9.23	1.059 ok	1.059	0.999-1.119
Tertiary Butyl Alcohol	5.99	7.59	0.789 ok	0.794	0.734-0.854
Tetrachloroethylene	12.71	13.40	0.949 ok	0.949	0.889-1.009
Tetrahydrofuran	8.02	7.59	1.057 ok	1.064	1.004-1.124
Toluene	11.59	9.23	1.256 ok	1.257	1.197-1.317
Trichloroethylene	9.84	9.23	1.066 ok	1.067	1.007-1.127
Trichlorofluoromethane	5.46	7.59	0.719 ok	0.720	0.660-0.780
Vinyl chloride	4.62	7.59	0.609 ok	0.610	0.550-0.670
Vinyl Acetate	6.89	7.59	0.908 ok	0.909	0.849-0.969
m,p-Xylene	14.00	13.40	1.045 ok	1.045	0.985-1.105
o-Xylene	14.51	13.40	1.083 ok	1.083	1.023-1.143

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.59 ok	7.56	7.23-7.89	125021	ok 126098	75659-176537
1,4-Difluorobenzene	9.23 ok	9.20	8.87-9.53	633715	ok 621202	372721-869683
Chlorobenzene-D5	13.40 ok	13.37	13.04-13.70	313388	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	19.36	13.38	1.447 ok	1.448	1.388-1.508

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.57 ok	7.56	7.23-7.89	126806	ok 126098	75659-176537
1,4-Difluorobenzene	9.20 ok	9.20	8.87-9.53	595241	ok 621202	372721-869683
Chlorobenzene-D5	13.38 ok	13.37	13.04-13.70	263185	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	19.36	13.37	1.448 ok	1.448	1.388-1.508

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.56	7.23-7.89	131208	ok 126098	75659-176537
1,4-Difluorobenzene	9.20 ok	9.20	8.87-9.53	639973	ok 621202	372721-869683
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	275674	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	19.36	13.37	1.448 ok	1.448	1.388-1.508

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.56	7.23-7.89	127920	ok	126098
1,4-Difluorobenzene	9.20 ok	9.20	8.87-9.53	639792	ok	621202
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	279986	ok	267439

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	19.36	13.37	1.448 ok	1.448	1.388-1.508

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.56	7.23-7.89	120070	ok 126098	75659-176537
1,4-Difluorobenzene	9.20 ok	9.20	8.87-9.53	595950	ok 621202	372721-869683
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	272405	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.41	7.55	0.717	ok 0.713	0.653-0.773
1,3-Butadiene	4.68	7.55	0.620	ok 0.621	0.561-0.681
Benzene	8.88	9.19	0.966	ok 0.966	0.906-1.026
Bromodichloromethane	9.79	9.19	1.065	ok 1.065	1.005-1.125
Bromoform	14.08	13.37	1.053	ok 1.053	0.993-1.113
Bromomethane	4.87	7.55	0.645	ok 0.645	0.585-0.705
Bromoethene	5.19	7.55	0.687	ok 0.687	0.627-0.747
n-Butane	4.71	7.55	0.624	ok 0.623	0.563-0.683
Benzyl Chloride	16.67	13.37	1.247	ok 1.247	1.187-1.307
n-Butylbenzene	17.50	13.37	1.309	ok 1.309	1.249-1.369
sec-Butylbenzene	16.79	13.37	1.256	ok 1.256	1.196-1.316
tert-Butylbenzene	16.47	13.37	1.232	ok 1.231	1.171-1.291
Carbon disulfide	6.16	7.55	0.816	ok 0.815	0.755-0.875
Chlorobenzene	13.41	13.37	1.003	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.31	7.55	0.571	ok 0.571	0.511-0.631
Chloroethane	4.96	7.55	0.657	ok 0.657	0.597-0.717
Chloroform	7.63	7.55	1.011	ok 1.012	0.952-1.072
Chloromethane	4.48	7.55	0.593	ok 0.592	0.532-0.652
3-Chloropropene	6.02	7.55	0.797	ok 0.797	0.737-0.857
2-Chlorotoluene	15.68	13.37	1.173	ok 1.173	1.113-1.233
Carbon tetrachloride	9.00	7.55	1.192	ok 1.191	1.131-1.251
Cyclohexane	9.05	9.19	0.985	ok 0.984	0.924-1.044
1,1-Dichloroethane	6.74	7.55	0.893	ok 0.893	0.833-0.953
1,1-Dichloroethylene	5.86	7.55	0.776	ok 0.776	0.716-0.836
1,2-Dibromoethane	12.22	13.37	0.914	ok 0.914	0.854-0.974
1,2-Dichloroethane	8.25	7.55	1.093	ok 1.092	1.032-1.152
1,2-Dichloropropane	9.58	9.19	1.042	ok 1.041	0.981-1.101
1,4-Dioxane	10.03	9.19	1.091	ok 1.081	1.021-1.141
Dichlorodifluoromethane	4.37	7.55	0.579	ok 0.578	0.518-0.638
Dibromochloromethane	12.00	13.37	0.898	ok 0.898	0.838-0.958
trans-1,2-Dichloroethylene	6.58	7.55	0.872	ok 0.871	0.811-0.931
cis-1,2-Dichloroethylene	7.44	7.55	0.985	ok 0.984	0.924-1.044
cis-1,3-Dichloropropene	10.65	9.19	1.159	ok 1.157	1.097-1.217
m-Dichlorobenzene	16.67	13.37	1.247	ok 1.247	1.187-1.307

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	17.18	13.37	1.285	ok 1.285	1.225-1.345
p-Dichlorobenzene	16.76	13.37	1.254	ok 1.253	1.193-1.313
trans-1,3-Dichloropropene	11.14	9.19	1.212	ok 1.212	1.152-1.272
Di-Isopropyl ether	7.54	7.55	0.999	ok 0.996	0.936-1.056
2,3-Dimethylpentane	9.22	9.19	1.003	ok 1.003	0.943-1.063
2,4-Dimethylpentane	8.21	7.55	1.087	ok 1.085	1.025-1.145
Ethanol	5.14	7.55	0.681	ok 0.678	0.618-0.738
Ethylbenzene	13.78	13.37	1.031	ok 1.031	0.971-1.091
Ethyl Acetate	7.62	7.55	1.009	ok 1.003	0.943-1.063
4-Ethyltoluene	15.88	13.37	1.188	ok 1.188	1.128-1.248
Freon 113	6.10	7.55	0.808	ok 0.808	0.748-0.868
Freon 114	4.53	7.55	0.600	ok 0.599	0.539-0.659
Freon 123	5.26	7.55	0.697	ok 0.696	0.636-0.756
Freon 123A	5.29	7.55	0.701	ok 0.701	0.641-0.761
Freon 152A	4.28	7.55	0.567	ok 0.566	0.506-0.626
Heptane	9.99	9.19	1.087	ok 1.087	1.027-1.147
Hexachlorobutadiene	19.77	13.37	1.479	ok 1.478	1.418-1.538
Hexane	7.47	7.55	0.989	ok 0.990	0.930-1.050
2-Hexanone	11.91	13.37	0.891	ok 0.888	0.828-0.948
Iodomethane	5.82	7.55	0.771	ok 0.770	0.710-0.830
Isopropylbenzene	15.12	13.37	1.131	ok 1.131	1.071-1.191
Isopropyl Alcohol	5.61	7.55	0.743	ok 0.737	0.677-0.797
p-Isopropyltoluene	16.98	13.37	1.270	ok 1.270	1.210-1.330
Methylene chloride	5.96	7.55	0.789	ok 0.789	0.729-0.849
Methyl ethyl ketone	7.12	7.55	0.943	ok 0.938	0.878-0.998
Methyl Isobutyl Ketone	10.72	9.19	1.166	ok 1.162	1.102-1.222
Methyl Tert Butyl Ether	6.83	7.55	0.905	ok 0.900	0.840-0.960
Methylmethacrylate	10.04	9.19	1.092	ok 1.092	1.032-1.152
Nonane	14.66	13.37	1.096	ok 1.096	1.036-1.156
Octane	12.47	13.37	0.933	ok 0.933	0.873-0.993
Pentane	5.62	7.55	0.744	ok 0.745	0.685-0.805
n-Propylbenzene	15.71	13.37	1.175	ok 1.175	1.115-1.235
Propylene	4.32	7.55	0.572	ok 0.572	0.512-0.632
Styrene	14.37	13.37	1.075	ok 1.075	1.015-1.135

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15 Reporting this level
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	8.46	7.55	1.121 ok	1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	13.40	13.37	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.50	13.37	1.085 ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.30	9.19	1.230 ok	1.229	1.169-1.289
1,2,4-Trichlorobenzene	19.22	13.37	1.438 ok	1.437	1.377-1.497
1,2,3-Trichloropropane	14.62	13.37	1.093 ok	1.094	1.034-1.154
1,2,4-Trimethylbenzene	16.47	13.37	1.232 ok	1.232	1.172-1.292
1,3,5-Trimethylbenzene	15.98	13.37	1.195 ok	1.195	1.135-1.255
2,2,4-Trimethylpentane	9.74	9.19	1.060 ok	1.059	0.999-1.119
Tertiary Butyl Alcohol	6.03	7.55	0.799 ok	0.794	0.734-0.854
Tetrachloroethylene	12.69	13.37	0.949 ok	0.949	0.889-1.009
Tetrahydrofuran	8.09	7.55	1.072 ok	1.064	1.004-1.124
Toluene	11.56	9.19	1.258 ok	1.257	1.197-1.317
Trichloroethylene	9.81	9.19	1.067 ok	1.067	1.007-1.127
Trichlorofluoromethane	5.44	7.55	0.721 ok	0.720	0.660-0.780
Vinyl chloride	4.61	7.55	0.611 ok	0.610	0.550-0.670
Vinyl Acetate	6.87	7.55	0.910 ok	0.909	0.849-0.969
m,p-Xylene	13.97	13.37	1.045 ok	1.045	0.985-1.105
o-Xylene	14.48	13.37	1.083 ok	1.083	1.023-1.143

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.55 ok	7.56	7.23-7.89	122105	ok 126098	75659-176537
1,4-Difluorobenzene	9.19 ok	9.20	8.87-9.53	585920	ok 621202	372721-869683
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	212921	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15 Reporting this level
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.37	7.56	0.710	ok 0.713	0.653-0.773
1,3-Butadiene	4.69	7.56	0.620	ok 0.621	0.561-0.681
Benzene	8.88	9.19	0.966	ok 0.966	0.906-1.026
Bromodichloromethane	9.79	9.19	1.065	ok 1.065	1.005-1.125
Bromoform	14.08	13.37	1.053	ok 1.053	0.993-1.113
Bromomethane	4.87	7.56	0.644	ok 0.645	0.585-0.705
Bromoethene	5.19	7.56	0.687	ok 0.687	0.627-0.747
n-Butane	4.71	7.56	0.623	ok 0.623	0.563-0.683
Benzyl Chloride	16.67	13.37	1.247	ok 1.247	1.187-1.307
n-Butylbenzene	17.50	13.37	1.309	ok 1.309	1.249-1.369
sec-Butylbenzene	16.80	13.37	1.257	ok 1.256	1.196-1.316
tert-Butylbenzene	16.46	13.37	1.231	ok 1.231	1.171-1.291
Carbon disulfide	6.16	7.56	0.815	ok 0.815	0.755-0.875
Chlorobenzene	13.41	13.37	1.003	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.31	7.56	0.570	ok 0.571	0.511-0.631
Chloroethane	4.96	7.56	0.656	ok 0.657	0.597-0.717
Chloroform	7.64	7.56	1.011	ok 1.012	0.952-1.072
Chloromethane	4.48	7.56	0.593	ok 0.592	0.532-0.652
3-Chloropropene	6.02	7.56	0.796	ok 0.797	0.737-0.857
2-Chlorotoluene	15.69	13.37	1.174	ok 1.173	1.113-1.233
Carbon tetrachloride	9.01	7.56	1.192	ok 1.191	1.131-1.251
Cyclohexane	9.05	9.19	0.985	ok 0.984	0.924-1.044
1,1-Dichloroethane	6.75	7.56	0.893	ok 0.893	0.833-0.953
1,1-Dichloroethylene	5.86	7.56	0.775	ok 0.776	0.716-0.836
1,2-Dibromoethane	12.22	13.37	0.914	ok 0.914	0.854-0.974
1,2-Dichloroethane	8.25	7.56	1.091	ok 1.092	1.032-1.152
1,2-Dichloropropane	9.57	9.19	1.041	ok 1.041	0.981-1.101
1,4-Dioxane	9.92	9.19	1.079	ok 1.081	1.021-1.141
Dichlorodifluoromethane	4.37	7.56	0.578	ok 0.578	0.518-0.638
Dibromochloromethane	12.01	13.37	0.898	ok 0.898	0.838-0.958
trans-1,2-Dichloroethylene	6.59	7.56	0.872	ok 0.871	0.811-0.931
cis-1,2-Dichloroethylene	7.43	7.56	0.983	ok 0.984	0.924-1.044
cis-1,3-Dichloropropene	10.64	9.19	1.158	ok 1.157	1.097-1.217
m-Dichlorobenzene	16.67	13.37	1.247	ok 1.247	1.187-1.307

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15 Reporting this level
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	17.18	13.37	1.285	ok 1.285	1.225-1.345
p-Dichlorobenzene	16.76	13.37	1.254	ok 1.253	1.193-1.313
trans-1,3-Dichloropropene	11.14	9.19	1.212	ok 1.212	1.152-1.272
Di-Isopropyl ether	7.51	7.56	0.993	ok 0.996	0.936-1.056
2,3-Dimethylpentane	9.23	9.19	1.004	ok 1.003	0.943-1.063
2,4-Dimethylpentane	8.20	7.56	1.085	ok 1.085	1.025-1.145
Ethanol	5.09	7.56	0.673	ok 0.678	0.618-0.738
Ethylbenzene	13.78	13.37	1.031	ok 1.031	0.971-1.091
Ethyl Acetate	7.58	7.56	1.003	ok 1.003	0.943-1.063
4-Ethyltoluene	15.88	13.37	1.188	ok 1.188	1.128-1.248
Freon 113	6.11	7.56	0.808	ok 0.808	0.748-0.868
Freon 114	4.53	7.56	0.599	ok 0.599	0.539-0.659
Freon 123	5.26	7.56	0.696	ok 0.696	0.636-0.756
Freon 123A	5.30	7.56	0.701	ok 0.701	0.641-0.761
Freon 152A	4.28	7.56	0.566	ok 0.566	0.506-0.626
Heptane	9.99	9.19	1.087	ok 1.087	1.027-1.147
Hexachlorobutadiene	19.77	13.37	1.479	ok 1.478	1.418-1.538
Hexane	7.48	7.56	0.989	ok 0.990	0.930-1.050
2-Hexanone	11.85	13.37	0.886	ok 0.888	0.828-0.948
Iodomethane	5.82	7.56	0.770	ok 0.770	0.710-0.830
Isopropylbenzene	15.12	13.37	1.131	ok 1.131	1.071-1.191
Isopropyl Alcohol	5.54	7.56	0.733	ok 0.737	0.677-0.797
p-Isopropyltoluene	16.98	13.37	1.270	ok 1.270	1.210-1.330
Methylene chloride	5.96	7.56	0.788	ok 0.789	0.729-0.849
Methyl ethyl ketone	7.07	7.56	0.935	ok 0.938	0.878-0.998
Methyl Isobutyl Ketone	10.66	9.19	1.160	ok 1.162	1.102-1.222
Methyl Tert Butyl Ether	6.78	7.56	0.897	ok 0.900	0.840-0.960
Methylmethacrylate	10.03	9.19	1.091	ok 1.092	1.032-1.152
Nonane	14.66	13.37	1.096	ok 1.096	1.036-1.156
Octane	12.48	13.37	0.933	ok 0.933	0.873-0.993
Pentane	5.63	7.56	0.745	ok 0.745	0.685-0.805
n-Propylbenzene	15.71	13.37	1.175	ok 1.175	1.115-1.235
Propylene	4.32	7.56	0.571	ok 0.572	0.512-0.632
Styrene	14.37	13.37	1.075	ok 1.075	1.015-1.135

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15 Reporting this level
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	8.46	7.56	1.119 ok	1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	13.39	13.37	1.001 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.50	13.37	1.085 ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.30	9.19	1.230 ok	1.229	1.169-1.289
1,2,4-Trichlorobenzene	19.22	13.37	1.438 ok	1.437	1.377-1.497
1,2,3-Trichloropropane	14.62	13.37	1.093 ok	1.094	1.034-1.154
1,2,4-Trimethylbenzene	16.47	13.37	1.232 ok	1.232	1.172-1.292
1,3,5-Trimethylbenzene	15.98	13.37	1.195 ok	1.195	1.135-1.255
2,2,4-Trimethylpentane	9.75	9.19	1.061 ok	1.059	0.999-1.119
Tertiary Butyl Alcohol	5.94	7.56	0.786 ok	0.794	0.734-0.854
Tetrachloroethylene	12.70	13.37	0.950 ok	0.949	0.889-1.009
Tetrahydrofuran	8.01	7.56	1.060 ok	1.064	1.004-1.124
Toluene	11.56	9.19	1.258 ok	1.257	1.197-1.317
Trichloroethylene	9.81	9.19	1.067 ok	1.067	1.007-1.127
Trichlorofluoromethane	5.44	7.56	0.720 ok	0.720	0.660-0.780
Vinyl chloride	4.60	7.56	0.608 ok	0.610	0.550-0.670
Vinyl Acetate	6.86	7.56	0.907 ok	0.909	0.849-0.969
m,p-Xylene	13.97	13.37	1.045 ok	1.045	0.985-1.105
o-Xylene	14.48	13.37	1.083 ok	1.083	1.023-1.143

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.56	7.23-7.89	157191	ok 126098	75659-176537
1,4-Difluorobenzene	9.19 ok	9.20	8.87-9.53	795574	ok 621202	372721-869683
Chlorobenzene-D5	13.37 ok	13.37	13.04-13.70	353147	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.37	7.57	0.709	ok 0.713	0.653-0.773
1,3-Butadiene	4.70	7.57	0.621	ok 0.621	0.561-0.681
Benzene	8.89	9.21	0.965	ok 0.966	0.906-1.026
Bromodichloromethane	9.81	9.21	1.065	ok 1.065	1.005-1.125
Bromoform	14.09	13.38	1.053	ok 1.053	0.993-1.113
Bromomethane	4.88	7.57	0.645	ok 0.645	0.585-0.705
Bromoethene	5.20	7.57	0.687	ok 0.687	0.627-0.747
n-Butane	4.72	7.57	0.624	ok 0.623	0.563-0.683
Benzyl Chloride	16.68	13.38	1.247	ok 1.247	1.187-1.307
n-Butylbenzene	17.50	13.38	1.308	ok 1.309	1.249-1.369
sec-Butylbenzene	16.80	13.38	1.256	ok 1.256	1.196-1.316
tert-Butylbenzene	16.47	13.38	1.231	ok 1.231	1.171-1.291
Carbon disulfide	6.17	7.57	0.815	ok 0.815	0.755-0.875
Chlorobenzene	13.43	13.38	1.004	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.31	7.57	0.569	ok 0.571	0.511-0.631
Chloroethane	4.97	7.57	0.657	ok 0.657	0.597-0.717
Chloroform	7.66	7.57	1.012	ok 1.012	0.952-1.072
Chloromethane	4.48	7.57	0.592	ok 0.592	0.532-0.652
3-Chloropropene	6.03	7.57	0.797	ok 0.797	0.737-0.857
2-Chlorotoluene	15.70	13.38	1.173	ok 1.173	1.113-1.233
Carbon tetrachloride	9.02	7.57	1.192	ok 1.191	1.131-1.251
Cyclohexane	9.06	9.21	0.984	ok 0.984	0.924-1.044
1,1-Dichloroethane	6.76	7.57	0.893	ok 0.893	0.833-0.953
1,1-Dichloroethylene	5.88	7.57	0.777	ok 0.776	0.716-0.836
1,2-Dibromoethane	12.22	13.38	0.913	ok 0.914	0.854-0.974
1,2-Dichloroethane	8.27	7.57	1.092	ok 1.092	1.032-1.152
1,2-Dichloropropane	9.59	9.21	1.041	ok 1.041	0.981-1.101
1,4-Dioxane	9.91	9.21	1.076	ok 1.081	1.021-1.141
Dichlorodifluoromethane	4.37	7.57	0.577	ok 0.578	0.518-0.638
Dibromochloromethane	12.01	13.38	0.898	ok 0.898	0.838-0.958
trans-1,2-Dichloroethylene	6.59	7.57	0.871	ok 0.871	0.811-0.931
cis-1,2-Dichloroethylene	7.45	7.57	0.984	ok 0.984	0.924-1.044
cis-1,3-Dichloropropene	10.65	9.21	1.156	ok 1.157	1.097-1.217
m-Dichlorobenzene	16.67	13.38	1.246	ok 1.247	1.187-1.307

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	17.19	13.38	1.285	ok 1.285	1.225-1.345
p-Dichlorobenzene	16.77	13.38	1.253	ok 1.253	1.193-1.313
trans-1,3-Dichloropropene	11.16	9.21	1.212	ok 1.212	1.152-1.272
Di-Isopropyl ether	7.51	7.57	0.992	ok 0.996	0.936-1.056
2,3-Dimethylpentane	9.24	9.21	1.003	ok 1.003	0.943-1.063
2,4-Dimethylpentane	8.21	7.57	1.085	ok 1.085	1.025-1.145
Ethanol	5.11	7.57	0.675	ok 0.678	0.618-0.738
Ethylbenzene	13.79	13.38	1.031	ok 1.031	0.971-1.091
Ethyl Acetate	7.59	7.57	1.003	ok 1.003	0.943-1.063
4-Ethyltoluene	15.89	13.38	1.188	ok 1.188	1.128-1.248
Freon 113	6.11	7.57	0.807	ok 0.808	0.748-0.868
Freon 114	4.54	7.57	0.600	ok 0.599	0.539-0.659
Freon 123	5.27	7.57	0.696	ok 0.696	0.636-0.756
Freon 123A	5.31	7.57	0.701	ok 0.701	0.641-0.761
Freon 152A	4.28	7.57	0.565	ok 0.566	0.506-0.626
Heptane	10.01	9.21	1.087	ok 1.087	1.027-1.147
Hexachlorobutadiene	19.77	13.38	1.478	ok 1.478	1.418-1.538
Hexane	7.49	7.57	0.989	ok 0.990	0.930-1.050
2-Hexanone	11.86	13.38	0.886	ok 0.888	0.828-0.948
Iodomethane	5.83	7.57	0.770	ok 0.770	0.710-0.830
Isopropylbenzene	15.13	13.38	1.131	ok 1.131	1.071-1.191
Isopropyl Alcohol	5.56	7.57	0.734	ok 0.737	0.677-0.797
p-Isopropyltoluene	16.99	13.38	1.270	ok 1.270	1.210-1.330
Methylene chloride	5.97	7.57	0.789	ok 0.789	0.729-0.849
Methyl ethyl ketone	7.07	7.57	0.934	ok 0.938	0.878-0.998
Methyl Isobutyl Ketone	10.67	9.21	1.159	ok 1.162	1.102-1.222
Methyl Tert Butyl Ether	6.79	7.57	0.897	ok 0.900	0.840-0.960
Methylmethacrylate	10.04	9.21	1.090	ok 1.092	1.032-1.152
Nonane	14.67	13.38	1.096	ok 1.096	1.036-1.156
Octane	12.48	13.38	0.933	ok 0.933	0.873-0.993
Pentane	5.64	7.57	0.745	ok 0.745	0.685-0.805
n-Propylbenzene	15.72	13.38	1.175	ok 1.175	1.115-1.235
Propylene	4.33	7.57	0.572	ok 0.572	0.512-0.632
Styrene	14.39	13.38	1.075	ok 1.075	1.015-1.135

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W821-IC821	3W20778.D	02/15/11 18:24	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20779.D	02/15/11 21:02	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20780.D	02/15/11 22:21	YXC	0.1	GCMS3W	TO-15
V3W821-IC821	3W20781.D	02/15/11 23:00	YXC	0.04	GCMS3W	TO-15
V3W821-IC821	3W20782.D	02/16/11 00:20	YXC	10	GCMS3W	TO-15
V3W821-IC821	3W20783.D	02/16/11 01:00	YXC	5	GCMS3W	TO-15
V3W821-IC821	3W20784.D	02/16/11 01:44	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20785.D	02/16/11 02:23	YXC	0.5	GCMS3W	TO-15
V3W821-IC821	3W20786.D	02/16/11 03:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20787.D	02/16/11 04:22	YXC	20	GCMS3W	TO-15
V3W821-IC821	3W20788.D	02/16/11 05:06	YXC	40	GCMS3W	TO-15
V3W821-IC821	3W20789.D	02/16/11 07:02	YXC	0.2	GCMS3W	TO-15
V3W821-IC821	3W20790.D	02/16/11 10:32	YXC	5	GCMS3W	TO-15
V3W821-ICC821	3W20791.D	02/16/11 11:55	YXC	10	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	8.47	7.57	1.119 ok	1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	13.40	13.38	1.001 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.51	13.38	1.084 ok	1.085	1.025-1.145
1,1,2-Trichloroethane	11.32	9.21	1.229 ok	1.229	1.169-1.289
1,2,4-Trichlorobenzene	19.22	13.38	1.436 ok	1.437	1.377-1.497
1,2,3-Trichloropropane	14.64	13.38	1.094 ok	1.094	1.034-1.154
1,2,4-Trimethylbenzene	16.48	13.38	1.232 ok	1.232	1.172-1.292
1,3,5-Trimethylbenzene	15.99	13.38	1.195 ok	1.195	1.135-1.255
2,2,4-Trimethylpentane	9.75	9.21	1.059 ok	1.059	0.999-1.119
Tertiary Butyl Alcohol	5.96	7.57	0.787 ok	0.794	0.734-0.854
Tetrachloroethylene	12.70	13.38	0.949 ok	0.949	0.889-1.009
Tetrahydrofuran	8.01	7.57	1.058 ok	1.064	1.004-1.124
Toluene	11.57	9.21	1.256 ok	1.257	1.197-1.317
Trichloroethylene	9.82	9.21	1.066 ok	1.067	1.007-1.127
Trichlorofluoromethane	5.45	7.57	0.720 ok	0.720	0.660-0.780
Vinyl chloride	4.62	7.57	0.610 ok	0.610	0.550-0.670
Vinyl Acetate	6.87	7.57	0.908 ok	0.909	0.849-0.969
m,p-Xylene	13.97	13.38	1.044 ok	1.045	0.985-1.105
o-Xylene	14.48	13.38	1.082 ok	1.083	1.023-1.143

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.57 ok	7.56	7.23-7.89	121224	ok 126098	75659-176537
1,4-Difluorobenzene	9.21 ok	9.20	8.87-9.53	620189	ok 621202	372721-869683
Chlorobenzene-D5	13.38 ok	13.37	13.04-13.70	283614	ok 267439	160463-374415

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15	Reporting this level
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15	
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15	
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15	
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15	
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15	
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15	
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	6.33	8.82	0.718 ok	0.718	0.658-0.778
Acrolein	6.22	8.82	0.705 ok	0.706	0.646-0.766
1,3-Butadiene	5.51	8.82	0.625 ok	0.623	0.563-0.683
Benzene	10.21	10.50	0.972 ok	0.972	0.912-1.032
Bromodichloromethane	11.13	10.50	1.060 ok	1.061	1.001-1.121
Bromoform	15.47	14.73	1.050 ok	1.050	0.990-1.110
Bromomethane	5.73	8.82	0.650 ok	0.649	0.589-0.709
Bromoethene	6.14	8.82	0.696 ok	0.695	0.635-0.755
n-Butane	5.55	8.82	0.629 ok	0.627	0.567-0.687
Benzyl Chloride	17.94	14.73	1.218 ok	1.218	1.158-1.278
n-Butylbenzene	18.73	14.73	1.272 ok	1.272	1.212-1.332
sec-Butylbenzene	18.08	14.73	1.227 ok	1.227	1.167-1.287
tert-Butylbenzene	17.77	14.73	1.206 ok	1.206	1.146-1.266
Carbon disulfide	7.33	8.82	0.831 ok	0.830	0.770-0.890
Chlorobenzene	14.78	14.73	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.98	8.82	0.565 ok	0.563	0.503-0.623
Chloroethane	5.86	8.82	0.664 ok	0.663	0.603-0.723
Chloroform	8.92	8.82	1.011 ok	1.012	0.952-1.072
Chloromethane	5.22	8.82	0.592 ok	0.590	0.530-0.650
3-Chloropropene	7.14	8.82	0.810 ok	0.809	0.749-0.869
2-Chlorotoluene	17.04	14.73	1.157 ok	1.157	1.097-1.217
Carbon tetrachloride	10.34	8.82	1.172 ok	1.174	1.114-1.234
Cyclohexane	10.45	10.50	0.995 ok	0.996	0.936-1.056
1,1-Dichloroethane	7.97	8.82	0.904 ok	0.904	0.844-0.964
1,1-Dichloroethylene	6.96	8.82	0.789 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.61	14.73	0.924 ok	0.924	0.864-0.984
1,2-Dichloroethane	9.57	8.82	1.085 ok	1.086	1.026-1.146
1,2-Dichloropropane	10.95	10.50	1.043 ok	1.043	0.983-1.103
1,4-Dioxane	11.19	10.50	1.066 ok	1.071	1.011-1.131
Dichlorodifluoromethane	5.07	8.82	0.575 ok	0.573	0.513-0.633
Dibromochloromethane	13.37	14.73	0.908 ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.80	8.82	0.884 ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	8.66	8.82	0.982 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.97	10.50	1.140 ok	1.141	1.081-1.201
m-Dichlorobenzene	17.96	14.73	1.219 ok	1.219	1.159-1.279
o-Dichlorobenzene	18.42	14.73	1.251 ok	1.251	1.191-1.311
p-Dichlorobenzene	18.03	14.73	1.224 ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.47	10.50	1.188 ok	1.189	1.129-1.249
Di-Isopropyl ether	8.80	8.82	0.998 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.64	10.50	1.013 ok	1.013	0.953-1.073

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1222-ICC1222	W29766.D	01/19/11 17:47	YM	10	GCMSW	TO-15	Reporting this level
VW1222-IC1222	W29770.D	01/19/11 21:46	YM	20	GCMSW	TO-15	
VW1222-IC1222	W29771.D	01/19/11 22:26	YM	5	GCMSW	TO-15	
VW1222-IC1222	W29774.D	01/20/11 01:46	YM	40	GCMSW	TO-15	
VW1222-IC1222	W29775.D	01/20/11 06:34	YM	0.5	GCMSW	TO-15	
VW1222-IC1222	W29776.D	01/20/11 07:15	YM	0.2	GCMSW	TO-15	
VW1222-IC1222	W29777.D	01/20/11 11:23	YM	0.1	GCMSW	TO-15	
VW1222-IC1222	W29778.D	01/20/11 12:02	YM	0.04	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
2,4-Dimethylpentane	9.58	8.82	1.086 ok	1.088	1.028-1.148
Ethanol	5.97	8.82	0.677 ok	0.677	0.617-0.737
Ethylbenzene	15.17	14.73	1.030 ok	1.029	0.969-1.089
Ethyl Acetate	8.83	8.82	1.001 ok	1.002	0.942-1.062
4-Ethyltoluene	17.23	14.73	1.170 ok	1.170	1.110-1.230
Freon 113	7.24	8.82	0.821 ok	0.821	0.761-0.881
Freon 114	5.29	8.82	0.600 ok	0.598	0.538-0.658
Freon 123	6.23	8.82	0.706 ok	0.705	0.645-0.765
Freon 123A	6.27	8.82	0.711 ok	0.710	0.650-0.770
Freon 152A	4.94	8.82	0.560 ok	0.560	0.500-0.620
Heptane	11.41	10.50	1.087 ok	1.087	1.027-1.147
Hexachlorobutadiene	20.87	14.73	1.417 ok	1.417	1.357-1.477
Hexane	8.82	8.82	1.000 ok	1.000	0.940-1.060
2-Hexanone	13.19	14.73	0.895 ok	0.896	0.836-0.956
Iodomethane	6.92	8.82	0.785 ok	0.783	0.723-0.843
Isopropylbenzene	16.51	14.73	1.121 ok	1.121	1.061-1.181
Isopropyl Alcohol	6.52	8.82	0.739 ok	0.743	0.683-0.803
p-Isopropyltoluene	18.26	14.73	1.240 ok	1.239	1.179-1.299
Methylene chloride	7.05	8.82	0.799 ok	0.799	0.739-0.859
Methyl ethyl ketone	8.29	8.82	0.940 ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.00	10.50	1.143 ok	1.146	1.086-1.206
Methyl Tert Butyl Ether	8.00	8.82	0.907 ok	0.909	0.849-0.969
Methylmethacrylate	11.33	10.50	1.079 ok	1.080	1.020-1.140
Nonane	16.07	14.73	1.091 ok	1.091	1.031-1.151
Octane	13.88	14.73	0.942 ok	0.942	0.882-1.002
Pentane	6.72	8.82	0.762 ok	0.762	0.702-0.822
n-Propylbenzene	17.07	14.73	1.159 ok	1.159	1.099-1.219
Propylene	5.01	8.82	0.568 ok	0.567	0.507-0.627
Styrene	15.75	14.73	1.069 ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.79	8.82	1.110 ok	1.111	1.051-1.171
1,1,1,2-Tetrachloroethane	14.76	14.73	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.87	14.73	1.077 ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.66	10.50	1.206 ok	1.207	1.147-1.267
1,2,4-Trichlorobenzene	20.36	14.73	1.382 ok	1.382	1.322-1.442
1,2,3-Trichloropropane	16.01	14.73	1.087 ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.78	14.73	1.207 ok	1.207	1.147-1.267
1,3,5-Trimethylbenzene	17.32	14.73	1.176 ok	1.176	1.116-1.236
2,2,4-Trimethylpentane	11.17	10.50	1.064 ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	6.99	8.82	0.793 ok	0.798	0.738-0.858
Tetrachloroethylene	14.07	14.73	0.955 ok	0.955	0.895-1.015

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1222-ICC1222	W29766.D	01/19/11 17:47	YM	10	GCMSW	TO-15	Reporting this level
VW1222-IC1222	W29770.D	01/19/11 21:46	YM	20	GCMSW	TO-15	
VW1222-IC1222	W29771.D	01/19/11 22:26	YM	5	GCMSW	TO-15	
VW1222-IC1222	W29774.D	01/20/11 01:46	YM	40	GCMSW	TO-15	
VW1222-IC1222	W29775.D	01/20/11 06:34	YM	0.5	GCMSW	TO-15	
VW1222-IC1222	W29776.D	01/20/11 07:15	YM	0.2	GCMSW	TO-15	
VW1222-IC1222	W29777.D	01/20/11 11:23	YM	0.1	GCMSW	TO-15	
VW1222-IC1222	W29778.D	01/20/11 12:02	YM	0.04	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Tetrahydrofuran	9.28	8.82	1.052 ok	1.057	0.997-1.117
Toluene	12.93	10.50	1.231 ok	1.233	1.173-1.293
Trichloroethylene	11.16	10.50	1.063 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.46	8.82	0.732 ok	0.732	0.672-0.792
Vinyl chloride	5.40	8.82	0.612 ok	0.611	0.551-0.671
Vinyl Acetate	8.06	8.82	0.914 ok	0.915	0.855-0.975
m,p-Xylene	15.36	14.73	1.043 ok	1.042	0.982-1.102
o-Xylene	15.87	14.73	1.077 ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.72	8.82	0.762 ok	0.762	0.702-0.822
TVHC As Equiv Heptane	11.41	10.50	1.087 ok	1.087	1.027-1.147

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.82 ok	8.79	8.46-9.12	86606 ok	78106	46864-109348
1,4-Difluorobenzene	10.50 ok	10.48	10.15-10.81	448526 ok	377650	226590-528710
Chlorobenzene-D5	14.73 ok	14.73	14.40-15.06	248549 ok	202605	121563-283647

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	6.38	8.85	0.721 ok	0.718	0.658-0.778
Acrolein	6.29	8.85	0.711 ok	0.706	0.646-0.766
1,3-Butadiene	5.57	8.85	0.629 ok	0.623	0.563-0.683
Benzene	10.24	10.53	0.972 ok	0.972	0.912-1.032
Bromodichloromethane	11.16	10.53	1.060 ok	1.061	1.001-1.121
Bromoform	15.49	14.75	1.050 ok	1.050	0.990-1.110
Bromomethane	5.79	8.85	0.654 ok	0.649	0.589-0.709
Bromoethene	6.19	8.85	0.699 ok	0.695	0.635-0.755
n-Butane	5.60	8.85	0.633 ok	0.627	0.567-0.687
Benzyl Chloride	17.95	14.75	1.217 ok	1.218	1.158-1.278
n-Butylbenzene	18.74	14.75	1.271 ok	1.272	1.212-1.332
sec-Butylbenzene	18.09	14.75	1.226 ok	1.227	1.167-1.287
tert-Butylbenzene	17.78	14.75	1.205 ok	1.206	1.146-1.266
Carbon disulfide	7.37	8.85	0.833 ok	0.830	0.770-0.890
Chlorobenzene	14.80	14.75	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	5.04	8.85	0.569 ok	0.563	0.503-0.623
Chloroethane	5.91	8.85	0.668 ok	0.663	0.603-0.723
Chloroform	8.96	8.85	1.012 ok	1.012	0.952-1.072
Chloromethane	5.27	8.85	0.595 ok	0.590	0.530-0.650
3-Chloropropene	7.19	8.85	0.812 ok	0.809	0.749-0.869
2-Chlorotoluene	17.06	14.75	1.157 ok	1.157	1.097-1.217
Carbon tetrachloride	10.37	8.85	1.172 ok	1.174	1.114-1.234
Cyclohexane	10.48	10.53	0.995 ok	0.996	0.936-1.056
1,1-Dichloroethane	8.02	8.85	0.906 ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.00	8.85	0.791 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.64	14.75	0.925 ok	0.924	0.864-0.984
1,2-Dichloroethane	9.60	8.85	1.085 ok	1.086	1.026-1.146
1,2-Dichloropropane	10.98	10.53	1.043 ok	1.043	0.983-1.103
1,4-Dioxane	11.22	10.53	1.066 ok	1.071	1.011-1.131
Dichlorodifluoromethane	5.13	8.85	0.580 ok	0.573	0.513-0.633
Dibromochloromethane	13.39	14.75	0.908 ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.84	8.85	0.886 ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	8.71	8.85	0.984 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	12.00	10.53	1.140 ok	1.141	1.081-1.201
m-Dichlorobenzene	17.97	14.75	1.218 ok	1.219	1.159-1.279
o-Dichlorobenzene	18.44	14.75	1.250 ok	1.251	1.191-1.311
p-Dichlorobenzene	18.05	14.75	1.224 ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.50	10.53	1.187 ok	1.189	1.129-1.249
Di-Isopropyl ether	8.85	8.85	1.000 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.67	10.53	1.013 ok	1.013	0.953-1.073

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
2,4-Dimethylpentane	9.62	8.85	1.087	ok	1.088
Ethanol	6.03	8.85	0.681	ok	0.677
Ethylbenzene	15.18	14.75	1.029	ok	1.029
Ethyl Acetate	8.87	8.85	1.002	ok	1.002
4-Ethyltoluene	17.25	14.75	1.169	ok	1.170
Freon 113	7.29	8.85	0.824	ok	0.821
Freon 114	5.35	8.85	0.605	ok	0.598
Freon 123	6.29	8.85	0.711	ok	0.705
Freon 123A	6.33	8.85	0.715	ok	0.710
Freon 152A	5.01	8.85	0.566	ok	0.560
Heptane	11.43	10.53	1.085	ok	1.087
Hexachlorobutadiene	20.87	14.75	1.415	ok	1.417
Hexane	8.85	8.85	1.000	ok	1.000
2-Hexanone	13.22	14.75	0.896	ok	0.896
Iodomethane	6.97	8.85	0.788	ok	0.783
Isopropylbenzene	16.52	14.75	1.120	ok	1.121
Isopropyl Alcohol	6.60	8.85	0.746	ok	0.743
p-Isopropyltoluene	18.26	14.75	1.238	ok	1.239
Methylene chloride	7.10	8.85	0.802	ok	0.799
Methyl ethyl ketone	8.34	8.85	0.942	ok	0.942
Methyl Isobutyl Ketone	12.04	10.53	1.143	ok	1.146
Methyl Tert Butyl Ether	8.05	8.85	0.910	ok	0.909
Methylmethacrylate	11.36	10.53	1.079	ok	1.080
Nonane	16.09	14.75	1.091	ok	1.091
Octane	13.90	14.75	0.942	ok	0.942
Pentane	6.77	8.85	0.765	ok	0.762
n-Propylbenzene	17.09	14.75	1.159	ok	1.159
Propylene	5.07	8.85	0.573	ok	0.567
Styrene	15.77	14.75	1.069	ok	1.069
1,1,1-Trichloroethane	9.83	8.85	1.111	ok	1.111
1,1,1,2-Tetrachloroethane	14.78	14.75	1.002	ok	1.002
1,1,2,2-Tetrachloroethane	15.89	14.75	1.077	ok	1.077
1,1,2-Trichloroethane	12.69	10.53	1.205	ok	1.207
1,2,4-Trichlorobenzene	20.37	14.75	1.381	ok	1.382
1,2,3-Trichloropropane	16.03	14.75	1.087	ok	1.087
1,2,4-Trimethylbenzene	17.79	14.75	1.206	ok	1.207
1,3,5-Trimethylbenzene	17.33	14.75	1.175	ok	1.176
2,2,4-Trimethylpentane	11.20	10.53	1.064	ok	1.065
Tertiary Butyl Alcohol	7.07	8.85	0.799	ok	0.798
Tetrachloroethylene	14.09	14.75	0.955	ok	0.955

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Tetrahydrofuran	9.33	8.85	1.054 ok	1.057	0.997-1.117
Toluene	12.95	10.53	1.230 ok	1.233	1.173-1.293
Trichloroethylene	11.19	10.53	1.063 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.51	8.85	0.736 ok	0.732	0.672-0.792
Vinyl chloride	5.46	8.85	0.617 ok	0.611	0.551-0.671
Vinyl Acetate	8.10	8.85	0.915 ok	0.915	0.855-0.975
m,p-Xylene	15.38	14.75	1.043 ok	1.042	0.982-1.102
o-Xylene	15.89	14.75	1.077 ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.77	8.85	0.765 ok	0.762	0.702-0.822
TVHC As Equiv Heptane	11.43	10.53	1.085 ok	1.087	1.027-1.147

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.85 ok	8.79	8.46-9.12	79833 ok	78106	46864-109348
1,4-Difluorobenzene	10.53 ok	10.48	10.15-10.81	396802 ok	377650	226590-528710
Chlorobenzene-D5	14.75 ok	14.73	14.40-15.06	244631 ok	202605	121563-283647

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	6.25	8.75	0.714	ok 0.718	0.658-0.778
Acrolein	6.15	8.75	0.703	ok 0.706	0.646-0.766
1,3-Butadiene	5.42	8.75	0.619	ok 0.623	0.563-0.683
Benzene	10.16	10.46	0.971	ok 0.972	0.912-1.032
Bromodichloromethane	11.10	10.46	1.061	ok 1.061	1.001-1.121
Bromoform	15.45	14.72	1.050	ok 1.050	0.990-1.110
Bromomethane	5.65	8.75	0.646	ok 0.649	0.589-0.709
Bromoethene	6.05	8.75	0.691	ok 0.695	0.635-0.755
n-Butane	5.46	8.75	0.624	ok 0.627	0.567-0.687
Benzyl Chloride	17.93	14.72	1.218	ok 1.218	1.158-1.278
n-Butylbenzene	18.73	14.72	1.272	ok 1.272	1.212-1.332
sec-Butylbenzene	18.07	14.72	1.228	ok 1.227	1.167-1.287
tert-Butylbenzene	17.76	14.72	1.207	ok 1.206	1.146-1.266
Carbon disulfide	7.25	8.75	0.829	ok 0.830	0.770-0.890
Chlorobenzene	14.76	14.72	1.003	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.89	8.75	0.559	ok 0.563	0.503-0.623
Chloroethane	5.77	8.75	0.659	ok 0.663	0.603-0.723
Chloroform	8.86	8.75	1.013	ok 1.012	0.952-1.072
Chloromethane	5.12	8.75	0.585	ok 0.590	0.530-0.650
3-Chloropropene	7.07	8.75	0.808	ok 0.809	0.749-0.869
2-Chlorotoluene	17.03	14.72	1.157	ok 1.157	1.097-1.217
Carbon tetrachloride	10.30	8.75	1.177	ok 1.174	1.114-1.234
Cyclohexane	10.41	10.46	0.995	ok 0.996	0.936-1.056
1,1-Dichloroethane	7.90	8.75	0.903	ok 0.904	0.844-0.964
1,1-Dichloroethylene	6.88	8.75	0.786	ok 0.788	0.728-0.848
1,2-Dibromoethane	13.59	14.72	0.923	ok 0.924	0.864-0.984
1,2-Dichloroethane	9.52	8.75	1.088	ok 1.086	1.026-1.146
1,2-Dichloropropane	10.91	10.46	1.043	ok 1.043	0.983-1.103
1,4-Dioxane	11.15	10.46	1.066	ok 1.071	1.011-1.131
Dichlorodifluoromethane	4.99	8.75	0.570	ok 0.573	0.513-0.633
Dibromochloromethane	13.35	14.72	0.907	ok 0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.73	8.75	0.883	ok 0.884	0.824-0.944
cis-1,2-Dichloroethylene	8.61	8.75	0.984	ok 0.983	0.923-1.043
cis-1,3-Dichloropropene	11.94	10.46	1.141	ok 1.141	1.081-1.201
m-Dichlorobenzene	17.95	14.72	1.219	ok 1.219	1.159-1.279
o-Dichlorobenzene	18.41	14.72	1.251	ok 1.251	1.191-1.311
p-Dichlorobenzene	18.03	14.72	1.225	ok 1.224	1.164-1.284
trans-1,3-Dichloropropene	12.44	10.46	1.189	ok 1.189	1.129-1.249
Di-Isopropyl ether	8.75	8.75	1.000	ok 1.000	0.940-1.060
2,3-Dimethylpentane	10.60	10.46	1.013	ok 1.013	0.953-1.073

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
2,4-Dimethylpentane	9.53	8.75	1.089 ok	1.088	1.028-1.148
Ethanol	5.88	8.75	0.672 ok	0.677	0.617-0.737
Ethylbenzene	15.15	14.72	1.029 ok	1.029	0.969-1.089
Ethyl Acetate	8.77	8.75	1.002 ok	1.002	0.942-1.062
4-Ethyltoluene	17.22	14.72	1.170 ok	1.170	1.110-1.230
Freon 113	7.17	8.75	0.819 ok	0.821	0.761-0.881
Freon 114	5.20	8.75	0.594 ok	0.598	0.538-0.658
Freon 123	6.15	8.75	0.703 ok	0.705	0.645-0.765
Freon 123A	6.19	8.75	0.707 ok	0.710	0.650-0.770
Freon 152A	4.86	8.75	0.555 ok	0.560	0.500-0.620
Heptane	11.37	10.46	1.087 ok	1.087	1.027-1.147
Hexachlorobutadiene	20.87	14.72	1.418 ok	1.417	1.357-1.477
Hexane	8.76	8.75	1.001 ok	1.000	0.940-1.060
2-Hexanone	13.16	14.72	0.894 ok	0.896	0.836-0.956
Iodomethane	6.83	8.75	0.781 ok	0.783	0.723-0.843
Isopropylbenzene	16.50	14.72	1.121 ok	1.121	1.061-1.181
Isopropyl Alcohol	6.44	8.75	0.736 ok	0.743	0.683-0.803
p-Isopropyltoluene	18.25	14.72	1.240 ok	1.239	1.179-1.299
Methylene chloride	6.97	8.75	0.797 ok	0.799	0.739-0.859
Methyl ethyl ketone	8.23	8.75	0.941 ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	11.97	10.46	1.144 ok	1.146	1.086-1.206
Methyl Tert Butyl Ether	7.94	8.75	0.907 ok	0.909	0.849-0.969
Methylmethacrylate	11.29	10.46	1.079 ok	1.080	1.020-1.140
Nonane	16.06	14.72	1.091 ok	1.091	1.031-1.151
Octane	13.86	14.72	0.942 ok	0.942	0.882-1.002
Pentane	6.65	8.75	0.760 ok	0.762	0.702-0.822
n-Propylbenzene	17.06	14.72	1.159 ok	1.159	1.099-1.219
Propylene	4.92	8.75	0.562 ok	0.567	0.507-0.627
Styrene	15.73	14.72	1.069 ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.74	8.75	1.113 ok	1.111	1.051-1.171
1,1,1,2-Tetrachloroethane	14.74	14.72	1.001 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.85	14.72	1.077 ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.63	10.46	1.207 ok	1.207	1.147-1.267
1,2,4-Trichlorobenzene	20.36	14.72	1.383 ok	1.382	1.322-1.442
1,2,3-Trichloropropane	15.99	14.72	1.086 ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.77	14.72	1.207 ok	1.207	1.147-1.267
1,3,5-Trimethylbenzene	17.31	14.72	1.176 ok	1.176	1.116-1.236
2,2,4-Trimethylpentane	11.14	10.46	1.065 ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	6.91	8.75	0.790 ok	0.798	0.738-0.858
Tetrachloroethylene	14.05	14.72	0.954 ok	0.955	0.895-1.015

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Tetrahydrofuran	9.24	8.75	1.056 ok	1.057	0.997-1.117
Toluene	12.91	10.46	1.234 ok	1.233	1.173-1.293
Trichloroethylene	11.13	10.46	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.38	8.75	0.729 ok	0.732	0.672-0.792
Vinyl chloride	5.31	8.75	0.607 ok	0.611	0.551-0.671
Vinyl Acetate	7.99	8.75	0.913 ok	0.915	0.855-0.975
m,p-Xylene	15.34	14.72	1.042 ok	1.042	0.982-1.102
o-Xylene	15.85	14.72	1.077 ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.65	8.75	0.760 ok	0.762	0.702-0.822
TVHC As Equiv Heptane	11.37	10.46	1.087 ok	1.087	1.027-1.147

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75 ok	8.79	8.46-9.12	81658 ok	78106	46864-109348
1,4-Difluorobenzene	10.46 ok	10.48	10.15-10.81	404336 ok	377650	226590-528710
Chlorobenzene-D5	14.72 ok	14.73	14.40-15.06	210213 ok	202605	121563-283647

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.36	8.85	0.719 ok	0.718	0.658-0.778
Acrolein	6.27	8.85	0.708 ok	0.706	0.646-0.766
1,3-Butadiene	5.55	8.85	0.627 ok	0.623	0.563-0.683
Benzene	10.24	10.52	0.973 ok	0.972	0.912-1.032
Bromodichloromethane	11.16	10.52	1.061 ok	1.061	1.001-1.121
Bromoform	15.48	14.75	1.049 ok	1.050	0.990-1.110
Bromomethane	5.77	8.85	0.652 ok	0.649	0.589-0.709
Bromoethene	6.18	8.85	0.698 ok	0.695	0.635-0.755
n-Butane	5.59	8.85	0.632 ok	0.627	0.567-0.687
Benzyl Chloride	17.95	14.75	1.217 ok	1.218	1.158-1.278
n-Butylbenzene	18.74	14.75	1.271 ok	1.272	1.212-1.332
sec-Butylbenzene	18.09	14.75	1.226 ok	1.227	1.167-1.287
tert-Butylbenzene	17.78	14.75	1.205 ok	1.206	1.146-1.266
Carbon disulfide	7.36	8.85	0.832 ok	0.830	0.770-0.890
Chlorobenzene	14.79	14.75	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	5.02	8.85	0.567 ok	0.563	0.503-0.623
Chloroethane	5.91	8.85	0.668 ok	0.663	0.603-0.723
Chloroform	8.96	8.85	1.012 ok	1.012	0.952-1.072
Chloromethane	5.26	8.85	0.594 ok	0.590	0.530-0.650
3-Chloropropene	7.18	8.85	0.811 ok	0.809	0.749-0.869
2-Chlorotoluene	17.05	14.75	1.156 ok	1.157	1.097-1.217
Carbon tetrachloride	10.36	8.85	1.171 ok	1.174	1.114-1.234
Cyclohexane	10.47	10.52	0.995 ok	0.996	0.936-1.056
1,1-Dichloroethane	8.00	8.85	0.904 ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.00	8.85	0.791 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.64	14.75	0.925 ok	0.924	0.864-0.984
1,2-Dichloroethane	9.60	8.85	1.085 ok	1.086	1.026-1.146
1,2-Dichloropropane	10.97	10.52	1.043 ok	1.043	0.983-1.103
1,4-Dioxane	11.20	10.52	1.065 ok	1.071	1.011-1.131
Dichlorodifluoromethane	5.11	8.85	0.577 ok	0.573	0.513-0.633
Dibromochloromethane	13.39	14.75	0.908 ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.83	8.85	0.885 ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	8.69	8.85	0.982 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.99	10.52	1.140 ok	1.141	1.081-1.201
m-Dichlorobenzene	17.97	14.75	1.218 ok	1.219	1.159-1.279
o-Dichlorobenzene	18.43	14.75	1.249 ok	1.251	1.191-1.311
p-Dichlorobenzene	18.05	14.75	1.224 ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.49	10.52	1.187 ok	1.189	1.129-1.249
Di-Isopropyl ether	8.84	8.85	0.999 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.66	10.52	1.013 ok	1.013	0.953-1.073

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
2,4-Dimethylpentane	9.61	8.85	1.086	ok	1.088	1.028-1.148
Ethanol	6.01	8.85	0.679	ok	0.677	0.617-0.737
Ethylbenzene	15.18	14.75	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.86	8.85	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	17.24	14.75	1.169	ok	1.170	1.110-1.230
Freon 113	7.28	8.85	0.823	ok	0.821	0.761-0.881
Freon 114	5.33	8.85	0.602	ok	0.598	0.538-0.658
Freon 123	6.27	8.85	0.708	ok	0.705	0.645-0.765
Freon 123A	6.32	8.85	0.714	ok	0.710	0.650-0.770
Freon 152A	4.99	8.85	0.564	ok	0.560	0.500-0.620
Heptane	11.42	10.52	1.086	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.87	14.75	1.415	ok	1.417	1.357-1.477
Hexane	8.85	8.85	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.20	14.75	0.895	ok	0.896	0.836-0.956
Iodomethane	6.96	8.85	0.786	ok	0.783	0.723-0.843
Isopropylbenzene	16.52	14.75	1.120	ok	1.121	1.061-1.181
Isopropyl Alcohol	6.57	8.85	0.742	ok	0.743	0.683-0.803
p-Isopropyltoluene	18.26	14.75	1.238	ok	1.239	1.179-1.299
Methylene chloride	7.08	8.85	0.800	ok	0.799	0.739-0.859
Methyl ethyl ketone	8.33	8.85	0.941	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.03	10.52	1.144	ok	1.146	1.086-1.206
Methyl Tert Butyl Ether	8.04	8.85	0.908	ok	0.909	0.849-0.969
Methylmethacrylate	11.35	10.52	1.079	ok	1.080	1.020-1.140
Nonane	16.08	14.75	1.090	ok	1.091	1.031-1.151
Octane	13.90	14.75	0.942	ok	0.942	0.882-1.002
Pentane	6.76	8.85	0.764	ok	0.762	0.702-0.822
n-Propylbenzene	17.08	14.75	1.158	ok	1.159	1.099-1.219
Propylene	5.05	8.85	0.571	ok	0.567	0.507-0.627
Styrene	15.76	14.75	1.068	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.82	8.85	1.110	ok	1.111	1.051-1.171
1,1,1,2-Tetrachloroethane	14.78	14.75	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.89	14.75	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.68	10.52	1.205	ok	1.207	1.147-1.267
1,2,4-Trichlorobenzene	20.36	14.75	1.380	ok	1.382	1.322-1.442
1,2,3-Trichloropropane	16.03	14.75	1.087	ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.79	14.75	1.206	ok	1.207	1.147-1.267
1,3,5-Trimethylbenzene	17.33	14.75	1.175	ok	1.176	1.116-1.236
2,2,4-Trimethylpentane	11.19	10.52	1.064	ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	7.04	8.85	0.795	ok	0.798	0.738-0.858
Tetrachloroethylene	14.08	14.75	0.955	ok	0.955	0.895-1.015

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Tetrahydrofuran	9.32	8.85	1.053 ok	1.057	0.997-1.117
Toluene	12.95	10.52	1.231 ok	1.233	1.173-1.293
Trichloroethylene	11.19	10.52	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.50	8.85	0.734 ok	0.732	0.672-0.792
Vinyl chloride	5.44	8.85	0.615 ok	0.611	0.551-0.671
Vinyl Acetate	8.10	8.85	0.915 ok	0.915	0.855-0.975
m,p-Xylene	15.37	14.75	1.042 ok	1.042	0.982-1.102
o-Xylene	15.88	14.75	1.077 ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.76	8.85	0.764 ok	0.762	0.702-0.822
TVHC As Equiv Heptane	11.42	10.52	1.086 ok	1.087	1.027-1.147

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.85 ok	8.79	8.46-9.12	75059 ok	78106	46864-109348
1,4-Difluorobenzene	10.52 ok	10.48	10.15-10.81	350825 ok	377650	226590-528710
Chlorobenzene-D5	14.75 ok	14.73	14.40-15.06	254841 ok	202605	121563-283647

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15 Reporting this level
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	6.29	8.77	0.717 ok	0.718	0.658-0.778
Acrolein	6.17	8.77	0.704 ok	0.706	0.646-0.766
1,3-Butadiene	5.44	8.77	0.620 ok	0.623	0.563-0.683
Benzene	10.17	10.46	0.972 ok	0.972	0.912-1.032
Bromodichloromethane	11.10	10.46	1.061 ok	1.061	1.001-1.121
Bromoform	15.45	14.72	1.050 ok	1.050	0.990-1.110
Bromomethane	5.66	8.77	0.645 ok	0.649	0.589-0.709
Bromoethene	6.07	8.77	0.692 ok	0.695	0.635-0.755
n-Butane	5.47	8.77	0.624 ok	0.627	0.567-0.687
Benzyl Chloride	17.93	14.72	1.218 ok	1.218	1.158-1.278
n-Butylbenzene	18.72	14.72	1.272 ok	1.272	1.212-1.332
sec-Butylbenzene	18.07	14.72	1.228 ok	1.227	1.167-1.287
tert-Butylbenzene	17.76	14.72	1.207 ok	1.206	1.146-1.266
Carbon disulfide	7.27	8.77	0.829 ok	0.830	0.770-0.890
Chlorobenzene	14.77	14.72	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.91	8.77	0.560 ok	0.563	0.503-0.623
Chloroethane	5.79	8.77	0.660 ok	0.663	0.603-0.723
Chloroform	8.86	8.77	1.010 ok	1.012	0.952-1.072
Chloromethane	5.15	8.77	0.587 ok	0.590	0.530-0.650
3-Chloropropene	7.08	8.77	0.807 ok	0.809	0.749-0.869
2-Chlorotoluene	17.03	14.72	1.157 ok	1.157	1.097-1.217
Carbon tetrachloride	10.30	8.77	1.174 ok	1.174	1.114-1.234
Cyclohexane	10.41	10.46	0.995 ok	0.996	0.936-1.056
1,1-Dichloroethane	7.91	8.77	0.902 ok	0.904	0.844-0.964
1,1-Dichloroethylene	6.90	8.77	0.787 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.59	14.72	0.923 ok	0.924	0.864-0.984
1,2-Dichloroethane	9.52	8.77	1.086 ok	1.086	1.026-1.146
1,2-Dichloropropane	10.92	10.46	1.044 ok	1.043	0.983-1.103
1,4-Dioxane	11.27	10.46	1.077 ok	1.071	1.011-1.131
Dichlorodifluoromethane	5.00	8.77	0.570 ok	0.573	0.513-0.633
Dibromochloromethane	13.35	14.72	0.907 ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.74	8.77	0.883 ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	8.61	8.77	0.982 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.94	10.46	1.141 ok	1.141	1.081-1.201
m-Dichlorobenzene	17.95	14.72	1.219 ok	1.219	1.159-1.279
o-Dichlorobenzene	18.42	14.72	1.251 ok	1.251	1.191-1.311
p-Dichlorobenzene	18.03	14.72	1.225 ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.45	10.46	1.190 ok	1.189	1.129-1.249
Di-Isopropyl ether	8.77	8.77	1.000 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.60	10.46	1.013 ok	1.013	0.953-1.073

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15 Reporting this level
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
2,4-Dimethylpentane	9.54	8.77	1.088 ok	1.088	1.028-1.148
Ethanol	5.93	8.77	0.676 ok	0.677	0.617-0.737
Ethylbenzene	15.16	14.72	1.030 ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.77	1.001 ok	1.002	0.942-1.062
4-Ethyltoluene	17.22	14.72	1.170 ok	1.170	1.110-1.230
Freon 113	7.18	8.77	0.819 ok	0.821	0.761-0.881
Freon 114	5.22	8.77	0.595 ok	0.598	0.538-0.658
Freon 123	6.16	8.77	0.702 ok	0.705	0.645-0.765
Freon 123A	6.21	8.77	0.708 ok	0.710	0.650-0.770
Freon 152A	4.88	8.77	0.556 ok	0.560	0.500-0.620
Heptane	11.38	10.46	1.088 ok	1.087	1.027-1.147
Hexachlorobutadiene	20.87	14.72	1.418 ok	1.417	1.357-1.477
Hexane	8.77	8.77	1.000 ok	1.000	0.940-1.060
2-Hexanone	13.20	14.72	0.897 ok	0.896	0.836-0.956
Iodomethane	6.85	8.77	0.781 ok	0.783	0.723-0.843
Isopropylbenzene	16.50	14.72	1.121 ok	1.121	1.061-1.181
Isopropyl Alcohol	6.52	8.77	0.743 ok	0.743	0.683-0.803
p-Isopropyltoluene	18.25	14.72	1.240 ok	1.239	1.179-1.299
Methylene chloride	6.99	8.77	0.797 ok	0.799	0.739-0.859
Methyl ethyl ketone	8.26	8.77	0.942 ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.01	10.46	1.148 ok	1.146	1.086-1.206
Methyl Tert Butyl Ether	7.97	8.77	0.909 ok	0.909	0.849-0.969
Methylmethacrylate	11.31	10.46	1.081 ok	1.080	1.020-1.140
Nonane	16.06	14.72	1.091 ok	1.091	1.031-1.151
Octane	13.86	14.72	0.942 ok	0.942	0.882-1.002
Pentane	6.66	8.77	0.759 ok	0.762	0.702-0.822
n-Propylbenzene	17.06	14.72	1.159 ok	1.159	1.099-1.219
Propylene	4.94	8.77	0.563 ok	0.567	0.507-0.627
Styrene	15.73	14.72	1.069 ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.75	8.77	1.112 ok	1.111	1.051-1.171
1,1,1,2-Tetrachloroethane	14.75	14.72	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.86	14.72	1.077 ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.64	10.46	1.208 ok	1.207	1.147-1.267
1,2,4-Trichlorobenzene	20.36	14.72	1.383 ok	1.382	1.322-1.442
1,2,3-Trichloropropane	16.00	14.72	1.087 ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.77	14.72	1.207 ok	1.207	1.147-1.267
1,3,5-Trimethylbenzene	17.31	14.72	1.176 ok	1.176	1.116-1.236
2,2,4-Trimethylpentane	11.14	10.46	1.065 ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	7.01	8.77	0.799 ok	0.798	0.738-0.858
Tetrachloroethylene	14.06	14.72	0.955 ok	0.955	0.895-1.015

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15 Reporting this level
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Tetrahydrofuran	9.30	8.77	1.060 ok	1.057	0.997-1.117
Toluene	12.91	10.46	1.234 ok	1.233	1.173-1.293
Trichloroethylene	11.13	10.46	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.40	8.77	0.730 ok	0.732	0.672-0.792
Vinyl chloride	5.33	8.77	0.608 ok	0.611	0.551-0.671
Vinyl Acetate	8.01	8.77	0.913 ok	0.915	0.855-0.975
m,p-Xylene	15.34	14.72	1.042 ok	1.042	0.982-1.102
o-Xylene	15.85	14.72	1.077 ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.66	8.77	0.759 ok	0.762	0.702-0.822
TVHC As Equiv Heptane	11.38	10.46	1.088 ok	1.087	1.027-1.147

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.77 ok	8.79	8.46-9.12	80679 ok	78106	46864-109348
1,4-Difluorobenzene	10.46 ok	10.48	10.15-10.81	367655 ok	377650	226590-528710
Chlorobenzene-D5	14.72 ok	14.73	14.40-15.06	163398 ok	202605	121563-283647

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	6.30	8.77	0.718 ok	0.718	0.658-0.778
Acrolein	6.19	8.77	0.706 ok	0.706	0.646-0.766
1,3-Butadiene	5.46	8.77	0.623 ok	0.623	0.563-0.683
Benzene	10.18	10.47	0.972 ok	0.972	0.912-1.032
Bromodichloromethane	11.11	10.47	1.061 ok	1.061	1.001-1.121
Bromoform	15.45	14.72	1.050 ok	1.050	0.990-1.110
Bromomethane	5.68	8.77	0.648 ok	0.649	0.589-0.709
Bromoethene	6.09	8.77	0.694 ok	0.695	0.635-0.755
n-Butane	5.49	8.77	0.626 ok	0.627	0.567-0.687
Benzyl Chloride	17.94	14.72	1.219 ok	1.218	1.158-1.278
n-Butylbenzene	18.73	14.72	1.272 ok	1.272	1.212-1.332
sec-Butylbenzene	18.08	14.72	1.228 ok	1.227	1.167-1.287
tert-Butylbenzene	17.77	14.72	1.207 ok	1.206	1.146-1.266
Carbon disulfide	7.27	8.77	0.829 ok	0.830	0.770-0.890
Chlorobenzene	14.77	14.72	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.92	8.77	0.561 ok	0.563	0.503-0.623
Chloroethane	5.81	8.77	0.662 ok	0.663	0.603-0.723
Chloroform	8.88	8.77	1.013 ok	1.012	0.952-1.072
Chloromethane	5.16	8.77	0.588 ok	0.590	0.530-0.650
3-Chloropropene	7.09	8.77	0.808 ok	0.809	0.749-0.869
2-Chlorotoluene	17.04	14.72	1.158 ok	1.157	1.097-1.217
Carbon tetrachloride	10.31	8.77	1.176 ok	1.174	1.114-1.234
Cyclohexane	10.43	10.47	0.996 ok	0.996	0.936-1.056
1,1-Dichloroethane	7.93	8.77	0.904 ok	0.904	0.844-0.964
1,1-Dichloroethylene	6.90	8.77	0.787 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.60	14.72	0.924 ok	0.924	0.864-0.984
1,2-Dichloroethane	9.54	8.77	1.088 ok	1.086	1.026-1.146
1,2-Dichloropropane	10.92	10.47	1.043 ok	1.043	0.983-1.103
1,4-Dioxane	11.39	10.47	1.088 ok	1.071	1.011-1.131
Dichlorodifluoromethane	5.02	8.77	0.572 ok	0.573	0.513-0.633
Dibromochloromethane	13.35	14.72	0.907 ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.75	8.77	0.884 ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	8.63	8.77	0.984 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.96	10.47	1.142 ok	1.141	1.081-1.201
m-Dichlorobenzene	17.95	14.72	1.219 ok	1.219	1.159-1.279
o-Dichlorobenzene	18.42	14.72	1.251 ok	1.251	1.191-1.311
p-Dichlorobenzene	18.03	14.72	1.225 ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.46	10.47	1.190 ok	1.189	1.129-1.249
Di-Isopropyl ether	8.79	8.77	1.002 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.61	10.47	1.013 ok	1.013	0.953-1.073

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
2,4-Dimethylpentane	9.56	8.77	1.090 ok	1.088	1.028-1.148
Ethylbenzene	15.15	14.72	1.029 ok	1.029	0.969-1.089
Ethyl Acetate	8.83	8.77	1.007 ok	1.002	0.942-1.062
4-Ethyltoluene	17.23	14.72	1.171 ok	1.170	1.110-1.230
Freon 113	7.19	8.77	0.820 ok	0.821	0.761-0.881
Freon 114	5.24	8.77	0.597 ok	0.598	0.538-0.658
Freon 123	6.18	8.77	0.705 ok	0.705	0.645-0.765
Freon 123A	6.22	8.77	0.709 ok	0.710	0.650-0.770
Freon 152A	4.90	8.77	0.559 ok	0.560	0.500-0.620
Heptane	11.38	10.47	1.087 ok	1.087	1.027-1.147
Hexachlorobutadiene	20.87	14.72	1.418 ok	1.417	1.357-1.477
Hexane	8.78	8.77	1.001 ok	1.000	0.940-1.060
2-Hexanone	13.26	14.72	0.901 ok	0.896	0.836-0.956
Iodomethane	6.86	8.77	0.782 ok	0.783	0.723-0.843
Isopropylbenzene	16.50	14.72	1.121 ok	1.121	1.061-1.181
Isopropyl Alcohol	6.61	8.77	0.754 ok	0.743	0.683-0.803
p-Isopropyltoluene	18.25	14.72	1.240 ok	1.239	1.179-1.299
Methylene chloride	7.00	8.77	0.798 ok	0.799	0.739-0.859
Methyl ethyl ketone	8.31	8.77	0.948 ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.08	10.47	1.154 ok	1.146	1.086-1.206
Methyl Tert Butyl Ether	7.99	8.77	0.911 ok	0.909	0.849-0.969
Methylmethacrylate	11.33	10.47	1.082 ok	1.080	1.020-1.140
Nonane	16.06	14.72	1.091 ok	1.091	1.031-1.151
Octane	13.88	14.72	0.943 ok	0.942	0.882-1.002
Pentane	6.68	8.77	0.762 ok	0.762	0.702-0.822
n-Propylbenzene	17.06	14.72	1.159 ok	1.159	1.099-1.219
Propylene	4.96	8.77	0.566 ok	0.567	0.507-0.627
Styrene	15.74	14.72	1.069 ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.76	8.77	1.113 ok	1.111	1.051-1.171
1,1,1,2-Tetrachloroethane	14.75	14.72	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.88	14.72	1.079 ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.64	10.47	1.207 ok	1.207	1.147-1.267
1,2,4-Trichlorobenzene	20.36	14.72	1.383 ok	1.382	1.322-1.442
1,2,3-Trichloropropane	16.01	14.72	1.088 ok	1.087	1.027-1.147
1,2,4-Trimethylbenzene	17.78	14.72	1.208 ok	1.207	1.147-1.267
1,3,5-Trimethylbenzene	17.31	14.72	1.176 ok	1.176	1.116-1.236
2,2,4-Trimethylpentane	11.15	10.47	1.065 ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	7.11	8.77	0.811 ok	0.798	0.738-0.858
Tetrachloroethylene	14.06	14.72	0.955 ok	0.955	0.895-1.015
Tetrahydrofuran	9.36	8.77	1.067 ok	1.057	0.997-1.117

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Toluene	12.91	10.47	1.233 ok	1.233	1.173-1.293
Trichloroethylene	11.14	10.47	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.41	8.77	0.731 ok	0.732	0.672-0.792
Vinyl chloride	5.34	8.77	0.609 ok	0.611	0.551-0.671
Vinyl Acetate	8.04	8.77	0.917 ok	0.915	0.855-0.975
m,p-Xylene	15.35	14.72	1.043 ok	1.042	0.982-1.102
o-Xylene	15.85	14.72	1.077 ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.68	8.77	0.762 ok	0.762	0.702-0.822
TVHC As Equiv Heptane	11.38	10.47	1.087 ok	1.087	1.027-1.147

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.77 ok	8.79	8.46-9.12	69106	ok 78106	46864-109348
1,4-Difluorobenzene	10.47 ok	10.48	10.15-10.81	349114	ok 377650	226590-528710
Chlorobenzene-D5	14.72 ok	14.73	14.40-15.06	169427	ok 202605	121563-283647

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	6.27	8.75	0.717 ok	0.718	0.658-0.778
1,3-Butadiene	5.43	8.75	0.621 ok	0.623	0.563-0.683
Benzene	10.16	10.45	0.972 ok	0.972	0.912-1.032
Bromodichloromethane	11.09	10.45	1.061 ok	1.061	1.001-1.121
Bromoform	15.44	14.71	1.050 ok	1.050	0.990-1.110
Bromomethane	5.65	8.75	0.646 ok	0.649	0.589-0.709
Bromoethene	6.06	8.75	0.693 ok	0.695	0.635-0.755
n-Butane	5.46	8.75	0.624 ok	0.627	0.567-0.687
Carbon disulfide	7.25	8.75	0.829 ok	0.830	0.770-0.890
Chlorobenzene	14.75	14.71	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.90	8.75	0.560 ok	0.563	0.503-0.623
Chloroethane	5.79	8.75	0.662 ok	0.663	0.603-0.723
Chloroform	8.86	8.75	1.013 ok	1.012	0.952-1.072
Chloromethane	5.13	8.75	0.586 ok	0.590	0.530-0.650
3-Chloropropene	7.08	8.75	0.809 ok	0.809	0.749-0.869
2-Chlorotoluene	17.03	14.71	1.158 ok	1.157	1.097-1.217
Carbon tetrachloride	10.29	8.75	1.176 ok	1.174	1.114-1.234
Cyclohexane	10.41	10.45	0.996 ok	0.996	0.936-1.056
1,1-Dichloroethane	7.90	8.75	0.903 ok	0.904	0.844-0.964
1,1-Dichloroethylene	6.90	8.75	0.789 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.58	14.71	0.923 ok	0.924	0.864-0.984
1,2-Dichloroethane	9.51	8.75	1.087 ok	1.086	1.026-1.146
1,2-Dichloropropane	10.91	10.45	1.044 ok	1.043	0.983-1.103
Dichlorodifluoromethane	4.98	8.75	0.569 ok	0.573	0.513-0.633
Dibromochloromethane	13.33	14.71	0.906 ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.75	8.75	0.886 ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	8.60	8.75	0.983 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.94	10.45	1.143 ok	1.141	1.081-1.201
trans-1,3-Dichloropropene	12.44	10.45	1.190 ok	1.189	1.129-1.249
Di-Isopropyl ether	8.75	8.75	1.000 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.60	10.45	1.014 ok	1.013	0.953-1.073
2,4-Dimethylpentane	9.53	8.75	1.089 ok	1.088	1.028-1.148
Ethylbenzene	15.14	14.71	1.029 ok	1.029	0.969-1.089
4-Ethyltoluene	17.22	14.71	1.171 ok	1.170	1.110-1.230
Freon 113	7.18	8.75	0.821 ok	0.821	0.761-0.881
Freon 114	5.21	8.75	0.595 ok	0.598	0.538-0.658
Freon 123	6.15	8.75	0.703 ok	0.705	0.645-0.765
Freon 123A	6.18	8.75	0.706 ok	0.710	0.650-0.770
Heptane	11.36	10.45	1.087 ok	1.087	1.027-1.147
Hexane	8.75	8.75	1.000 ok	1.000	0.940-1.060

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Iodomethane	6.84	8.75	0.782 ok	0.783	0.723-0.843
Isopropylbenzene	16.50	14.71	1.122 ok	1.121	1.061-1.181
Isopropyl Alcohol	6.49	8.75	0.742 ok	0.743	0.683-0.803
Methyl Isobutyl Ketone	12.01	10.45	1.149 ok	1.146	1.086-1.206
Methyl Tert Butyl Ether	7.96	8.75	0.910 ok	0.909	0.849-0.969
Nonane	16.06	14.71	1.092 ok	1.091	1.031-1.151
Octane	13.86	14.71	0.942 ok	0.942	0.882-1.002
Pentane	6.65	8.75	0.760 ok	0.762	0.702-0.822
n-Propylbenzene	17.06	14.71	1.160 ok	1.159	1.099-1.219
Propylene	4.93	8.75	0.563 ok	0.567	0.507-0.627
Styrene	15.72	14.71	1.069 ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.73	8.75	1.112 ok	1.111	1.051-1.171
1,1,1,2-Tetrachloroethane	14.74	14.71	1.002 ok	1.002	0.942-1.062
1,2,3-Trichloropropane	15.99	14.71	1.087 ok	1.087	1.027-1.147
1,3,5-Trimethylbenzene	17.30	14.71	1.176 ok	1.176	1.116-1.236
2,2,4-Trimethylpentane	11.13	10.45	1.065 ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	6.99	8.75	0.799 ok	0.798	0.738-0.858
Tetrachloroethylene	14.06	14.71	0.956 ok	0.955	0.895-1.015
Toluene	12.90	10.45	1.234 ok	1.233	1.173-1.293
Trichloroethylene	11.13	10.45	1.065 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.38	8.75	0.729 ok	0.732	0.672-0.792
Vinyl chloride	5.32	8.75	0.608 ok	0.611	0.551-0.671
m,p-Xylene	15.34	14.71	1.043 ok	1.042	0.982-1.102
o-Xylene	15.84	14.71	1.077 ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.65	8.75	0.760 ok	0.762	0.702-0.822
TVHC As Equiv Heptane	11.36	10.45	1.087 ok	1.087	1.027-1.147

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75 ok	8.79	8.46-9.12	82639 ok	78106	46864-109348
1,4-Difluorobenzene	10.45 ok	10.48	10.15-10.81	381399 ok	377650	226590-528710
Chlorobenzene-D5	14.71 ok	14.73	14.40-15.06	177868 ok	202605	121563-283647

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,3-Butadiene	5.45	8.77	0.621 ok	0.623	0.563-0.683
Benzene	10.18	10.47	0.972 ok	0.972	0.912-1.032
Bromodichloromethane	11.11	10.47	1.061 ok	1.061	1.001-1.121
Bromoform	15.45	14.72	1.050 ok	1.050	0.990-1.110
Bromoethene	6.08	8.77	0.693 ok	0.695	0.635-0.755
Carbon disulfide	7.28	8.77	0.830 ok	0.830	0.770-0.890
Chlorobenzene	14.76	14.72	1.003 ok	1.003	0.943-1.063
Chloroform	8.86	8.77	1.010 ok	1.012	0.952-1.072
Carbon tetrachloride	10.30	8.77	1.174 ok	1.174	1.114-1.234
1,1-Dichloroethane	7.92	8.77	0.903 ok	0.904	0.844-0.964
1,2-Dibromoethane	13.59	14.72	0.923 ok	0.924	0.864-0.984
1,2-Dichloroethane	9.53	8.77	1.087 ok	1.086	1.026-1.146
1,2-Dichloropropane	10.92	10.47	1.043 ok	1.043	0.983-1.103
Dibromochloromethane	13.36	14.72	0.908 ok	0.907	0.847-0.967
cis-1,3-Dichloropropene	11.96	10.47	1.142 ok	1.141	1.081-1.201
trans-1,3-Dichloropropene	12.46	10.47	1.190 ok	1.189	1.129-1.249
Di-Isopropyl ether	8.79	8.77	1.002 ok	1.000	0.940-1.060
2,4-Dimethylpentane	9.55	8.77	1.089 ok	1.088	1.028-1.148
Ethylbenzene	15.16	14.72	1.030 ok	1.029	0.969-1.089
Freon 113	7.19	8.77	0.820 ok	0.821	0.761-0.881
Freon 114	5.23	8.77	0.596 ok	0.598	0.538-0.658
Freon 123	6.18	8.77	0.705 ok	0.705	0.645-0.765
Freon 123A	6.22	8.77	0.709 ok	0.710	0.650-0.770
Heptane	11.38	10.47	1.087 ok	1.087	1.027-1.147
Hexane	8.78	8.77	1.001 ok	1.000	0.940-1.060
Iodomethane	6.86	8.77	0.782 ok	0.783	0.723-0.843
Isopropylbenzene	16.50	14.72	1.121 ok	1.121	1.061-1.181
Nonane	16.07	14.72	1.092 ok	1.091	1.031-1.151
Octane	13.88	14.72	0.943 ok	0.942	0.882-1.002
Styrene	15.74	14.72	1.069 ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.75	8.77	1.112 ok	1.111	1.051-1.171
1,1,1,2-Tetrachloroethane	14.75	14.72	1.002 ok	1.002	0.942-1.062
1,1,2-Trichloroethane	12.65	10.47	1.208 ok	1.207	1.147-1.267
1,2,3-Trichloropropane	16.00	14.72	1.087 ok	1.087	1.027-1.147
2,2,4-Trimethylpentane	11.15	10.47	1.065 ok	1.065	1.005-1.125
Tetrachloroethylene	14.06	14.72	0.955 ok	0.955	0.895-1.015
Toluene	12.92	10.47	1.234 ok	1.233	1.173-1.293
Trichloroethylene	11.13	10.47	1.063 ok	1.064	1.004-1.124
m,p-Xylene	15.34	14.72	1.042 ok	1.042	0.982-1.102
o-Xylene	15.85	14.72	1.077 ok	1.077	1.017-1.137

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1222-ICC1222	W29766.D	01/19/11 17:47	YMH	10	GCMSW	TO-15
VW1222-IC1222	W29770.D	01/19/11 21:46	YMH	20	GCMSW	TO-15
VW1222-IC1222	W29771.D	01/19/11 22:26	YMH	5	GCMSW	TO-15
VW1222-IC1222	W29774.D	01/20/11 01:46	YMH	40	GCMSW	TO-15
VW1222-IC1222	W29775.D	01/20/11 06:34	YMH	0.5	GCMSW	TO-15
VW1222-IC1222	W29776.D	01/20/11 07:15	YMH	0.2	GCMSW	TO-15
VW1222-IC1222	W29777.D	01/20/11 11:23	YMH	0.1	GCMSW	TO-15
VW1222-IC1222	W29778.D	01/20/11 12:02	YMH	0.04	GCMSW	TO-15
						Reporting this level

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.77 ok	8.79	8.46-9.12	69266 ok	78106	46864-109348
1,4-Difluorobenzene	10.47 ok	10.48	10.15-10.81	322539 ok	377650	226590-528710
Chlorobenzene-D5	14.72 ok	14.73	14.40-15.06	151912 ok	202605	121563-283647

5.7.3

5

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JA68565-1	3W21011.D	102.0
JA68565-1	3W21000.D	109.0
JA68565-2	3W21001.D	108.0
JA68565-3	3W20984.D	109.0
JA68565-4	3W21012.D	107.0
JA68565-4	3W20985.D	108.0
JA68565-5	3W21028.D	110.0
JA68565-5	3W20987.D	110.0
JA68565-6	3W21014.D	112.0
JA68565-6	3W20988.D	109.0
JA68565-7	3W20989.D	109.0
JA68565-8	3W20990.D	110.0
JA68565-9	3W20991.D	113.0
JA68565-10	3W21015.D	106.0
JA68565-10	3W20992.D	110.0
JA68565-11	3W20993.D	111.0
JA68565-12	3W21016.D	108.0
JA68565-12	3W20994.D	112.0
JA68565-4DUP	3W20986.D	112.0
JA68864-8DUP	3W21018.D	102.0
V2W1256-SCC	2W29765.D	84.0
V3W828-BS	3W20973.D	101.0
V3W828-BSD	3W20974.D	102.0
V3W828-MB	3W20975.D	84.0
V3W829-BS	3W21004.D	110.0
V3W829-BSD	3W21005.D	109.0
V3W829-MB	3W21006.D	78.0
VW1236-SCC	W30133.D	96.0
V2W1256-BS	2W29759.D	97.0
V2W1256-BSD	2W29760.D	98.0
V2W1256-MB	2W29761.D	89.0
VW1236-BS	W30127.D	101.0
VW1236-BSD	W30128.D	99.0
VW1236-MB	W30129.D	86.0

Surrogate Compounds **Recovery Limits**

S1 = 4-Bromofluorobenzene 65-128%

Initial Calibration Summary

Job Number: JA68565

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1240-ICC1240

Lab FileID: 2W29354.D

Page 1 of 2

Response Factor Report MS2W											
Method Path : C:\msdchem\1\METHODS\											
Method File : M2W1240.M											
Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um											
Last Update : Mon Feb 28 10:02:56 2011											
Response Via : Initial Calibration											
Calibration Files											
0.04=2W29359.D 0.1 =2W29358.D 0.2 =2W29353.D 0.5 =2W29355.D 5.0 =2W29357.D 10. =2W29354.D 20. =2W29356.D											
40 =2W29362.D											
Compound	0.04	0.1	0.2	0.5	5.0	10.	20.	40	Avg	%RSD	

1) I BROMOCHLOROMETHANE	-----ISTD-----										
2) FREON 115								0.000	-1.00		
3) DICHLORODIFLUO...	7.220	6.524	6.728	5.607	4.365	4.685	4.407	4.139	5.459	22.45	
4) FREON 152A		2.204	1.594	1.023	1.089	1.051	0.983	1.324		36.76	
5) CHLORODIFLUORO...		0.782	0.591	0.423	0.443	0.427	0.398	0.511		29.32	
6) PROPYLENE		2.020	1.960	1.614	1.251	1.371	1.280	1.214	1.530	22.28	
7) FREON 114	7.718	7.423	6.928	6.314	5.112	5.470	5.229	4.891	6.136	18.15	
8) CHLOROMETHANE		0.727	0.599	0.457	0.495	0.463	0.438	0.530		21.17	
9) VINYL CHLORIDE	2.387	2.381	2.375	2.190	1.723	1.844	1.782	1.687	2.046	15.47	
10) 1,3-BUTADIENE	1.669	1.645	1.718	1.534	1.288	1.405	1.361	1.289	1.489	11.78	
11) n-BUTANE		3.758	3.332	2.580	2.777	2.654	2.453	2.926		17.41	
12) BROMOMETHANE	1.981	2.192	2.151	2.006	1.612	1.713	1.652	1.574	1.860	13.47	
13) CHLOROETHANE	1.213	1.168	1.309	1.214	0.962	1.049	1.016	0.965	1.112	11.78	
14) FREON 123	6.160	5.833	5.782	5.336	4.391	4.714	4.549	4.251	5.127	14.47	
15) FREON 123A	3.564	3.323	3.307	3.071	2.472	2.655	2.558	2.382	2.917	15.56	
16) TRICHLOROFLUOR...	6.936	6.294	6.094	5.583	4.445	4.720	4.522	4.244	5.355	18.86	
17) ISOPROPYL ALCOHOL		2.722	2.766	2.663	2.369	2.724	2.913	2.924	2.726	6.82	
18) ACETONE		0.617	0.815	0.741	0.530	0.695	0.742	0.736	0.697	13.57	
19) PENTANE		2.331	2.494	2.248	1.781	1.886	1.788	1.693	2.032	15.66	
20) H TVHC as EQUIV ...	1.086	0.841	0.897	1.155	0.982	0.964	0.883	0.839	0.956	E1 12.06	
21) IODOMETHANE	4.581	4.464	5.090	4.812	4.062	4.333	4.244	4.040	4.453	8.19	
22) 1,1-DICHLOROET...	1.872	1.820	2.099	2.029	1.661	1.807	1.762	1.676	1.841	8.48	
23) CARBON DISULFIDE	6.124	5.868	5.910	5.116	4.172	4.513	4.440	4.223	5.046	16.21	
24) ETHANOL		0.670	0.797	0.424	0.494	0.537	0.535	0.576		23.41	
25) BROMOETHENE	1.759	1.977	1.909	1.888	1.595	1.712	1.668	1.598	1.763	8.30	
26) METHYLENE CHLO...		2.020	1.686	1.324	1.459	1.428	1.380	1.550		16.88	
27) 3-CHLOROPROPENE	0.640	0.715	0.763	0.719	0.700	0.795	0.808	0.789	0.741	7.78	
28) FREON 113	3.932	3.740	3.698	3.425	2.872	3.015	2.907	2.705	3.287	14.27	
29) TRANS-1,2-DICH...		2.076	1.943	1.522	1.500	1.688	1.689	1.664	1.726	12.26	
30) TERTIARY BUTYL...	2.730	3.612	3.512	3.600	2.964	3.415	3.784	3.677	3.412	10.85	
31) METHYL TERTIAR...		5.034	5.163	5.378	4.972	5.442	5.475	5.232	5.242	3.78	
32) TETRAHYDROFURAN		0.726	0.772	0.450	0.705	0.825	0.852	0.722		20.03	
33) HEXANE	3.401	3.481	3.382	3.169	2.599	2.911	2.776	2.635	3.044	11.80	
34) VINYL ACETATE		0.130	0.253	0.304	0.342	0.398	0.417	0.307		34.38	
35) 1,1-DICHLOROET...	3.755	3.635	3.876	3.647	3.067	3.402	3.265	3.068	3.464	8.96	
36) METHYL ETHYL K...		0.404	0.611	0.572	0.645	0.776	0.836	0.641		23.96	
37) cis-1,2-DICHLO...	1.682	1.543	1.517	1.512	1.554	1.763	1.772	1.743	1.636	7.05	
38) ETHYL ACETATE		0.524	0.371	0.317	0.394	0.469	0.491	0.428		18.59	
39) CHLOROFORM	3.769	3.673	3.679	4.073	3.444	3.802	3.692	3.509	3.705	5.18	
40) 2,4-DIMETHYLPE...	4.794	4.596	4.745	4.412	3.624	3.910	3.776	3.568	4.178	12.28	
41) 1,1,1-TRICHLOR...	5.166	4.919	5.104	4.591	3.897	4.156	4.005	3.766	4.450	12.71	
42) CARBON TETRACH...	5.204	5.043	5.119	4.822	3.954	4.245	4.061	3.770	4.527	12.83	
43) 1,2-DICHLOROET...	1.548	1.775	1.903	1.833	1.816	2.068	2.086	2.018	1.881	9.53	
44) I 1,4-DIFLUOROBENZENE	-----ISTD-----										

Initial Calibration Summary

Page 2 of 2

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1240-ICC1240
Lab FileID: 2W29354.D

45)	BENZENE	1.216	1.137	1.157	1.096	1.028	1.085	1.086	1.034	1.105	5.71
46)	CYCLOHEXANE	0.849	0.763	0.755	0.685	0.619	0.625	0.619	0.578	0.687	13.66
47)	2,3-DIMETHYLPE...	0.391	0.360	0.355	0.339	0.294	0.292	0.292	0.271	0.324	13.14
48)	TRICHLOROETHYLENE	0.585	0.513	0.454	0.424	0.402	0.430	0.446	0.424	0.460	13.14
49)	1,2-DICHLOROPR...		0.405	0.344	0.350	0.386	0.405	0.410	0.388	0.384	6.96
50)	BROMODICHLOROM...	0.816	0.714	0.688	0.638	0.677	0.728	0.734	0.697	0.712	7.34
51)	2,2,4-TRIMETHY...	2.703	2.365	2.325	2.141	1.950	1.932	2.000	1.808	2.153	13.71
52)	1,4-DIOXANE			0.138	0.115	0.120	0.158	0.212	0.221	0.161	28.51
53)	METHYL METHACR...			0.323	0.269	0.325	0.360	0.396	0.393	0.344	14.00
54)	HEPTANE	0.730	0.630	0.666	0.634	0.629	0.636	0.627	0.584	0.642	6.52
55) H	TVHC as EQUIV ...	3.082	2.757	2.594	2.468	2.978	3.039	2.938	2.663	2.815	8.04
56)	METHYL ISOBUTY...			0.240	0.250	0.233	0.276	0.312	0.309	0.270	12.83
57)	cis-1,3-DICHLOR...		0.478	0.396	0.434	0.464	0.525	0.551	0.538	0.484	11.87
58)	TOLUENE	0.709	0.698	0.653	0.594	0.681	0.731	0.750	0.717	0.692	7.15
59)	trans-1,3-DICH...			0.229	0.214	0.324	0.384	0.413	0.417	0.330	27.50
60)	1,1,2-TRICHLOR...	0.306	0.299	0.306	0.287	0.327	0.354	0.360	0.345	0.323	8.48
61) I	CHLOROBENZENE-D5	-----ISTD-----									
62)	2-HEXANONE			0.514	0.574	0.528	0.605	0.694	0.654	0.595	11.90
63)	TETRACHLOROETH...	0.995	0.983	0.972	1.028	0.944	0.930	0.857	0.743	0.932	9.84
64)	DIBROMOCHLOROM...	1.353	1.415	1.325	1.286	1.430	1.463	1.360	1.182	1.352	6.65
65)	1,2-DIBROMOETHANE	0.781	0.958	0.920	0.906	0.947	1.031	1.002	0.914	0.932	8.07
66)	OCTANE	1.909	1.731	1.663	1.764	1.874	1.832	1.694	1.437	1.738	8.58
67)	1,1,1,2-TETRAC...	1.290	1.207	1.298	1.329	1.288	1.198	1.104	0.930	1.206	11.05
68)	CHLOROBENZENE	1.870	1.814	1.583	1.604	1.640	1.717	1.634	1.445	1.664	8.11
69)	ETHYLBENZENE	3.246	3.197	2.826	2.734	3.221	3.217	3.088	2.738	3.033	7.52
70)	m,p-XYLENE	1.126	1.183	1.065	1.029	1.227	1.228	1.177	1.011	1.131	7.67
71)	o-XYLENE	1.109	1.171	1.053	1.030	1.248	1.221	1.153	0.981	1.121	8.43
72)	STYRENE		0.943	1.016	1.021	1.306	1.448	1.479	1.389	1.229	18.58
73)	NONANE	1.154	1.387	1.400	1.376	1.759	1.740	1.614	1.365	1.474	14.24
74)	BROMOFORM		1.029	1.112	0.997	1.127	1.198	1.139	1.023	1.089	6.78
75) S	4-BROMOFLUOROB...	0.968	0.994	1.031	1.080	1.095	1.098	1.081	1.030	1.047	4.68
76)	1,1,2,2-TETRAC...	1.763	1.656	1.291	1.175	1.571	1.570	1.492	1.281	1.475	13.95
77)	ISOPROPYLBENZENE	3.250	3.336	3.012	2.942	3.782	3.659	3.453	2.945	3.298	9.76
78)	2-CHLOROTOLUENE		0.691	0.578	0.594	0.727	0.742	0.711	0.632	0.668	9.92
79)	n-PROPYLBENZENE		0.678	0.688	0.627	0.825	0.869	0.835	0.739	0.752	12.33
80)	4-ETHYLTOLUENE		1.730	1.775	1.886	2.643	2.891	2.838	2.526	2.327	22.02
81)	1,3,5-TRIMETHY...		1.772	1.797	1.880	2.605	2.668	2.538	2.187	2.207	17.99
82)	TERT-BUTYLBENZENE		0.411	0.424	0.434	0.667	0.653	0.603	0.496	0.527	21.20
83)	1,2,4-TRIMETHY...		1.304	1.374	1.640	2.163	2.343	2.275	1.920	1.860	22.98
84)	m-DICHLOROBENZENE			0.524	0.599	0.913	0.979	0.993	0.956	0.827	25.25
85)	BENZYL CHLORIDE			0.368	0.621	1.119	1.231	1.258	1.206	0.967	39.07
86)	p-DICHLOROBENZENE			0.573	0.680	0.901	0.953	0.958	0.923	0.832	19.68
87)	SEC-BUTYLBENZENE			0.466	0.533	0.736	0.737	0.698	0.594	0.627	18.13
88)	p-ISOPROPYLTOL...			0.258	0.378	0.581	0.665	0.663	0.550	0.516	31.79
89)	o-DICHLOROBENZENE			0.512	0.594	0.894	0.931	0.950	0.890	0.795	23.98
90)	n-BUTYLBENZENE			0.392	0.221	0.388	0.428	0.454	0.447	0.388	22.26
91)	HEXACHLOROBUTA...			0.288	0.299	0.466	0.488	0.429	0.345	0.386	22.45
92)	1,2,4-TRICHLOR...			0.169	0.241	0.216	0.237	0.242	0.224	0.221	12.47
93)	CHLOROBENZENE-D5 (A)	-----ISTD-----									
94)	NAPHTHALENE			0.469	0.375	0.609	0.582	1.070	1.229	0.722	47.74

(H) = Out of Range

M2W1240.M Mon Feb 28 10:04:38 2011 BUTT

Initial Calibration Verification

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1240-ICV1240
Lab FileID: 2W29365.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w29365.d
Acq On : 21 Jan 2011 7:32 pm
Operator : YOU MINH
Sample : ICV1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 11:03:14 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	100	0.01
2	FREON 115	0.000	0.000	0.0	0#	0.00
3	DICHLORODIFLUOROMETHANE	5.459	4.249	22.2	91	0.00
4	FREON 152A	1.324	0.976	26.3	90	0.00
5	CHLORODIFLUOROMETHANE	0.511	0.398	22.1	90	0.00
6	PROPYLENE	1.530	1.233	19.4	90	0.00
7	FREON 114	6.136	4.884	20.4	89	0.00
8	CHLOROMETHANE	0.530	0.443	16.4	90	0.00
9	VINYL CHLORIDE	2.046	1.659	18.9	90	0.00
10	1,3-BUTADIENE	1.489	1.241	16.7	88	0.00
11	n-BUTANE	2.926	2.508	14.3	90	0.00
12	BROMOMETHANE	1.860	1.537	17.4	90	0.00
13	CHLOROETHANE	1.112	0.926	16.7	88	0.00
14	FREON 123	5.127	4.182	18.4	89	0.00
15	FREON 123A	2.917	2.344	19.6	88	0.00
16	TRICHLOROFLUOROMETHANE	5.355	4.181	21.9	89	0.00
17	ISOPROPYL ALCOHOL	2.726	2.230	18.2	82	0.00
18	ACETONE	0.697	0.537	23.0	77	0.00
19	PENTANE	2.032	1.721	15.3	91	0.00
20 H	TVHC as EQUIV PENTANE	9.559	8.585	10.2	89	0.00
21	IODOMETHANE	4.453	3.825	14.1	88	0.00
22	1,1-DICHLOROETHYLENE	1.841	1.605	12.8	89	0.00
23	CARBON DISULFIDE	5.046	3.974	21.2	88	0.00
24	ETHANOL	0.576	0.432	25.0	88	0.04
25	BROMOETHENE	1.763	1.523	13.6	89	0.00
26	METHYLENE CHLORIDE	1.550	1.288	16.9	88	0.00
27	3-CHLOROPROPENE	0.741	0.681	8.1	86	0.00
28	FREON 113	3.287	2.657	19.2	88	0.00
29	TRANS-1,2-DICHLOROETHYLENE	1.726	1.460	15.4	86	0.00
30	TERTIARY BUTYL ALCOHOL	3.412	2.830	17.1	83	0.04
31	METHYL TERTIARY BUTYL ETHER	5.242	4.483	14.5	82	0.01
32	TETRAHYDROFURAN	0.722	0.544	24.7	77	0.04
33	HEXANE	3.044	2.537	16.7	87	0.00
34	VINYL ACETATE	0.307	0.300	2.3	88	0.02
35	1,1-DICHLOROETHANE	3.464	2.967	14.3	87	0.00
36	METHYL ETHYL KETONE	0.641	0.499	22.2	77	0.00
37	cis-1,2-DICHLOROETHYLENE	1.636	1.516	7.3	86	0.00
38	ETHYL ACETATE	0.428	0.319	25.5	81	0.02

Initial Calibration Verification

Page 2 of 3

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1240-ICV1240
Lab FileID: 2W29365.D

39	CHLOROFORM	3.705	3.307	10.7	87	0.00
40	2,4-DIMETHYLPENTANE	4.178	3.428	18.0	88	0.00
41	1,1,1-TRICHLOROETHANE	4.450	3.636	18.3	87	0.00
42	CARBON TETRACHLORIDE	4.527	3.695	18.4	87	0.00
43	1,2-DICHLOROETHANE	1.881	1.717	8.7	83	0.00
44 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	92	0.00
45	BENZENE	1.105	1.028	7.0	87	0.00
46	CYCLOHEXANE	0.687	0.598	13.0	88	0.00
47	2,3-DIMETHYLPENTANE	0.324	0.281	13.3	88	0.00
48	TRICHLOROETHYLENE	0.460	0.404	12.2	86	0.00
49	1,2-DICHLOROPROPANE	0.384	0.383	0.3	87	0.00
50	BROMODICHLOROMETHANE	0.712	0.723	-1.5	91	0.00
51	2,2,4-TRIMETHYLPENTANE	2.153	1.867	13.3	88	0.00
52	1,4-DIOXANE	0.161	0.157	2.5	91	0.03
53	METHYL METHACRYLATE	0.344	0.314	8.7	80	0.01
54	HEPTANE	0.642	0.606	5.6	87	0.00
55 H	TVHC as EQUIV HEPTANE	2.815	2.919	-3.7	88	0.00
56	METHYL ISOBUTYL KETONE	0.270	0.243	10.0	81	0.02
57	cis-1,3-DICHLOROPROPENE	0.484	0.476	1.7	83	0.00
58	TOLUENE	0.692	0.679	1.9	85	0.00
59	trans-1,3-DICHLOROPROPENE	0.330	0.340	-3.0	81	0.00
60	1,1,2-TRICHLOROETHANE	0.323	0.330	-2.2	85	0.00
61 I	CHLOROBENZENE-D5	1.000	1.000	0.0	93	0.00
62	2-HEXANONE	0.595	0.505	15.1	78	0.02
63	TETRACHLOROETHYLENE	0.932	0.857	8.0	86	0.00
64	DIBROMOCHLOROMETHANE	1.352	1.336	1.2	85	0.00
65	1,2-DIBROMOETHANE	0.932	0.917	1.6	83	0.00
66	OCTANE	1.738	1.715	1.3	87	0.00
67	1,1,1,2-TETRACHLOROETHANE	1.206	1.107	8.2	86	0.00
68	CHLOROBENZENE	1.664	1.551	6.8	84	0.00
69	ETHYLBENZENE	3.033	2.897	4.5	84	0.00
70	m,p-XYLENE	1.131	1.098	2.9	83	0.00
71	o-XYLENE	1.121	1.094	2.4	83	0.00
72	STYRENE	1.229	1.258	-2.4	81	0.00
73	NONANE	1.474	1.601	-8.6	85	0.00
74	BROMOFORM	1.089	1.081	0.7	84	0.00
75 S	4-BROMOFLUOROBENZENE	1.047	1.095	-4.6	93	0.00
76	1,1,2,2-TETRACHLOROETHANE	1.475	1.419	3.8	84	0.00
77	ISOPROPYLBENZENE	3.298	3.281	0.5	83	0.00
78	2-CHLOROTOLUENE	0.668	0.668	0.0	84	0.00
79	n-PROPYLBENZENE	0.752	0.761	-1.2	81	0.00
80	4-ETHYLTOLUENE	2.327	2.508	-7.8	81	0.00
81	1,3,5-TRIMETHYLBENZENE	2.207	2.357	-6.8	82	0.00
82	TERT-BUTYLBENZENE	0.527	0.574	-8.9	82	0.00
83	1,2,4-TRIMETHYLBENZENE	1.860	2.040	-9.7	81	0.00
84	m-DICHLOROBENZENE	0.827	0.860	-4.0	82	0.00
85	BENZYL CHLORIDE	0.967	1.058	-9.4	80	0.00
86	p-DICHLOROBENZENE	0.832	0.851	-2.3	83	0.00
87	SEC-BUTYLBENZENE	0.627	0.653	-4.1	82	0.00
88	p-ISOPROPYLTOLUENE	0.516	0.561	-8.7	78	0.00
89	o-DICHLOROBENZENE	0.795	0.826	-3.9	82	0.00
90	n-BUTYLBENZENE	0.388	0.370	4.6	80	0.00
91	HEXACHLOROBUTADIENE	0.386	0.443	-14.8	84	0.00
92	1,2,4-TRICHLOROBENZENE	0.221	0.205	7.2	80	0.00
93	CHLOROBENZENE-D5 (A)	1.000	1.000	0.0	93	0.00
94	NAPHTHALENE	0.722	0.000	100.0#	0#	-18.41#

Continuing Calibration Summary

Page 1 of 2

Job Number: JA68565
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1256-CC1240
 Lab FileID: 2W29758.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2w\v2w1256\2W29758.D Vial: 2
 Acq On : 14 Feb 2011 7:33 am Operator: YOUMINH
 Sample : CC1240-10 Inst : MS2W
 Misc : MS8244,V2W1256,400,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W1240.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Feb 28 10:02:56 2011
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	146	0.00	7.30
2	FREON 115			-----NA-----			
3	DICHLORODIFLUOROMETHANE	5.459	4.424	19.0	138	0.00	3.83
4	FREON 152A	1.324	1.052	20.5	141	0.00	3.73
5	CHLORODIFLUOROMETHANE	0.511	0.443	13.3	146	0.00	3.76
6	PROPYLENE	1.530	1.366	10.7	146	0.00	3.78
7	FREON 114	6.136	5.025	18.1	135	0.00	3.99
8	CHLOROMETHANE	0.530	0.466	12.1	138	0.00	3.93
9	VINYL CHLORIDE	2.046	1.725	15.7	137	0.00	4.06
10	1,3-BUTADIENE	1.489	1.332	10.5	139	0.00	4.15
11	n-BUTANE	2.926	2.669	8.8	141	0.00	4.18
12	BROMOMETHANE	1.860	1.609	13.5	138	0.00	4.32
13	CHLOROETHANE	1.112	0.980	11.9	137	0.00	4.42
14	FREON 123	5.127	4.466	12.9	139	0.00	4.72
15	FREON 123A	2.917	2.488	14.7	137	0.00	4.76
16	TRICHLOROFLUOROMETHANE	5.355	4.567	14.7	142	-0.01	4.90
17	ISOPROPYL ALCOHOL	2.726	2.578	5.4	139	-0.03	5.08
18	ACETONE	0.697	0.600	13.9	126	-0.02	4.92
19	PENTANE	2.032	1.810	10.9	141	-0.01	5.14
20 H	TVHC as EQUIV PENTANE	9.559	9.429	1.4	143	0.00	5.14
21	IODOMETHANE	4.453	4.038	9.3	136	0.00	5.30
22	1,1-DICHLOROETHYLENE	1.841	1.701	7.6	138	-0.01	5.35
23	CARBON DISULFIDE	5.046	4.190	17.0	136	-0.01	5.68
24	ETHANOL	0.576	0.466	19.1	138	0.02	4.63
25	BROMOETHENE	1.763	1.590	9.8	136	0.00	4.64
26	METHYLENE CHLORIDE	1.550	1.340	13.5	134	0.00	5.44
27	3-CHLOROPROPENE	0.741	0.717	3.2	132	-0.01	5.53
28	FREON 113	3.287	2.836	13.7	138	-0.01	5.64
29	TRANS-1,2-DICHLOROETHYLEN	1.726	1.490	13.7	129	-0.01	6.21
30	TERTIARY BUTYL ALCOHOL	3.412	3.294	3.5	141	0.01	5.47
31	METHYL TERTIARY BUTYL ETH	5.242	4.965	5.3	134	0.00	6.49
32	TETRAHYDROFURAN	0.722	0.597	17.3	124	0.00	7.96
33	HEXANE	3.044	2.590	14.9	130	-0.01	7.36
34	VINYL ACETATE	0.307	0.328	-6.8	140	0.00	6.57
35	1,1-DICHLOROETHANE	3.464	3.096	10.6	133	0.00	6.39
36	METHYL ETHYL KETONE	0.641	0.543	15.3	123	-0.02	6.90
37	cis-1,2-DICHLOROETHYLENE	1.636	1.563	4.5	130	-0.01	7.15
38	ETHYL ACETATE	0.428	0.342	20.1	127	0.00	7.47
39	CHLOROFORM	3.705	3.508	5.3	135	0.00	7.42
40	2,4-DIMETHYLPENTANE	4.178	3.572	14.5	134	-0.01	8.20
41	1,1,1-TRICHLOROETHANE	4.450	3.892	12.5	137	-0.01	8.36
42	CARBON TETRACHLORIDE	4.527	3.854	14.9	133	-0.01	8.94

Continuing Calibration Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V2W1256-CC1240
Lab FileID: 2W29758.D

43		1,2-DICHLOROETHANE	1.881	1.885	-0.2	133	-0.01	8.12
44	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	144	-0.01	9.15
45		BENZENE	1.105	1.015	8.1	135	-0.01	8.80
46		CYCLOHEXANE	0.687	0.585	14.8	135	-0.01	9.06
47		2,3-DIMETHYLPENTANE	0.324	0.269	17.0	132	-0.01	9.31
48		TRICHLOROETHYLENE	0.460	0.385	16.3	129	-0.01	9.81
49		1,2-DICHLOROPROPANE	0.384	0.375	2.3	133	-0.01	9.58
50		BROMODICHLOROMETHANE	0.712	0.695	2.4	137	-0.01	9.76
51		2,2,4-TRIMETHYLPENTANE	2.153	1.816	15.7	135	-0.01	9.87
52		1,4-DIOXANE	0.161	0.166	-3.1	151	0.00	9.96
53		METHYL METHACRYLATE	0.344	0.316	8.1	126	0.00	10.07
54		HEPTANE	0.642	0.614	4.4	139	-0.01	10.13
55	H	TVHC as EQUIV HEPTANE	2.815	2.948	-4.7	140	0.00	10.13
56		METHYL ISOBUTYL KETONE	0.270	0.240	11.1	125	0.00	10.75
57		cis-1,3-DICHLOROPROPENE	0.484	0.473	2.3	130	-0.01	10.65
58		TOLUENE	0.692	0.705	-1.9	139	-0.01	11.59
59		trans-1,3-DICHLOROPROPENE	0.330	0.344	-4.2	129	-0.01	11.16
60		1,1,2-TRICHLOROETHANE	0.323	0.334	-3.4	136	-0.01	11.31
61	I	CHLOROBENZENE-D5	1.000	1.000	0.0	146	0.00	13.28
62		2-HEXANONE	0.595	0.520	12.6	125	0.00	11.92
63		TETRACHLOROETHYLENE	0.932	0.859	7.8	134	-0.01	12.66
64		DIBROMOCHLOROMETHANE	1.352	1.348	0.3	134	-0.01	11.97
65		1,2-DIBROMOETHANE	0.932	0.924	0.9	131	-0.01	12.20
66		OCTANE	1.738	1.782	-2.5	142	-0.01	12.57
67		1,1,1,2-TETRACHLOROETHANE	1.206	1.113	7.7	135	-0.01	13.29
68		CHLOROBENZENE	1.664	1.596	4.1	135	-0.01	13.31
69		ETHYLBENZENE	3.033	3.002	1.0	136	-0.01	13.69
70		m,p-XYLENE	1.131	1.142	-1.0	136	-0.01	13.87
71		o-XYLENE	1.121	1.122	-0.1	134	-0.01	14.31
72		STYRENE	1.229	1.302	-5.9	131	0.00	14.21
73		NONANE	1.474	1.614	-9.5	135	-0.01	14.57
74		BROMOFORM	1.089	1.065	2.2	130	-0.01	13.90
75	S	4-BROMOFLUOROBENZENE	1.047	1.010	3.5	134	-0.01	14.76
76		1,1,2,2-TETRACHLOROETHANE	1.475	1.417	3.9	132	0.00	14.31
77		ISOPROPYLBENZENE	3.298	3.303	-0.2	132	0.00	14.91
78		2-CHLOROTOLUENE	0.668	0.664	0.6	130	-0.01	15.38
79		n-PROPYLBENZENE	0.752	0.753	-0.1	126	-0.01	15.43
80		4-ETHYLTOLUENE	2.327	2.481	-6.6	125	-0.01	15.58
81		1,3,5-TRIMETHYLBENZENE	2.207	2.294	-3.9	125	-0.01	15.66
82		TERT-BUTYLBENZENE	0.527	0.558	-5.9	124	-0.01	16.06
83		1,2,4-TRIMETHYLBENZENE	1.860	1.989	-6.9	124	-0.01	16.07
84		m-DICHLOROBENZENE	0.827	0.812	1.8	121	-0.01	16.20
85		BENZYL CHLORIDE	0.967	0.978	-1.1	116	-0.01	16.19
86		p-DICHLOROBENZENE	0.832	0.789	5.2	121	-0.01	16.27
87		SEC-BUTYLBENZENE	0.627	0.632	-0.8	125	-0.01	16.34
88		p-ISOPROPYLTOLUENE	0.516	0.536	-3.9	117	-0.01	16.50
89		o-DICHLOROBENZENE	0.795	0.777	2.3	122	0.00	16.61
90		n-BUTYLBENZENE	0.388	0.350	9.8	119	-0.01	16.91
91		HEXACHLOROBUTADIENE	0.386	0.388	-0.5	116	-0.01	18.73
92		1,2,4-TRICHLOROBENZENE	0.221	0.167	24.4	103	-0.01	18.29
93		CHLOROBENZENE-D5(A)	1.000	1.000	0.0	146	0.00	13.28
94		NAPHTHALENE			-----NA-----			

(#) = Out of Range
 2W29354.D M2W1240.M

SPCC's out = 0 CCC's out = 0
 Wed Mar 02 07:56:01 2011 VOA-CLN-02

Initial Calibration Summary

Page 1 of 2

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W821-ICC821
Lab FileID: 3W20791.D

Response Factor Report MS3W

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration

Calibration Files

0.04=3W20781.D 0.1 =3W20780.D 0.2 =3W20789.D 0.5 =3W20778.D
 5 =3W20790.D 10 =3W20791.D 20 =3W20779.D 40 =3W20784.D

Compound	0.04	0.1	0.2	0.5	5	10	20	40	Avg	%RSD

1) I BROMOCHLOROMETHANE	-----ISTD-----									
2) FREON 115								0.000		-1.00
3) FREON 152A			1.262	1.082	0.679	0.648	0.617	0.572	0.810	35.56
4) CHLORODIFLUO	0.317	0.301	0.410	0.363	0.254	0.265	0.235	0.221	0.296	22.23
5) DICHLORODIFL	3.655	2.859	3.254	3.631	2.712	2.783	2.424	2.236	2.944	17.84
6) PROPYLENE			1.798	1.398	0.930	0.949	0.830	0.763	1.111	36.30
7) FREON 114	4.063	3.258	3.709	4.234	3.168	3.285	2.869	2.612	3.400	16.57
8) CHLOROMETHAN		1.294	1.577	1.765	1.233	1.070	0.938	0.888	1.252	25.97
9) VINYL CHLORI	1.195	1.173	1.337	1.550	1.126	1.183	1.053	0.989	1.201	14.55
10) 1,3-BUTADIEN	1.249	1.007	0.997	1.096	0.831	0.883	0.807	0.756	0.953	17.41
11) n-BUTANE		2.241	2.186	2.424	1.765	1.835	1.613	1.496	1.937	18.02
12) BROMOMETHANE	1.541	1.069	1.288	1.467	1.110	1.170	1.064	0.989	1.212	16.57
13) CHLOROETHANE	0.628	0.596	0.513	0.734	0.545	0.539	0.564	0.516	0.579	12.72
14) FREON 123	2.964	2.640	2.168	3.264	2.053	2.281	2.442	2.200	2.501	17.03
15) FREON 123A	1.610	1.605	1.242	1.876	1.186	1.338	1.403	1.279	1.442	16.31
16) TRICHLOROFLU	3.314	2.795	2.873	3.689	2.641	2.835	2.517	2.286	2.869	15.54
17) ISOPROPYL AL			1.428	1.678	1.379	1.787	1.821	1.697	1.632	11.36
18) ACETONE		0.324	0.391	0.454	0.317	0.423	0.439	0.417	0.395	13.77
19) PENTANE			1.570	1.760	1.174	1.261	1.131	1.095	1.332	20.32
20) TVHC as EQUI								0.000		-1.00
21) IODOMETHANE	3.401	2.956	3.126	4.157	3.193	3.283	3.188	2.925	3.278	11.84
22) 1,1-DICHLORO	1.571	1.097	1.198	1.442	1.054	1.123	1.044	0.952	1.185	17.98
23) CARBON DISUL	4.263	3.230	3.969	4.426	3.198	3.323	2.970	2.716	3.512	17.85
24) ETHANOL				0.564	0.314	0.390	0.394	0.374	0.407	22.89
25) BROMOETHENE	1.284	1.013	1.231	1.512	1.136	1.211	1.113	1.036	1.192	13.41
26) METHYLENE CH			1.061	1.265	0.782	0.820	0.872	0.796	0.933	20.61
27) 3-CHLOROPROP	0.372	0.402	0.382	0.567	0.363	0.415	0.462	0.422	0.423	15.63
28) FREON 113	2.027	1.925	1.833	2.585	1.914	2.039	1.895	1.734	1.994	12.95
29) TRANS-1,2-DI	1.423	1.089	0.950	1.323	1.082	1.042	1.096	1.005	1.126	14.40
30) TERTIARY BUT			1.244	1.988	1.616	2.052	2.287	1.985	1.862	19.95
31) METHYL TERTI			1.916	3.115	1.883	2.548	2.687	2.498	2.441	19.37
32) TETRAHYDROFU			0.256	0.410	0.335	0.451	0.485	0.461	0.400	22.00
33) HEXANE	1.984	1.841	1.758	2.295	1.618	1.761	1.607	1.461	1.791	14.45
34) VINYL ACETAT			0.100	0.211	0.146	0.200	0.224	0.213	0.183	26.77
35) 1,1-DICHLORO	2.110	1.862	1.563	2.359	1.482	1.668	1.838	1.655	1.817	16.21
36) METHYL ETHYL		0.248	0.232	0.391	0.329	0.442	0.486	0.460	0.370	27.72
37) cis-1,2-DICH	1.141	1.097	0.926	1.319	0.869	0.994	1.079	0.995	1.053	13.33
38) DIISOPROPYL	2.966	2.440	2.330	3.622	2.298	3.109	3.235	2.969	2.871	16.54
39) ETHYL ACETAT			0.165	0.263	0.204	0.280	0.326	0.316	0.259	24.45
40) CHLOROFORM	2.455	2.045	1.808	2.621	1.680	1.922	2.028	1.847	2.051	15.90
41) 2,4-DIMETHYL	2.355	1.990	1.837	2.643	1.903	1.898	1.956	1.763	2.043	14.67
42) 1,1,1-TRICHL	2.423	1.946	1.834	2.571	1.651	1.878	2.025	1.838	2.021	15.59
43) CARBON TETRA	2.373	1.999	1.997	2.890	2.223	2.176	2.232	2.015	2.238	13.21
44) 1,2-DICHLORO	0.515	1.015	0.906	1.380	0.859	1.066	1.169	1.092	1.000	25.36

45) I 1,4-DIFLUOROBENZENE -----ISTD-----

5.9.4
5

Initial Calibration Summary

Page 2 of 2

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W821-ICC821
Lab FileID: 3W20791.D

46)	BENZENE	0.716	0.617	0.528	0.795	0.436	0.532	0.612	0.547	0.598	19.10
47)	CYCLOHEXANE	0.459	0.375	0.387	0.511	0.334	0.358	0.340	0.302	0.383	18.07
48)	2,3-DIMETHYL		0.148	0.133	0.230	0.130	0.135	0.147	0.132	0.151	23.76
49)	TRICHLOROETH	0.339	0.259	0.444	0.342	0.216	0.241	0.265	0.240	0.293	26.05
50)	1,2-DICHLORO		0.260	0.186	0.286	0.156	0.203	0.235	0.213	0.220	20.24
51)	BROMODICHLOR	0.460	0.398	0.367	0.556	0.328	0.383	0.430	0.383	0.413	16.93
52)	2,2,4-TRIMET	1.222	1.080	0.945	1.348	0.816	0.909	0.988	0.870	1.022	17.93
53)	1,4-DIOXANE			0.061	0.086	0.088	0.119	0.139	0.133	0.104	29.39
54)	HEPTANE	0.535	0.454	0.413	0.541	0.323	0.355	0.374	0.335	0.416	20.66
55)	TVHC as EQUI									0.000	-1.00
56)	METHYL METHA		0.103	0.113	0.184	0.127	0.171	0.209	0.192	0.157	26.70
57)	METHYL ISOBU			0.080	0.139	0.099	0.136	0.182	0.168	0.134	29.24
58)	cis-1,3-DICH	0.255	0.240	0.211	0.378	0.229	0.292	0.341	0.315	0.283	20.81
59)	TOLUENE	0.432	0.364	0.334	0.508	0.278	0.363	0.414	0.376	0.384	17.98
60)	trans-1,3-DI	0.170	0.151	0.145	0.251	0.175	0.234	0.281	0.260	0.208	25.85
61)	1,1,2-TRICHL	0.173	0.147	0.134	0.228	0.140	0.181	0.207	0.189	0.175	19.02
62)	I CHLOROBENZENE-D5										
63)	2-HEXANONE			0.229	0.372	0.265	0.361	0.487	0.432	0.358	27.24
64)	TETRACHLOROE	0.902	0.797	0.761	0.899	0.530	0.595	0.639	0.553	0.709	21.18
65)	DIBROMOCHLOR	0.940	0.898	0.771	1.136	0.666	0.820	0.927	0.810	0.871	16.08
66)	1,2-DIBROMOE	0.719	0.570	0.527	0.786	0.509	0.649	0.744	0.659	0.645	15.85
67)	OCTANE		1.389	1.198	1.556	0.836	0.966	1.030	0.858	1.119	24.47
68)	1,1,1,2-TETR	0.581	0.616	0.542	0.825	0.448	0.584	0.648	0.570	0.602	17.89
69)	CHLOROBENZEN	1.290	0.953	0.927	1.295	0.744	0.937	1.044	0.915	1.013	18.85
70)	ETHYLBENZENE	1.892	1.404	1.401	2.063	1.183	1.550	1.688	1.457	1.580	18.21
71)	m,p-XYLENE	0.682	0.520	0.525	0.741	0.449	0.582	0.649	0.565	0.589	16.29
72)	o-XYLENE	0.633	0.458	0.476	0.705	0.442	0.561	0.616	0.540	0.554	16.86
73)	STYRENE	0.510	0.479	0.465	0.719	0.565	0.763	0.902	0.801	0.650	25.59
74)	NONANE	1.319	0.898	0.826	1.103	0.693	0.861	0.918	0.757	0.922	21.81
75)	BROMOFORM	0.748	0.592	1.099	0.797	0.551	0.731	0.827	0.735	0.760	21.94
76)	4-BROMOFLUOR	0.937	0.926	0.933	0.959	1.217	1.217	1.179	1.137	1.063	12.76
77)	1,1,2,2-TETR	0.538	0.467	0.403	0.572	0.532	0.698	0.784	0.683	0.585	21.84
78)	1,2,3-TRICHL	0.356	0.340	0.370	0.468	0.409	0.538	0.620	0.528	0.454	22.36
79)	ISOPROPYLBEN	1.617	1.319	1.297	1.789	1.236	1.605	1.744	1.483	1.511	13.94
80)	2-CHLOROTOLU	0.366	0.324	0.293	0.374	0.290	0.368	0.409	0.355	0.347	11.99
81)	n-PROPYLBENZ	0.381	0.281	0.291	0.365	0.302	0.394	0.441	0.382	0.355	16.09
82)	4-ETHYLTOLUE	1.128	0.888	0.922	1.216	0.994	1.320	1.475	1.242	1.148	17.81
83)	1,3,5-TRIMET	0.979	0.858	0.810	1.023	0.836	1.091	1.201	0.990	0.973	13.86
84)	tert-BUTYLBE	0.299	0.195	0.187	0.242	0.199	0.266	0.299	0.253	0.243	18.66
85)	1,2,4-TRIMET	0.714	0.665	0.693	0.854	0.749	0.967	1.091	0.912	0.831	18.22
86)	m-DICHLOROB	0.463	0.419	0.400	0.502	0.465	0.603	0.701	0.606	0.520	20.36
87)	BENZYL CHLOR			0.398	0.467	0.434	0.601	0.775	0.670	0.557	26.68
88)	p-DICHLOROB	0.553	0.457	0.407	0.502	0.441	0.572	0.663	0.567	0.520	16.17
89)	sec-BUTYLBEN	0.206	0.169	0.195	0.264	0.226	0.298	0.335	0.287	0.248	23.21
90)	p-ISOPROPYLT			0.183	0.245	0.216	0.283	0.344	0.303	0.262	22.50
91)	o-DICHLOROB			0.297	0.390	0.387	0.509	0.598	0.516	0.449	24.48
92)	n-BUTYLBENZE			0.137	0.164	0.150	0.204	0.266	0.240	0.194	26.73
93)	HEXACHLOROB			0.107	0.120	0.168	0.207	0.233	0.195	0.172	29.01
94)	1,2,4-TRICHL			0.092	0.070	0.103	0.142	0.119	0.116	0.107	23.17

95) I CHLOROBENZENE-D5 (a) -----ISTD-----
96) NAPHTHALENE 0.406 0.523 0.943 0.581 0.871 0.754 0.680 30.90

(#) = Out of Range ### Number of calibration levels exceeded format ###

M3W821.M

Wed Feb 16 16:19:15 2011

MS3W

Initial Calibration Verification

Page 1 of 3

Job Number: JA68565
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W821-ICV821
 Lab FileID: 3W20792.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W20792.D

Vial: 3

Acq On : 16 Feb 2011 12:49 pm

Operator: yunxiac

Sample : ICV821-10

Inst : MS3W

Misc : MS7827,V3W821,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)

Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

Last Update : Wed Feb 16 16:16:09 2011

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	103	0.00	7.57
2	FREON 115			-----NA-----			
3	FREON 152A	0.810	0.625	22.8	99	0.00	4.28
4	CHLORODIFLUOROMETHANE	0.296	0.257	13.2	100	0.00	4.31
5	DICHLORODIFLUOROMETHANE	2.944	2.739	7.0	101	0.00	4.37
6	PROPYLENE	1.111	0.916	17.6	99	0.00	4.32
7	FREON 114	3.400	3.167	6.9	99	0.00	4.53
8	CHLOROMETHANE	1.252	1.034	17.4	100	0.00	4.48
9	VINYL CHLORIDE	1.201	1.160	3.4	101	0.00	4.61
10	1,3-BUTADIENE	0.953	0.864	9.3	101	0.00	4.69
11	n-BUTANE	1.937	1.791	7.5	101	0.00	4.71
12	BROMOMETHANE	1.212	1.149	5.2	101	0.00	4.87
13	CHLOROETHANE	0.579	0.528	8.8	101	0.00	4.97
14	FREON 123	2.501	2.214	11.5	100	0.00	5.27
15	FREON 123A	1.442	1.281	11.2	99	-0.01	5.30
16	TRICHLOROFLUOROMETHANE	2.869	2.716	5.3	99	0.00	5.45
17	ISOPROPYL ALCOHOL	1.632	1.679	-2.9	97	0.00	5.56
18	ACETONE	0.395	0.401	-1.5	98	0.00	5.37
19	PENTANE	1.332	1.196	10.2	98	0.00	5.64
20 H	TVHC as EQUIV PENTANE			-----NA-----			
21	IODOMETHANE	3.278	3.238	1.2	102	0.00	5.83
22	1,1-DICHLOROETHYLENE	1.185	1.099	7.3	101	0.00	5.87
23	CARBON DISULFIDE	3.512	3.203	8.8	99	0.00	6.17
24	ETHANOL	0.407	0.370	9.1	98	0.00	5.11
25	BROMOETHENE	1.192	1.176	1.3	100	0.00	5.19
26	METHYLENE CHLORIDE	0.933	0.798	14.5	100	0.00	5.97
27	3-CHLOROPROPENE	0.423	0.405	4.3	101	0.00	6.03
28	FREON 113	1.994	1.999	-0.3	101	0.00	6.11
29	TRANS-1,2-DICHLOROETHYLEN	1.126	1.039	7.7	103	0.00	6.59
30	TERTIARY BUTYL ALCOHOL	1.862	1.943	-4.4	98	-0.04	5.95
31	METHYL TERTIARY BUTYL ETH	2.441	2.409	1.3	97	0.00	6.78
32	TETRAHYDROFURAN	0.400	0.425	-6.2	97	0.00	8.01
33	HEXANE	1.791	1.687	5.8	99	0.00	7.49
34	VINYL ACETATE	0.183	0.198	-8.2	102	0.00	6.87
35	1,1-DICHLOROETHANE	1.817	1.626	10.5	100	0.00	6.76
36	METHYL ETHYL KETONE	0.370	0.425	-14.9	99	0.00	7.07
37	cis-1,2-DICHLOROETHYLENE	1.053	0.967	8.2	100	0.00	7.45
38	DIISOPROPYL ETHER	2.871	2.911	-1.4	96	0.00	7.51
39	ETHYL ACETATE	0.259	0.279	-7.7	103	0.00	7.59
40	CHLOROFORM	2.051	1.850	9.8	99	0.00	7.66
41	2,4-DIMETHYLPENTANE	2.043	1.834	10.2	100	0.00	8.21
42	1,1,1-TRICHLOROETHANE	2.021	1.823	9.8	100	0.00	8.47

Initial Calibration Verification

Page 2 of 3

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W821-ICV821
Lab FileID: 3W20792.D

43		CARBON TETRACHLORIDE	2.238	2.114	5.5	100	0.00	9.02
44		1,2-DICHLOROETHANE	1.000	1.032	-3.2	100	0.00	8.26
45	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	105	0.00	9.20
46		BENZENE	0.598	0.510	14.7	100	0.00	8.89
47		CYCLOHEXANE	0.383	0.338	11.7	99	0.00	9.06
48		2,3-DIMETHYLPENTANE	0.151	0.129	14.6	100	0.00	9.24
49		TRICHLOROETHYLENE	0.293	0.227	22.5	98	0.00	9.82
50		1,2-DICHLOROPROPANE	0.220	0.189	14.1	98	0.00	9.59
51		BROMODICHLOROMETHANE	0.413	0.362	12.3	99	0.00	9.81
52		2,2,4-TRIMETHYLPENTANE	1.022	0.857	16.1	99	0.00	9.75
53		1,4-DIOXANE	0.104	0.115	-10.6	101	0.00	9.90
54		HEPTANE	0.416	0.336	19.2	99	0.00	10.01
55	H	TVHC as EQUIV HEPTANE			-----NA-----			
56		METHYL METHACRYLATE	0.157	0.165	-5.1	101	0.00	10.03
57		METHYL ISOBUTYL KETONE	0.134	0.130	3.0	100	0.00	10.66
58		cis-1,3-DICHLOROPROPENE	0.283	0.281	0.7	101	0.00	10.65
59		TOLUENE	0.384	0.344	10.4	99	0.00	11.57
60		trans-1,3-DICHLOROPROPENE	0.208	0.221	-6.3	99	0.00	11.16
61		1,1,2-TRICHLOROETHANE	0.175	0.170	2.9	98	0.00	11.31
62	I	CHLOROBENZENE-D5	1.000	1.000	0.0	106	0.00	13.38
63		2-HEXANONE	0.358	0.346	3.4	101	0.00	11.86
64		TETRACHLOROETHYLENE	0.709	0.561	20.9	100	0.00	12.70
65		DIBROMOCHLOROMETHANE	0.871	0.772	11.4	99	0.00	12.01
66		1,2-DIBROMOETHANE	0.645	0.608	5.7	99	0.00	12.22
67		OCTANE	1.119	0.888	20.6	97	0.00	12.48
68		1,1,1,2-TETRACHLOROETHANE	0.602	0.543	9.8	98	0.00	13.40
69		CHLOROBENZENE	1.013	0.870	14.1	98	0.00	13.43
70		ETHYLBENZENE	1.580	1.440	8.9	98	0.00	13.79
71		m,p-XYLENE	0.589	0.542	8.0	98	0.00	13.97
72		o-XYLENE	0.554	0.519	6.3	98	0.00	14.48
73		STYRENE	0.650	0.713	-9.7	99	0.00	14.39
74		NONANE	0.922	0.791	14.2	97	0.00	14.67
75		BROMOFORM	0.760	0.676	11.1	98	0.00	14.09
76	S	4-BROMOFLUOROBENZENE	1.063	1.215	-14.3	105	0.00	15.01
77		1,1,2,2-TETRACHLOROETHANE	0.585	0.639	-9.2	97	0.00	14.51
78		1,2,3-TRICHLOROPROPANE	0.454	0.505	-11.2	99	0.00	14.64
79		ISOPROPYLBENZENE	1.511	1.480	2.1	98	0.00	15.13
80		2-CHLOROTOLUENE	0.347	0.346	0.3	99	0.00	15.70
81		n-PROPYLBENZENE	0.355	0.364	-2.5	98	0.00	15.72
82		4-ETHYLTOLUENE	1.148	1.226	-6.8	98	0.00	15.89
83		1,3,5-TRIMETHYLBENZENE	0.973	1.001	-2.9	97	0.00	15.99
84		tert-BUTYLBENZENE	0.243	0.242	0.4	96	0.00	16.47
85		1,2,4-TRIMETHYLBENZENE	0.831	0.892	-7.3	98	0.00	16.48
86		m-DICHLOROBENZENE	0.520	0.561	-7.9	98	0.00	16.67
87		BENZYL CHLORIDE	0.557	0.566	-1.6	100	0.00	16.67
88		p-DICHLOROBENZENE	0.520	0.530	-1.9	98	0.00	16.77
89		sec-BUTYLBENZENE	0.248	0.268	-8.1	95	0.00	16.80
90		p-ISOPROPYLTOLUENE	0.262	0.269	-2.7	100	0.00	16.99
91		o-DICHLOROBENZENE	0.449	0.473	-5.3	98	0.00	17.19
92		n-BUTYLBENZENE	0.194	0.193	0.5	100	0.00	17.50
93		HEXACHLOROBUTADIENE	0.172	0.183	-6.4	93	0.00	19.77
94		1,2,4-TRICHLOROBENZENE	0.107	0.116	-8.4	86	0.00	19.22
95	I	CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	106	0.00	13.38
96		NAPHTHALENE			-----NA-----			

Continuing Calibration Summary

Job Number: JA68565
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W828-CC821
 Lab FileID: 3W20972.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W20972.D Vial: 2
 Acq On : 24 Feb 2011 7:25 am Operator: yunxiac
 Sample : CC821-10 Inst : MS3W
 Misc : MS8082,V3W828,100,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	137	0.00	7.57
2	FREON 115			-----NA-----			
3	FREON 152A	0.810	0.719	11.2	152	0.00	4.29
4	CHLORODIFLUOROMETHANE	0.296	0.277	6.4	143	0.00	4.32
5	DICHLORODIFLUOROMETHANE	2.944	2.821	4.2	139	0.00	4.38
6	PROPYLENE	1.111	1.072	3.5	155	0.00	4.34
7	FREON 114	3.400	3.229	5.0	135	0.00	4.54
8	CHLOROMETHANE	1.252	1.361	-8.7	174	0.00	4.49
9	VINYL CHLORIDE	1.201	1.205	-0.3	140	0.00	4.62
10	1,3-BUTADIENE	0.953	0.929	2.5	144	0.00	4.70
11	n-BUTANE	1.937	2.056	-6.1	154	0.00	4.73
12	BROMOMETHANE	1.212	1.145	5.5	134	0.00	4.88
13	CHLOROETHANE	0.579	0.636	-9.8	162	0.01	4.98
14	FREON 123	2.501	2.537	-1.4	152	0.00	5.27
15	FREON 123A	1.442	1.417	1.7	145	0.00	5.31
16	TRICHLOROFLUOROMETHANE	2.869	2.799	2.4	135	0.00	5.46
17	ISOPROPYL ALCOHOL	1.632	1.569	3.9	120	0.00	5.56
18	ACETONE	0.395	0.346	12.4	112	0.00	5.38
19	PENTANE	1.332	1.418	-6.5	154	0.00	5.65
20 H	TVHC as EQUIV PENTANE			-----NA-----			
21	IODOMETHANE	3.278	3.176	3.1	133	0.00	5.83
22	1,1-DICHLOROETHYLENE	1.185	1.084	8.5	132	0.00	5.88
23	CARBON DISULFIDE	3.512	3.268	6.9	135	0.00	6.17
24	ETHANOL	0.407	0.351	13.8	124	0.00	5.11
25	BROMOETHENE	1.192	1.164	2.3	132	0.00	5.20
26	METHYLENE CHLORIDE	0.933	0.968	-3.8	162	0.00	5.97
27	3-CHLOROPROPENE	0.423	0.453	-7.1	150	0.00	6.03
28	FREON 113	1.994	1.892	5.1	127	0.00	6.11
29	TRANS-1,2-DICHLOROETHYLEN	1.126	1.148	-2.0	151	0.00	6.59
30	TERTIARY BUTYL ALCOHOL	1.862	1.834	1.5	122	-0.04	5.95
31	METHYL TERTIARY BUTYL ETH	2.441	1.927	21.1	104	0.00	6.79
32	TETRAHYDROFURAN	0.400	0.339	15.3	103	0.00	8.01
33	HEXANE	1.791	1.807	-0.9	141	0.00	7.49
34	VINYL ACETATE	0.183	0.156	14.8	106	0.00	6.87
35	1,1-DICHLOROETHANE	1.817	1.873	-3.1	154	0.00	6.76
36	METHYL ETHYL KETONE	0.370	0.345	6.8	107	0.00	7.07
37	cis-1,2-DICHLOROETHYLENE	1.053	1.034	1.8	142	0.00	7.45
38	DIISOPROPYL ETHER	2.871	2.565	10.7	113	0.00	7.51
39	ETHYL ACETATE	0.259	0.229	11.6	112	0.00	7.59
40	CHLOROFORM	2.051	2.095	-2.1	149	0.00	7.65
41	2,4-DIMETHYLPENTANE	2.043	2.277	-11.5	164	0.00	8.21
42	1,1,1-TRICHLOROETHANE	2.021	2.036	-0.7	149	0.00	8.47

Continuing Calibration Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W828-CC821
Lab FileID: 3W20972.D

Page 2 of 3

43	CARBON TETRACHLORIDE	2.238	2.399	-7.2	151	0.00	9.02
44	1,2-DICHLOROETHANE	1.000	1.151	-15.1	148	0.00	8.26
45 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	133	0.00	9.20
46	BENZENE	0.598	0.574	4.0	143	0.00	8.89
47	CYCLOHEXANE	0.383	0.381	0.5	142	0.00	9.06
48	2,3-DIMETHYLPENTANE	0.151	0.161	-6.6	159	0.00	9.24
49	TRICHLOROETHYLENE	0.293	0.263	10.2	145	0.00	9.82
50	1,2-DICHLOROPROPANE	0.220	0.214	2.7	140	0.00	9.58
51	BROMODICHLOROMETHANE	0.413	0.412	0.2	143	0.00	9.80
52	2,2,4-TRIMETHYLPENTANE	1.022	1.036	-1.4	151	0.00	9.75
53	1,4-DIOXANE	0.104	0.093	10.6	104	0.00	9.91
54	HEPTANE	0.416	0.454	-9.1	170	0.00	10.00
55 H	TVHC as EQUIV HEPTANE	-----NA-----					
56	METHYL METHACRYLATE	0.157	0.137	12.7	107	0.00	10.03
57	METHYL ISOBUTYL KETONE	0.134	0.129	3.7	126	0.00	10.66
58	cis-1,3-DICHLOROPROPENE	0.283	0.299	-5.7	136	0.00	10.65
59	TOLUENE	0.384	0.355	7.6	130	0.00	11.56
60	trans-1,3-DICHLOROPROPENE	0.208	0.236	-13.5	134	0.00	11.15
61	1,1,2-TRICHLOROETHANE	0.175	0.180	-2.9	132	0.00	11.31
62 I	CHLOROBENZENE-D5	1.000	1.000	0.0	137	0.00	13.37
63	2-HEXANONE	0.358	0.310	13.4	117	0.00	11.86
64	TETRACHLOROETHYLENE	0.709	0.576	18.8	132	0.00	12.70
65	DIBROMOCHLOROMETHANE	0.871	0.789	9.4	132	0.00	12.01
66	1,2-DIBROMOETHANE	0.645	0.616	4.5	130	0.00	12.22
67	OCTANE	1.119	1.115	0.4	158	0.00	12.48
68	1,1,1,2-TETRACHLOROETHANE	0.602	0.528	12.3	123	0.00	13.40
69	CHLOROBENZENE	1.013	0.859	15.2	125	0.00	13.42
70	ETHYLBENZENE	1.580	1.373	13.1	121	0.00	13.78
71	m,p-XYLENE	0.589	0.475	19.4	111	0.00	13.97
72	o-XYLENE	0.554	0.449	19.0	109	0.00	14.48
73	STYRENE	0.650	0.633	2.6	114	0.00	14.38
74	NONANE	0.922	0.960	-4.1	152	0.00	14.66
75	BROMOFORM	0.760	0.641	15.7	120	0.00	14.08
76 S	4-BROMOFLUOROBENZENE	1.063	1.186	-11.6	133	0.00	15.00
77	1,1,2,2-TETRACHLOROETHANE	0.585	0.569	2.7	111	0.00	14.50
78	1,2,3-TRICHLOROPROPANE	0.454	0.433	4.6	110	0.00	14.63
79	ISOPROPYLBENZENE	1.511	1.231	18.5	105	0.00	15.12
80	2-CHLOROTOLUENE	0.347	0.348	-0.3	129	0.00	15.69
81	n-PROPYLBENZENE	0.355	0.316	11.0	110	0.00	15.71
82	4-ETHYLTOLUENE	1.148	1.073	6.5	111	0.00	15.88
83	1,3,5-TRIMETHYLBENZENE	0.973	0.891	8.4	112	0.00	15.98
84	tert-BUTYLBENZENE	0.243	0.207	14.8	106	0.00	16.46
85	1,2,4-TRIMETHYLBENZENE	0.831	0.794	4.5	112	0.00	16.47
86	m-DICHLOROBENZENE	0.520	0.549	-5.6	124	0.00	16.67
87	BENZYL CHLORIDE	0.557	0.544	2.3	124	0.00	16.67
88	p-DICHLOROBENZENE	0.520	0.520	0.0	124	0.00	16.76
89	sec-BUTYLBENZENE	0.248	0.237	4.4	108	0.00	16.80
90	p-ISOPROPYLTOLUENE	0.262	0.240	8.4	116	0.00	16.98
91	o-DICHLOROBENZENE	0.449	0.455	-1.3	122	0.00	17.18
92	n-BUTYLBENZENE	0.194	0.187	3.6	125	0.00	17.50
93	HEXACHLOROBUTADIENE	0.172	0.185	-7.6	122	0.00	19.77
94	1,2,4-TRICHLOROBENZENE	0.107	0.108	-0.9	104	0.00	19.22
95 I	CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	137	0.00	13.37
96	NAPHTHALENE	-----NA-----					

Continuing Calibration Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W828-CC821
Lab FileID: 3W20972.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W20791.D M3W821.M Thu Feb 24 09:15:18 2011 MS3W

5.9.6
5

Continuing Calibration Summary

Job Number: JA68565
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W829-CC821
 Lab FileID: 3W21003.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W21003.D Vial: 2
 Acq On : 25 Feb 2011 6:55 am Operator: yunxiac
 Sample : CC821-10 Inst : MS3W
 Misc : MS8082,V3W829,100,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	124	0.00	7.57
2	FREON 115			-----NA-----			
3	FREON 152A	0.810	0.806	0.5	154	0.00	4.29
4	CHLORODIFLUOROMETHANE	0.296	0.315	-6.4	147	0.00	4.32
5	DICHLORODIFLUOROMETHANE	2.944	3.205	-8.9	143	0.00	4.38
6	PROPYLENE	1.111	1.217	-9.5	159	0.00	4.33
7	FREON 114	3.400	3.577	-5.2	135	0.00	4.54
8	CHLOROMETHANE	1.252	1.529	-22.1	177	0.00	4.49
9	VINYL CHLORIDE	1.201	1.341	-11.7	140	0.00	4.62
10	1,3-BUTADIENE	0.953	1.026	-7.7	144	0.00	4.70
11	n-BUTANE	1.937	2.317	-19.6	156	0.00	4.73
12	BROMOMETHANE	1.212	1.287	-6.2	136	0.00	4.88
13	CHLOROETHANE	0.579	0.722	-24.7	166	0.01	4.98
14	FREON 123	2.501	2.769	-10.7	150	0.00	5.27
15	FREON 123A	1.442	1.543	-7.0	143	0.00	5.31
16	TRICHLOROFLUOROMETHANE	2.869	3.124	-8.9	136	0.00	5.46
17	ISOPROPYL ALCOHOL	1.632	1.883	-15.4	130	0.02	5.58
18	ACETONE	0.395	0.407	-3.0	119	0.01	5.38
19	PENTANE	1.332	1.601	-20.2	157	0.01	5.65
20 H	TVHC as EQUIV PENTANE			-----NA-----			
21	IODOMETHANE	3.278	3.589	-9.5	135	0.00	5.84
22	1,1-DICHLOROETHYLENE	1.185	1.203	-1.5	133	0.00	5.88
23	CARBON DISULFIDE	3.512	3.699	-5.3	138	0.00	6.17
24	ETHANOL	0.407	0.409	-0.5	130	0.02	5.13
25	BROMOETHENE	1.192	1.284	-7.7	131	0.00	5.20
26	METHYLENE CHLORIDE	0.933	1.084	-16.2	164	0.00	5.97
27	3-CHLOROPROPENE	0.423	0.478	-13.0	142	0.00	6.03
28	FREON 113	1.994	2.145	-7.6	130	0.00	6.12
29	TRANS-1,2-DICHLOROETHYLEN	1.126	1.296	-15.1	154	0.00	6.60
30	TERTIARY BUTYL ALCOHOL	1.862	2.179	-17.0	132	-0.02	5.97
31	METHYL TERTIARY BUTYL ETH	2.441	2.253	7.7	110	0.00	6.79
32	TETRAHYDROFURAN	0.400	0.391	2.3	107	0.00	8.02
33	HEXANE	1.791	2.059	-15.0	145	0.00	7.49
34	VINYL ACETATE	0.183	0.173	5.5	107	0.00	6.88
35	1,1-DICHLOROETHANE	1.817	2.011	-10.7	149	0.00	6.77
36	METHYL ETHYL KETONE	0.370	0.400	-8.1	112	0.00	7.08
37	cis-1,2-DICHLOROETHYLENE	1.053	1.118	-6.2	139	0.00	7.45
38	DIISOPROPYL ETHER	2.871	3.055	-6.4	122	0.00	7.52
39	ETHYL ACETATE	0.259	0.269	-3.9	119	0.00	7.60
40	CHLOROFORM	2.051	2.295	-11.9	148	0.00	7.66
41	2,4-DIMETHYLPENTANE	2.043	2.576	-26.1	168	0.00	8.22
42	1,1,1-TRICHLOROETHANE	2.021	2.213	-9.5	146	0.00	8.48

Continuing Calibration Summary

Page 2 of 3

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W829-CC821
Lab FileID: 3W21003.D

43	CARBON TETRACHLORIDE	2.238	2.708	-21.0	154	0.00	9.02
44	1,2-DICHLOROETHANE	1.000	1.241	-24.1	144	0.00	8.27
45 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	117	0.00	9.21
46	BENZENE	0.598	0.630	-5.4	138	0.00	8.89
47	CYCLOHEXANE	0.383	0.448	-17.0	146	0.00	9.06
48	2,3-DIMETHYLPENTANE	0.151	0.186	-23.2	161	0.00	9.25
49	TRICHLOROETHYLENE	0.293	0.298	-1.7	144	0.00	9.82
50	1,2-DICHLOROPROPANE	0.220	0.241	-9.5	139	0.00	9.59
51	BROMODICHLOROMETHANE	0.413	0.461	-11.6	140	0.00	9.81
52	2,2,4-TRIMETHYLPENTANE	1.022	1.174	-14.9	151	0.00	9.76
53	1,4-DIOXANE	0.104	0.114	-9.6	111	0.01	9.92
54	HEPTANE	0.416	0.529	-27.2	174	0.00	10.01
55 H	TVHC as EQUIV HEPTANE			-----NA-----			
56	METHYL METHACRYLATE	0.157	0.166	-5.7	113	0.00	10.04
57	METHYL ISOBUTYL KETONE	0.134	0.160	-19.4	137	0.00	10.68
58	cis-1,3-DICHLOROPROPENE	0.283	0.344	-21.6	137	0.00	10.65
59	TOLUENE	0.384	0.406	-5.7	131	0.00	11.57
60	trans-1,3-DICHLOROPROPENE	0.208	0.268	-28.8	133	0.00	11.16
61	1,1,2-TRICHLOROETHANE	0.175	0.209	-19.4	134	0.00	11.31
62 I	CHLOROBENZENE-D5	1.000	1.000	0.0	126	0.00	13.38
63	2-HEXANONE	0.358	0.383	-7.0	134	0.01	11.87
64	TETRACHLOROETHYLENE	0.709	0.620	12.6	132	0.00	12.70
65	DIBROMOCHLOROMETHANE	0.871	0.853	2.1	132	0.00	12.01
66	1,2-DIBROMOETHANE	0.645	0.674	-4.5	131	0.00	12.23
67	OCTANE	1.119	1.223	-9.3	160	0.00	12.48
68	1,1,1,2-TETRACHLOROETHANE	0.602	0.555	7.8	120	0.00	13.40
69	CHLOROBENZENE	1.013	0.932	8.0	126	0.00	13.43
70	ETHYLBENZENE	1.580	1.475	6.6	120	0.00	13.79
71	m,p-XYLENE	0.589	0.527	10.5	114	0.00	13.98
72	o-XYLENE	0.554	0.501	9.6	113	0.00	14.48
73	STYRENE	0.650	0.695	-6.9	115	0.00	14.39
74	NONANE	0.922	1.074	-16.5	158	0.00	14.67
75	BROMOFORM	0.760	0.707	7.0	122	0.00	14.09
76 S	4-BROMOFLUOROBENZENE	1.063	1.189	-11.9	124	0.00	15.01
77	1,1,2,2-TETRACHLOROETHANE	0.585	0.661	-13.0	120	0.00	14.51
78	1,2,3-TRICHLOROPROPANE	0.454	0.495	-9.0	116	0.00	14.64
79	ISOPROPYLBENZENE	1.511	1.376	8.9	108	0.00	15.13
80	2-CHLOROTOLUENE	0.347	0.347	0.0	119	0.00	15.70
81	n-PROPYLBENZENE	0.355	0.325	8.5	104	0.00	15.72
82	4-ETHYLTOLUENE	1.148	1.126	1.9	108	0.00	15.89
83	1,3,5-TRIMETHYLBENZENE	0.973	0.927	4.7	108	0.00	15.99
84	tert-BUTYLBENZENE	0.243	0.218	10.3	103	0.00	16.47
85	1,2,4-TRIMETHYLBENZENE	0.831	0.833	-0.2	109	0.00	16.48
86	m-DICHLOROBENZENE	0.520	0.567	-9.0	119	0.00	16.67
87	BENZYL CHLORIDE	0.557	0.572	-2.7	121	0.00	16.68
88	p-DICHLOROBENZENE	0.520	0.523	-0.6	116	0.00	16.77
89	sec-BUTYLBENZENE	0.248	0.246	0.8	104	0.00	16.80
90	p-ISOPROPYLTOLUENE	0.262	0.252	3.8	113	0.00	16.99
91	o-DICHLOROBENZENE	0.449	0.467	-4.0	116	0.00	17.19
92	n-BUTYLBENZENE	0.194	0.199	-2.6	123	0.00	17.50
93	HEXACHLOROBUTADIENE	0.172	0.210	-22.1	128	0.00	19.77
94	1,2,4-TRICHLOROBENZENE	0.107	0.119	-11.2	106	0.00	19.22
95 I	CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	126	0.00	13.38
96	NAPHTHALENE			-----NA-----			

5.9.7
5

Continuing Calibration Summary

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W829-CC821
Lab FileID: 3W21003.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W20791.D M3W821.M Fri Feb 25 10:00:46 2011 MS3W

5.9.7
5

Initial Calibration Summary

Page 1 of 2

Job Number: JA68565
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1222-ICC1222
 Lab FileID: W29766.D

Response Factor Report MSW

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration

Calibration Files

0.04=W29778.D 0.1 =W29777.D 0.2 =W29776.D 0.5 =W29775.D
 5 =W29771.D 10 =W29766.D 20 =W29770.D 40 =W29774.D

Compound	0.04	0.1	0.2	0.5	5	10	20	40	Avg	%RSD
1) I BROMOCHLOROMETHANE										
2) FREON 115									0.000	-1.00
3) FREON 152A			0.946	0.690	0.329	0.529	0.511	0.376	0.564	40.15
4) CHLORODIFLUO		0.480	0.573	0.480	0.437	0.493	0.486	0.408	0.480	10.73
5) DICHLORODIFL		4.097	5.257	4.432	4.107	4.400	4.133	3.456	4.269	12.67
6) PROPYLENE		0.640	0.684	0.739	0.541	0.584	0.559	0.416	0.595	17.76
7) FREON 114	4.540	3.415	4.502	4.111	3.850	3.766	3.647	2.850	3.835	14.63
8) CHLOROMETHAN		0.168	0.214	0.277	0.237	0.221	0.217	0.151	0.212	19.74
9) VINYL CHLORI		0.805	1.060	1.155	1.011	0.936	0.888	0.658	0.930	17.88
10) 1,3-BUTADIEN	0.646	0.731	0.878	0.814	0.773	0.709	0.718	0.545	0.727	14.03
11) n-BUTANE		1.468	1.664	1.678	1.402	1.278	1.257	0.959	1.387	18.15
12) BROMOMETHANE		1.013	1.282	1.276	1.137	1.050	1.021	0.760	1.077	16.69
13) CHLOROETHANE		0.448	0.548	0.612	0.587	0.521	0.505	0.370	0.513	16.19
14) ACROLEIN			0.276	0.335	0.331	0.327	0.324	0.258	0.309	10.67
15) FREON 123	3.057	2.453	3.079	2.933	2.715	2.671	2.688	2.150	2.718	11.53
16) FREON 123A	2.588	1.773	2.439	2.203	2.052	2.025	2.026	1.639	2.093	15.06
17) TRICHLOROFLU		4.791	5.968	5.247	4.663	4.835	4.766	4.003	4.896	12.24
18) ISOPROPYL AL		2.040	1.998	2.033	1.712	1.737	1.743	1.355	1.803	13.67
19) ACETONE		0.503	0.490	0.480	0.424	0.404	0.400	0.300	0.429	16.45
20) PENTANE		0.221	0.286	0.258	0.258	0.254	0.250	0.192	0.245	12.34
21) TVHC as EQUI		4.243	6.039	5.498	4.693	4.729	4.729	3.713	4.806	15.97
22) IODOMETHANE	3.562	2.882	3.770	3.580	3.054	3.230	3.272	2.602	3.244	12.06
23) 1,1-DICHLORO		1.285	1.322	1.188	1.043	1.098	1.116	0.887	1.134	13.09
24) CARBON DISUL	3.775	2.821	3.480	3.345	2.825	2.980	2.996	2.329	3.069	14.70
25) ETHANOL				0.554	0.338	0.296	0.295	0.216	0.340	37.50
26) BROMOETHENE	1.289	1.041	1.351	1.401	1.184	1.161	1.132	0.877	1.179	14.47
27) METHYLENE CH			1.204	1.127	0.910	0.922	0.935	0.716	0.969	17.95
28) 3-CHLOROPROP		0.468	0.596	0.514	0.482	0.513	0.506	0.401	0.497	11.83
29) FREON 113	3.360	2.333	2.836	2.600	2.354	2.514	2.551	2.099	2.581	14.82
30) TRANS-1,2-DI		1.591	1.626	1.285	1.193	1.280	1.268	1.000	1.320	16.68
31) TERTIARY BUT		2.452	3.612	3.005	2.929	3.233	3.086		3.053	12.48
32) METHYL TERTI		3.726	5.053	3.639	3.997	4.502	4.464	3.792	4.168	12.50
33) TETRAHYDROFU			0.480	0.450	0.522	0.573	0.563	0.460	0.508	10.43
34) HEXANE	2.129	1.606	1.985	1.618	1.519	1.671	1.675	1.394	1.700	14.22
35) VINYL ACETAT			0.341	0.264	0.299	0.327	0.327	0.267	0.304	10.86
36) 1,1-DICHLORO	2.606	1.824	2.554	2.118	2.039	2.202	2.163	1.748	2.157	14.19
37) METHYL ETHYL			0.513	0.457	0.497	0.566	0.563	0.459	0.509	9.46
38) cis-1,2-DICH		1.411	1.609	1.286	1.225	1.326	1.317	1.076	1.321	12.42
39) DI-ISOPROPYL	4.216	2.804	3.979	3.076	3.268	3.682	3.717	3.094	3.479	14.17
40) ETHYL ACETAT			0.240	0.264	0.296	0.317	0.321	0.267	0.284	11.36
41) CHLOROFORM	4.248	2.631	3.821	3.066	3.031	3.326	3.268	2.760	3.269	16.48
42) 2,4-DIMETHYL	2.039	1.762	2.334	2.010	1.885	2.093	2.097	1.729	1.994	9.93
43) 1,1,1-TRICHL	5.612	3.377	4.684	3.864	3.874	4.280	4.241	3.693	4.203	16.55
44) CARBON TETRA	6.027	3.963	5.520	4.284	4.312	4.769	4.780	4.176	4.729	15.12
45) 1,2-DICHLORO	2.757	2.092	2.887	2.257	2.270	2.569	2.549	2.281	2.458	11.25

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1222-ICC1222
Lab FileID: W29766.D

46)	I	1,4-DIFLUOROBENZENE			-----ISTD-----							
47)	BENZENE	0.913	0.685	0.807	0.768	0.705	0.739	0.754	0.673	0.756	10.29	
48)	CYCLOHEXANE		0.430	0.453	0.416	0.338	0.353	0.362	0.322	0.382	13.21	
49)	2,3-DIMETHYL		0.149	0.187	0.199	0.162	0.167	0.174	0.156	0.171	10.36	
50)	TRICHLOROETH	0.474	0.304	0.434	0.395	0.349	0.383	0.407	0.400	0.393	13.04	
51)	1,2-DICHLORO	0.238	0.220	0.256	0.216	0.214	0.223	0.229	0.205	0.225	7.08	
52)	BROMODICHLOR	0.843	0.650	0.800	0.726	0.678	0.733	0.772	0.737	0.742	8.43	
53)	2,2,4-TRIMET	1.370	0.980	1.128	1.077	1.044	1.107	1.163	1.110	1.122	10.22	
54)	1,4-DIOXANE			0.123	0.159	0.156	0.173	0.183	0.179	0.162	13.52	
55)	METHYL METHA			0.251	0.220	0.227	0.252	0.268	0.246	0.244	7.20	
56)	HEPTANE	0.471	0.343	0.405	0.384	0.341	0.361	0.376	0.346	0.378	11.57	
57)	TVHC as EQUI		1.787	2.435	2.154	1.902	2.036	2.111	1.967	2.056	10.14	
58)	METHYL ISOBU		0.337	0.455	0.463	0.447	0.502	0.532	0.494	0.462	13.54	
59)	cis-1,3-DICH	0.516	0.376	0.484	0.428	0.418	0.460	0.473	0.449	0.450	9.62	
60)	TOLUENE	0.612	0.484	0.597	0.514	0.525	0.575	0.596	0.563	0.558	8.18	
61)	trans-1,3-DI	0.455	0.354	0.416	0.405	0.396	0.438	0.462	0.441	0.421	8.49	
62)	1,1,2-TRICHL			0.233	0.207	0.220	0.239	0.251	0.235	0.231	6.67	
63)	I	CHLOROBENZENE-D5			-----ISTD-----							
64)	2-HEXANONE			0.803	1.012	0.793	0.850	0.820	0.652	0.822	14.10	
65)	TETRACHLOROE	1.078	0.774	0.887	0.929	0.739	0.774	0.740	0.612	0.817	17.51	
66)	DIBROMOCHLOR	1.447	1.127	1.401	1.365	1.208	1.249	1.183	0.965	1.243	12.80	
67)	1,2-DIBROMOE	0.889	0.634	0.879	0.967	0.798	0.837	0.799	0.650	0.807	14.30	
68)	OCTANE	1.073	0.724	0.941	0.948	0.862	0.894	0.840	0.673	0.869	14.69	
69)	1,1,1,2-TETR	1.109	0.844	1.087	0.956	0.908	0.923	0.886	0.742	0.932	12.98	
70)	CHLOROBENZEN	1.754	1.193	1.526	1.517	1.304	1.364	1.304	1.087	1.381	15.30	
71)	ETHYLBENZENE	2.592	2.025	2.590	2.397	2.296	2.359	2.251	1.831	2.293	11.42	
72)	m,p-XYLENE	0.986	0.717	0.856	0.873	0.860	0.880	0.858	0.709	0.842	10.72	
73)	o-XYLENE	0.905	0.654	0.869	0.795	0.827	0.857	0.824	0.691	0.803	10.89	
74)	STYRENE	1.081	0.865	1.093	1.216	1.206	1.250	1.204	0.998	1.114	11.88	
75)	1,2,3-TRICHL	0.917	0.656	0.858	0.803	0.798	0.827	0.791	0.649	0.787	11.78	
76)	NONANE	0.754	0.572	0.776	0.751	0.811	0.846	0.813	0.665	0.749	12.02	
77)	BROMOFORM	1.391	1.009	1.252	1.206	1.061	1.117	1.064	0.904	1.126	13.58	
78)	4-BROMOFLUOR	1.123	1.135	1.130	1.135	1.252	1.206	1.141	1.040	1.145	5.44	
79)	1,1,2,2-TETR			0.785	0.827	0.860	0.900	0.871	0.730	0.829	7.53	
80)	ISOPROPYLBEN	2.834	2.044	2.691	2.517	2.701	2.775	2.656	2.200	2.552	11.12	
81)	2-CHLOROTOLU		0.413	0.543	0.578	0.553	0.569	0.552	0.464	0.525	11.79	
82)	n-PROPYLBENZ		0.422	0.597	0.590	0.645	0.673	0.665	0.559	0.593	14.56	
83)	4-ETHYLTOLUE		1.367	1.968	2.032	2.297	2.409	2.293	1.931	2.042	17.14	
84)	1,3,5-TRIMET		1.326	1.772	1.679	1.914	2.001	1.934	1.618	1.749	13.34	
85)	TERT-BUTYLBE			0.408	0.382	0.473	0.508	0.503	0.437	0.452	11.39	
86)	1,2,4-TRIMET			1.427	1.520	1.777	1.909	1.896	1.651	1.697	11.70	
87)	m-DICHLOROBE			0.791	1.057	1.044	1.118	1.097	0.960	1.011	11.94	
88)	BENZYL CHLOR			0.776	1.188	1.277	1.392	1.407	1.234	1.212	19.00	
89)	p-DICHLOROBE			0.740	1.046	1.002	1.049	1.029	0.881	0.958	12.93	
90)	SEC-BUTYLBEN			0.464	0.482	0.547	0.582	0.577	0.496	0.525	9.69	
91)	p-ISOPROPYLT			0.399	0.443	0.521	0.574	0.572	0.502	0.502	13.97	
92)	o-DICHLOROBE			0.706	0.918	0.909	0.965	0.944	0.805	0.874	11.35	
93)	n-BUTYLBENZE			0.254	0.283	0.382	0.429	0.426	0.372	0.358	20.51	
94)	HEXACHLOROB			0.197	0.302	0.340	0.304	0.258	0.241	0.274	18.82	
95)	1,2,4-TRICHL			0.091	0.261	0.136	0.145	0.142	0.138	0.152	37.55	
96)	I	Chlorobenzene-d5(a)			-----ISTD-----							
97)	NAPHTHALENE									0.000	-1.00	

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(#) = Out of Range   ###  Number of calibration levels exceeded format   ###
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MW1222.M

Fri Jan 28 09:40:04 2011

MSW

Initial Calibration Verification

Page 1 of 3

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1223-ICV1222
Lab FileID: W29783.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1223-24\W29783.D Vial: 2
 Acq On : 20 Jan 2011 9:00 pm Operator: YOUMINH
 Sample : ICV1222-10 Inst : MSW
 Misc : MS6862,VW1223,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I BROMOCHLOROMETHANE	1.000	1.000	0.0	91	-0.04
2	FREON 115	0.000	0.000	0.0	0#	-4.98#
3	FREON 152A	0.564	0.455	19.3	78	-0.06
4	CHLORODIFLUOROMETHANE	0.480	0.439	8.5	81	-0.05
5	DICHLORODIFLUOROMETHANE	4.269	4.069	4.7	84	-0.05
6	PROPYLENE	0.595	0.511	14.1	80	-0.06
7	FREON 114	3.835	3.558	7.2	86	-0.06
8	CHLOROMETHANE	0.212	0.211	0.5	87	-0.05
9	VINYL CHLORIDE	0.930	0.920	1.1	90	-0.06
10	1,3-BUTADIENE	0.727	0.697	4.1	90	-0.06
11	n-BUTANE	1.387	1.256	9.4	90	-0.05
12	BROMOMETHANE	1.077	1.027	4.6	89	-0.05
13	CHLOROETHANE	0.513	0.519	-1.2	91	-0.06
14	ACROLEIN	0.309	0.309	0.0	86	-0.05
15	FREON 123	2.718	2.610	4.0	89	-0.05
16	FREON 123A	2.093	1.966	6.1	89	-0.05
17	TRICHLOROFLUOROMETHANE	4.896	4.646	5.1	88	-0.05
18	ISOPROPYL ALCOHOL	1.803	1.596	11.5	84	-0.04
19	ACETONE	0.429	0.380	11.4	86	-0.05
20	PENTANE	0.245	0.248	-1.2	89	-0.05
21	H TVHC as EQUIV PENTANE	4.806	4.611	4.1	89	-0.05
22	IODOMETHANE	3.244	3.149	2.9	89	-0.05
23	1,1-DICHLOROETHYLENE	1.134	1.047	7.7	87	-0.05
24	CARBON DISULFIDE	3.069	2.861	6.8	88	-0.05
25	ETHANOL	0.340	0.287	15.6	88	-0.05
26	BROMOETHENE	1.179	1.126	4.5	88	-0.05
27	METHYLENE CHLORIDE	0.969	0.885	8.7	88	-0.05
28	3-CHLOROPROPENE	0.497	0.482	3.0	86	-0.05
29	FREON 113	2.581	2.366	8.3	86	-0.05
30	TRANS-1,2-DICHLOROETHYLENE	1.320	1.221	7.5	87	-0.04
31	TERTIARY BUTYL ALCOHOL	3.053	2.835	7.1	80	-0.04
32	METHYL TERTIARY BUTYL ETHER	4.168	3.939	5.5	80	-0.04
33	TETRAHYDROFURAN	0.508	0.494	2.8	79	-0.02
34	HEXANE	1.700	1.537	9.6	84	-0.04
35	VINYL ACETATE	0.304	0.300	1.3	84	-0.04
36	1,1-DICHLOROETHANE	2.157	2.040	5.4	84	-0.04
37	METHYL ETHYL KETONE	0.509	0.492	3.3	79	-0.04
38	cis-1,2-DICHLOROETHYLENE	1.321	1.248	5.5	86	-0.04
39	DI-ISOPROPYL ETHER	3.479	3.181	8.6	79	-0.04
40	ETHYL ACETATE	0.284	0.276	2.8	79	-0.04
41	CHLOROFORM	3.269	3.072	6.0	84	-0.04
42	2,4-DIMETHYLPENTANE	1.994	1.932	3.1	84	-0.03

Initial Calibration Verification

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Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1223-ICV1222
Lab FileID: W29783.D

43		1,1,1-TRICHLOROETHANE	4.203	3.922	6.7	84	-0.03
44		CARBON TETRACHLORIDE	4.729	4.410	6.7	84	-0.02
45		1,2-DICHLOROETHANE	2.458	2.309	6.1	82	-0.03
46	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	85	-0.02
47		BENZENE	0.756	0.731	3.3	84	-0.02
48		CYCLOHEXANE	0.382	0.354	7.3	85	-0.02
49		2,3-DIMETHYLPENTANE	0.171	0.164	4.1	83	-0.02
50		TRICHLOROETHYLENE	0.393	0.381	3.1	84	-0.02
51		1,2-DICHLOROPROPANE	0.225	0.218	3.1	83	-0.02
52		BROMODICHLOROMETHANE	0.742	0.719	3.1	83	-0.02
53		2,2,4-TRIMETHYLPENTANE	1.122	1.073	4.4	82	-0.02
54		1,4-DIOXANE	0.162	0.146	9.9	72	0.00
55		METHYL METHACRYLATE	0.244	0.230	5.7	77	-0.02
56		HEPTANE	0.378	0.359	5.0	84	-0.02
57	H	TVHC as EQUIV HEPTANE	2.056	2.012	2.1	84	-0.02
58		METHYL ISOBUTYL KETONE	0.462	0.439	5.0	74	0.00
59		cis-1,3-DICHLOROPROPENE	0.450	0.447	0.7	82	-0.02
60		TOLUENE	0.558	0.559	-0.2	82	-0.01
61		trans-1,3-DICHLOROPROPENE	0.421	0.425	-1.0	82	-0.01
62		1,1,2-TRICHLOROETHANE	0.231	0.232	-0.4	82	-0.01
63	I	CHLOROBENZENE-D5	1.000	1.000	0.0	81	0.00
64		2-HEXANONE	0.822	0.767	6.7	73	0.00
65		TETRACHLOROETHYLENE	0.817	0.802	1.8	84	0.00
66		DIBROMOCHLOROMETHANE	1.243	1.273	-2.4	83	-0.01
67		1,2-DIBROMOETHANE	0.807	0.844	-4.6	82	0.00
68		OCTANE	0.869	0.891	-2.5	81	0.00
69		1,1,1,2-TETRACHLOROETHANE	0.932	0.923	1.0	81	0.00
70		CHLOROBENZENE	1.381	1.366	1.1	81	0.00
71		ETHYLBENZENE	2.293	2.367	-3.2	81	0.00
72		m,p-XYLENE	0.842	0.882	-4.8	81	0.00
73		o-XYLENE	0.803	0.850	-5.9	81	0.00
74		STYRENE	1.114	1.235	-10.9	80	0.00
75		1,2,3-TRICHLOROPROPANE	0.787	0.811	-3.0	80	0.00
76		NONANE	0.749	0.848	-13.2	81	0.00
77		BROMOFORM	1.126	1.109	1.5	81	0.00
78	S	4-BROMOFLUOROBENZENE	1.145	1.186	-3.6	80	0.00
79		1,1,2,2-TETRACHLOROETHANE	0.829	0.883	-6.5	80	0.00
80		ISOPROPYLBENZENE	2.552	2.719	-6.5	80	0.00
81		2-CHLOROTOLUENE	0.525	0.563	-7.2	80	0.00
82		n-PROPYLBENZENE	0.593	0.668	-12.6	81	0.00
83		4-ETHYLTOLUENE	2.042	2.358	-15.5	79	0.00
84		1,3,5-TRIMETHYLBENZENE	1.749	1.962	-12.2	80	0.00
85		TERT-BUTYLBENZENE	0.452	0.485	-7.3	78	0.00
86		1,2,4-TRIMETHYLBENZENE	1.697	1.834	-8.1	78	0.00
87		m-DICHLOROBENZENE	1.011	1.087	-7.5	79	0.00
88		BENZYL CHLORIDE	1.212	1.265	-4.4	74	0.00
89		p-DICHLOROBENZENE	0.958	1.004	-4.8	78	0.00
90		SEC-BUTYLBENZENE	0.525	0.560	-6.7	78	0.00
91		p-ISOPROPYLTOLUENE	0.502	0.521	-3.8	74	0.00
92		o-DICHLOROBENZENE	0.874	0.925	-5.8	78	0.00
93		n-BUTYLBENZENE	0.358	0.381	-6.4	72	0.00
94		HEXACHLOROBUTADIENE	0.274	0.270	1.5	72	0.00
95		1,2,4-TRICHLOROBENZENE	0.152	0.128	15.8	72	0.00
96	I	Chlorobenzene-d5(a)	1.000	1.000	0.0	81	0.00
97		NAPHTHALENE	0.000	0.000	0.0	0#	-20.50#

Initial Calibration Verification

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1223-ICV1222
Lab FileID: W29783.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W29766.D MW1222.M Fri Jan 28 09:40:05 2011 MSW

5.9.9
5

Continuing Calibration Summary

Page 1 of 3

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1236-CC1222
Lab FileID: W30126.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W30126.D
Acq On : 11 Feb 2011 7:13 am
Sample : CC1222-10
Misc : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	110	-0.06
2	FREON 115	0.000	0.000	0.0	0#	-4.98#
3	FREON 152A	0.564	0.482	14.5	100	-0.06
4	CHLORODIFLUOROMETHANE	0.480	0.519	-8.1	116	-0.05
5	DICHLORODIFLUOROMETHANE	4.269	4.296	-0.6	107	-0.05
6	PROPYLENE	0.595	0.567	4.7	107	-0.06
7	FREON 114	3.835	3.587	6.5	105	-0.06
8	CHLOROMETHANE	0.212	0.198	6.6	99	-0.06
9	VINYL CHLORIDE	0.930	0.825	11.3	97	-0.07
10	1,3-BUTADIENE	0.727	0.620	14.7	96	-0.07
11	n-BUTANE	1.387	1.206	13.0	104	-0.06
12	BROMOMETHANE	1.077	0.953	11.5	100	-0.06
13	CHLOROETHANE	0.513	0.477	7.0	101	-0.07
14	ACROLEIN	0.309	0.294	4.9	99	-0.05
15	FREON 123	2.718	2.614	3.8	108	-0.06
16	FREON 123A	2.093	2.022	3.4	110	-0.06
17	TRICHLOROFLUOROMETHANE	4.896	4.982	-1.8	113	-0.06
18	ISOPROPYL ALCOHOL	1.803	1.628	9.7	103	-0.04
19	ACETONE	0.429	0.356	17.0	97	-0.05
20	PENTANE	0.245	0.252	-2.9	109	-0.05
21 H	TVHC as EQUIV PENTANE	4.806	5.169	-7.6	120	-0.06
22	IODOMETHANE	3.244	3.446	-6.2	117	-0.07
23	1,1-DICHLOROETHYLENE	1.134	1.047	7.7	105	-0.07
24	CARBON DISULFIDE	3.069	2.564	16.5	95	-0.07
25	ETHANOL	0.340	0.271	20.3	101	-0.04
26	BROMOETHENE	1.179	1.110	5.9	105	-0.06
27	METHYLENE CHLORIDE	0.969	0.829	14.4	99	-0.06
28	3-CHLOROPROPENE	0.497	0.446	10.3	96	-0.05
29	FREON 113	2.581	2.520	2.4	110	-0.06
30	TRANS-1,2-DICHLOROETHYLENE	1.320	1.107	16.1	95	-0.06
31	TERTIARY BUTYL ALCOHOL	3.053	2.764	9.5	94	-0.04
32	METHYL TERTIARY BUTYL ETHER	4.168	3.832	8.1	94	-0.05
33	TETRAHYDROFURAN	0.508	0.426	16.1	82	-0.04
34	HEXANE	1.700	1.422	16.4	94	-0.05
35	VINYL ACETATE	0.304	0.263	13.5	88	-0.05
36	1,1-DICHLOROETHANE	2.157	1.933	10.4	97	-0.06
37	METHYL ETHYL KETONE	0.509	0.407	20.0	79	-0.05
38	cis-1,2-DICHLOROETHYLENE	1.321	1.101	16.7	91	-0.05
39	DI-ISOPROPYL ETHER	3.479	3.051	12.3	91	-0.05
40	ETHYL ACETATE	0.284	0.247	13.0	86	-0.05
41	CHLOROFORM	3.269	2.960	9.5	98	-0.05
42	2,4-DIMETHYLPENTANE	1.994	1.736	12.9	91	-0.05

Continuing Calibration Summary

Page 2 of 3

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1236-CC1222
Lab FileID: W30126.D

43		1,1,1-TRICHLOROETHANE	4.203	4.031	4.1	104	-0.05
44		CARBON TETRACHLORIDE	4.729	4.548	3.8	105	-0.05
45		1,2-DICHLOROETHANE	2.458	2.471	-0.5	106	-0.05
46	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	97	-0.04
47		BENZENE	0.756	0.673	11.0	89	-0.04
48		CYCLOHEXANE	0.382	0.328	14.1	91	-0.04
49		2,3-DIMETHYLPENTANE	0.171	0.155	9.4	90	-0.04
50		TRICHLOROETHYLENE	0.393	0.379	3.6	96	-0.04
51		1,2-DICHLOROPROPANE	0.225	0.202	10.2	88	-0.04
52		BROMODICHLOROMETHANE	0.742	0.744	-0.3	99	-0.04
53		2,2,4-TRIMETHYLPENTANE	1.122	1.026	8.6	90	-0.04
54		1,4-DIOXANE	0.162	0.121	25.3	69	-0.01
55		METHYL METHACRYLATE	0.244	0.206	15.6	80	-0.04
56		HEPTANE	0.378	0.348	7.9	94	-0.04
57	H	TVHC as EQUIV HEPTANE	2.056	2.099	-2.1	100	-0.04
58		METHYL ISOBUTYL KETONE	0.462	0.427	7.6	83	-0.02
59		cis-1,3-DICHLOROPROPENE	0.450	0.425	5.6	90	-0.04
60		TOLUENE	0.558	0.524	6.1	89	-0.04
61		trans-1,3-DICHLOROPROPENE	0.421	0.415	1.4	92	-0.03
62		1,1,2-TRICHLOROETHANE	0.231	0.214	7.4	87	-0.03
63	I	CHLORO BENZENE-D5	1.000	1.000	0.0	96	-0.03
64		2-HEXANONE	0.822	0.699	15.0	79	-0.01
65		TETRACHLOROETHYLENE	0.817	0.826	-1.1	103	-0.03
66		DIBROMOCHLOROMETHANE	1.243	1.228	1.2	95	-0.04
67		1,2-DIBROMOETHANE	0.807	0.767	5.0	88	-0.03
68		OCTANE	0.869	0.855	1.6	92	-0.02
69		1,1,1,2-TETRACHLOROETHANE	0.932	0.935	-0.3	97	-0.03
70		CHLORO BENZENE	1.381	1.285	7.0	91	-0.02
71		ETHYLBENZENE	2.293	2.180	4.9	89	-0.03
72		m,p-XYLENE	0.842	0.822	2.4	90	-0.03
73		o-XYLENE	0.803	0.789	1.7	89	-0.03
74		STYRENE	1.114	1.104	0.9	85	-0.02
75		1,2,3-TRICHLOROPROPANE	0.787	0.717	8.9	84	-0.02
76		NONANE	0.749	0.840	-12.1	95	-0.02
77		BROMOFORM	1.126	1.083	3.8	93	-0.03
78	S	4-BROMOFLUOROBENZENE	1.145	1.143	0.2	91	-0.02
79		1,1,2,2-TETRACHLOROETHANE	0.829	0.732	11.7	78	-0.02
80		ISOPROPYLBENZENE	2.552	2.512	1.6	87	-0.02
81		2-CHLOROTOLUENE	0.525	0.529	-0.8	89	-0.02
82		n-PROPYLBENZENE	0.593	0.622	-4.9	89	-0.02
83		4-ETHYLTOLUENE	2.042	2.135	-4.6	85	-0.02
84		1,3,5-TRIMETHYLBENZENE	1.749	1.872	-7.0	90	-0.02
85		TERT-BUTYLBENZENE	0.452	0.453	-0.2	86	-0.02
86		1,2,4-TRIMETHYLBENZENE	1.697	1.752	-3.2	88	-0.02
87		m-DICHLORO BENZENE	1.011	0.964	4.6	83	-0.02
88		BENZYL CHLORIDE	1.212	1.014	16.3	70	-0.02
89		p-DICHLORO BENZENE	0.958	0.910	5.0	83	-0.02
90		SEC-BUTYLBENZENE	0.525	0.509	3.0	84	-0.02
91		p-ISOPROPYLTOLUENE	0.502	0.481	4.2	81	-0.02
92		o-DICHLORO BENZENE	0.874	0.806	7.8	80	-0.02
93		n-BUTYLBENZENE	0.358	0.329	8.1	74	-0.02
94		HEXACHLOROBUTADIENE	0.274	0.194	29.2	61	-0.02
95		1,2,4-TRICHLORO BENZENE	0.152	0.114	25.0	76	-0.02
96	I	Chlorobenzene-d5(a)	1.000	1.000	0.0	95	-0.03
97		NAPHTHALENE	0.000	0.000	0.0	0#	-20.50#

5.9.10
5

Job Number: JA68565
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1236-CC1222
Lab FileID: W30126.D

5.9.10



GC/MS Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\V3W828\3W21000.D Vial: 2
 Acq On : 25 Feb 2011 4:54 am Operator: yunxiac
 Sample : ja68565-1 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:11:32 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	128924	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	617662	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.37	82	291328	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	292149	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 169032 5.46 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 109.20%

Target Compounds

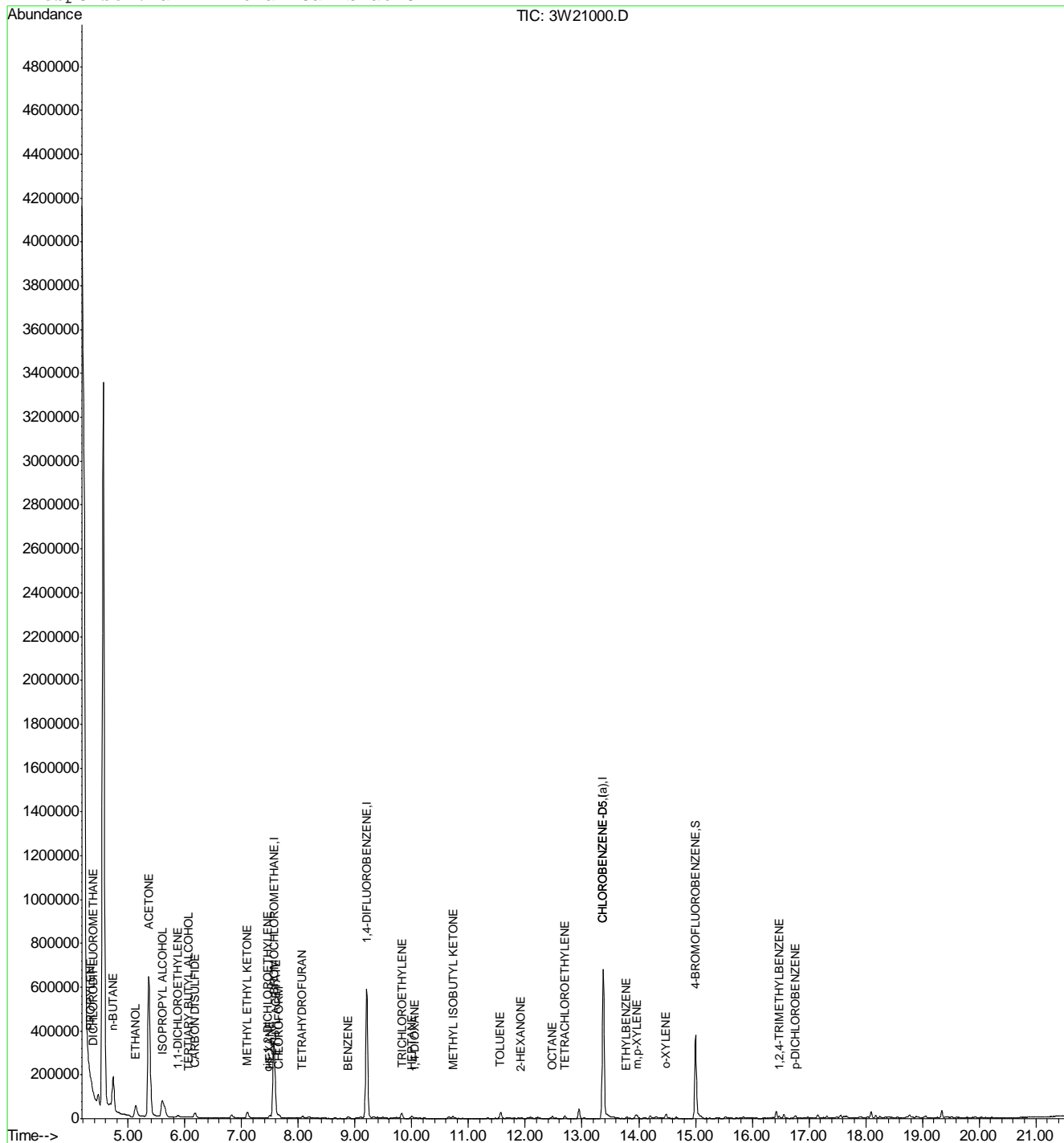
						Qvalue
5) DICHLORODIFLUOROMETHANE	4.39	85	5588	0.15	PPBV	99
6) PROPYLENE	4.34	41	11988m	0.84	PPBV	
11) n-BUTANE	4.73	43	258106	10.33	PPBV	89
17) ISOPROPYL ALCOHOL	5.60	45	183771	8.73	PPBV	94
18) ACETONE	5.37	58	353955	69.50	PPBV #	88
22) 1,1-DICHLOROETHYLENE	5.88	96	4868	0.32	PPBV	99
23) CARBON DISULFIDE	6.18	76	44005	0.97	PPBV	77
24) ETHANOL	5.13	45	100129	19.07	PPBV	98
30) TERTIARY BUTYL ALCOHOL	6.06	59	5664	0.24	PPBV	81
32) TETRAHYDROFURAN	8.06	72	3396	0.66	PPBV #	84
33) HEXANE	7.49	57	7006	0.30	PPBV	93
36) METHYL ETHYL KETONE	7.10	72	10018	2.10	PPBV #	67
37) cis-1,2-DICHLOROETHYLENE	7.45	96	574	0.04	PPBV	95
39) ETHYL ACETATE	7.61	61	4305	1.29	PPBV #	93
40) CHLOROFORM	7.66	83	11181	0.42	PPBV	94
46) BENZENE	8.89	78	4900	0.13	PPBV	95
49) TRICHLOROETHYLENE	9.82	95	10088	0.56	PPBV	95
53) 1,4-DIOXANE	10.06	88	2326m	0.36	PPBV	
54) HEPTANE	9.99	43	6172	0.24	PPBV	88
57) METHYL ISOBUTYL KETONE	10.72	58	3536	0.43	PPBV	92
59) TOLUENE	11.56	92	13790	0.58	PPBV	98
63) 2-HEXANONE	11.92	58	1309	0.13	PPBV	96
64) TETRACHLOROETHYLENE	12.70	164	3248	0.16	PPBV	98
67) OCTANE	12.48	43	5383	0.17	PPBV	95
70) ETHYLBENZENE	13.78	91	4872	0.11	PPBV	97
71) m,p-XYLENE	13.97	106	7104	0.41	PPBV #	88
72) o-XYLENE	14.48	106	5352	0.33	PPBV	95
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	6293	0.26	PPBV #	27
88) p-DICHLOROBENZENE	16.76	146	6768	0.45	PPBV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21000.D M3W821.M Fri Feb 25 17:08:17 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\V3W828\3W21000.D Vial: 2
Acq On : 25 Feb 2011 4:54 am Operator: yunxiac
Sample : ja68565-1 Inst : MS3W
Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 25 17:07 2011 Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

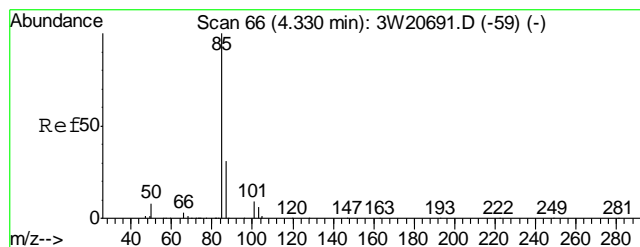


3W21000.D M3W821.M

Fri Feb 25 17:08:17 2011

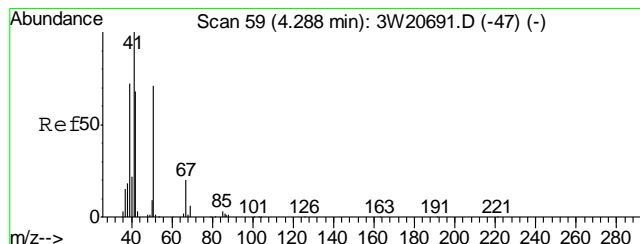
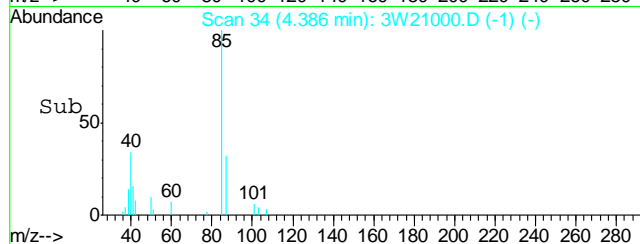
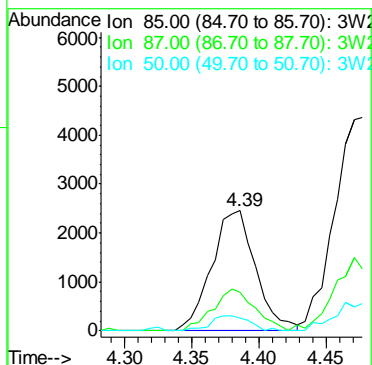
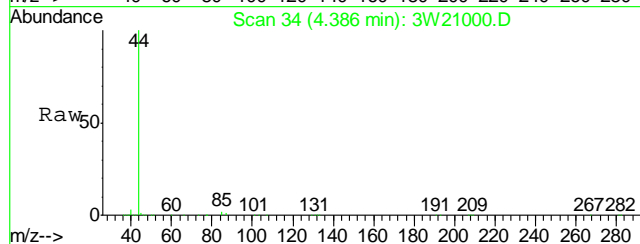
MS3W

Page 2



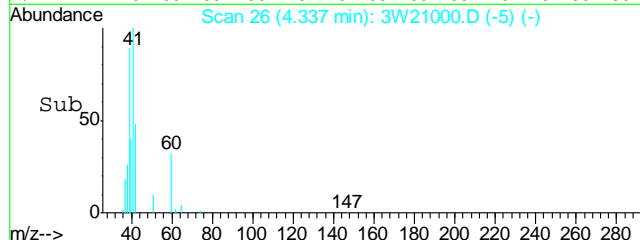
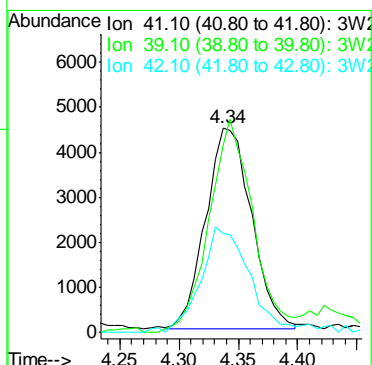
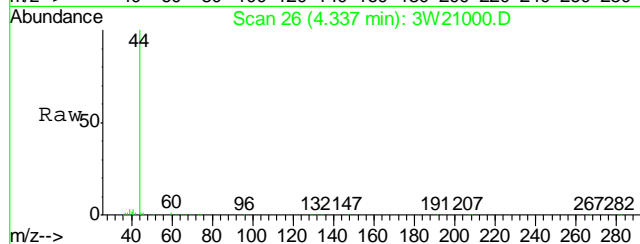
#5
DICHLORODIFLUOROMETHANE
Concen: 0.15 PPBV
RT: 4.39 min Scan# 34
Delta R.T. 0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

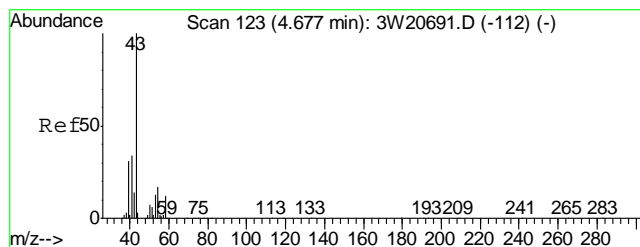
Tgt Ion:	85	Resp:	5588
Ion Ratio	Lower	Upper	
85	100		
87	33.4	12.9	52.9
50	11.0	0.0	30.6



#6
PROPYLENE
Concen: 0.84 PPBV m
RT: 4.34 min Scan# 26
Delta R.T. 0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

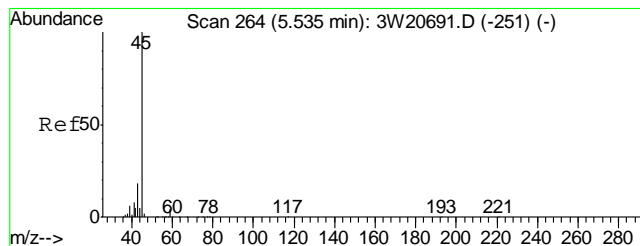
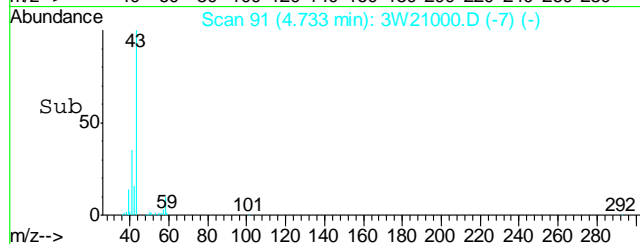
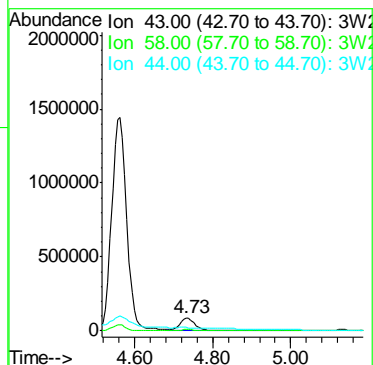
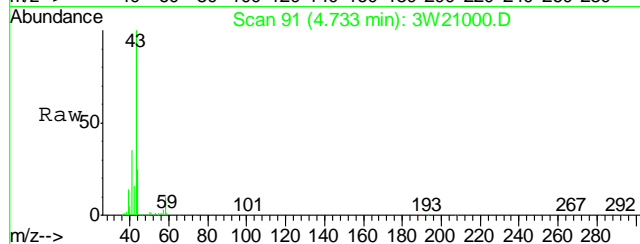
Tgt Ion:	41	Resp:	11988
Ion Ratio	Lower	Upper	
41	100		
39	0.0	50.7	90.7#
42	0.0	46.0	86.0#





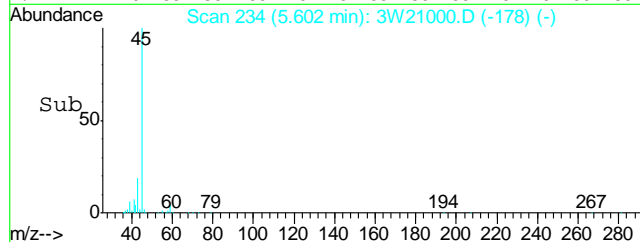
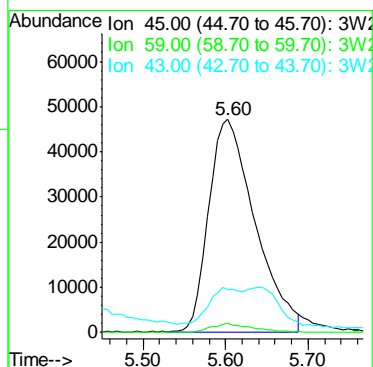
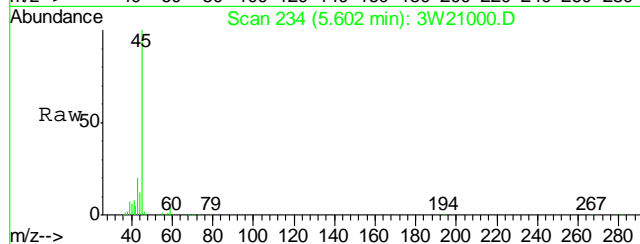
#11
n-BUTANE
Concen: 10.33 PPBV
RT: 4.73 min Scan# 91
Delta R.T. 0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

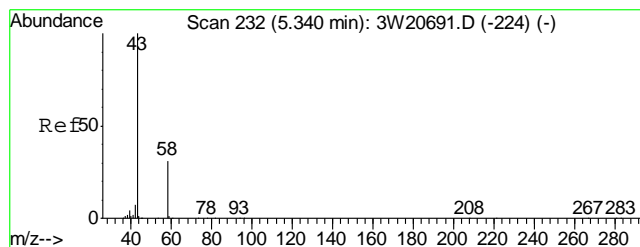
Tgt Ion: 43 Resp: 258106
Ion Ratio Lower Upper
43 100
58 8.9 0.0 32.1
44 11.0 0.0 23.9



#17
ISOPROPYL ALCOHOL
Concen: 8.73 PPBV
RT: 5.60 min Scan# 234
Delta R.T. 0.04 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

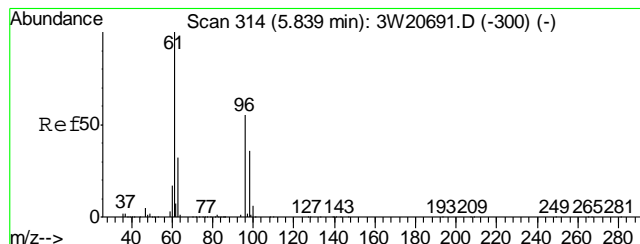
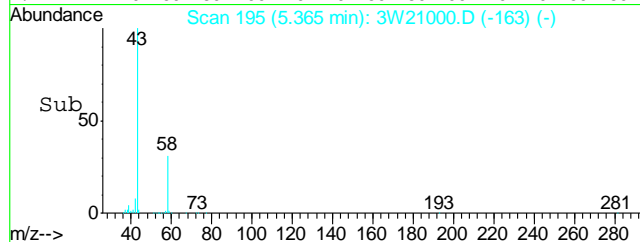
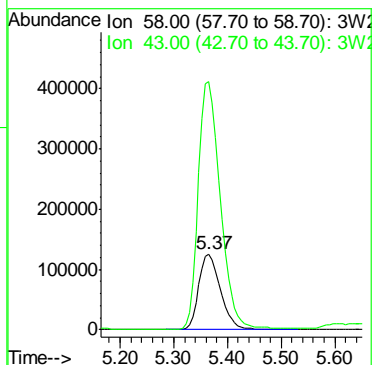
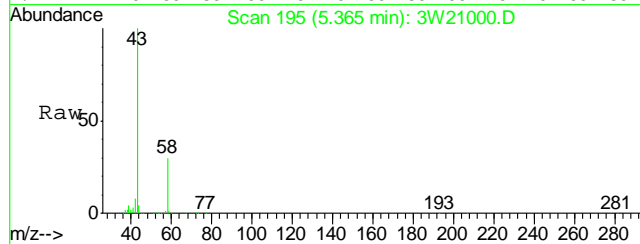
Tgt Ion: 45 Resp: 183771
Ion Ratio Lower Upper
45 100
59 4.2 0.0 23.7
43 20.2 0.0 37.4





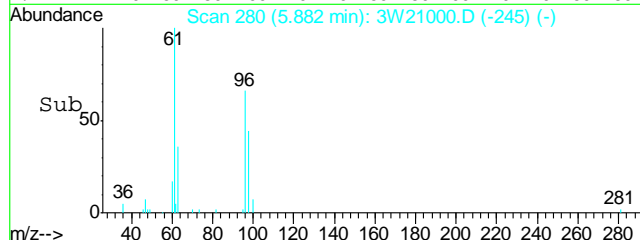
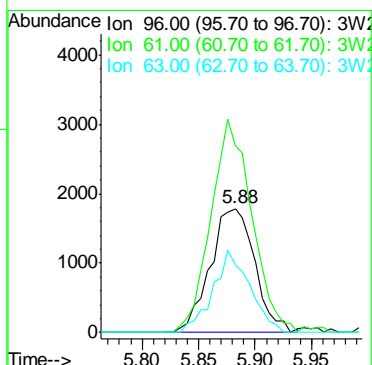
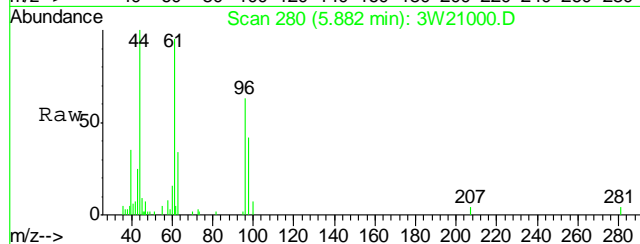
#18
 ACETONE
 Concen: 69.50 PPBV
 RT: 5.37 min Scan# 195
 Delta R.T. -0.01 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

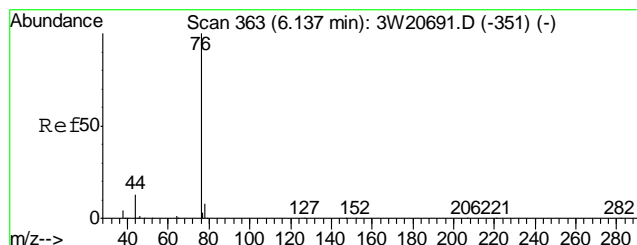
Tgt Ion: 58 Resp: 353955
 Ion Ratio Lower Upper
 58 100
 43 333.3 289.1 329.1#



#22
 1,1-DICHLOROETHYLENE
 Concen: 0.32 PPBV
 RT: 5.88 min Scan# 280
 Delta R.T. 0.01 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

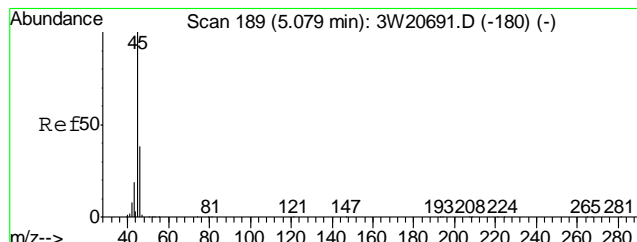
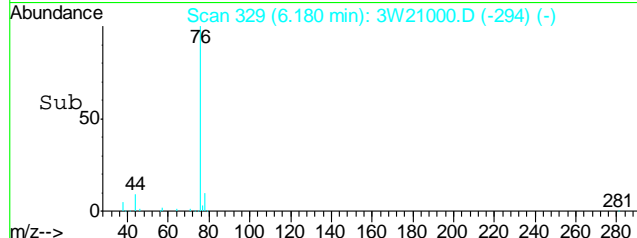
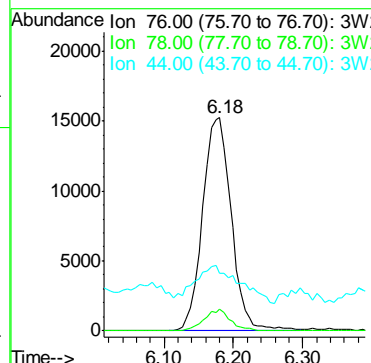
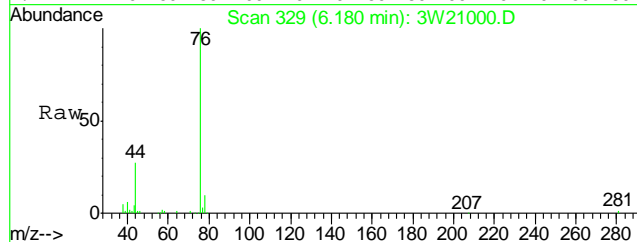
Tgt Ion: 96 Resp: 4868
 Ion Ratio Lower Upper
 96 100
 61 158.3 137.7 177.7
 63 54.7 31.6 71.6





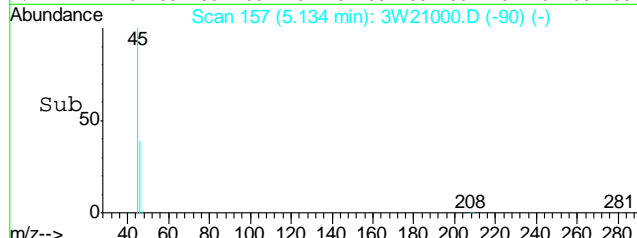
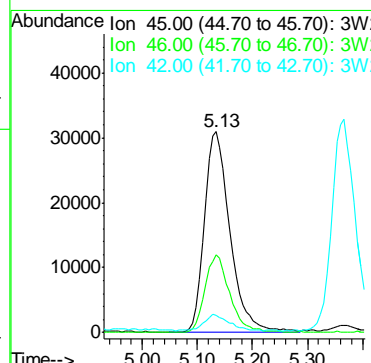
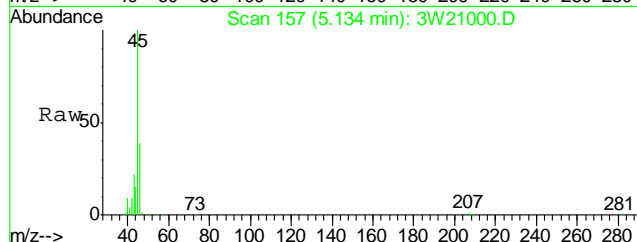
#23
 CARBON DISULFIDE
 Concen: 0.97 PPBV
 RT: 6.18 min Scan# 329
 Delta R.T. 0.01 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

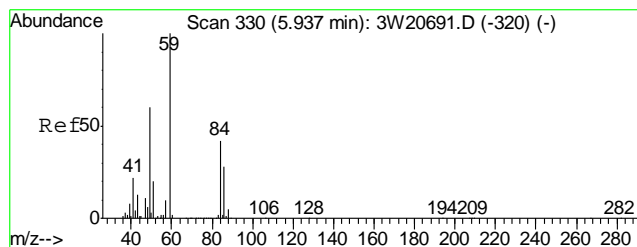
Tgt Ion:	76	Resp:	44005
Ion Ratio	Lower	Upper	
76	100		
78	9.3	0.0	30.5
44	27.7	0.0	31.7



#24
 ETHANOL
 Concen: 19.07 PPBV
 RT: 5.13 min Scan# 157
 Delta R.T. 0.03 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

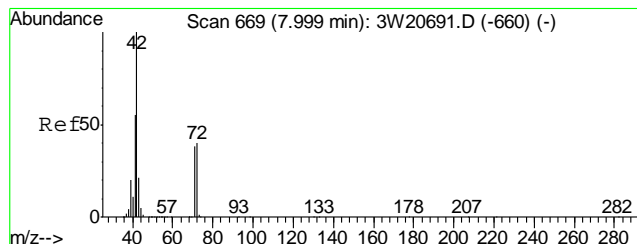
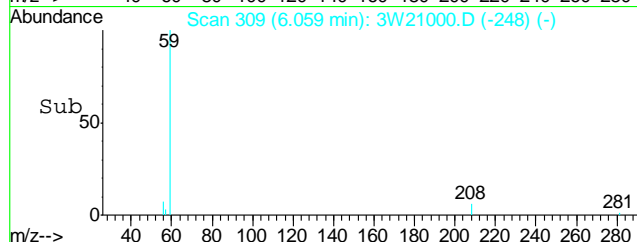
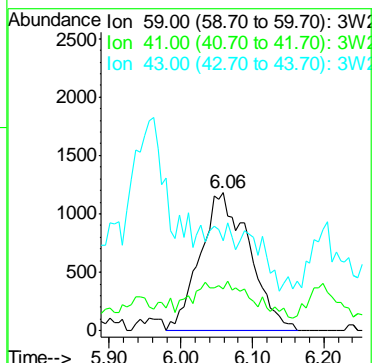
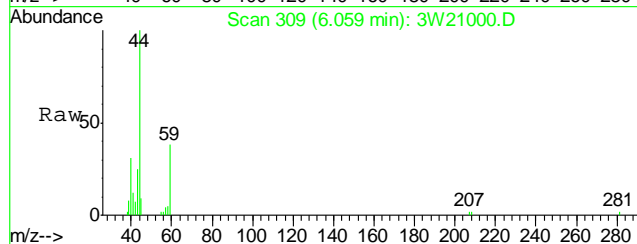
Tgt Ion:	45	Resp:	100129
Ion Ratio	Lower	Upper	
45	100		
46	36.9	18.2	58.2
42	7.5	0.0	27.7





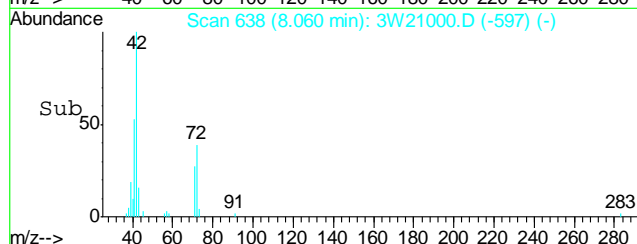
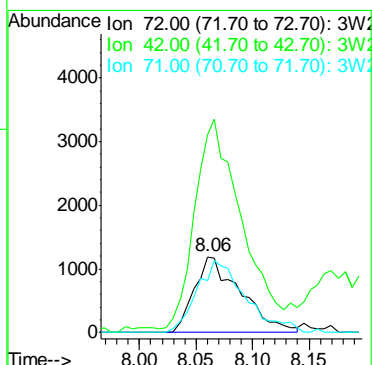
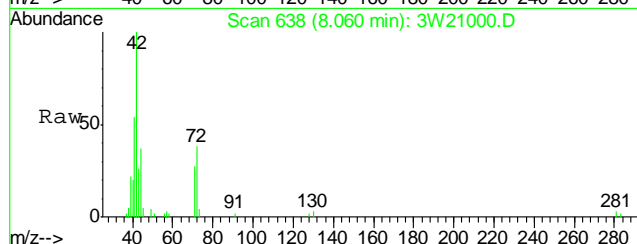
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.24 PPBV
RT: 6.06 min Scan# 309
Delta R.T. 0.07 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

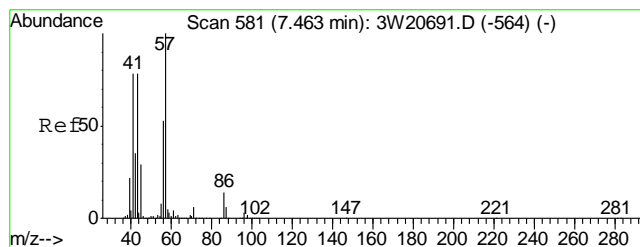
Tgt Ion:	59	Resp:	5664
Ion Ratio	Lower	Upper	
59	100		
41	11.9	0.0	38.0
43	2.5	0.0	33.0



#32
TETRAHYDROFURAN
Concen: 0.66 PPBV
RT: 8.06 min Scan# 638
Delta R.T. 0.05 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

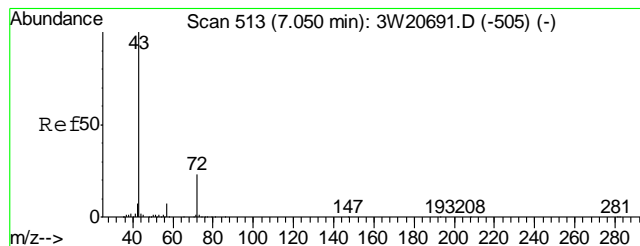
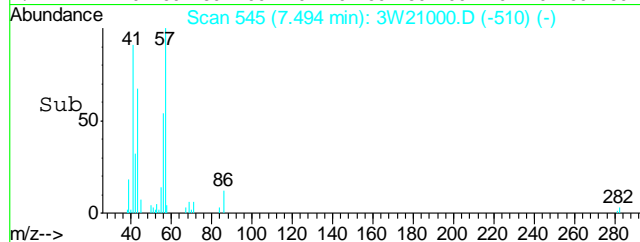
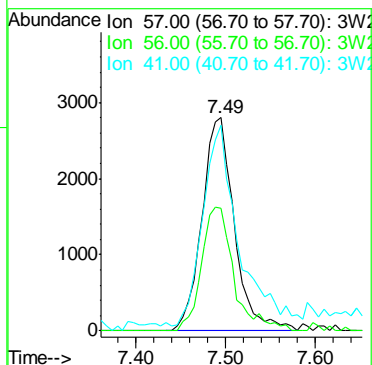
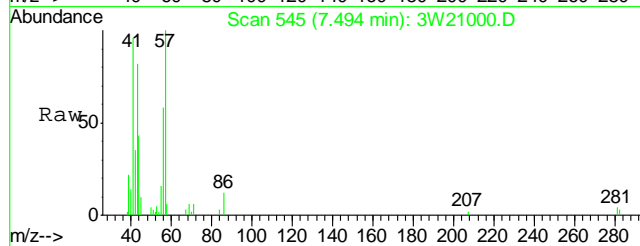
Tgt Ion:	72	Resp:	3396
Ion Ratio	Lower	Upper	
72	100		
42	275.5	219.7	259.7#
71	99.2	75.6	115.6





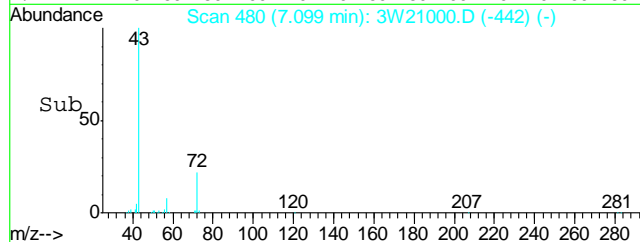
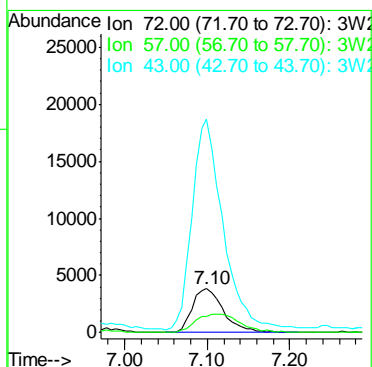
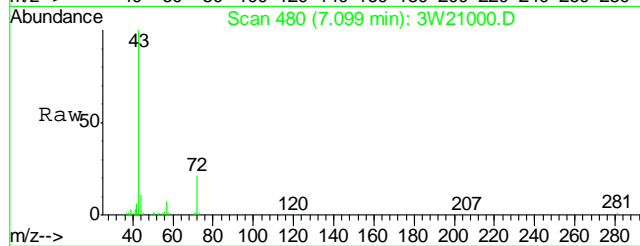
#33
 HEXANE
 Concen: 0.30 PPBV
 RT: 7.49 min Scan# 545
 Delta R.T. 0.01 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

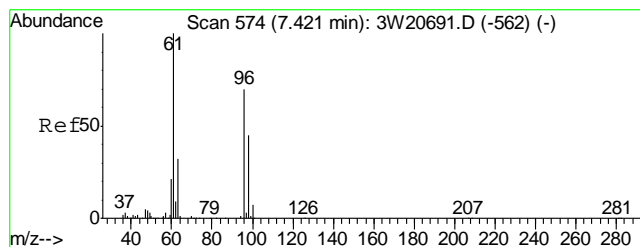
Tgt Ion	Ratio	Lower	Upper
57	100		
56	57.8	30.5	70.5
41	105.0	79.2	119.2



#36
 METHYL ETHYL KETONE
 Concen: 2.10 PPBV
 RT: 7.10 min Scan# 480
 Delta R.T. 0.02 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

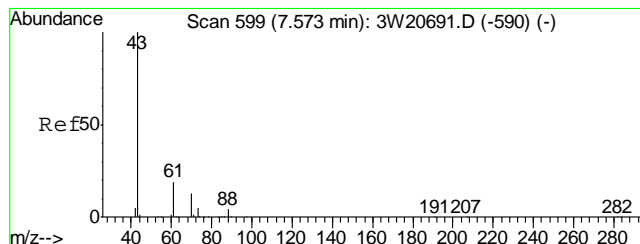
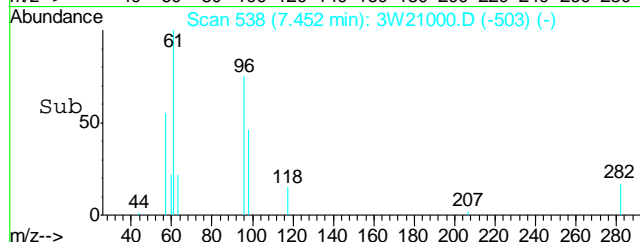
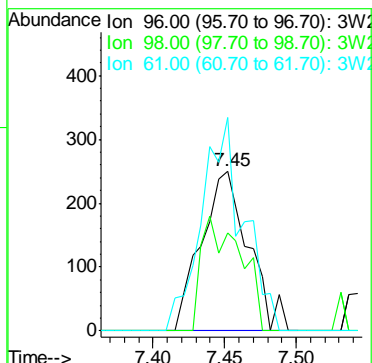
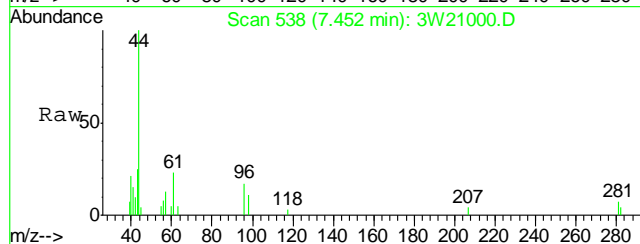
Tgt Ion	Ratio	Lower	Upper
72	100		
57	36.4	11.3	51.3
43	486.0	384.1	424.1#





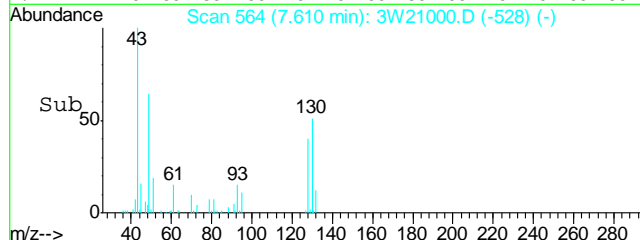
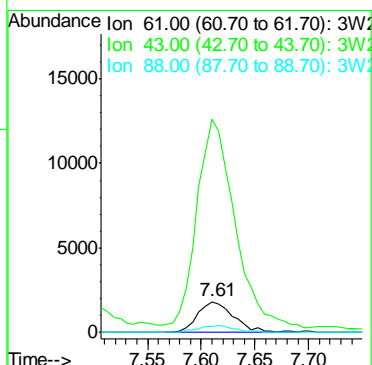
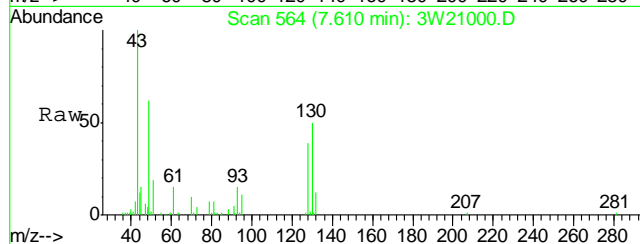
#37
 cis-1,2-DICHLOROETHYLENE
 Concen: 0.04 PPBV
 RT: 7.45 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

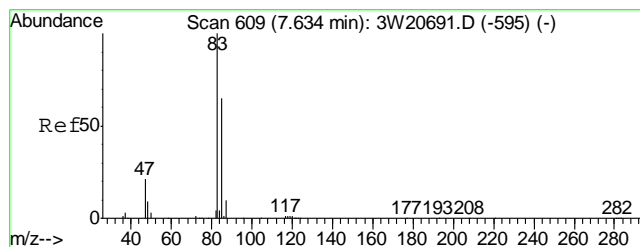
Tgt Ion	Ratio	Lower	Upper
96	100		
98	60.1	44.0	84.0
61	118.8	105.1	145.1



#39
 ETHYL ACETATE
 Concen: 1.29 PPBV
 RT: 7.61 min Scan# 564
 Delta R.T. 0.02 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

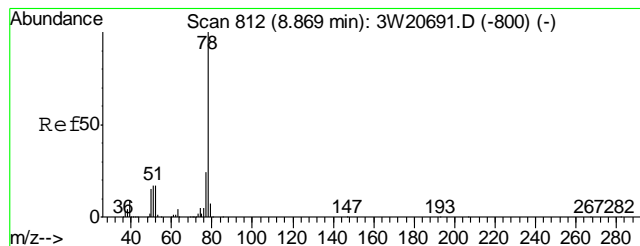
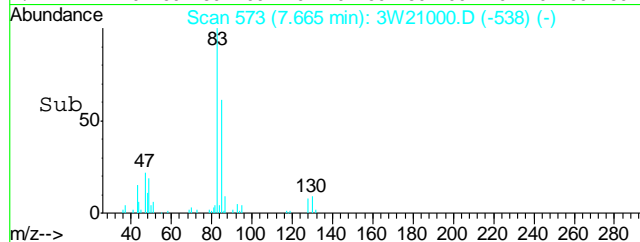
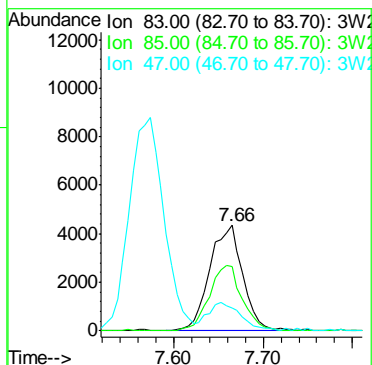
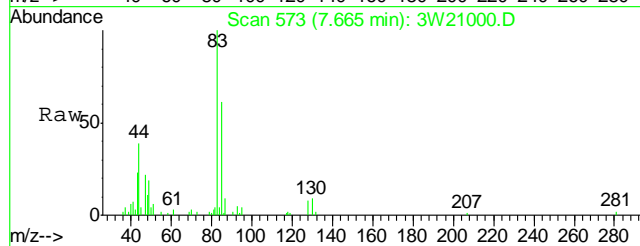
Tgt Ion	Ratio	Lower	Upper
61	100		
43	726.8	682.3	722.3#
88	23.1	6.1	46.1





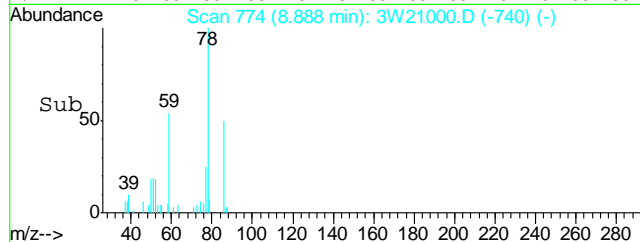
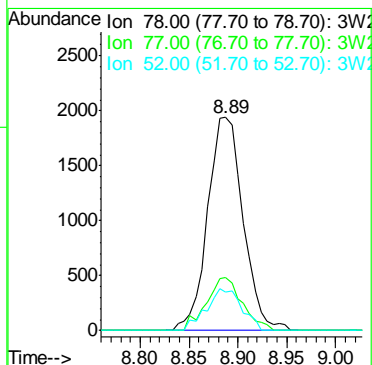
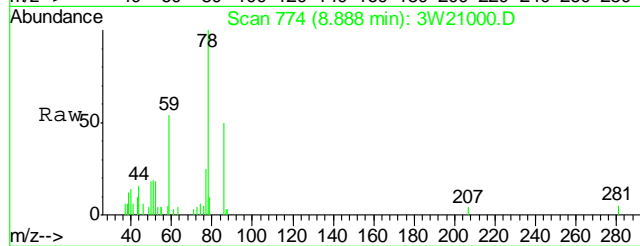
#40
CHLOROFORM
Concen: 0.42 PPBV
RT: 7.66 min Scan# 573
Delta R.T. 0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

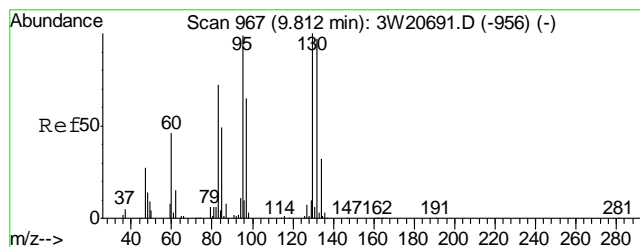
Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.9	44.4	84.4
47	27.2	1.8	41.8



#46
BENZENE
Concen: 0.13 PPBV
RT: 8.89 min Scan# 774
Delta R.T. -0.00 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

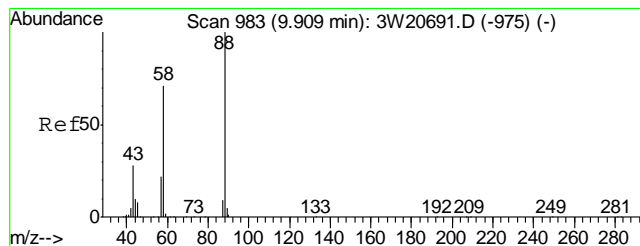
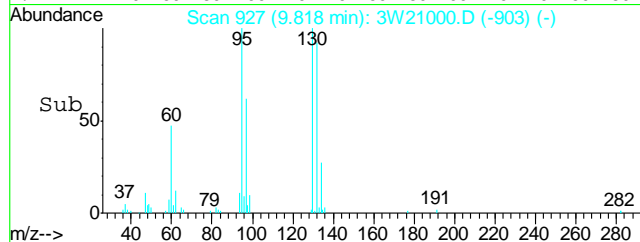
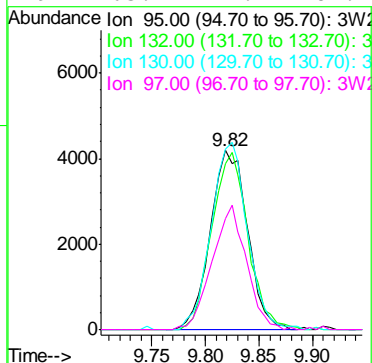
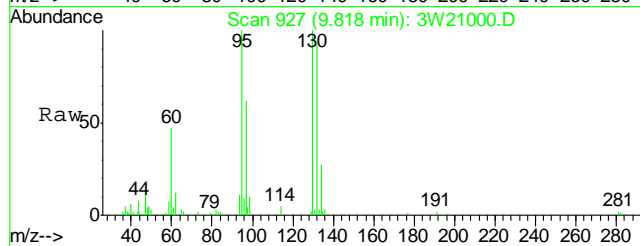
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.6	43.6
52	19.4	0.0	35.5





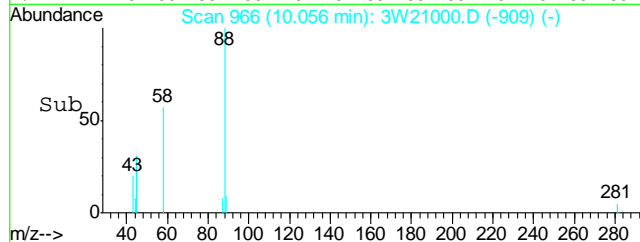
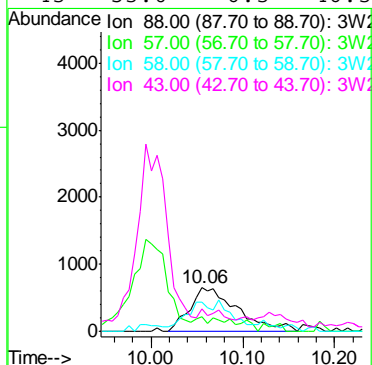
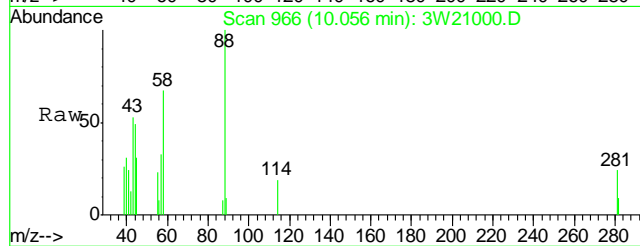
#49
TRICHLOROETHYLENE
Concen: 0.56 PPBV
RT: 9.82 min Scan# 927
Delta R.T. -0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

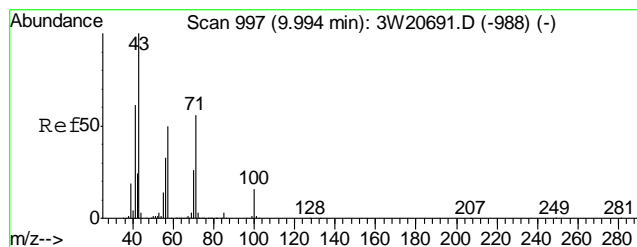
Tgt Ion	Resp	Lower	Upper
95	10088		
132	96.3	83.4	123.4
130	102.0	87.1	127.1
97	63.7	44.2	84.2



#53
1,4-DIOXANE
Concen: 0.36 PPBV m
RT: 10.06 min Scan# 966
Delta R.T. 0.15 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

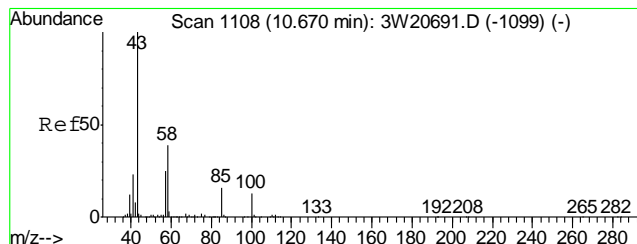
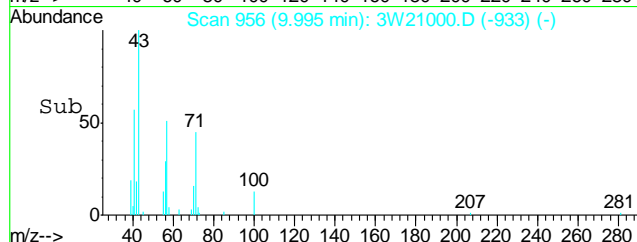
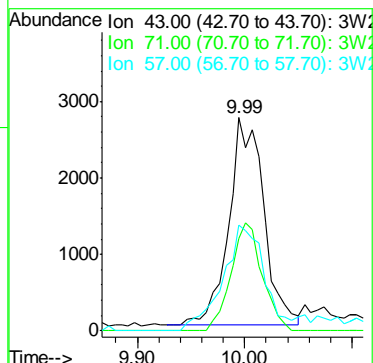
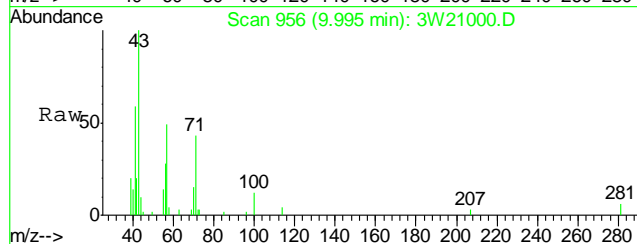
Tgt Ion	Resp	Lower	Upper
88	2326		
57	33.3	6.2	46.2
58	67.0	43.5	83.5
43	53.0	6.3	46.3





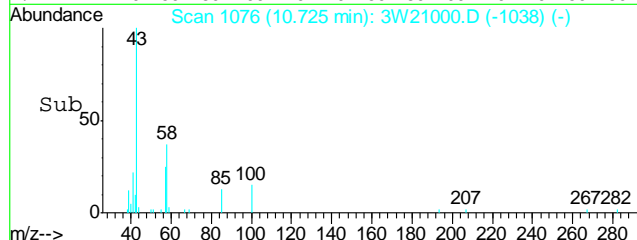
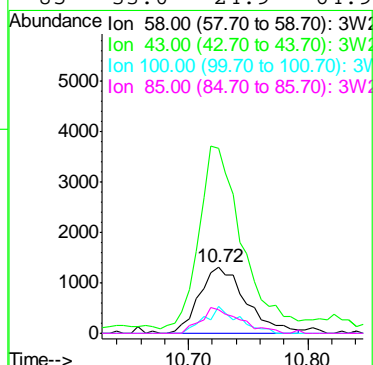
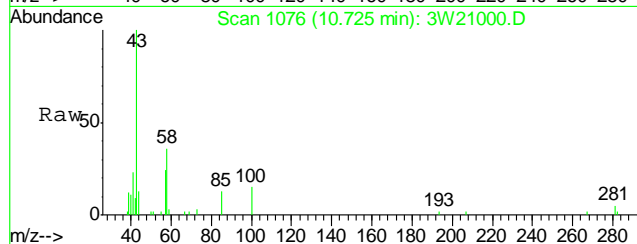
#54
HEPTANE
Concen: 0.24 PPBV
RT: 9.99 min Scan# 956
Delta R.T. -0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

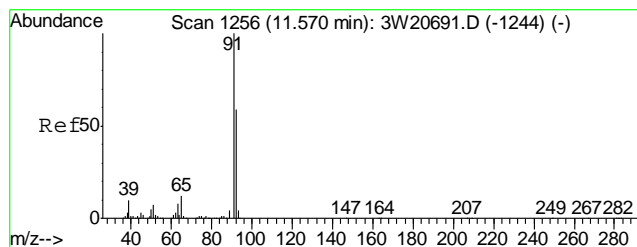
Tgt Ion	Ratio	Lower	Upper
43	100		
71	46.3	36.1	76.1
57	59.6	32.3	72.3



#57
METHYL ISOBUTYL KETONE
Concen: 0.43 PPBV
RT: 10.72 min Scan# 1076
Delta R.T. 0.05 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

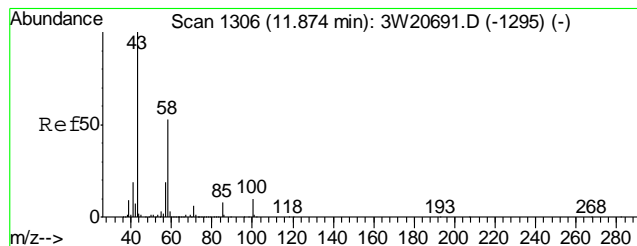
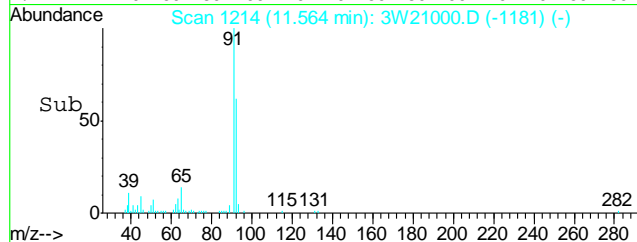
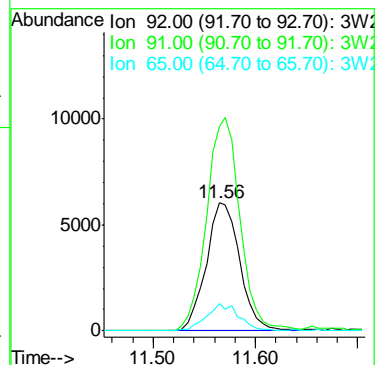
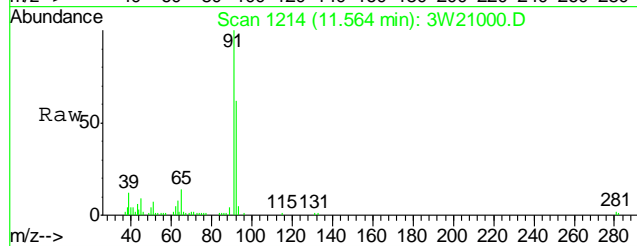
Tgt Ion	Ratio	Lower	Upper
58	100		
43	260.0	229.3	269.3
100	30.3	14.1	54.1
85	33.0	24.9	64.9





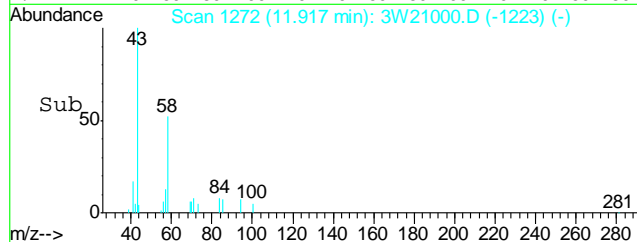
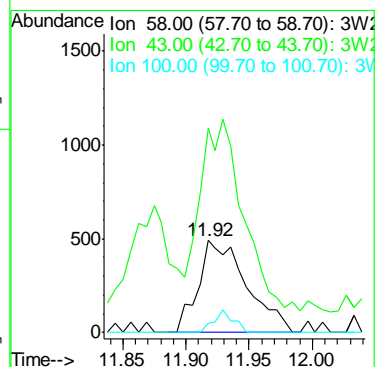
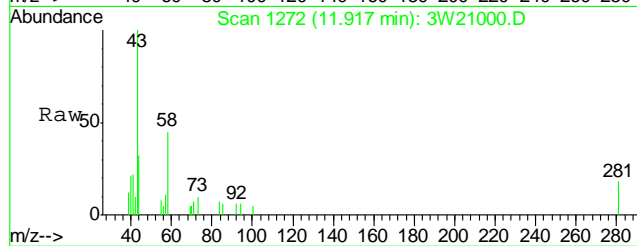
#59
TOLUENE
Concen: 0.58 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

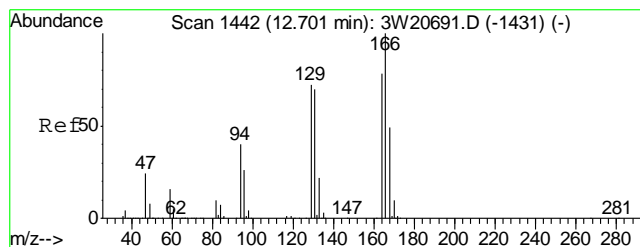
Tgt Ion	Ratio	Lower	Upper
92	100		
91	166.1	148.6	188.6
65	20.5	0.0	38.0



#63
2-HEXANONE
Concen: 0.13 PPBV
RT: 11.92 min Scan# 1272
Delta R.T. 0.06 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

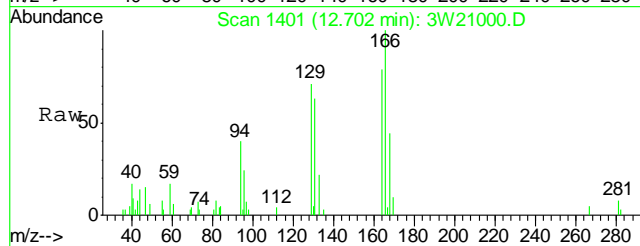
Tgt Ion	Ratio	Lower	Upper
58	100		
43	183.8	166.4	206.4
100	9.7	0.0	39.6





#64
TETRACHLOROETHYLENE
Concen: 0.16 PPBV
RT: 12.70 min Scan# 1401
Delta R.T. -0.00 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

Tgt Ion	Ratio	Lower	Upper
164	100		
129	84.5	65.6	105.6
168	59.4	42.3	82.3
131	84.9	63.0	103.0



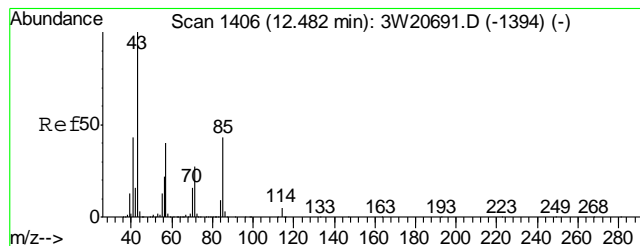
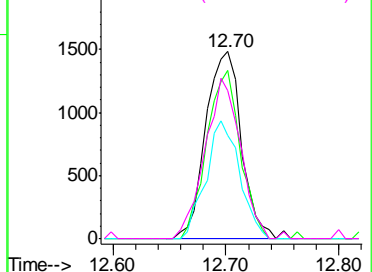
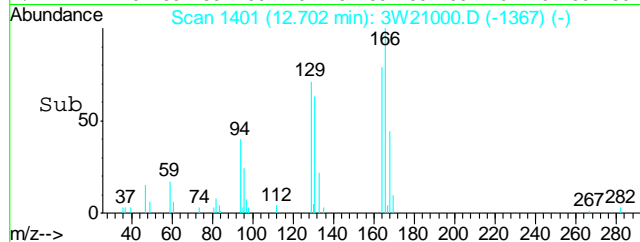
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

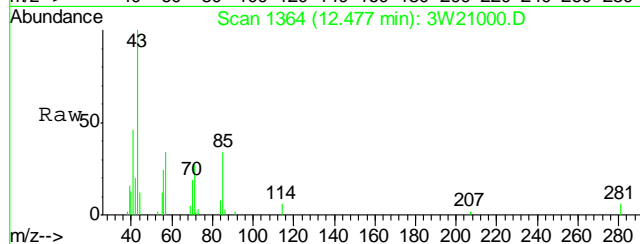
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#67
OCTANE
Concen: 0.17 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

Tgt Ion	Ratio	Lower	Upper
43	100		
85	39.4	24.9	64.9
57	41.1	19.9	59.9

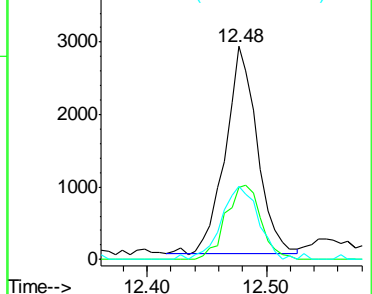
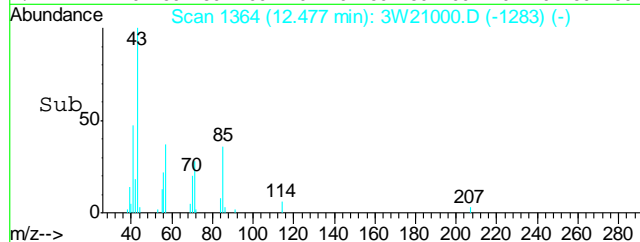


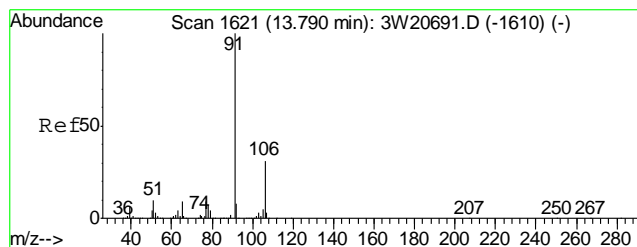
Abundance

Ion 43.00 (42.70 to 43.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

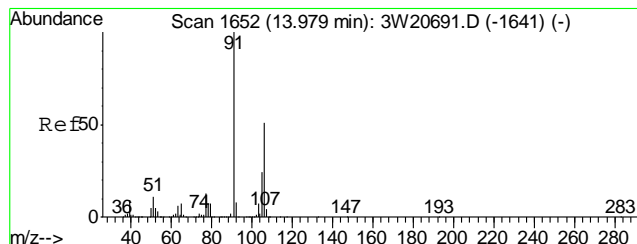
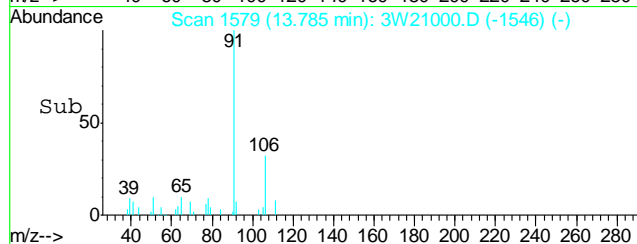
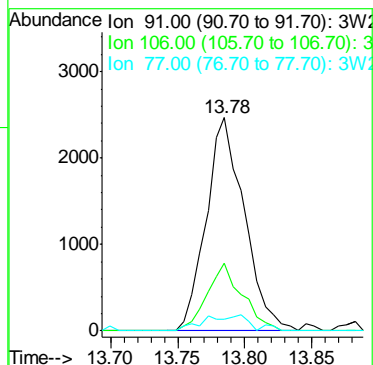
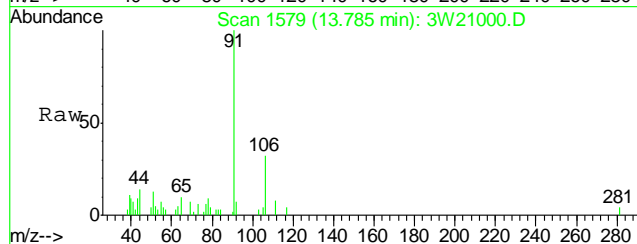
Ion 57.00 (56.70 to 57.70): 3W2





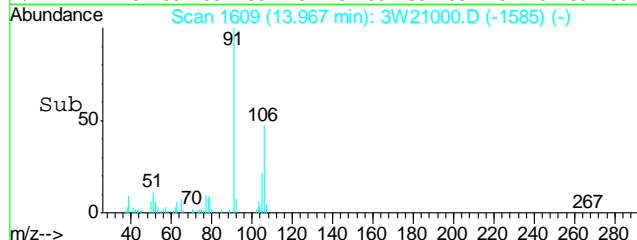
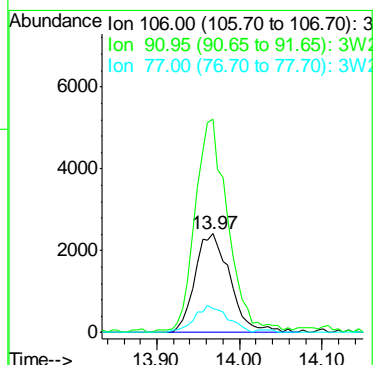
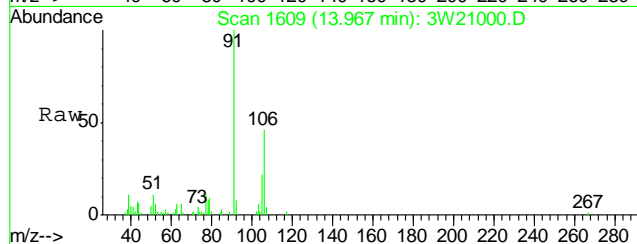
#70
ETHYLBENZENE
Concen: 0.11 PPBV
RT: 13.78 min Scan# 1579
Delta R.T. -0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

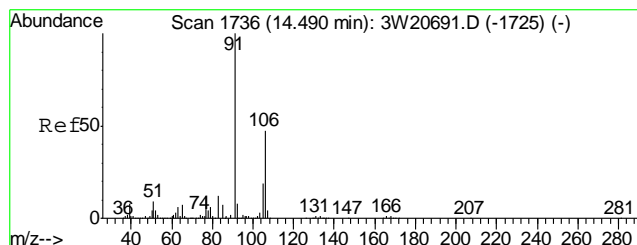
Tgt Ion:	91	Resp:	4872
Ion Ratio	Lower	Upper	
91	100		
106	29.2	11.5	51.5
77	8.3	0.0	28.4



#71
m,p-XYLENE
Concen: 0.41 PPBV
RT: 13.97 min Scan# 1609
Delta R.T. -0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

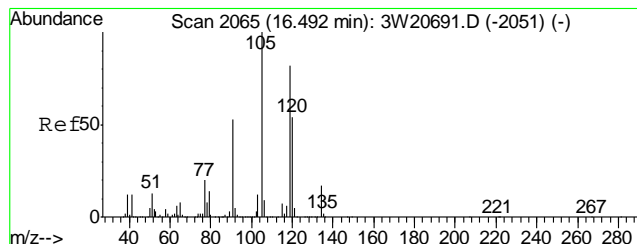
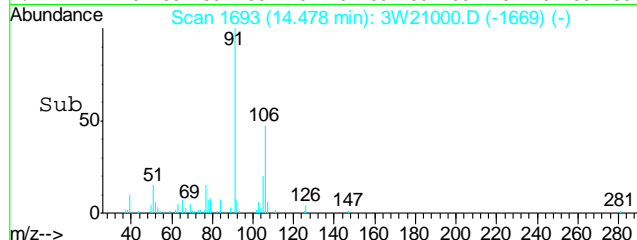
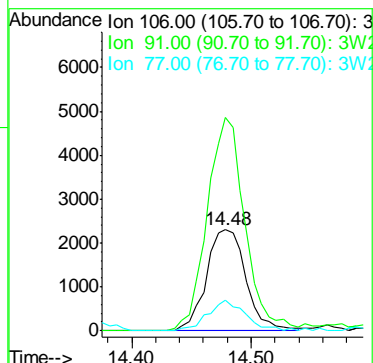
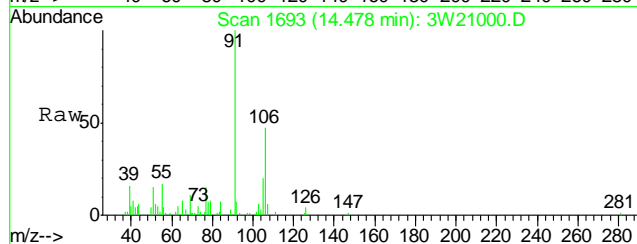
Tgt Ion:	106	Resp:	7104
Ion Ratio	Lower	Upper	
106	100		
91	216.2	176.1	216.1#
77	23.9	4.4	44.4





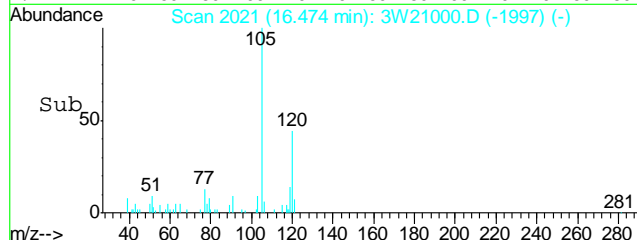
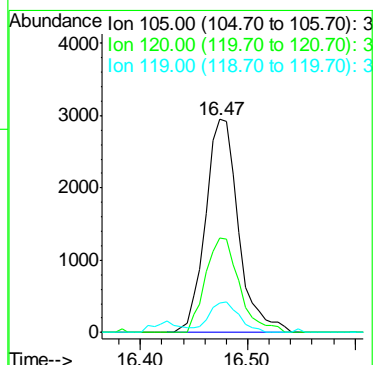
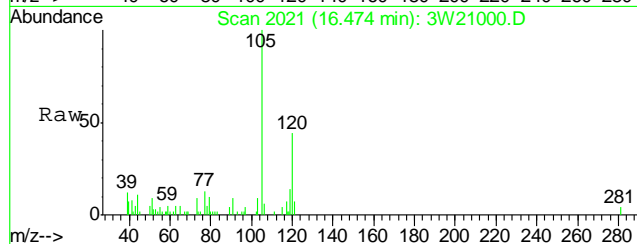
#72
o-XYLENE
Concen: 0.33 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

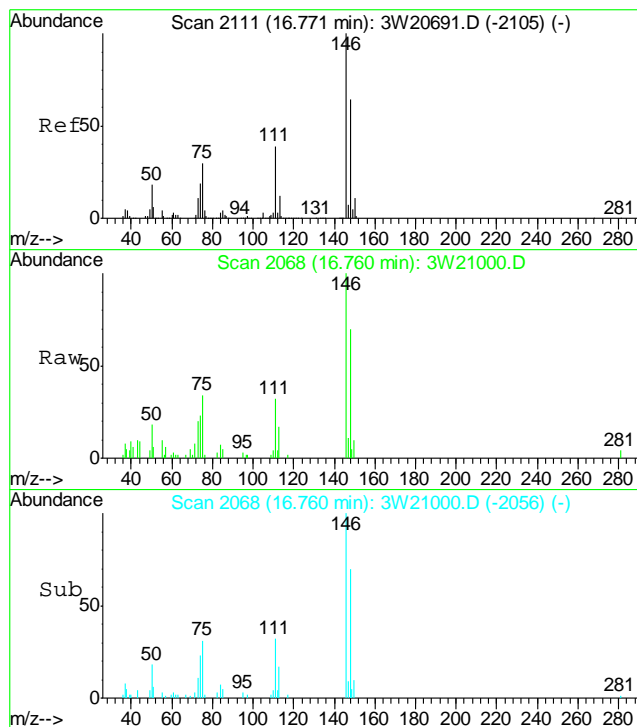
Tgt Ion:	106	Resp:	5352
Ion Ratio	Lower	Upper	
106	100		
91	199.7	186.8	226.8
77	29.1	3.9	43.9



#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.26 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W21000.D
Acq: 25 Feb 2011 4:54 am

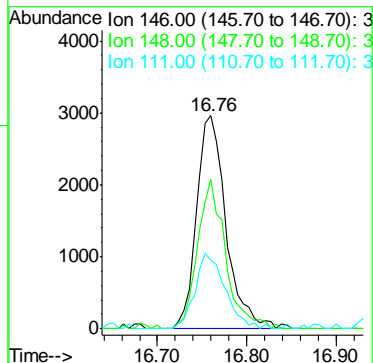
Tgt Ion:	105	Resp:	6293
Ion Ratio	Lower	Upper	
105	100		
120	45.2	39.2	79.2
119	13.0	104.5	144.5#





#88
 p-DICHLOROBENZENE
 Concen: 0.45 PPBV
 RT: 16.76 min Scan# 2068
 Delta R.T. -0.01 min
 Lab File: 3W21000.D
 Acq: 25 Feb 2011 4:54 am

Tgt Ion:	146	Resp:	6768
Ion Ratio	Lower	Upper	
146	100		
148	66.5	44.2	84.2
111	36.2	14.5	54.5



Manual Integration Approval Summary

Sample Number: JA68565-1

Method: TO-15

Lab FileID: 3W21000.D

Analyst approved: 02/25/11 17:10 Yunxia Chen

Injection Time: 02/25/11 04:54

Supervisor approved: 03/10/11 05:12 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propylene	115-07-1		4.34	Missed peak
1,4-Dioxane	123-91-1		10.06	Split peak

6.1.1.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21011.D Vial: 2
 Acq On : 25 Feb 2011 2:18 pm Operator: yunxiac
 Sample : JA68565-1 Inst : MS3W
 Misc : MS8536,V3W829,30,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 15:40:28 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	165713	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	795827	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	362134	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	362589	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 196924 5.12 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 102.40%

Target Compounds

						Qvalue
6) PROPYLENE	4.34	41	6082	0.33	PPBV #	76
11) n-BUTANE	4.73	43	97475	3.04	PPBV #	92
17) ISOPROPYL ALCOHOL	5.66	45	67161m	2.48	PPBV	
18) ACETONE	5.38	58	120562	18.42	PPBV #	85
22) 1,1-DICHLOROETHYLENE	5.87	96	2030	0.10	PPBV	97
23) CARBON DISULFIDE	6.17	76	17600	0.30	PPBV #	55
24) ETHANOL	5.17	45	37799	5.60	PPBV	99
32) TETRAHYDROFURAN	8.14	72	1290	0.19	PPBV #	83
36) METHYL ETHYL KETONE	7.13	72	3447	0.56	PPBV #	68
39) ETHYL ACETATE	7.65	61	1359	0.32	PPBV #	79
40) CHLOROFORM	7.66	83	3903	0.11	PPBV	94
49) TRICHLOROETHYLENE	9.82	95	3925	0.17	PPBV	95
57) METHYL ISOBUTYL KETONE	10.78	58	1209	0.11	PPBV	92
59) TOLUENE	11.57	92	4679	0.15	PPBV	97
64) TETRACHLOROETHYLENE	12.70	164	1160	0.05	PPBV	94
71) m,p-XYLENE	13.97	106	2185	0.10	PPBV #	80
88) p-DICHLOROBENZENE	16.77	146	2241	0.12	PPBV	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21011.D M3W821.M Mon Feb 28 14:57:57 2011 MS3W

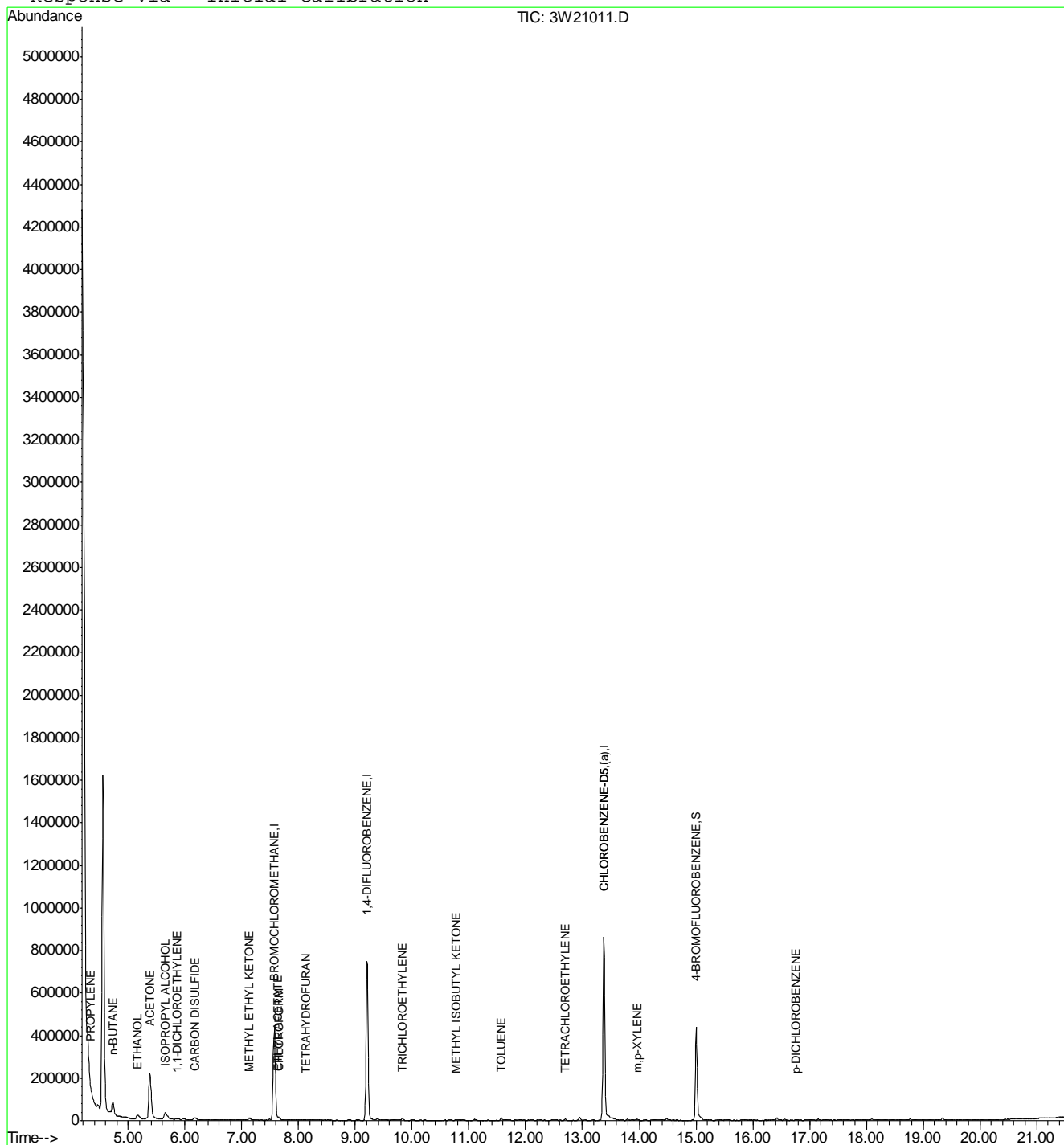
Quantitation Report (QT Reviewed)

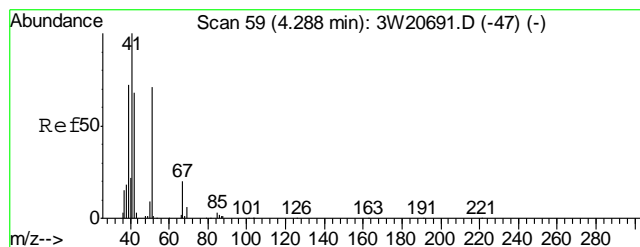
Data File : C:\MSDCHEM\1\DATA\3W21011.D
Acq On : 25 Feb 2011 2:18 pm
Sample : JA68565-1
Misc : MS8536,V3W829,30,,,1
MS Integration Params: rteint.p
Quant Time: Feb 28 14:57 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration





#6

PROPYLENE

Concen: 0.33 PPBV

RT: 4.34 min Scan# 27

Delta R.T. 0.01 min

Lab File: 3W21011.D

Acq: 25 Feb 2011 2:18 pm

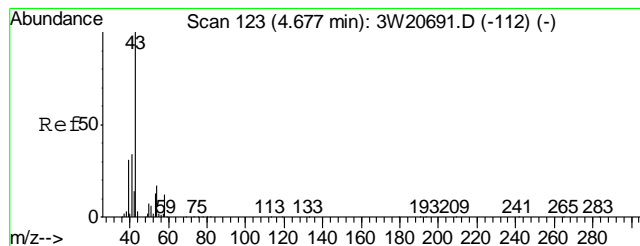
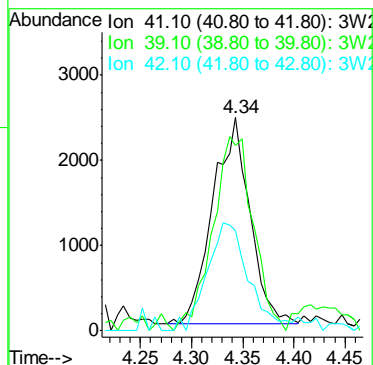
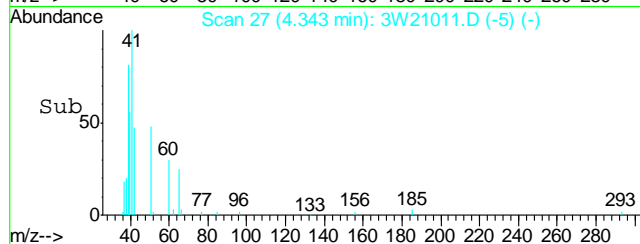
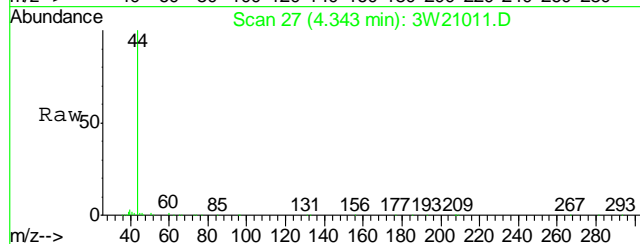
Tgt Ion: 41 Resp: 6082

Ion Ratio Lower Upper

41 100

39 102.9 50.7 90.7#

42 59.1 46.0 86.0



#11

n-BUTANE

Concen: 3.04 PPBV

RT: 4.73 min Scan# 90

Delta R.T. 0.01 min

Lab File: 3W21011.D

Acq: 25 Feb 2011 2:18 pm

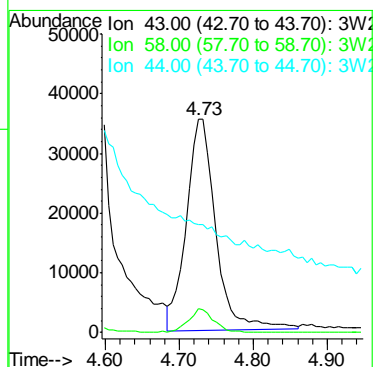
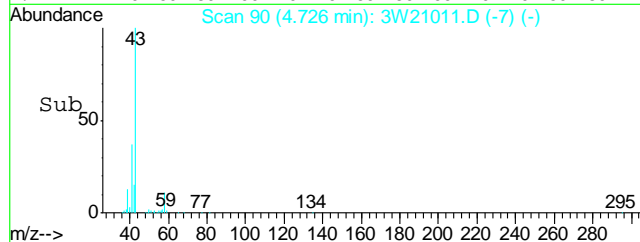
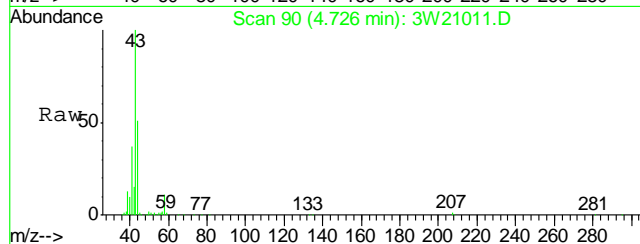
Tgt Ion: 43 Resp: 97475

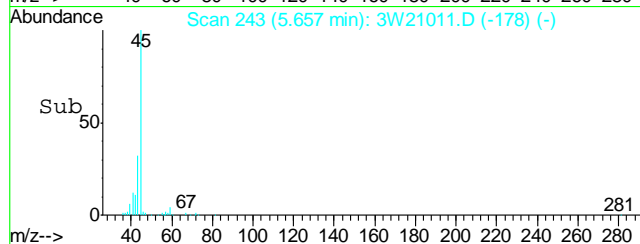
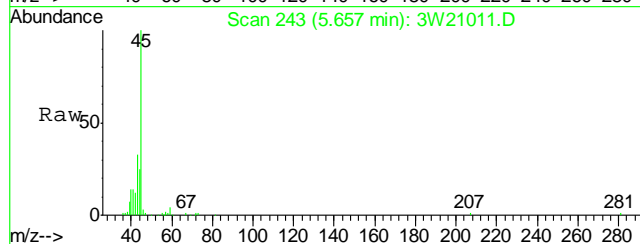
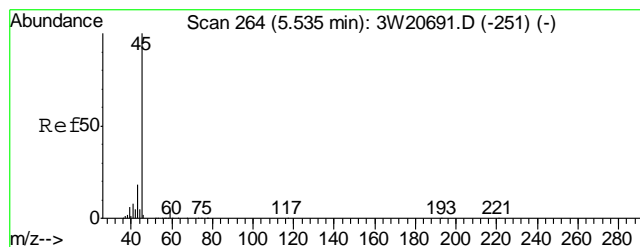
Ion Ratio Lower Upper

43 100

58 9.6 0.0 32.1

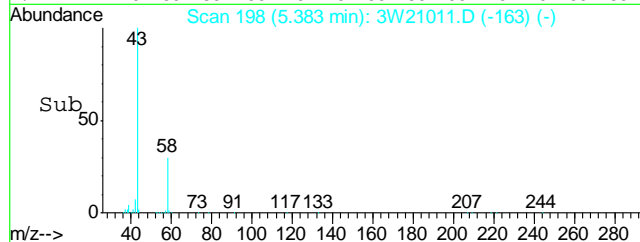
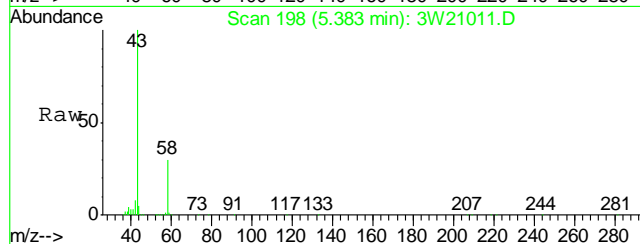
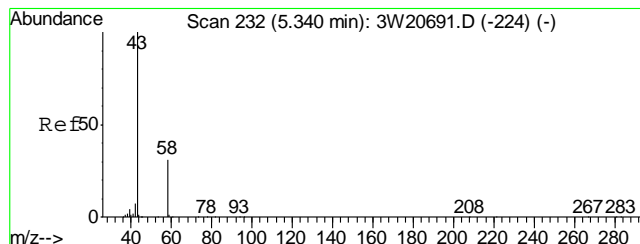
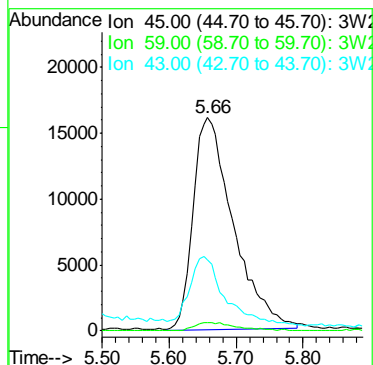
44 0.0 0.0 23.9





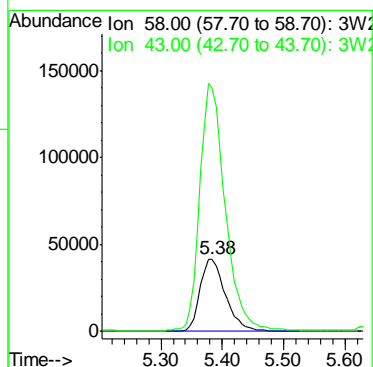
#17
ISOPROPYL ALCOHOL
Concen: 2.48 PPBV m
RT: 5.66 min Scan# 243
Delta R.T. 0.10 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm

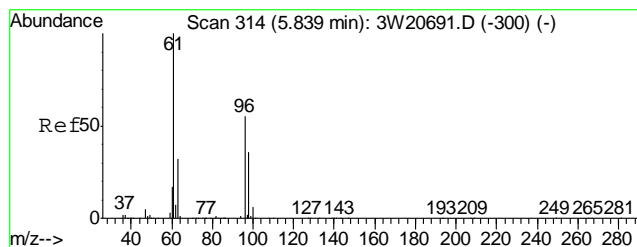
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.9	0.0	23.7
43	33.2	0.0	37.4



#18
ACETONE
Concen: 18.42 PPBV
RT: 5.38 min Scan# 198
Delta R.T. 0.01 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm

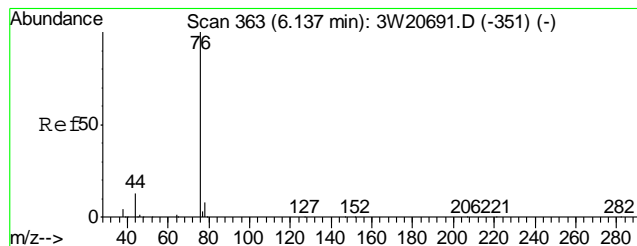
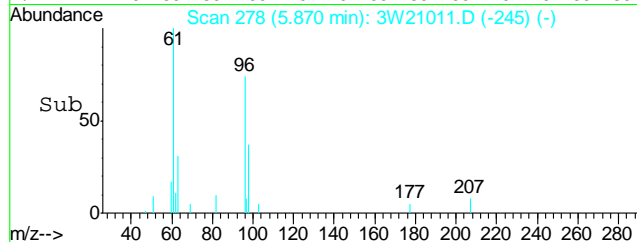
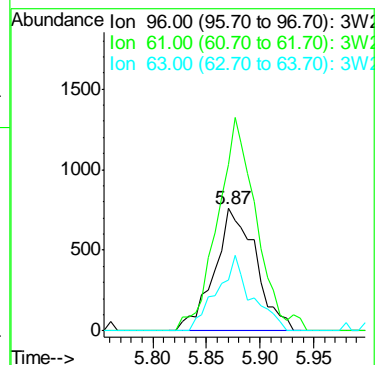
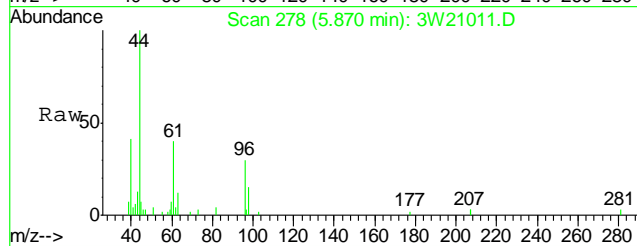
Tgt Ion	Ratio	Lower	Upper
58	100		
43	339.8	289.1	329.1#





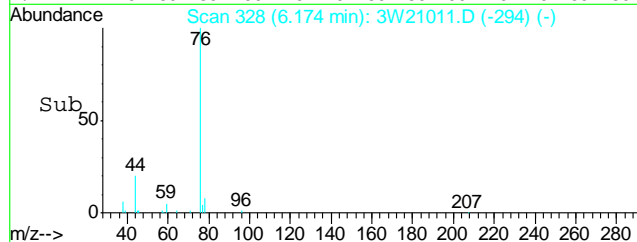
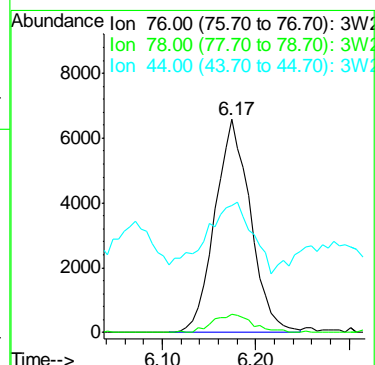
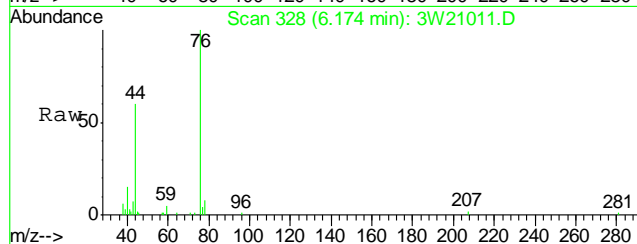
#22
1,1-DICHLOROETHYLENE
Concen: 0.10 PPBV
RT: 5.87 min Scan# 278
Delta R.T. -0.01 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm

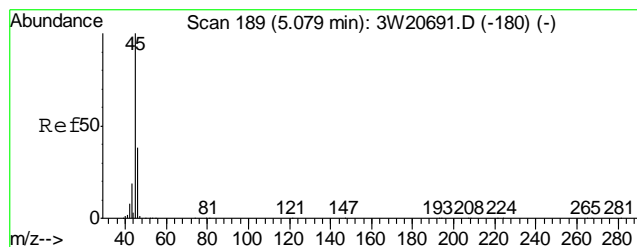
Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.3	137.7	177.7
63	51.9	31.6	71.6



#23
CARBON DISULFIDE
Concen: 0.30 PPBV
RT: 6.17 min Scan# 328
Delta R.T. -0.00 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	30.5
44	43.8	0.0	31.7#





#24

ETHANOL

Concen: 5.60 PPBV

RT: 5.17 min Scan# 163

Delta R.T. 0.06 min

Lab File: 3W21011.D

Acq: 25 Feb 2011 2:18 pm

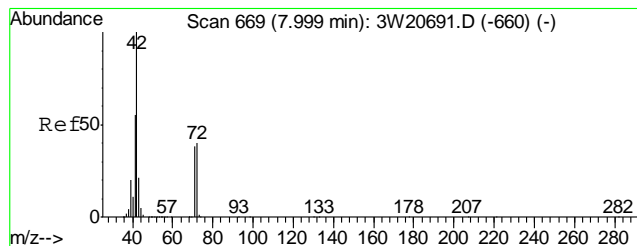
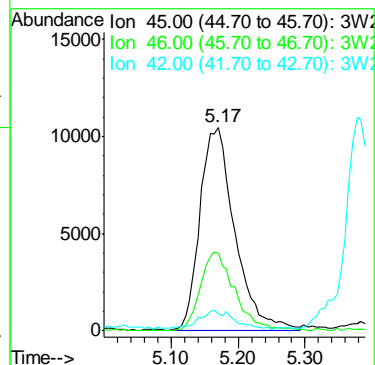
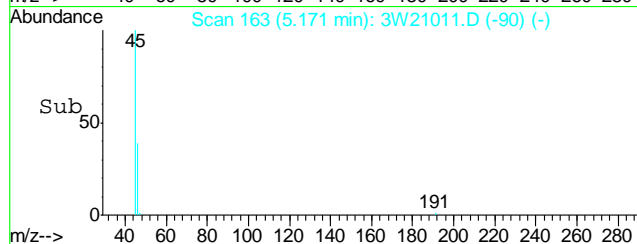
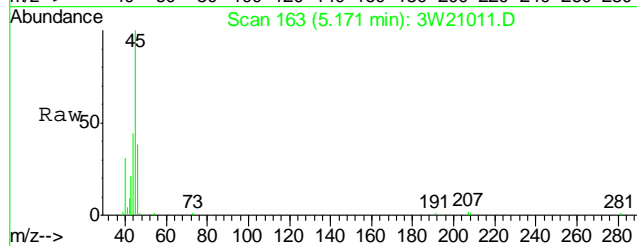
Tgt Ion: 45 Resp: 37799

Ion Ratio Lower Upper

45 100

46 38.3 18.2 58.2

42 9.2 0.0 27.7



#32

TETRAHYDROFURAN

Concen: 0.19 PPBV

RT: 8.14 min Scan# 651

Delta R.T. 0.13 min

Lab File: 3W21011.D

Acq: 25 Feb 2011 2:18 pm

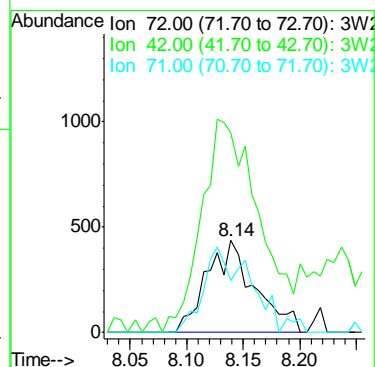
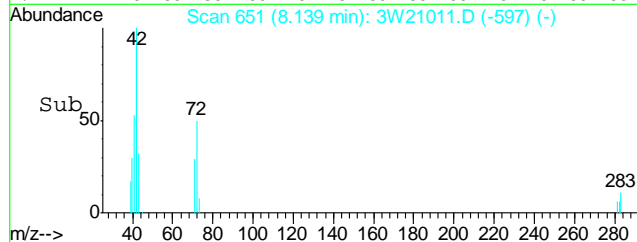
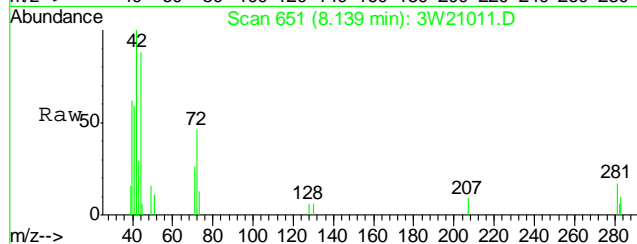
Tgt Ion: 72 Resp: 1290

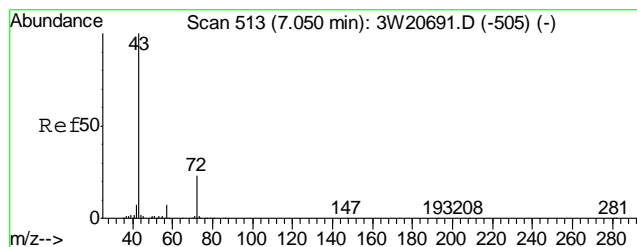
Ion Ratio Lower Upper

72 100

42 276.0 219.7 259.7#

71 91.4 75.6 115.6





#36

METHYL ETHYL KETONE

Concen: 0.56 PPBV

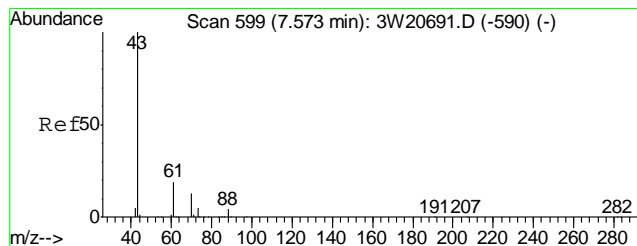
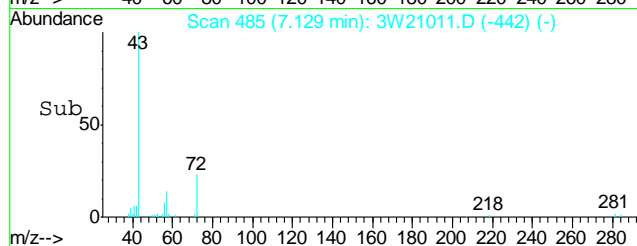
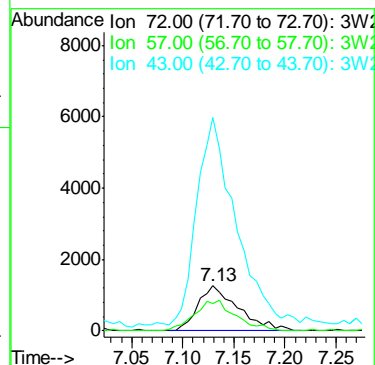
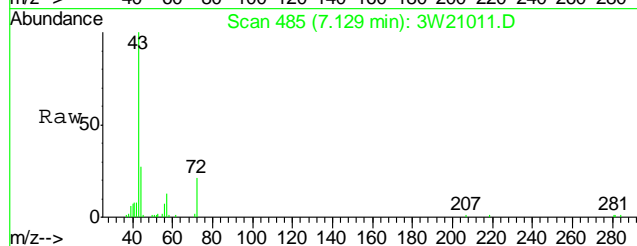
RT: 7.13 min Scan# 485

Delta R.T. 0.05 min

Lab File: 3W21011.D

Acq: 25 Feb 2011 2:18 pm

Tgt Ion	Ratio	Lower	Upper
72	100		
57	59.9	11.3	51.3#
43	477.1	384.1	424.1#



#39

ETHYL ACETATE

Concen: 0.32 PPBV

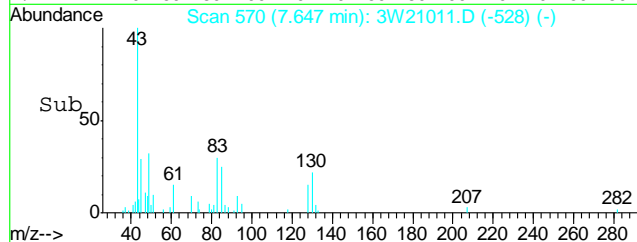
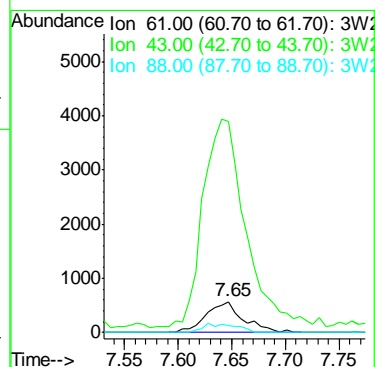
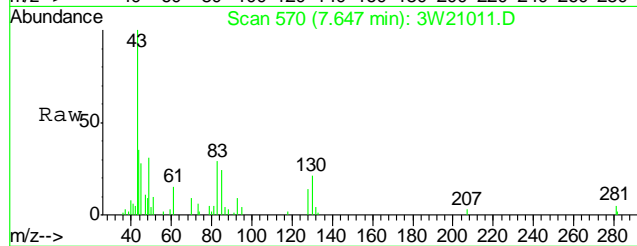
RT: 7.65 min Scan# 570

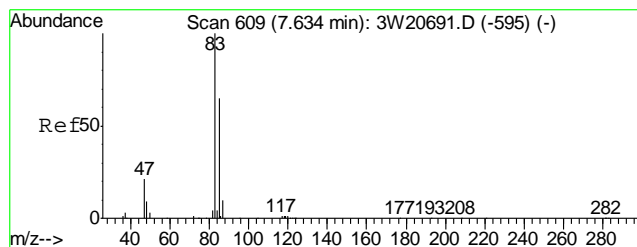
Delta R.T. 0.06 min

Lab File: 3W21011.D

Acq: 25 Feb 2011 2:18 pm

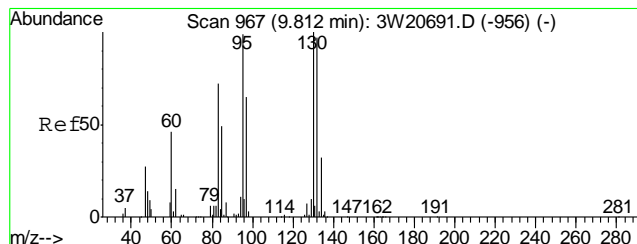
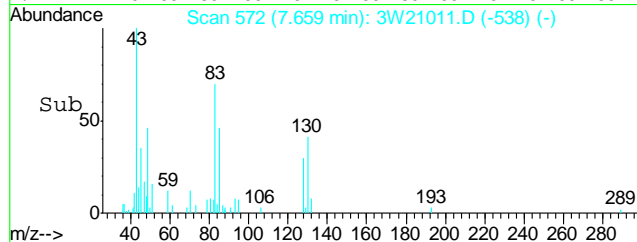
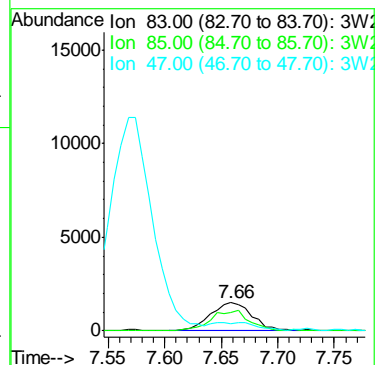
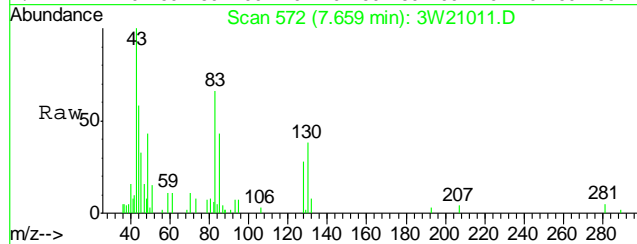
Tgt Ion	Ratio	Lower	Upper
61	100		
43	779.2	682.3	722.3#
88	26.8	6.1	46.1





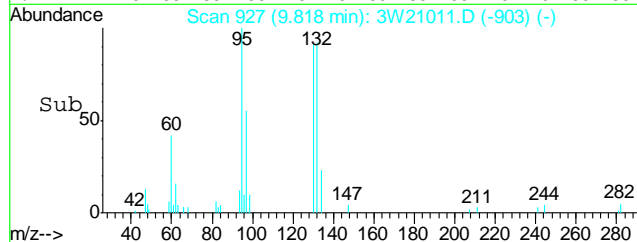
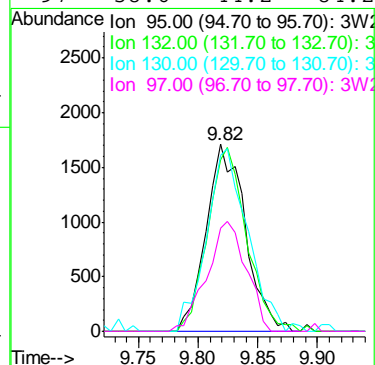
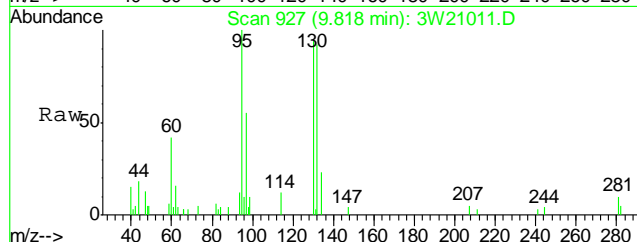
#40
CHLOROFORM
Concen: 0.11 PPBV
RT: 7.66 min Scan# 572
Delta R.T. -0.00 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm

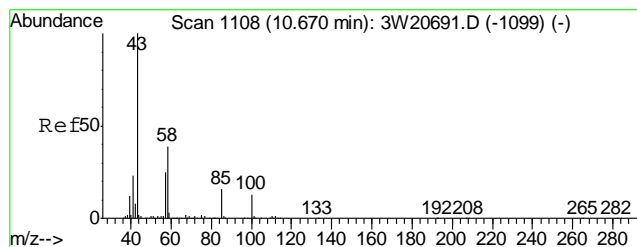
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	44.4	84.4
47	31.4	1.8	41.8



#49
TRICHLOROETHYLENE
Concen: 0.17 PPBV
RT: 9.82 min Scan# 927
Delta R.T. -0.01 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm

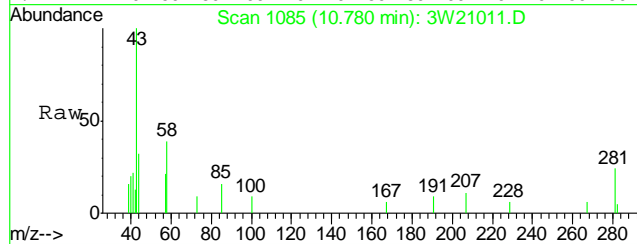
Tgt Ion	Ratio	Lower	Upper
95	100		
132	97.9	83.4	123.4
130	103.0	87.1	127.1
97	58.6	44.2	84.2





#57
METHYL ISOBUTYL KETONE
Concen: 0.11 PPBV
RT: 10.78 min Scan# 1085
Delta R.T. 0.11 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm

Tgt Ion	Ratio	Lower	Upper
58	100		
43	240.8	229.3	269.3
100	21.4	14.1	54.1
85	33.9	24.9	64.9



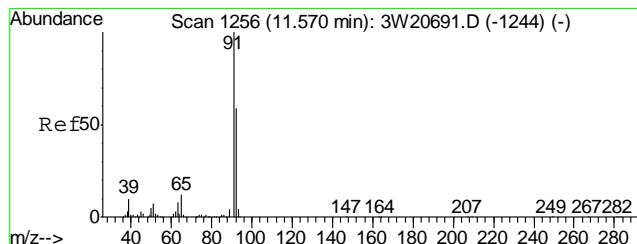
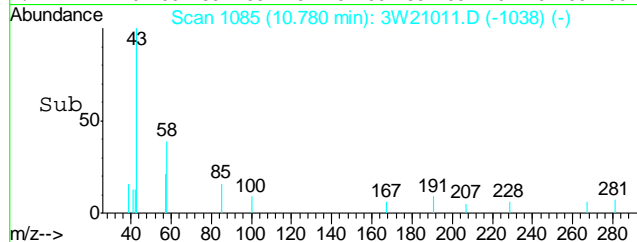
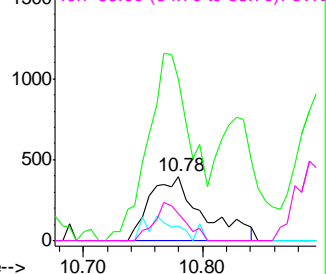
Abundance

Ion 58.00 (57.70 to 58.70): 3W21011.D

Ion 43.00 (42.70 to 43.70): 3W21011.D

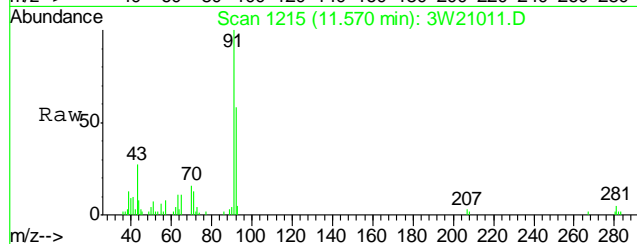
Ion 100.00 (99.70 to 100.70): 3W21011.D

Ion 85.00 (84.70 to 85.70): 3W21011.D



#59
TOLUENE
Concen: 0.15 PPBV
RT: 11.57 min Scan# 1215
Delta R.T. -0.00 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm

Tgt Ion	Ratio	Lower	Upper
92	100		
91	163.9	148.6	188.6
65	19.1	0.0	38.0

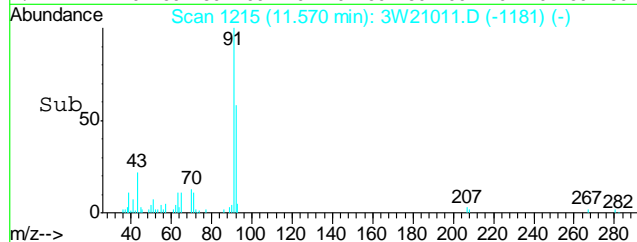
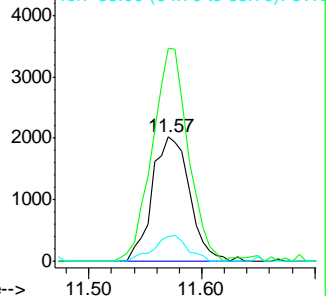


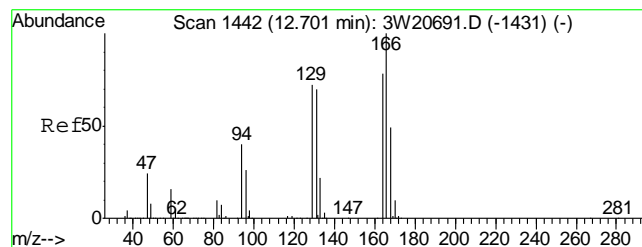
Abundance

Ion 92.00 (91.70 to 92.70): 3W21011.D

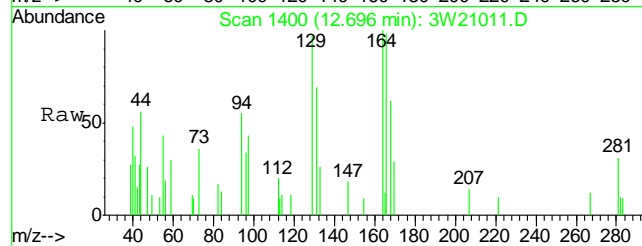
Ion 91.00 (90.70 to 91.70): 3W21011.D

Ion 65.00 (64.70 to 65.70): 3W21011.D

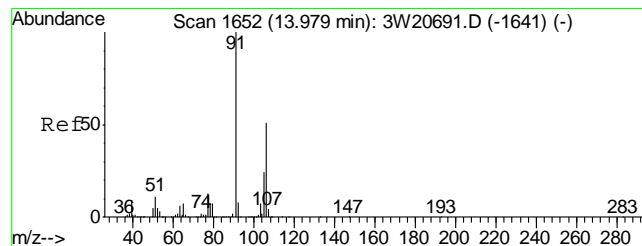
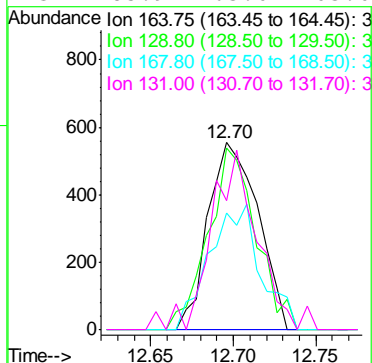
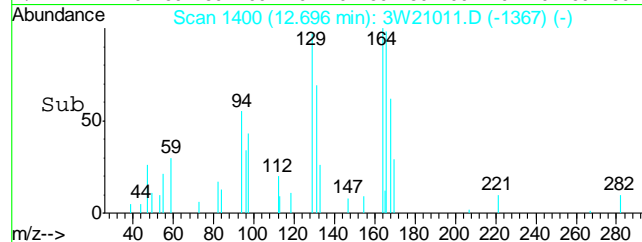




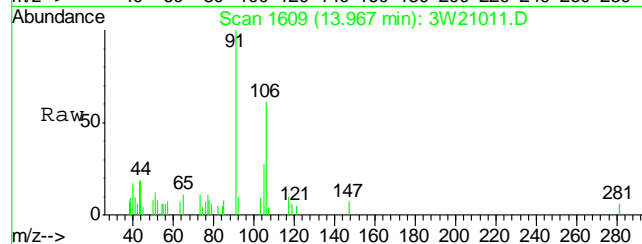
#64
TETRACHLOROETHYLENE
Concen: 0.05 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm



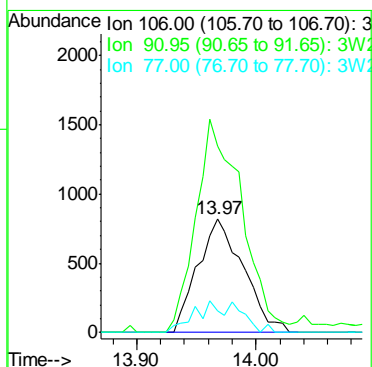
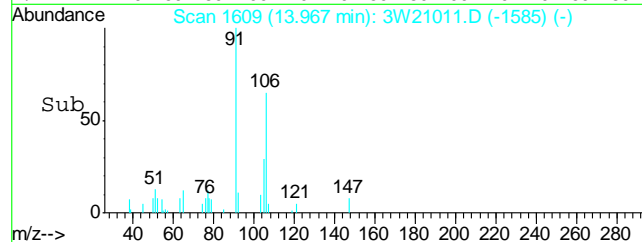
Tgt Ion	Ratio	Lower	Upper
164	100		
129	92.6	65.6	105.6
168	68.4	42.3	82.3
131	85.9	63.0	103.0

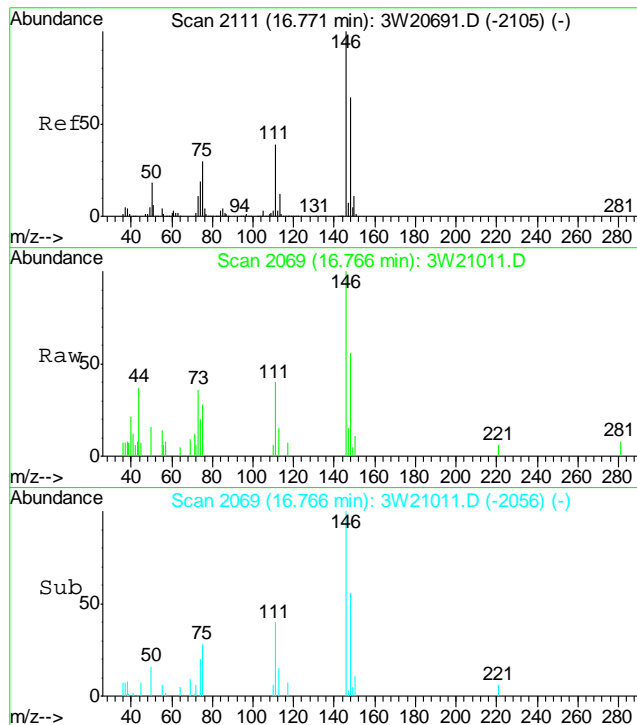


#71
m,p-XYLENE
Concen: 0.10 PPBV
RT: 13.97 min Scan# 1609
Delta R.T. -0.01 min
Lab File: 3W21011.D
Acq: 25 Feb 2011 2:18 pm



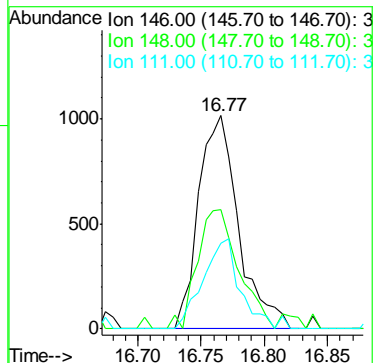
Tgt Ion	Ratio	Lower	Upper
106	100		
91	164.4	176.1	216.1#
77	18.7	4.4	44.4





#88
 p-DICHLOROBENZENE
 Concen: 0.12 PPBV
 RT: 16.77 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: 3W21011.D
 Acq: 25 Feb 2011 2:18 pm

Tgt Ion:	146	Resp:	2241
Ion Ratio	Lower	Upper	
146	100		
148	58.1	44.2	84.2
111	39.5	14.5	54.5



Manual Integration Approval Summary

Sample Number: JA68565-1

Method: TO-15

Lab FileID: 3W21011.D

Analyst approved: 02/25/11 16:01 Yunxia Chen

Injection Time: 02/25/11 14:18

Supervisor approved: 03/10/11 05:12 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
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Isopropyl Alcohol	67-63-0		5.66	Poorly defined baseline
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6.1.2.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21001.D Vial: 1
 Acq On : 25 Feb 2011 5:33 am Operator: yunxiac
 Sample : ja68565-2 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:11:35 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	139906	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	676966	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	311636	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	312572	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 178184 5.38 PPBV -0.01
 Spiked Amount 5.000 Range 65 - 128 Recovery = 107.60%

Target Compounds

						Qvalue
5) DICHLORODIFLUOROMETHANE	4.39	85	5458	0.13	PPBV	97
11) n-BUTANE	4.73	43	407156	15.02	PPBV	88
17) ISOPROPYL ALCOHOL	5.61	45	42027	1.84	PPBV	69
18) ACETONE	5.37	58	198687	35.95	PPBV #	89
19) PENTANE	5.64	42	13451	0.72	PPBV	84
22) 1,1-DICHLOROETHYLENE	5.88	96	3259	0.20	PPBV	89
23) CARBON DISULFIDE	6.18	76	6943	0.14	PPBV #	55
24) ETHANOL	5.13	45	46429	8.15	PPBV	99
30) TERTIARY BUTYL ALCOHOL	6.06	59	4771	0.18	PPBV	91
33) HEXANE	7.49	57	8092	0.32	PPBV	97
36) METHYL ETHYL KETONE	7.10	72	5894	1.14	PPBV #	78
39) ETHYL ACETATE	7.61	61	5897	1.63	PPBV #	84
40) CHLOROFORM	7.65	83	247611	8.63	PPBV	98
46) BENZENE	8.88	78	5008	0.12	PPBV	97
47) CYCLOHEXANE	9.06	56	5243	0.20	PPBV #	44
49) TRICHLOROETHYLENE	9.82	95	203711	10.26	PPBV	96
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	8219	0.12	PPBV #	54
54) HEPTANE	10.00	43	7631	0.27	PPBV	89
59) TOLUENE	11.56	92	14212	0.55	PPBV	97
63) 2-HEXANONE	11.90	58	2416	0.22	PPBV #	62
64) TETRACHLOROETHYLENE	12.70	164	7693	0.35	PPBV	97
67) OCTANE	12.48	43	6840	0.20	PPBV	87
70) ETHYLBENZENE	13.78	91	6082	0.12	PPBV	97
71) m,p-XYLENE	13.96	106	9374	0.51	PPBV	97
72) o-XYLENE	14.48	106	4871	0.28	PPBV	96
74) NONANE	14.66	43	4385	0.15	PPBV	97
82) 4-ETHYLTOLUENE	15.88	105	3437	0.10	PPBV	96
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	3435	0.11	PPBV	98
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	10847	0.42	PPBV #	30
88) p-DICHLOROBENZENE	16.76	146	5112	0.32	PPBV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21001.D M3W821.M Fri Feb 25 10:21:15 2011 MS3W

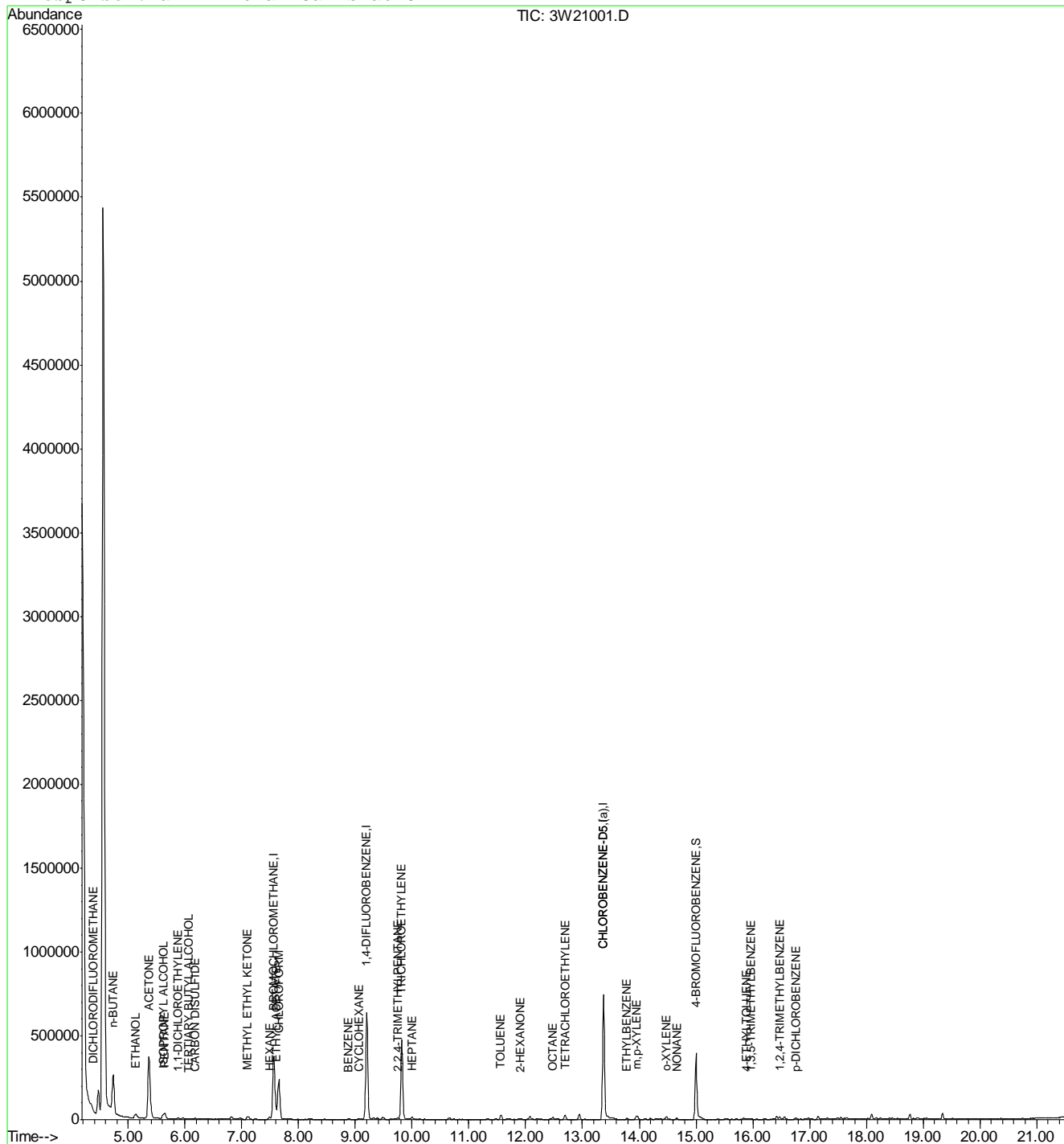
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21001.D
Acq On : 25 Feb 2011 5:33 am
Sample : ja68565-2
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 10:18 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



3W21001.D M3W821.M

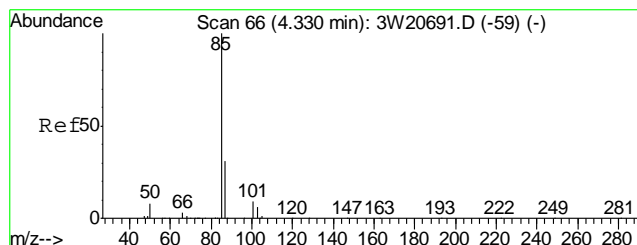
Fri Feb 25 10:21:15 2011

MS 3W

Page 2

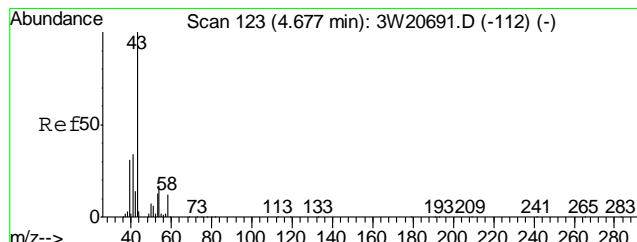
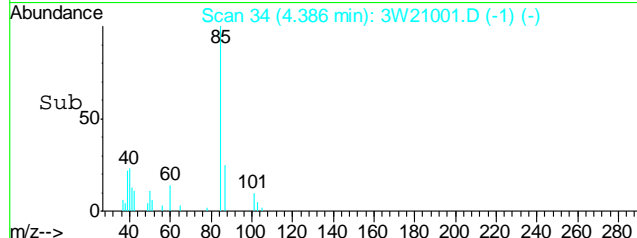
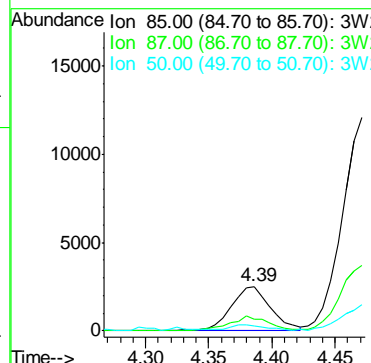
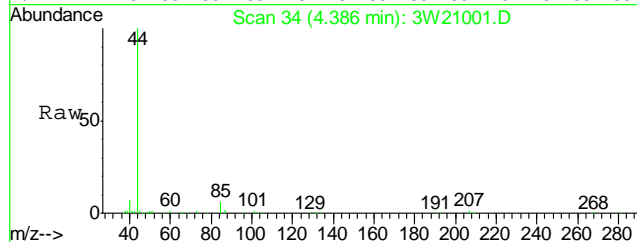
6.1.3





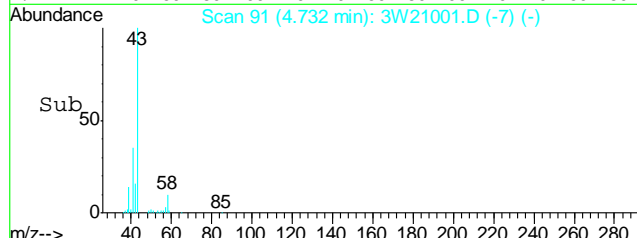
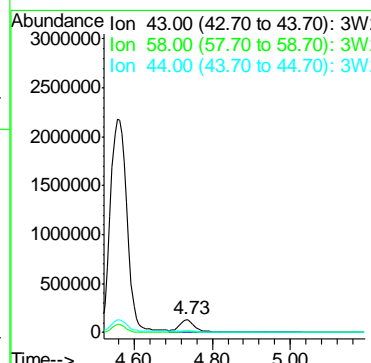
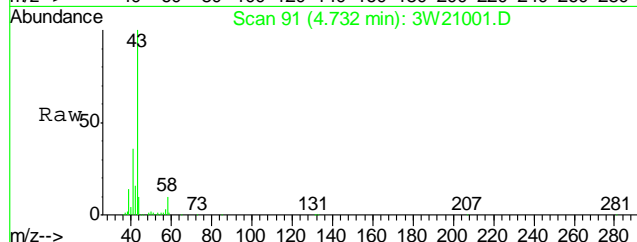
#5
 DICHLORODIFLUOROMETHANE
 Concen: 0.13 PPBV
 RT: 4.39 min Scan# 34
 Delta R.T. 0.01 min
 Lab File: 3W21001.D
 Acq: 25 Feb 2011 5:33 am

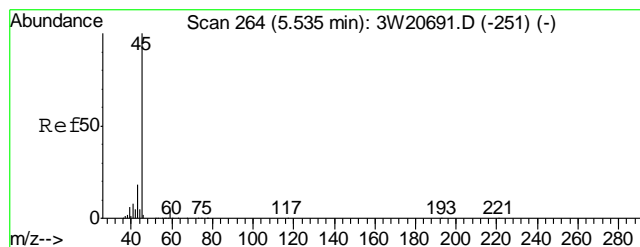
Tgt Ion:	85	Resp:	5458
Ion Ratio	Lower	Upper	
85	100		
87	33.1	12.9	52.9
50	14.2	0.0	30.6



#11
 n-BUTANE
 Concen: 15.02 PPBV
 RT: 4.73 min Scan# 91
 Delta R.T. 0.01 min
 Lab File: 3W21001.D
 Acq: 25 Feb 2011 5:33 am

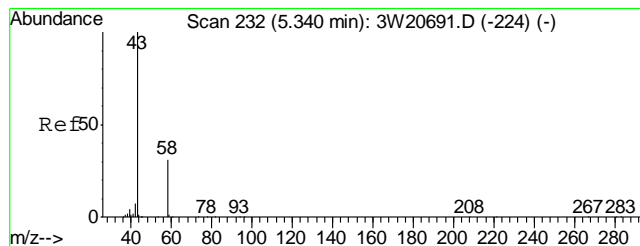
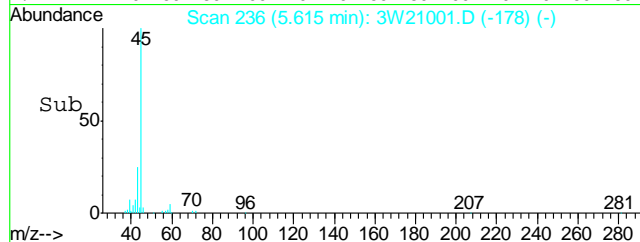
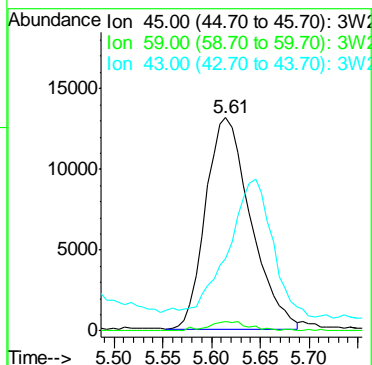
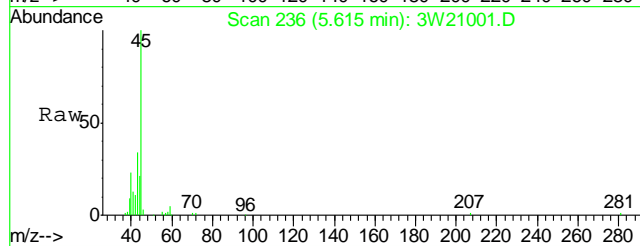
Tgt Ion:	43	Resp:	407156
Ion Ratio	Lower	Upper	
43	100		
58	8.3	0.0	32.1
44	10.5	0.0	23.9





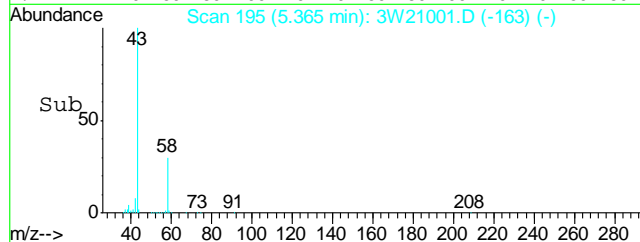
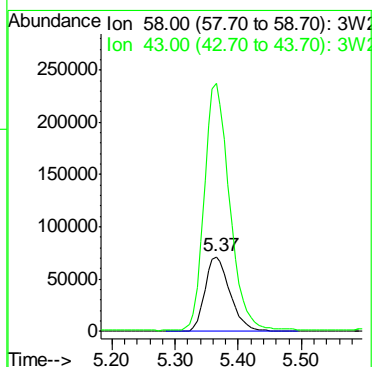
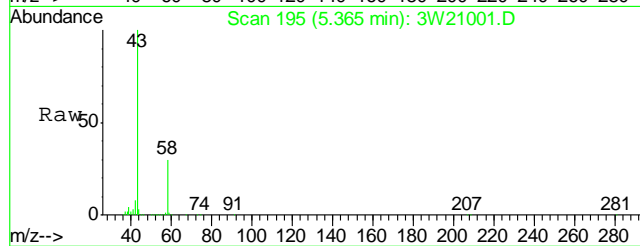
#17
ISOPROPYL ALCOHOL
Concen: 1.84 PPBV
RT: 5.61 min Scan# 236
Delta R.T. 0.05 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

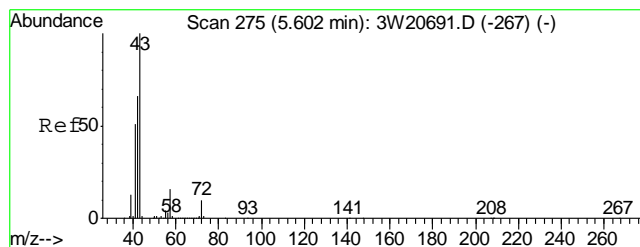
Tgt Ion:	45	Resp:	42027
Ion Ratio	Lower	Upper	
45	100		
59	4.5	0.0	23.7
43	33.8	0.0	37.4



#18
ACETONE
Concen: 35.95 PPBV
RT: 5.37 min Scan# 195
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

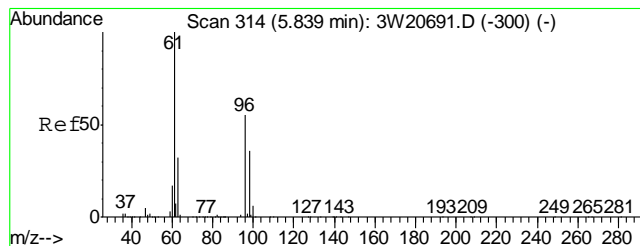
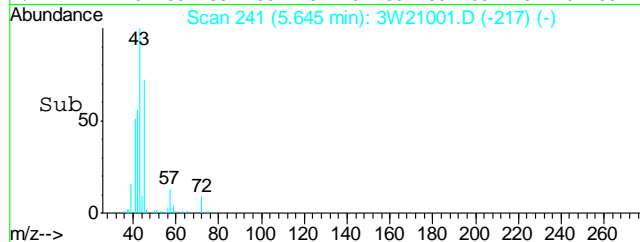
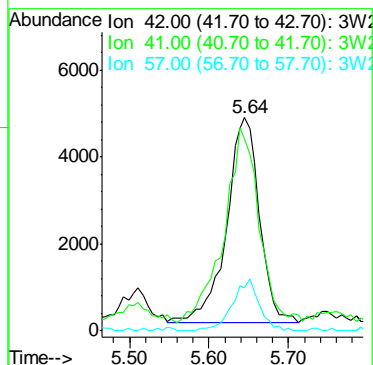
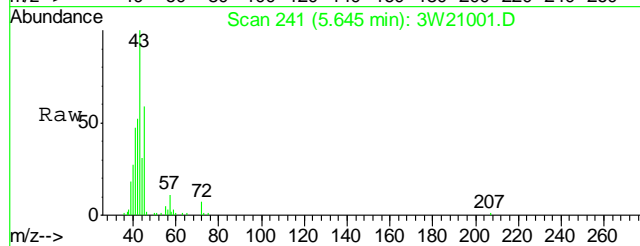
Tgt Ion:	58	Resp:	198687
Ion Ratio	Lower	Upper	
58	100		
43	331.8	289.1	329.1#





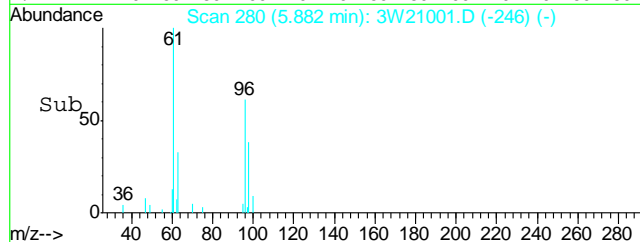
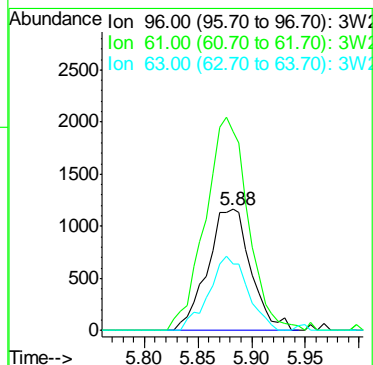
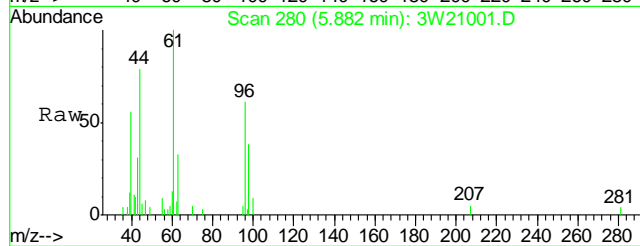
#19
PENTANE
Concen: 0.72 PPBV
RT: 5.64 min Scan# 241
Delta R.T. 0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

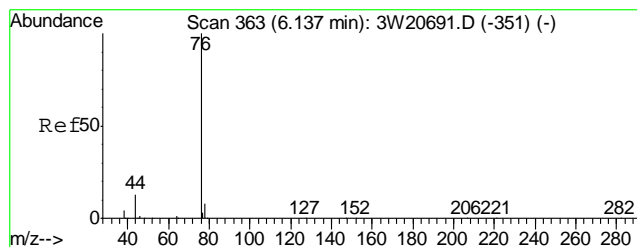
Tgt Ion	Ratio	Lower	Upper
42	100		
41	101.4	65.1	105.1
57	20.8	5.2	45.2



#22
1,1-DICHLOROETHYLENE
Concen: 0.20 PPBV
RT: 5.88 min Scan# 280
Delta R.T. 0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

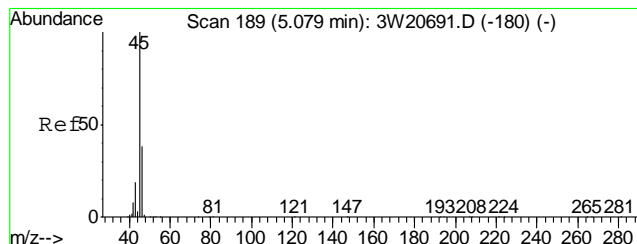
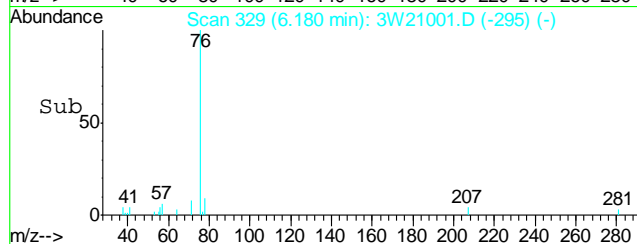
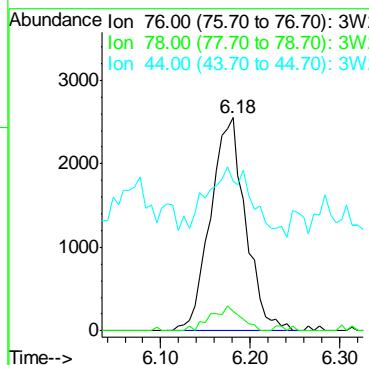
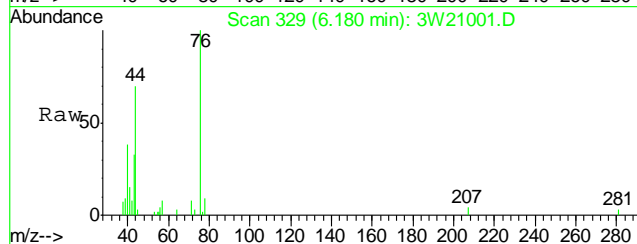
Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.0	137.7	177.7
63	54.9	31.6	71.6





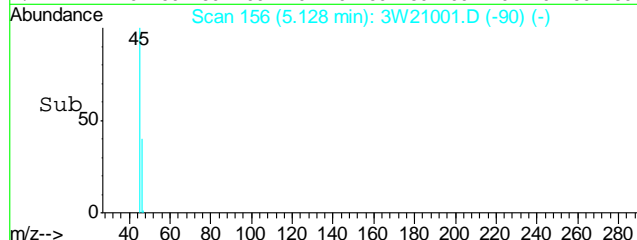
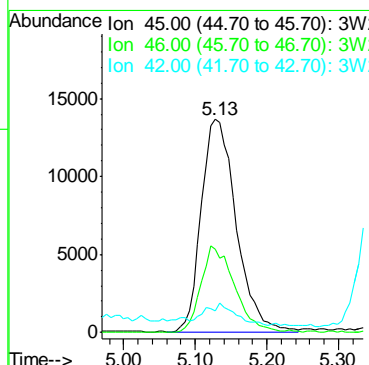
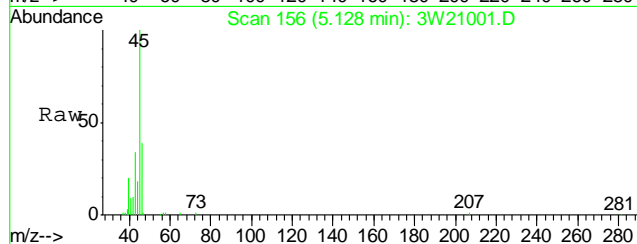
#23
CARBON DISULFIDE
Concen: 0.14 PPBV
RT: 6.18 min Scan# 329
Delta R.T. 0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

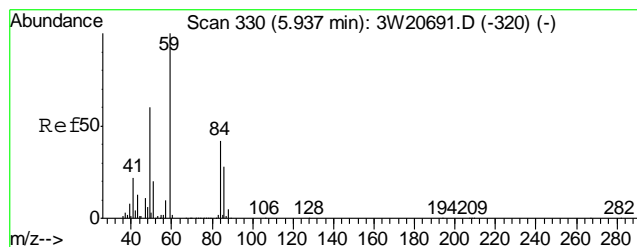
Tgt Ion:	76	Resp:	6943
Ion Ratio	Lower	Upper	
76	100		
78	9.9	0.0	30.5
44	43.9	0.0	31.7#



#24
ETHANOL
Concen: 8.15 PPBV
RT: 5.13 min Scan# 156
Delta R.T. 0.02 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

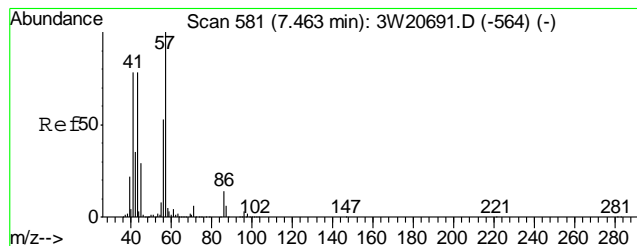
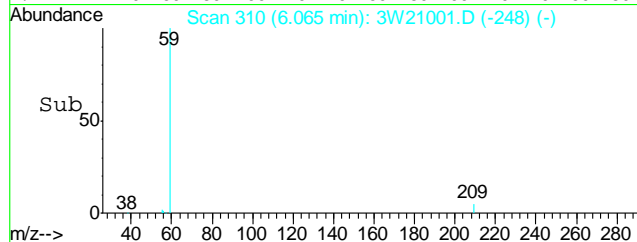
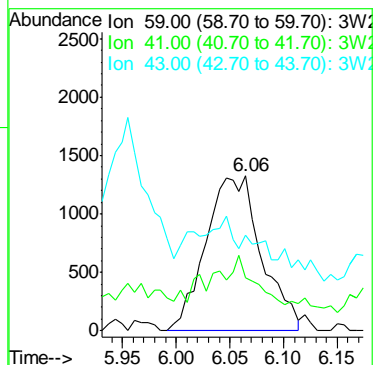
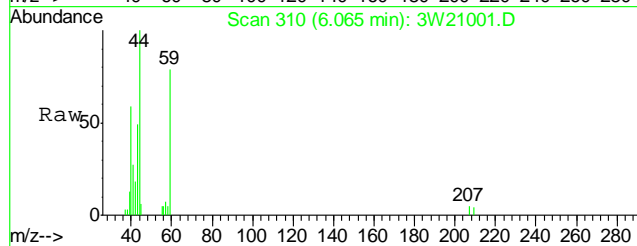
Tgt Ion:	45	Resp:	46429
Ion Ratio	Lower	Upper	
45	100		
46	38.7	18.2	58.2
42	8.7	0.0	27.7





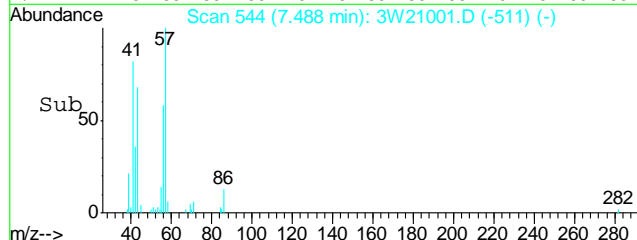
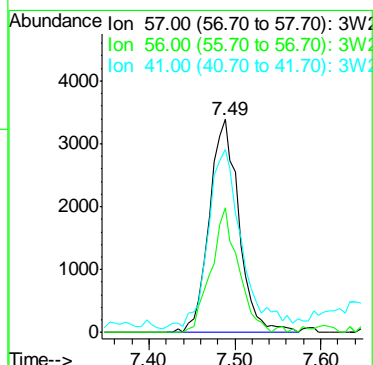
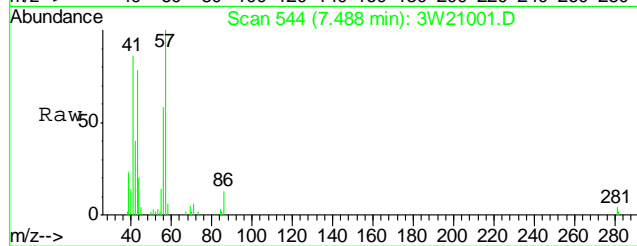
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.18 PPBV
RT: 6.06 min Scan# 310
Delta R.T. 0.07 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

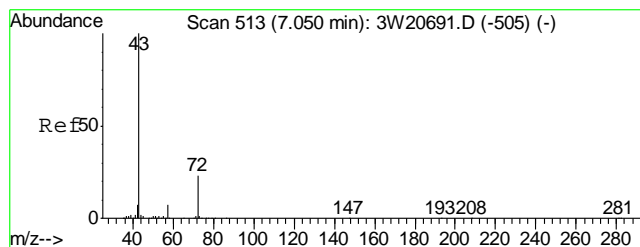
Tgt Ion	Resp	Lower	Upper
59	100		
41	19.8	0.0	38.0
43	6.4	0.0	33.0



#33
HEXANE
Concen: 0.32 PPBV
RT: 7.49 min Scan# 544
Delta R.T. -0.00 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

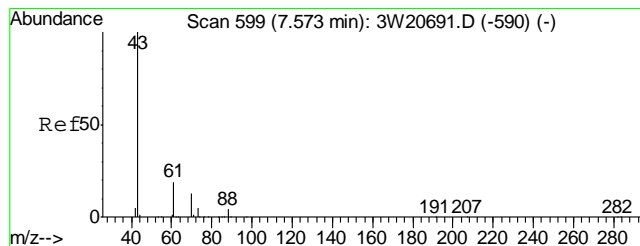
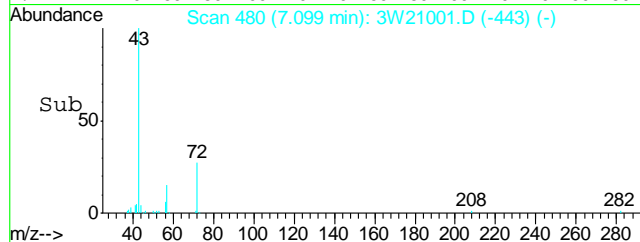
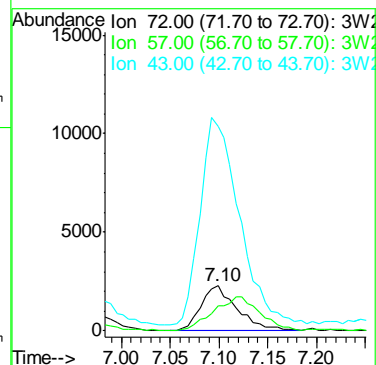
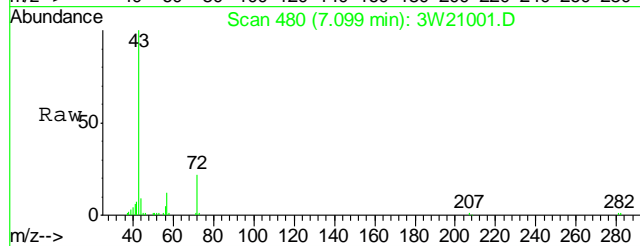
Tgt Ion	Resp	Lower	Upper
57	100		
56	53.8	30.5	70.5
41	96.8	79.2	119.2





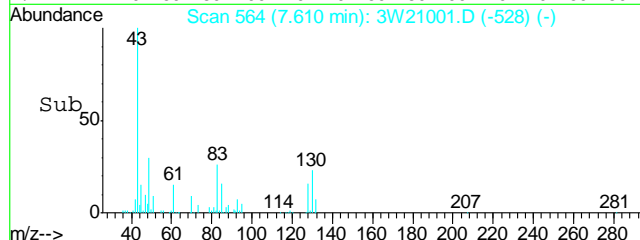
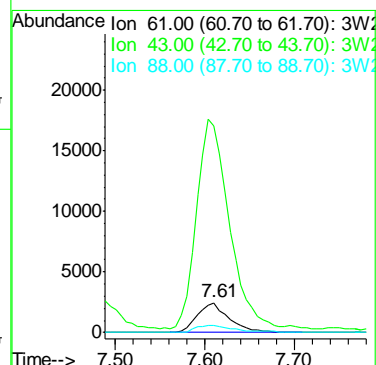
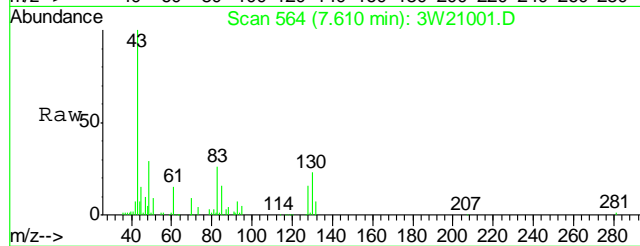
#36
METHYL ETHYL KETONE
Concen: 1.14 PPBV
RT: 7.10 min Scan# 480
Delta R.T. 0.02 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

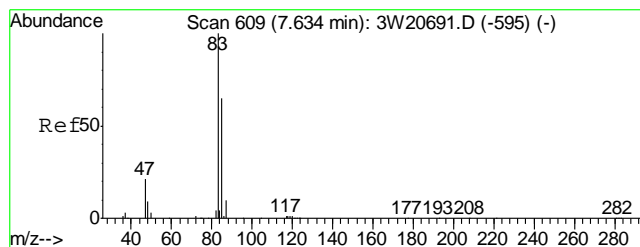
Tgt Ion	Ratio	Lower	Upper
72	100		
57	54.6	11.3	51.3#
43	453.7	384.1	424.1#



#39
ETHYL ACETATE
Concen: 1.63 PPBV
RT: 7.61 min Scan# 564
Delta R.T. 0.02 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

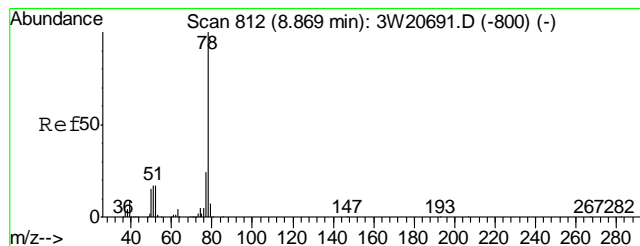
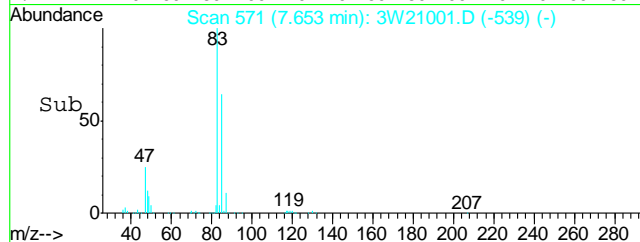
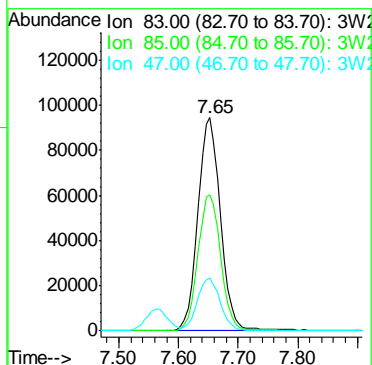
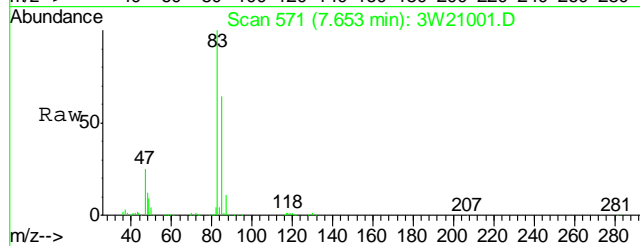
Tgt Ion	Ratio	Lower	Upper
61	100		
43	756.8	682.3	722.3#
88	31.8	6.1	46.1





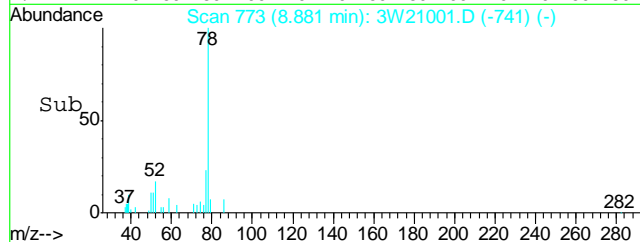
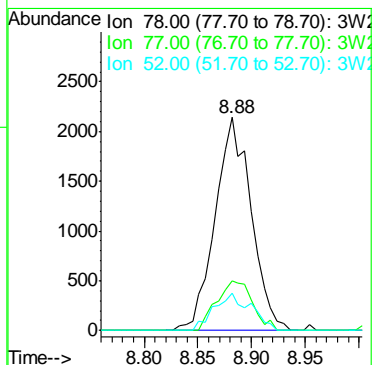
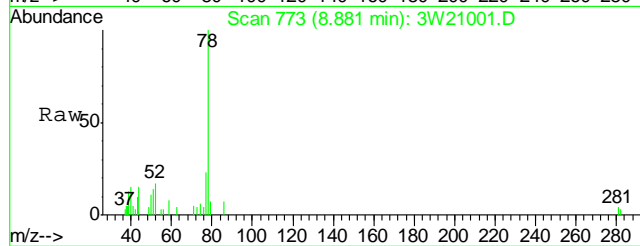
#40
CHLOROFORM
Concen: 8.63 PPBV
RT: 7.65 min Scan# 571
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

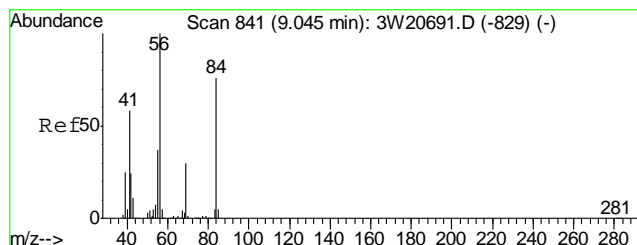
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	44.4	84.4
47	25.2	1.8	41.8



#46
BENZENE
Concen: 0.12 PPBV
RT: 8.88 min Scan# 773
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

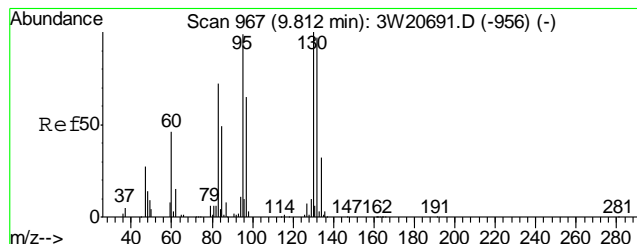
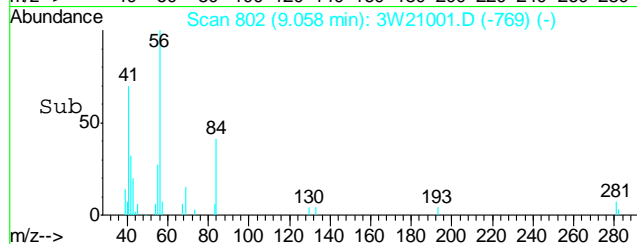
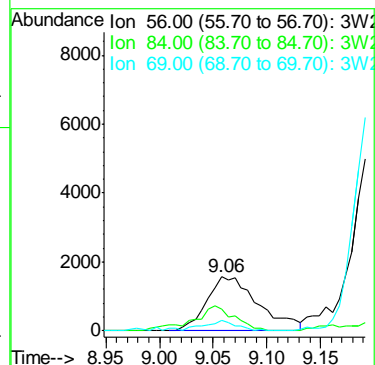
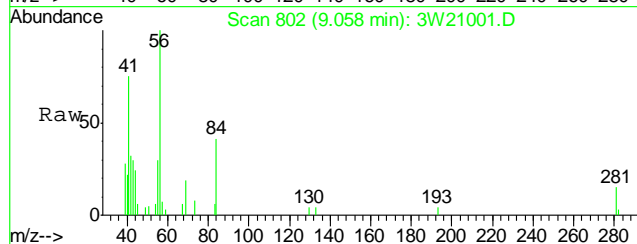
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	3.6	43.6
52	17.8	0.0	35.5





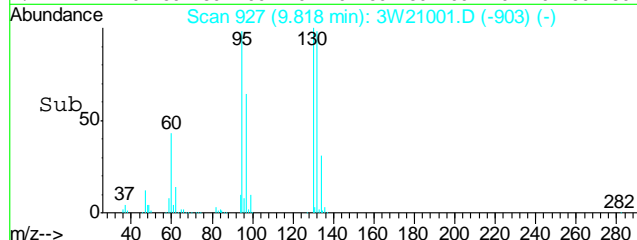
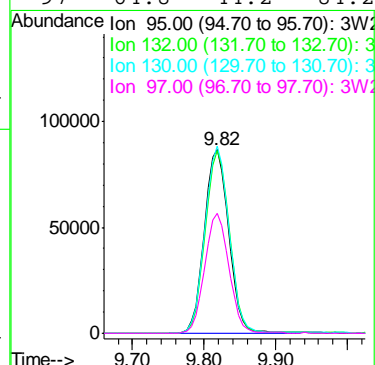
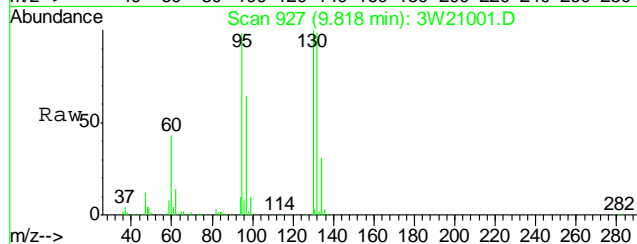
#47
CYCLOHEXANE
Concen: 0.20 PPBV
RT: 9.06 min Scan# 802
Delta R.T. -0.00 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

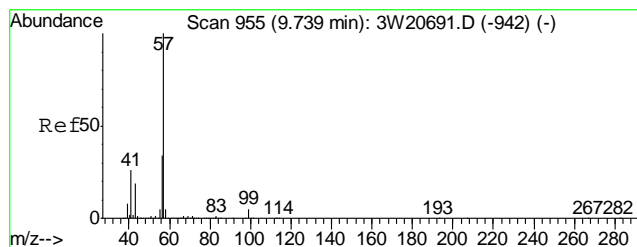
Tgt Ion	Resp	Lower	Upper
56	100		
84	37.1	80.5	120.5#
69	13.0	10.4	50.4



#49
TRICHLOROETHYLENE
Concen: 10.26 PPBV
RT: 9.82 min Scan# 927
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

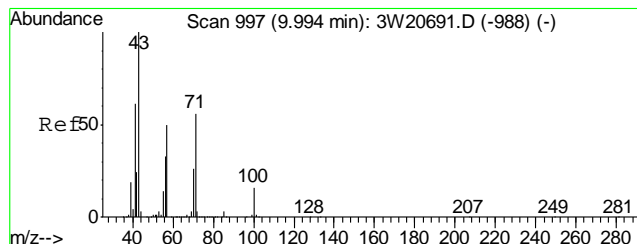
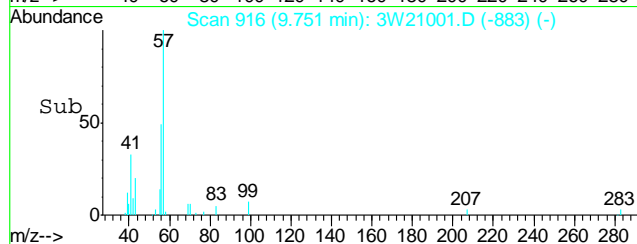
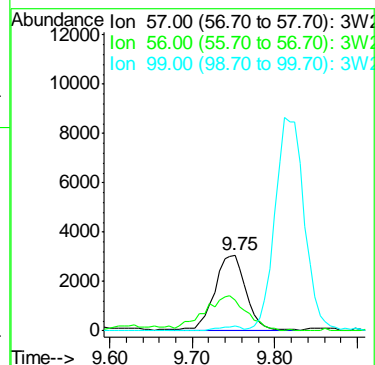
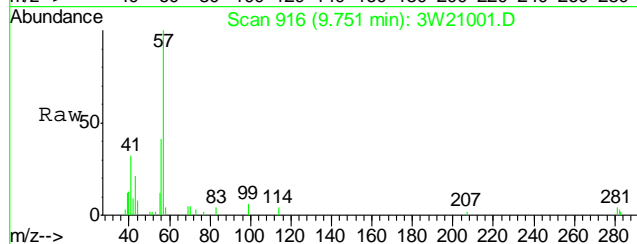
Tgt Ion	Resp	Lower	Upper
95	100		
132	98.9	83.4	123.4
130	101.5	87.1	127.1
97	64.8	44.2	84.2





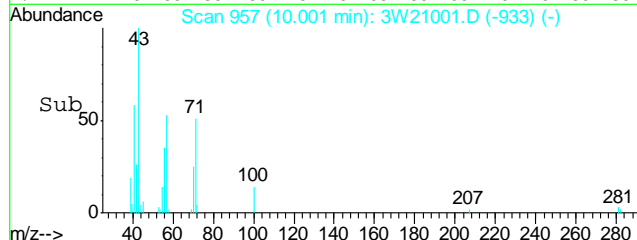
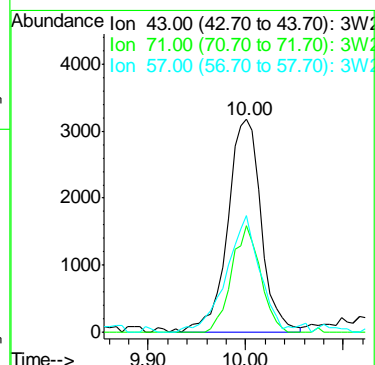
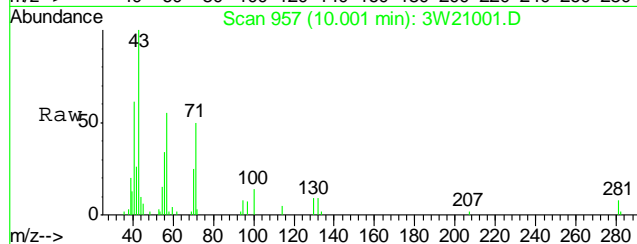
#52
2,2,4-TRIMETHYLPENTANE
Concen: 0.12 PPBV
RT: 9.75 min Scan# 916
Delta R.T. -0.00 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

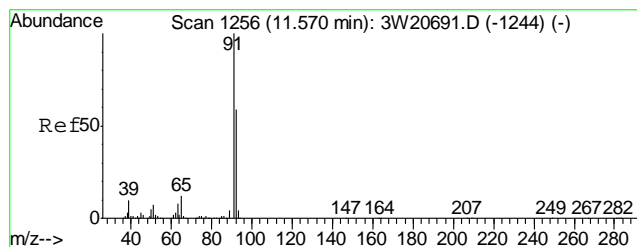
Tgt Ion	Ratio	Lower	Upper
57	100		
56	63.0	13.2	53.2#
99	4.2	0.0	25.2



#54
HEPTANE
Concen: 0.27 PPBV
RT: 10.00 min Scan# 957
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

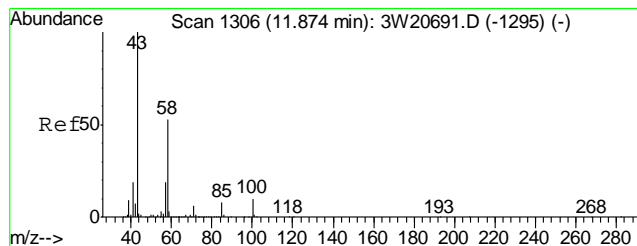
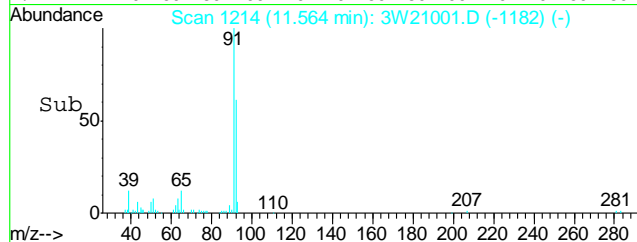
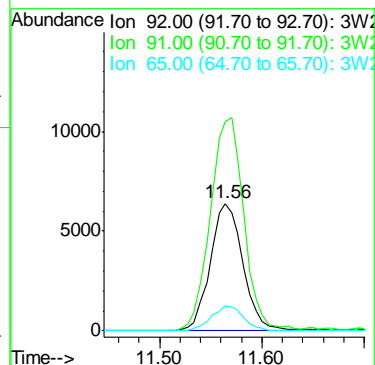
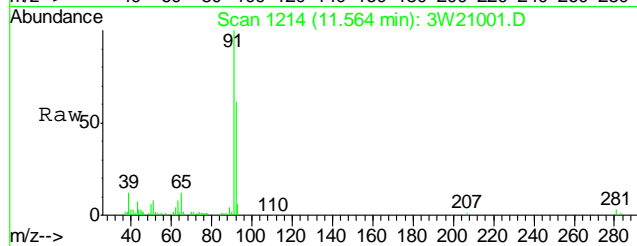
Tgt Ion	Ratio	Lower	Upper
43	100		
71	42.9	36.1	76.1
57	55.4	32.3	72.3





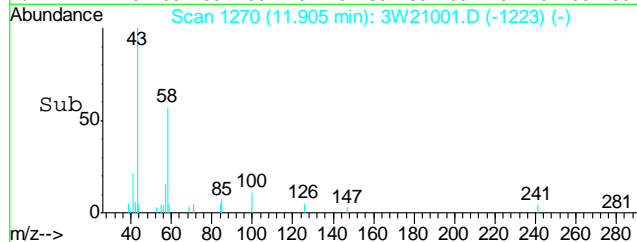
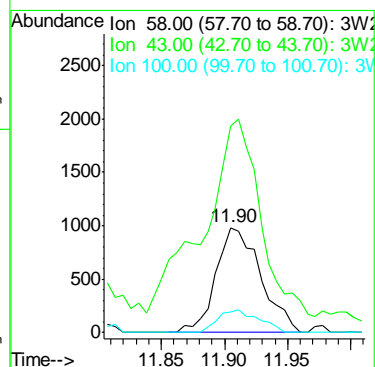
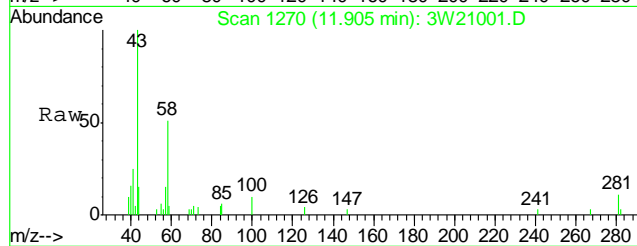
#59
TOLUENE
Concen: 0.55 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

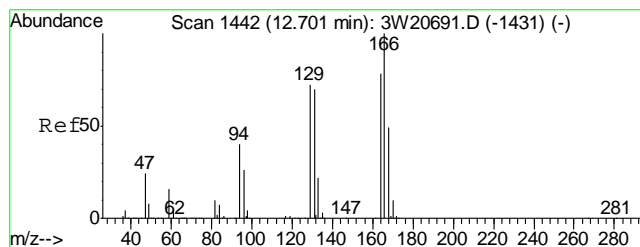
Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.1	148.6	188.6
65	19.1	0.0	38.0



#63
2-HEXANONE
Concen: 0.22 PPBV
RT: 11.90 min Scan# 1270
Delta R.T. 0.04 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

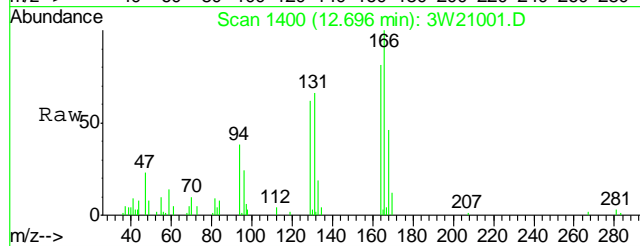
Tgt Ion	Ratio	Lower	Upper
58	100		
43	247.0	166.4	206.4#
100	19.8	0.0	39.6





#64
TETRACHLOROETHYLENE
Concen: 0.35 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

Tgt Ion	Ratio	Lower	Upper
164	100		
129	82.6	65.6	105.6
168	58.6	42.3	82.3
131	81.1	63.0	103.0



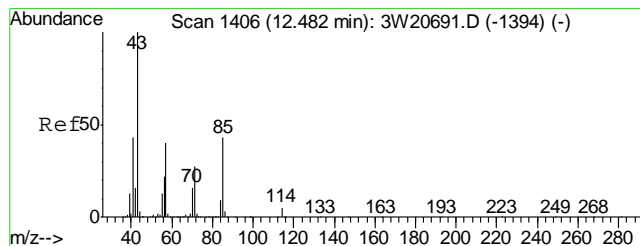
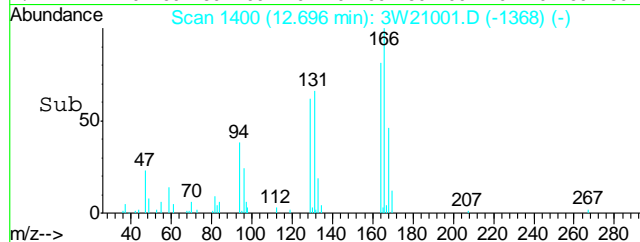
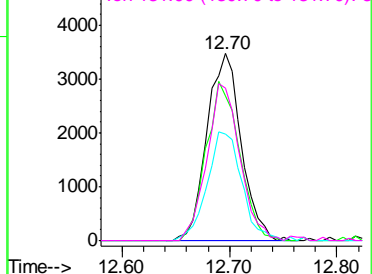
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

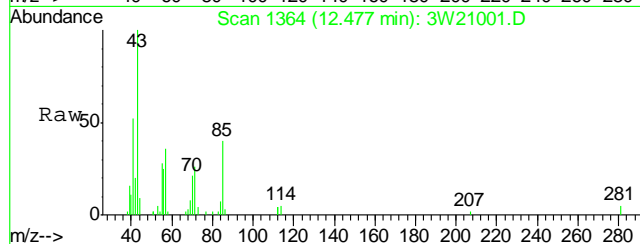
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#67
OCTANE
Concen: 0.20 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

Tgt Ion	Ratio	Lower	Upper
43	100		
85	33.0	24.9	64.9
57	35.9	19.9	59.9

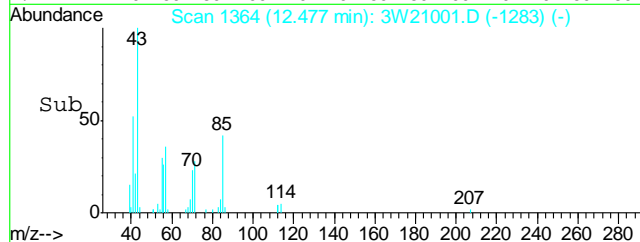
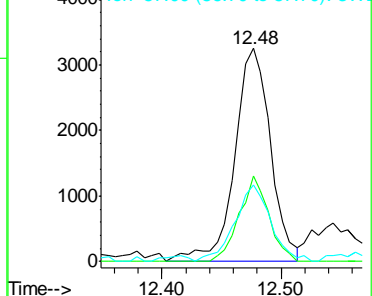


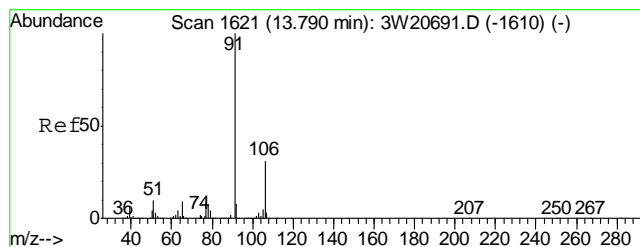
Abundance

Ion 43.00 (42.70 to 43.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

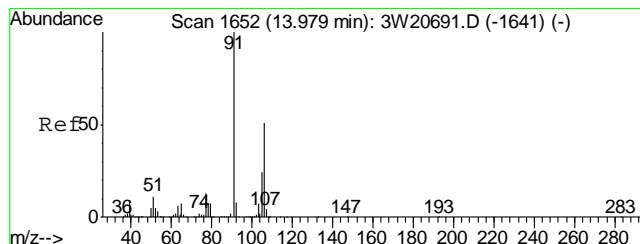
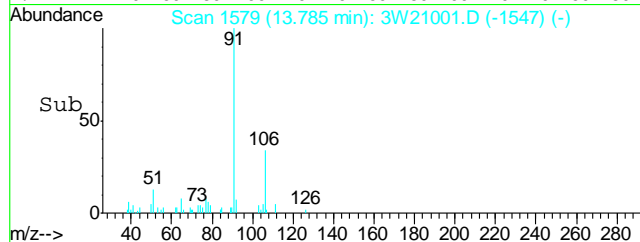
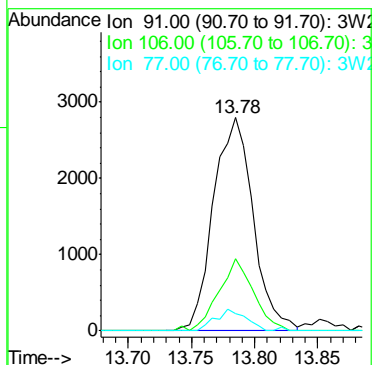
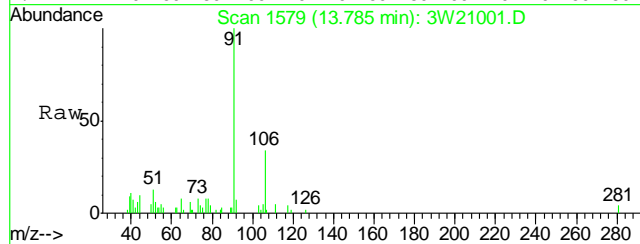
Ion 57.00 (56.70 to 57.70): 3W2





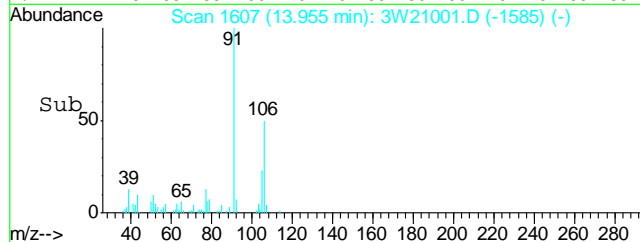
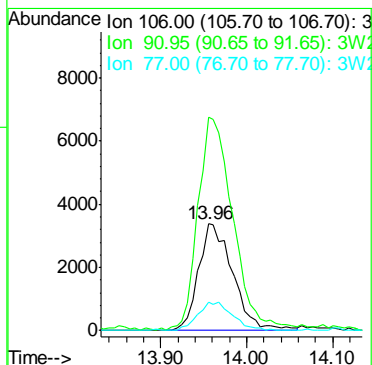
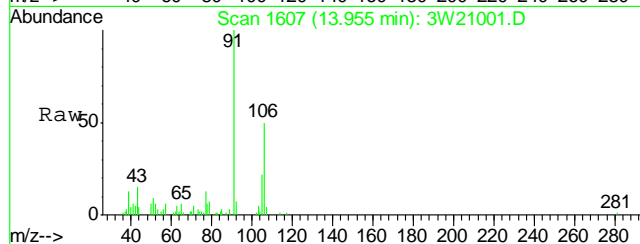
#70
ETHYLBENZENE
Concen: 0.12 PPBV
RT: 13.78 min Scan# 1579
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

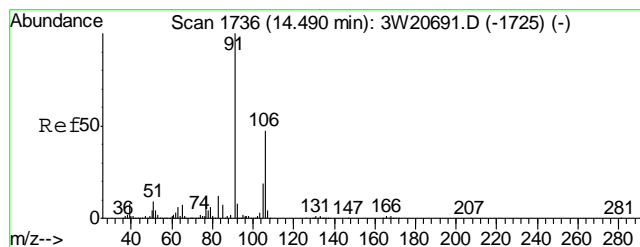
Tgt Ion:	91	Resp:	6082
Ion Ratio	Lower	Upper	
91	100		
106	29.7	11.5	51.5
77	7.8	0.0	28.4



#71
m,p-XYLENE
Concen: 0.51 PPBV
RT: 13.96 min Scan# 1607
Delta R.T. -0.02 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

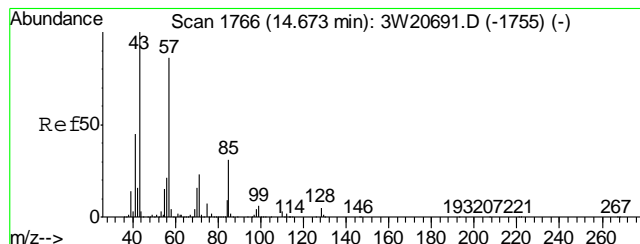
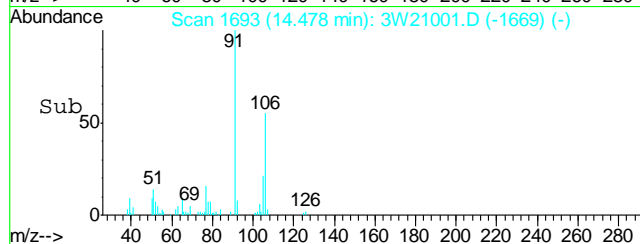
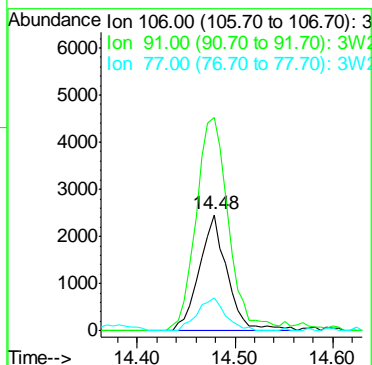
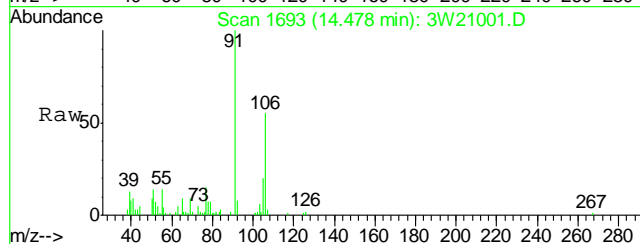
Tgt Ion:	106	Resp:	9374
Ion Ratio	Lower	Upper	
106	100		
91	199.7	176.1	216.1
77	26.5	4.4	44.4





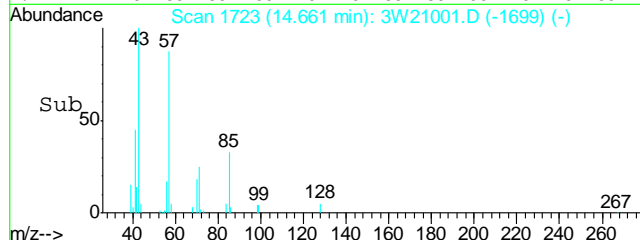
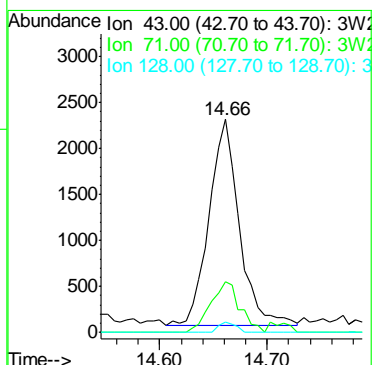
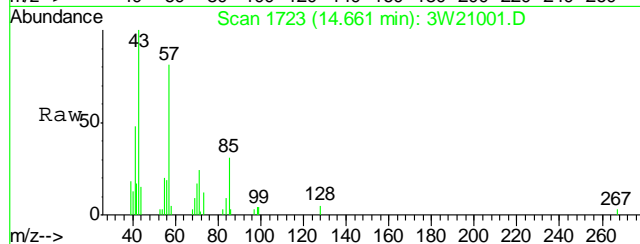
#72
o-XYLENE
Concen: 0.28 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

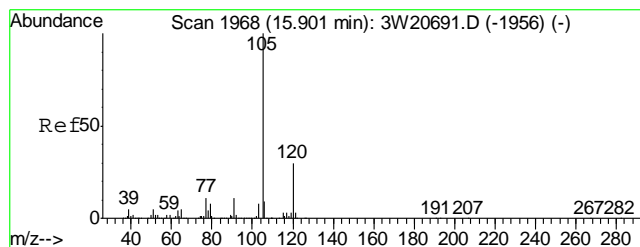
Tgt Ion	Ratio	Lower	Upper
106	100		
91	212.6	186.8	226.8
77	28.2	3.9	43.9



#74
NONANE
Concen: 0.15 PPBV
RT: 14.66 min Scan# 1723
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

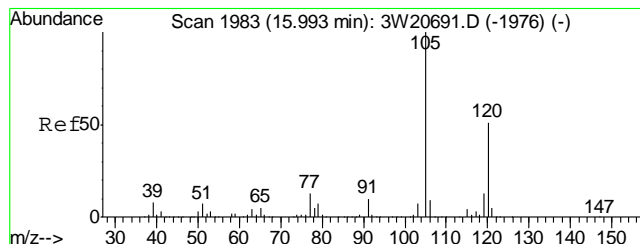
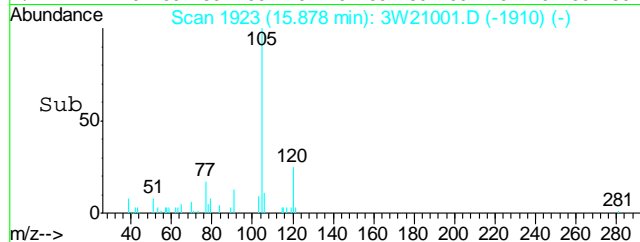
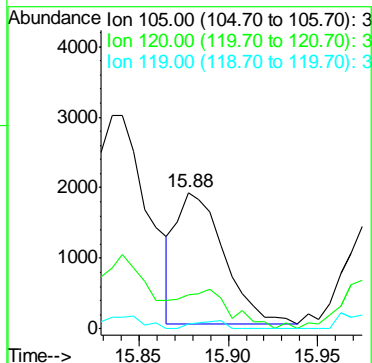
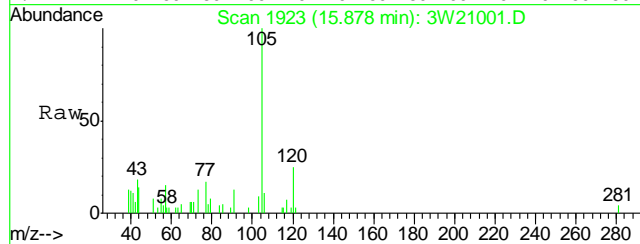
Tgt Ion	Ratio	Lower	Upper
43	100		
71	23.8	4.4	44.4
128	2.9	0.0	26.2





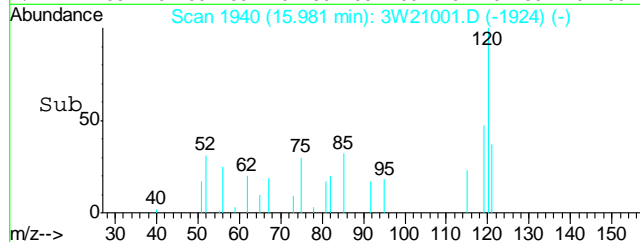
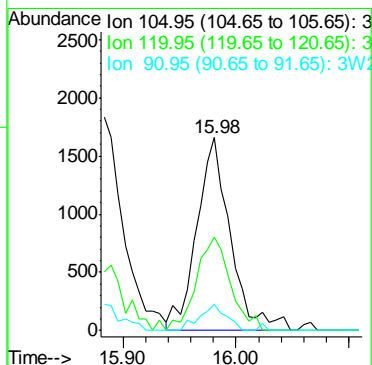
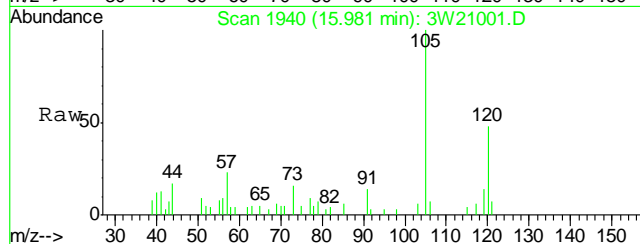
#82
4-ETHYLTOLUENE
Concen: 0.10 PPBV
RT: 15.88 min Scan# 1923
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

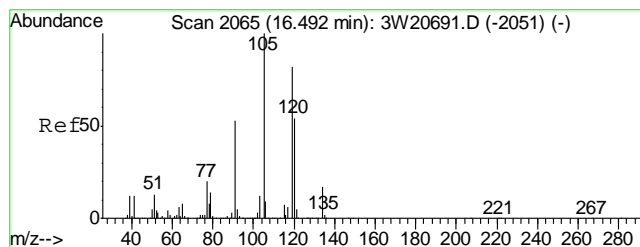
Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.1	10.0	50.0
119	4.0	0.0	22.6



#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.11 PPBV
RT: 15.98 min Scan# 1940
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

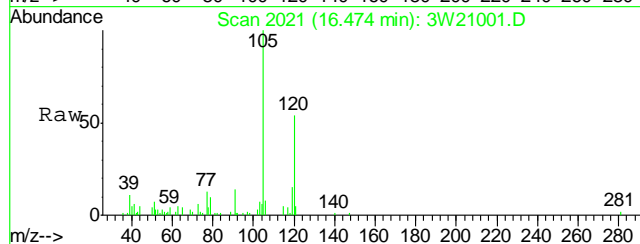
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.8	31.4	71.4
91	10.6	0.0	29.6





#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.42 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	39.2	79.2
119	15.4	104.5	144.5#

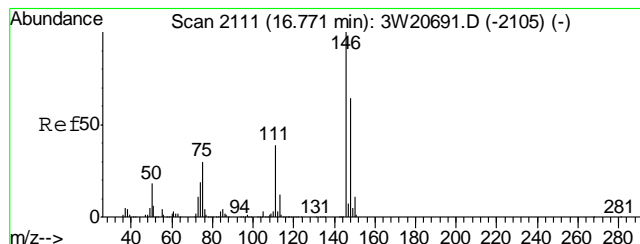
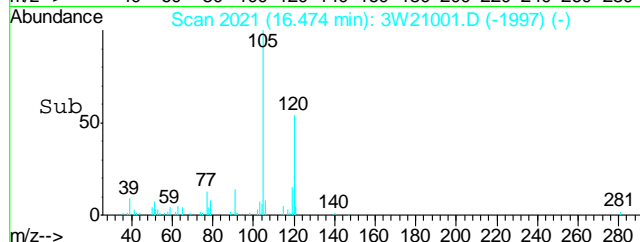
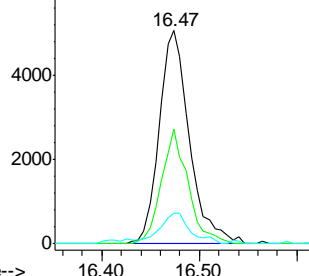


Abundance

Ion 105.00 (104.70 to 105.70): 3

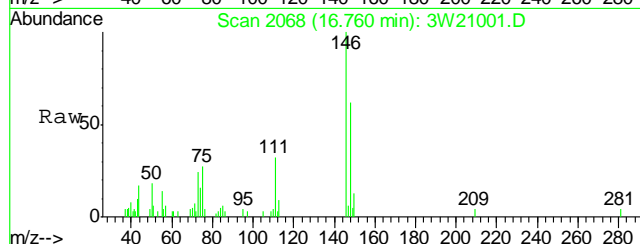
Ion 120.00 (119.70 to 120.70): 3

Ion 119.00 (118.70 to 119.70): 3



#88
p-DICHLOROBENZENE
Concen: 0.32 PPBV
RT: 16.76 min Scan# 2068
Delta R.T. -0.01 min
Lab File: 3W21001.D
Acq: 25 Feb 2011 5:33 am

Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.9	44.2	84.2
111	37.2	14.5	54.5

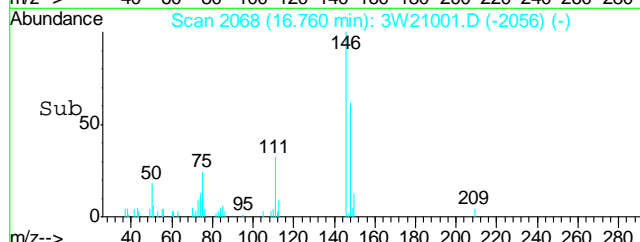
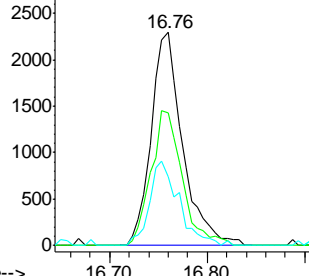


Abundance

Ion 146.00 (145.70 to 146.70): 3

Ion 148.00 (147.70 to 148.70): 3

Ion 111.00 (110.70 to 111.70): 3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20984.D Vial: 1
 Acq On : 24 Feb 2011 5:38 pm Operator: yunxiac
 Sample : ja68565-3 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:10:43 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	154395	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	748240	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	345836	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	346279	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 200754 5.46 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 109.20%

Target Compounds

						Qvalue
5) DICHLORODIFLUOROMETHANE	4.38	85	7423	0.16	PPBV	97
6) PROPYLENE	4.34	41	5038	0.29	PPBV #	84
11) n-BUTANE	4.73	43	11828	0.40	PPBV #	92
17) ISOPROPYL ALCOHOL	5.65	45	22218m	0.88	PPBV	
18) ACETONE	5.37	58	110419	18.11	PPBV #	88
19) PENTANE	5.64	42	5272	0.26	PPBV	82
24) ETHANOL	5.15	45	37540	5.97	PPBV	97
28) FREON 113	6.11	151	3718	0.12	PPBV	98
30) TERTIARY BUTYL ALCOHOL	6.11	59	3988m	0.14	PPBV	
33) HEXANE	7.49	57	3430	0.12	PPBV	98
36) METHYL ETHYL KETONE	7.11	72	2902	0.51	PPBV	91
39) ETHYL ACETATE	7.62	61	3737	0.93	PPBV #	88
49) TRICHLOROETHYLENE	9.81	95	6289	0.29	PPBV	95
54) HEPTANE	10.00	43	6336	0.20	PPBV	92
59) TOLUENE	11.56	92	11839	0.41	PPBV	97
63) 2-HEXANONE	11.94	58	1261	0.10	PPBV	89
64) TETRACHLOROETHYLENE	12.70	164	1290	0.05	PPBV	97
67) OCTANE	12.48	43	7341	0.19	PPBV	90
71) m,p-XYLENE	13.96	106	7804	0.38	PPBV	94
72) o-XYLENE	14.48	106	4467	0.23	PPBV	95
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	6559	0.23	PPBV #	30
88) p-DICHLOROBENZENE	16.75	146	5309	0.30	PPBV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20984.D M3W821.M Fri Feb 25 10:20:13 2011 MS3W

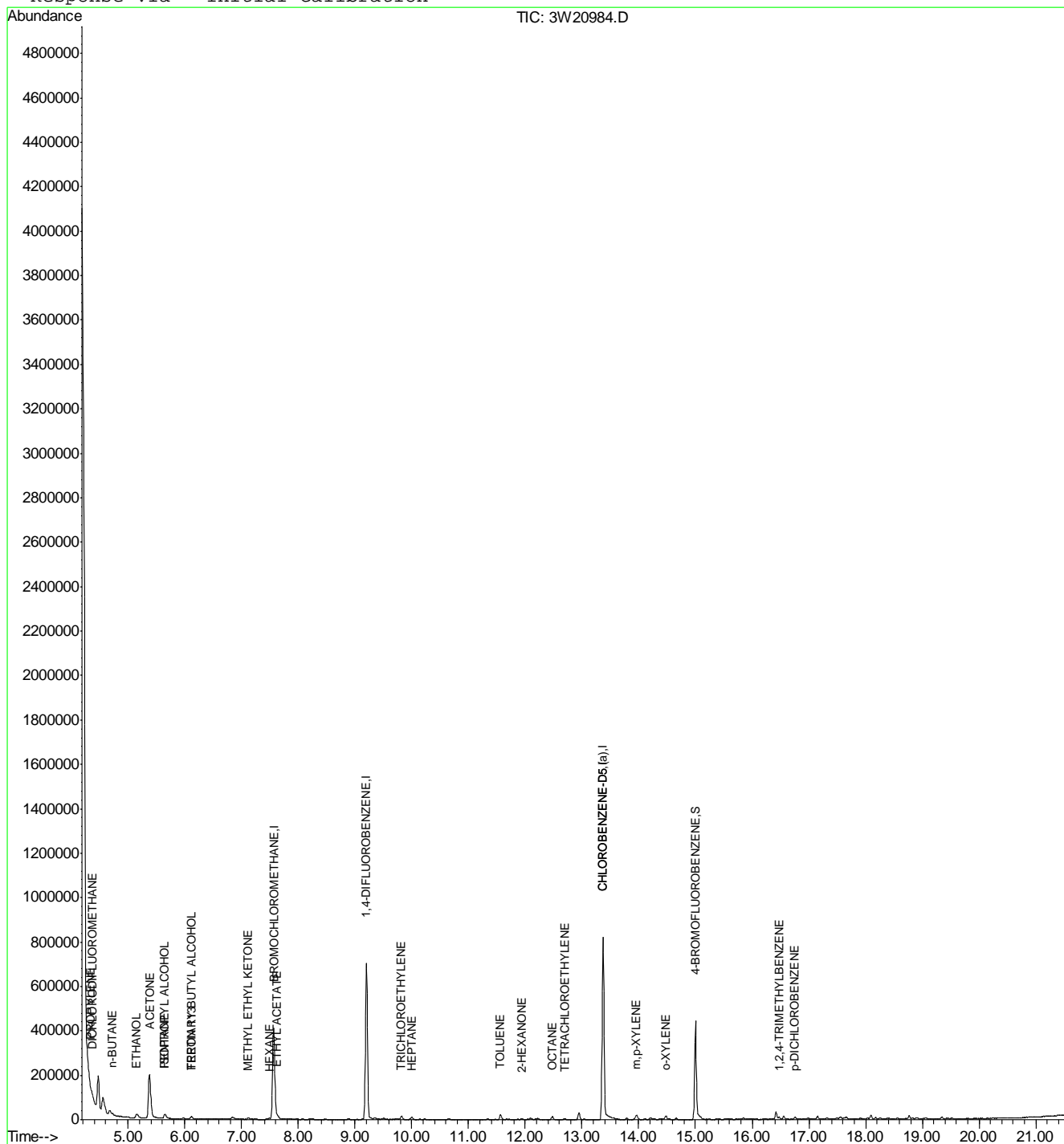
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20984.D
Acq On : 24 Feb 2011 5:38 pm
Sample : ja68565-3
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 8:57 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

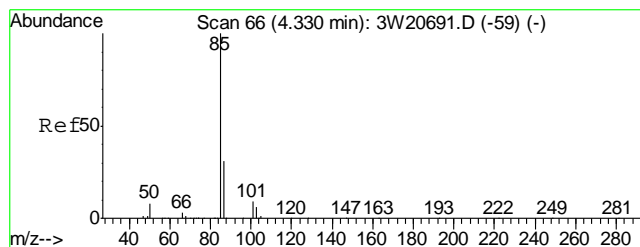


3W20984.D M3W821.M

Fri Feb 25 10:20:13 2011

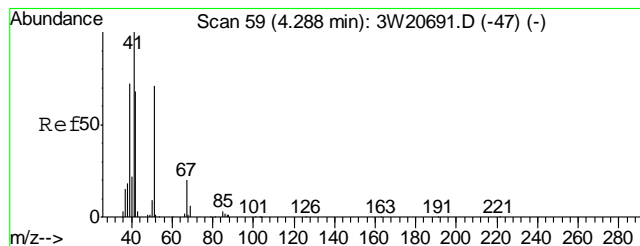
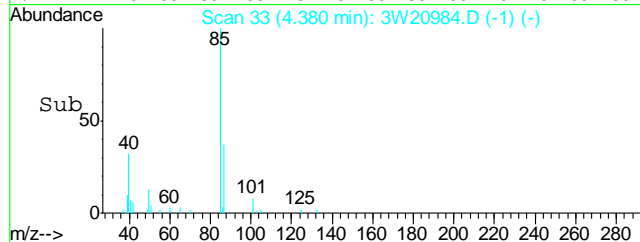
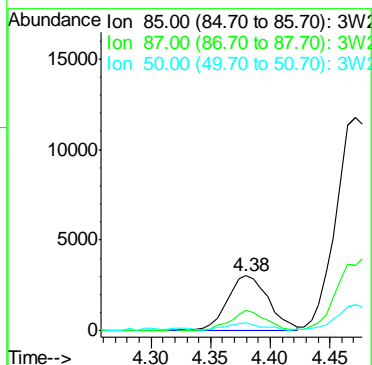
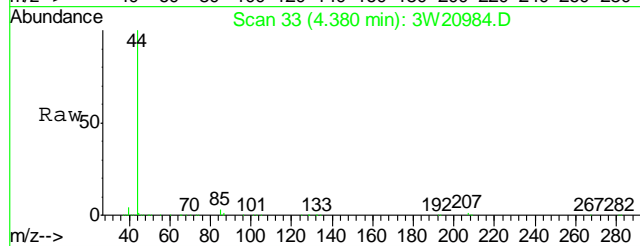
MS 3W

Page 2



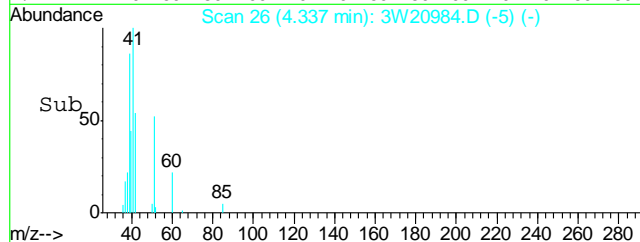
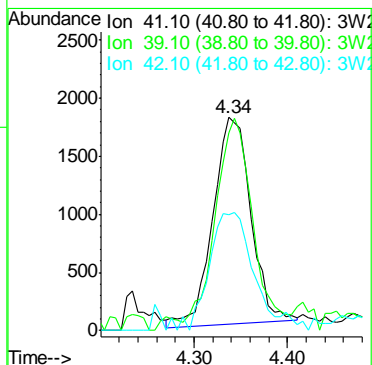
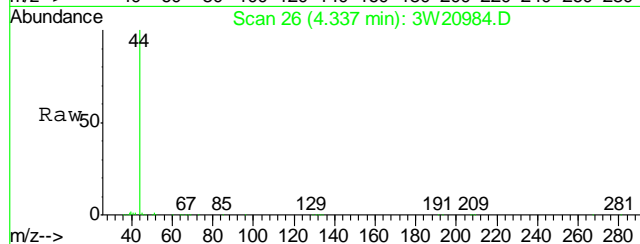
#5
 DICHLORODIFLUOROMETHANE
 Concen: 0.16 PPBV
 RT: 4.38 min Scan# 33
 Delta R.T. 0.01 min
 Lab File: 3W20984.D
 Acq: 24 Feb 2011 5:38 pm

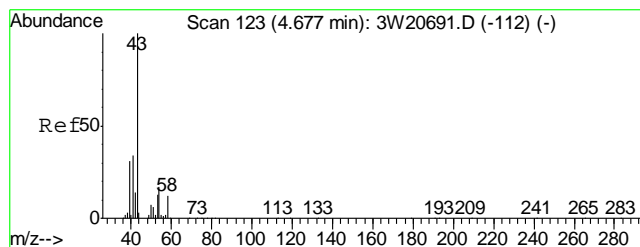
Tgt Ion:	85	Resp:	7423
Ion Ratio	Lower	Upper	
85	100		
87	32.2	12.9	52.9
50	13.2	0.0	30.6



#6
 PROPYLENE
 Concen: 0.29 PPBV
 RT: 4.34 min Scan# 26
 Delta R.T. 0.01 min
 Lab File: 3W20984.D
 Acq: 24 Feb 2011 5:38 pm

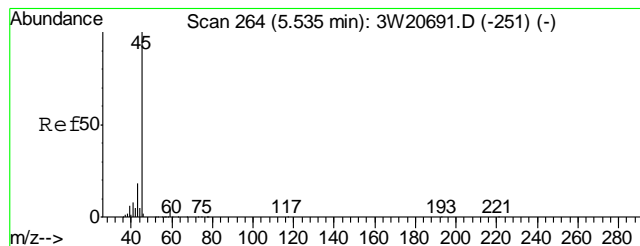
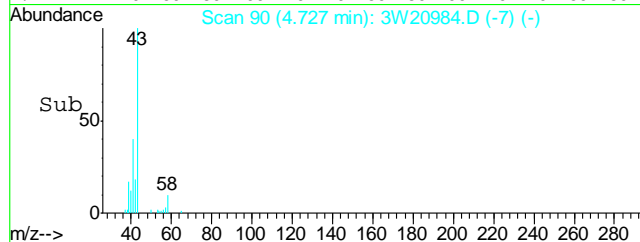
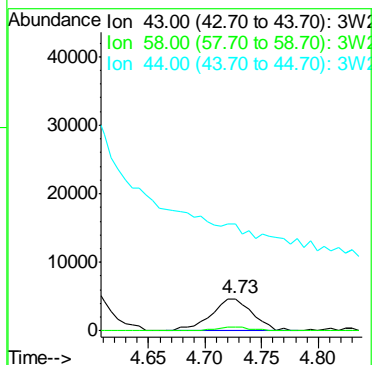
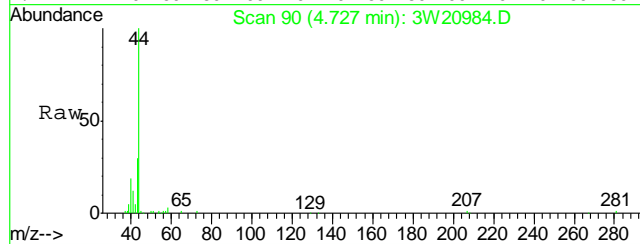
Tgt Ion:	41	Resp:	5038
Ion Ratio	Lower	Upper	
41	100		
39	94.5	50.7	90.7#
42	68.1	46.0	86.0





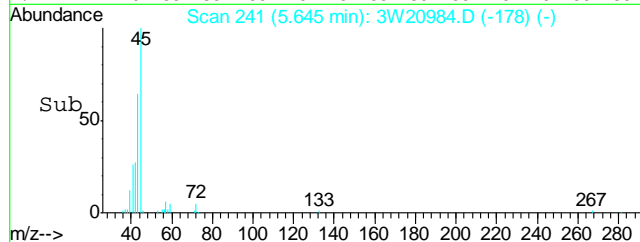
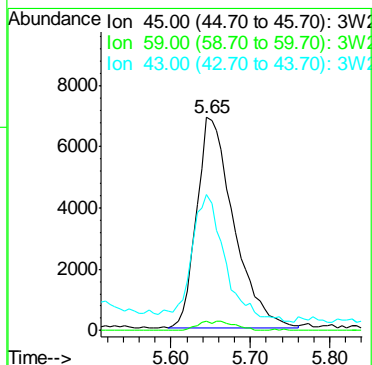
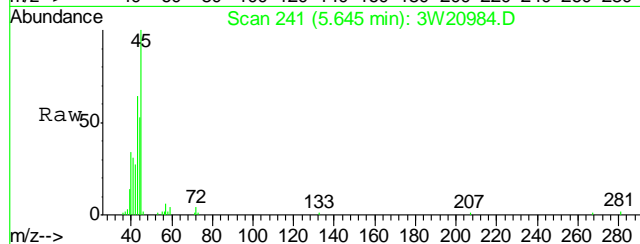
#11
n-BUTANE
Concen: 0.40 PPBV
RT: 4.73 min Scan# 90
Delta R.T. 0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

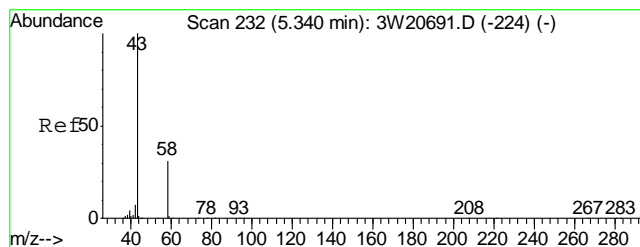
Tgt Ion:	43	Resp:	11828
Ion Ratio	Lower	Upper	
43	100		
58	9.6	0.0	32.1
44	0.0	0.0	23.9



#17
ISOPROPYL ALCOHOL
Concen: 0.88 PPBV m
RT: 5.65 min Scan# 241
Delta R.T. 0.09 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

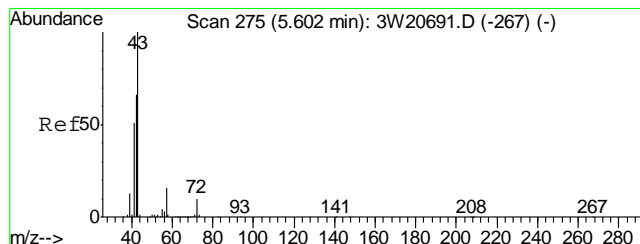
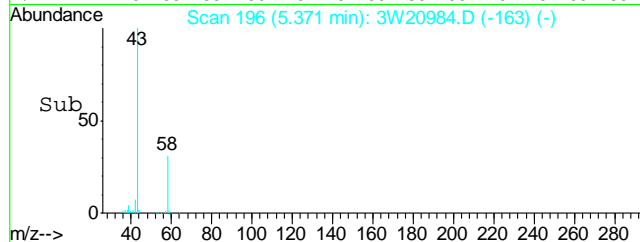
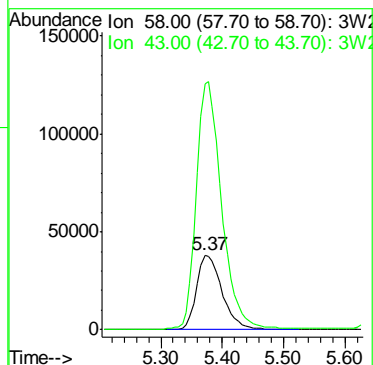
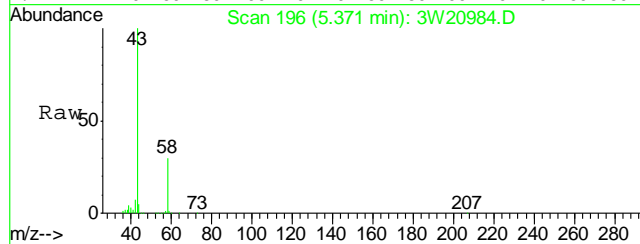
Tgt Ion:	45	Resp:	22218
Ion Ratio	Lower	Upper	
45	100		
59	4.4	0.0	23.7
43	64.0	0.0	37.4#





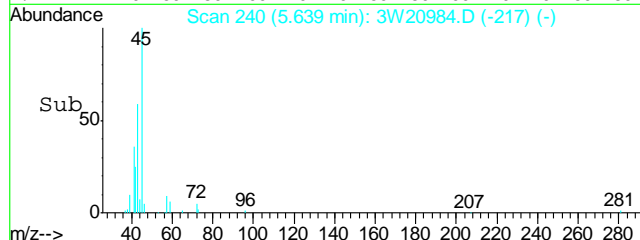
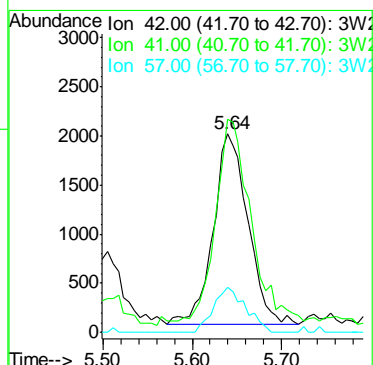
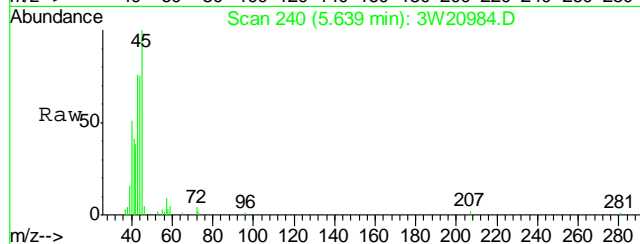
#18
 ACETONE
 Concen: 18.11 PPBV
 RT: 5.37 min Scan# 196
 Delta R.T. 0.00 min
 Lab File: 3W20984.D
 Acq: 24 Feb 2011 5:38 pm

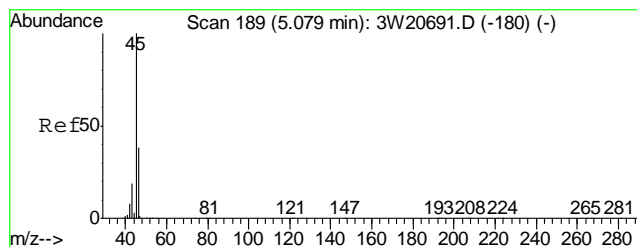
Tgt Ion: 58 Resp: 110419
 Ion Ratio Lower Upper
 58 100
 43 332.4 289.1 329.1#



#19
 PENTANE
 Concen: 0.26 PPBV
 RT: 5.64 min Scan# 240
 Delta R.T. 0.00 min
 Lab File: 3W20984.D
 Acq: 24 Feb 2011 5:38 pm

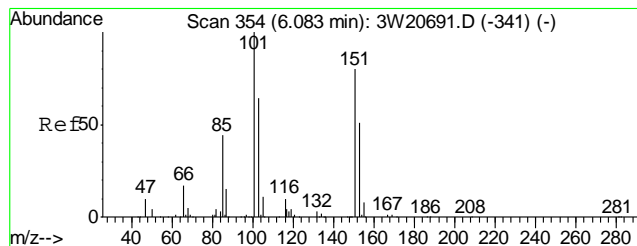
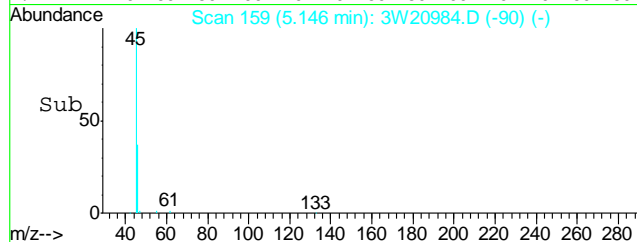
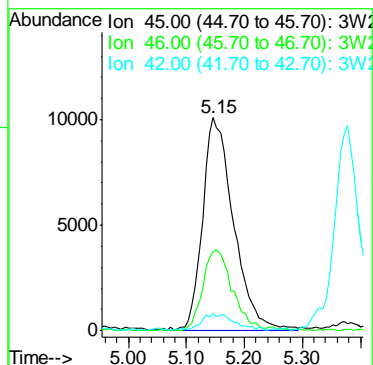
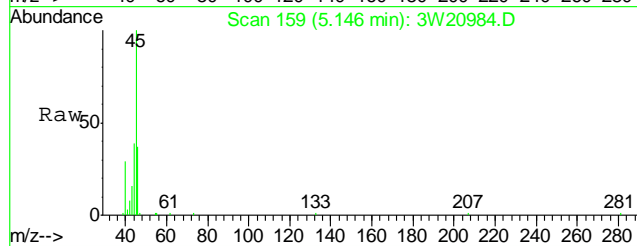
Tgt Ion: 42 Resp: 5272
 Ion Ratio Lower Upper
 42 100
 41 104.9 65.1 105.1
 57 21.9 5.2 45.2





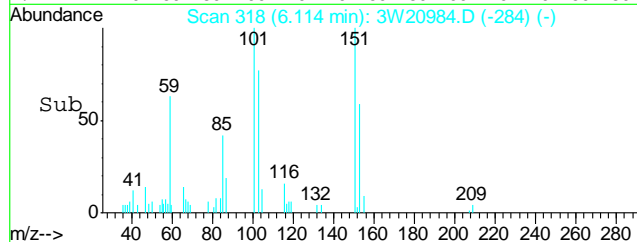
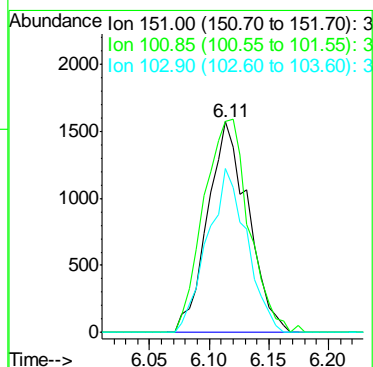
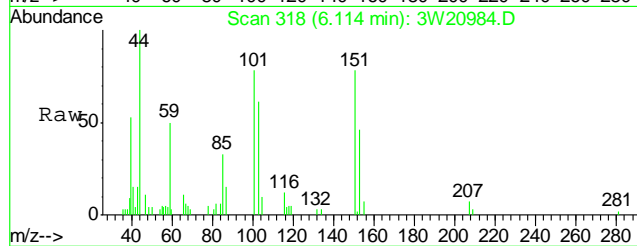
#24
 ETHANOL
 Concen: 5.97 PPBV
 RT: 5.15 min Scan# 159
 Delta R.T. 0.04 min
 Lab File: 3W20984.D
 Acq: 24 Feb 2011 5:38 pm

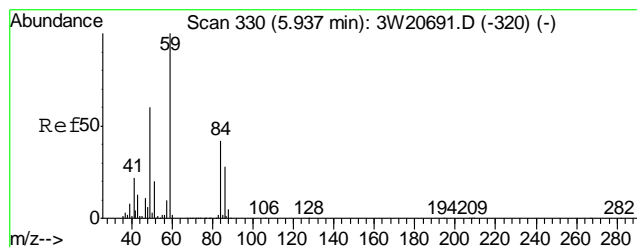
Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.3	18.2	58.2
42	8.4	0.0	27.7



#28
 FREON 113
 Concen: 0.12 PPBV
 RT: 6.11 min Scan# 318
 Delta R.T. -0.00 min
 Lab File: 3W20984.D
 Acq: 24 Feb 2011 5:38 pm

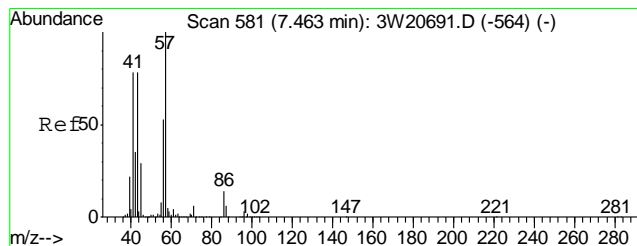
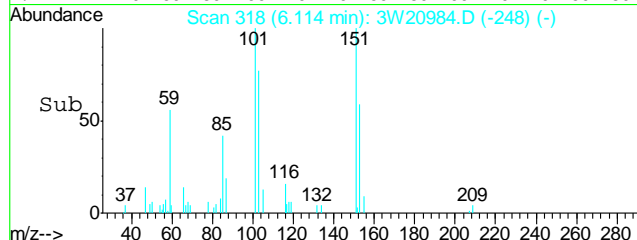
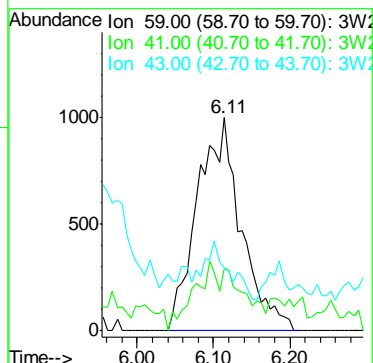
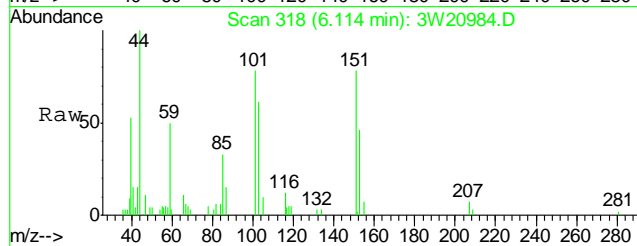
Tgt Ion	Ratio	Lower	Upper
151	100		
101	113.2	95.5	135.5
103	75.8	54.9	94.9





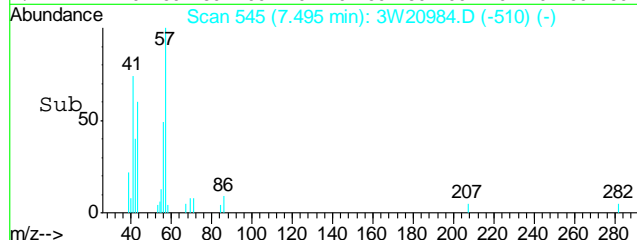
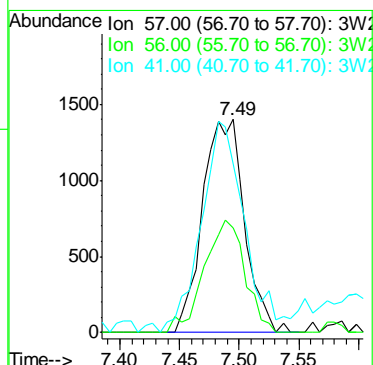
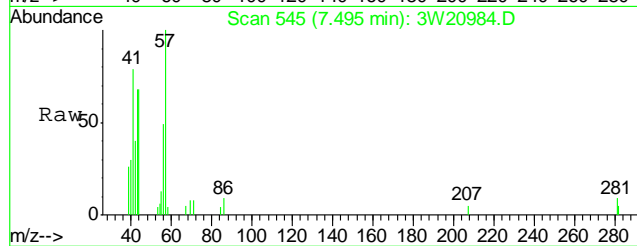
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.14 PPBV m
RT: 6.11 min Scan# 318
Delta R.T. 0.12 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

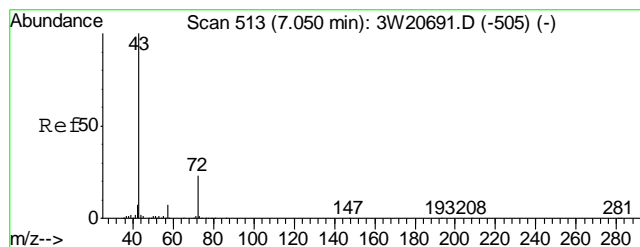
Tgt Ion	Resp	Lower	Upper
59	100		
41	18.0	0.0	38.0
43	7.0	0.0	33.0



#33
HEXANE
Concen: 0.12 PPBV
RT: 7.49 min Scan# 545
Delta R.T. 0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

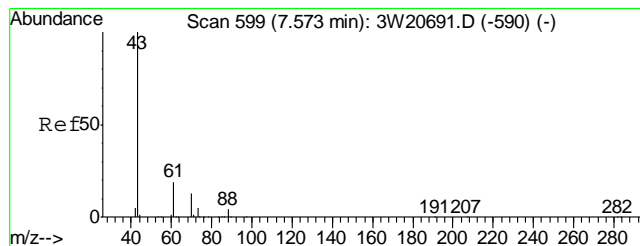
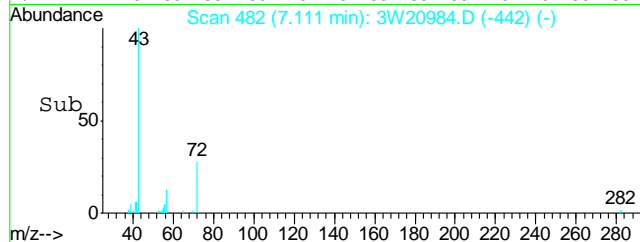
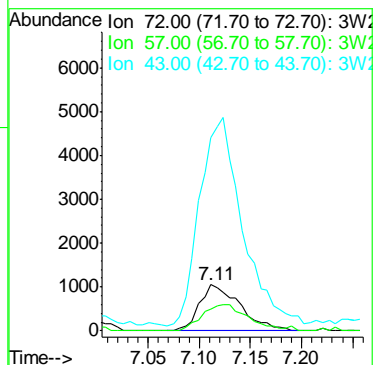
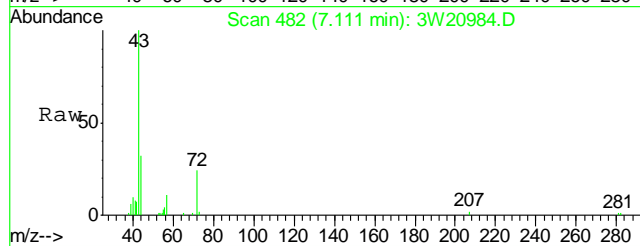
Tgt Ion	Resp	Lower	Upper
57	100		
56	51.6	30.5	70.5
41	102.1	79.2	119.2





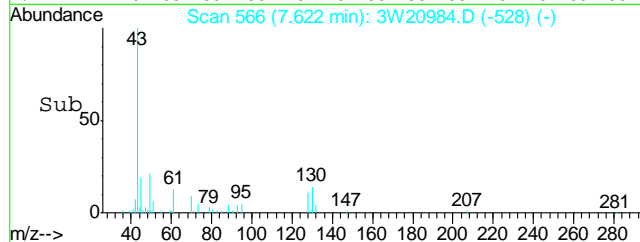
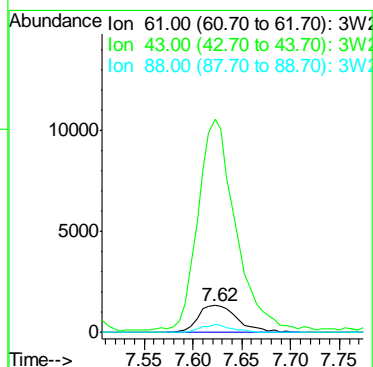
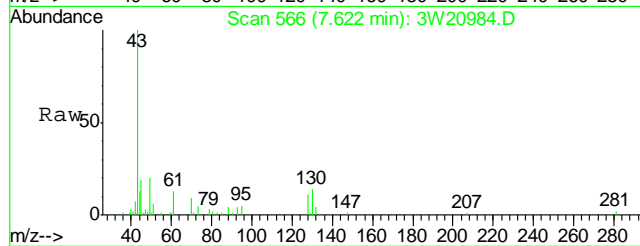
#36
METHYL ETHYL KETONE
Concen: 0.51 PPBV
RT: 7.11 min Scan# 482
Delta R.T. 0.04 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

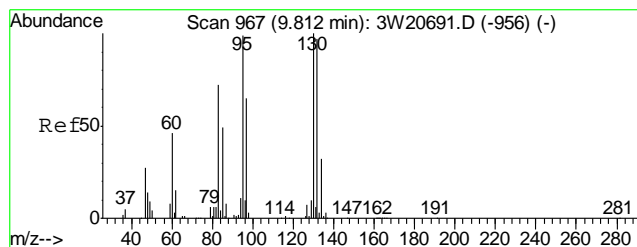
Tgt Ion: 72 Resp: 2902
Ion Ratio Lower Upper
72 100
57 48.0 11.3 51.3
43 421.6 384.1 424.1



#39
ETHYL ACETATE
Concen: 0.93 PPBV
RT: 7.62 min Scan# 566
Delta R.T. 0.03 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

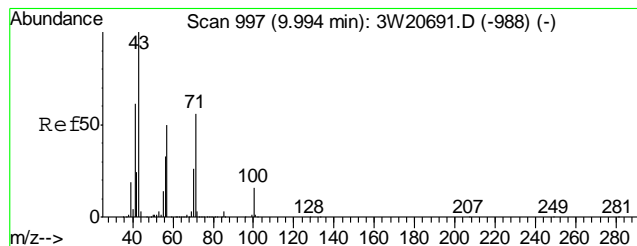
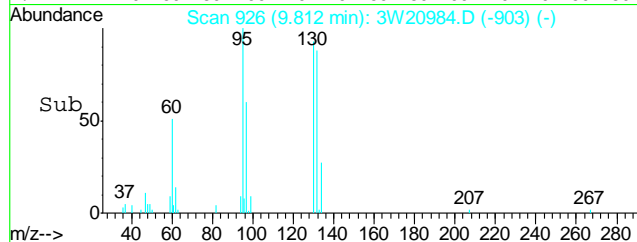
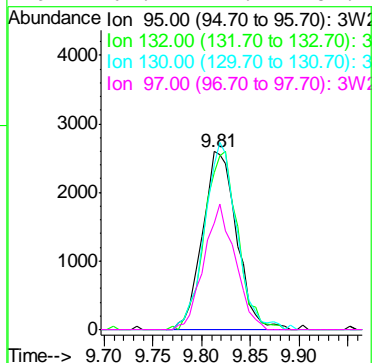
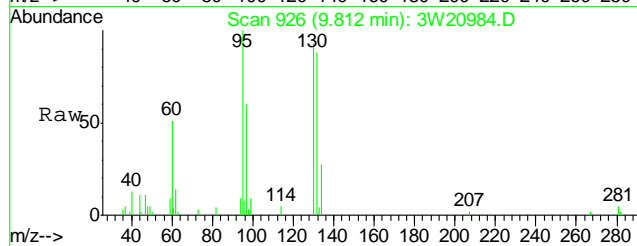
Tgt Ion: 61 Resp: 3737
Ion Ratio Lower Upper
61 100
43 744.7 682.3 722.3#
88 22.8 6.1 46.1





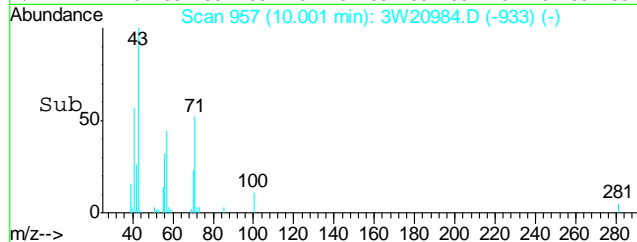
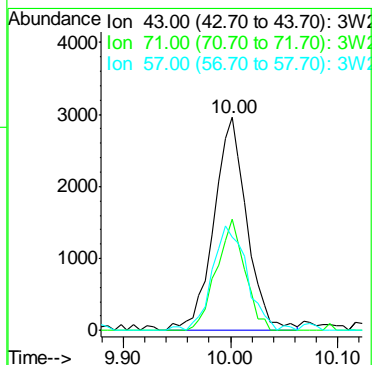
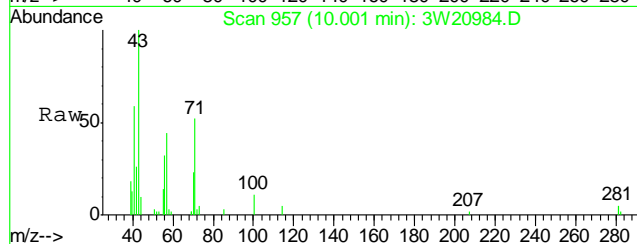
#49
TRICHLOROETHYLENE
Concen: 0.29 PPBV
RT: 9.81 min Scan# 926
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

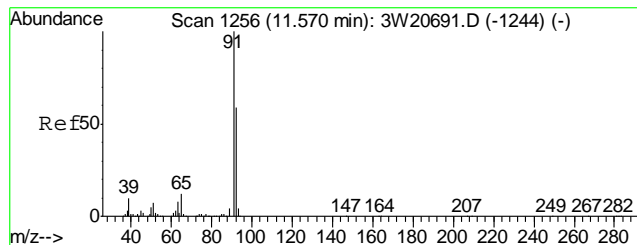
Tgt Ion	Resp	Lower	Upper
95	100		
132	97.6	83.4	123.4
130	99.7	87.1	127.1
97	64.7	44.2	84.2



#54
HEPTANE
Concen: 0.20 PPBV
RT: 10.00 min Scan# 957
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

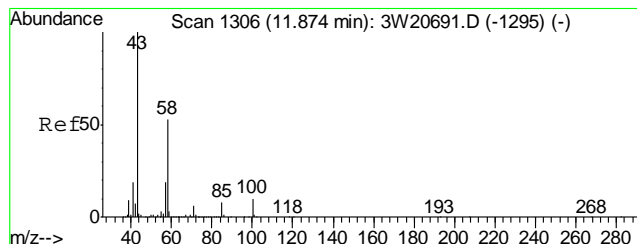
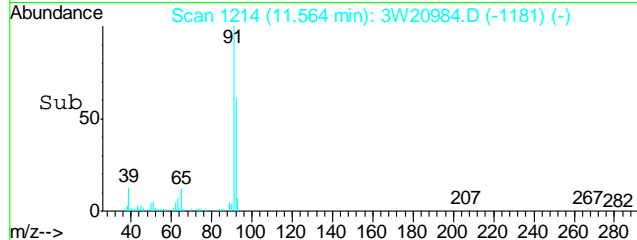
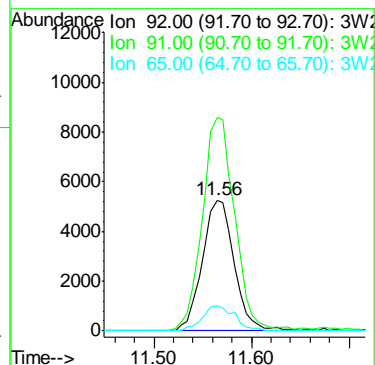
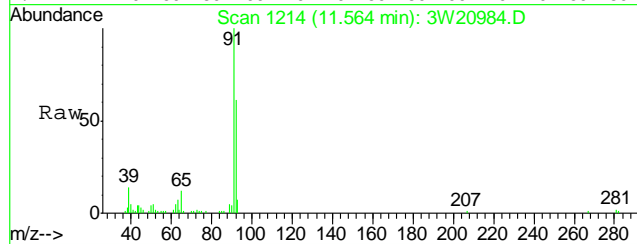
Tgt Ion	Resp	Lower	Upper
43	100		
71	45.2	36.1	76.1
57	51.8	32.3	72.3





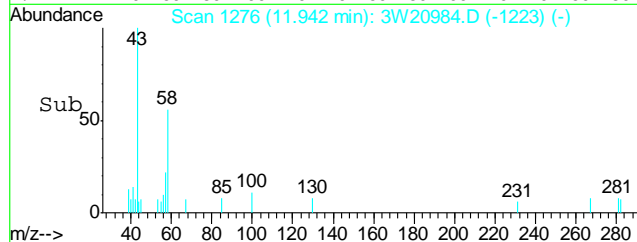
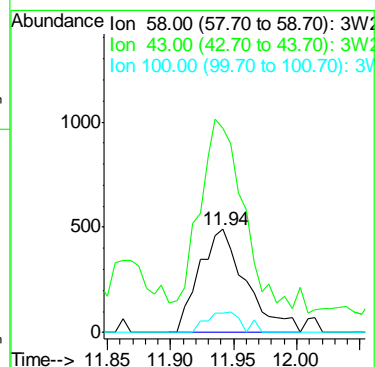
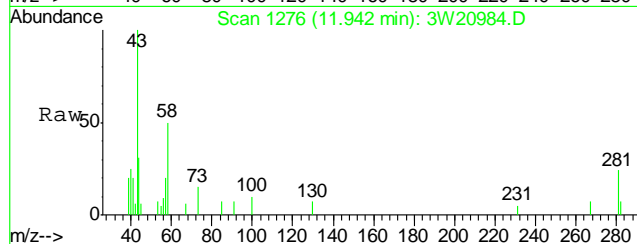
#59
TOLUENE
Concen: 0.41 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

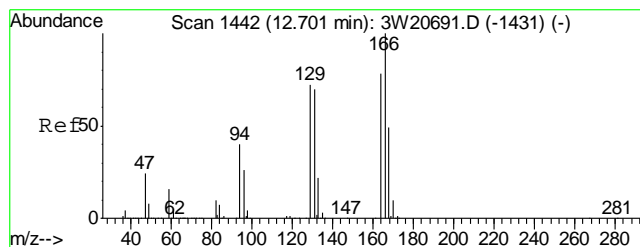
Tgt Ion	Ratio	Lower	Upper
92	100		
91	165.0	148.6	188.6
65	19.5	0.0	38.0



#63
2-HEXANONE
Concen: 0.10 PPBV
RT: 11.94 min Scan# 1276
Delta R.T. 0.08 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

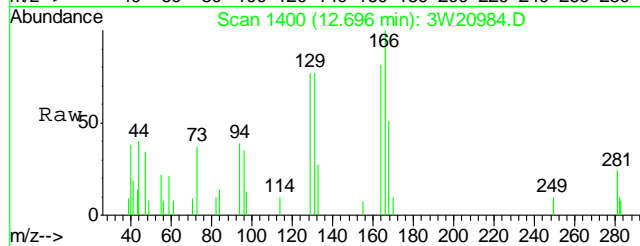
Tgt Ion	Ratio	Lower	Upper
58	100		
43	169.9	166.4	206.4
100	15.1	0.0	39.6





#64
TETRACHLOROETHYLENE
Concen: 0.05 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

Tgt Ion:	164	Resp:	1290
Ion Ratio	Lower	Upper	
164	100		
129	83.8	65.6	105.6
168	57.3	42.3	82.3
131	83.1	63.0	103.0



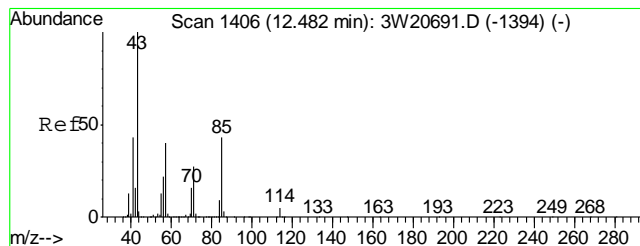
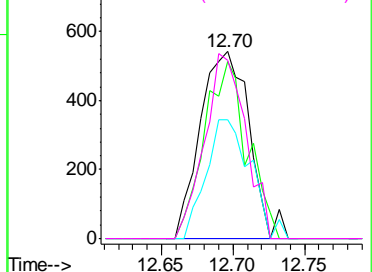
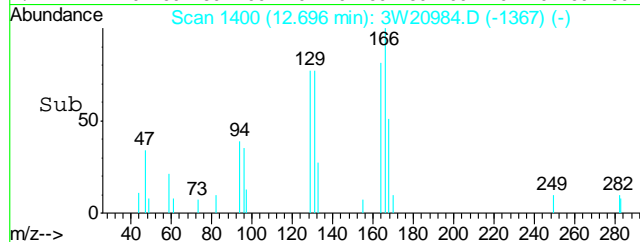
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

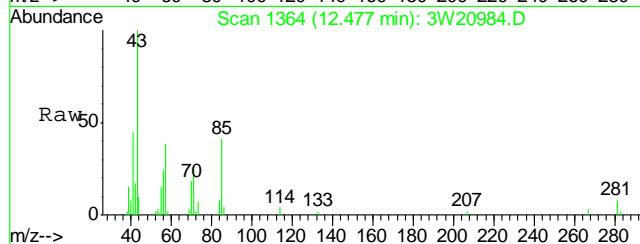
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#67
OCTANE
Concen: 0.19 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

Tgt Ion:	43	Resp:	7341
Ion Ratio	Lower	Upper	
43	100		
85	37.2	24.9	64.9
57	35.2	19.9	59.9

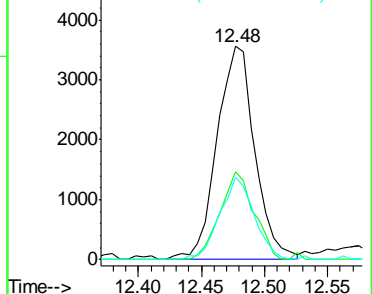
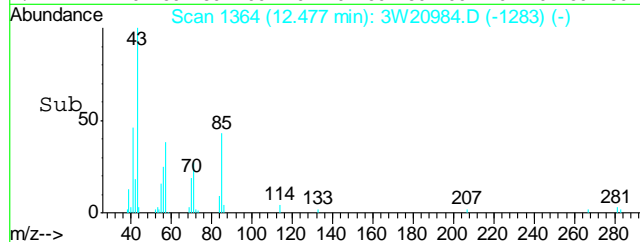


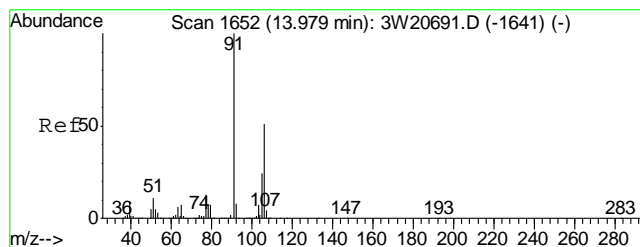
Abundance

Ion 43.00 (42.70 to 43.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

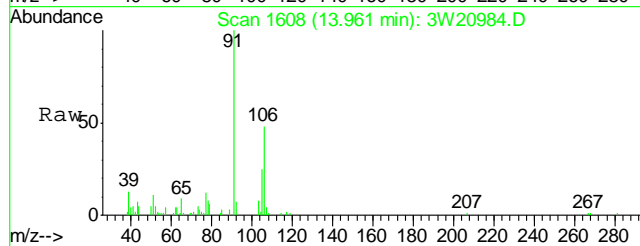
Ion 57.00 (56.70 to 57.70): 3W2



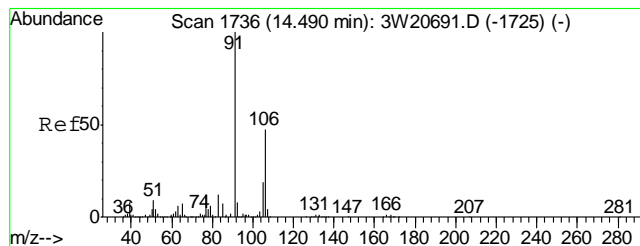
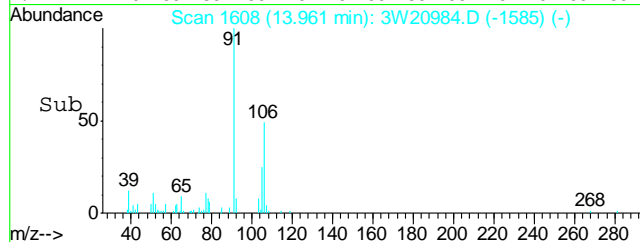
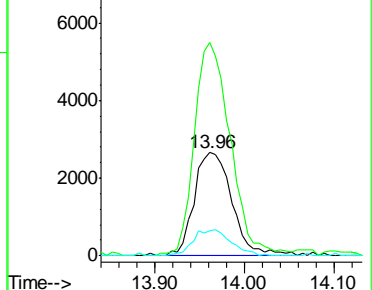


#71
m,p-XYLENE
Concen: 0.38 PPBV
RT: 13.96 min Scan# 1608
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

Tgt Ion	Ratio	Lower	Upper
106	100		
91	206.7	176.1	216.1
77	24.3	4.4	44.4

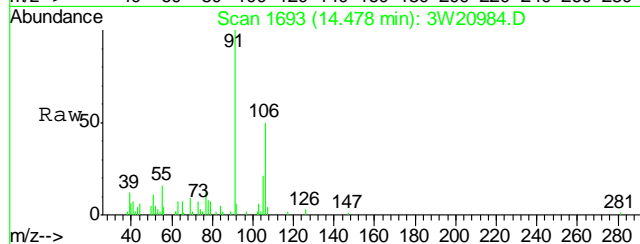


Abundance Ion 106.00 (105.70 to 106.70): 3
Ion 90.95 (90.65 to 91.65): 3W2
Ion 77.00 (76.70 to 77.70): 3W2

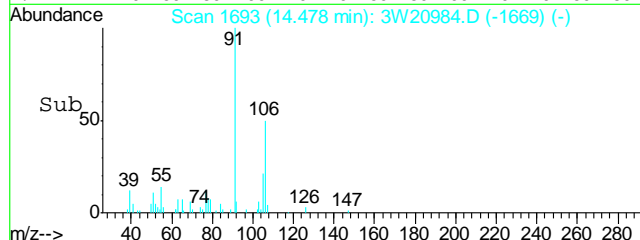
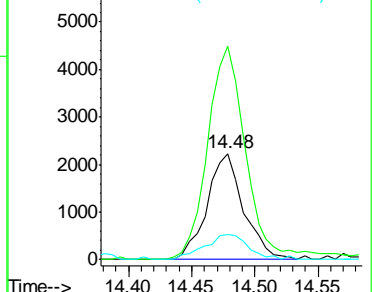


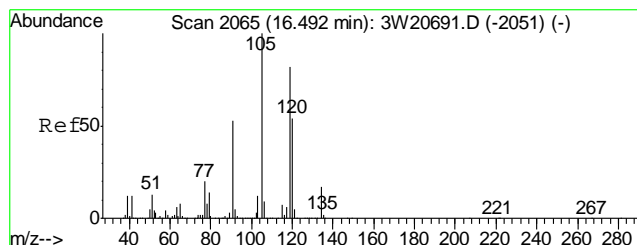
#72
o-XYLENE
Concen: 0.23 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

Tgt Ion	Ratio	Lower	Upper
106	100		
91	214.2	186.8	226.8
77	28.5	3.9	43.9



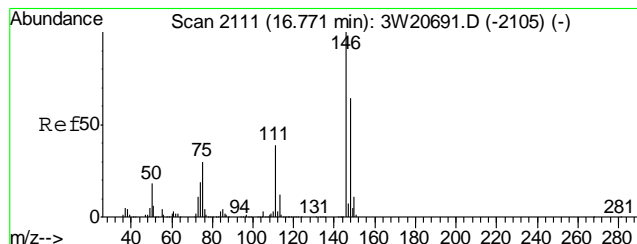
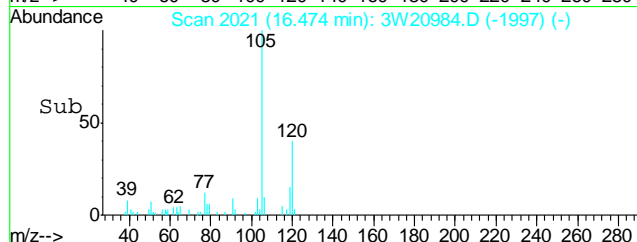
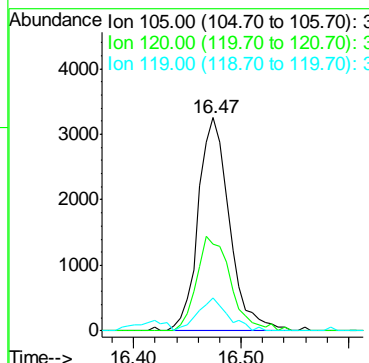
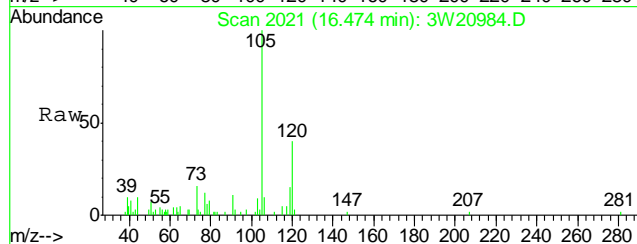
Abundance Ion 106.00 (105.70 to 106.70): 3
Ion 91.00 (90.70 to 91.70): 3W2
Ion 77.00 (76.70 to 77.70): 3W2





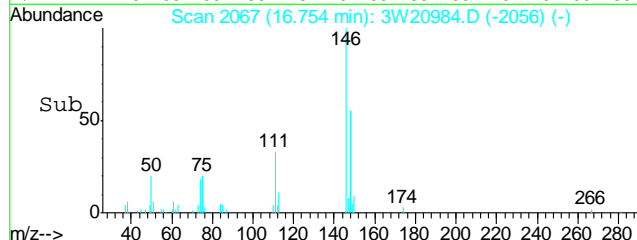
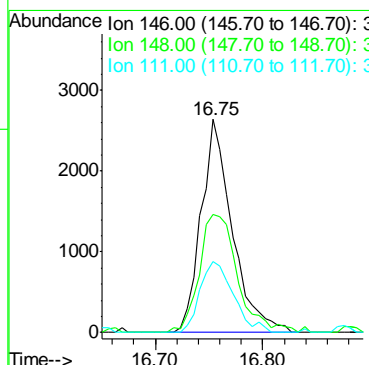
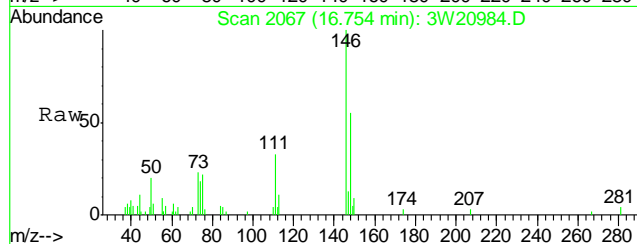
#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.23 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.0	39.2	79.2
119	14.9	104.5	144.5#



#88
p-DICHLOROBENZENE
Concen: 0.30 PPBV
RT: 16.75 min Scan# 2067
Delta R.T. -0.01 min
Lab File: 3W20984.D
Acq: 24 Feb 2011 5:38 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.8	44.2	84.2
111	35.8	14.5	54.5



Manual Integration Approval Summary

Sample Number: JA68565-3

Method: TO-15

Lab FileID: 3W20984.D

Analyst approved: 02/25/11 10:31 Yunxia Chen

Injection Time: 02/24/11 17:38

Supervisor approved: 03/10/11 05:28 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Isopropyl Alcohol	67-63-0		5.65	Missed peak
Tertiary Butyl Alcohol	75-65-0		6.11	Split peak

6.1.4.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20985.D Vial: 4
 Acq On : 24 Feb 2011 6:18 pm Operator: yunxiac
 Sample : ja68565-4 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:10:47 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	141868	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	690768	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	316404	10.00	PPBV	-0.01
95) CHLOROBENZENE-D5 (a)	13.37	82	316843	10.00	PPBV	-0.01

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	181836	5.41	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	108.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) DICHLORODIFLUOROMETHANE	4.39	85	20868	0.50	PPBV	99
6) PROPYLENE	4.34	41	9566	0.61	PPBV	89
11) n-BUTANE	4.73	43	13947	0.51	PPBV #	92
16) TRICHLOROFLUOROMETHANE	5.45	101	5011	0.12	PPBV	98
17) ISOPROPYL ALCOHOL	5.59	45	98563	4.26	PPBV	88
18) ACETONE	5.35	58	347893	62.08	PPBV #	89
23) CARBON DISULFIDE	6.17	76	66727	1.34	PPBV	97
24) ETHANOL	5.12	45	149781	25.92	PPBV	98
28) FREON 113	6.11	151	33150	1.17	PPBV	96
30) TERTIARY BUTYL ALCOHOL	6.03	59	6605	0.25	PPBV	92
33) HEXANE	7.48	57	3691	0.15	PPBV #	72
36) METHYL ETHYL KETONE	7.09	72	5446	1.04	PPBV #	81
39) ETHYL ACETATE	7.59	61	13104	3.57	PPBV #	86
46) BENZENE	8.88	78	5219	0.13	PPBV	95
49) TRICHLOROETHYLENE	9.82	95	233204	11.51	PPBV	96
54) HEPTANE	10.00	43	4093	0.14	PPBV	80
59) TOLUENE	11.56	92	15708	0.59	PPBV	94
64) TETRACHLOROETHYLENE	12.70	164	3245	0.14	PPBV	96
71) m,p-XYLENE	13.96	106	6737	0.36	PPBV	96
72) o-XYLENE	14.47	106	4001	0.23	PPBV	89
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	6751	0.26	PPBV #	29
88) p-DICHLOROBENZENE	16.75	146	6155	0.37	PPBV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20985.D M3W821.M Fri Feb 25 10:20:16 2011 MS3W

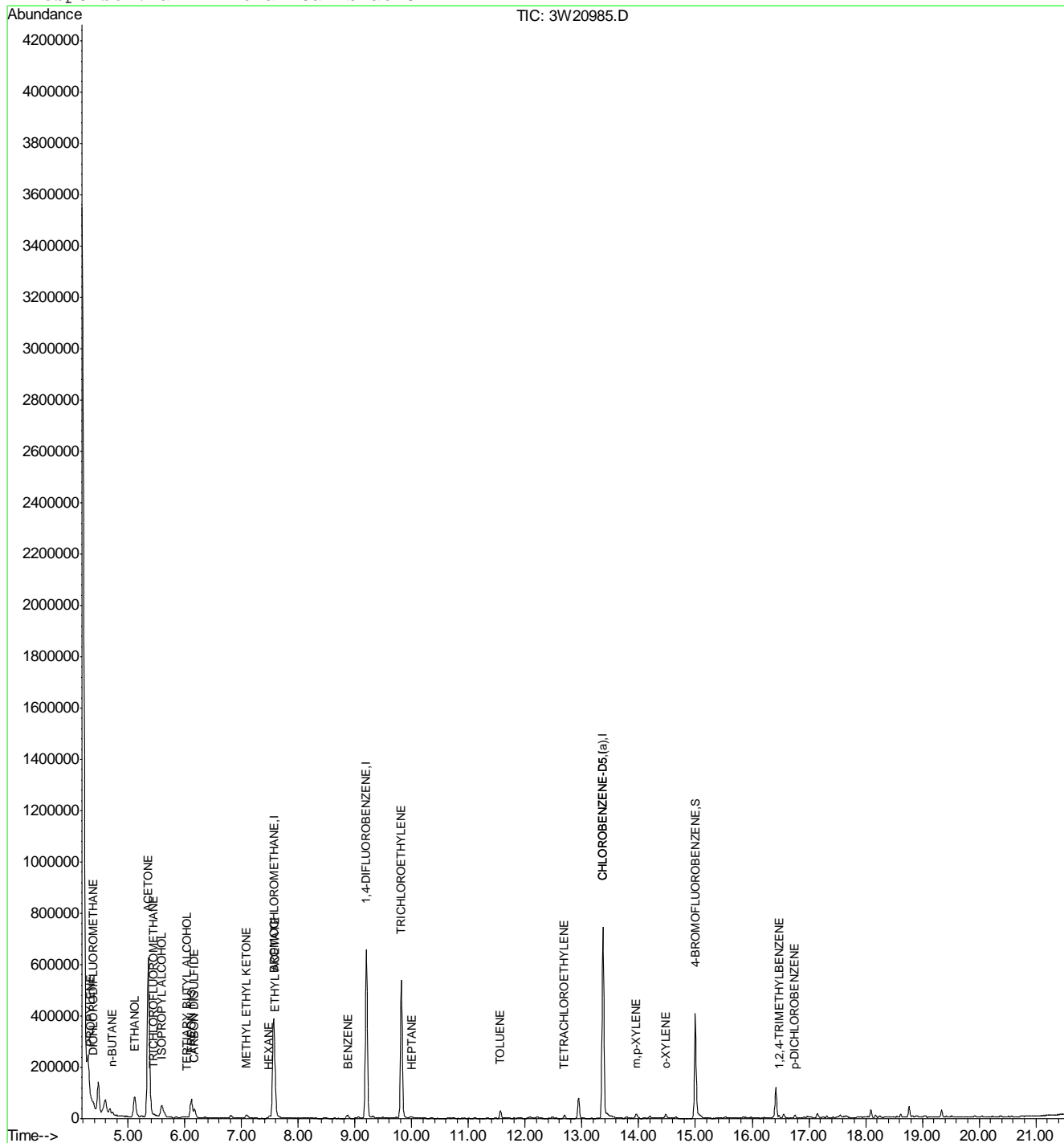
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20985.D
Acq On : 24 Feb 2011 6:18 pm
Sample : ja68565-4
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:08 2011

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:09 2011
Response via : Initial Calibration

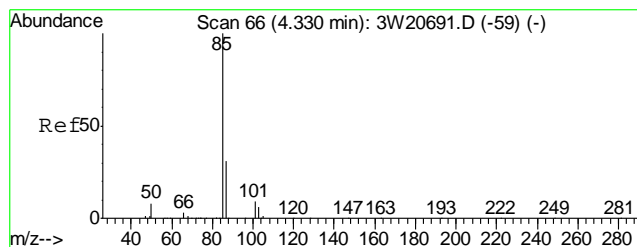


3W20985.D M3W821.M

Fri Feb 25 10:20:17 2011

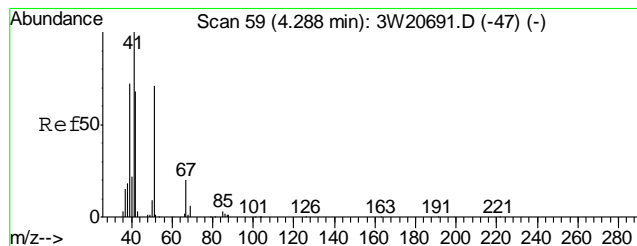
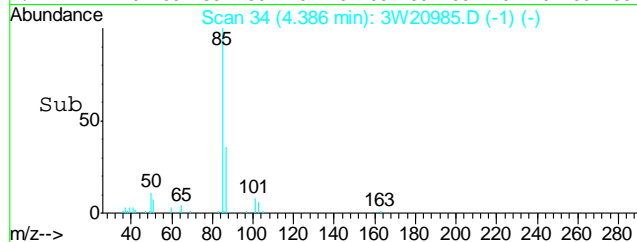
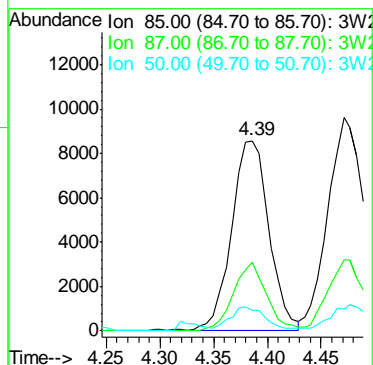
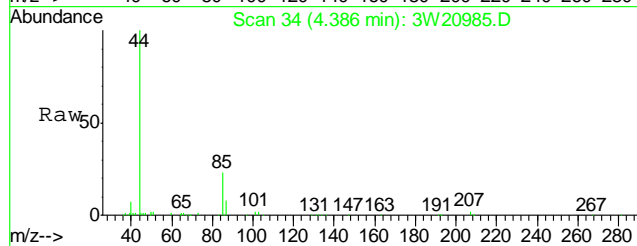
MS3W

Page 2



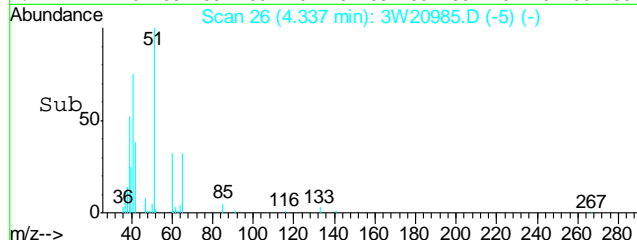
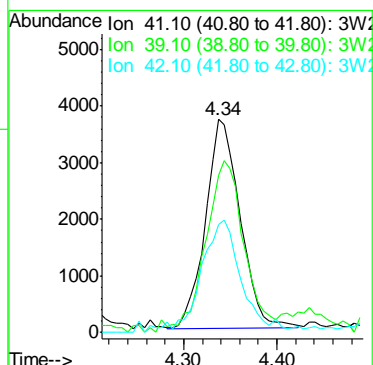
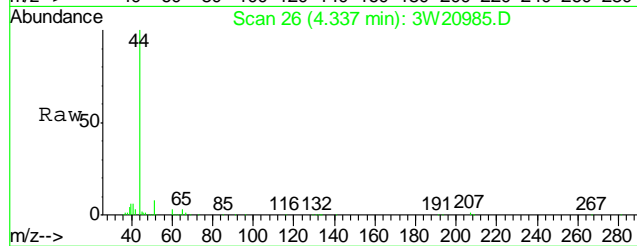
#5
 DICHLORODIFLUOROMETHANE
 Concen: 0.50 PPBV
 RT: 4.39 min Scan# 34
 Delta R.T. 0.01 min
 Lab File: 3W20985.D
 Acq: 24 Feb 2011 6:18 pm

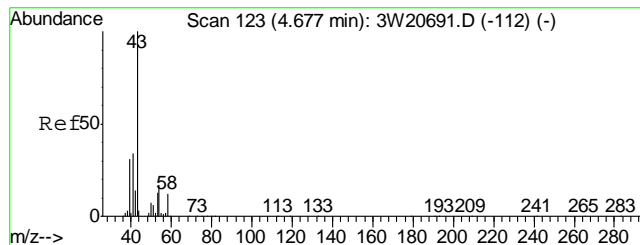
Tgt Ion:	85	Resp:	20868
Ion Ratio	Lower	Upper	
85	100		
87	32.2	12.9	52.9
50	11.2	0.0	30.6



#6
 PROPYLENE
 Concen: 0.61 PPBV
 RT: 4.34 min Scan# 26
 Delta R.T. 0.01 min
 Lab File: 3W20985.D
 Acq: 24 Feb 2011 6:18 pm

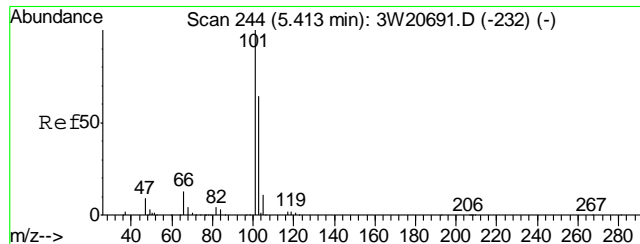
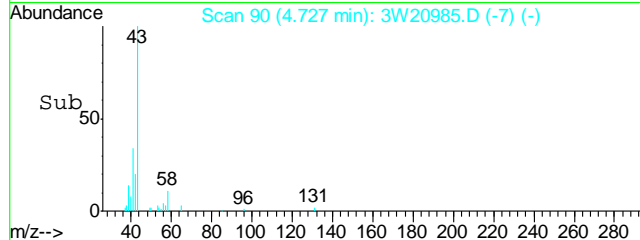
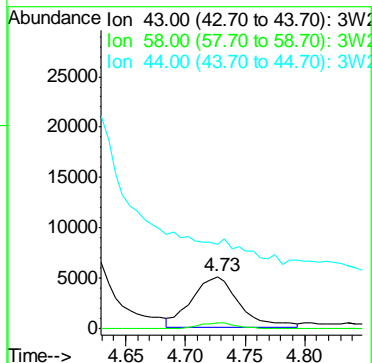
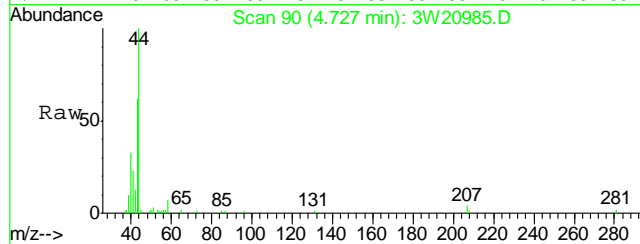
Tgt Ion:	41	Resp:	9566
Ion Ratio	Lower	Upper	
41	100		
39	85.4	50.7	90.7
42	63.0	46.0	86.0





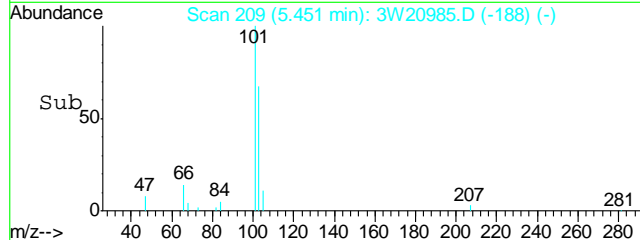
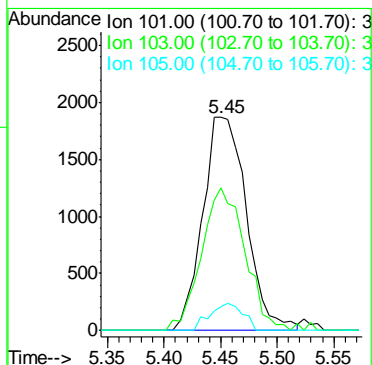
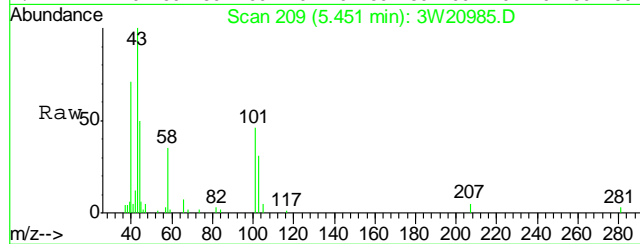
#11
n-BUTANE
Concen: 0.51 PPBV
RT: 4.73 min Scan# 90
Delta R.T. 0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

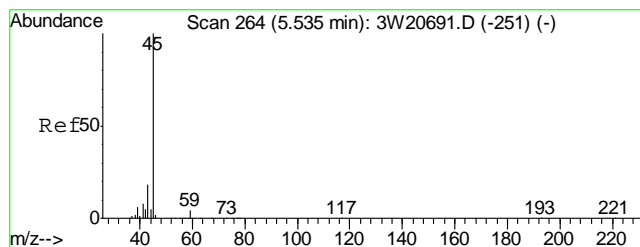
Tgt Ion:	43	Resp:	13947
Ion	Ratio	Lower	Upper
43	100		
58	9.6	0.0	32.1
44	0.0	0.0	23.9



#16
TRICHLOROFLUOROMETHANE
Concen: 0.12 PPBV
RT: 5.45 min Scan# 209
Delta R.T. 0.00 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

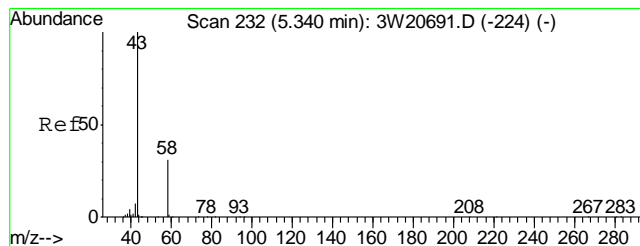
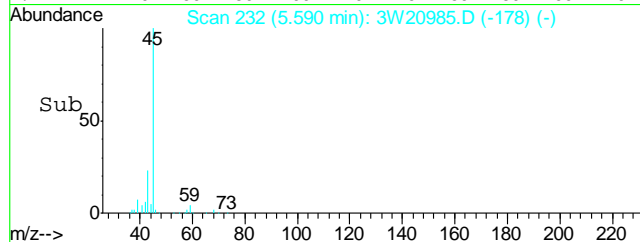
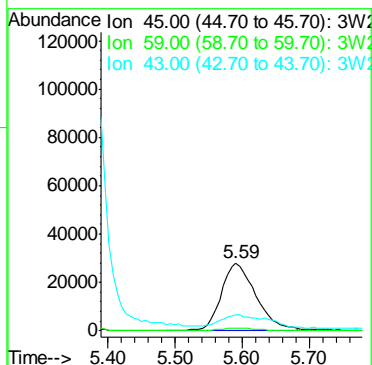
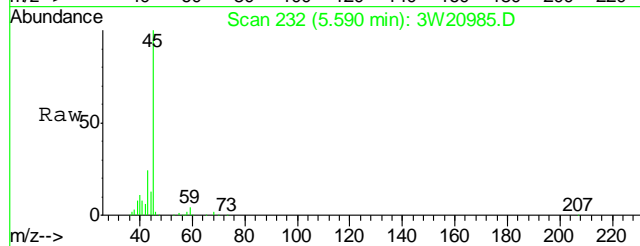
Tgt Ion:	101	Resp:	5011
Ion	Ratio	Lower	Upper
101	100		
103	66.6	45.5	85.5
105	9.6	0.0	30.6





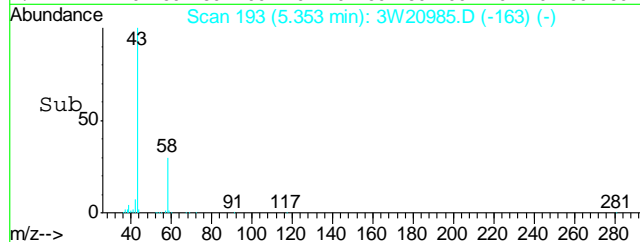
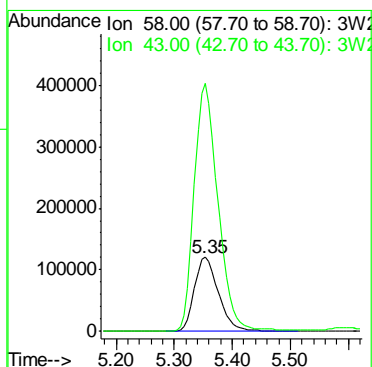
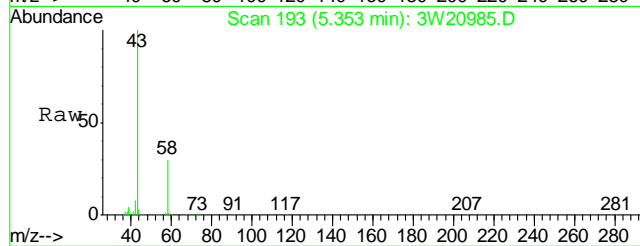
#17
ISOPROPYL ALCOHOL
Concen: 4.26 PPBV
RT: 5.59 min Scan# 232
Delta R.T. 0.03 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

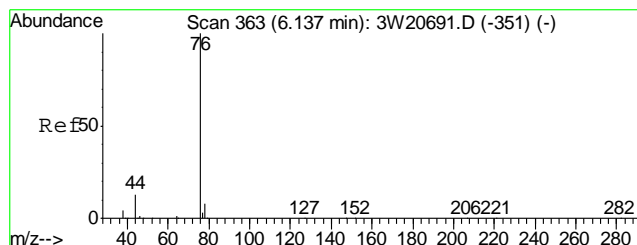
Tgt Ion:	45	Resp:	98563
Ion Ratio	Lower	Upper	
45	100		
59	3.8	0.0	23.7
43	23.5	0.0	37.4



#18
ACETONE
Concen: 62.08 PPBV
RT: 5.35 min Scan# 193
Delta R.T. -0.02 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

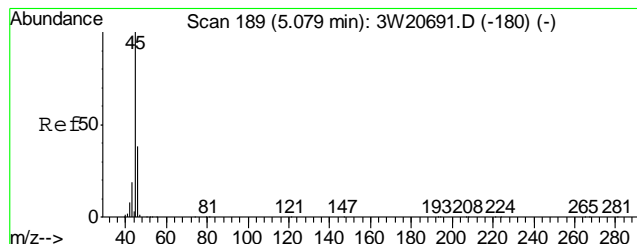
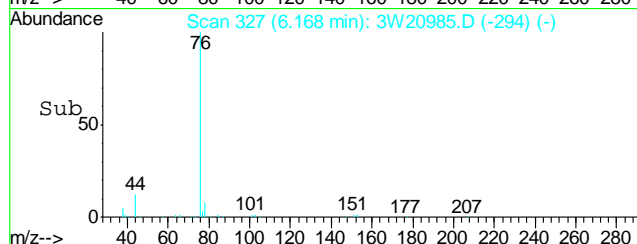
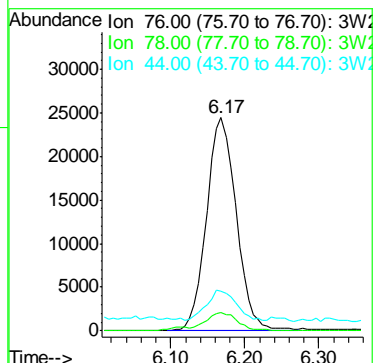
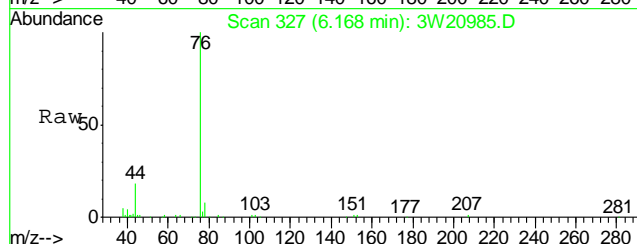
Tgt Ion:	58	Resp:	347893
Ion Ratio	Lower	Upper	
58	100		
43	330.3	289.1	329.1#





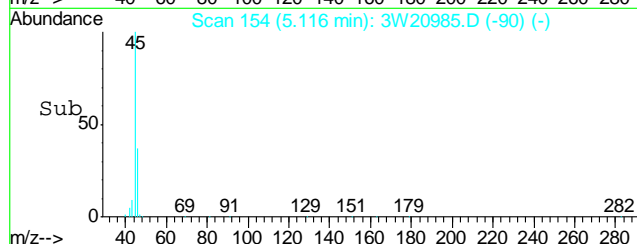
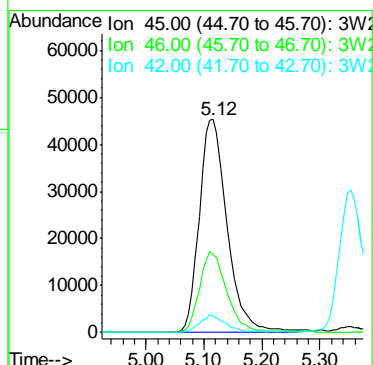
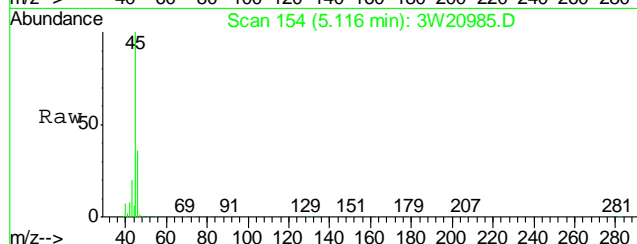
#23
CARBON DISULFIDE
Concen: 1.34 PPBV
RT: 6.17 min Scan# 327
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

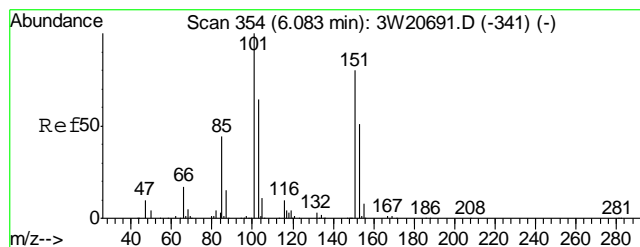
Tgt Ion:	76	Resp:	66727
Ion Ratio	Lower	Upper	
76	100		
78	10.5	0.0	30.5
44	13.5	0.0	31.7



#24
ETHANOL
Concen: 25.92 PPBV
RT: 5.12 min Scan# 154
Delta R.T. 0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

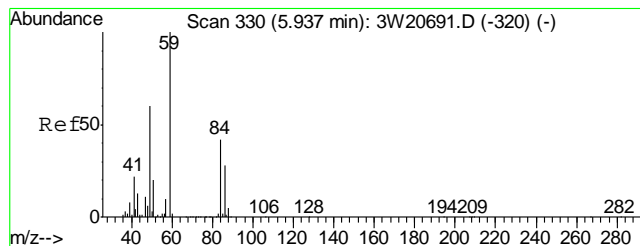
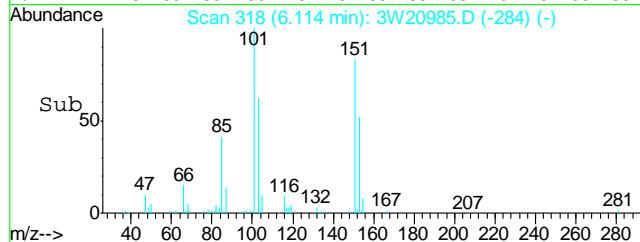
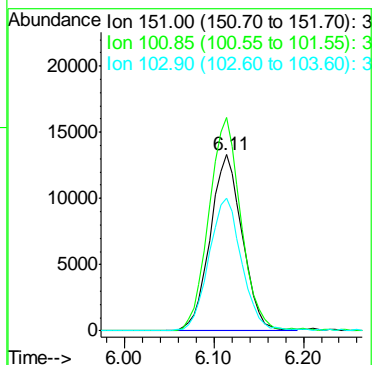
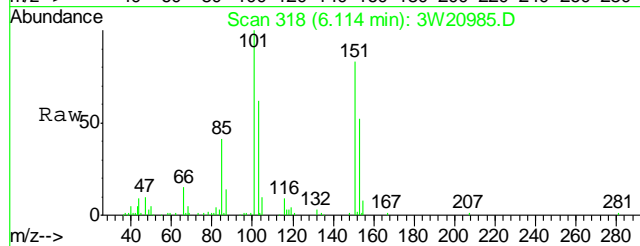
Tgt Ion:	45	Resp:	149781
Ion Ratio	Lower	Upper	
45	100		
46	37.1	18.2	58.2
42	7.6	0.0	27.7





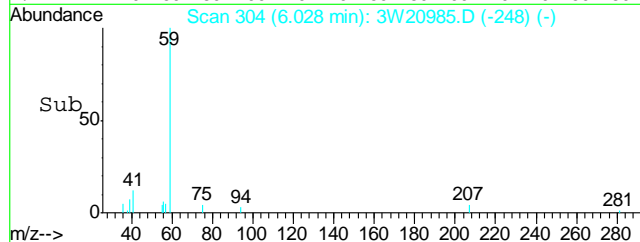
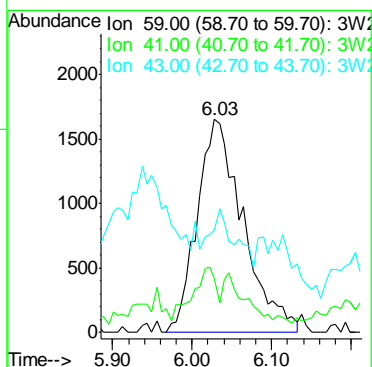
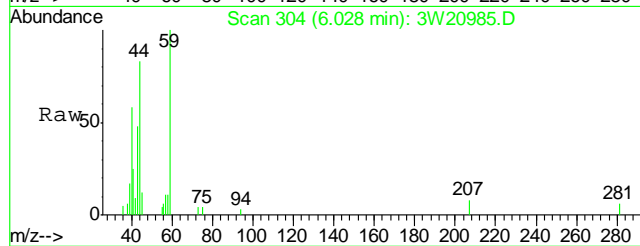
#28
FREON 113
Concen: 1.17 PPBV
RT: 6.11 min Scan# 318
Delta R.T. 0.00 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

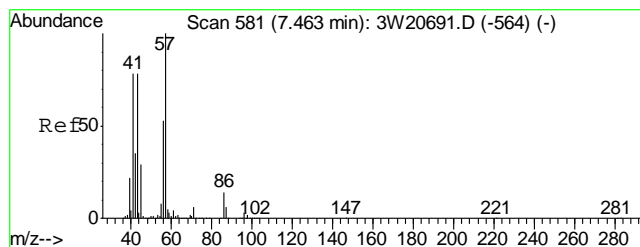
Tgt Ion	Ratio	Lower	Upper
151	100		
101	121.4	95.5	135.5
103	77.2	54.9	94.9



#30
TERTIARY BUTYL ALCOHOL
Concen: 0.25 PPBV
RT: 6.03 min Scan# 304
Delta R.T. 0.04 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

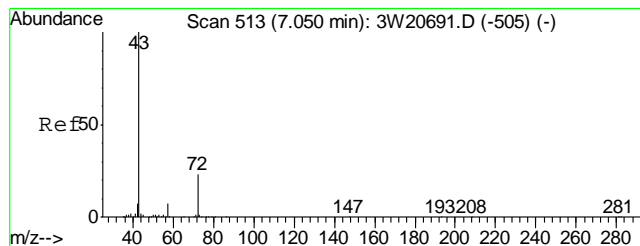
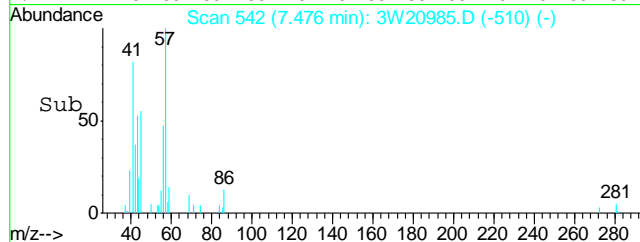
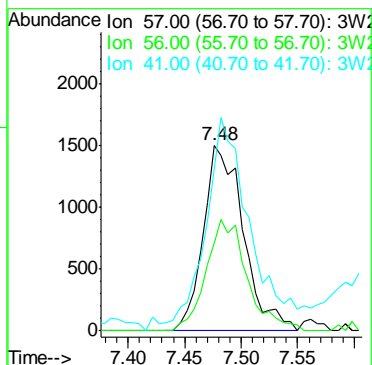
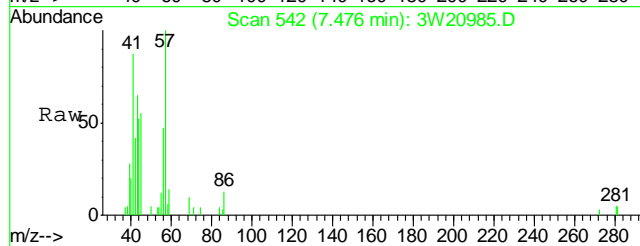
Tgt Ion	Ratio	Lower	Upper
59	100		
41	13.0	0.0	38.0
43	14.1	0.0	33.0





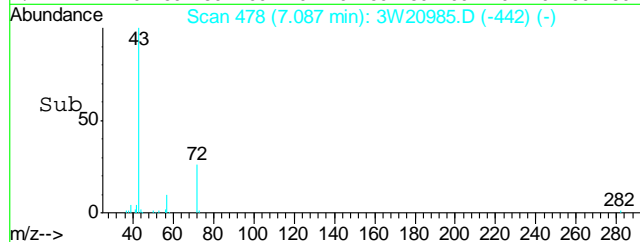
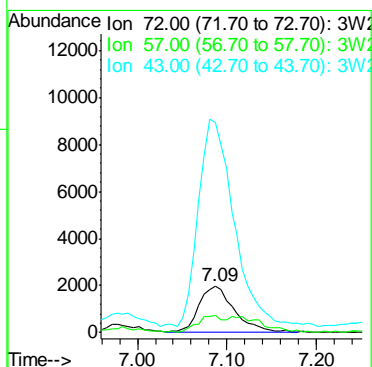
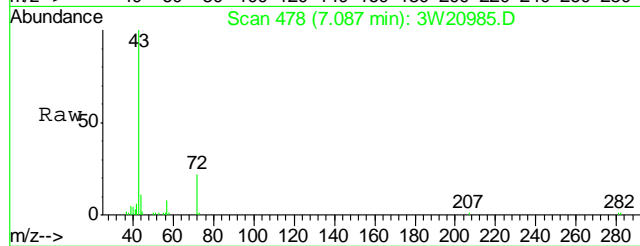
#33
 HEXANE
 Concen: 0.15 PPBV
 RT: 7.48 min Scan# 542
 Delta R.T. -0.01 min
 Lab File: 3W20985.D
 Acq: 24 Feb 2011 6:18 pm

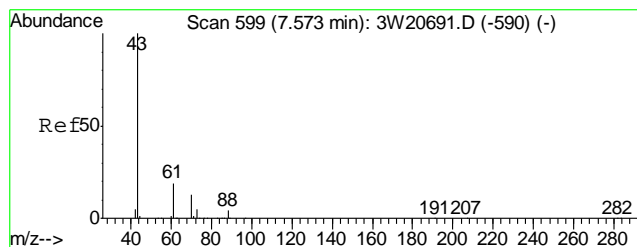
Tgt Ion	Resp	Lower	Upper
57	3691		
56	61.2	30.5	70.5
41	132.8	79.2	119.2



#36
 METHYL ETHYL KETONE
 Concen: 1.04 PPBV
 RT: 7.09 min Scan# 478
 Delta R.T. 0.01 min
 Lab File: 3W20985.D
 Acq: 24 Feb 2011 6:18 pm

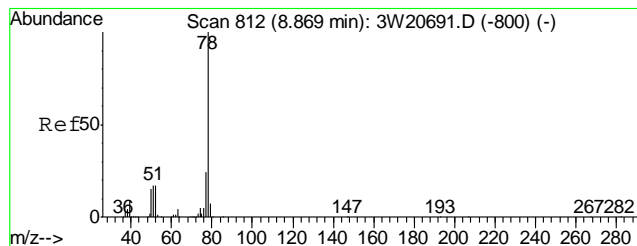
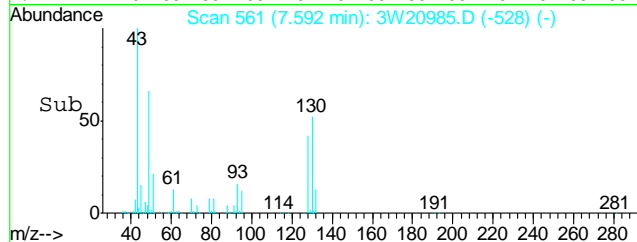
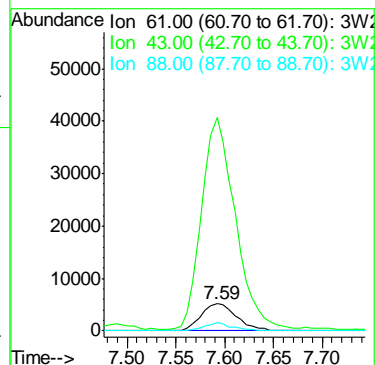
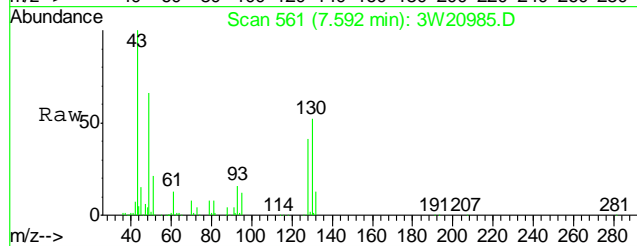
Tgt Ion	Resp	Lower	Upper
72	5446		
57	36.7	11.3	51.3
43	451.0	384.1	424.1





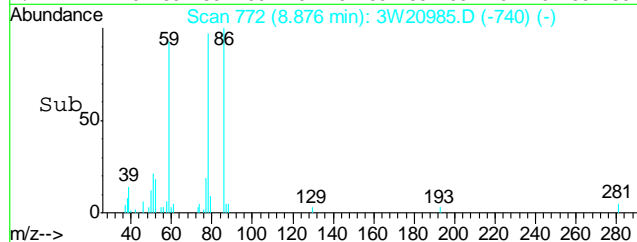
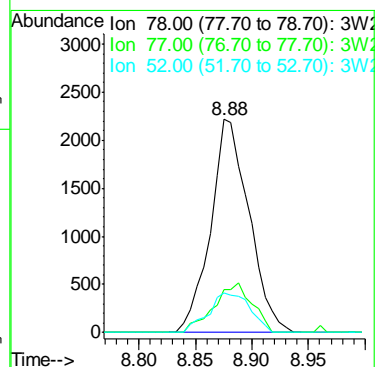
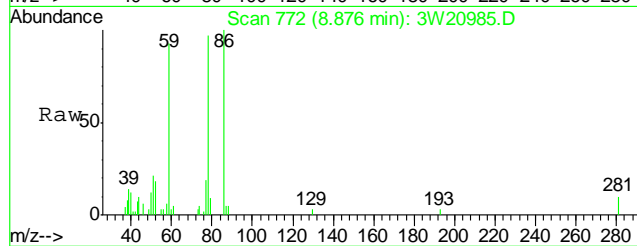
#39
ETHYL ACETATE
Concen: 3.57 PPBV
RT: 7.59 min Scan# 561
Delta R.T. 0.00 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

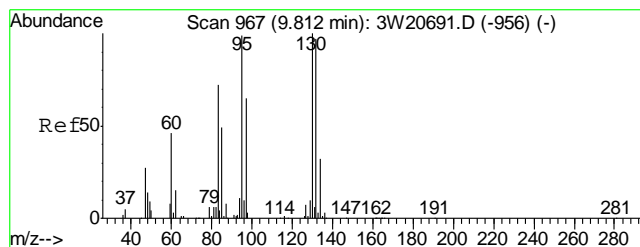
Tgt Ion	Ratio	Lower	Upper
61	100		
43	752.9	682.3	722.3#
88	24.6	6.1	46.1



#46
BENZENE
Concen: 0.13 PPBV
RT: 8.88 min Scan# 772
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

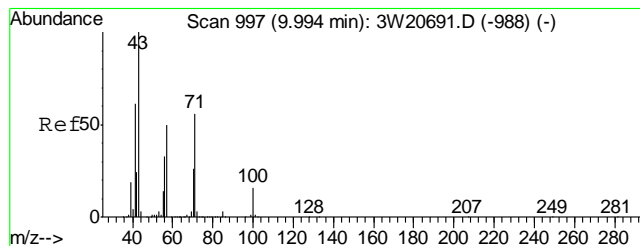
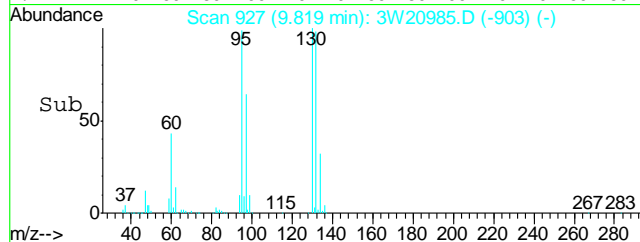
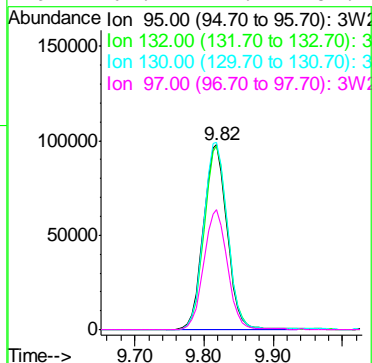
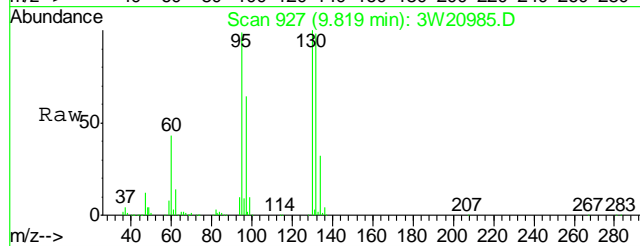
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	3.6	43.6
52	20.2	0.0	35.5





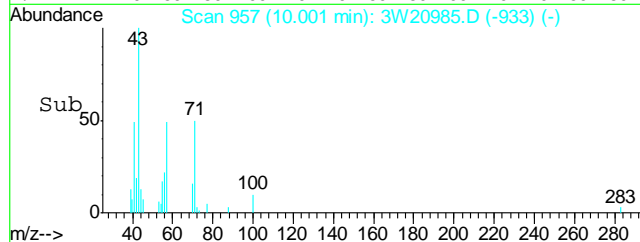
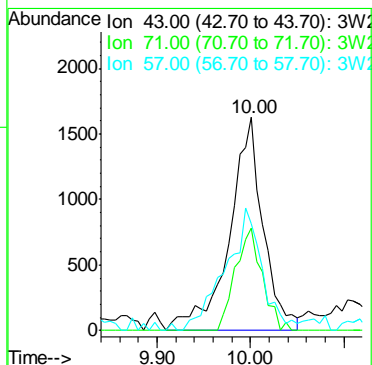
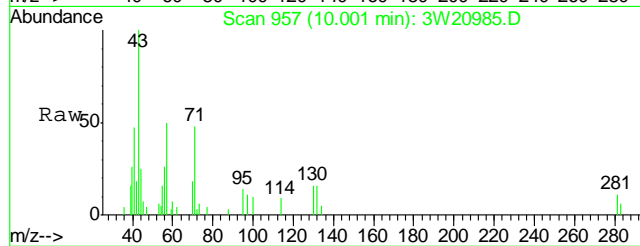
#49
TRICHLOROETHYLENE
Concen: 11.51 PPBV
RT: 9.82 min Scan# 927
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

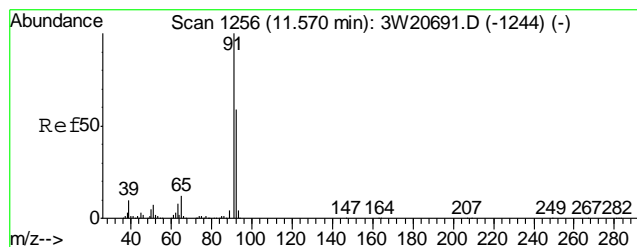
Tgt Ion:	95	Resp:	233204
Ion Ratio	Lower	Upper	
95	100		
132	98.2	83.4	123.4
130	102.1	87.1	127.1
97	64.7	44.2	84.2



#54
HEPTANE
Concen: 0.14 PPBV
RT: 10.00 min Scan# 957
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

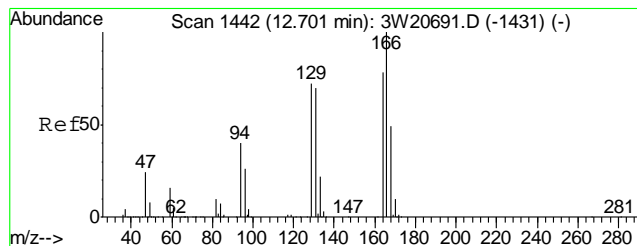
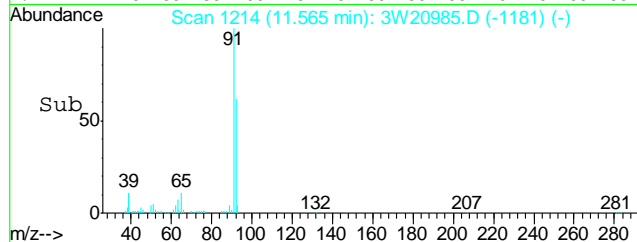
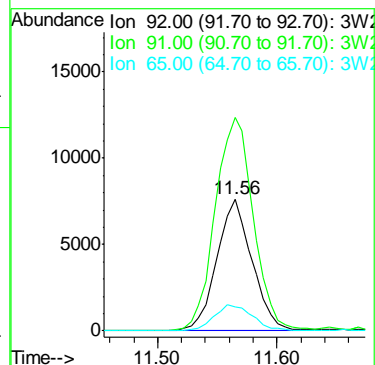
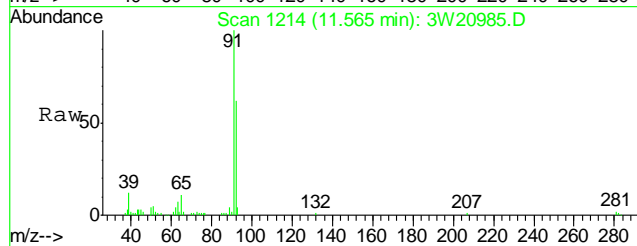
Tgt Ion:	43	Resp:	4093
Ion Ratio	Lower	Upper	
43	100		
71	38.0	36.1	76.1
57	62.5	32.3	72.3





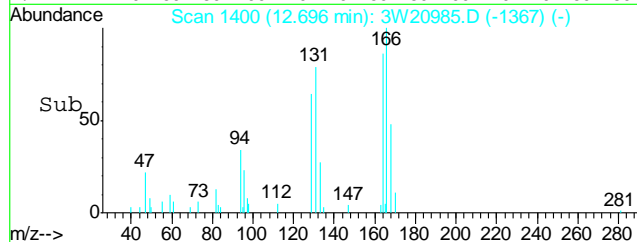
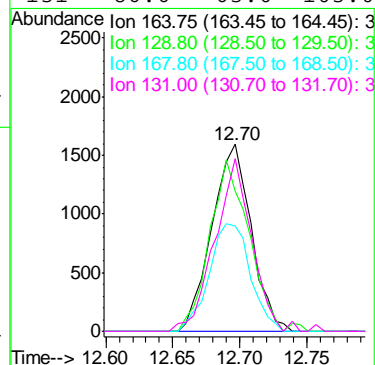
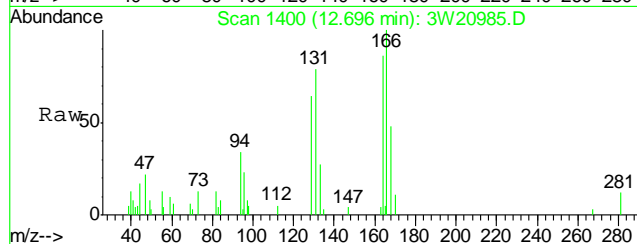
#59
TOLUENE
Concen: 0.59 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

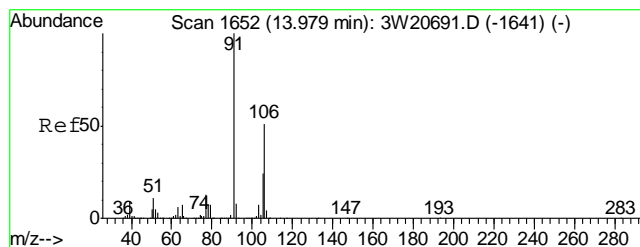
Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.0	148.6	188.6
65	21.4	0.0	38.0



#64
TETRACHLOROETHYLENE
Concen: 0.14 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

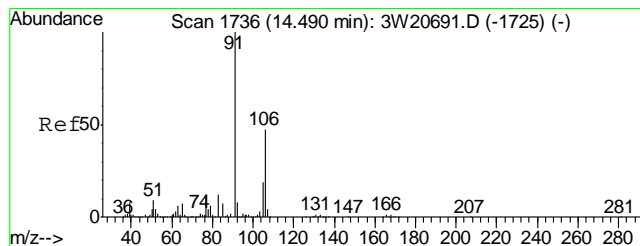
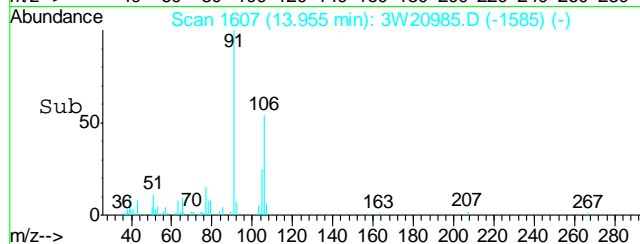
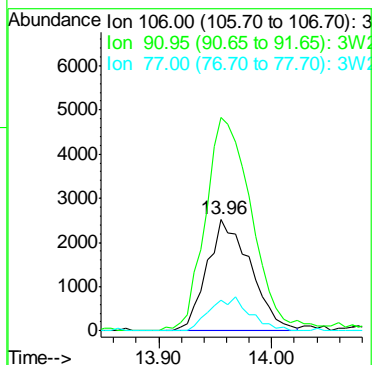
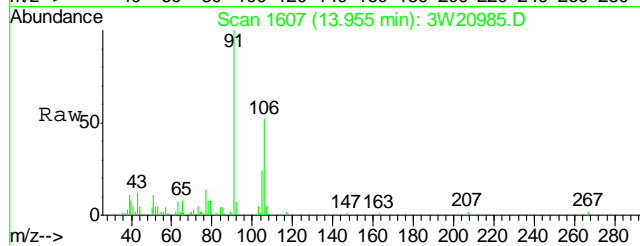
Tgt Ion	Ratio	Lower	Upper
164	100		
129	90.5	65.6	105.6
168	60.4	42.3	82.3
131	86.6	63.0	103.0





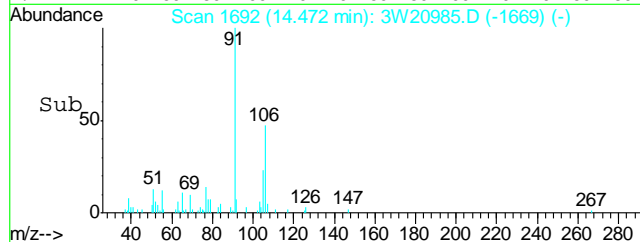
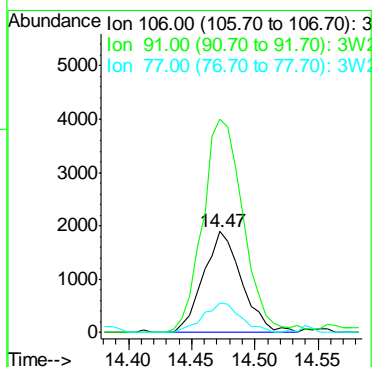
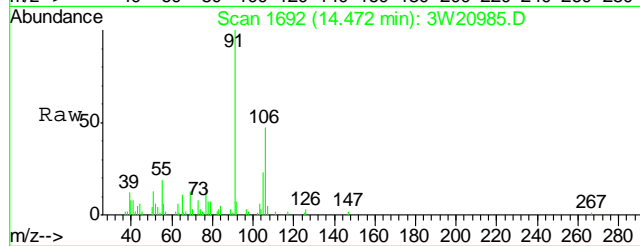
#71
m,p-XYLENE
Concen: 0.36 PPBV
RT: 13.96 min Scan# 1607
Delta R.T. -0.02 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

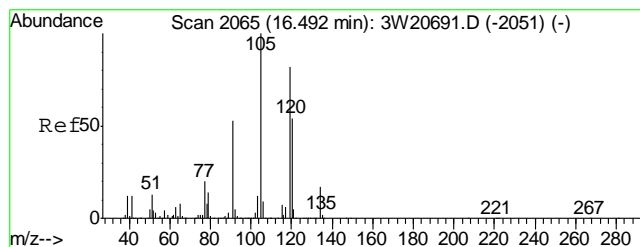
Tgt Ion	Ratio	Lower	Upper
106	100		
91	191.0	176.1	216.1
77	27.5	4.4	44.4



#72
o-XYLENE
Concen: 0.23 PPBV
RT: 14.47 min Scan# 1692
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

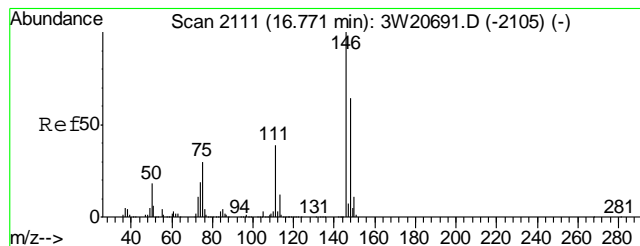
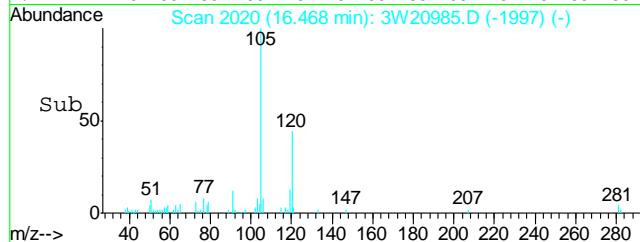
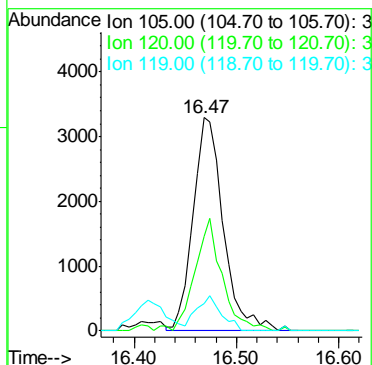
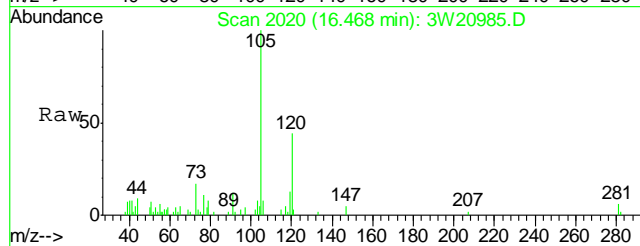
Tgt Ion	Ratio	Lower	Upper
106	100		
91	223.4	186.8	226.8
77	28.8	3.9	43.9





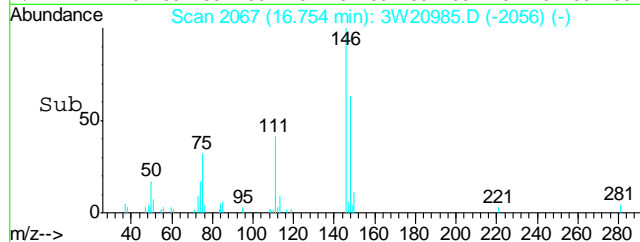
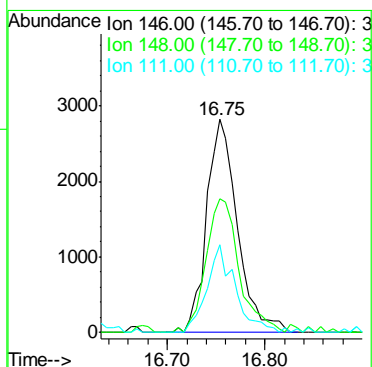
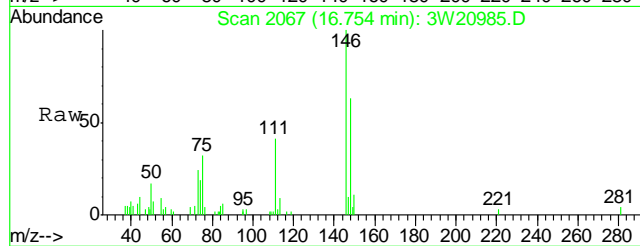
#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.26 PPBV
RT: 16.47 min Scan# 2020
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.7	39.2	79.2
119	13.4	104.5	144.5#



#88
p-DICHLOROBENZENE
Concen: 0.37 PPBV
RT: 16.75 min Scan# 2067
Delta R.T. -0.01 min
Lab File: 3W20985.D
Acq: 24 Feb 2011 6:18 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.3	44.2	84.2
111	37.7	14.5	54.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21012.D Vial: 4
 Acq On : 25 Feb 2011 2:57 pm Operator: yunxiac
 Sample : JA68565-4 Inst : MS3W
 Misc : MS8536,V3W829,40,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 15:39:59 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	163429	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	794327	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	371341	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	372822	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	210889	5.34	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	106.80%

Target Compounds

						Qvalue
5) DICHLORODIFLUOROMETHANE	4.38	85	9811	0.20	PPBV	95
6) PROPYLENE	4.33	41	6044	0.33	PPBV	82
11) n-BUTANE	4.72	43	6636	0.21	PPBV #	92
17) ISOPROPYL ALCOHOL	5.63	45	34472m	1.29	PPBV	
18) ACETONE	5.37	58	107126	16.59	PPBV #	89
23) CARBON DISULFIDE	6.16	76	27194	0.47	PPBV	89
24) ETHANOL	5.13	45	57602	8.65	PPBV	100
28) FREON 113	6.11	151	13275	0.41	PPBV	92
36) METHYL ETHYL KETONE	7.11	72	1526	0.25	PPBV #	71
39) ETHYL ACETATE	7.60	61	3777	0.89	PPBV #	87
49) TRICHLOROETHYLENE	9.82	95	90219	3.87	PPBV	97
59) TOLUENE	11.57	92	5870	0.19	PPBV	92
64) TETRACHLOROETHYLENE	12.70	164	1258	0.05	PPBV	94
71) m,p-XYLENE	13.96	106	2368	0.11	PPBV	97
88) p-DICHLOROBENZENE	16.75	146	1993	0.10	PPBV	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21012.D M3W821.M Fri Feb 25 15:50:38 2011 MS3W

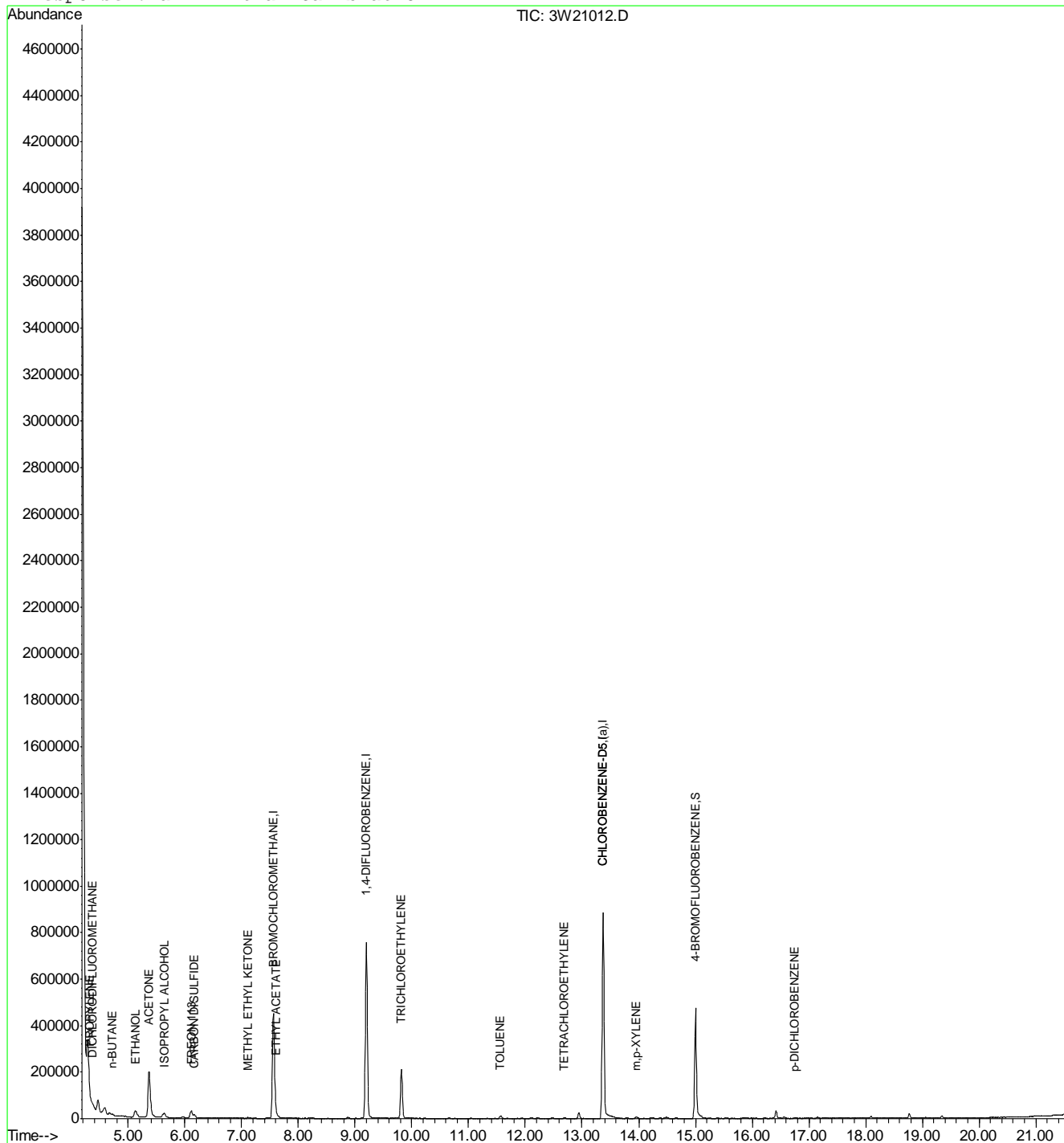
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21012.D
Acq On : 25 Feb 2011 2:57 pm
Sample : JA68565-4
Misc : MS8536,V3W829,40,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 15:49 2011

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

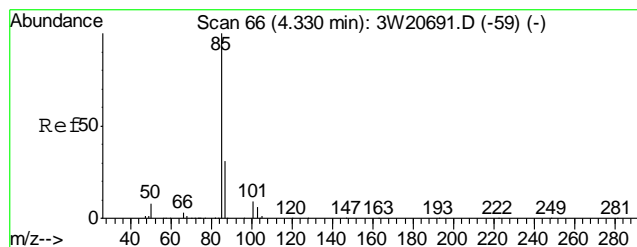


3W21012.D M3W821.M

Fri Feb 25 15:50:38 2011

MS3W

Page 2



#5

DICHLORODIFLUOROMETHANE

Concen: 0.20 PPBV

RT: 4.38 min Scan# 33

Delta R.T. 0.01 min

Lab File: 3W21012.D

Acq: 25 Feb 2011 2:57 pm

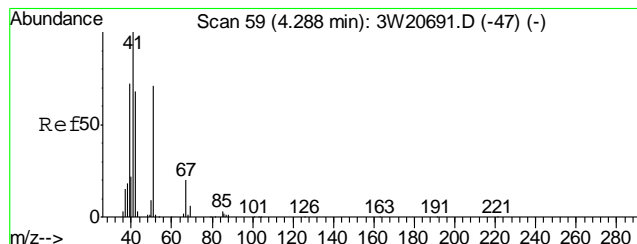
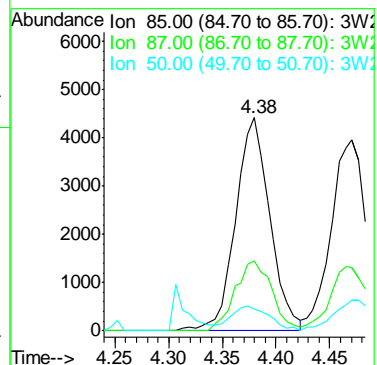
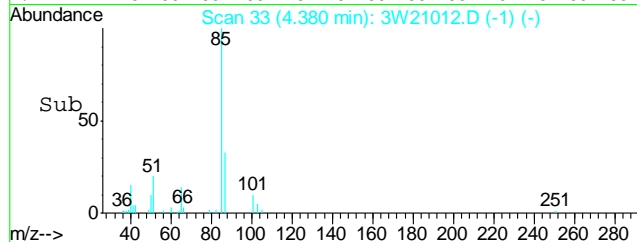
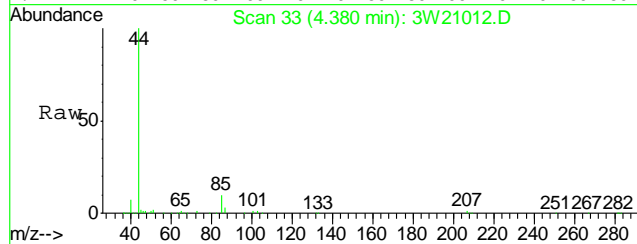
Tgt Ion: 85 Resp: 9811

Ion Ratio Lower Upper

85 100

87 35.1 12.9 52.9

50 13.1 0.0 30.6



#6

PROPYLENE

Concen: 0.33 PPBV

RT: 4.33 min Scan# 25

Delta R.T. 0.00 min

Lab File: 3W21012.D

Acq: 25 Feb 2011 2:57 pm

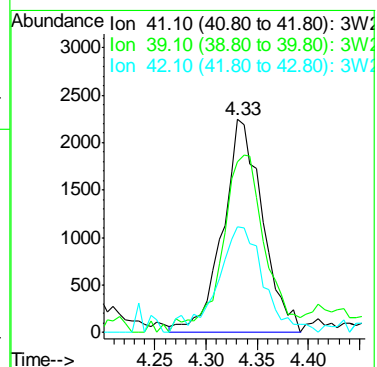
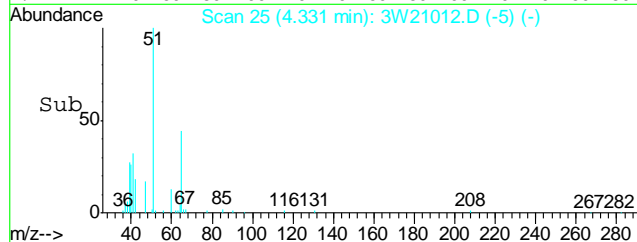
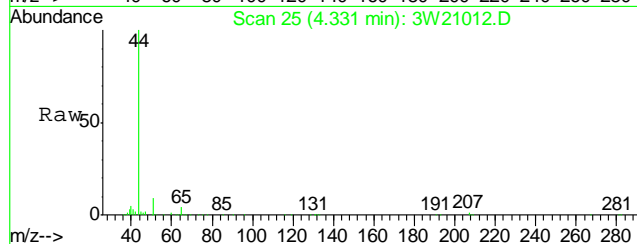
Tgt Ion: 41 Resp: 6044

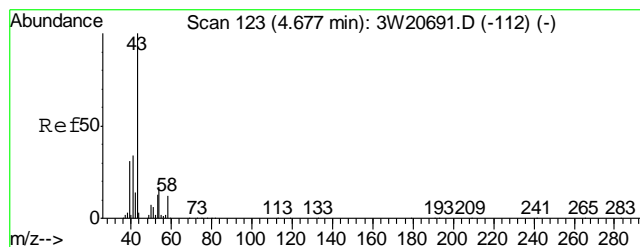
Ion Ratio Lower Upper

41 100

39 90.1 50.7 90.7

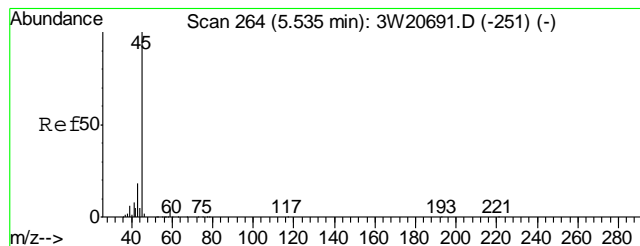
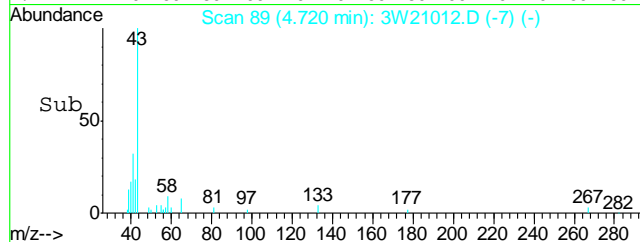
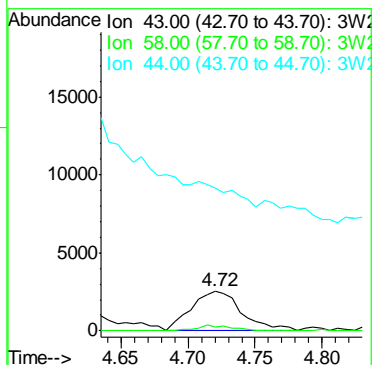
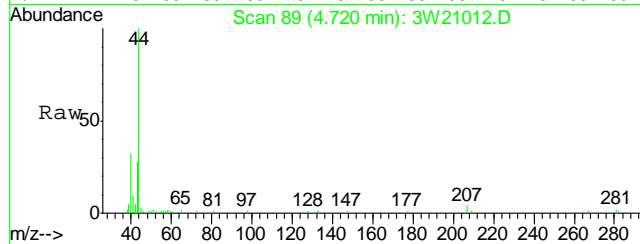
42 55.7 46.0 86.0





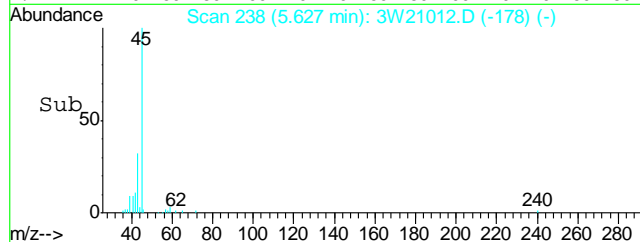
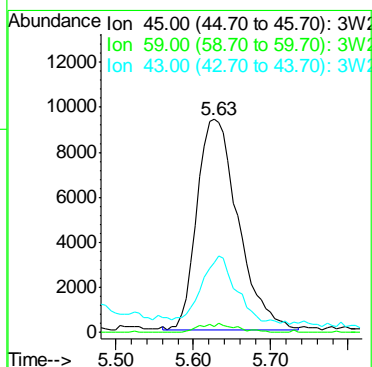
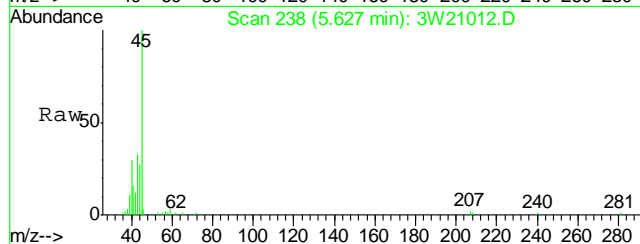
#11
n-BUTANE
Concen: 0.21 PPBV
RT: 4.72 min Scan# 89
Delta R.T. 0.00 min
Lab File: 3W21012.D
Acq: 25 Feb 2011 2:57 pm

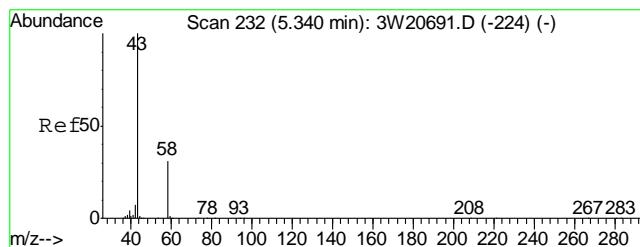
Tgt Ion	Ratio	Lower	Upper
43	100		
58	9.6	0.0	32.1
44	0.0	0.0	23.9



#17
ISOPROPYL ALCOHOL
Concen: 1.29 PPBV m
RT: 5.63 min Scan# 238
Delta R.T. 0.07 min
Lab File: 3W21012.D
Acq: 25 Feb 2011 2:57 pm

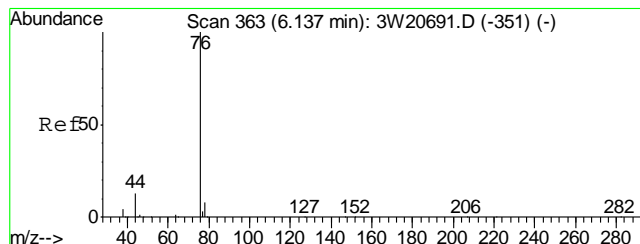
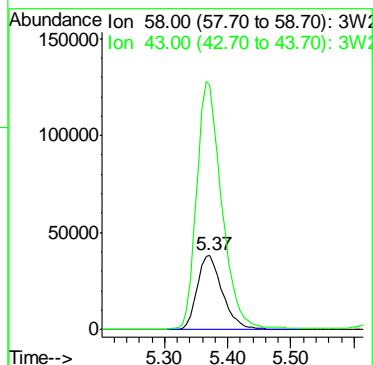
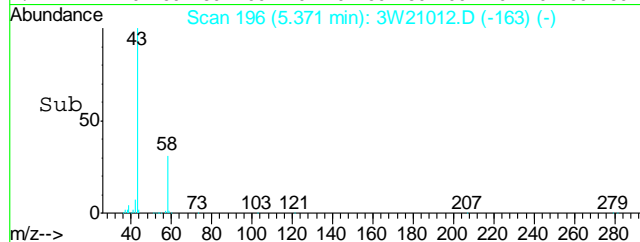
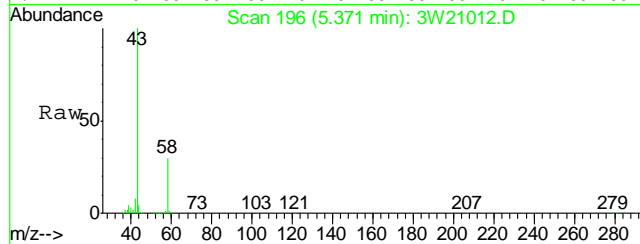
Tgt Ion	Ratio	Lower	Upper
45	100		
59	2.9	0.0	23.7
43	32.7	0.0	37.4





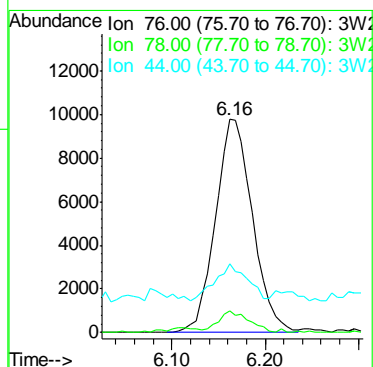
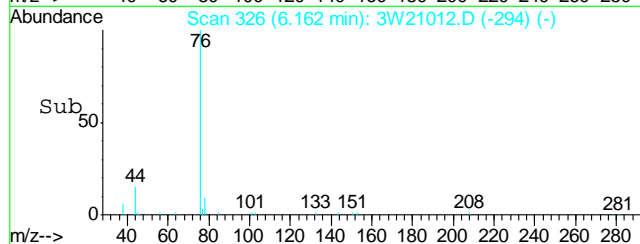
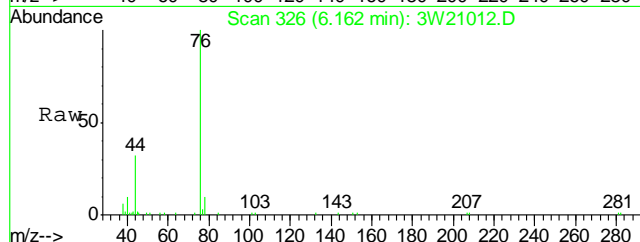
#18
 ACETONE
 Concen: 16.59 PPBV
 RT: 5.37 min Scan# 196
 Delta R.T. 0.00 min
 Lab File: 3W21012.D
 Acq: 25 Feb 2011 2:57 pm

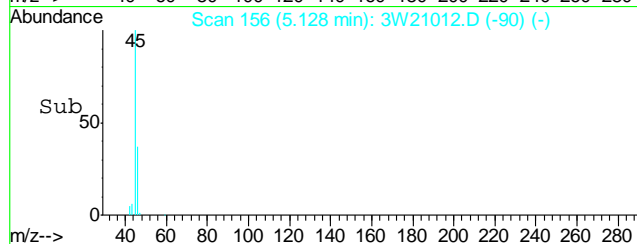
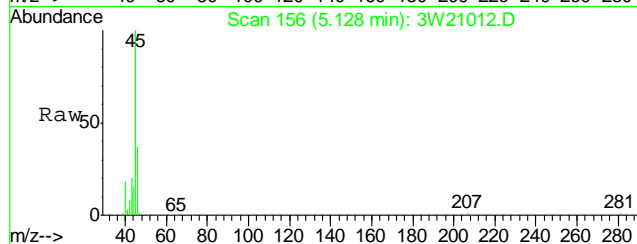
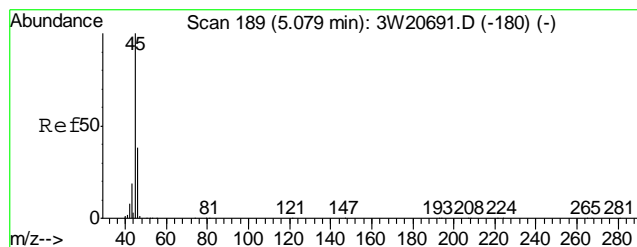
Tgt Ion: 58 Resp: 107126
 Ion Ratio Lower Upper
 58 100
 43 330.7 289.1 329.1#



#23
 CARBON DISULFIDE
 Concen: 0.47 PPBV
 RT: 6.16 min Scan# 326
 Delta R.T. -0.01 min
 Lab File: 3W21012.D
 Acq: 25 Feb 2011 2:57 pm

Tgt Ion: 76 Resp: 27194
 Ion Ratio Lower Upper
 76 100
 78 8.4 0.0 30.5
 44 17.8 0.0 31.7





#24

ETHANOL

Concen: 8.65 PPBV

RT: 5.13 min Scan# 156

Delta R.T. 0.02 min

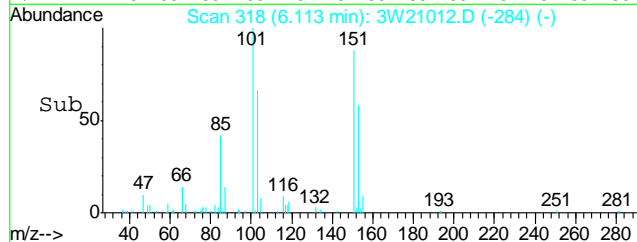
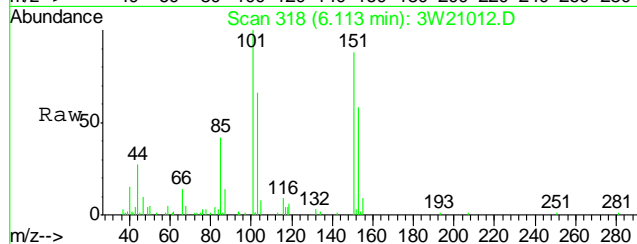
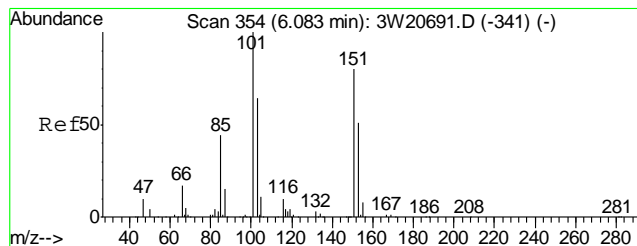
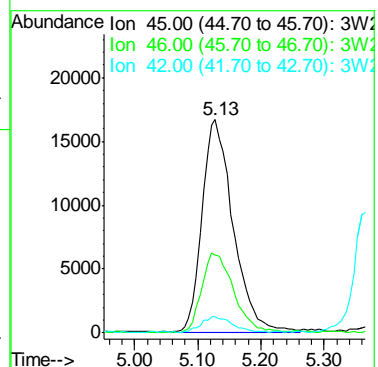
Lab File: 3W21012.D

Acq: 25 Feb 2011 2:57 pm

Tgt Ion: 45 Resp: 57602

Ion	Ratio	Lower	Upper
45	100		
46	38.1	18.2	58.2
42	7.1	0.0	27.7

45	100		
46	38.1	18.2	58.2
42	7.1	0.0	27.7



#28

FREON 113

Concen: 0.41 PPBV

RT: 6.11 min Scan# 318

Delta R.T. -0.00 min

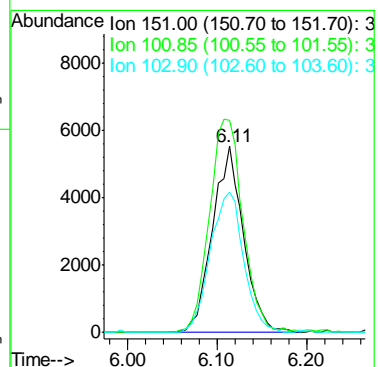
Lab File: 3W21012.D

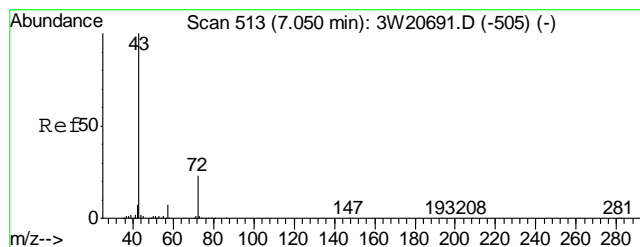
Acq: 25 Feb 2011 2:57 pm

Tgt Ion: 151 Resp: 13275

Ion	Ratio	Lower	Upper
151	100		
101	124.1	95.5	135.5
103	81.2	54.9	94.9

151	100		
101	124.1	95.5	135.5
103	81.2	54.9	94.9





#36

METHYL ETHYL KETONE

Concen: 0.25 PPBV

RT: 7.11 min Scan# 482

Delta R.T. 0.04 min

Lab File: 3W21012.D

Acq: 25 Feb 2011 2:57 pm

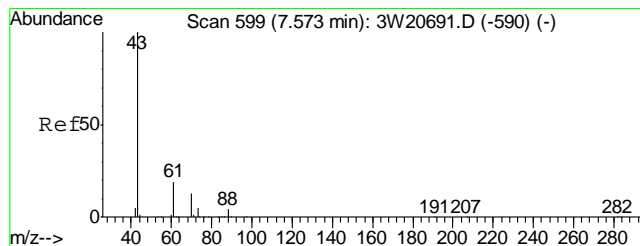
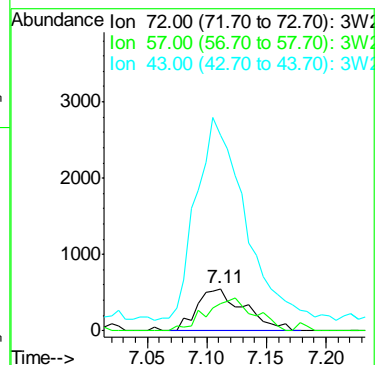
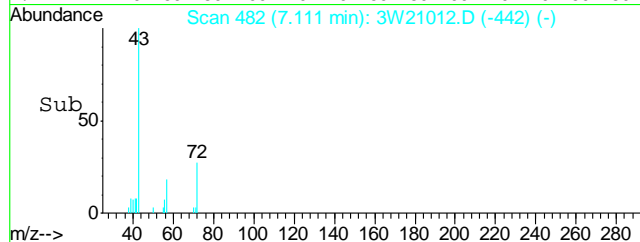
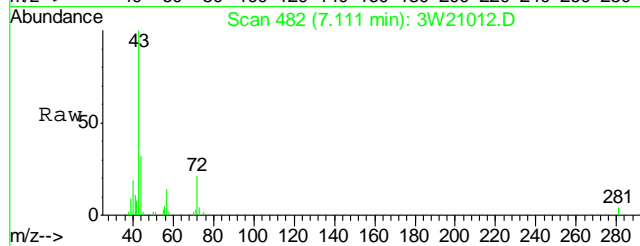
Tgt Ion: 72 Resp: 1526

Ion Ratio Lower Upper

72 100

57 65.7 11.3 51.3#

43 468.1 384.1 424.1#



#39

ETHYL ACETATE

Concen: 0.89 PPBV

RT: 7.60 min Scan# 563

Delta R.T. 0.01 min

Lab File: 3W21012.D

Acq: 25 Feb 2011 2:57 pm

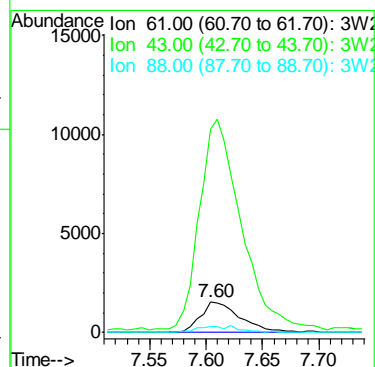
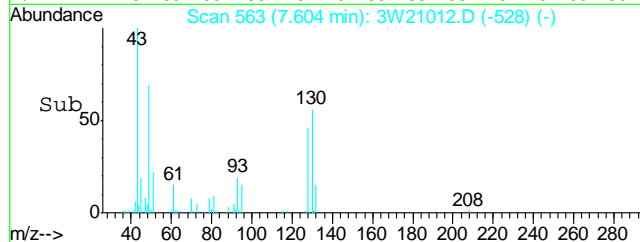
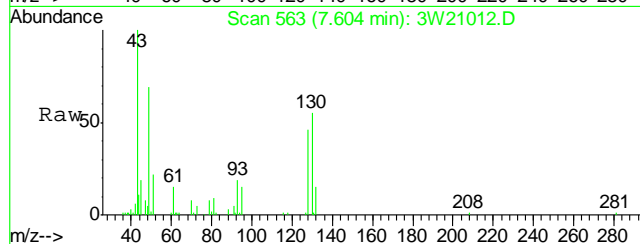
Tgt Ion: 61 Resp: 3777

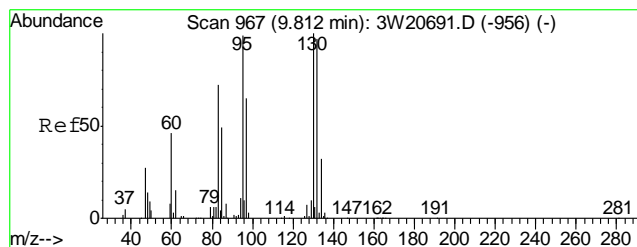
Ion Ratio Lower Upper

61 100

43 749.8 682.3 722.3#

88 21.9 6.1 46.1





#49

TRICHLOROETHYLENE

Concen: 3.87 PPBV

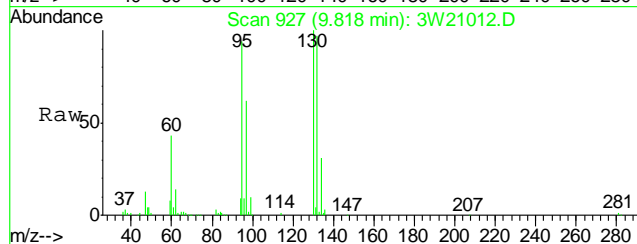
RT: 9.82 min Scan# 927

Delta R.T. -0.01 min

Lab File: 3W21012.D

Acq: 25 Feb 2011 2:57 pm

Tgt Ion:	95	Resp:	90219
Ion	Ratio	Lower	Upper
95	100		
132	99.1	83.4	123.4
130	104.6	87.1	127.1
97	64.3	44.2	84.2



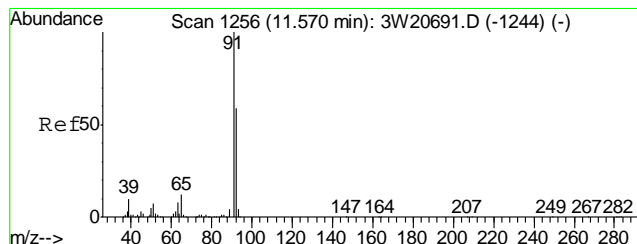
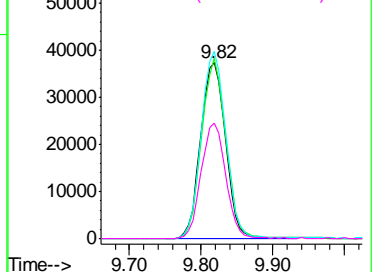
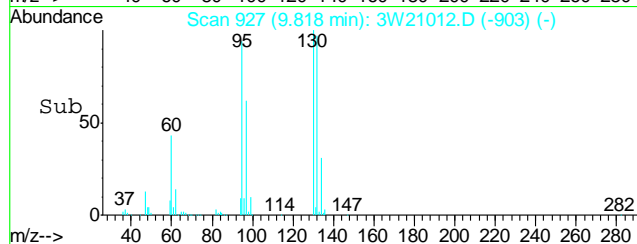
Abundance

Ion 95.00 (94.70 to 95.70): 3W21012.D

Ion 132.00 (131.70 to 132.70): 3W21012.D

Ion 130.00 (129.70 to 130.70): 3W21012.D

Ion 97.00 (96.70 to 97.70): 3W21012.D



#59

TOLUENE

Concen: 0.19 PPBV

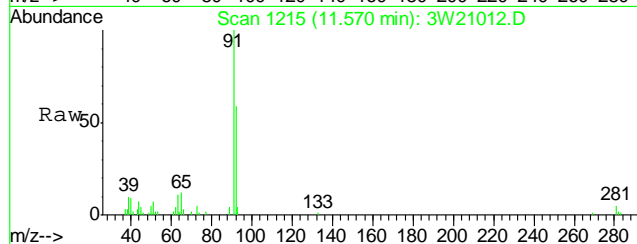
RT: 11.57 min Scan# 1215

Delta R.T. -0.00 min

Lab File: 3W21012.D

Acq: 25 Feb 2011 2:57 pm

Tgt Ion:	92	Resp:	5870
Ion	Ratio	Lower	Upper
92	100		
91	180.2	148.6	188.6
65	20.4	0.0	38.0

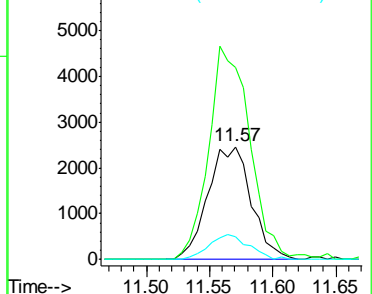
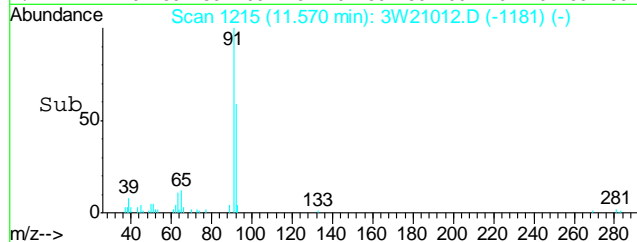


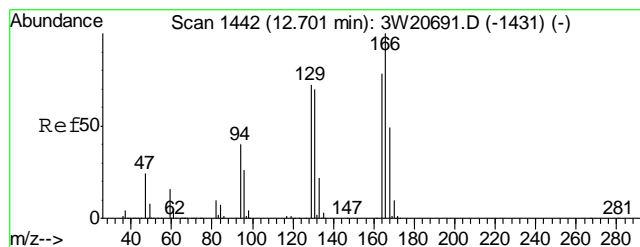
Abundance

Ion 92.00 (91.70 to 92.70): 3W21012.D

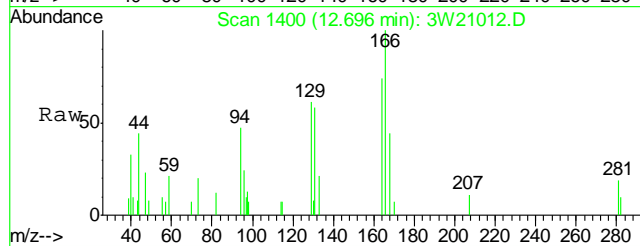
Ion 91.00 (90.70 to 91.70): 3W21012.D

Ion 65.00 (64.70 to 65.70): 3W21012.D

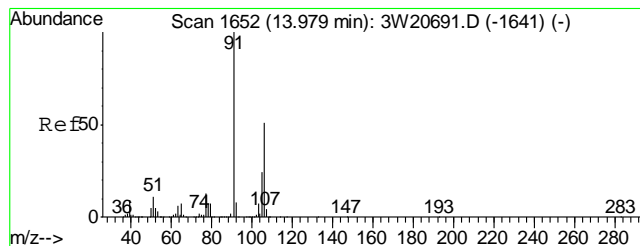
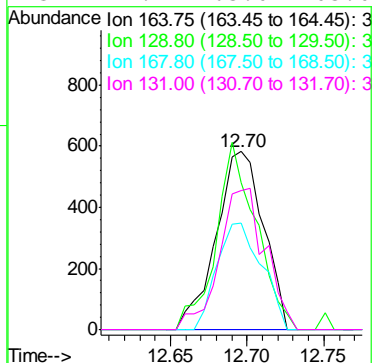
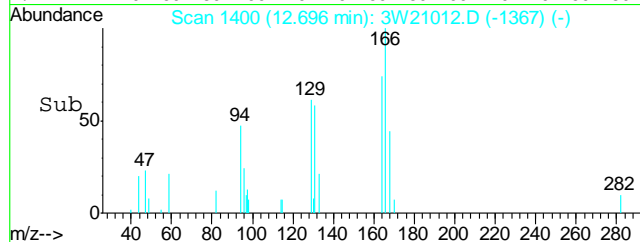




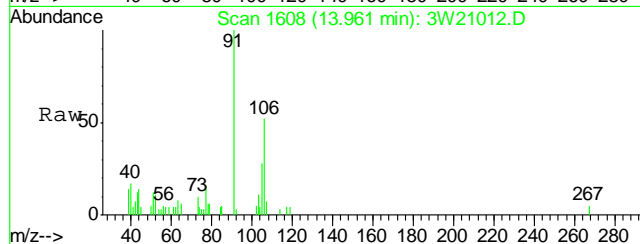
#64
TETRACHLOROETHYLENE
Concen: 0.05 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W21012.D
Acq: 25 Feb 2011 2:57 pm



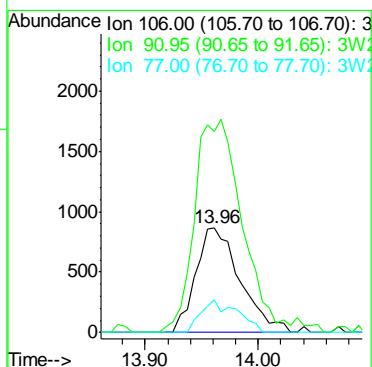
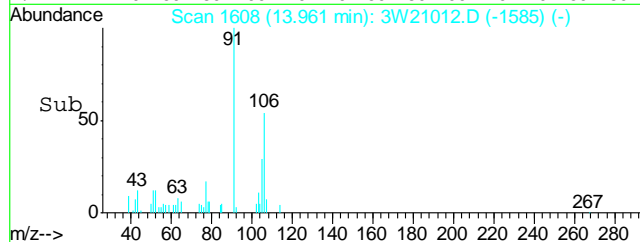
Tgt Ion	Ratio	Lower	Upper
164	100		
129	88.8	65.6	105.6
168	56.6	42.3	82.3
131	77.2	63.0	103.0

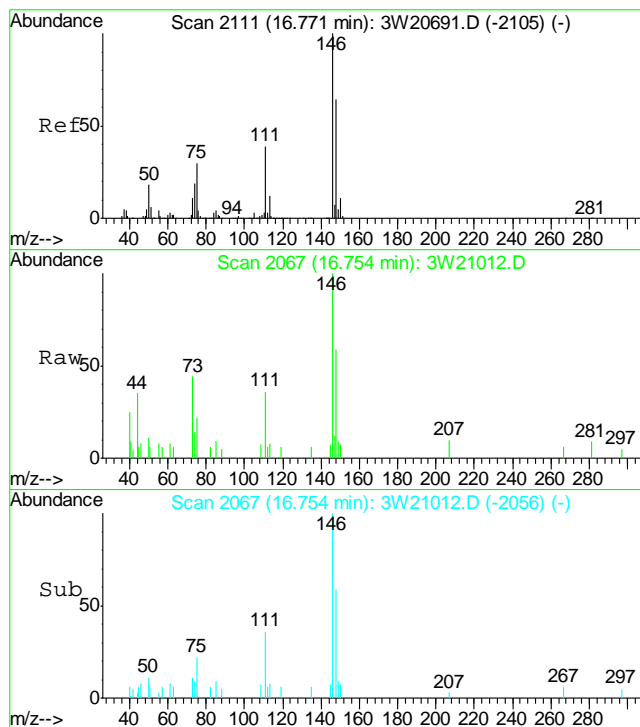


#71
m,p-XYLENE
Concen: 0.11 PPBV
RT: 13.96 min Scan# 1608
Delta R.T. -0.01 min
Lab File: 3W21012.D
Acq: 25 Feb 2011 2:57 pm



Tgt Ion	Ratio	Lower	Upper
106	100		
91	193.6	176.1	216.1
77	31.3	4.4	44.4





#88

p-DICHLOROBENZENE

Concen: 0.10 PPBV

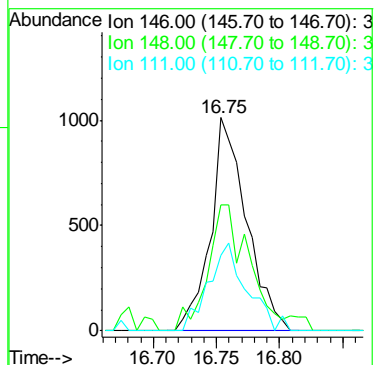
RT: 16.75 min Scan# 2067

Delta R.T. -0.01 min

Lab File: 3W21012.D

Acq: 25 Feb 2011 2:57 pm

Tgt Ion	146	Resp	1993
Ion Ratio	Lower	Upper	
146	100		
148	71.3	44.2	84.2
111	44.0	14.5	54.5



6.16

6

Manual Integration Approval Summary

Sample Number: JA68565-4

Method: TO-15

Lab FileID: 3W21012.D

Analyst approved: 02/25/11 16:01 Yunxia Chen

Injection Time: 02/25/11 14:57

Supervisor approved: 03/02/11 16:37 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
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Isopropyl Alcohol	67-63-0		5.63	Poorly defined baseline
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6.1.6.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_V3W\V3W828\3W20987.D Vial: 6
 Acq On : 24 Feb 2011 7:36 pm Operator: yunxiac
 Sample : ja68565-5 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:10:53 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	151771	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	721159	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	353742	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	353742	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.01 95 206786 5.50 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 110.00%

Target Compounds

Qvalue

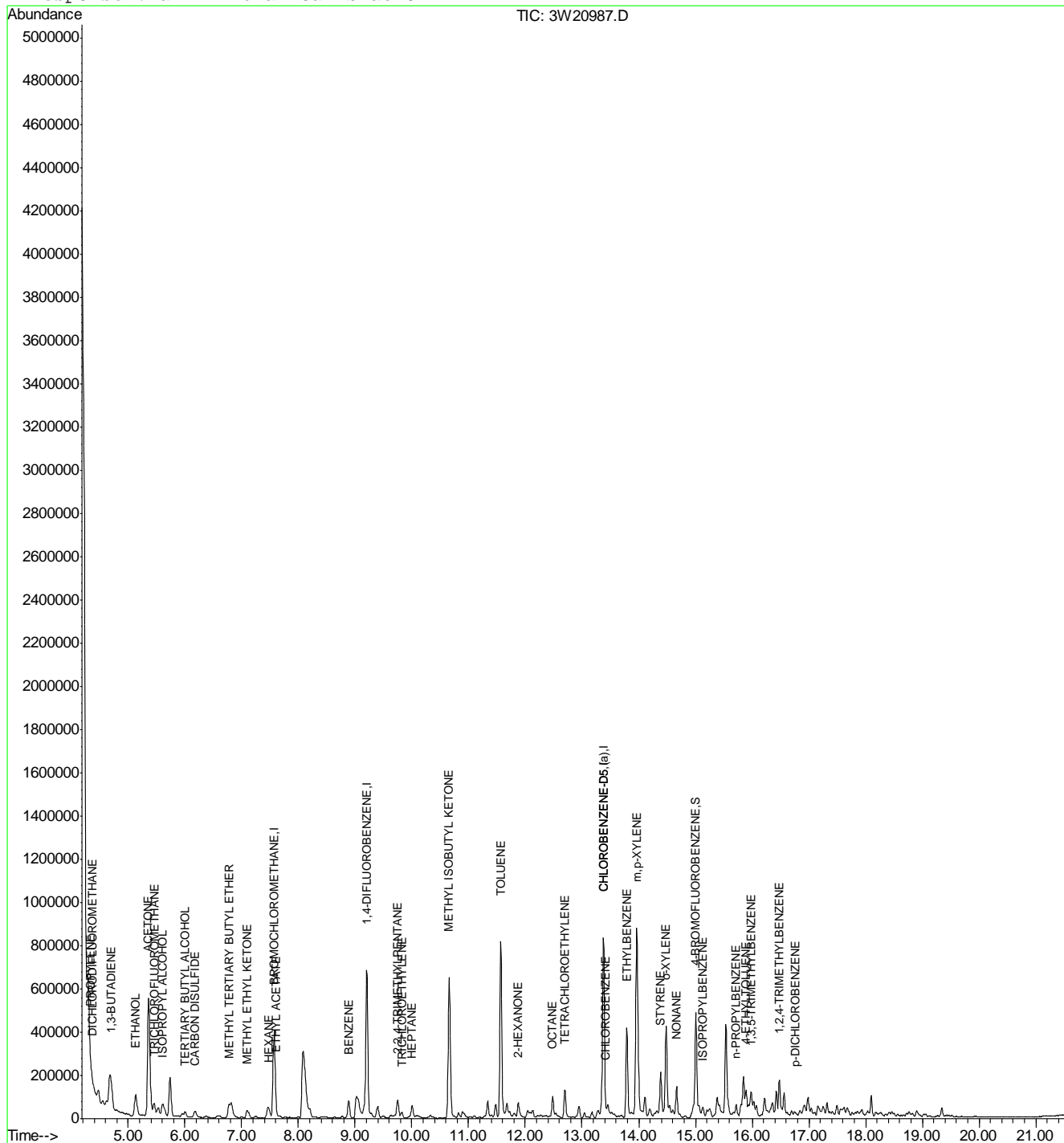
5) DICHLORODIFLUOROMETHANE	4.38	85	4697	0.11	PPBV	92
6) PROPYLENE	4.34	41	24883	1.48	PPBV	88
10) 1,3-BUTADIENE	4.70	54	67319	4.65	PPBV #	56
16) TRICHLOROFLUOROMETHANE	5.46	101	60640	1.39	PPBV	99
17) ISOPROPYL ALCOHOL	5.61	45	85245	3.44	PPBV	88
18) ACETONE	5.36	58	312633	52.15	PPBV #	88
23) CARBON DISULFIDE	6.17	76	51677	0.97	PPBV	90
24) ETHANOL	5.13	45	188344	30.47	PPBV	99
30) TERTIARY BUTYL ALCOHOL	6.00	59	22078	0.78	PPBV	76
31) METHYL TERTIARY BUTYL ETHER	6.78	73	63535	1.71	PPBV #	64
33) HEXANE	7.49	57	16586	0.61	PPBV	93
36) METHYL ETHYL KETONE	7.09	72	12996	2.32	PPBV #	72
39) ETHYL ACETATE	7.61	61	3683	0.94	PPBV #	87
46) BENZENE	8.89	78	86422	2.00	PPBV	97
49) TRICHLOROETHYLENE	9.82	95	11354	0.54	PPBV	94
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	86255	1.17	PPBV	82
54) HEPTANE	10.00	43	33822	1.13	PPBV	93
57) METHYL ISOBUTYL KETONE	10.66	58	232221	24.01	PPBV	91
59) TOLUENE	11.57	92	454053	16.41	PPBV	99
63) 2-HEXANONE	11.89	58	6862	0.54	PPBV #	1
64) TETRACHLOROETHYLENE	12.70	164	33457	1.33	PPBV	98
67) OCTANE	12.48	43	56550	1.43	PPBV	91
69) CHLOROBENZENE	13.43	112	7035	0.20	PPBV	88
70) ETHYLBENZENE	13.79	91	373755	6.69	PPBV	99
71) m,p-XYLENE	13.97	106	417896	20.05	PPBV	99
72) o-XYLENE	14.48	106	155867	7.96	PPBV	97
73) STYRENE	14.39	104	128102	5.57	PPBV	97
74) NONANE	14.67	43	69733	2.14	PPBV	93
79) ISOPROPYLBENZENE	15.13	105	37543	0.70	PPBV	97
81) n-PROPYLBENZENE	15.71	120	13525	1.08	PPBV	99
82) 4-ETHYLTOLUENE	15.89	105	48444	1.19	PPBV	93
83) 1,3,5-TRIMETHYLBENZENE	15.99	105	55667	1.62	PPBV	97
85) 1,2,4-TRIMETHYLBENZENE	16.48	105	112276	3.82	PPBV #	29
88) p-DICHLOROBENZENE	16.77	146	5176	0.28	PPBV #	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20987.D M3W821.M Thu Mar 10 12:30:56 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_V3W\V3W828\3W20987.D Vial: 6
Acq On : 24 Feb 2011 7:36 pm Operator: yunxiac
Sample : ja68565-5 Inst : MS3W
Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 10 12:30 2011 Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Mar 10 08:27:02 2011
Response via : Initial Calibration

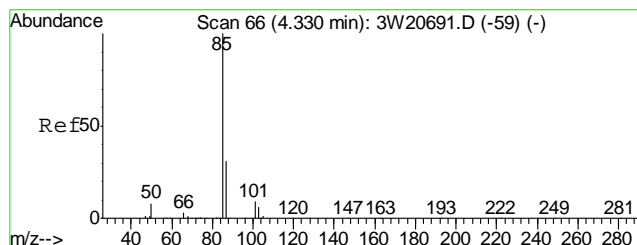


3W20987.D M3W821.M

Thu Mar 10 12:30:56 2011

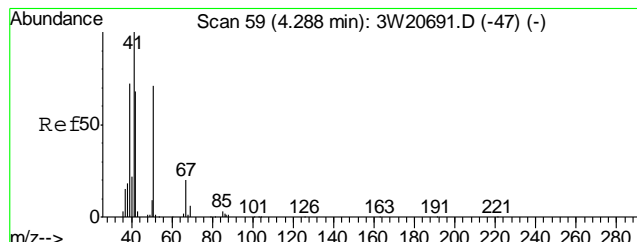
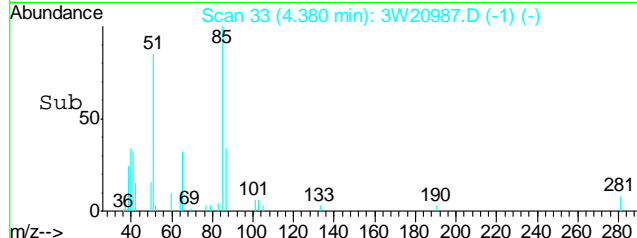
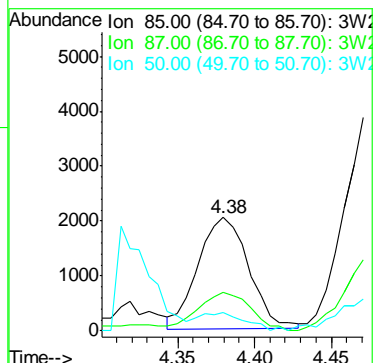
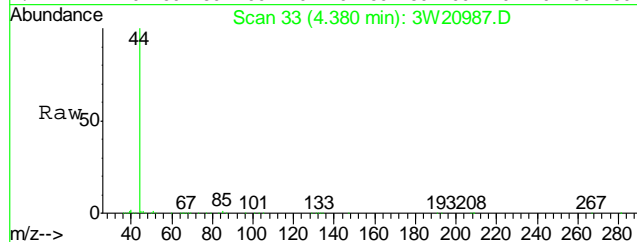
MS3W

Page 2



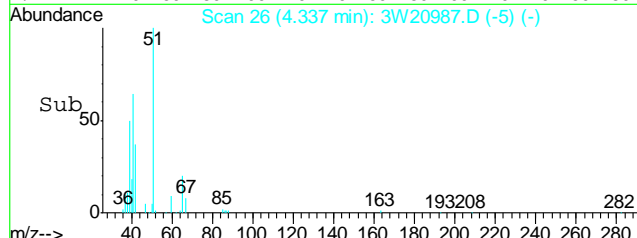
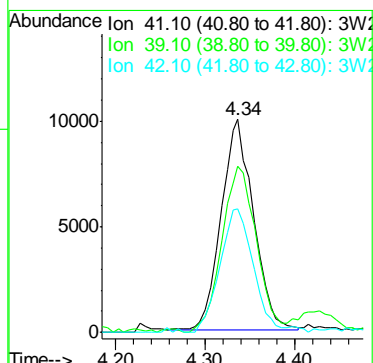
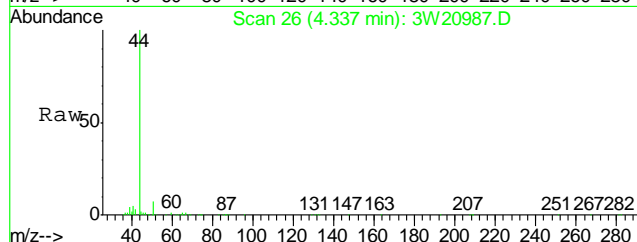
#5
 DICHLORODIFLUOROMETHANE
 Concen: 0.11 PPBV
 RT: 4.38 min Scan# 33
 Delta R.T. 0.01 min
 Lab File: 3W20987.D
 Acq: 24 Feb 2011 7:36 pm

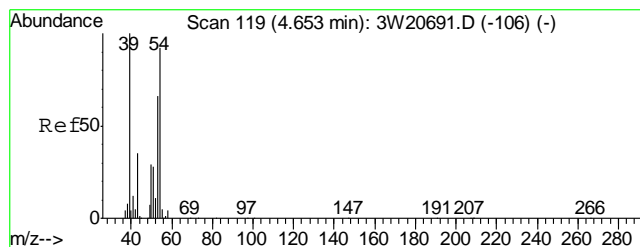
Tgt Ion:	85	Resp:	4697
Ion Ratio	Lower	Upper	
85	100		
87	36.4	12.9	52.9
50	15.3	0.0	30.6



#6
 PROPYLENE
 Concen: 1.48 PPBV
 RT: 4.34 min Scan# 26
 Delta R.T. 0.01 min
 Lab File: 3W20987.D
 Acq: 24 Feb 2011 7:36 pm

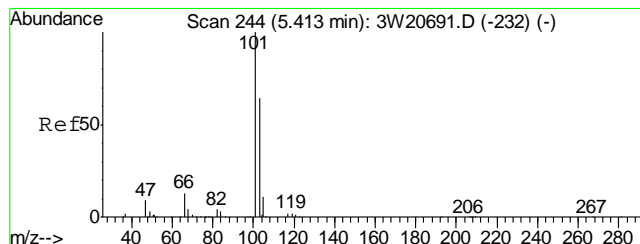
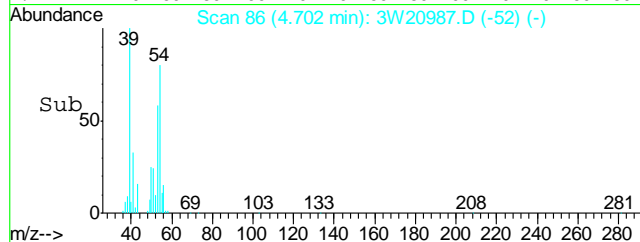
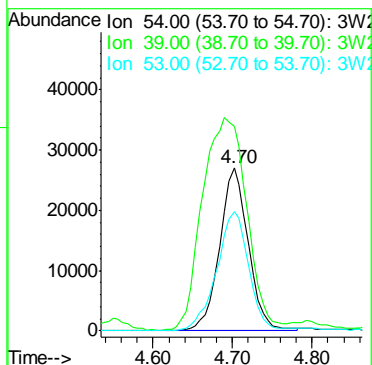
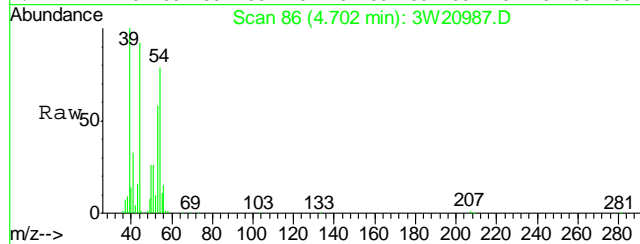
Tgt Ion:	41	Resp:	24883
Ion Ratio	Lower	Upper	
41	100		
39	85.2	50.7	90.7
42	60.9	46.0	86.0





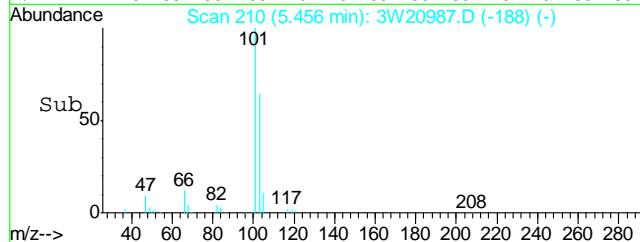
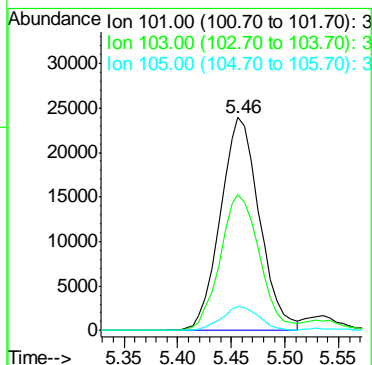
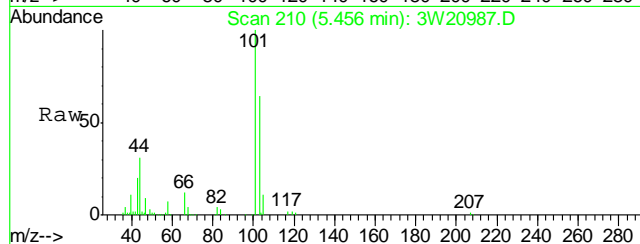
#10
1,3-BUTADIENE
Concen: 4.65 PPBV
RT: 4.70 min Scan# 86
Delta R.T. 0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

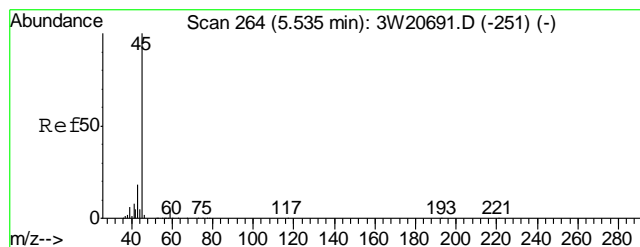
Tgt Ion	Ratio	Lower	Upper
54	100		
39	203.2	111.0	151.0#
53	82.2	51.8	91.8



#16
TRICHLOROFLUOROMETHANE
Concen: 1.39 PPBV
RT: 5.46 min Scan# 210
Delta R.T. 0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

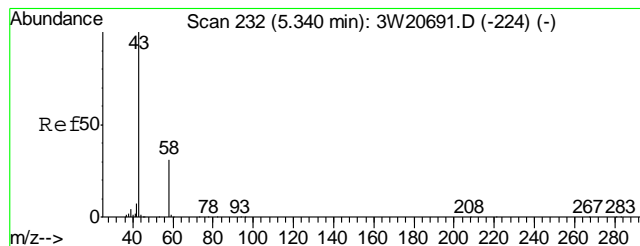
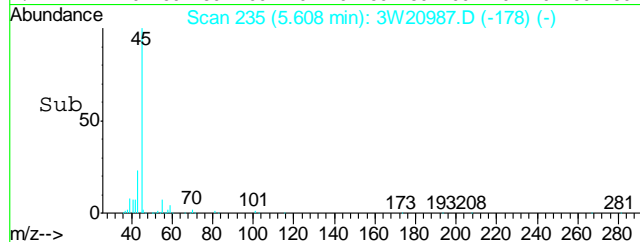
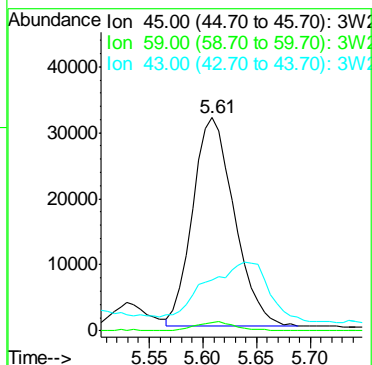
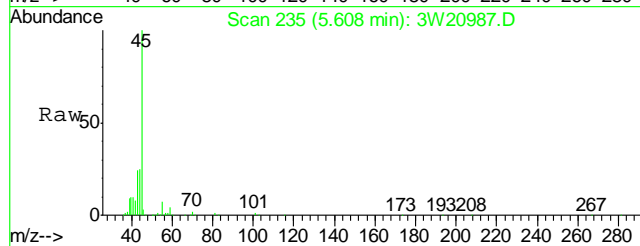
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.4	45.5	85.5
105	10.9	0.0	30.6





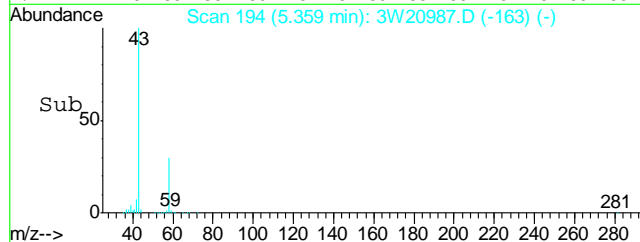
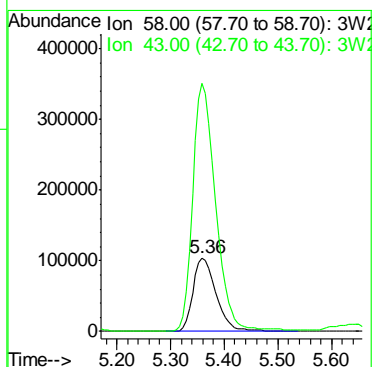
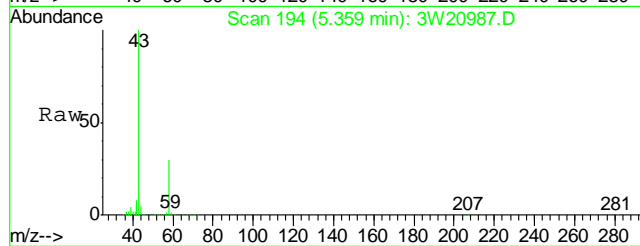
#17
ISOPROPYL ALCOHOL
Concen: 3.44 PPBV
RT: 5.61 min Scan# 235
Delta R.T. 0.05 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

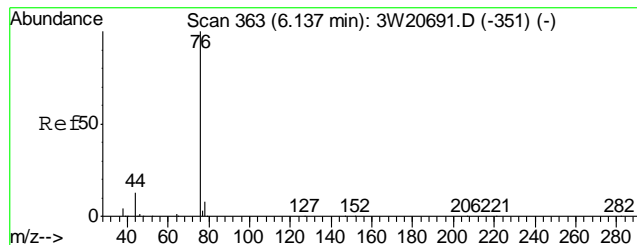
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.8	0.0	23.7
43	23.9	0.0	37.4



#18
ACETONE
Concen: 52.15 PPBV
RT: 5.36 min Scan# 194
Delta R.T. -0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

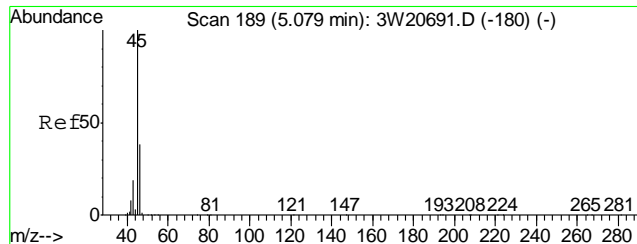
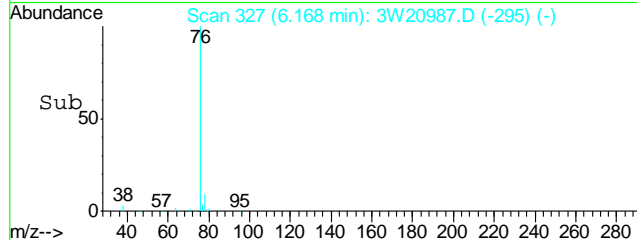
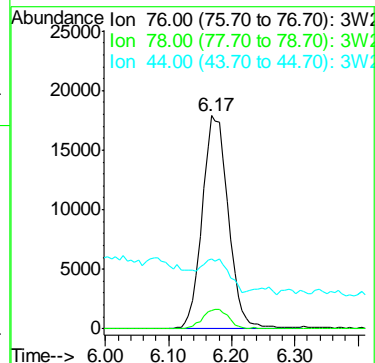
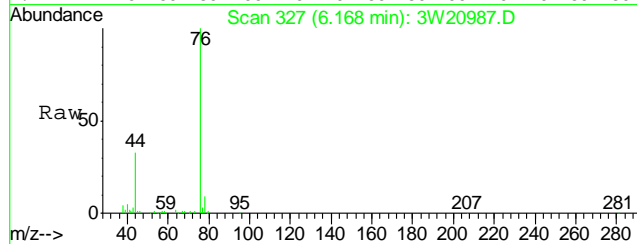
Tgt Ion	Ratio	Lower	Upper
58	100		
43	334.1	289.1	329.1#





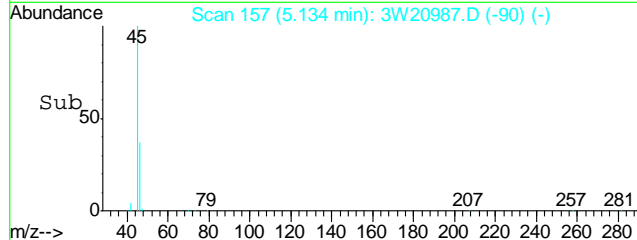
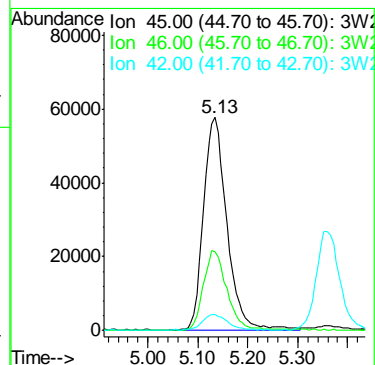
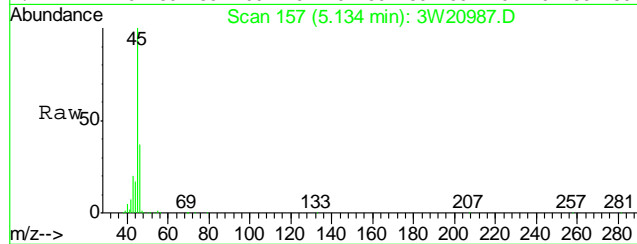
#23
CARBON DISULFIDE
Concen: 0.97 PPBV
RT: 6.17 min Scan# 327
Delta R.T. -0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

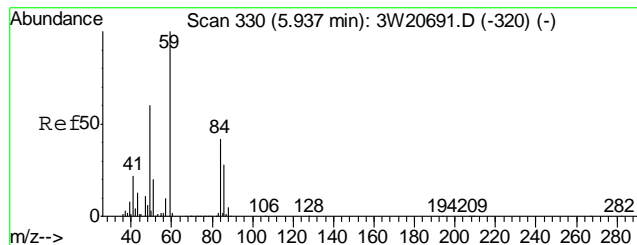
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	30.5
44	17.9	0.0	31.7



#24
ETHANOL
Concen: 30.47 PPBV
RT: 5.13 min Scan# 157
Delta R.T. 0.02 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

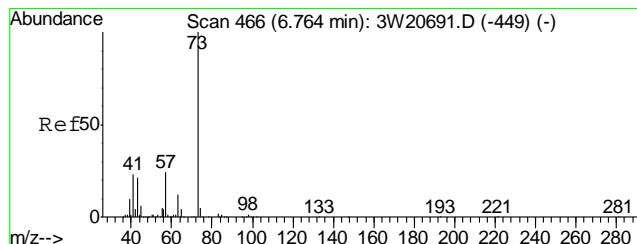
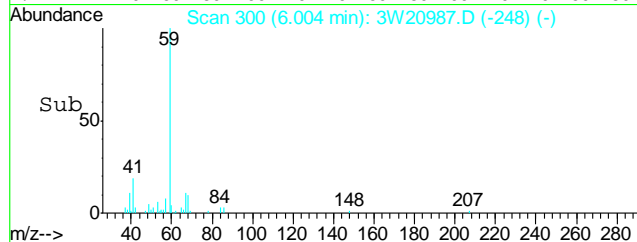
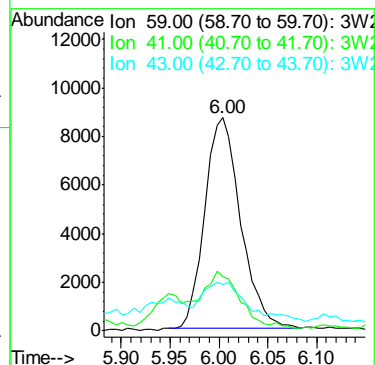
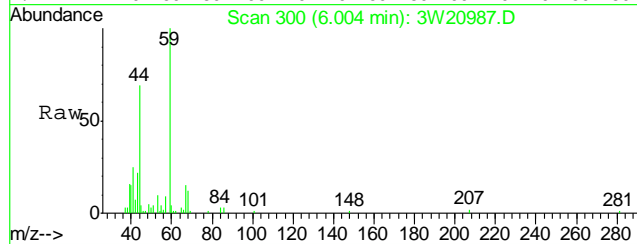
Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.4	18.2	58.2
42	7.8	0.0	27.7





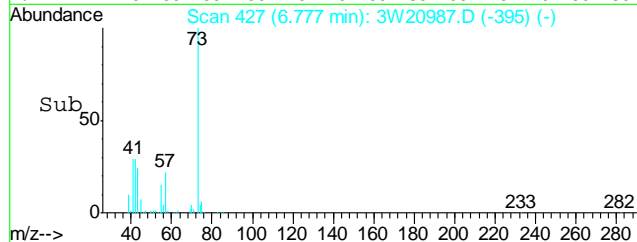
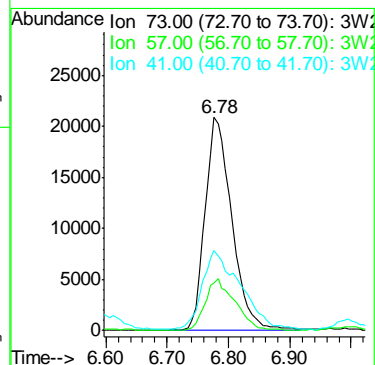
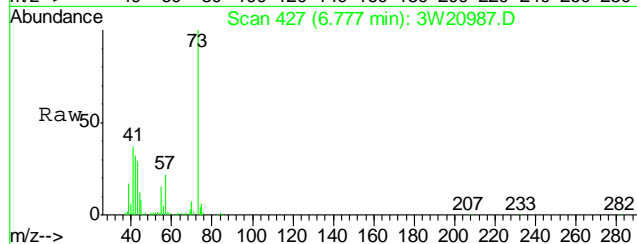
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.78 PPBV
RT: 6.00 min Scan# 300
Delta R.T. 0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

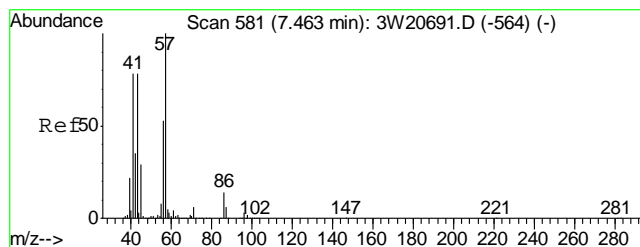
Tgt Ion	Ratio	Lower	Upper
59	100		
41	28.4	0.0	38.0
43	22.8	0.0	33.0



#31
METHYL TERTIARY BUTYL ETHER
Concen: 1.71 PPBV
RT: 6.78 min Scan# 427
Delta R.T. -0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

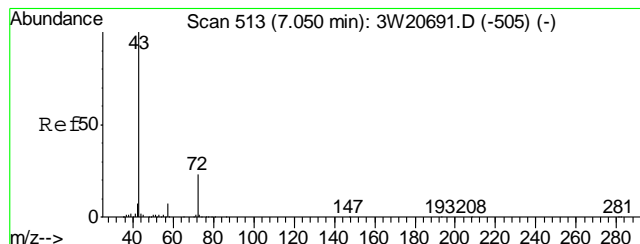
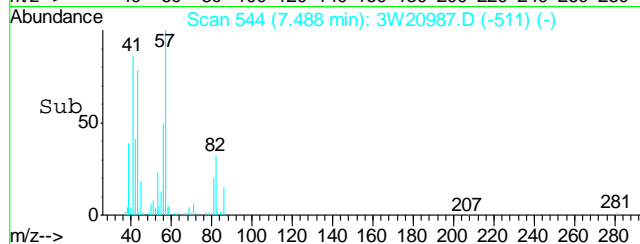
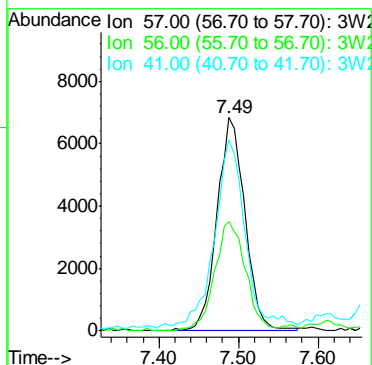
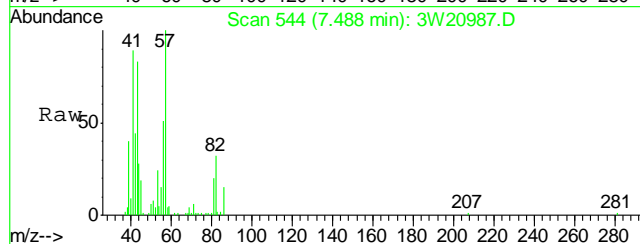
Tgt Ion	Ratio	Lower	Upper
73	100		
57	26.9	3.0	43.0
41	53.0	1.6	41.6#





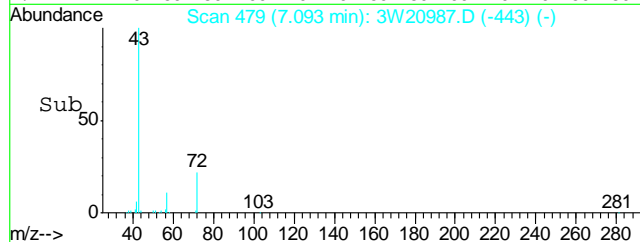
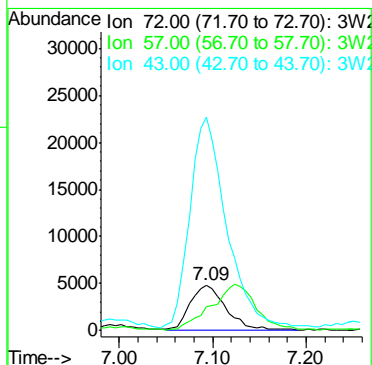
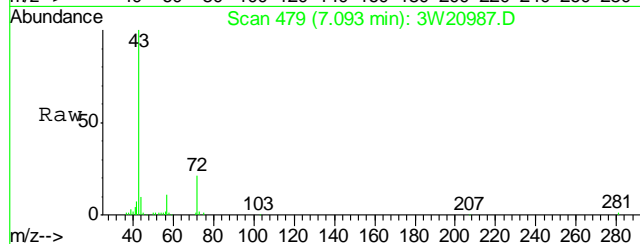
#33
 HEXANE
 Concen: 0.61 PPBV
 RT: 7.49 min Scan# 544
 Delta R.T. -0.00 min
 Lab File: 3W20987.D
 Acq: 24 Feb 2011 7:36 pm

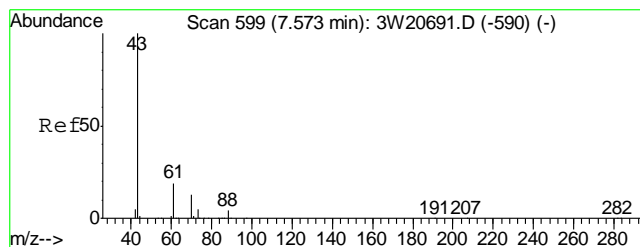
Tgt Ion	Resp	Lower	Upper
57	100		
56	57.0	30.5	70.5
41	93.2	79.2	119.2



#36
 METHYL ETHYL KETONE
 Concen: 2.32 PPBV
 RT: 7.09 min Scan# 479
 Delta R.T. 0.02 min
 Lab File: 3W20987.D
 Acq: 24 Feb 2011 7:36 pm

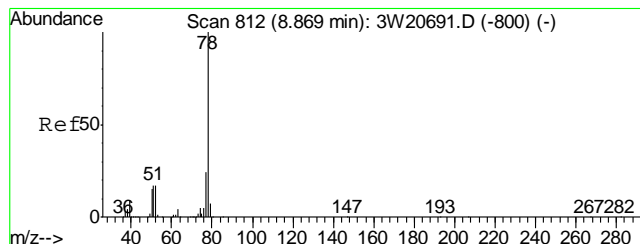
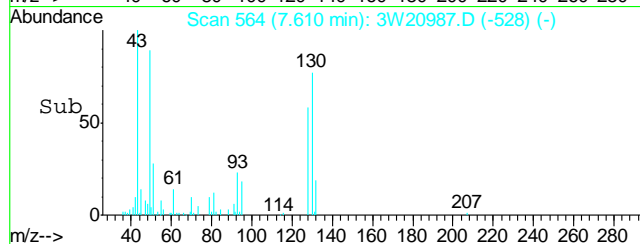
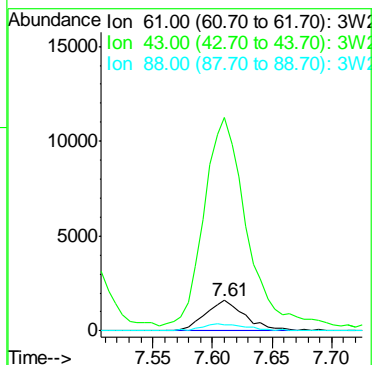
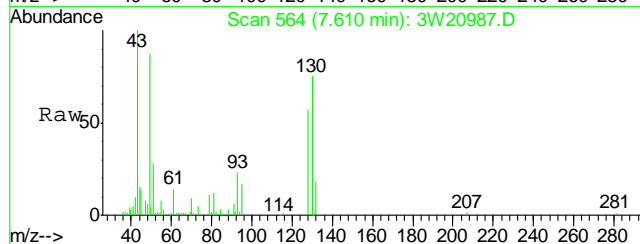
Tgt Ion	Resp	Lower	Upper
72	100		
57	51.9	11.3	51.3#
43	470.0	384.1	424.1#





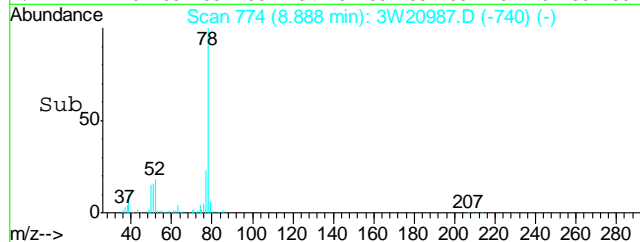
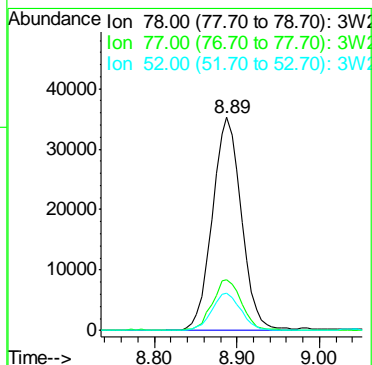
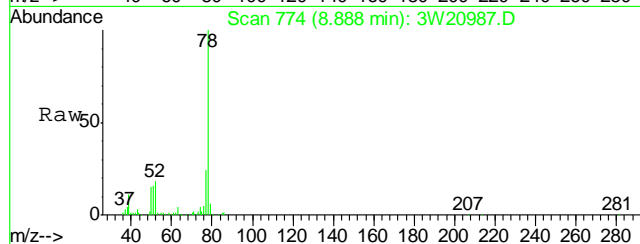
#39
ETHYL ACETATE
Concen: 0.94 PPBV
RT: 7.61 min Scan# 564
Delta R.T. 0.02 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

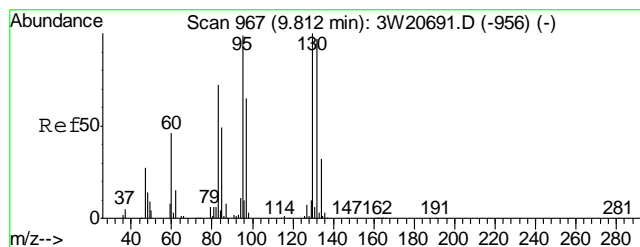
Tgt Ion	Resp	Lower	Upper
61	3683		
43	747.4	682.3	722.3#
88	24.0	6.1	46.1



#46
BENZENE
Concen: 2.00 PPBV
RT: 8.89 min Scan# 774
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

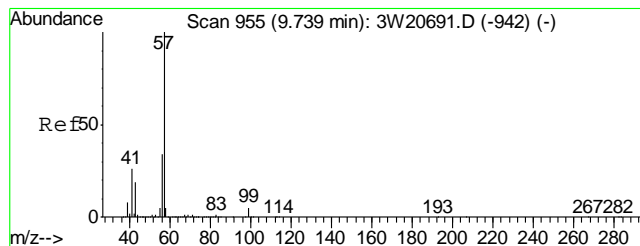
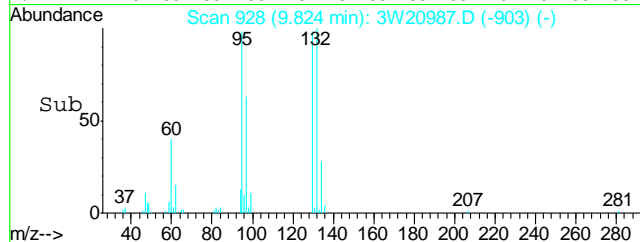
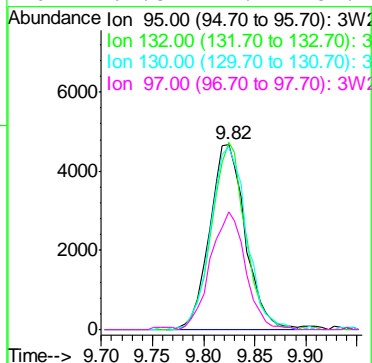
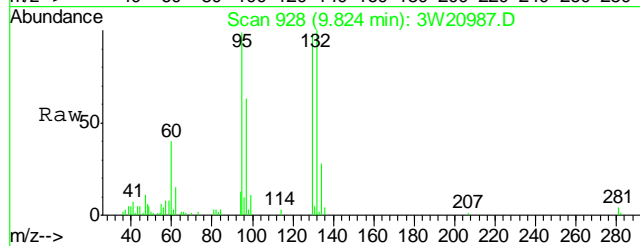
Tgt Ion	Resp	Lower	Upper
78	86422		
77	24.1	3.6	43.6
52	17.7	0.0	35.5





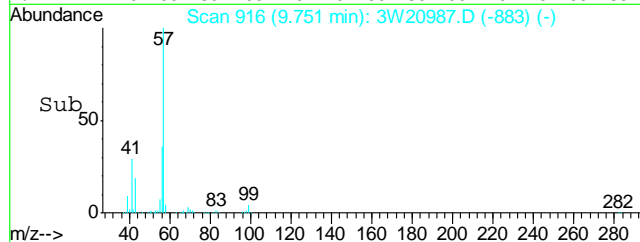
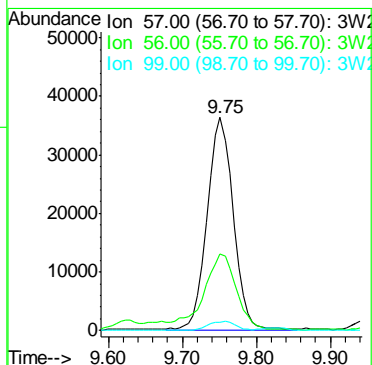
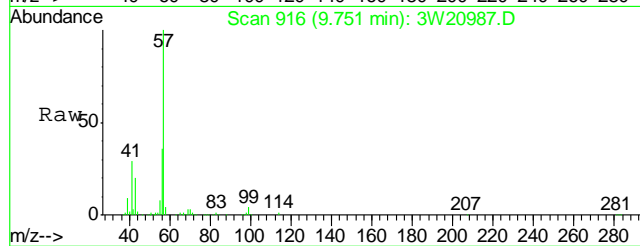
#49
TRICHLOROETHYLENE
Concen: 0.54 PPBV
RT: 9.82 min Scan# 928
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

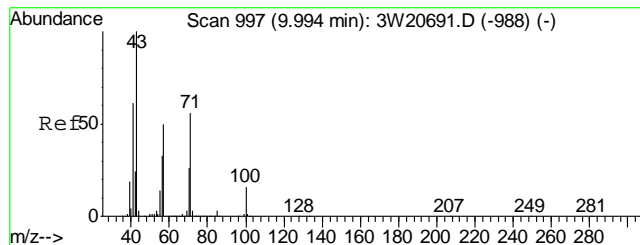
Tgt Ion:	95	Resp:	11354
Ion Ratio	Lower	Upper	
95	100		
132	95.6	83.4	123.4
130	99.6	87.1	127.1
97	62.5	44.2	84.2



#52
2,2,4-TRIMETHYLPENTANE
Concen: 1.17 PPBV
RT: 9.75 min Scan# 916
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

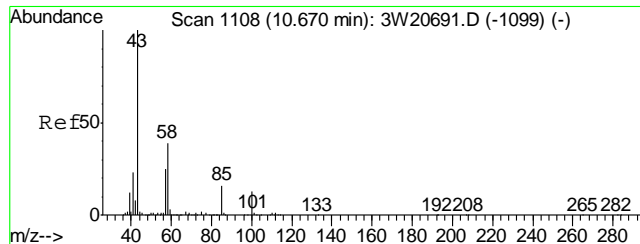
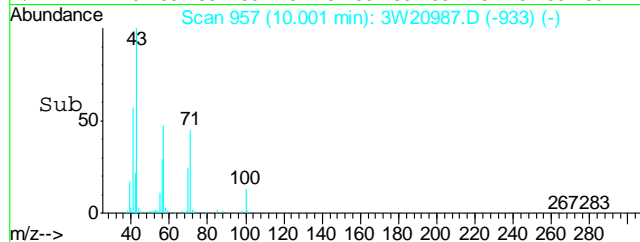
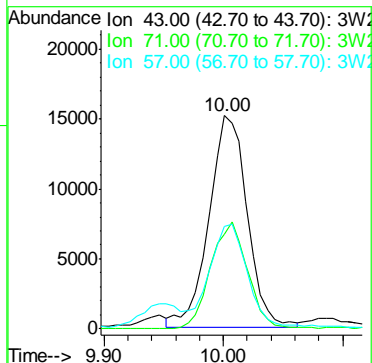
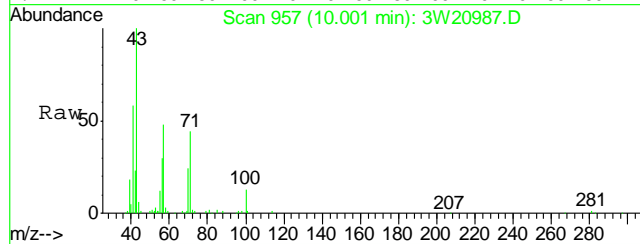
Tgt Ion:	57	Resp:	86255
Ion Ratio	Lower	Upper	
57	100		
56	45.0	13.2	53.2
99	4.7	0.0	25.2





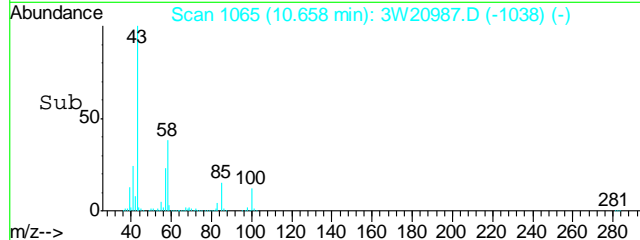
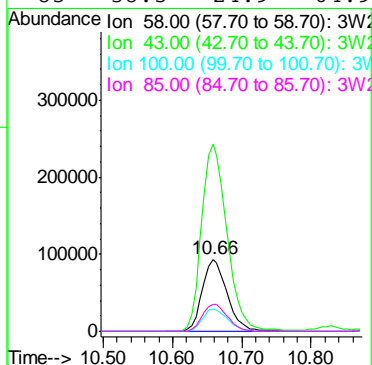
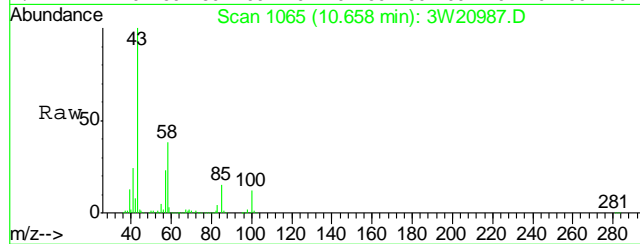
#54
HEPTANE
Concen: 1.13 PPBV
RT: 10.00 min Scan# 957
Delta R.T. -0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

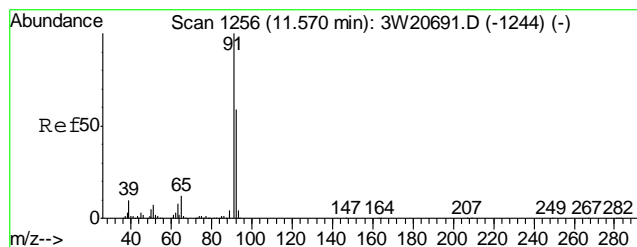
Tgt Ion	Ratio	Lower	Upper
43	100		
71	49.1	36.1	76.1
57	48.9	32.3	72.3



#57
METHYL ISOBUTYL KETONE
Concen: 24.01 PPBV
RT: 10.66 min Scan# 1065
Delta R.T. -0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

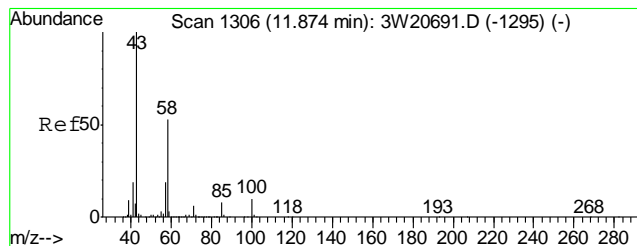
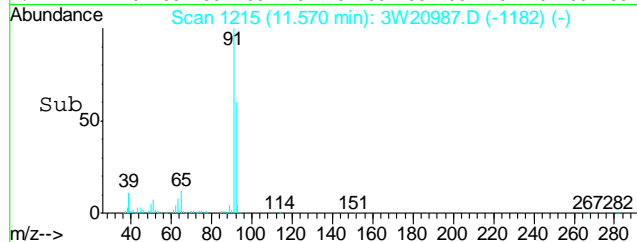
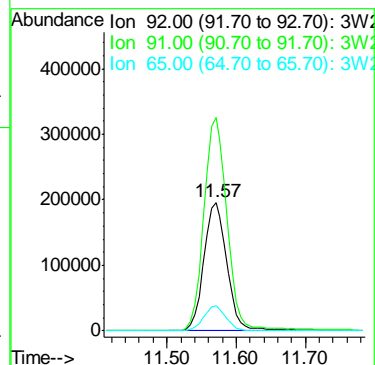
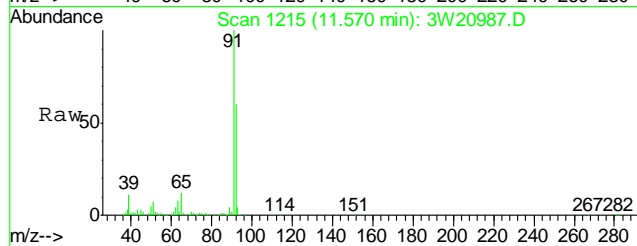
Tgt Ion	Ratio	Lower	Upper
58	100		
43	266.4	229.3	269.3
100	31.4	14.1	54.1
85	38.5	24.9	64.9





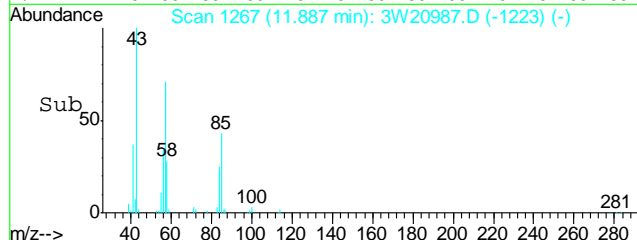
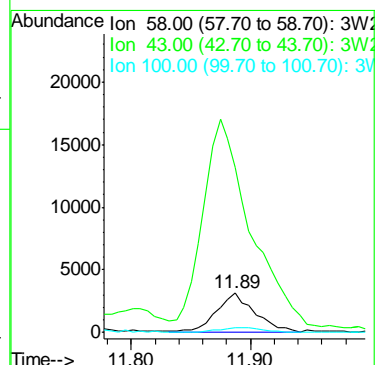
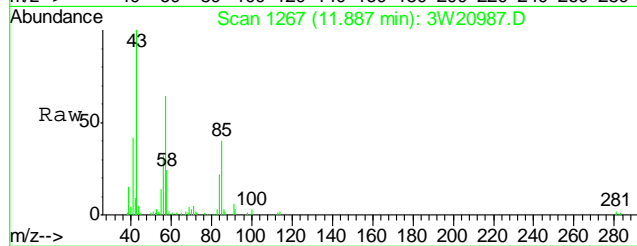
#59
TOLUENE
Concen: 16.41 PPBV
RT: 11.57 min Scan# 1215
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

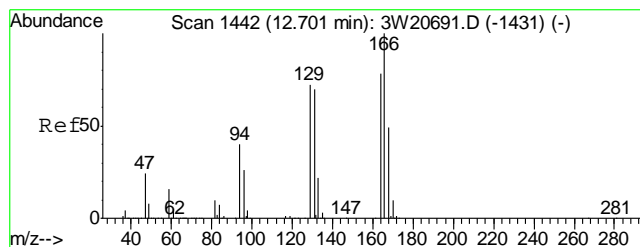
Tgt Ion:	92	Resp:	454053
Ion Ratio	Lower	Upper	
92	100		
91	168.0	148.6	188.6
65	19.1	0.0	38.0



#63
2-HEXANONE
Concen: 0.54 PPBV
RT: 11.89 min Scan# 1267
Delta R.T. 0.02 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

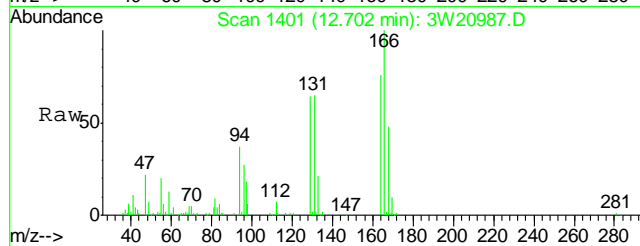
Tgt Ion:	58	Resp:	6862
Ion Ratio	Lower	Upper	
58	100		
43	679.5	166.4	206.4#
100	14.0	0.0	39.6





#64
TETRACHLOROETHYLENE
Concen: 1.33 PPBV
RT: 12.70 min Scan# 1401
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

Tgt Ion	Ratio	Lower	Upper
164	100		
129	88.1	65.6	105.6
168	63.9	42.3	82.3
131	84.1	63.0	103.0



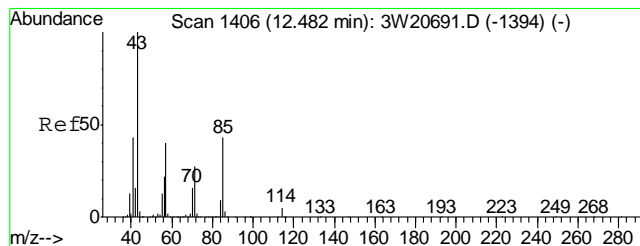
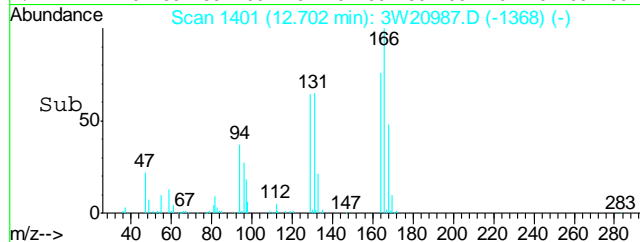
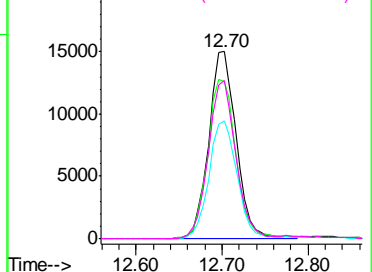
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

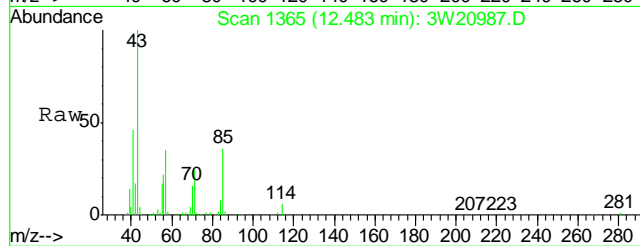
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#67
OCTANE
Concen: 1.43 PPBV
RT: 12.48 min Scan# 1365
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
85	36.0	24.9	64.9
57	36.9	19.9	59.9

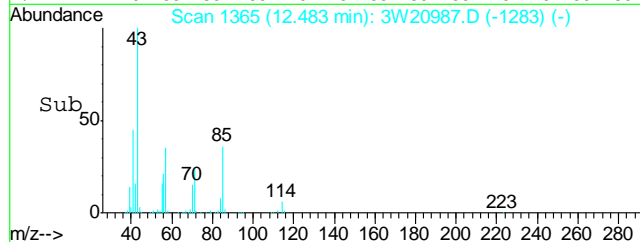
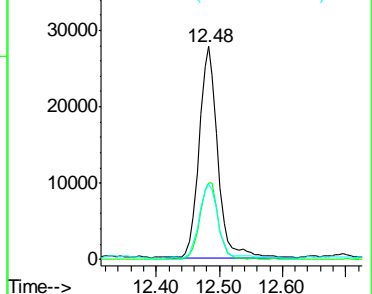


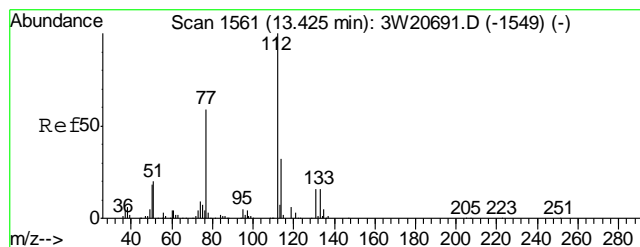
Abundance

Ion 43.00 (42.70 to 43.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

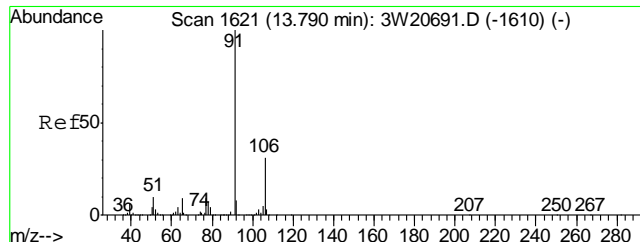
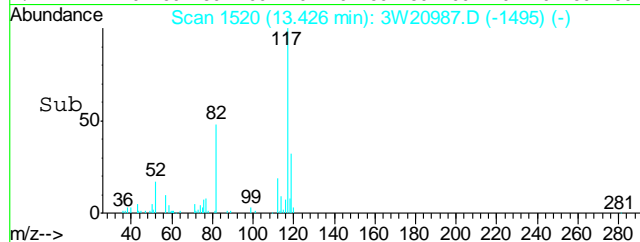
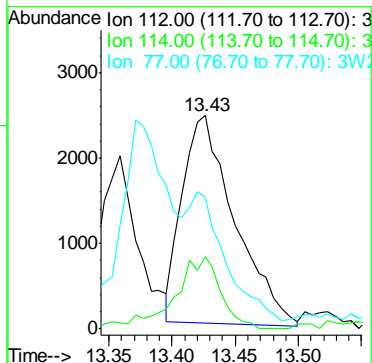
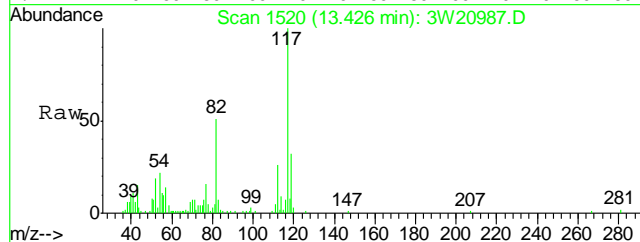
Ion 57.00 (56.70 to 57.70): 3W2





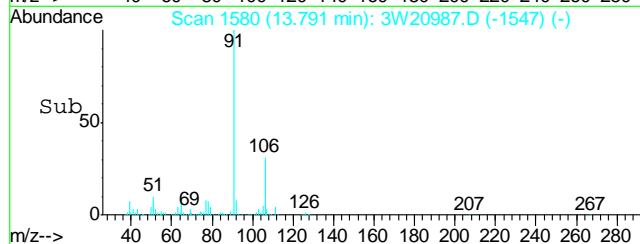
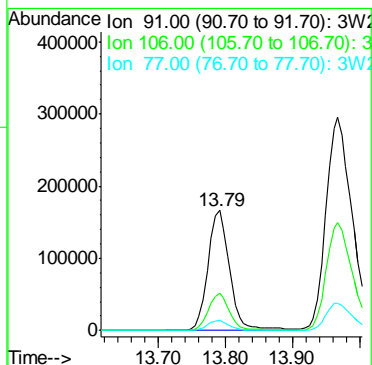
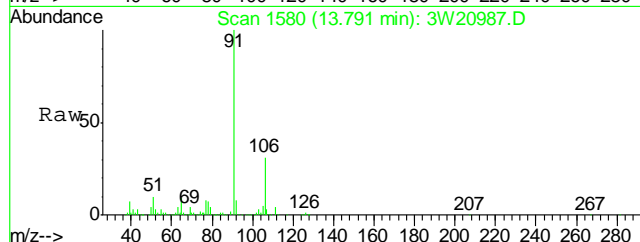
#69
CHLOROBENZENE
Concen: 0.20 PPBV
RT: 13.43 min Scan# 1520
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

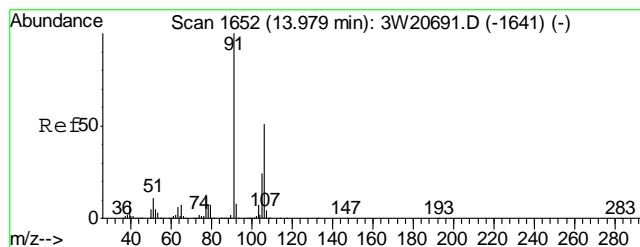
Tgt Ion:	112	Resp:	7035
Ion Ratio	Lower	Upper	
112	100		
114	30.9	12.2	52.2
77	43.3	36.5	76.5



#70
ETHYLBENZENE
Concen: 6.69 PPBV
RT: 13.79 min Scan# 1580
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

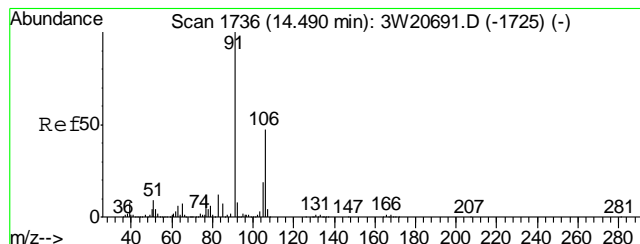
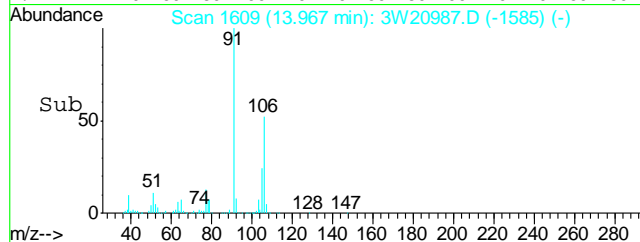
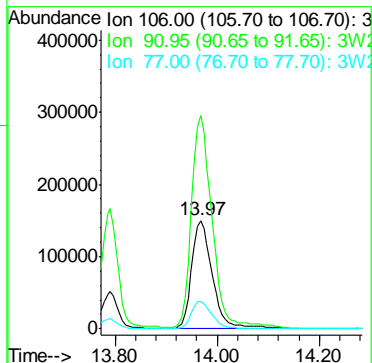
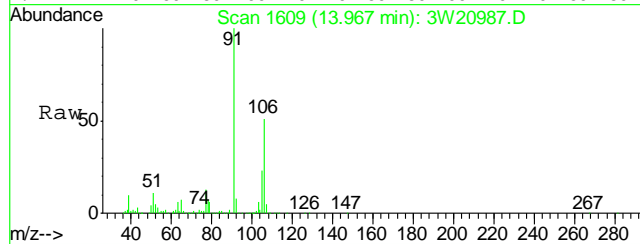
Tgt Ion:	91	Resp:	373755
Ion Ratio	Lower	Upper	
91	100		
106	30.6	11.5	51.5
77	8.2	0.0	28.4





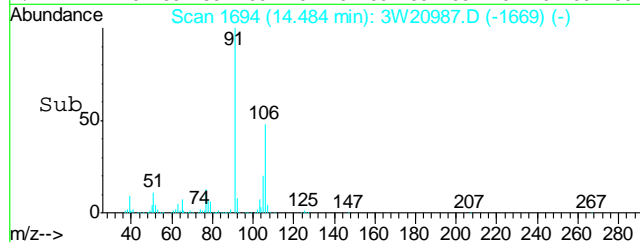
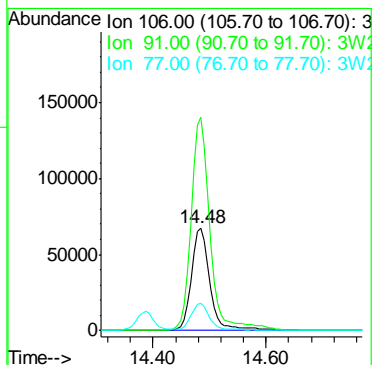
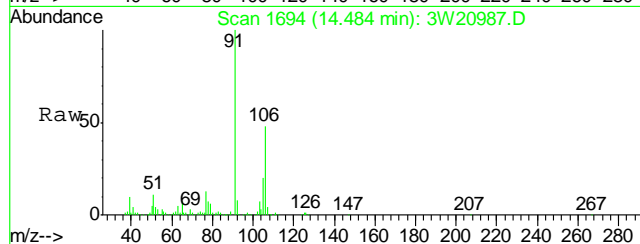
#71
m,p-XYLENE
Concen: 20.05 PPBV
RT: 13.97 min Scan# 1609
Delta R.T. -0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

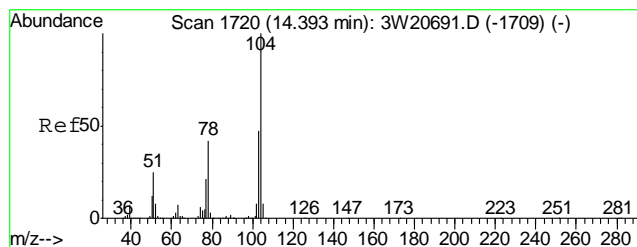
Tgt Ion:	106	Resp:	417896
Ion Ratio	Lower	Upper	
106	100		
91	197.1	176.1	216.1
77	25.0	4.4	44.4



#72
o-XYLENE
Concen: 7.96 PPBV
RT: 14.48 min Scan# 1694
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

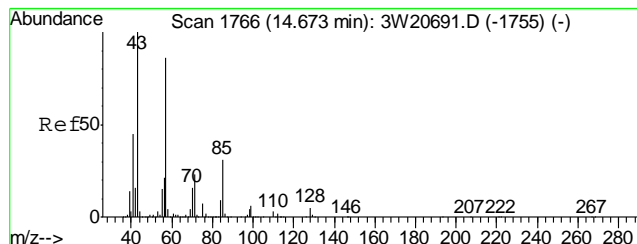
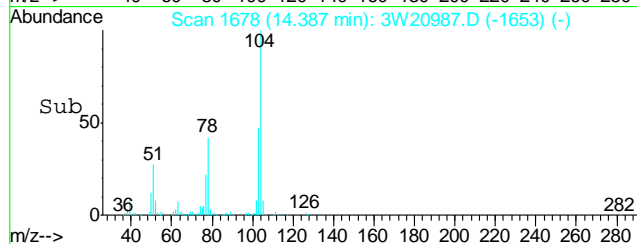
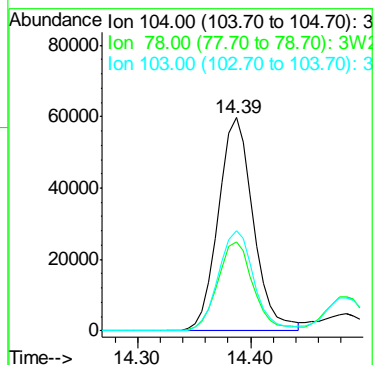
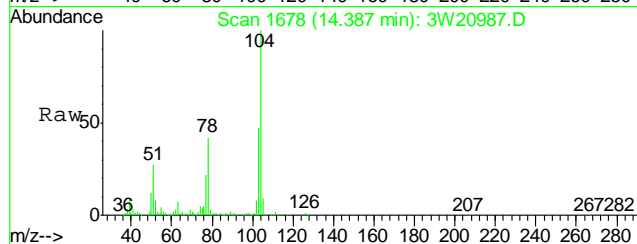
Tgt Ion:	106	Resp:	155867
Ion Ratio	Lower	Upper	
106	100		
91	210.3	186.8	226.8
77	26.5	3.9	43.9





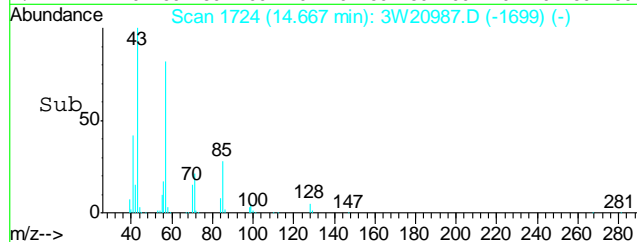
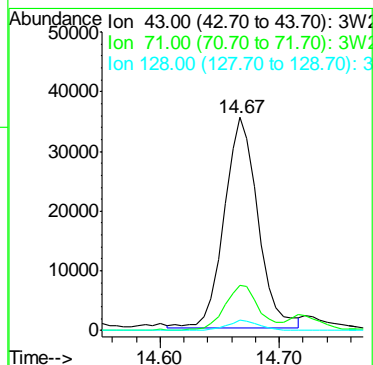
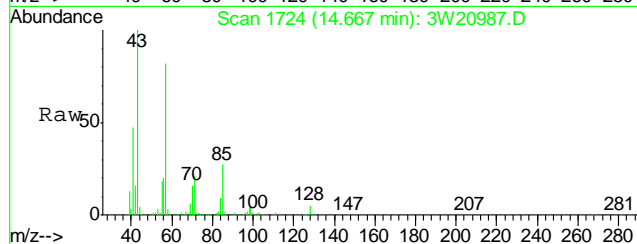
#73
 STYRENE
 Concen: 5.57 PPBV
 RT: 14.39 min Scan# 1678
 Delta R.T. -0.00 min
 Lab File: 3W20987.D
 Acq: 24 Feb 2011 7:36 pm

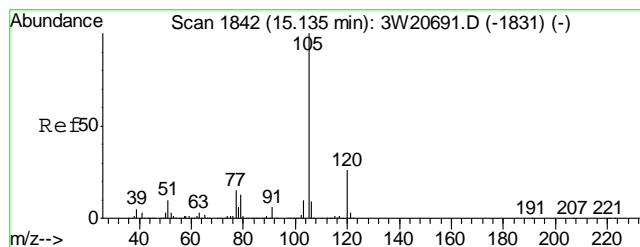
Tgt Ion	Ratio	Lower	Upper
104	100		
78	42.7	19.0	59.0
103	47.3	27.2	67.2



#74
 NONANE
 Concen: 2.14 PPBV
 RT: 14.67 min Scan# 1724
 Delta R.T. -0.00 min
 Lab File: 3W20987.D
 Acq: 24 Feb 2011 7:36 pm

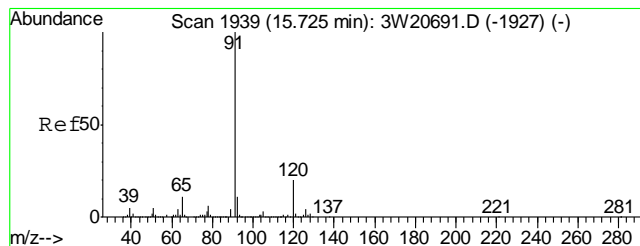
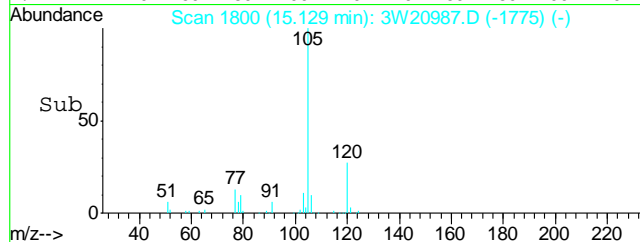
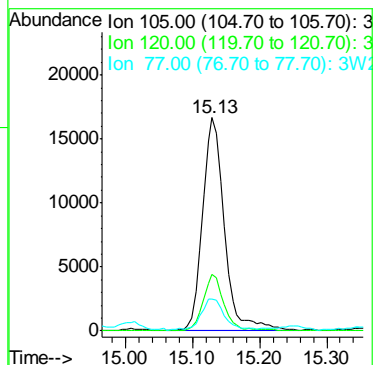
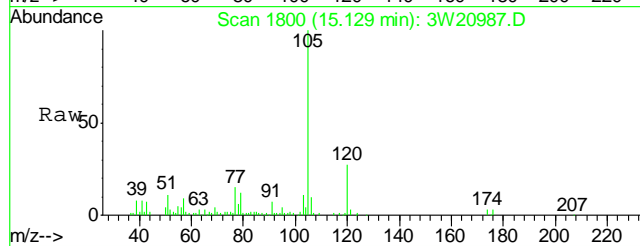
Tgt Ion	Ratio	Lower	Upper
43	100		
71	20.7	4.4	44.4
128	4.7	0.0	26.2





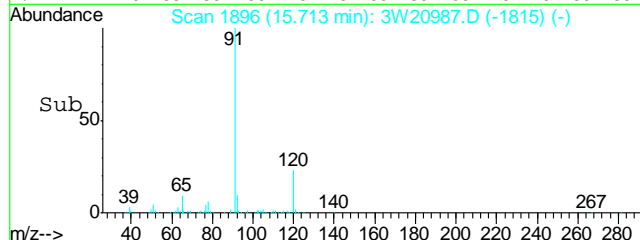
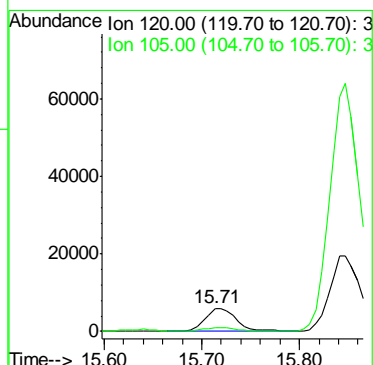
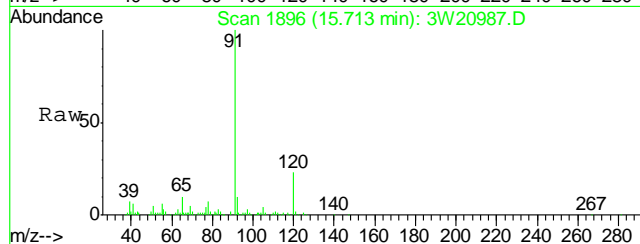
#79
ISOPROPYLBENZENE
Concen: 0.70 PPBV
RT: 15.13 min Scan# 1800
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

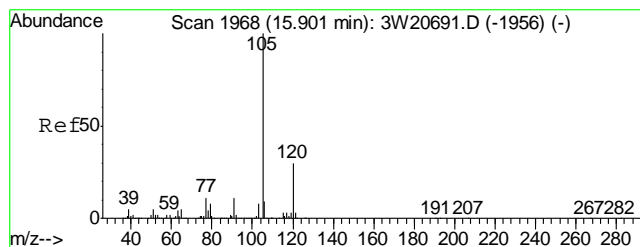
Tgt Ion:	105	Resp:	37543
Ion Ratio	Lower	Upper	
105	100		
120	24.6	6.4	46.4
77	15.6	0.0	34.3



#81
n-PROPYLBENZENE
Concen: 1.08 PPBV
RT: 15.71 min Scan# 1896
Delta R.T. -0.01 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

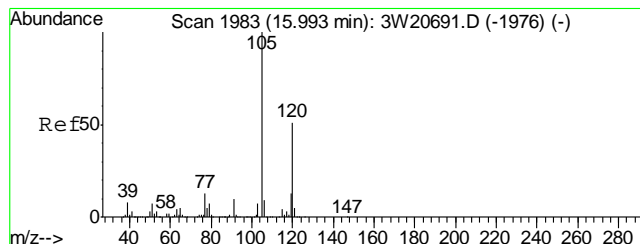
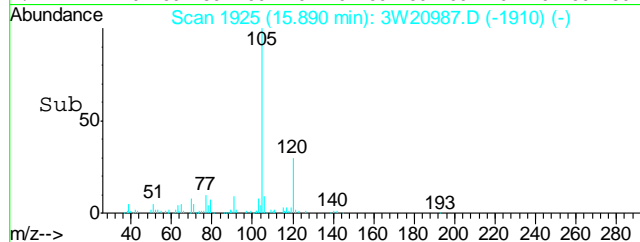
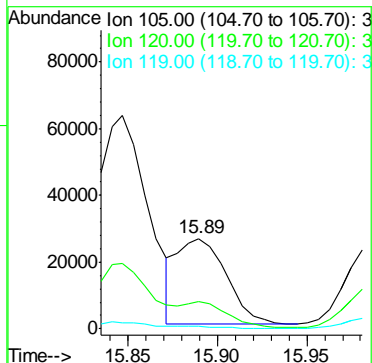
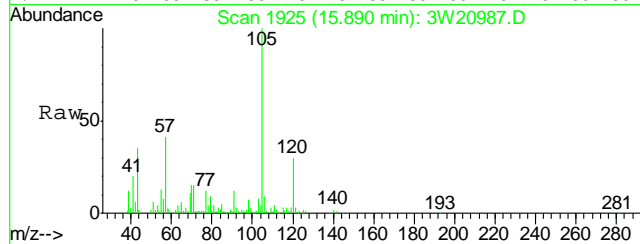
Tgt Ion:	120	Resp:	13525
Ion Ratio	Lower	Upper	
120	100		
105	16.2	0.0	36.5





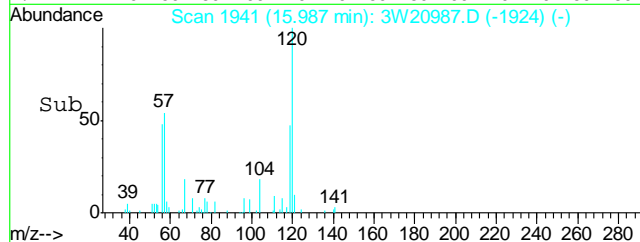
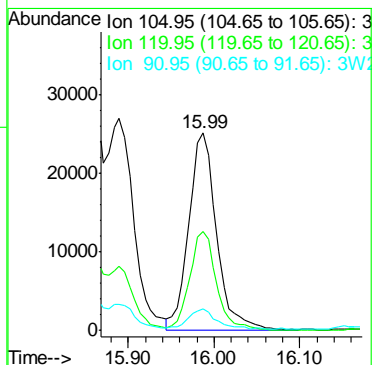
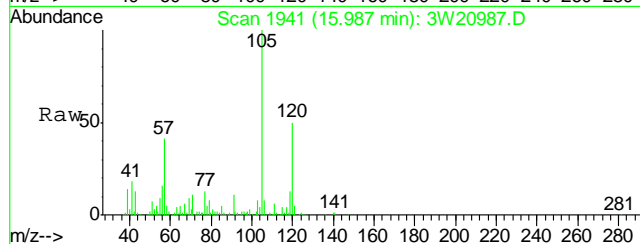
#82
4-ETHYLTOLUENE
Concen: 1.19 PPBV
RT: 15.89 min Scan# 1925
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

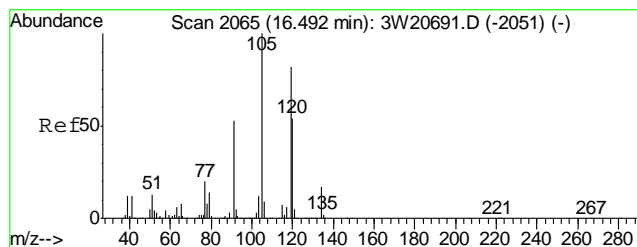
Tgt Ion:	105	Resp:	48444
Ion Ratio	Lower	Upper	
105	100		
120	25.7	10.0	50.0
119	2.3	0.0	22.6



#83
1,3,5-TRIMETHYLBENZENE
Concen: 1.62 PPBV
RT: 15.99 min Scan# 1941
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

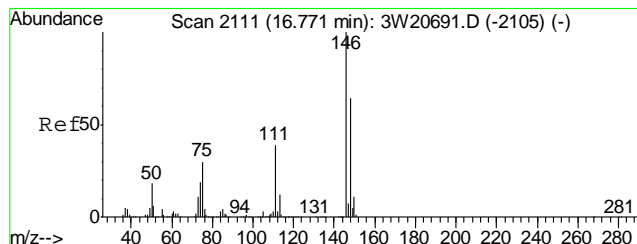
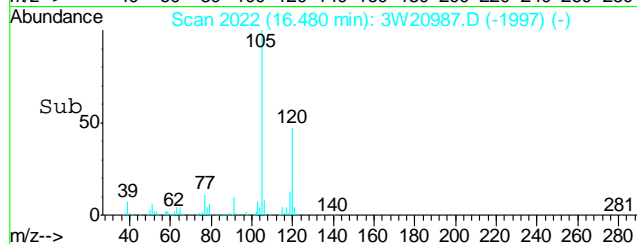
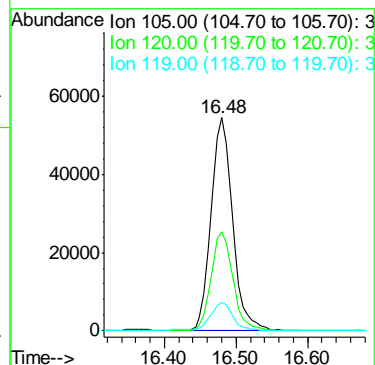
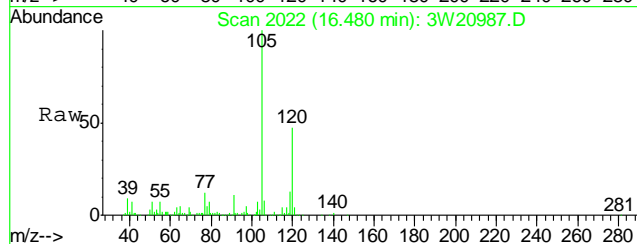
Tgt Ion:	105	Resp:	55667
Ion Ratio	Lower	Upper	
105	100		
120	49.3	31.4	71.4
91	10.4	0.0	29.6





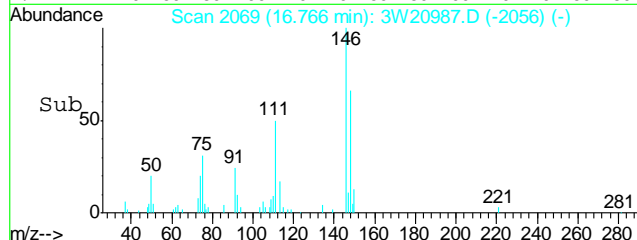
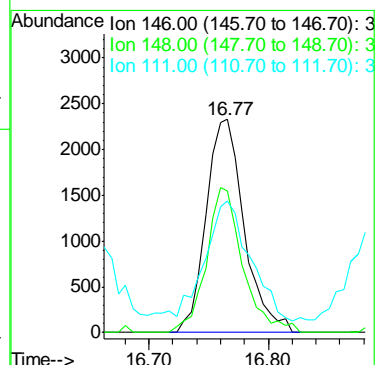
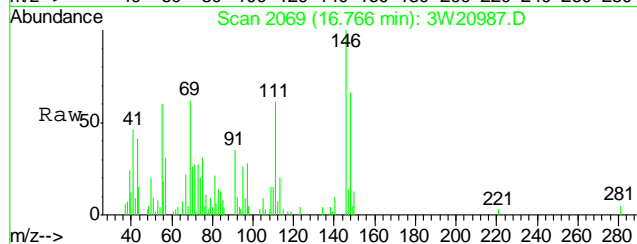
#85
1,2,4-TRIMETHYLBENZENE
Concen: 3.82 PPBV
RT: 16.48 min Scan# 2022
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.2	39.2	79.2
119	13.7	104.5	144.5#



#88
p-DICHLOROBENZENE
Concen: 0.28 PPBV
RT: 16.77 min Scan# 2069
Delta R.T. -0.00 min
Lab File: 3W20987.D
Acq: 24 Feb 2011 7:36 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.9	44.2	84.2
111	67.3	14.5	54.5#



Manual Integration Approval Summary

Sample Number: JA68565-5

Method: TO-15

Lab FileID: 3W20987.D

Analyst approved: 02/25/11 10:31 Yunxia Chen

Injection Time: 02/24/11 19:36

Supervisor approved: 03/10/11 15:21 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrahydrofuran	109-99-9		8.08	Split peak

6.1.7.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_V3W\V3W829\3W21028.D Vial: 6
 Acq On : 26 Feb 2011 2:15 am Operator: yunxiac
 Sample : JA68565-5 Inst : MS3W
 Misc : MS8536,V3W829,40,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 28 08:23:03 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	132739	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	634584	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	305557	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	306575	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 178019 5.48 PPBV -0.01
 Spiked Amount 5.000 Range 65 - 128 Recovery = 109.60%

Target Compounds

Qvalue

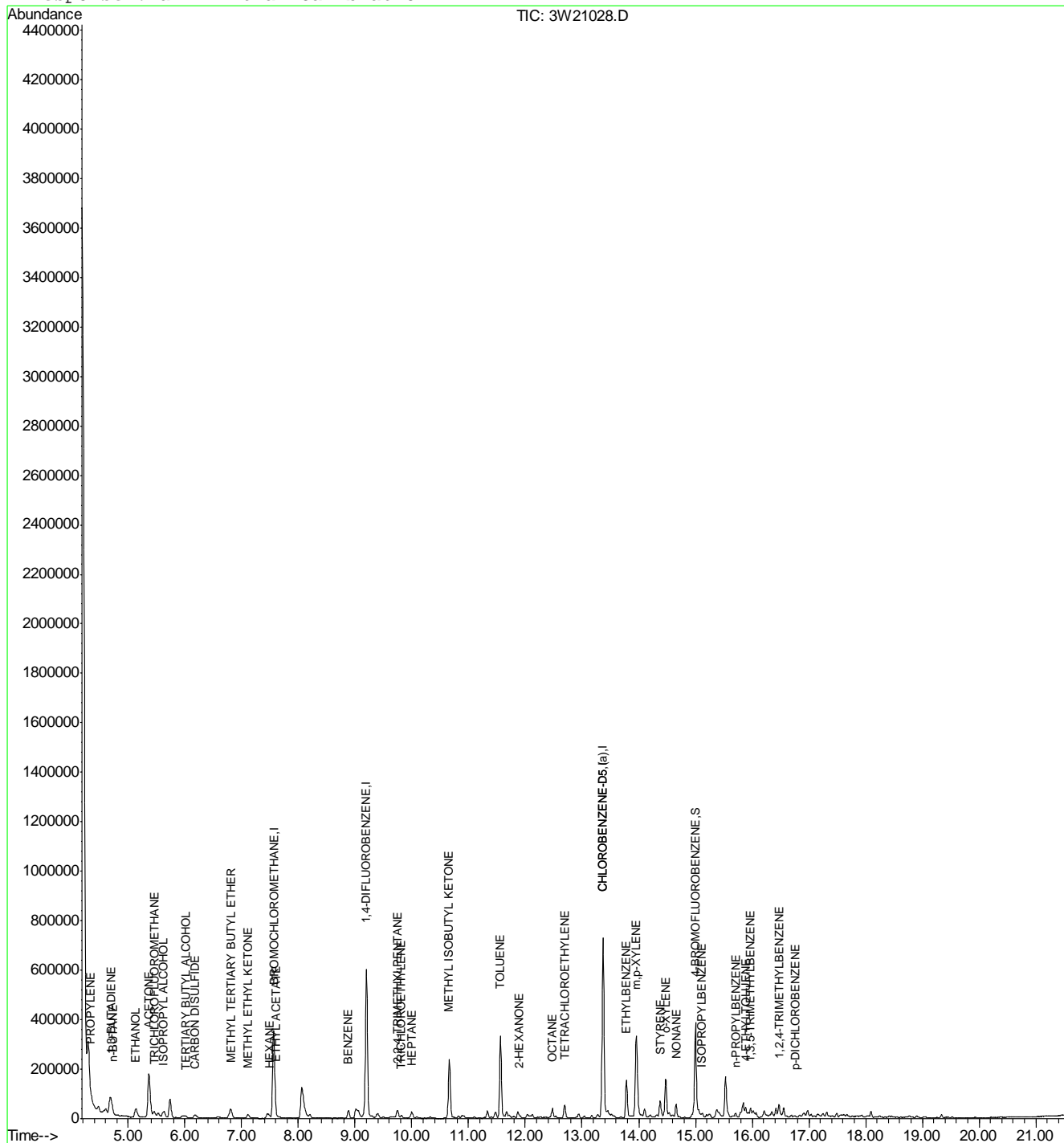
6) PROPYLENE	4.34	41	12094	0.82	PPBV	92
10) 1,3-BUTADIENE	4.71	54	28993	2.29	PPBV #	56
11) n-BUTANE	4.73	43	13076	0.51	PPBV #	94
16) TRICHLOROFLUOROMETHANE	5.46	101	26741	0.70	PPBV	99
17) ISOPROPYL ALCOHOL	5.62	45	32496	1.50	PPBV	81
18) ACETONE	5.37	58	97396	18.58	PPBV #	82
23) CARBON DISULFIDE	6.17	76	22159	0.48	PPBV	92
24) ETHANOL	5.13	45	70089	12.96	PPBV	98
30) TERTIARY BUTYL ALCOHOL	6.02	59	8357	0.34	PPBV	81
31) METHYL TERTIARY BUTYL ETHER	6.81	73	18452	0.57	PPBV #	47
33) HEXANE	7.49	57	6990	0.29	PPBV	96
36) METHYL ETHYL KETONE	7.11	72	4583	0.93	PPBV #	74
39) ETHYL ACETATE	7.61	61	1150	0.33	PPBV #	50
46) BENZENE	8.88	78	34441	0.91	PPBV	97
49) TRICHLOROETHYLENE	9.82	95	4720	0.25	PPBV	98
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	34672	0.53	PPBV	81
54) HEPTANE	10.00	43	15226	0.58	PPBV	89
57) METHYL ISOBUTYL KETONE	10.66	58	76107	8.94	PPBV #	87
59) TOLUENE	11.56	92	180156	7.40	PPBV	100
63) 2-HEXANONE	11.89	58	2400	0.22	PPBV #	1
64) TETRACHLOROETHYLENE	12.70	164	13966	0.64	PPBV	97
67) OCTANE	12.48	43	23170	0.68	PPBV	91
70) ETHYLBENZENE	13.78	91	138814	2.88	PPBV	97
71) m,p-XYLENE	13.96	106	151888	8.44	PPBV	97
72) o-XYLENE	14.47	106	56143	3.32	PPBV	96
73) STYRENE	14.37	104	43270	2.18	PPBV	98
74) NONANE	14.66	43	28121	1.00	PPBV	94
79) ISOPROPYLBENZENE	15.12	105	12719	0.28	PPBV	94
81) n-PROPYLBENZENE	15.71	120	4141	0.38	PPBV	94
82) 4-ETHYLTOLUENE	15.88	105	14340	0.41	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	17118	0.58	PPBV	97
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	34222	1.35	PPBV #	28
88) p-DICHLOROBENZENE	16.76	146	1728	0.11	PPBV #	58

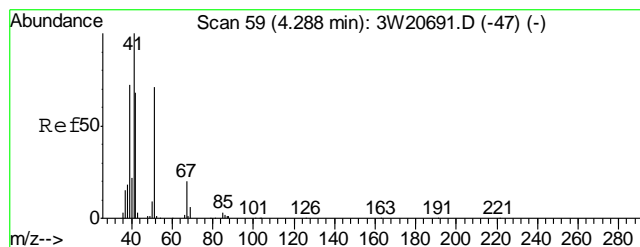
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21028.D M3W821.M Thu Mar 10 12:32:54 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_V3W\V3W829\3W21028.D Vial: 6
Acq On : 26 Feb 2011 2:15 am Operator: yunxiac
Sample : JA68565-5 Inst : MS3W
Misc : MS8536,V3W829,40,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 10 12:32 2011 Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Mar 10 08:27:02 2011
Response via : Initial Calibration





#6

PROPYLENE

Concen: 0.82 PPBV

RT: 4.34 min Scan# 27

Delta R.T. 0.01 min

Lab File: 3W21028.D

Acq: 26 Feb 2011 2:15 am

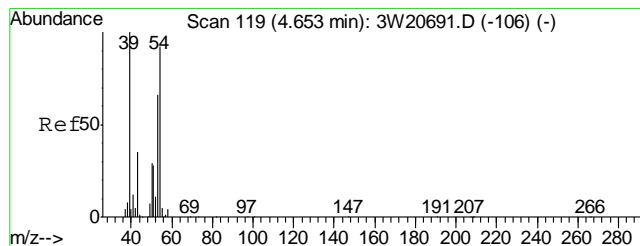
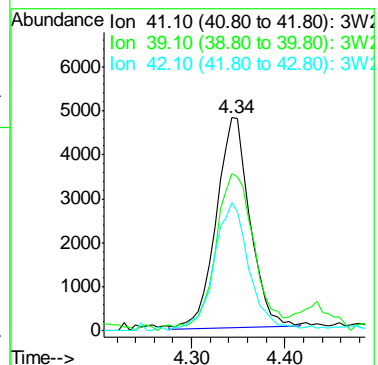
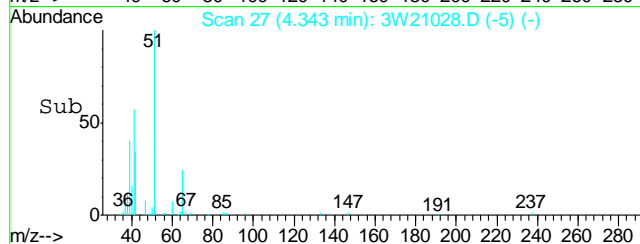
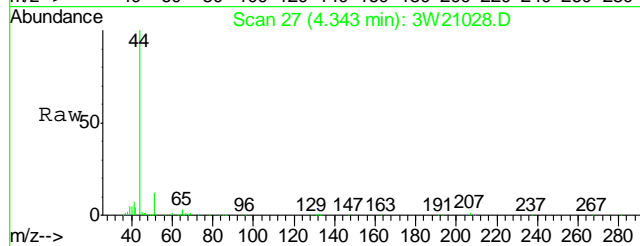
Tgt Ion: 41 Resp: 12094

Ion Ratio Lower Upper

41 100

39 81.6 50.7 90.7

42 64.2 46.0 86.0



#10

1,3-BUTADIENE

Concen: 2.29 PPBV

RT: 4.71 min Scan# 87

Delta R.T. 0.01 min

Lab File: 3W21028.D

Acq: 26 Feb 2011 2:15 am

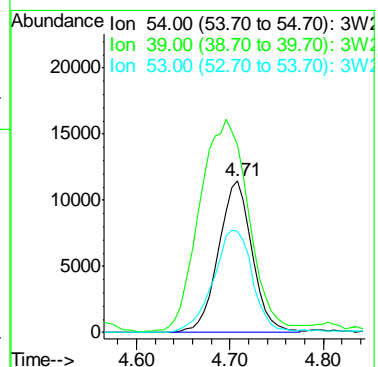
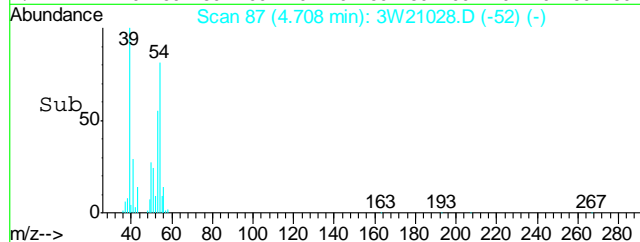
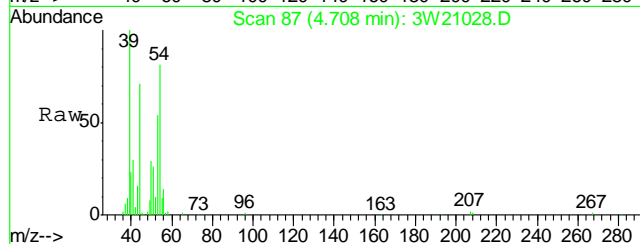
Tgt Ion: 54 Resp: 28993

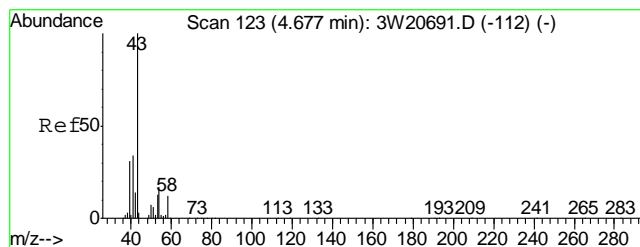
Ion Ratio Lower Upper

54 100

39 205.1 111.0 151.0#

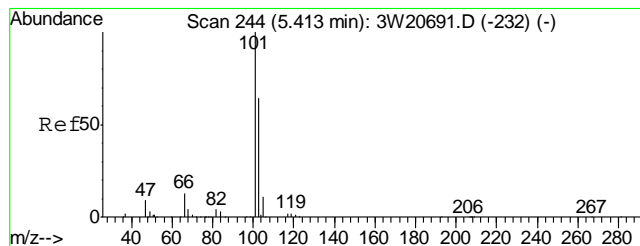
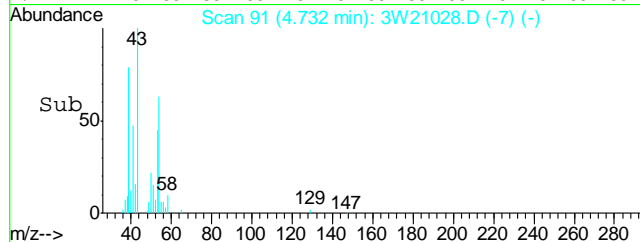
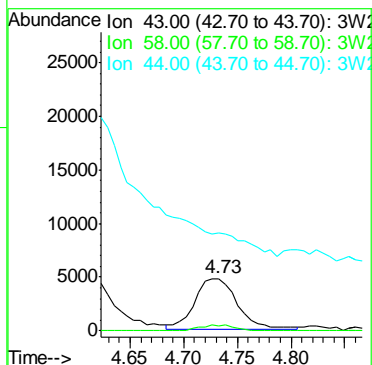
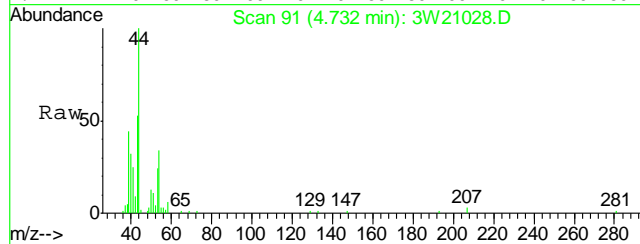
53 79.2 51.8 91.8





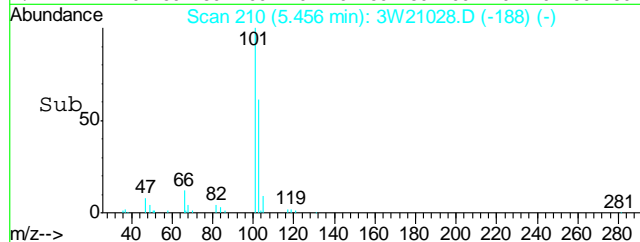
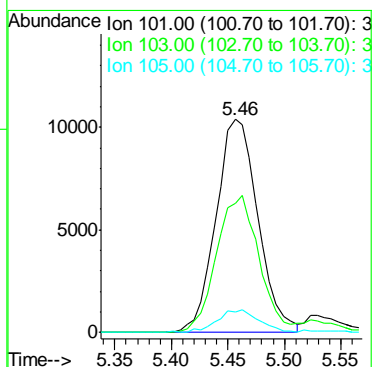
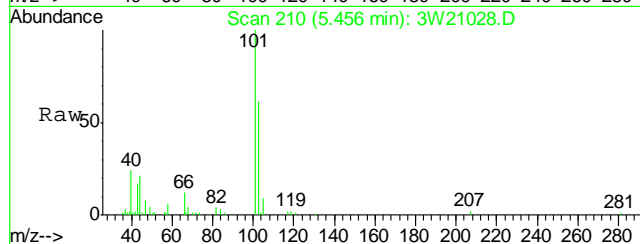
#11
n-BUTANE
Concen: 0.51 PPBV
RT: 4.73 min Scan# 91
Delta R.T. 0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

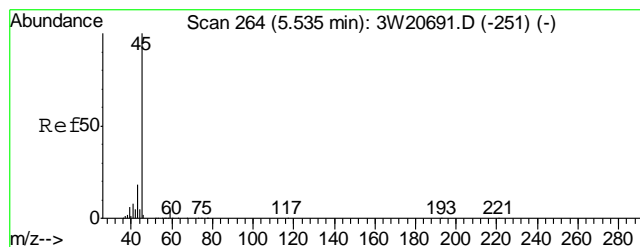
Tgt Ion	Ratio	Lower	Upper
43	100		
58	10.3	0.0	32.1
44	0.0	0.0	23.9



#16
TRICHLOROFLUOROMETHANE
Concen: 0.70 PPBV
RT: 5.46 min Scan# 210
Delta R.T. 0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

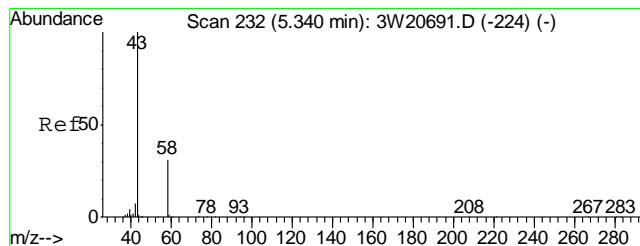
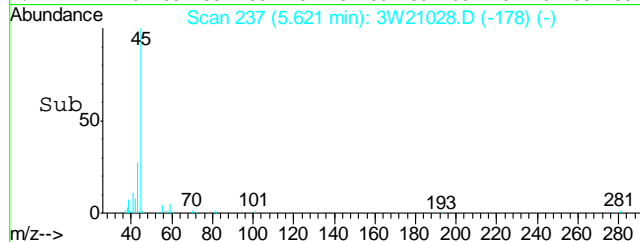
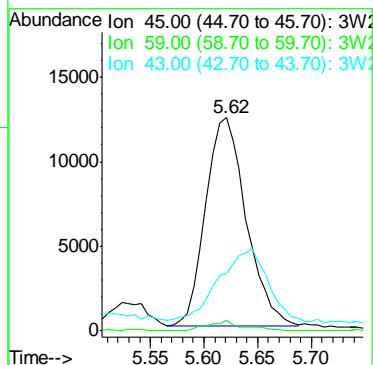
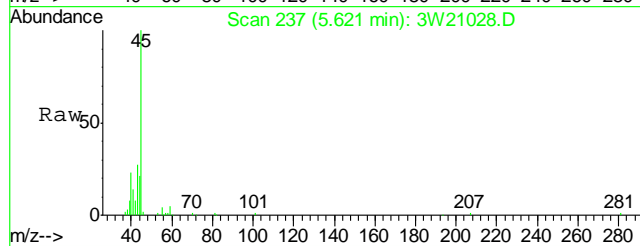
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.8	45.5	85.5
105	10.5	0.0	30.6





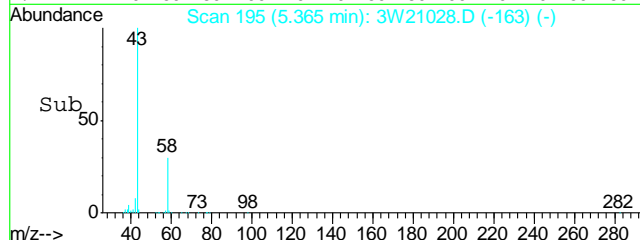
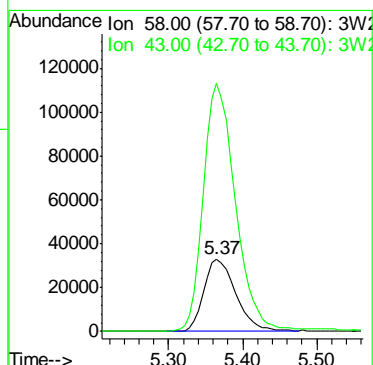
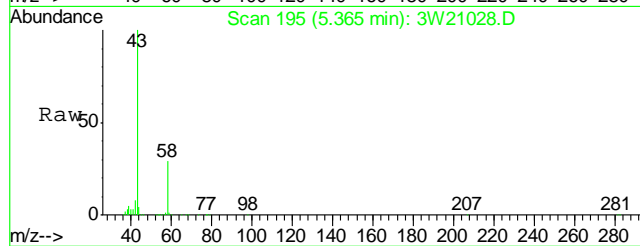
#17
ISOPROPYL ALCOHOL
Concen: 1.50 PPBV
RT: 5.62 min Scan# 237
Delta R.T. 0.06 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

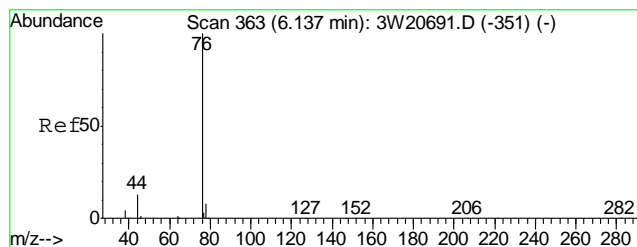
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.8	0.0	23.7
43	27.2	0.0	37.4



#18
ACETONE
Concen: 18.58 PPBV
RT: 5.37 min Scan# 195
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

Tgt Ion	Ratio	Lower	Upper
58	100		
43	344.4	289.1	329.1#





#23

CARBON DISULFIDE

Concen: 0.48 PPBV

RT: 6.17 min Scan# 328

Delta R.T. -0.00 min

Lab File: 3W21028.D

Acq: 26 Feb 2011 2:15 am

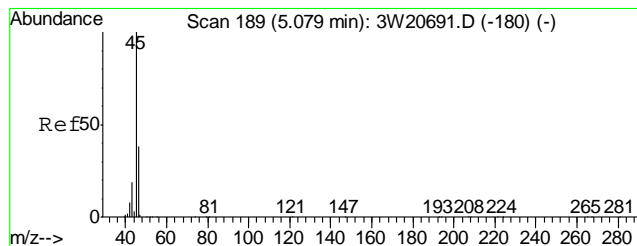
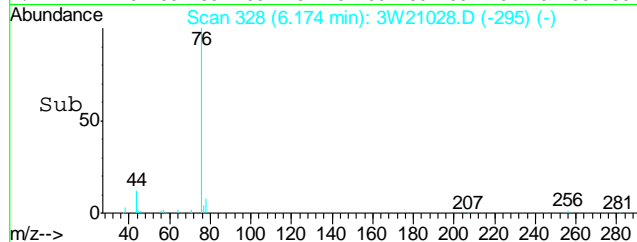
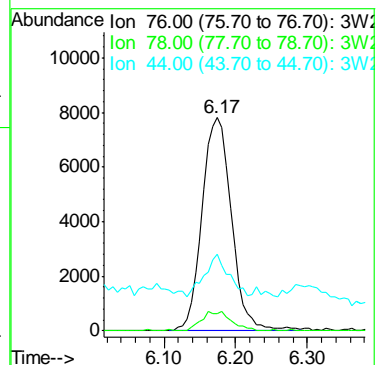
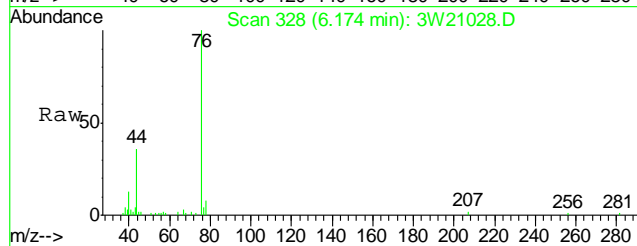
Tgt Ion: 76 Resp: 22159

Ion Ratio Lower Upper

76 100

78 9.0 0.0 30.5

44 16.3 0.0 31.7



#24

ETHANOL

Concen: 12.96 PPBV

RT: 5.13 min Scan# 157

Delta R.T. 0.02 min

Lab File: 3W21028.D

Acq: 26 Feb 2011 2:15 am

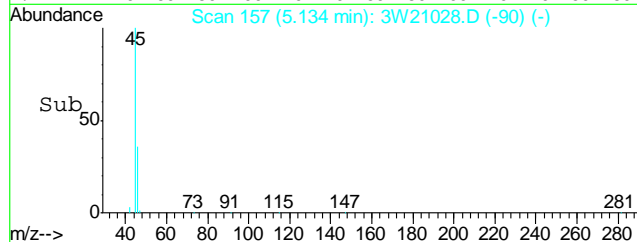
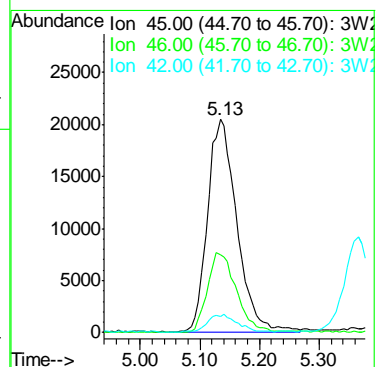
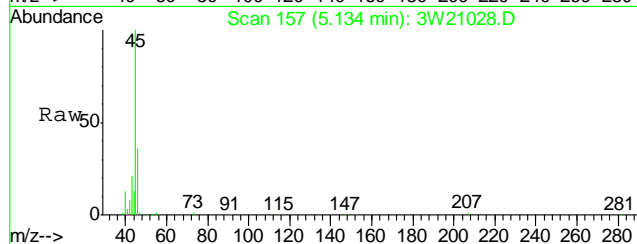
Tgt Ion: 45 Resp: 70089

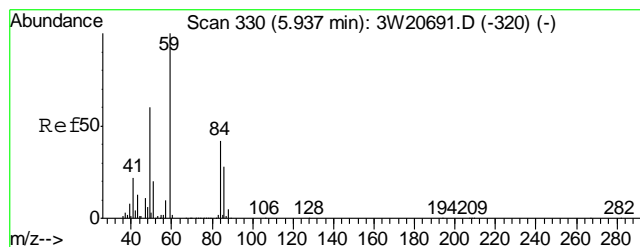
Ion Ratio Lower Upper

45 100

46 36.8 18.2 58.2

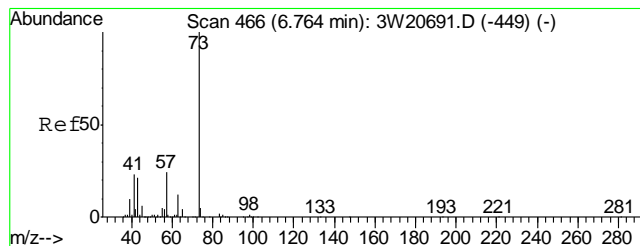
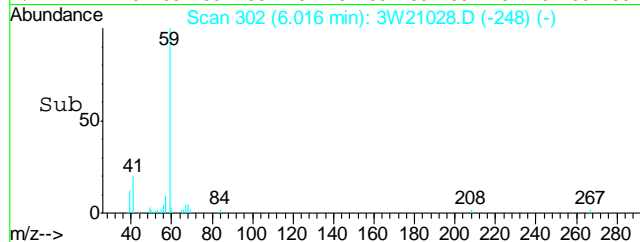
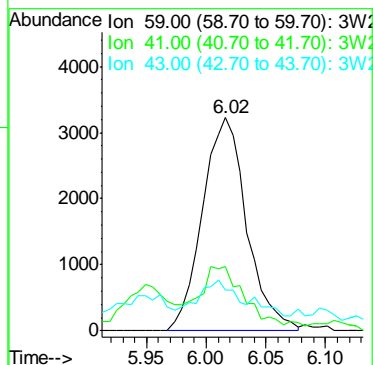
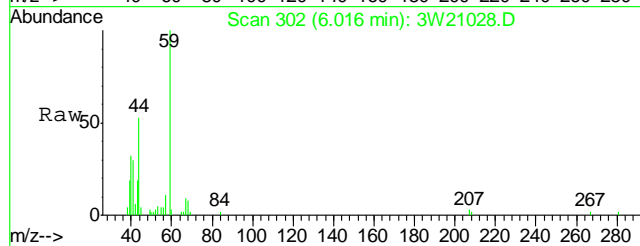
42 8.0 0.0 27.7





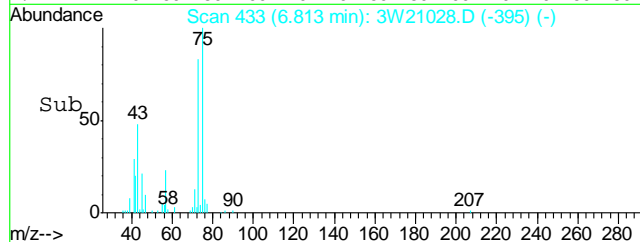
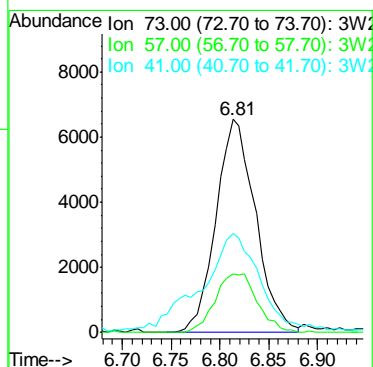
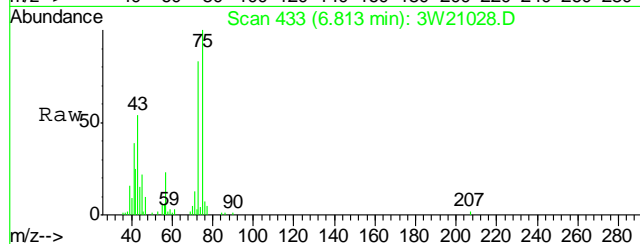
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.34 PPBV
RT: 6.02 min Scan# 302
Delta R.T. 0.03 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

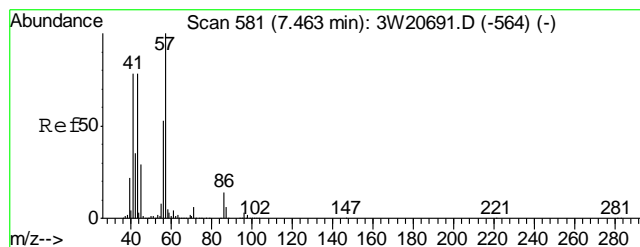
Tgt Ion	Ratio	Lower	Upper
59	100		
41	27.7	0.0	38.0
43	18.9	0.0	33.0



#31
METHYL TERTIARY BUTYL ETHER
Concen: 0.57 PPBV
RT: 6.81 min Scan# 433
Delta R.T. 0.02 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

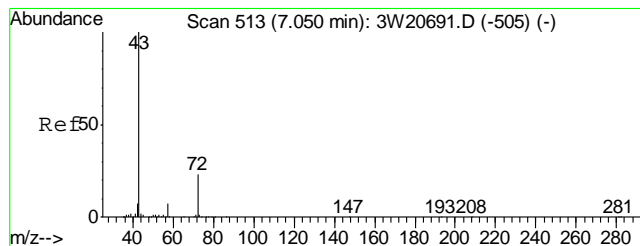
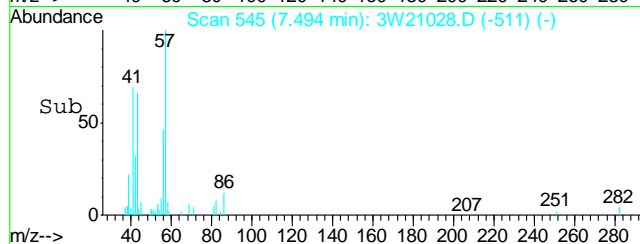
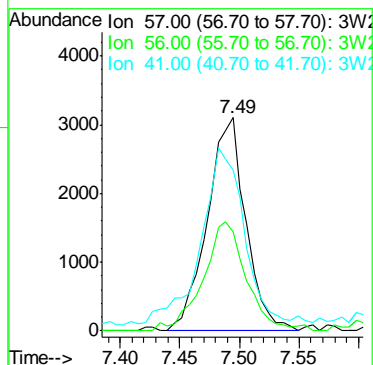
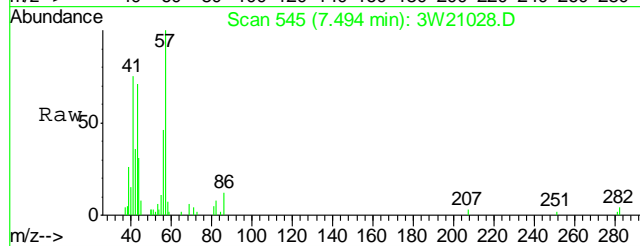
Tgt Ion	Ratio	Lower	Upper
73	100		
57	29.4	3.0	43.0
41	66.4	1.6	41.6#





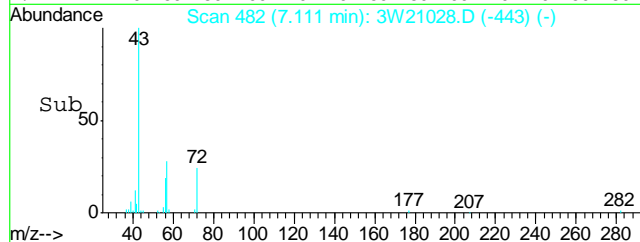
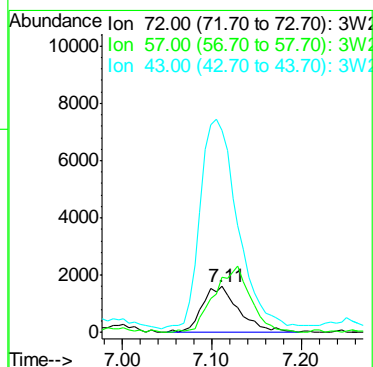
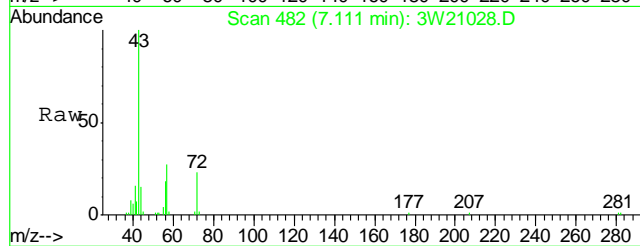
#33
 HEXANE
 Concen: 0.29 PPBV
 RT: 7.49 min Scan# 545
 Delta R.T. 0.01 min
 Lab File: 3W21028.D
 Acq: 26 Feb 2011 2:15 am

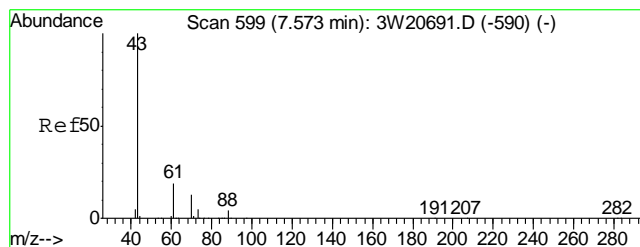
Tgt Ion	Resp	Lower	Upper
57	100		
56	57.4	30.5	70.5
41	99.9	79.2	119.2



#36
 METHYL ETHYL KETONE
 Concen: 0.93 PPBV
 RT: 7.11 min Scan# 482
 Delta R.T. 0.04 min
 Lab File: 3W21028.D
 Acq: 26 Feb 2011 2:15 am

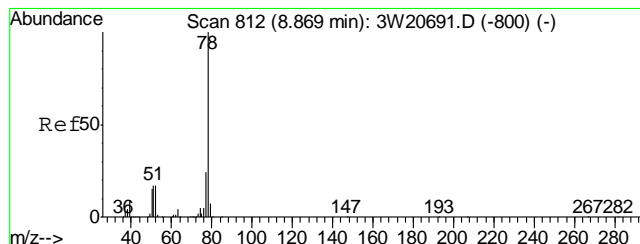
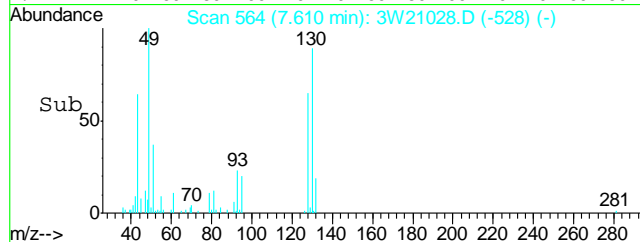
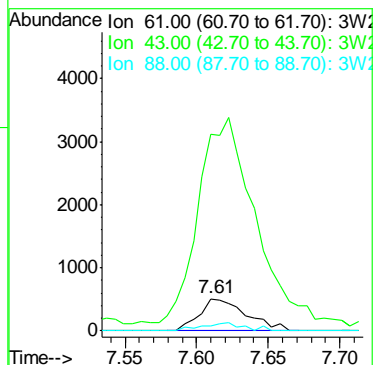
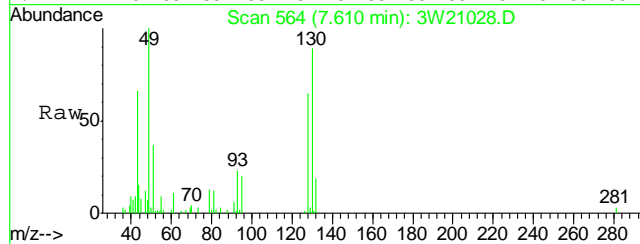
Tgt Ion	Resp	Lower	Upper
72	100		
57	120.8	11.3	51.3#
43	439.8	384.1	424.1#





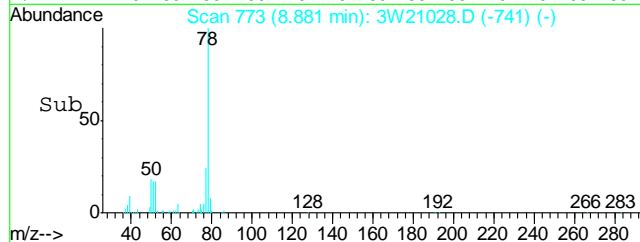
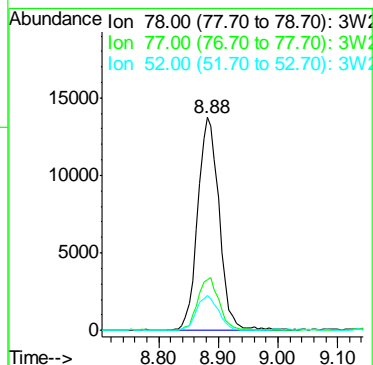
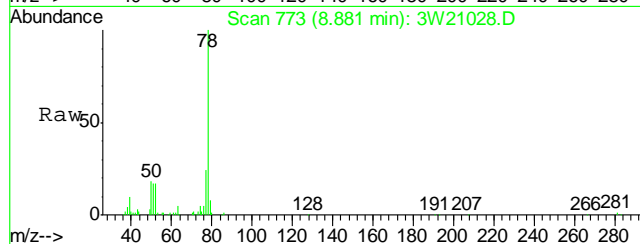
#39
ETHYL ACETATE
Concen: 0.33 PPBV
RT: 7.61 min Scan# 564
Delta R.T. 0.02 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

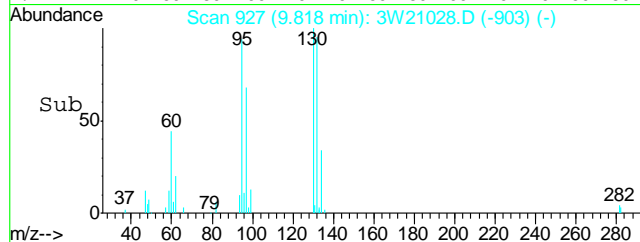
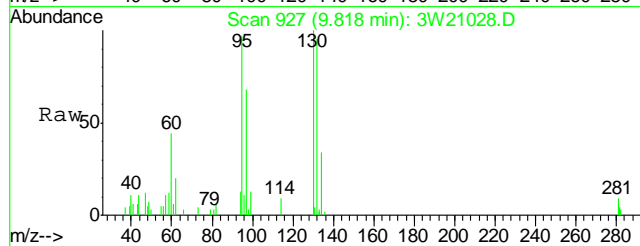
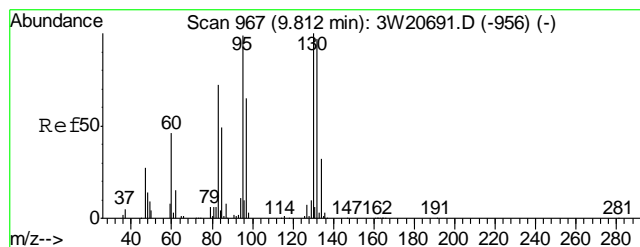
Tgt Ion	Ratio	Lower	Upper
61	100		
43	880.0	682.3	722.3#
88	22.0	6.1	46.1



#46
BENZENE
Concen: 0.91 PPBV
RT: 8.88 min Scan# 773
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.6	43.6
52	16.8	0.0	35.5





#49

TRICHLOROETHYLENE

Concen: 0.25 PPBV

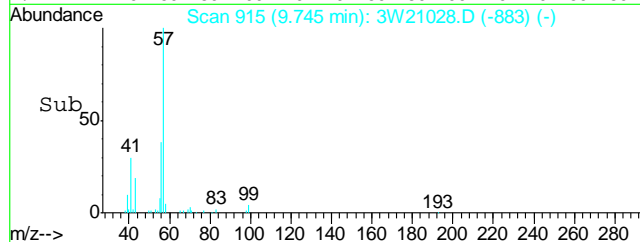
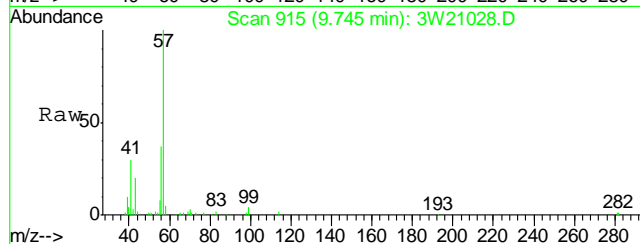
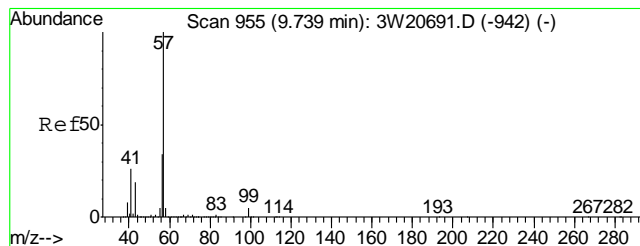
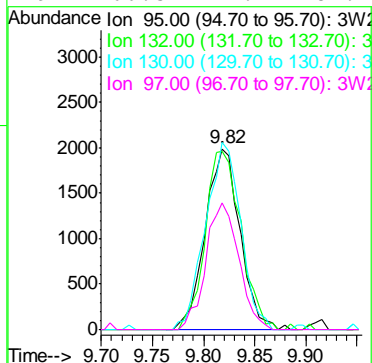
RT: 9.82 min Scan# 927

Delta R.T. -0.01 min

Lab File: 3W21028.D

Acq: 26 Feb 2011 2:15 am

Tgt Ion:	95	Resp:	4720
Ion Ratio	Lower	Upper	
95	100		
132	101.3	83.4	123.4
130	104.4	87.1	127.1
97	66.5	44.2	84.2



#52

2,2,4-TRIMETHYLPENTANE

Concen: 0.53 PPBV

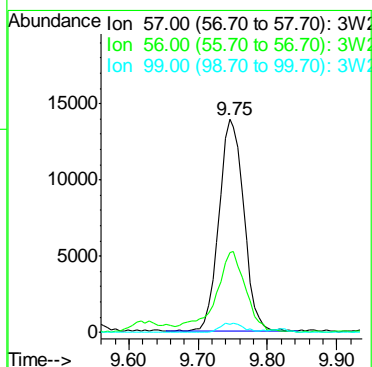
RT: 9.75 min Scan# 915

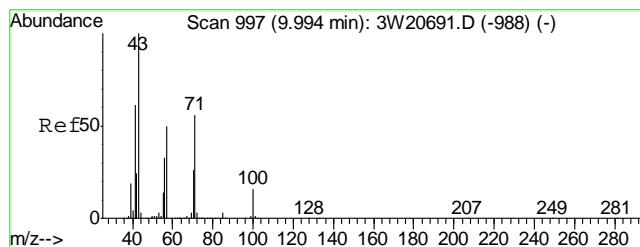
Delta R.T. -0.01 min

Lab File: 3W21028.D

Acq: 26 Feb 2011 2:15 am

Tgt Ion:	57	Resp:	34672
Ion Ratio	Lower	Upper	
57	100		
56	45.6	13.2	53.2
99	4.3	0.0	25.2





#54

HEPTANE

Concen: 0.58 PPBV

RT: 10.00 min Scan# 957

Delta R.T. -0.01 min

Lab File: 3W21028.D

Acq: 26 Feb 2011 2:15 am

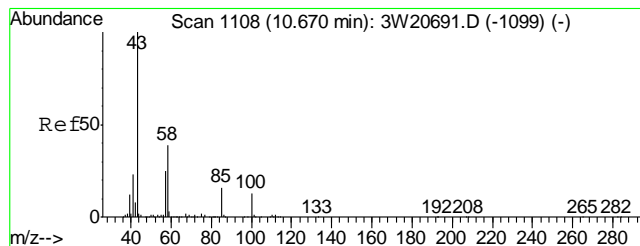
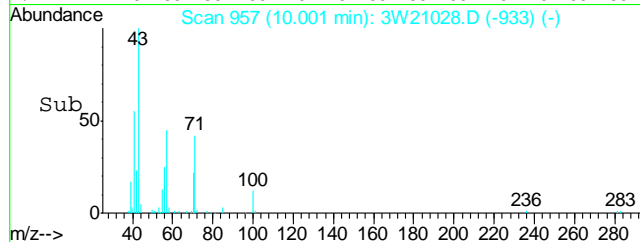
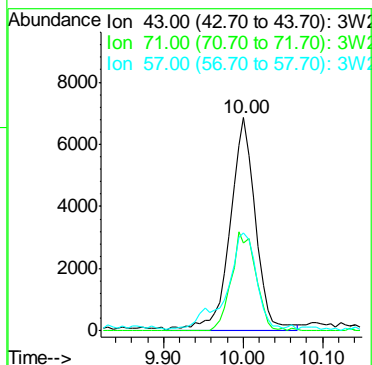
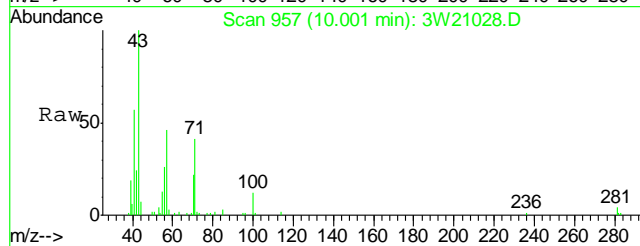
Tgt Ion: 43 Resp: 15226

Ion Ratio Lower Upper

43 100

71 44.4 36.1 76.1

57 47.6 32.3 72.3



#57

METHYL ISOBUTYL KETONE

Concen: 8.94 PPBV

RT: 10.66 min Scan# 1065

Delta R.T. -0.01 min

Lab File: 3W21028.D

Acq: 26 Feb 2011 2:15 am

Tgt Ion: 58 Resp: 76107

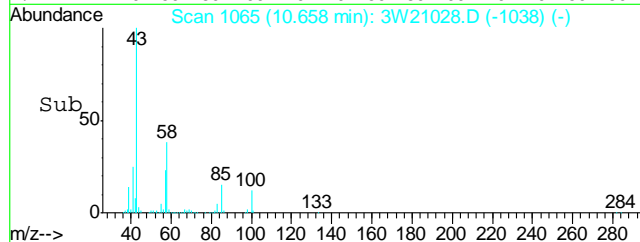
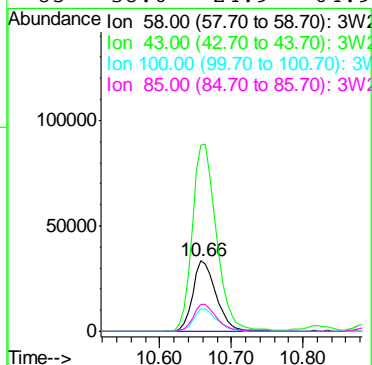
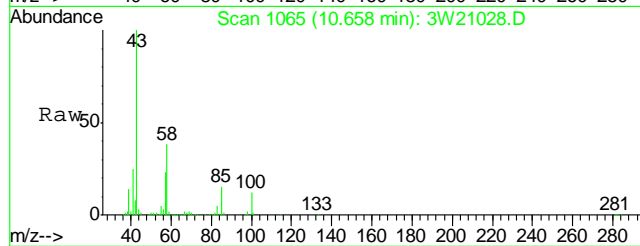
Ion Ratio Lower Upper

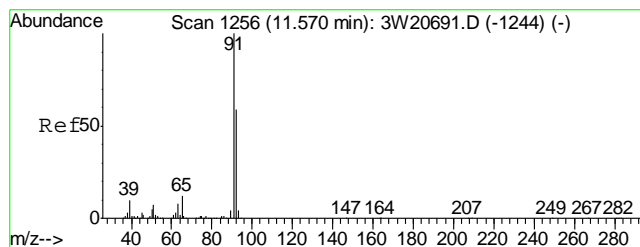
58 100

43 275.1 229.3 269.3#

100 31.8 14.1 54.1

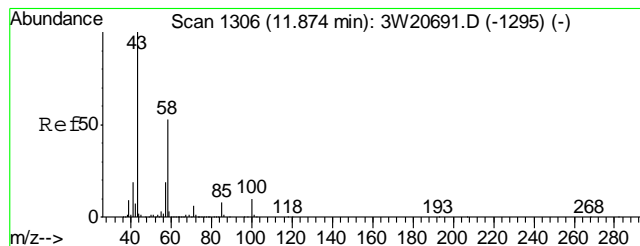
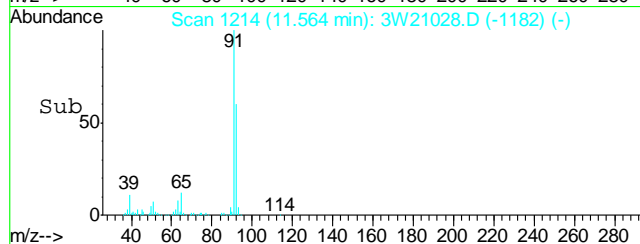
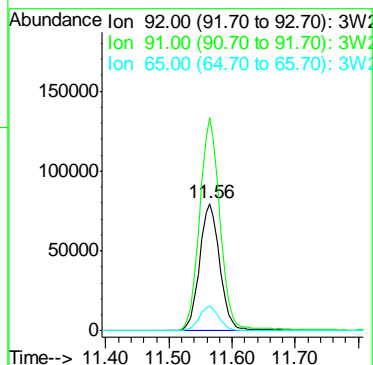
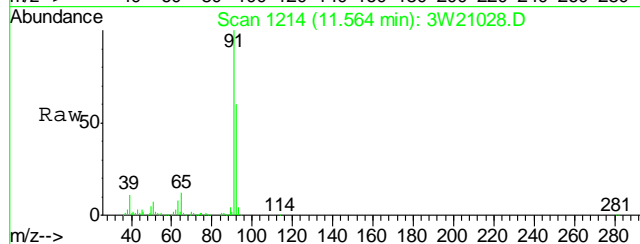
85 38.6 24.9 64.9





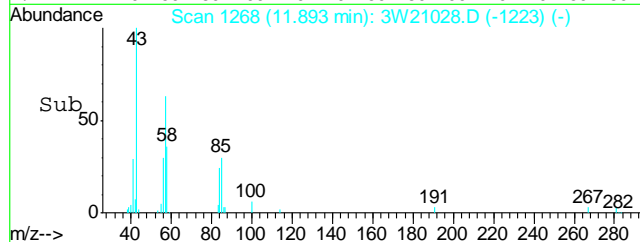
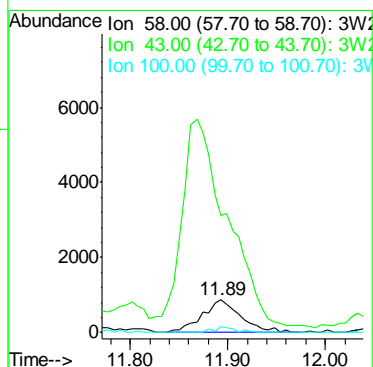
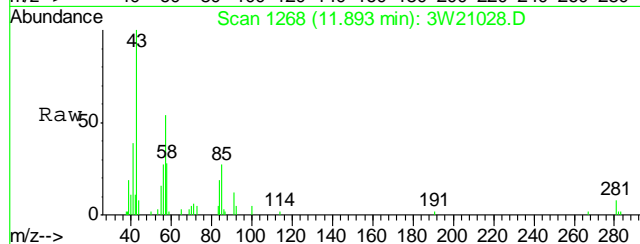
#59
TOLUENE
Concen: 7.40 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

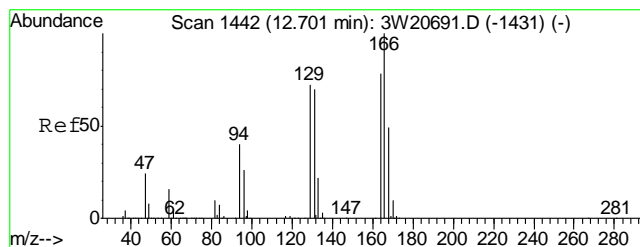
Tgt Ion	Ratio	Lower	Upper
92	100		
91	168.7	148.6	188.6
65	19.1	0.0	38.0



#63
2-HEXANONE
Concen: 0.22 PPBV
RT: 11.89 min Scan# 1268
Delta R.T. 0.03 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

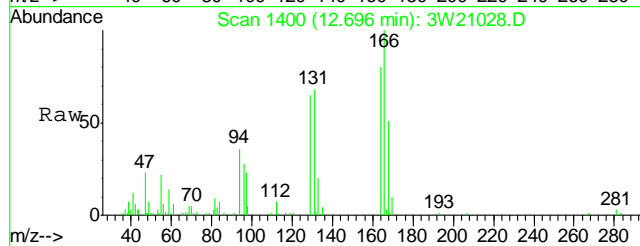
Tgt Ion	Ratio	Lower	Upper
58	100		
43	0.0	166.4	206.4#
100	8.0	0.0	39.6





#64
TETRACHLOROETHYLENE
Concen: 0.64 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

Tgt Ion	Ratio	Lower	Upper
164	100		
129	88.6	65.6	105.6
168	64.7	42.3	82.3
131	85.6	63.0	103.0



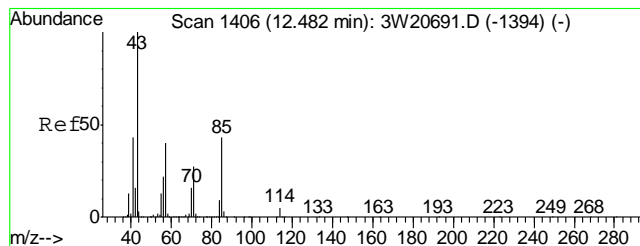
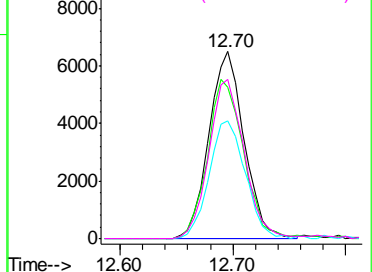
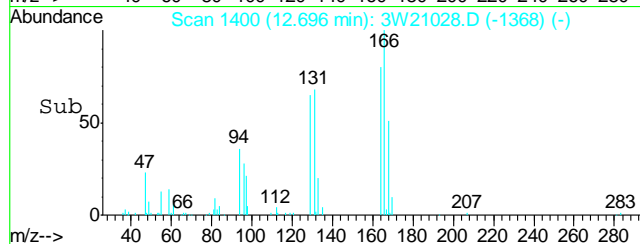
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

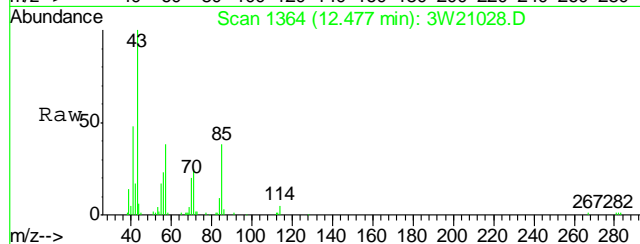
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#67
OCTANE
Concen: 0.68 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

Tgt Ion	Ratio	Lower	Upper
43	100		
85	35.7	24.9	64.9
57	38.4	19.9	59.9

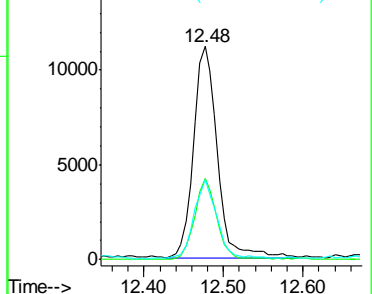
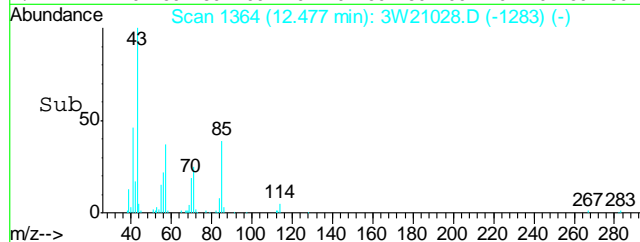


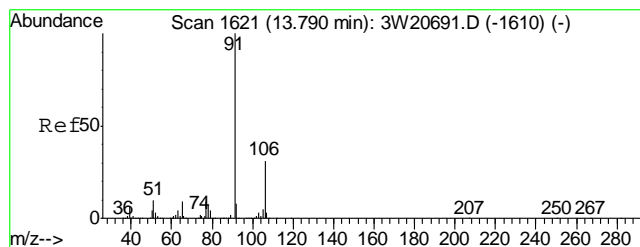
Abundance

Ion 43.00 (42.70 to 43.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

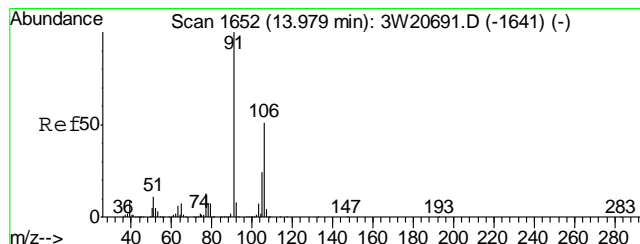
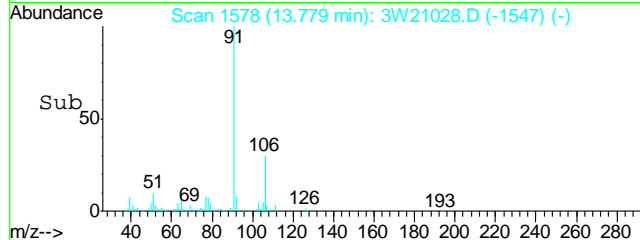
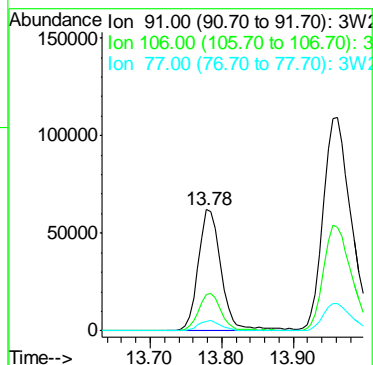
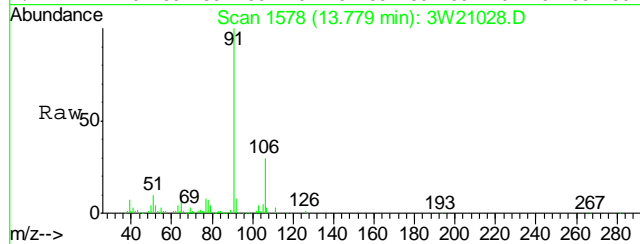
Ion 57.00 (56.70 to 57.70): 3W2





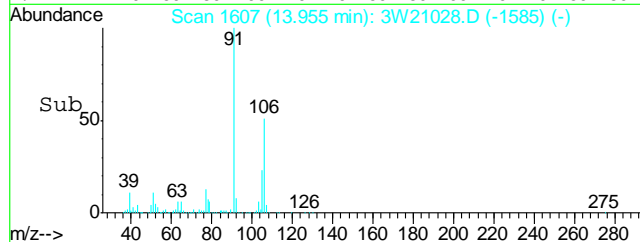
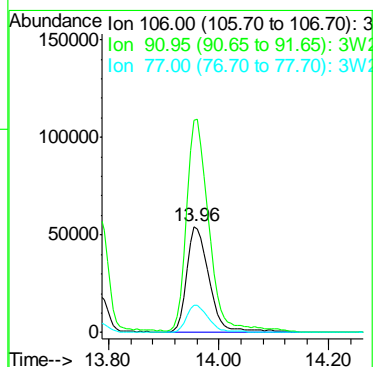
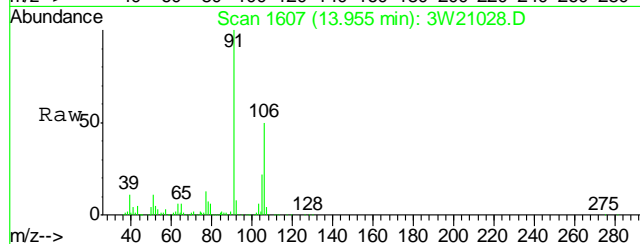
#70
ETHYLBENZENE
Concen: 2.88 PPBV
RT: 13.78 min Scan# 1578
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

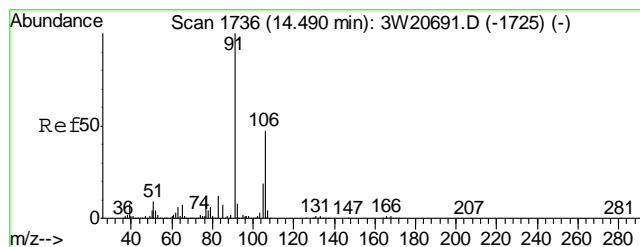
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	11.5	51.5
77	8.3	0.0	28.4



#71
m,p-XYLENE
Concen: 8.44 PPBV
RT: 13.96 min Scan# 1607
Delta R.T. -0.02 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

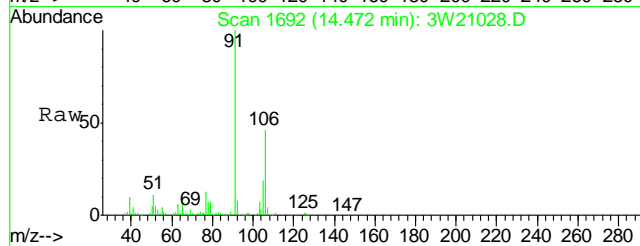
Tgt Ion	Ratio	Lower	Upper
106	100		
91	200.3	176.1	216.1
77	25.3	4.4	44.4



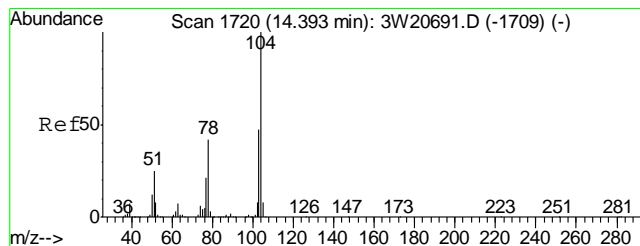
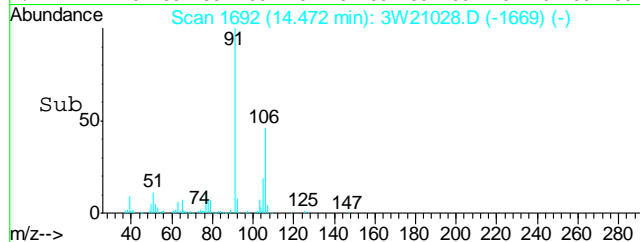
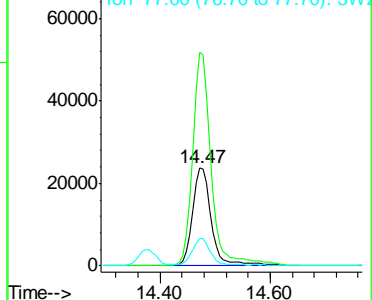


#72
o-XYLENE
Concen: 3.32 PPBV
RT: 14.47 min Scan# 1692
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

Tgt Ion	Ratio	Lower	Upper
106	100		
91	212.6	186.8	226.8
77	26.9	3.9	43.9

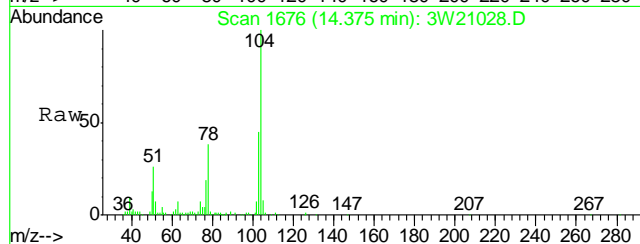


Abundance Ion 106.00 (105.70 to 106.70): 3
Ion 91.00 (90.70 to 91.70): 3W2
Ion 77.00 (76.70 to 77.70): 3W2

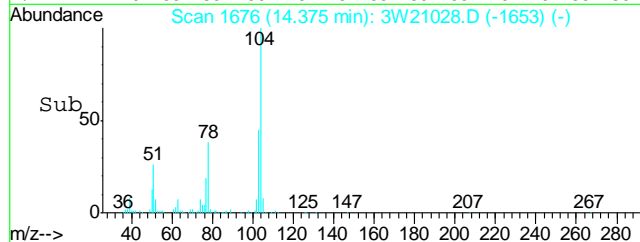
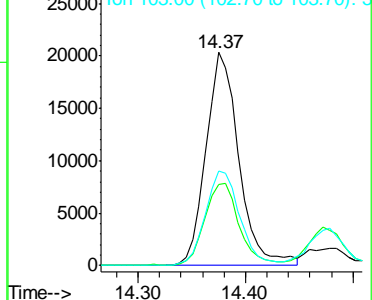


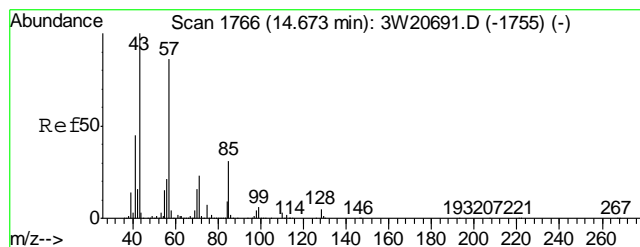
#73
STYRENE
Concen: 2.18 PPBV
RT: 14.37 min Scan# 1676
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

Tgt Ion	Ratio	Lower	Upper
104	100		
78	40.7	19.0	59.0
103	46.0	27.2	67.2



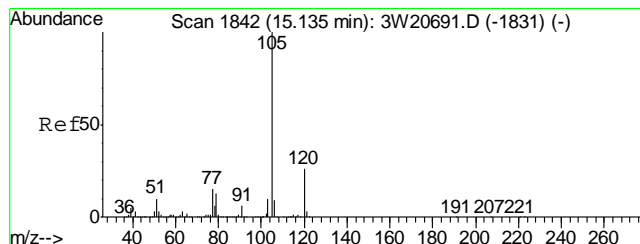
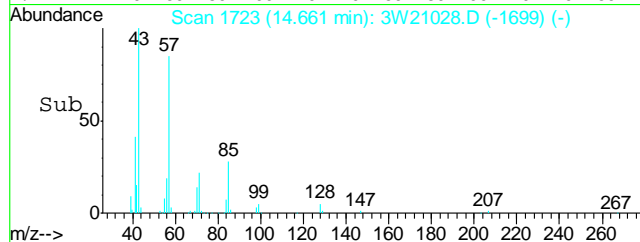
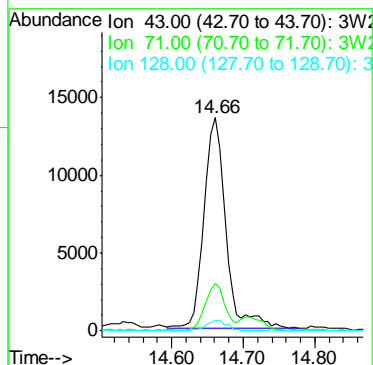
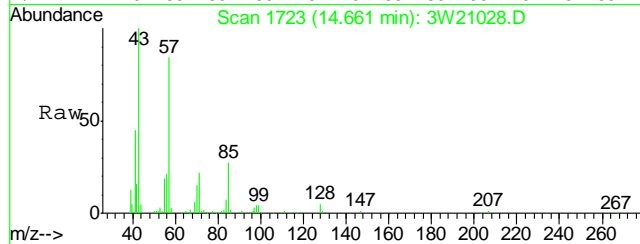
Abundance Ion 104.00 (103.70 to 104.70): 3
Ion 78.00 (77.70 to 78.70): 3W2
Ion 103.00 (102.70 to 103.70): 3





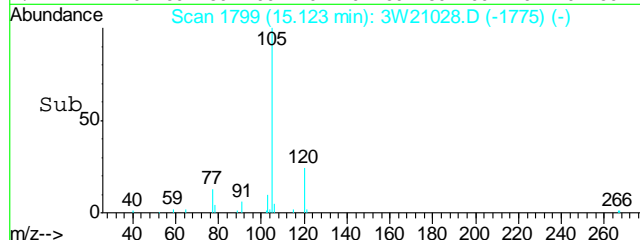
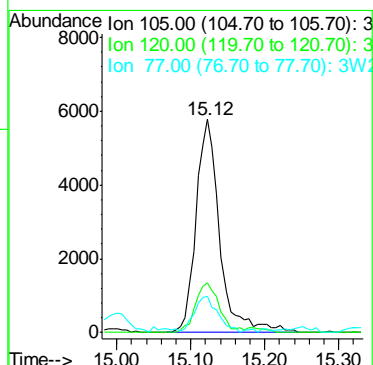
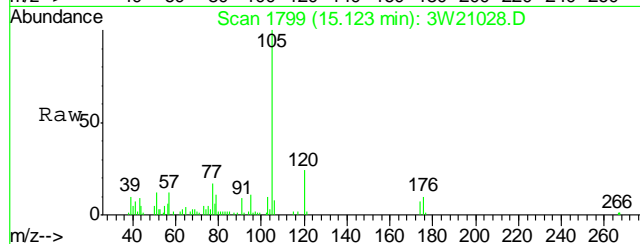
#74
NONANE
Concen: 1.00 PPBV
RT: 14.66 min Scan# 1723
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

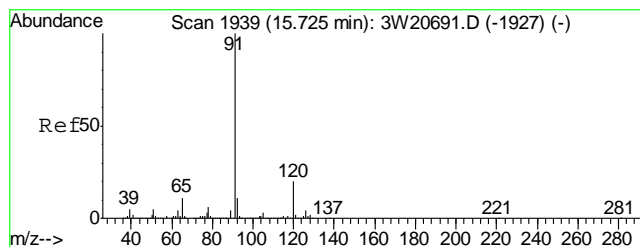
Tgt Ion	Ratio	Lower	Upper
43	100		
71	20.9	4.4	44.4
128	4.9	0.0	26.2



#79
ISOPROPYLBENZENE
Concen: 0.28 PPBV
RT: 15.12 min Scan# 1799
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

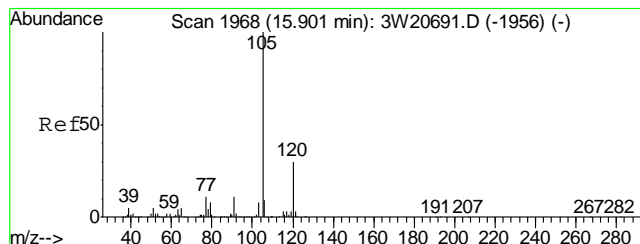
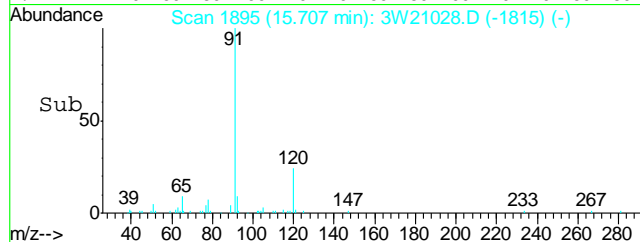
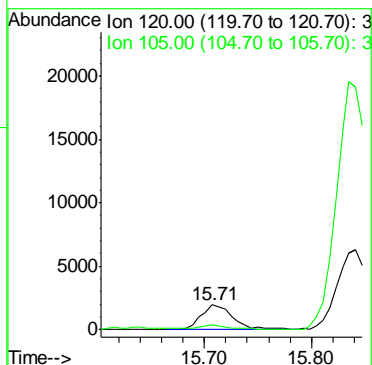
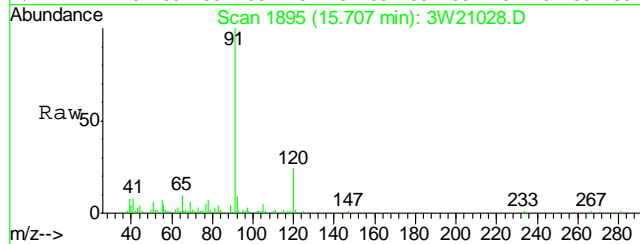
Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.6	6.4	46.4
77	16.8	0.0	34.3





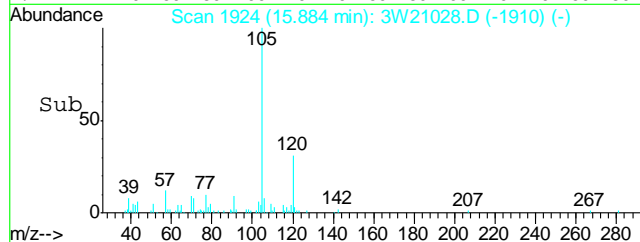
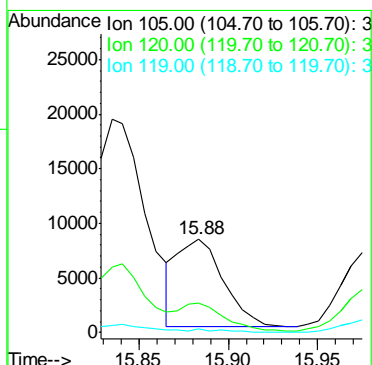
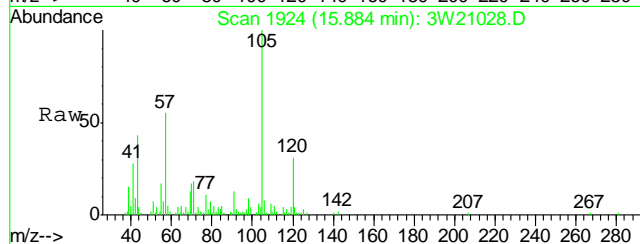
#81
n-PROPYLBENZENE
Concen: 0.38 PPBV
RT: 15.71 min Scan# 1895
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

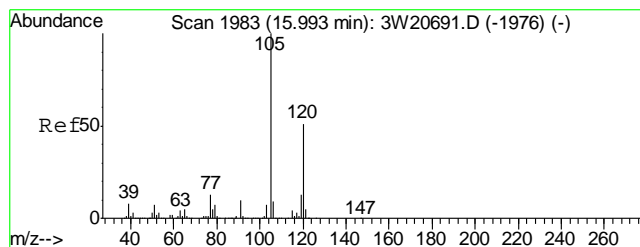
Tgt Ion:120 Resp: 4141
Ion Ratio Lower Upper
120 100
105 19.1 0.0 36.5



#82
4-ETHYLTOLUENE
Concen: 0.41 PPBV
RT: 15.88 min Scan# 1924
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

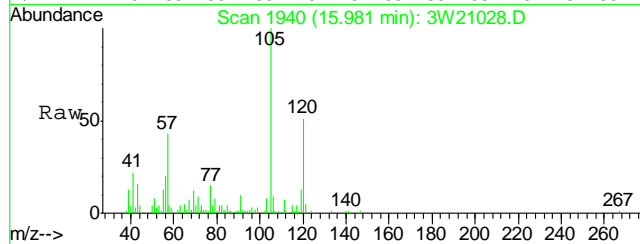
Tgt Ion:105 Resp: 14340
Ion Ratio Lower Upper
105 100
120 31.3 10.0 50.0
119 2.6 0.0 22.6





#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.58 PPBV
RT: 15.98 min Scan# 1940
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.2	31.4	71.4
91	9.1	0.0	29.6

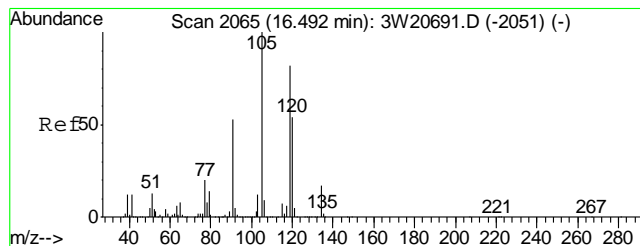
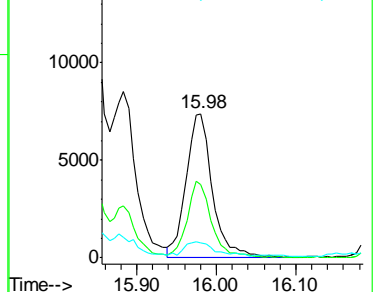
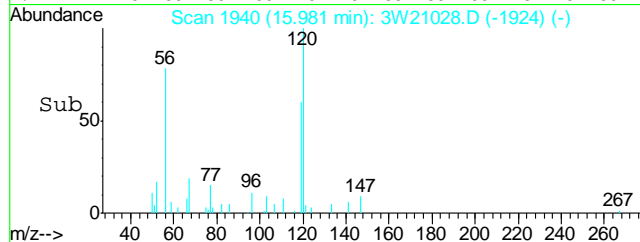


Abundance

Ion 104.95 (104.65 to 105.65): 3

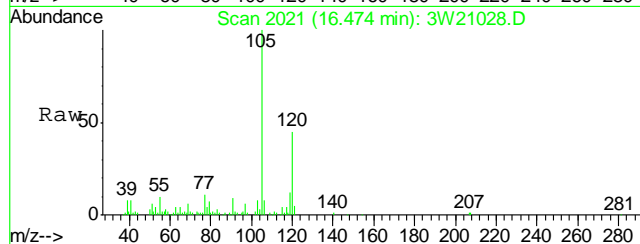
Ion 119.95 (119.65 to 120.65): 3

Ion 90.95 (90.65 to 91.65): 3W2



#85
1,2,4-TRIMETHYLBENZENE
Concen: 1.35 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W21028.D
Acq: 26 Feb 2011 2:15 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	39.2	79.2
119	13.0	104.5	144.5#

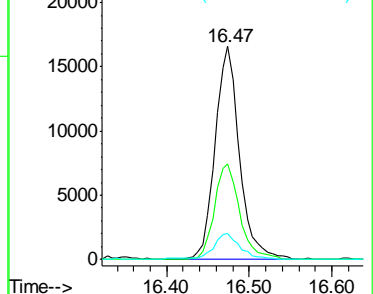
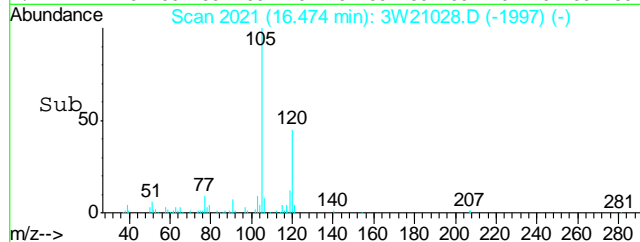


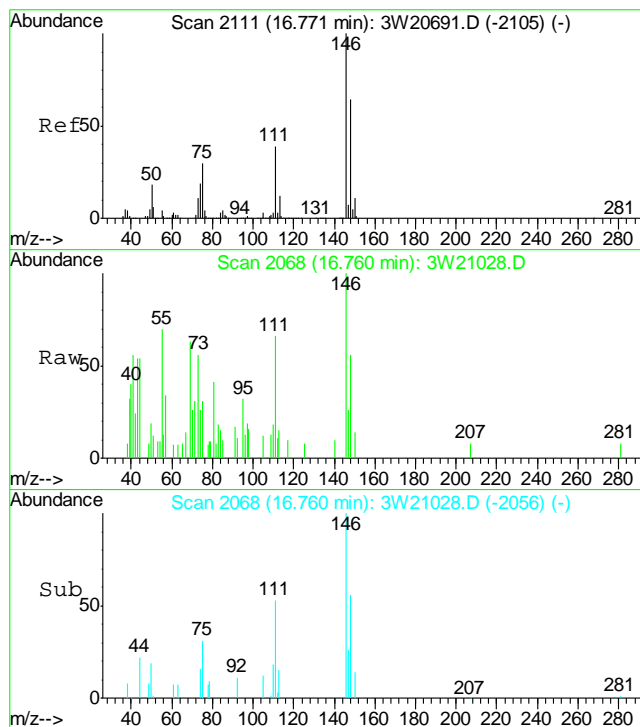
Abundance

Ion 105.00 (104.70 to 105.70): 3

Ion 120.00 (119.70 to 120.70): 3

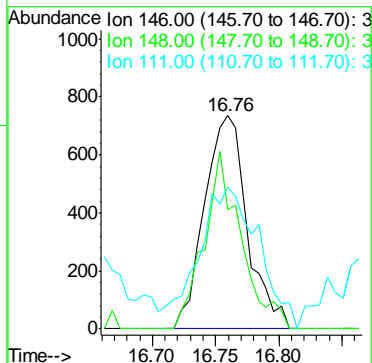
Ion 119.00 (118.70 to 119.70): 3





#88
 p-DICHLOROBENZENE
 Concen: 0.11 PPBV
 RT: 16.76 min Scan# 2068
 Delta R.T. -0.01 min
 Lab File: 3W21028.D
 Acq: 26 Feb 2011 2:15 am

Tgt Ion:	146	Resp:	1728
Ion Ratio	Lower	Upper	
146	100		
148	71.8	44.2	84.2
111	93.9	14.5	54.5#



Kanya Veerawat
03/10/11 05:18

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20988.D Vial: 7
 Acq On : 24 Feb 2011 8:16 pm Operator: yunxiac
 Sample : ja68565-6 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:10:56 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	142482	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	689845	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	325420	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	325827	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 188983 5.46 PPBV -0.01
 Spiked Amount 5.000 Range 65 - 128 Recovery = 109.20%

Target Compounds

						Qvalue
5) DICHLORODIFLUOROMETHANE	4.38	85	5078	0.12	PPBV	99
6) PROPYLENE	4.34	41	7468	0.47	PPBV #	80
11) n-BUTANE	4.72	43	10265	0.37	PPBV #	94
17) ISOPROPYL ALCOHOL	5.60	45	97922	4.21	PPBV	92
18) ACETONE	5.37	58	234906	41.74	PPBV	91
23) CARBON DISULFIDE	6.17	76	19139	0.38	PPBV	92
24) ETHANOL	5.12	45	187388	32.29	PPBV	99
30) TERTIARY BUTYL ALCOHOL	6.00	59	40178	1.51	PPBV	88
33) HEXANE	7.49	57	3887	0.15	PPBV #	82
36) METHYL ETHYL KETONE	7.09	72	6458	1.23	PPBV #	83
39) ETHYL ACETATE	7.60	61	8258	2.24	PPBV #	93
46) BENZENE	8.88	78	4502	0.11	PPBV	95
49) TRICHLOROETHYLENE	9.81	95	14808	0.73	PPBV	94
54) HEPTANE	9.99	43	4040	0.14	PPBV #	83
57) METHYL ISOBUTYL KETONE	10.71	58	3935	0.43	PPBV	96
59) TOLUENE	11.56	92	33167	1.25	PPBV	99
63) 2-HEXANONE	11.91	58	1116	0.10	PPBV	97
64) TETRACHLOROETHYLENE	12.70	164	3492	0.15	PPBV	99
67) OCTANE	12.48	43	7310	0.20	PPBV	90
70) ETHYLBENZENE	13.78	91	42932	0.84	PPBV	97
71) m,p-XYLENE	13.96	106	67621	3.53	PPBV	99
72) o-XYLENE	14.47	106	27783	1.54	PPBV	94
73) STYRENE	14.38	104	25905	1.22	PPBV	98
74) NONANE	14.66	43	15003	0.50	PPBV	96
81) n-PROPYLBENZENE	15.71	120	3796	0.33	PPBV	84
82) 4-ETHYLTOLUENE	15.88	105	21896m	0.59	PPBV	
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	24918	0.79	PPBV	96
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	59314	2.19	PPBV #	28
88) p-DICHLOROBENZENE	16.76	146	5650	0.33	PPBV	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20988.D M3W821.M Fri Feb 25 10:20:29 2011 MS3W

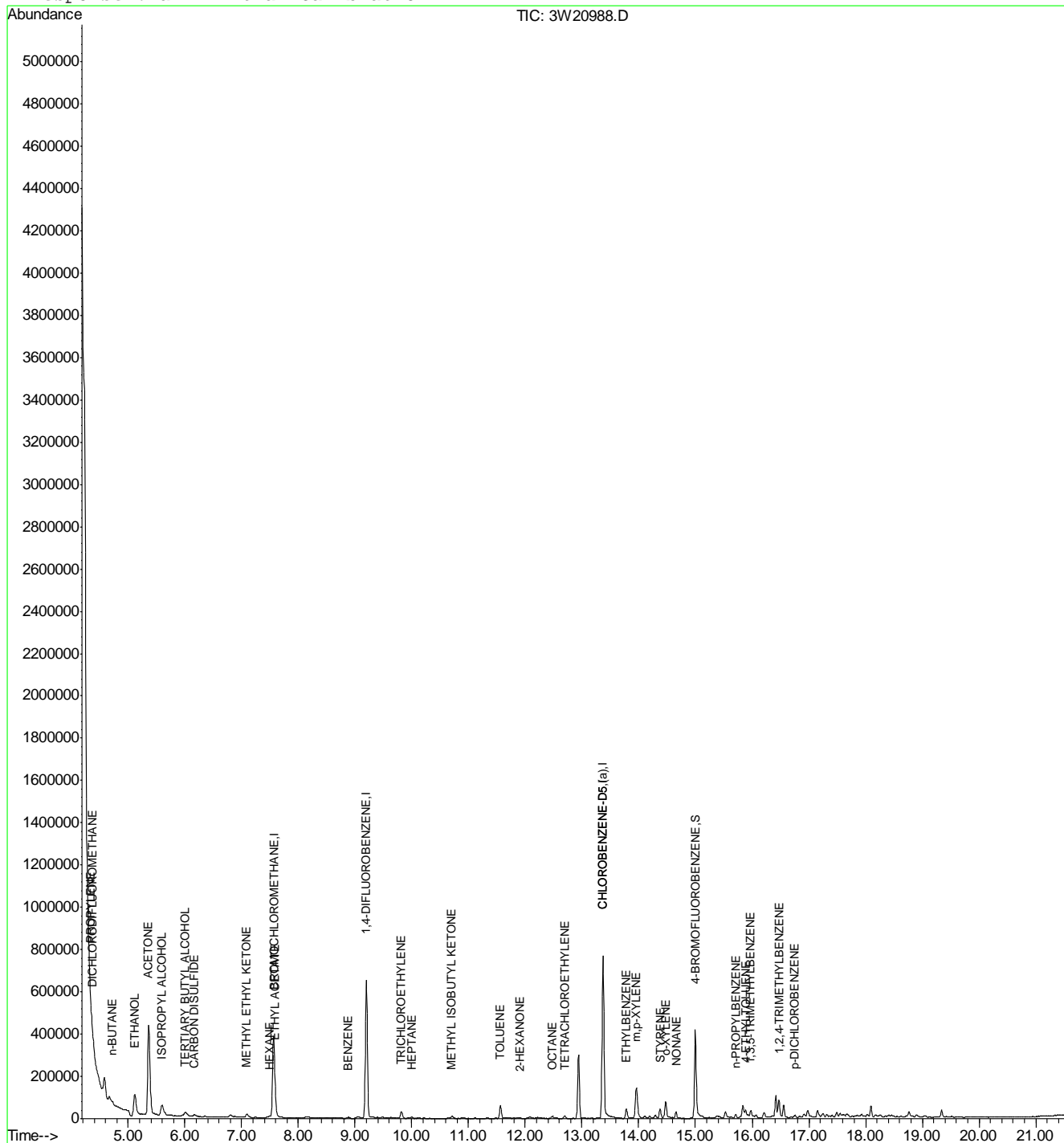
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20988.D
Acq On : 24 Feb 2011 8:16 pm
Sample : ja68565-6
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:17 2011

Vial: 7
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

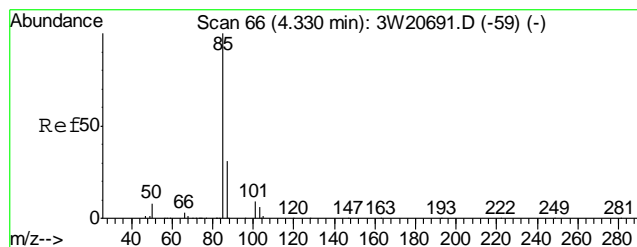


3W20988.D M3W821.M

Fri Feb 25 10:20:29 2011

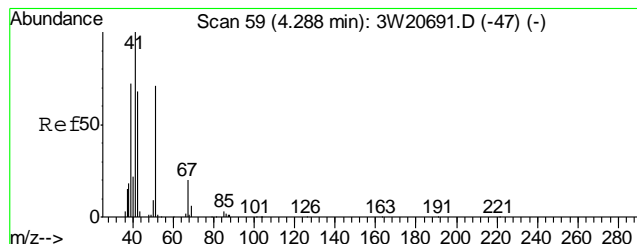
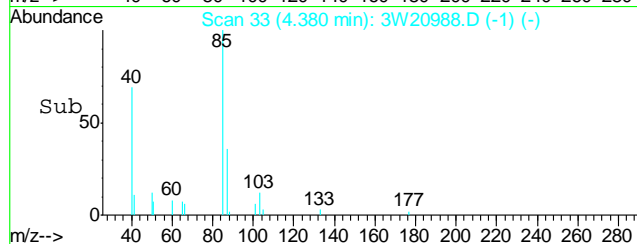
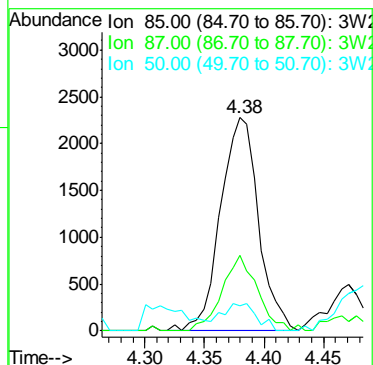
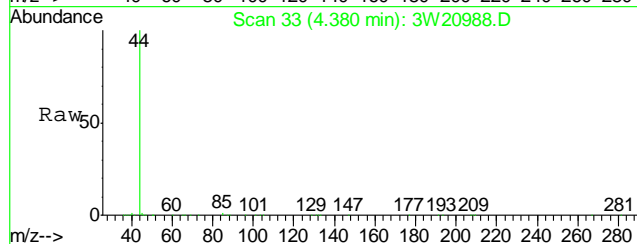
MS3W

Page 2



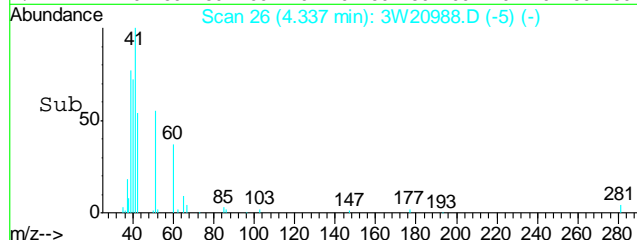
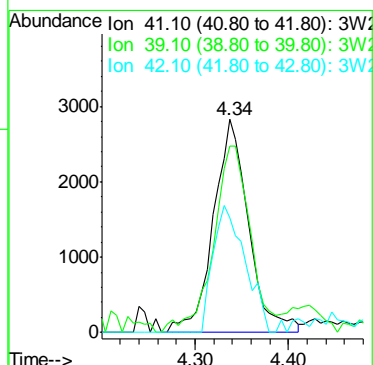
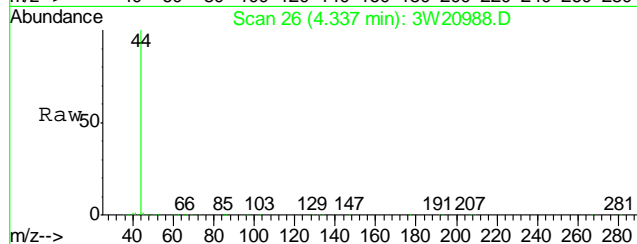
#5
DICHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 4.38 min Scan# 33
Delta R.T. 0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

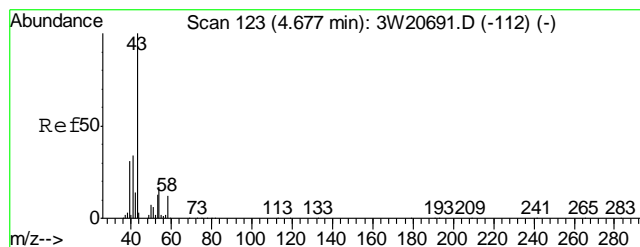
Tgt Ion:	85	Resp:	5078
Ion Ratio	Lower	Upper	
85	100		
87	33.2	12.9	52.9
50	12.1	0.0	30.6



#6
PROPYLENE
Concen: 0.47 PPBV
RT: 4.34 min Scan# 26
Delta R.T. 0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

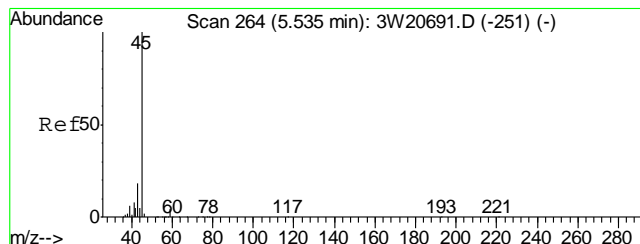
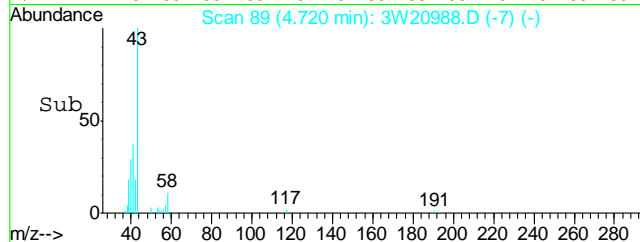
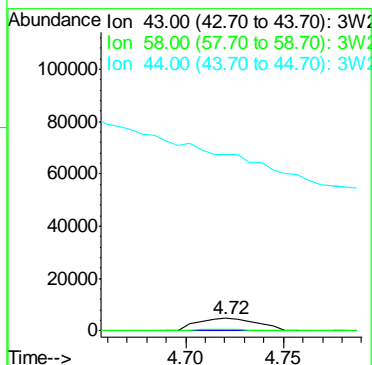
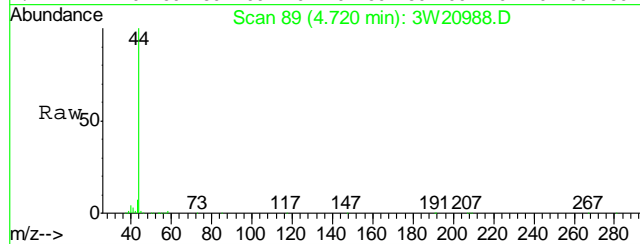
Tgt Ion:	41	Resp:	7468
Ion Ratio	Lower	Upper	
41	100		
39	91.1	50.7	90.7#
42	54.6	46.0	86.0





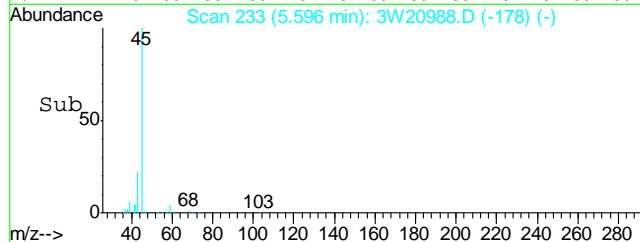
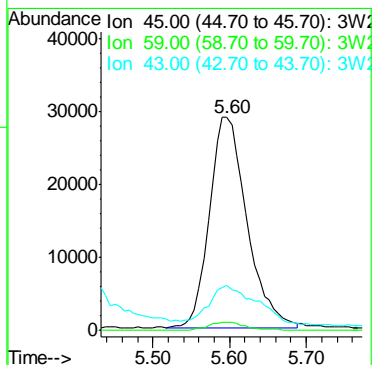
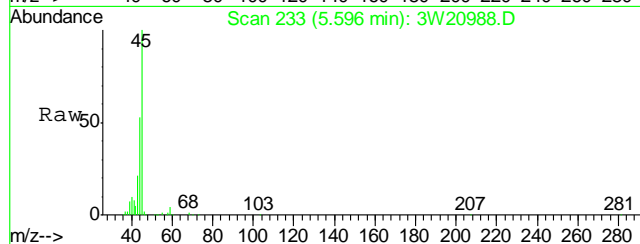
#11
n-BUTANE
Concen: 0.37 PPBV
RT: 4.72 min Scan# 89
Delta R.T. 0.00 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

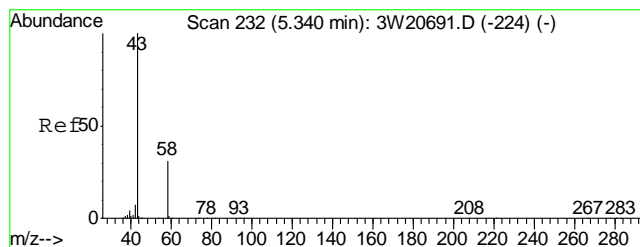
Tgt Ion:	43	Resp:	10265
Ion Ratio	Lower	Upper	
43	100		
58	10.7	0.0	32.1
44	0.0	0.0	23.9



#17
ISOPROPYL ALCOHOL
Concen: 4.21 PPBV
RT: 5.60 min Scan# 233
Delta R.T. 0.04 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

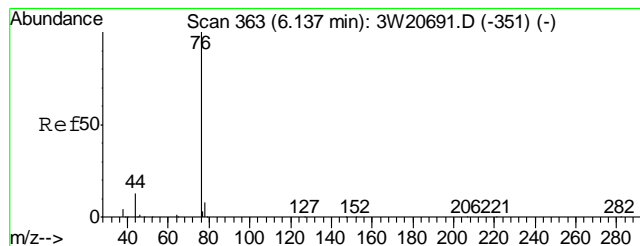
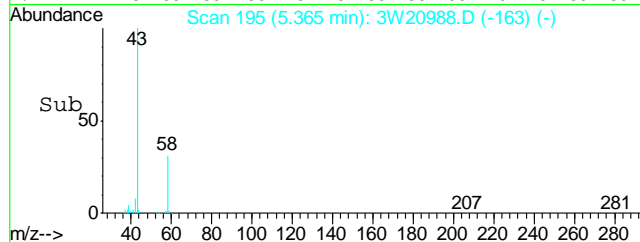
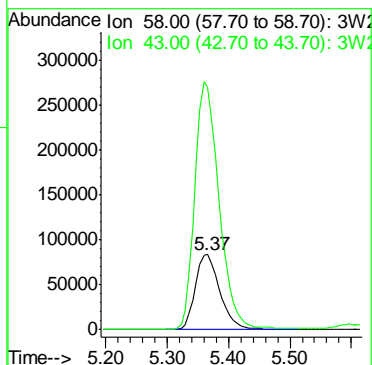
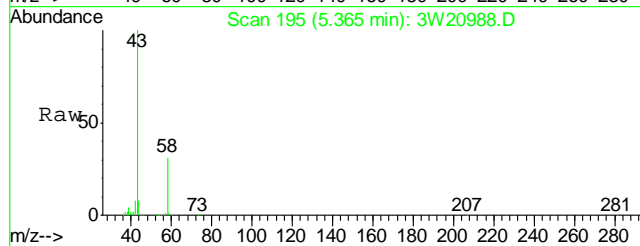
Tgt Ion:	45	Resp:	97922
Ion Ratio	Lower	Upper	
45	100		
59	4.0	0.0	23.7
43	21.4	0.0	37.4





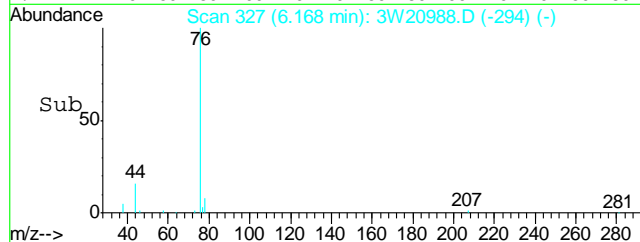
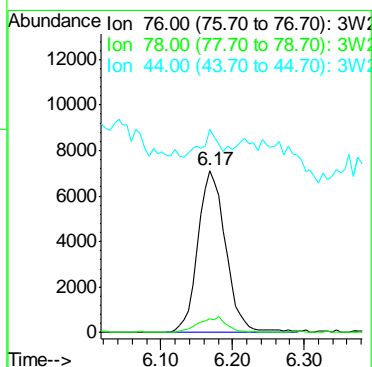
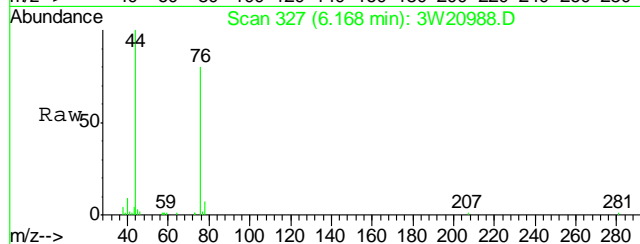
#18
 ACETONE
 Concen: 41.74 PPBV
 RT: 5.37 min Scan# 195
 Delta R.T. -0.01 min
 Lab File: 3W20988.D
 Acq: 24 Feb 2011 8:16 pm

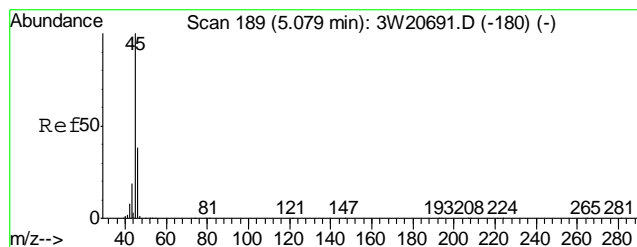
Tgt Ion: 58 Resp: 234906
 Ion Ratio Lower Upper
 58 100
 43 327.4 289.1 329.1



#23
 CARBON DISULFIDE
 Concen: 0.38 PPBV
 RT: 6.17 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: 3W20988.D
 Acq: 24 Feb 2011 8:16 pm

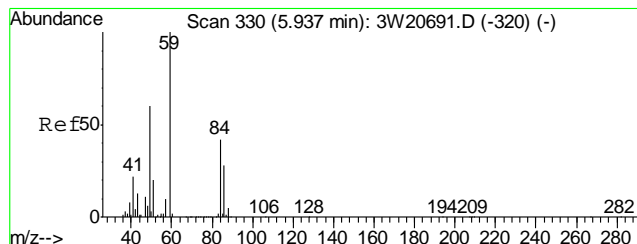
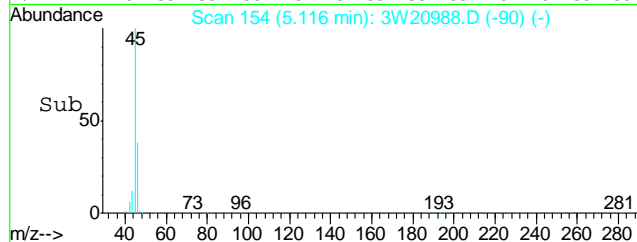
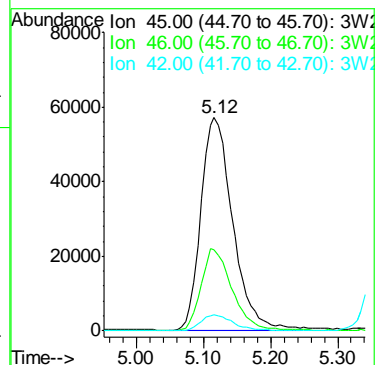
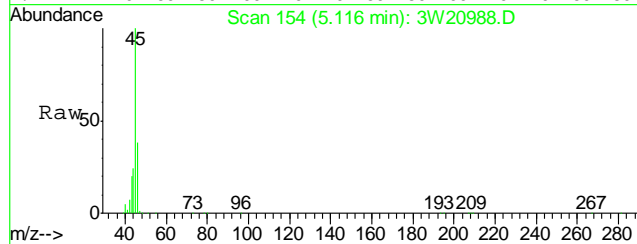
Tgt Ion: 76 Resp: 19139
 Ion Ratio Lower Upper
 76 100
 78 9.7 0.0 30.5
 44 16.5 0.0 31.7





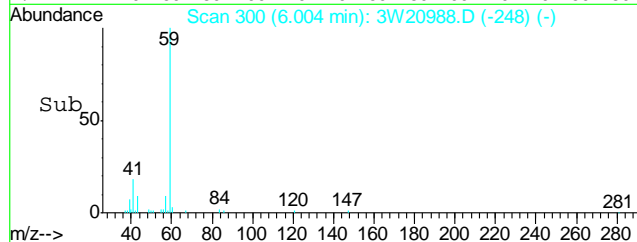
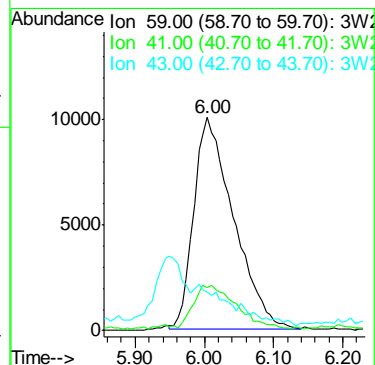
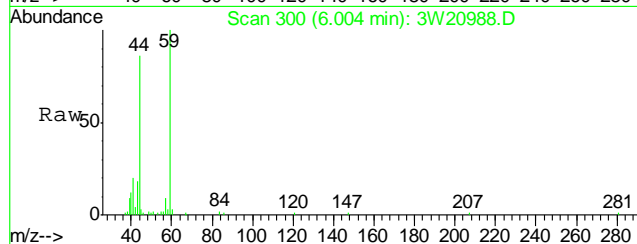
#24
ETHANOL
Concen: 32.29 PPBV
RT: 5.12 min Scan# 154
Delta R.T. 0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

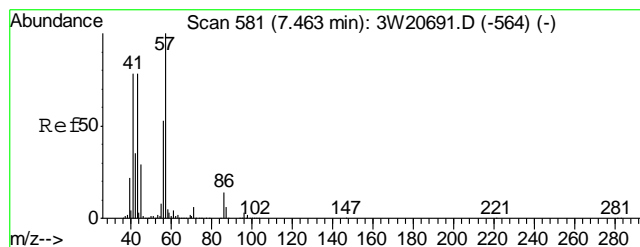
Tgt Ion: 45 Resp: 187388
Ion Ratio Lower Upper
45 100
46 37.6 18.2 58.2
42 7.8 0.0 27.7



#30
TERTIARY BUTYL ALCOHOL
Concen: 1.51 PPBV
RT: 6.00 min Scan# 300
Delta R.T. 0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

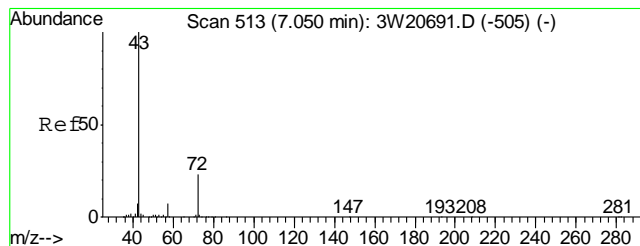
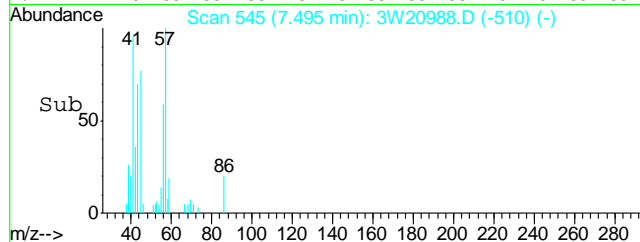
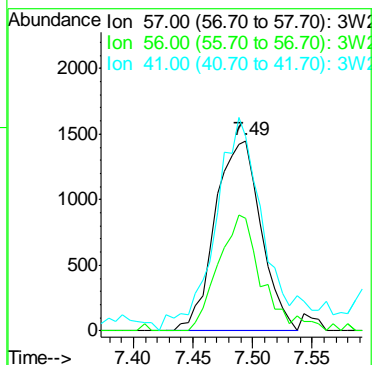
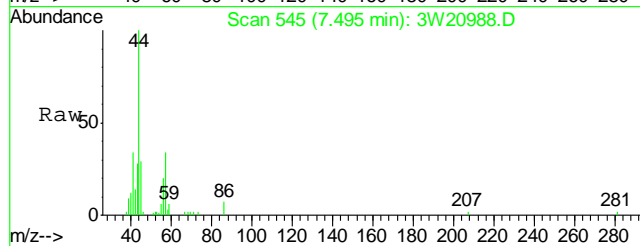
Tgt Ion: 59 Resp: 40178
Ion Ratio Lower Upper
59 100
41 21.9 0.0 38.0
43 19.5 0.0 33.0





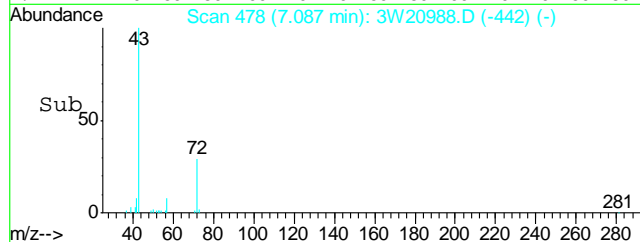
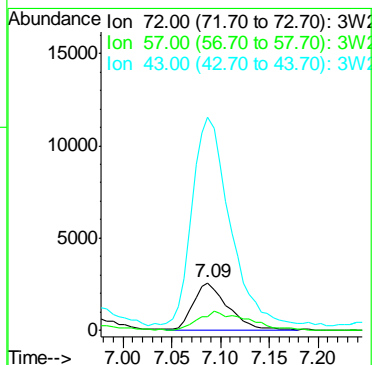
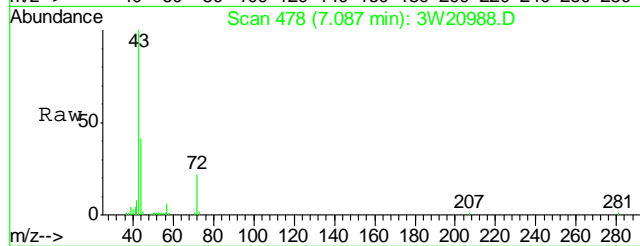
#33
 HEXANE
 Concen: 0.15 PPBV
 RT: 7.49 min Scan# 545
 Delta R.T. 0.01 min
 Lab File: 3W20988.D
 Acq: 24 Feb 2011 8:16 pm

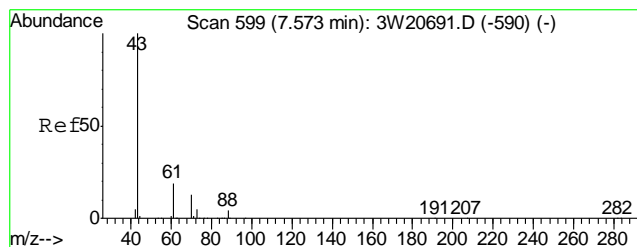
Tgt Ion	Resp	Lower	Upper
57	100		
56	57.9	30.5	70.5
41	120.1	79.2	119.2#



#36
 METHYL ETHYL KETONE
 Concen: 1.23 PPBV
 RT: 7.09 min Scan# 478
 Delta R.T. 0.01 min
 Lab File: 3W20988.D
 Acq: 24 Feb 2011 8:16 pm

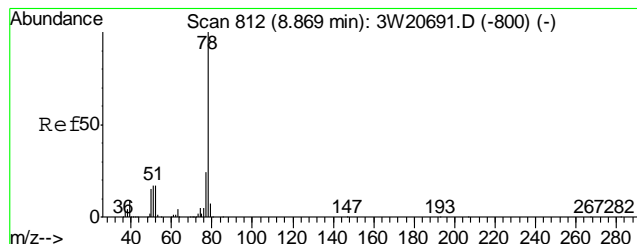
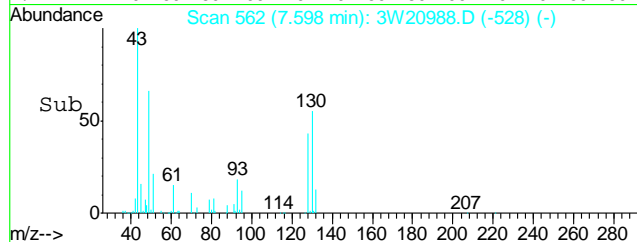
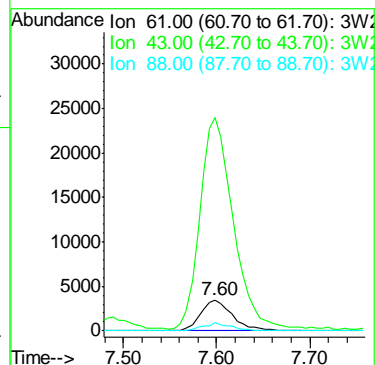
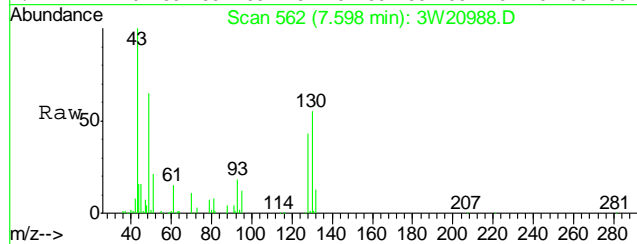
Tgt Ion	Resp	Lower	Upper
72	100		
57	28.9	11.3	51.3
43	447.2	384.1	424.1#





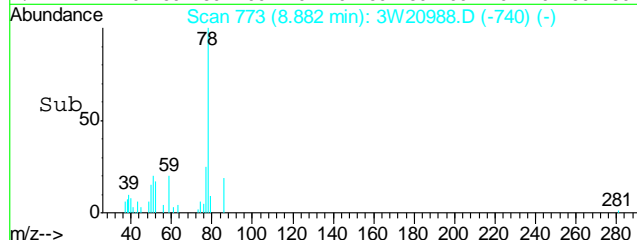
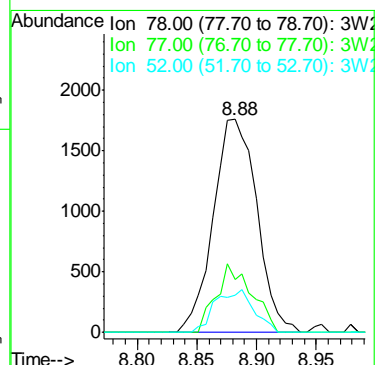
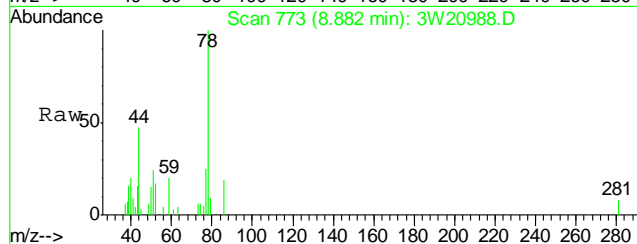
#39
ETHYL ACETATE
Concen: 2.24 PPBV
RT: 7.60 min Scan# 562
Delta R.T. 0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

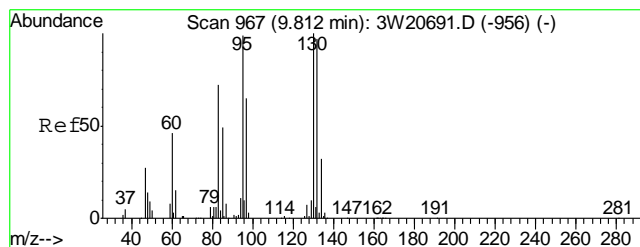
Tgt Ion	Ratio	Lower	Upper
61	100		
43	728.0	682.3	722.3
88	22.5	6.1	46.1



#46
BENZENE
Concen: 0.11 PPBV
RT: 8.88 min Scan# 773
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

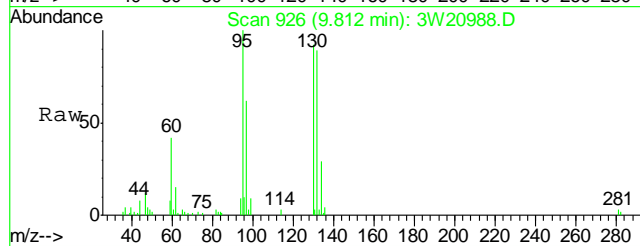
Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.3	3.6	43.6
52	17.8	0.0	35.5





#49
TRICHLOROETHYLENE
Concen: 0.73 PPBV
RT: 9.81 min Scan# 926
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
132	96.4	83.4	123.4
130	99.6	87.1	127.1
97	63.6	44.2	84.2



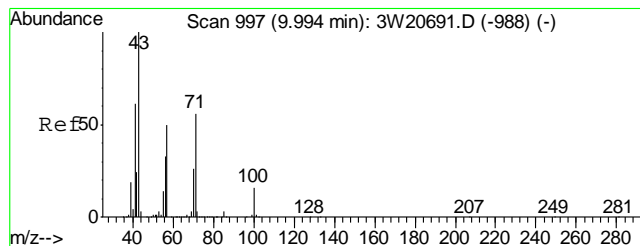
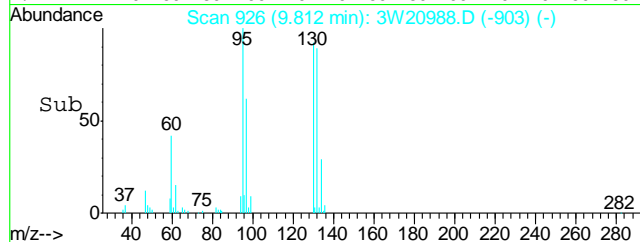
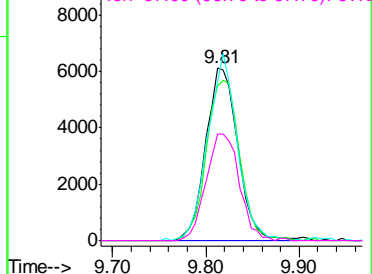
Abundance

Ion 95.00 (94.70 to 95.70): 3W20988.D

Ion 132.00 (131.70 to 132.70): 3W20988.D

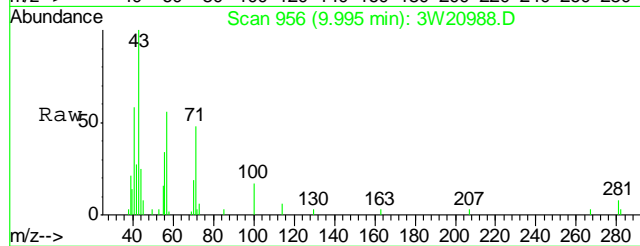
Ion 130.00 (129.70 to 130.70): 3W20988.D

Ion 97.00 (96.70 to 97.70): 3W20988.D



#54
HEPTANE
Concen: 0.14 PPBV
RT: 9.99 min Scan# 956
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
71	52.3	36.1	76.1
57	73.1	32.3	72.3#

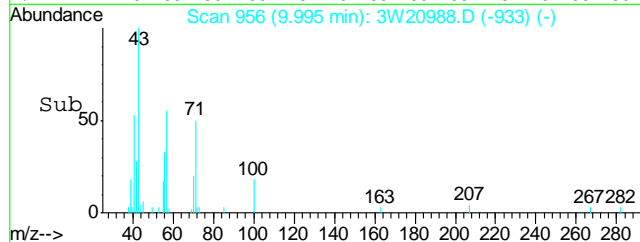
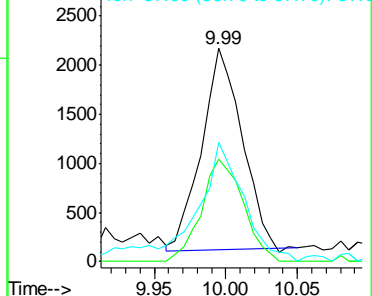


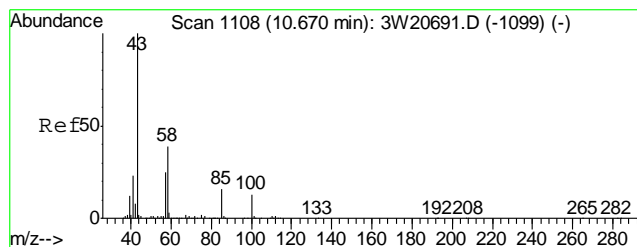
Abundance

Ion 43.00 (42.70 to 43.70): 3W20988.D

Ion 71.00 (70.70 to 71.70): 3W20988.D

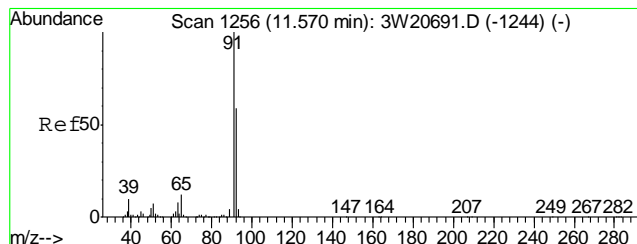
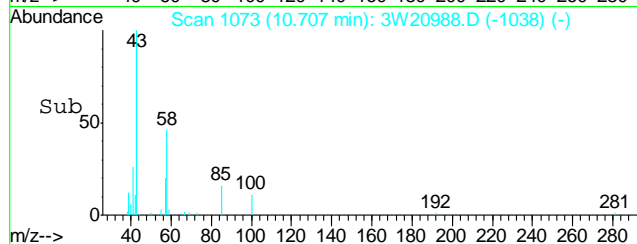
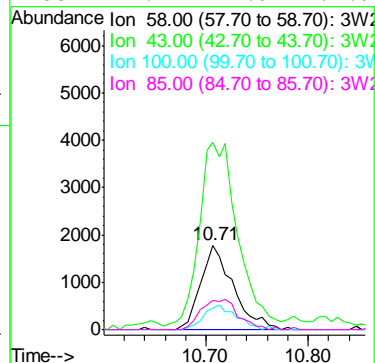
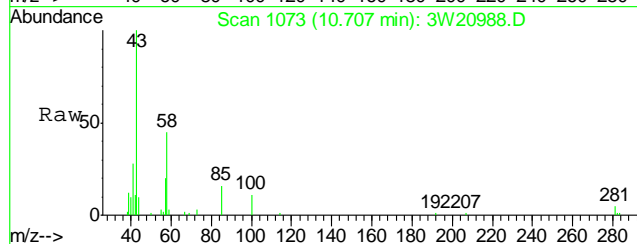
Ion 57.00 (56.70 to 57.70): 3W20988.D





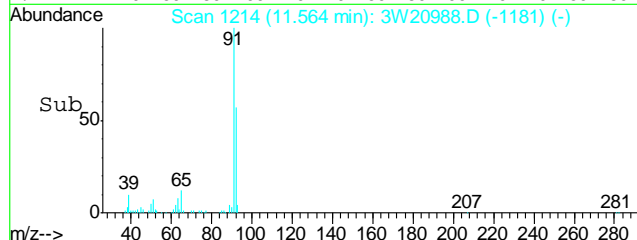
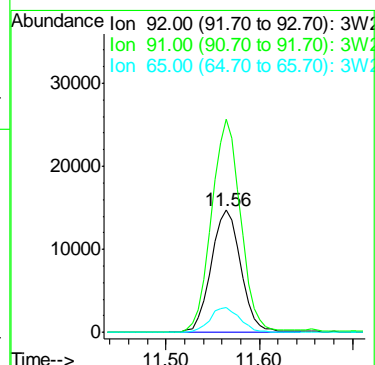
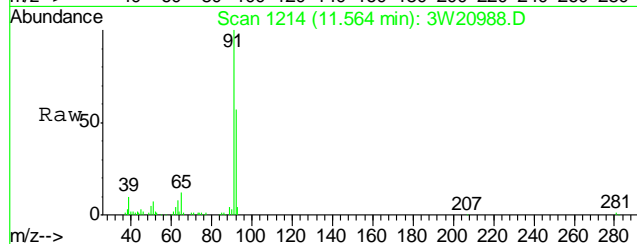
#57
METHYL ISOBUTYL KETONE
Concen: 0.43 PPBV
RT: 10.71 min Scan# 1073
Delta R.T. 0.04 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

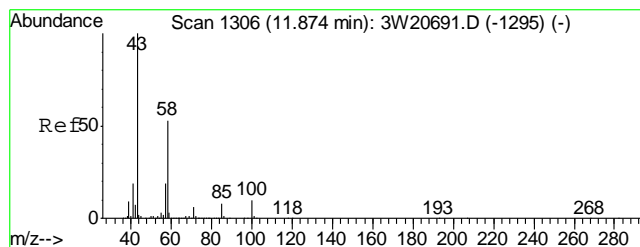
Tgt Ion:	58	Resp:	3935
Ion Ratio	Lower	Upper	
58	100		
43	254.4	229.3	269.3
100	29.6	14.1	54.1
85	41.2	24.9	64.9



#59
TOLUENE
Concen: 1.25 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

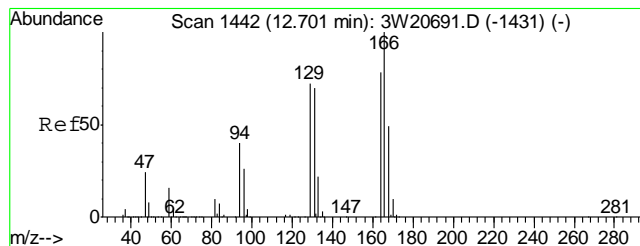
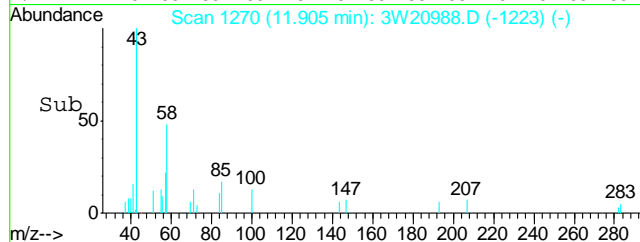
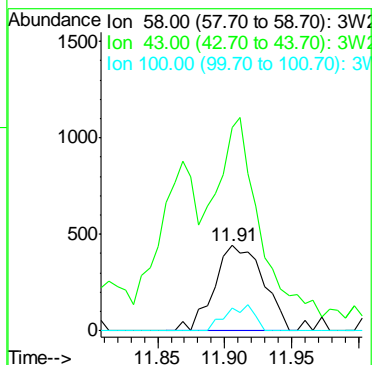
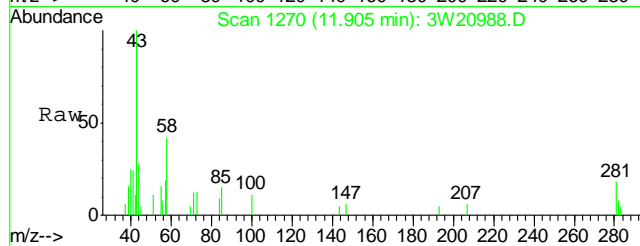
Tgt Ion:	92	Resp:	33167
Ion Ratio	Lower	Upper	
92	100		
91	169.7	148.6	188.6
65	20.5	0.0	38.0





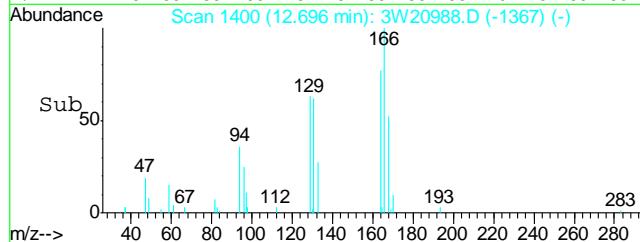
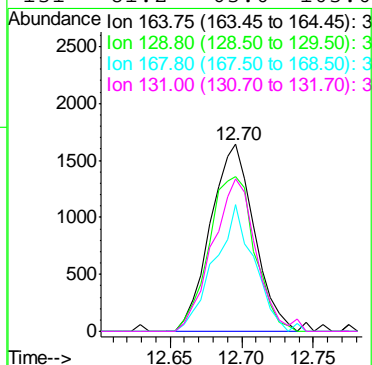
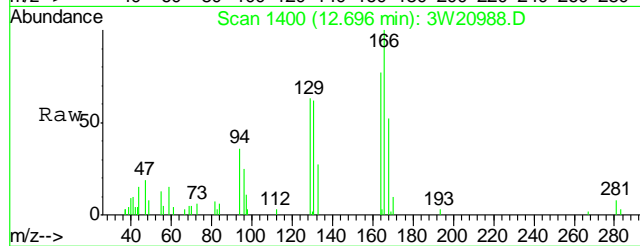
#63
2-HEXANONE
Concen: 0.10 PPBV
RT: 11.91 min Scan# 1270
Delta R.T. 0.04 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

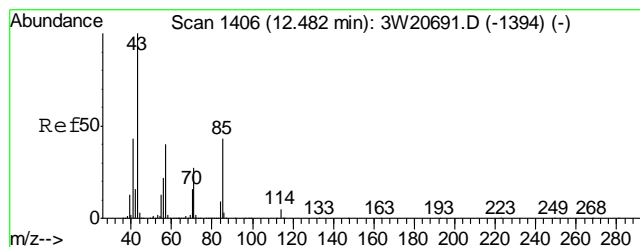
Tgt Ion	Resp	Lower	Upper
58	1116		
58	100		
43	190.9	166.4	206.4
100	18.0	0.0	39.6



#64
TETRACHLOROETHYLENE
Concen: 0.15 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

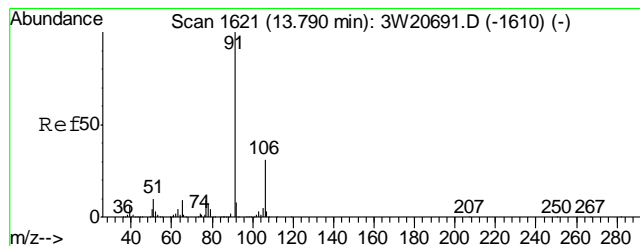
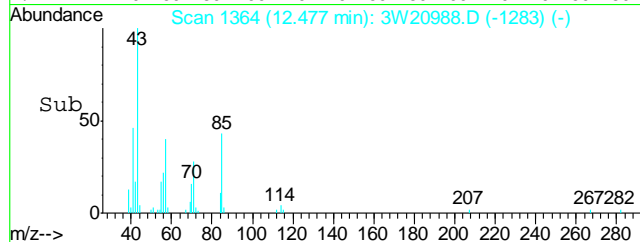
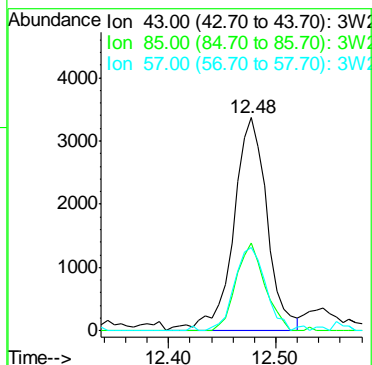
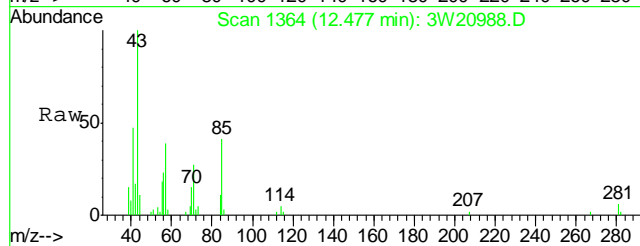
Tgt Ion	Resp	Lower	Upper
164	3492		
164	100		
129	86.6	65.6	105.6
168	61.7	42.3	82.3
131	81.2	63.0	103.0





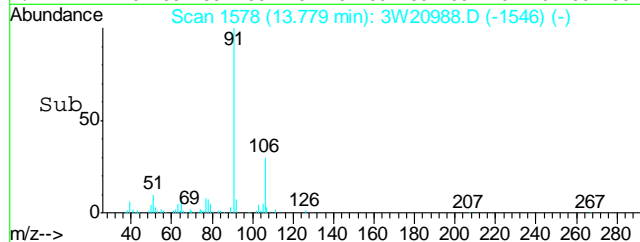
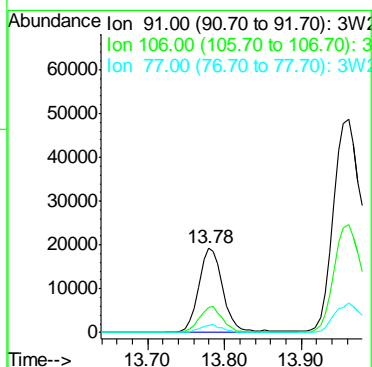
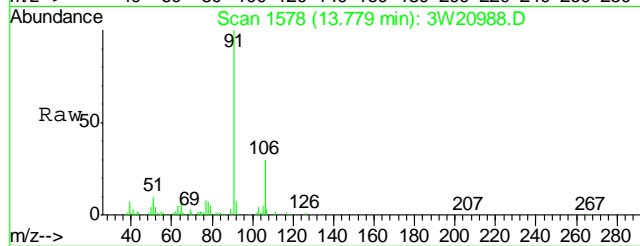
#67
OCTANE
Concen: 0.20 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

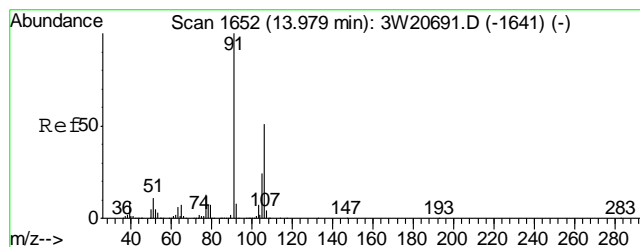
Tgt Ion: 43 Resp: 7310
Ion Ratio Lower Upper
43 100
85 35.4 24.9 64.9
57 36.7 19.9 59.9



#70
ETHYLBENZENE
Concen: 0.84 PPBV
RT: 13.78 min Scan# 1578
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

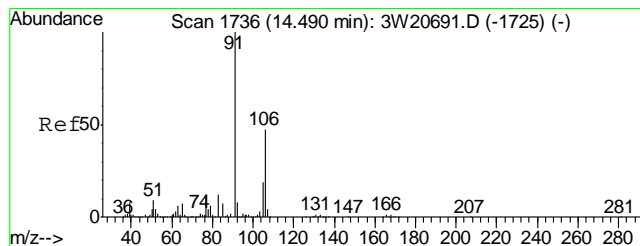
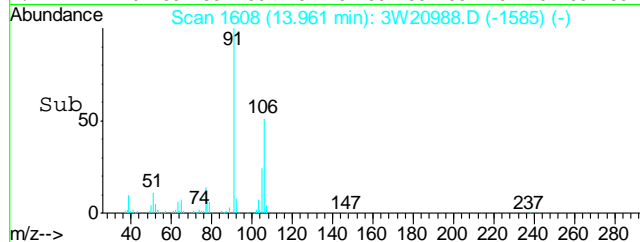
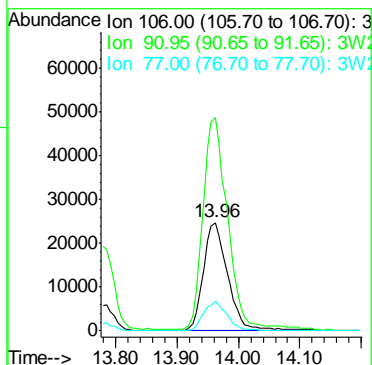
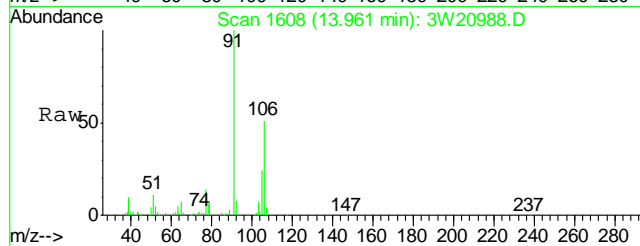
Tgt Ion: 91 Resp: 42932
Ion Ratio Lower Upper
91 100
106 29.5 11.5 51.5
77 8.4 0.0 28.4





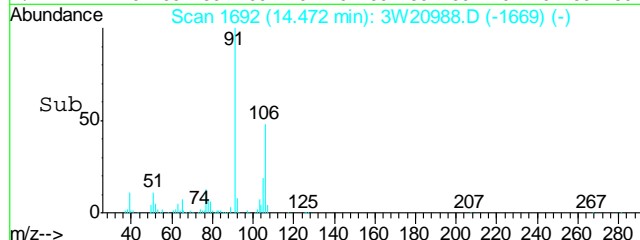
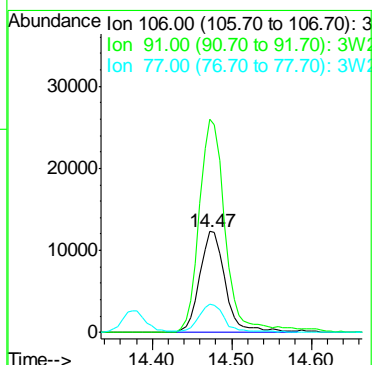
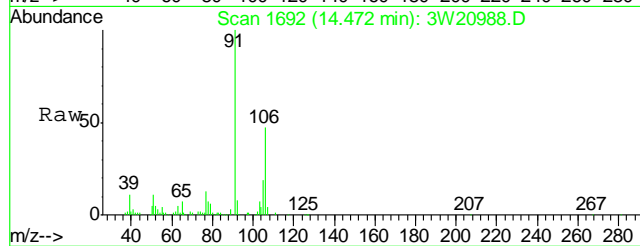
#71
m,p-XYLENE
Concen: 3.53 PPBV
RT: 13.96 min Scan# 1608
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

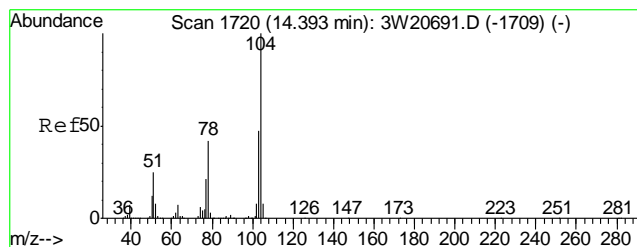
Tgt Ion	Ratio	Lower	Upper
106	100		
91	197.4	176.1	216.1
77	27.6	4.4	44.4



#72
o-XYLENE
Concen: 1.54 PPBV
RT: 14.47 min Scan# 1692
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

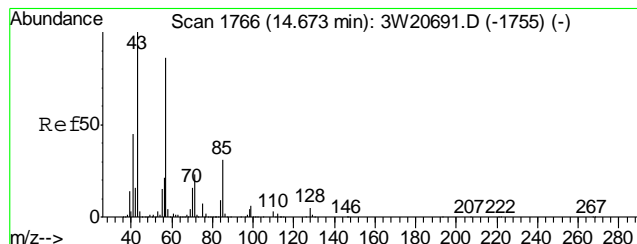
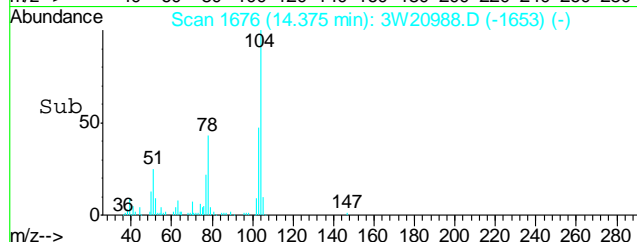
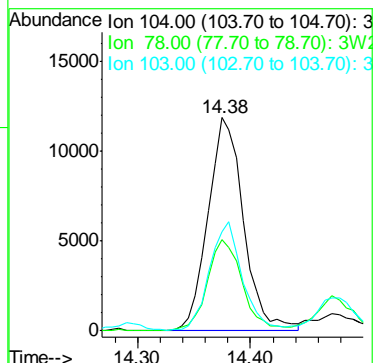
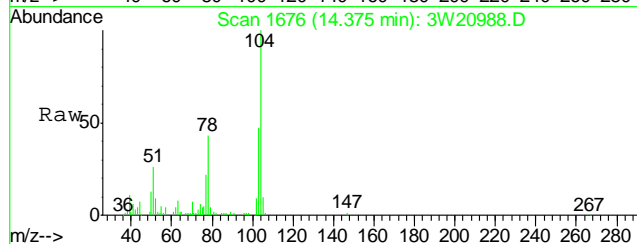
Tgt Ion	Ratio	Lower	Upper
106	100		
91	216.0	186.8	226.8
77	25.9	3.9	43.9





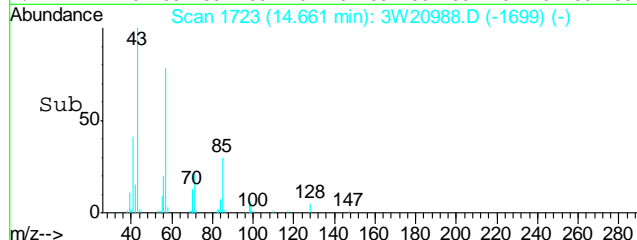
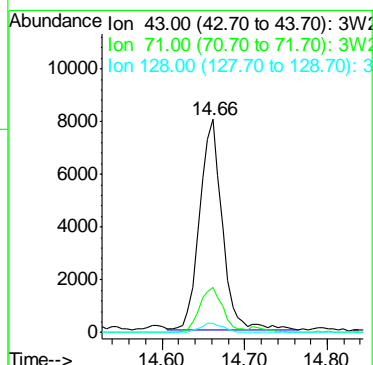
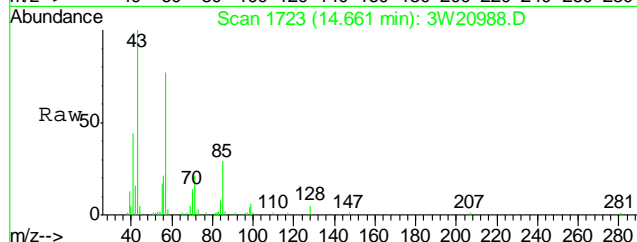
#73
 STYRENE
 Concen: 1.22 PPBV
 RT: 14.38 min Scan# 1676
 Delta R.T. -0.01 min
 Lab File: 3W20988.D
 Acq: 24 Feb 2011 8:16 pm

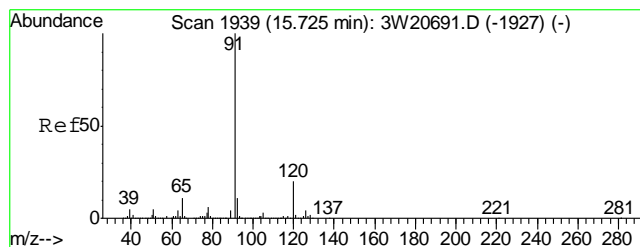
Tgt Ion	Ratio	Lower	Upper
104	100		
78	42.1	19.0	59.0
103	47.2	27.2	67.2



#74
 NONANE
 Concen: 0.50 PPBV
 RT: 14.66 min Scan# 1723
 Delta R.T. -0.01 min
 Lab File: 3W20988.D
 Acq: 24 Feb 2011 8:16 pm

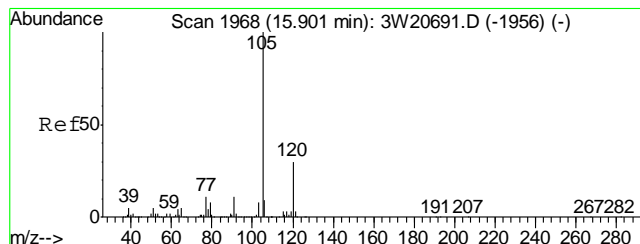
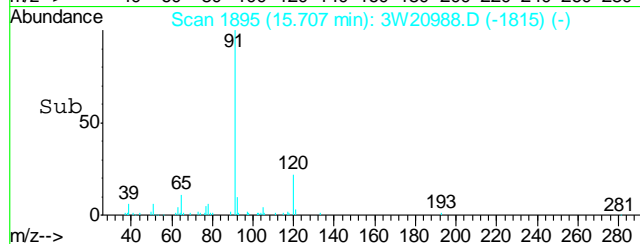
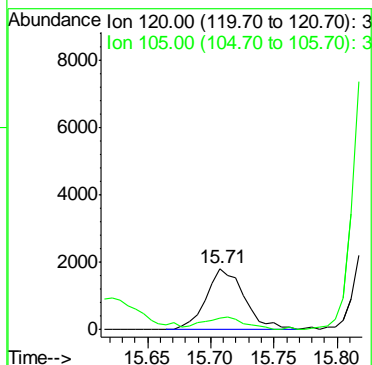
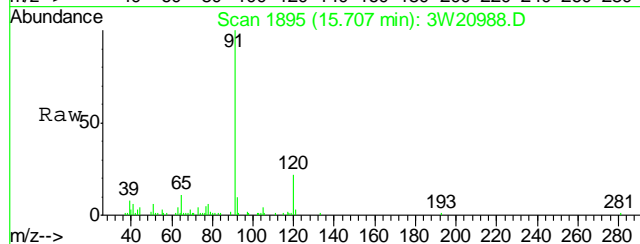
Tgt Ion	Ratio	Lower	Upper
43	100		
71	22.7	4.4	44.4
128	4.6	0.0	26.2





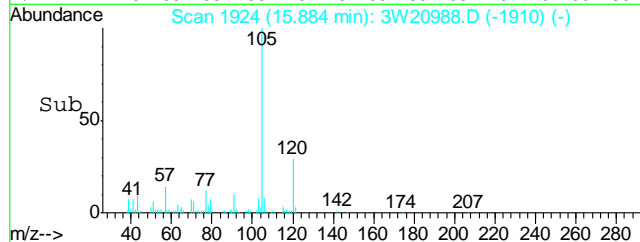
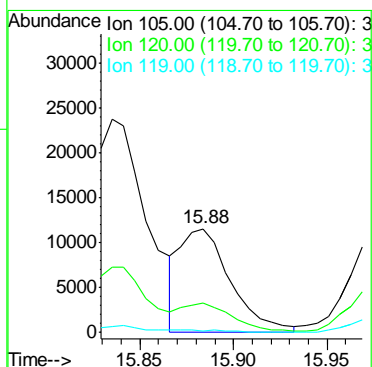
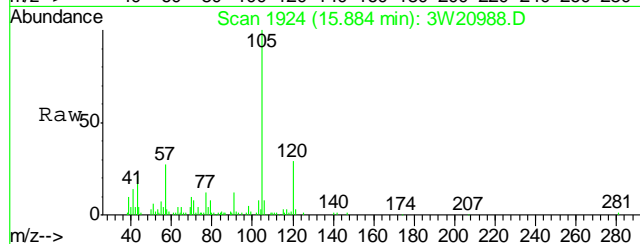
#81
n-PROPYLBENZENE
Concen: 0.33 PPBV
RT: 15.71 min Scan# 1895
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

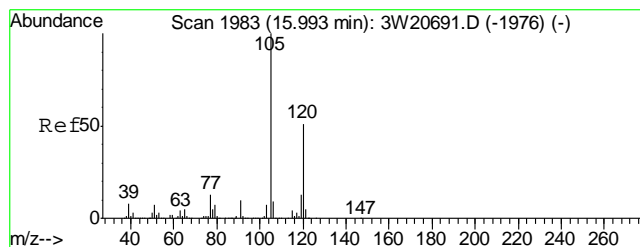
Tgt Ion:120 Resp: 3796
Ion Ratio Lower Upper
120 100
105 23.4 0.0 36.5



#82
4-ETHYLTOLUENE
Concen: 0.59 PPBV m
RT: 15.88 min Scan# 1924
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

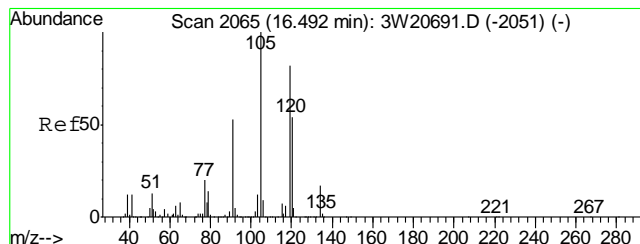
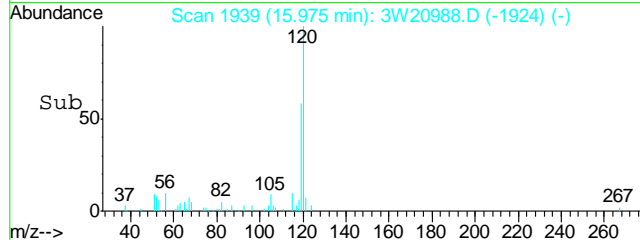
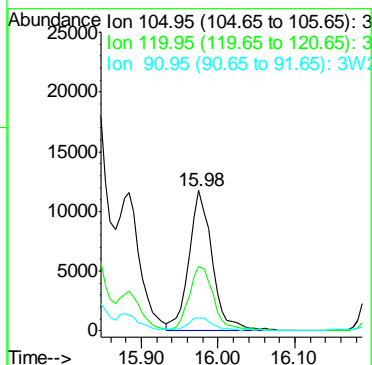
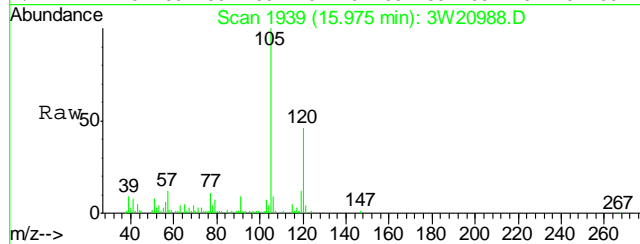
Tgt Ion:105 Resp: 21896
Ion Ratio Lower Upper
105 100
120 66.5 10.0 50.0#
119 9.6 0.0 22.6





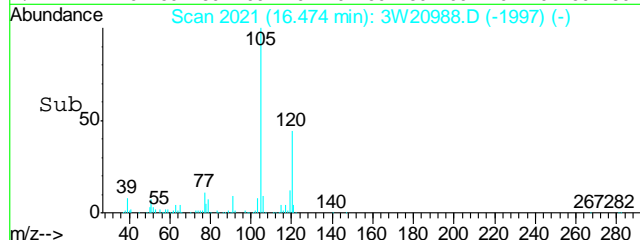
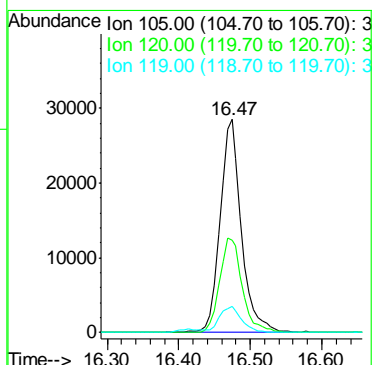
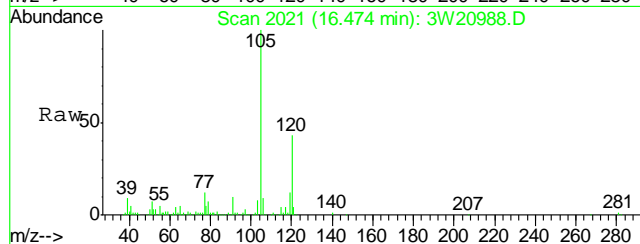
#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.79 PPBV
RT: 15.98 min Scan# 1939
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

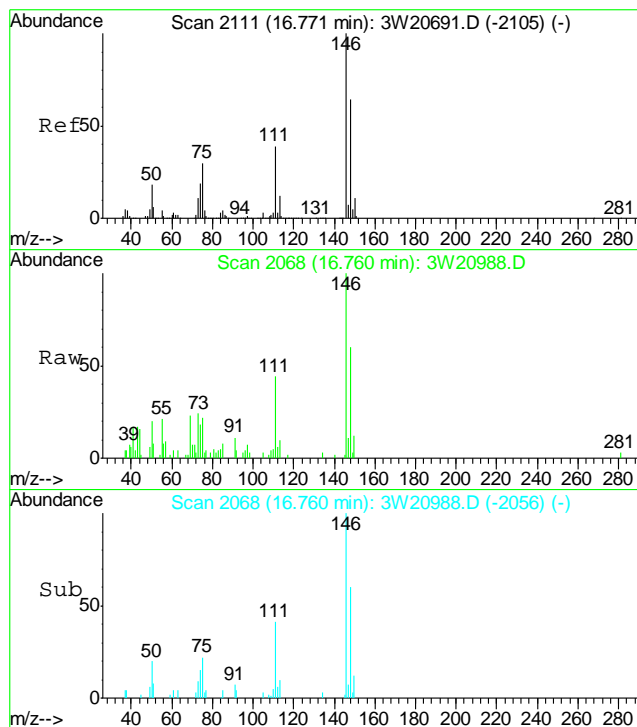
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.7	31.4	71.4
91	8.8	0.0	29.6



#85
1,2,4-TRIMETHYLBENZENE
Concen: 2.19 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W20988.D
Acq: 24 Feb 2011 8:16 pm

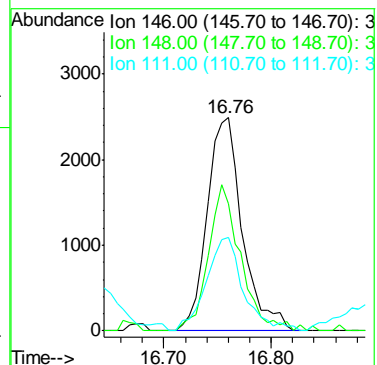
Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.1	39.2	79.2
119	13.0	104.5	144.5#





#88
 p-DICHLOROBENZENE
 Concen: 0.33 PPBV
 RT: 16.76 min Scan# 2068
 Delta R.T. -0.01 min
 Lab File: 3W20988.D
 Acq: 24 Feb 2011 8:16 pm

Tgt Ion:146	Resp:	5650
Ion Ratio	Lower	Upper
146	100	
148	63.3	44.2 84.2
111	46.1	14.5 54.5



Manual Integration Approval Summary

Sample Number: JA68565-6

Method: TO-15

Lab FileID: 3W20988.D

Analyst approved: 02/25/11 10:31 Yunxia Chen

Injection Time: 02/24/11 20:16

Supervisor approved: 03/10/11 05:18 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
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4-Ethyltoluene	622-96-8		15.88	Overlapping peak
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6.1.9.1

6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21014.D Vial: 7
 Acq On : 25 Feb 2011 4:19 pm Operator: yunxiac
 Sample : JA68565-6 Inst : MS3W
 Misc : MS8536,V3W829,40,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 28 08:22:12 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	160849	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	771610	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	365311	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	366761	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 218144 5.62 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 112.40%

Target Compounds

Qvalue

6) PROPYLENE	4.34	41	4642	0.26	PPBV	#	74
11) n-BUTANE	4.72	43	6464	0.21	PPBV	#	94
17) ISOPROPYL ALCOHOL	5.65	45	41505m	1.58	PPBV		
18) ACETONE	5.38	58	86641	13.64	PPBV	#	87
23) CARBON DISULFIDE	6.17	76	8747	0.15	PPBV	#	71
24) ETHANOL	5.14	45	77230	11.79	PPBV		98
30) TERTIARY BUTYL ALCOHOL	6.08	59	16892	0.56	PPBV		94
36) METHYL ETHYL KETONE	7.11	72	2333	0.39	PPBV	#	93
39) ETHYL ACETATE	7.62	61	2859	0.69	PPBV	#	90
49) TRICHLOROETHYLENE	9.82	95	6332	0.28	PPBV		94
57) METHYL ISOBUTYL KETONE	10.75	58	1286	0.12	PPBV	#	73
59) TOLUENE	11.57	92	13046	0.44	PPBV		94
64) TETRACHLOROETHYLENE	12.70	164	1634	0.06	PPBV		95
70) ETHYLBENZENE	13.79	91	16881	0.29	PPBV		97
71) m,p-XYLENE	13.97	106	27125	1.26	PPBV		92
72) o-XYLENE	14.48	106	10894	0.54	PPBV		97
73) STYRENE	14.39	104	9654	0.41	PPBV		97
74) NONANE	14.66	43	6340	0.19	PPBV		96
82) 4-ETHYLTOLUENE	15.88	105	7783m	0.19	PPBV		
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	9497	0.27	PPBV		95
85) 1,2,4-TRIMETHYLBENZENE	16.48	105	21400	0.71	PPBV	#	29
88) p-DICHLOROBENZENE	16.76	146	2186	0.12	PPBV		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21014.D M3W821.M Mon Feb 28 15:03:20 2011 MS3W

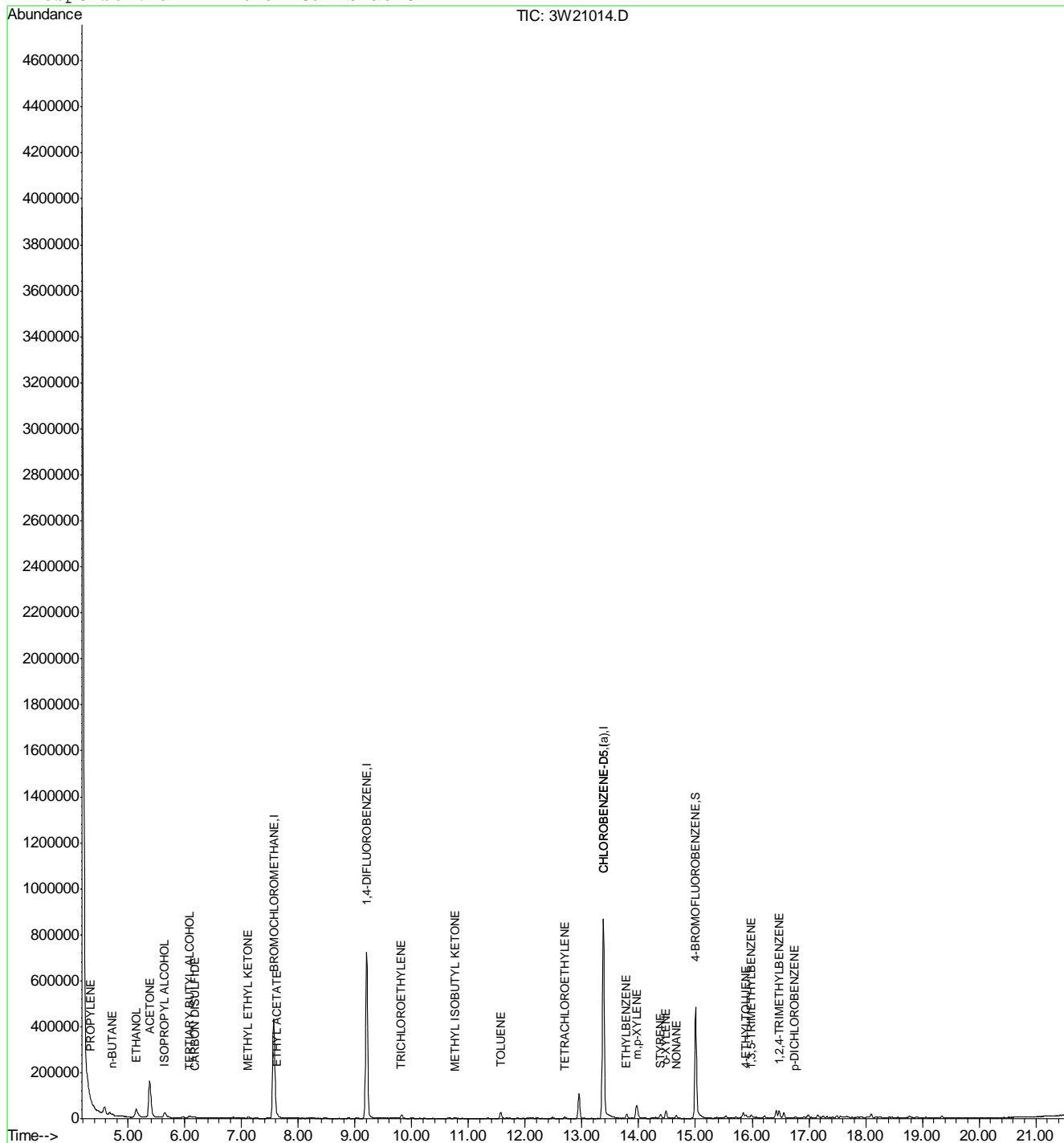
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21014.D
Acq On : 25 Feb 2011 4:19 pm
Sample : JA68565-6
Misc : MS8536,V3W829,40,,,1
MS Integration Params: rteint.p
Quant Time: Feb 28 15:03 2011

Vial: 7
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

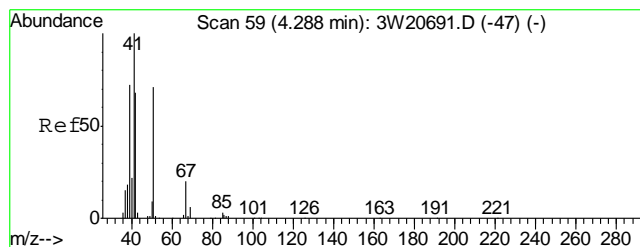


3W21014.D M3W821.M

Mon Feb 28 15:03:20 2011

MS3W

Page 2



#6

PROPYLENE

Concen: 0.26 PPBV

RT: 4.34 min Scan# 26

Delta R.T. 0.01 min

Lab File: 3W21014.D

Acq: 25 Feb 2011 4:19 pm

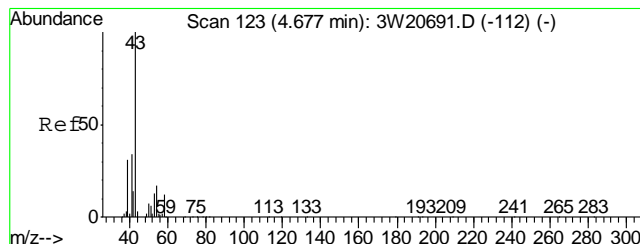
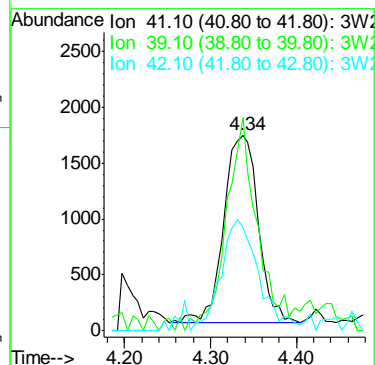
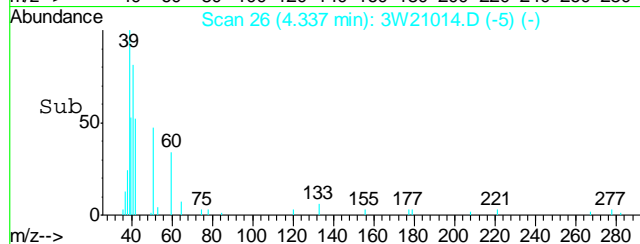
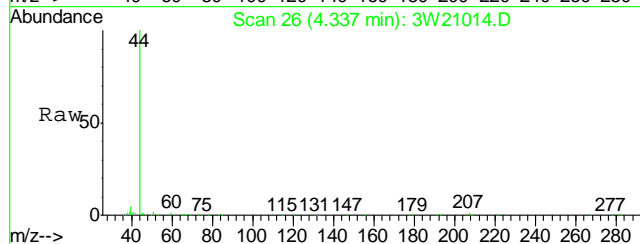
Tgt Ion: 41 Resp: 4642

Ion Ratio Lower Upper

41 100

39 106.8 50.7 90.7#

42 60.0 46.0 86.0



#11

n-BUTANE

Concen: 0.21 PPBV

RT: 4.72 min Scan# 89

Delta R.T. 0.00 min

Lab File: 3W21014.D

Acq: 25 Feb 2011 4:19 pm

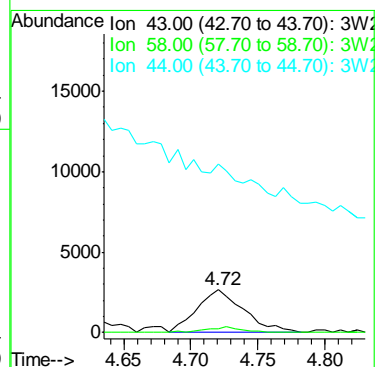
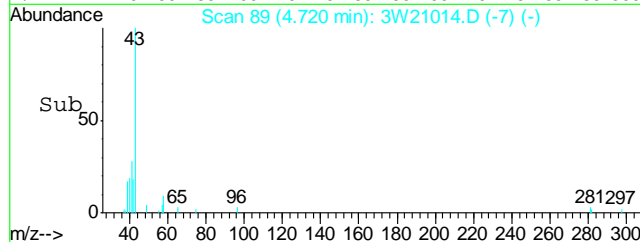
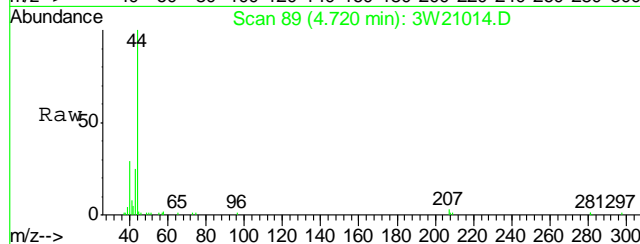
Tgt Ion: 43 Resp: 6464

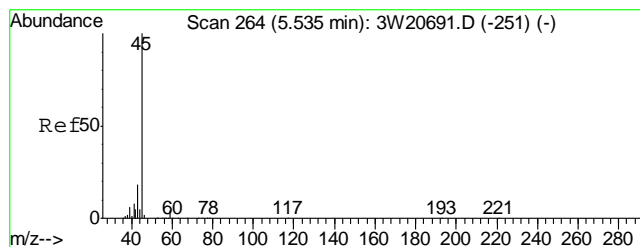
Ion Ratio Lower Upper

43 100

58 10.6 0.0 32.1

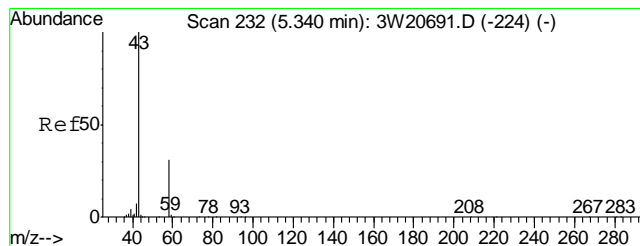
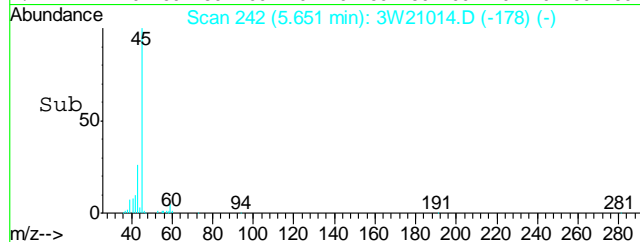
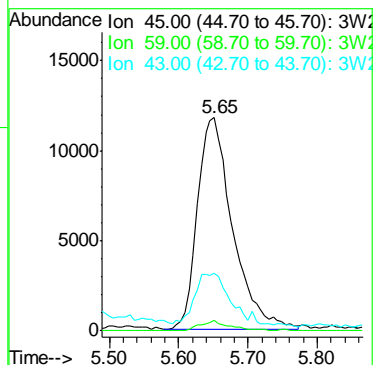
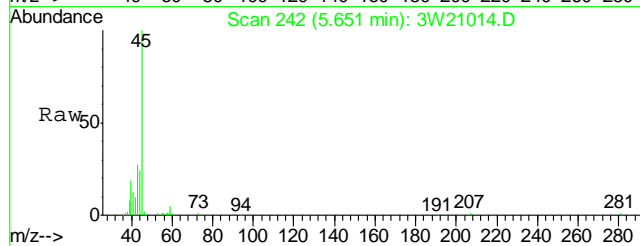
44 0.0 0.0 23.9





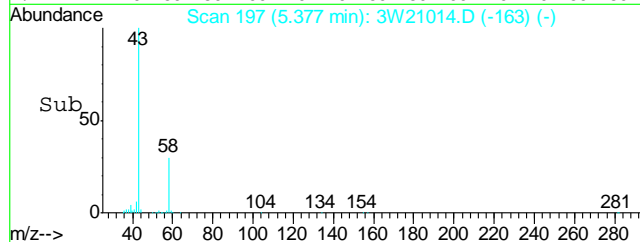
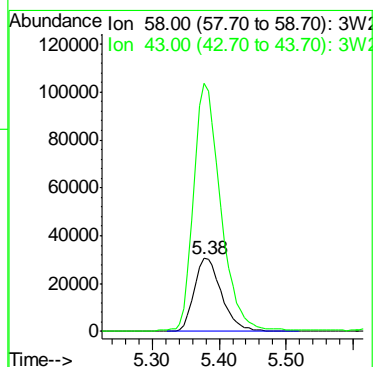
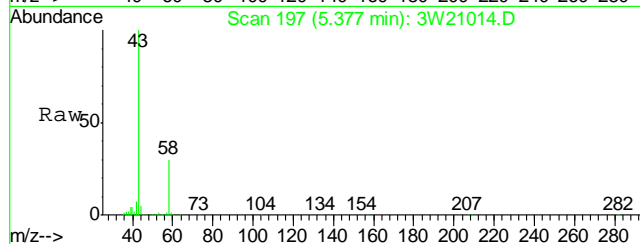
#17
ISOPROPYL ALCOHOL
Concen: 1.58 PPBV m
RT: 5.65 min Scan# 242
Delta R.T. 0.09 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

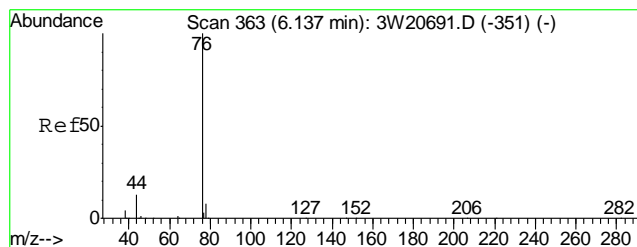
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.8	0.0	23.7
43	26.9	0.0	37.4



#18
ACETONE
Concen: 13.64 PPBV
RT: 5.38 min Scan# 197
Delta R.T. 0.01 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

Tgt Ion	Ratio	Lower	Upper
58	100		
43	335.1	289.1	329.1#





#23

CARBON DISULFIDE

Concen: 0.15 PPBV

RT: 6.17 min Scan# 328

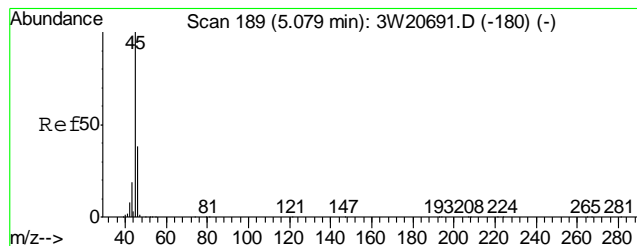
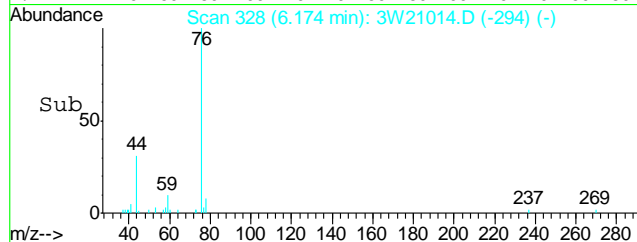
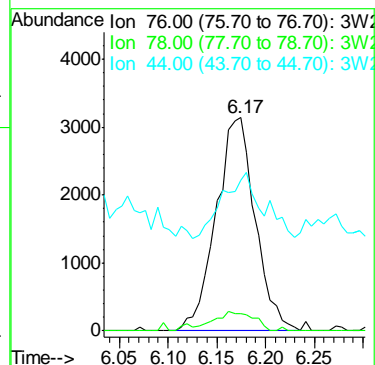
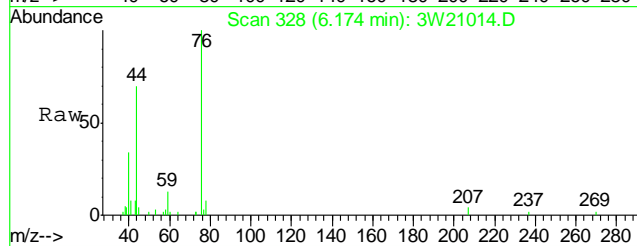
Delta R.T. -0.00 min

Lab File: 3W21014.D

Acq: 25 Feb 2011 4:19 pm

Tgt Ion: 76 Resp: 8747

Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	30.5
44	31.7	0.0	31.7#



#24

ETHANOL

Concen: 11.79 PPBV

RT: 5.14 min Scan# 158

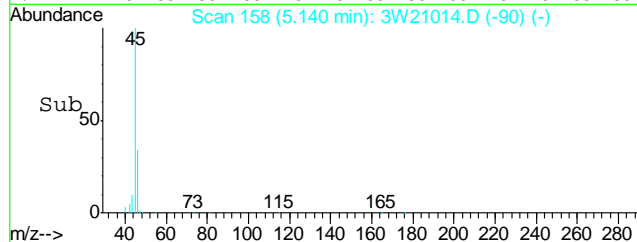
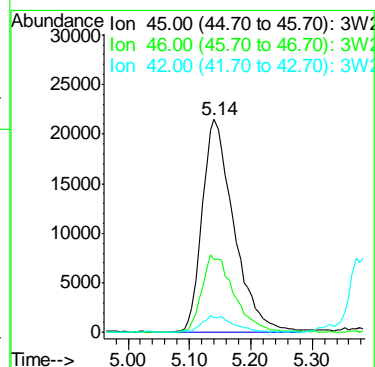
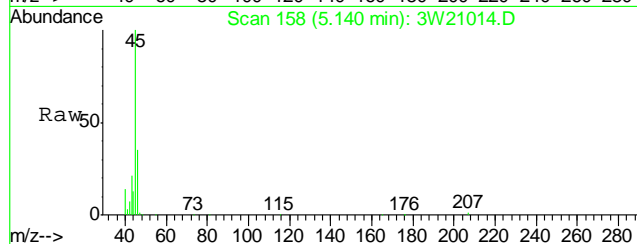
Delta R.T. 0.03 min

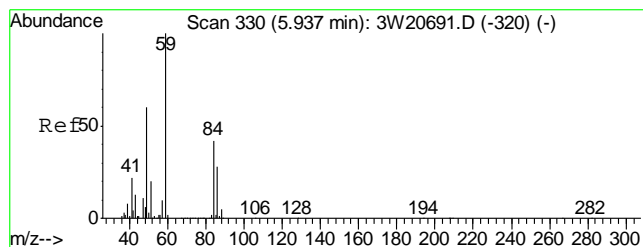
Lab File: 3W21014.D

Acq: 25 Feb 2011 4:19 pm

Tgt Ion: 45 Resp: 77230

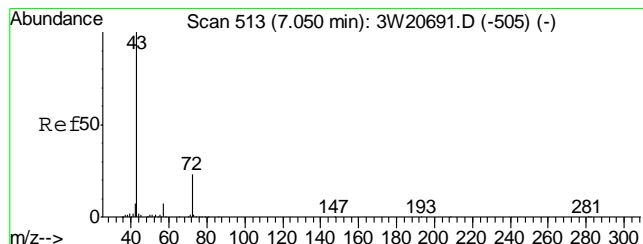
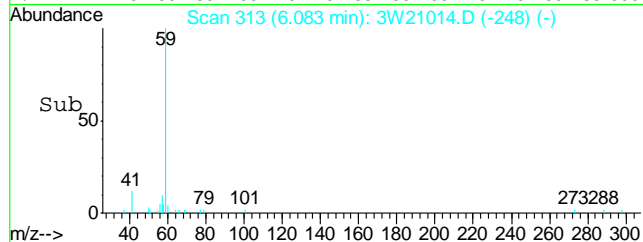
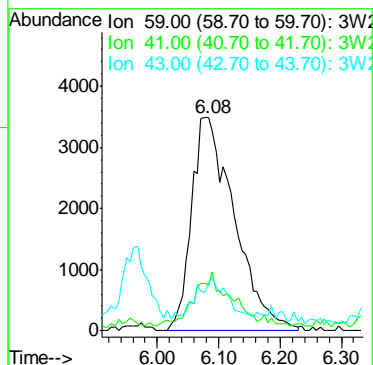
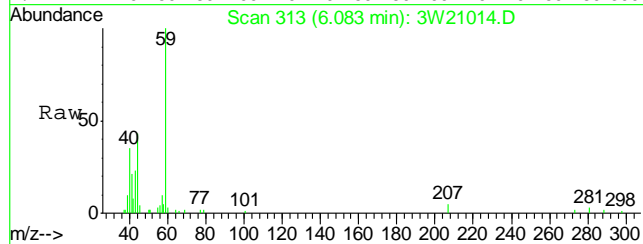
Ion	Ratio	Lower	Upper
45	100		
46	36.7	18.2	58.2
42	8.2	0.0	27.7





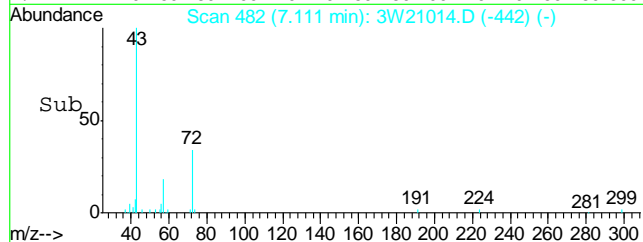
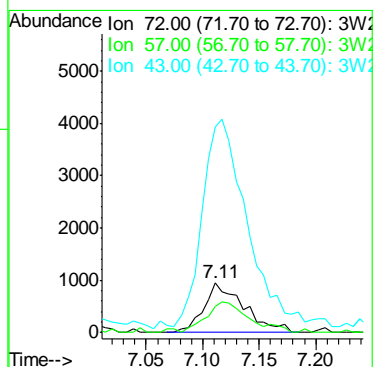
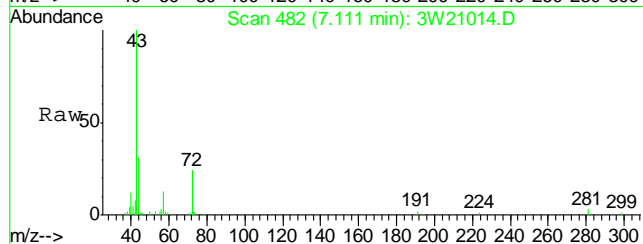
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.56 PPBV
RT: 6.08 min Scan# 313
Delta R.T. 0.09 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

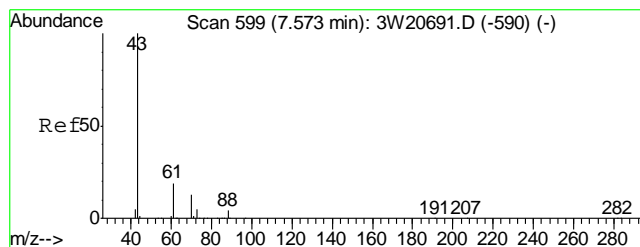
Tgt Ion	Resp	Lower	Upper
59	100		
41	21.6	0.0	38.0
43	13.9	0.0	33.0



#36
METHYL ETHYL KETONE
Concen: 0.39 PPBV
RT: 7.11 min Scan# 482
Delta R.T. 0.04 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

Tgt Ion	Resp	Lower	Upper
72	100		
57	53.3	11.3	51.3
43	413.6	384.1	424.1





#39

ETHYL ACETATE

Concen: 0.69 PPBV

RT: 7.62 min Scan# 566

Delta R.T. 0.03 min

Lab File: 3W21014.D

Acq: 25 Feb 2011 4:19 pm

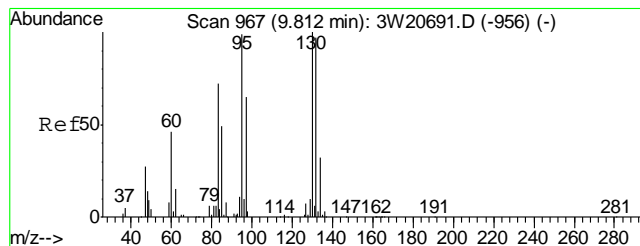
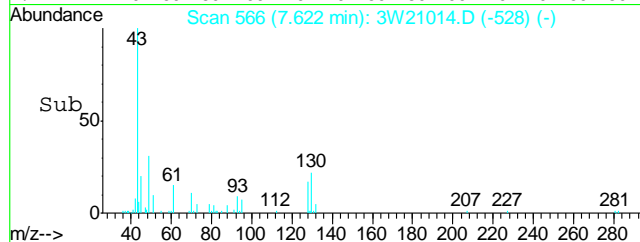
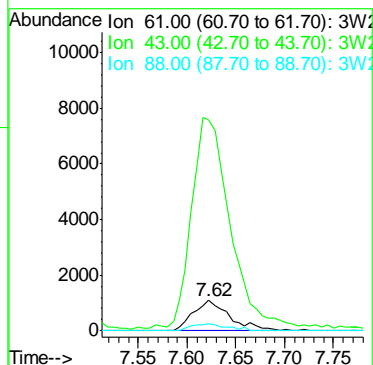
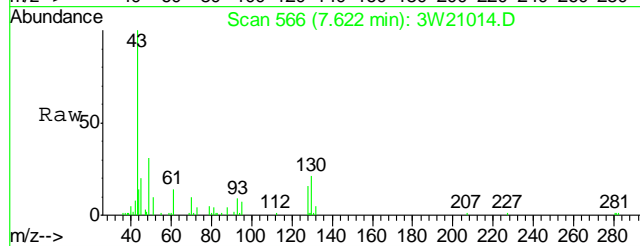
Tgt Ion: 61 Resp: 2859

Ion Ratio Lower Upper

61 100

43 738.5 682.3 722.3#

88 22.3 6.1 46.1



#49

TRICHLOROETHYLENE

Concen: 0.28 PPBV

RT: 9.82 min Scan# 927

Delta R.T. -0.01 min

Lab File: 3W21014.D

Acq: 25 Feb 2011 4:19 pm

Tgt Ion: 95 Resp: 6332

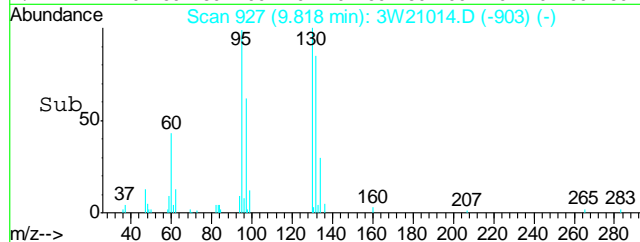
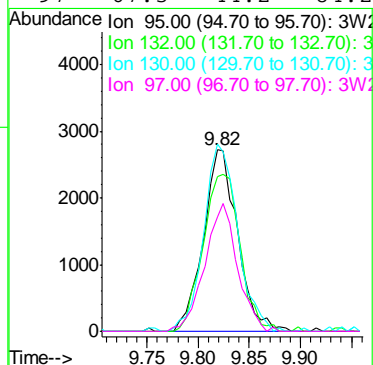
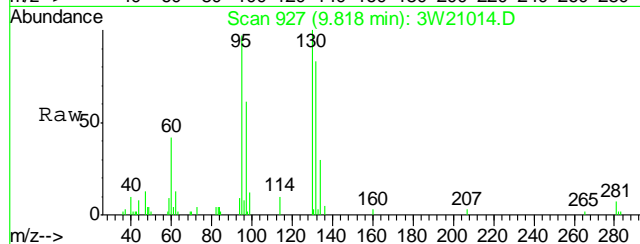
Ion Ratio Lower Upper

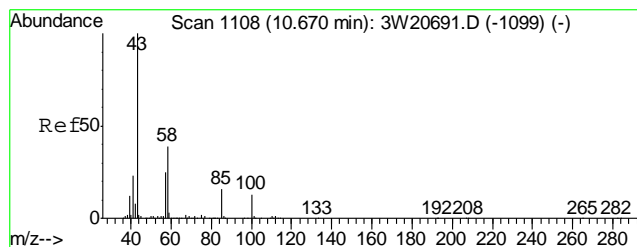
95 100

132 93.4 83.4 123.4

130 102.4 87.1 127.1

97 67.3 44.2 84.2





#57

METHYL ISOBUTYL KETONE

Concen: 0.12 PPBV

RT: 10.75 min Scan# 1080

Delta R.T. 0.08 min

Lab File: 3W21014.D

Acq: 25 Feb 2011 4:19 pm

Tgt Ion: 58 Resp: 1286

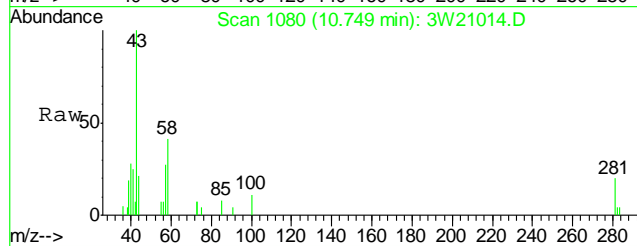
Ion Ratio Lower Upper

58 100

43 307.8 229.3 269.3#

100 29.6 14.1 54.1

85 39.5 24.9 64.9



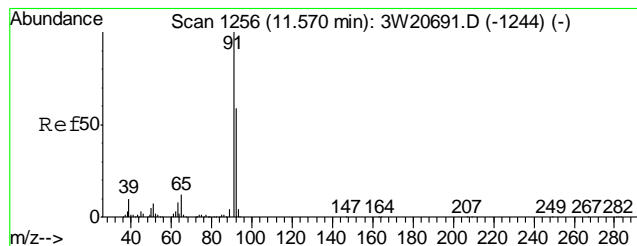
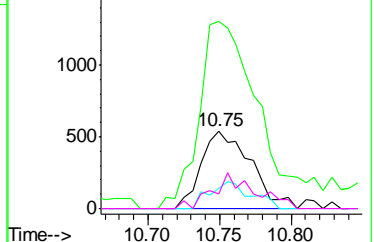
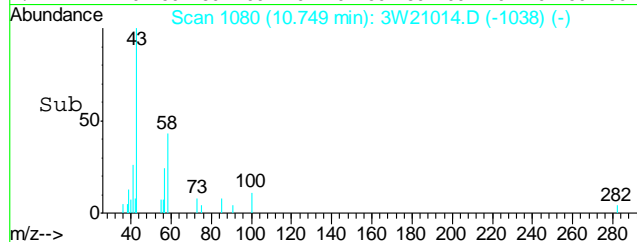
Abundance Ion 58.00 (57.70 to 58.70): 3W2

Ion 43.00 (42.70 to 43.70): 3W2

Ion 100.00 (99.70 to 100.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

Time-->



#59

TOLUENE

Concen: 0.44 PPBV

RT: 11.57 min Scan# 1215

Delta R.T. -0.00 min

Lab File: 3W21014.D

Acq: 25 Feb 2011 4:19 pm

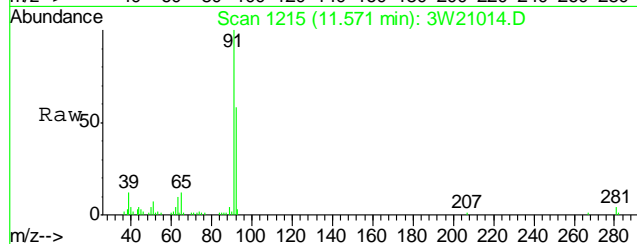
Tgt Ion: 92 Resp: 13046

Ion Ratio Lower Upper

92 100

91 176.7 148.6 188.6

65 21.7 0.0 38.0

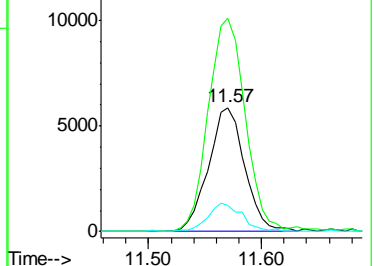
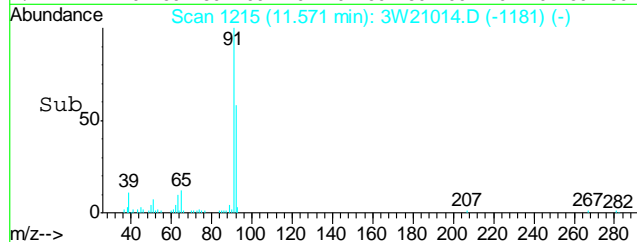


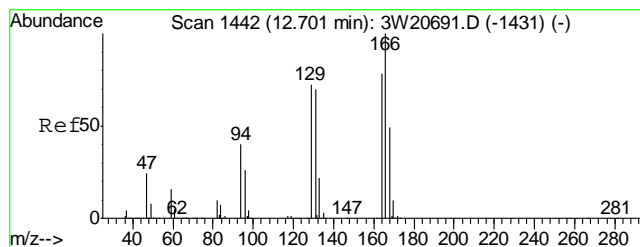
Abundance Ion 92.00 (91.70 to 92.70): 3W2

Ion 91.00 (90.70 to 91.70): 3W2

Ion 65.00 (64.70 to 65.70): 3W2

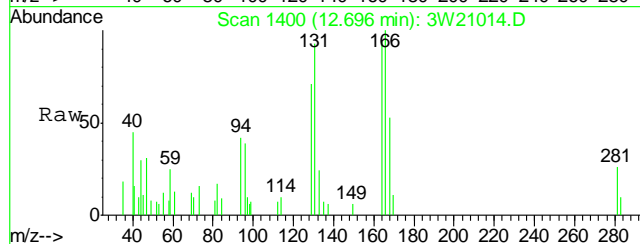
Time-->





#64
TETRACHLOROETHYLENE
Concen: 0.06 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

Tgt Ion	Ratio	Lower	Upper
164	100		
129	78.3	65.6	105.6
168	58.9	42.3	82.3
131	81.6	63.0	103.0



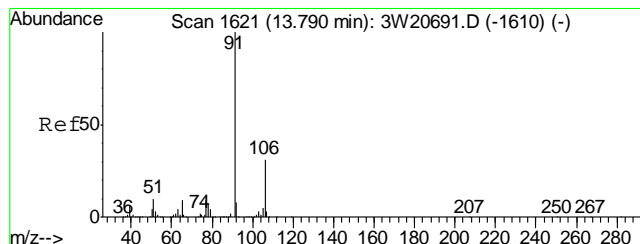
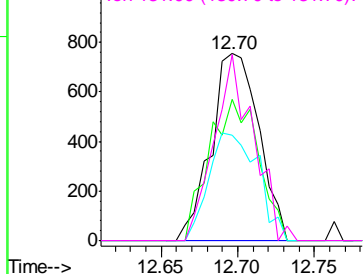
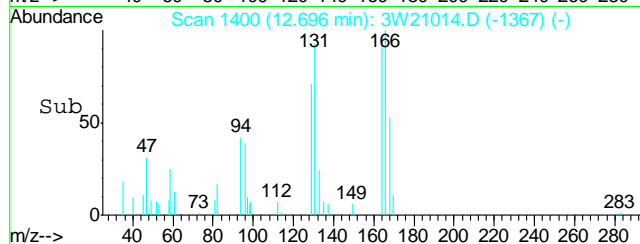
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

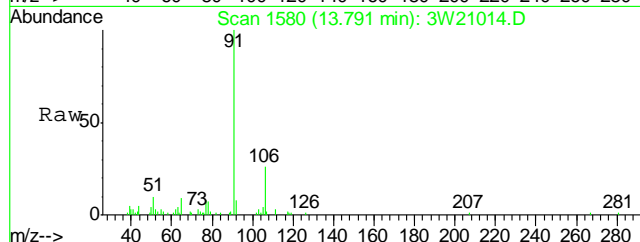
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#70
ETHYLBENZENE
Concen: 0.29 PPBV
RT: 13.79 min Scan# 1580
Delta R.T. -0.00 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	11.5	51.5
77	9.1	0.0	28.4

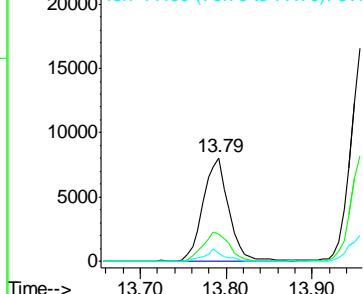
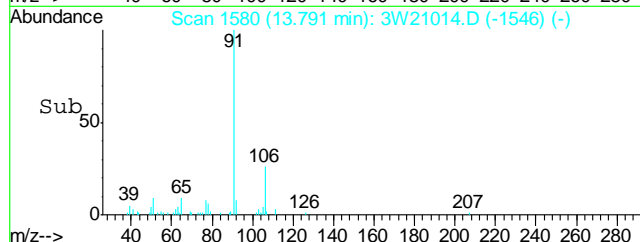


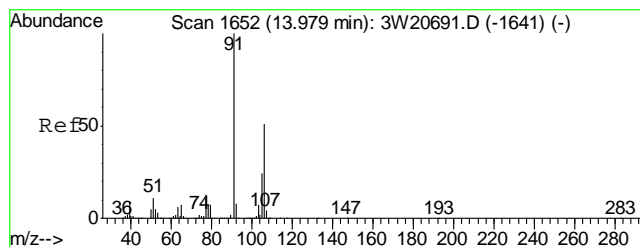
Abundance

Ion 91.00 (90.70 to 91.70): 3W2

Ion 106.00 (105.70 to 106.70): 3W2

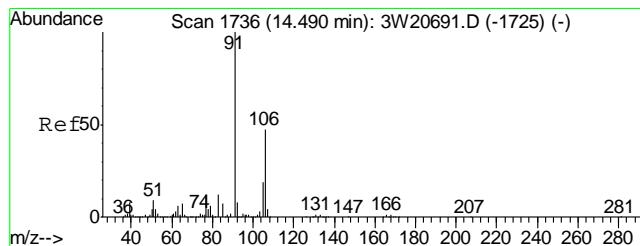
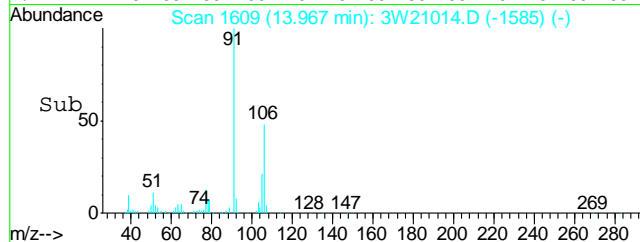
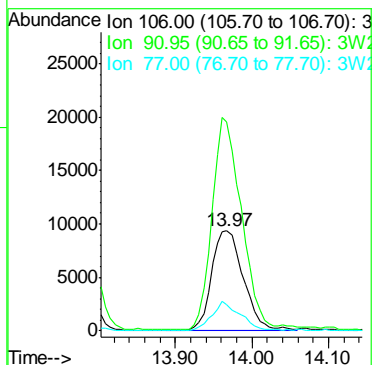
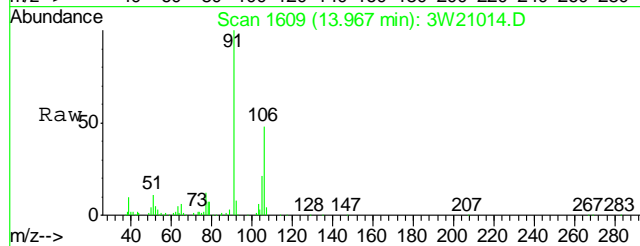
Ion 77.00 (76.70 to 77.70): 3W2





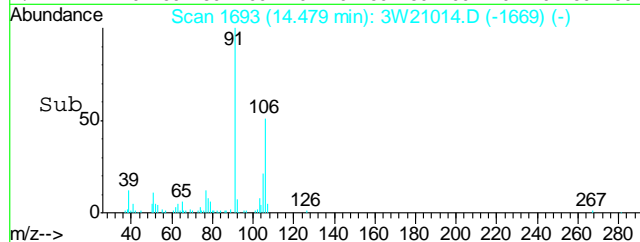
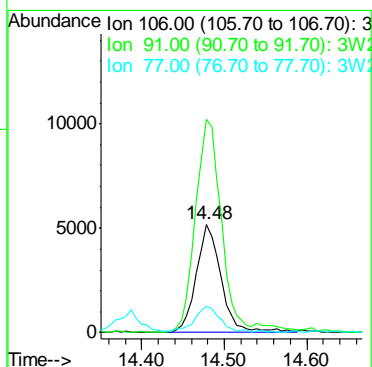
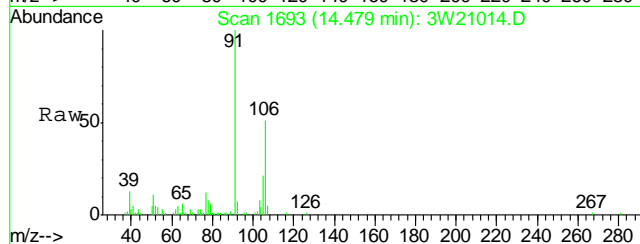
#71
m,p-XYLENE
Concen: 1.26 PPBV
RT: 13.97 min Scan# 1609
Delta R.T. -0.01 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

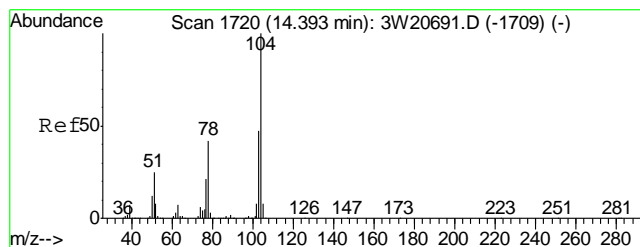
Tgt Ion	Ratio	Lower	Upper
106	100		
91	208.7	176.1	216.1
77	25.8	4.4	44.4



#72
o-XYLENE
Concen: 0.54 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

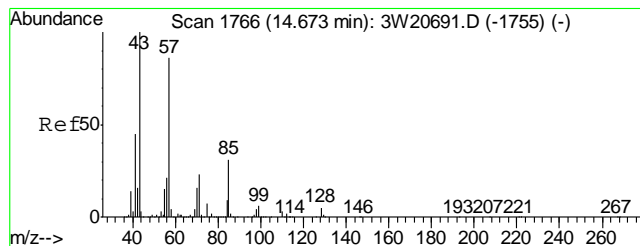
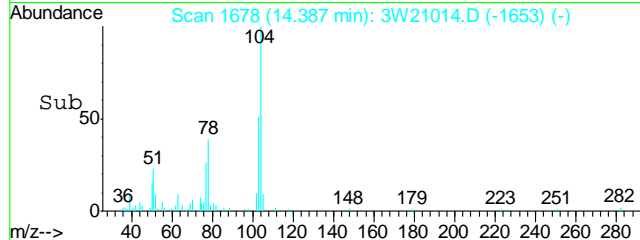
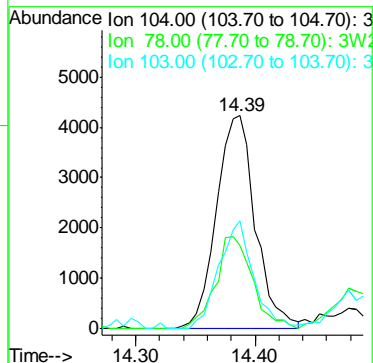
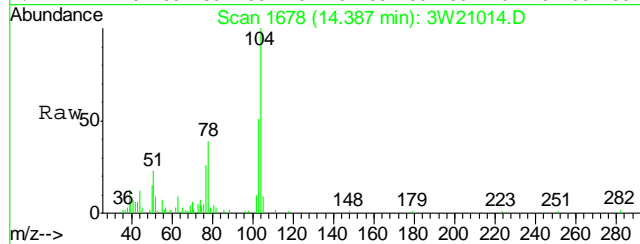
Tgt Ion	Ratio	Lower	Upper
106	100		
91	202.0	186.8	226.8
77	25.8	3.9	43.9





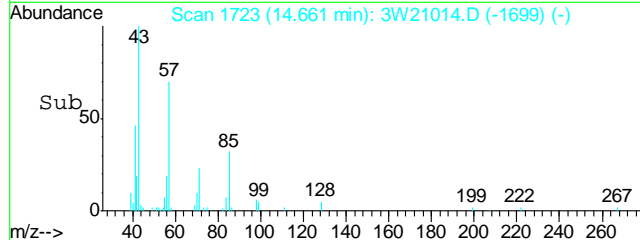
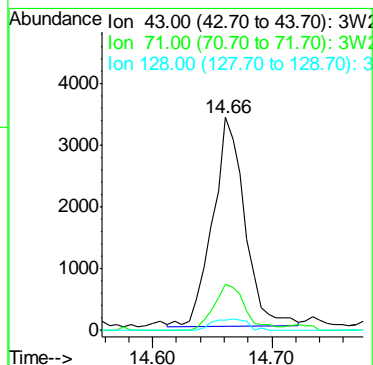
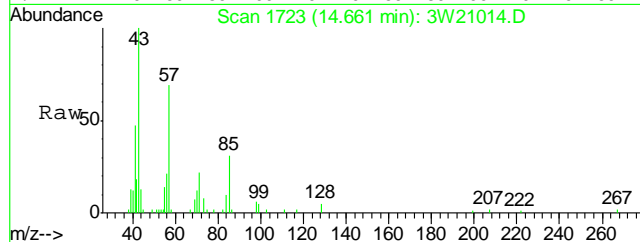
#73
 STYRENE
 Concen: 0.41 PPBV
 RT: 14.39 min Scan# 1678
 Delta R.T. -0.00 min
 Lab File: 3W21014.D
 Acq: 25 Feb 2011 4:19 pm

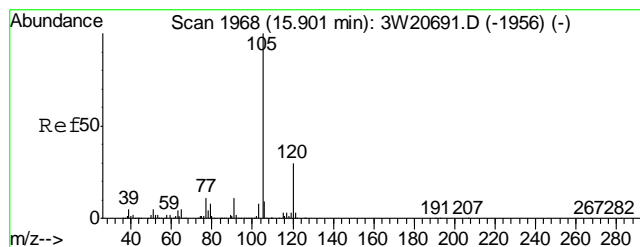
Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.3	19.0	59.0
103	45.3	27.2	67.2



#74
 NONANE
 Concen: 0.19 PPBV
 RT: 14.66 min Scan# 1723
 Delta R.T. -0.01 min
 Lab File: 3W21014.D
 Acq: 25 Feb 2011 4:19 pm

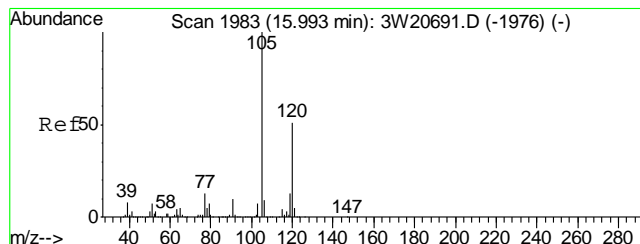
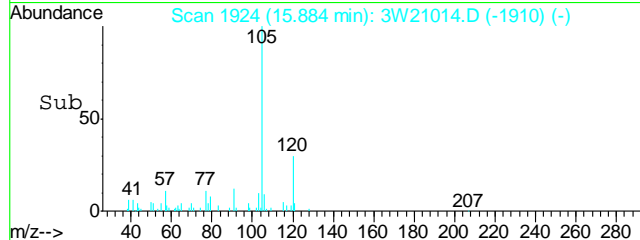
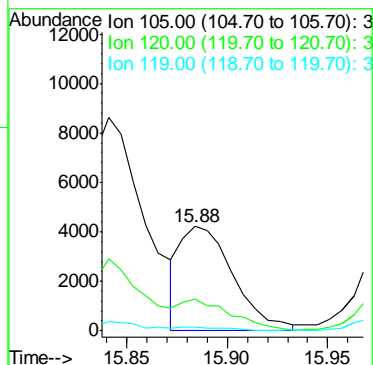
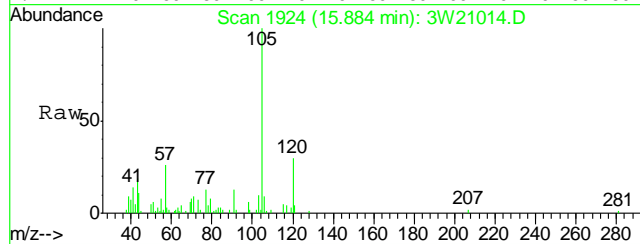
Tgt Ion	Ratio	Lower	Upper
43	100		
71	22.2	4.4	44.4
128	6.3	0.0	26.2





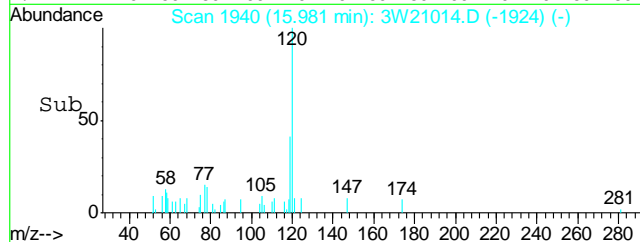
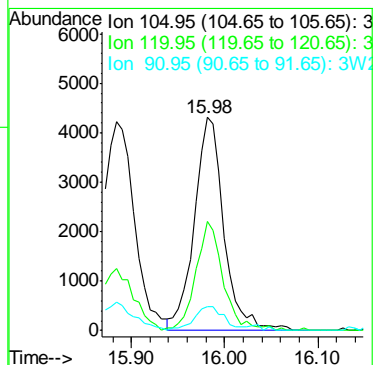
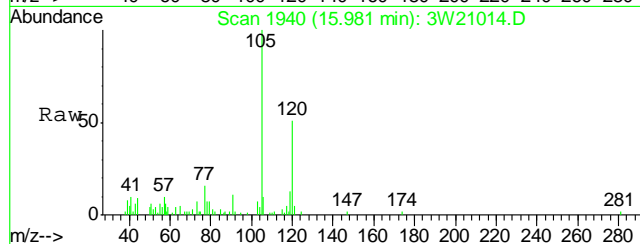
#82
4-ETHYLTOLUENE
Concen: 0.19 PPBV m
RT: 15.88 min Scan# 1924
Delta R.T. -0.01 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

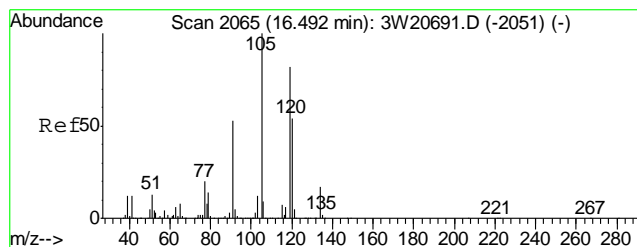
Tgt Ion	Ratio	Lower	Upper
105	100		
120	68.0	10.0	50.0#
119	11.9	0.0	22.6



#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.27 PPBV
RT: 15.98 min Scan# 1940
Delta R.T. -0.01 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

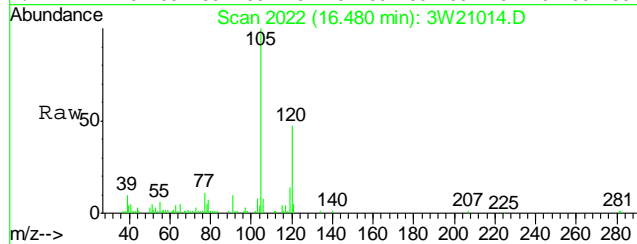
Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.7	31.4	71.4
91	11.3	0.0	29.6



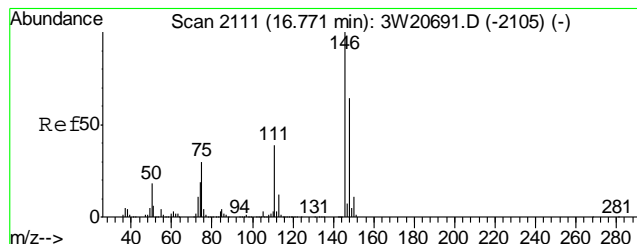
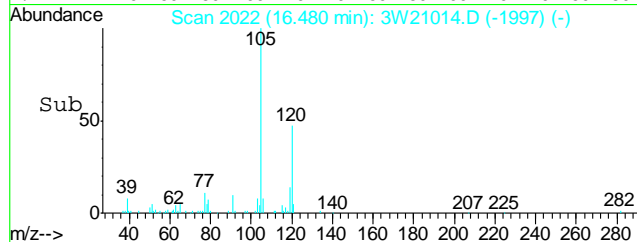
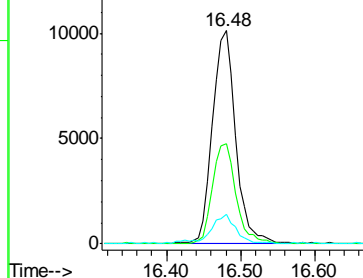


#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.71 PPBV
RT: 16.48 min Scan# 2022
Delta R.T. -0.00 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	39.2	79.2
119	14.4	104.5	144.5#

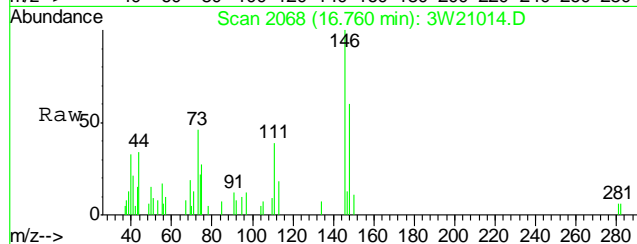


Abundance Ion 105.00 (104.70 to 105.70): 3
Ion 120.00 (119.70 to 120.70): 3
Ion 119.00 (118.70 to 119.70): 3

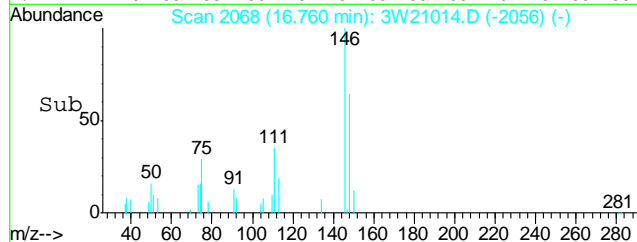
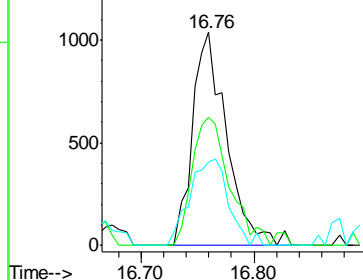


#88
p-DICHLOROBENZENE
Concen: 0.12 PPBV
RT: 16.76 min Scan# 2068
Delta R.T. -0.01 min
Lab File: 3W21014.D
Acq: 25 Feb 2011 4:19 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	66.0	44.2	84.2
111	46.1	14.5	54.5



Abundance Ion 146.00 (145.70 to 146.70): 3
Ion 148.00 (147.70 to 148.70): 3
Ion 111.00 (110.70 to 111.70): 3



Manual Integration Approval Summary

Sample Number:

JA68565-6

Method:

TO-15

Lab FileID:

3W21014.D

Analyst approved:

02/28/11 15:04 Yunxia Chen

Injection Time:

02/25/11 16:19

Supervisor approved:

03/10/11 05:18 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Isopropyl Alcohol	67-63-0		5.65	Poorly defined baseline
4-Ethyltoluene	622-96-8		15.88	Overlapping peak

6.1.10.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20989.D Vial: 8
 Acq On : 24 Feb 2011 8:55 pm Operator: yunxiac
 Sample : ja68565-7 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:10:59 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	171701	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	830112	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.37	82	378251	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	378251	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	220082	5.47	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	109.40%

Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.38	85	5211	0.10	PPBV	98
6) PROPYLENE	4.34	41	4926	0.26	PPBV	86
17) ISOPROPYL ALCOHOL	5.61	45	96310	3.44	PPBV	94
18) ACETONE	5.37	58	181888	26.82	PPBV #	89
23) CARBON DISULFIDE	6.17	76	15078	0.25	PPBV	92
24) ETHANOL	5.12	45	189085	27.04	PPBV	98
30) TERTIARY BUTYL ALCOHOL	6.02	59	45452	1.42	PPBV	94
36) METHYL ETHYL KETONE	7.10	72	3070	0.48	PPBV #	53
39) ETHYL ACETATE	7.60	61	2633	0.59	PPBV #	81
49) TRICHLOROETHYLENE	9.82	95	2487	0.10	PPBV	87
57) METHYL ISOBUTYL KETONE	10.73	58	1483	0.13	PPBV #	75
59) TOLUENE	11.56	92	16639	0.52	PPBV	99
64) TETRACHLOROETHYLENE	12.69	164	2092	0.08	PPBV	92
70) ETHYLBENZENE	13.78	91	23833	0.40	PPBV	99
71) m,p-XYLENE	13.96	106	40100	1.80	PPBV	98
72) o-XYLENE	14.48	106	16578	0.79	PPBV	95
73) STYRENE	14.38	104	16187	0.66	PPBV	95
74) NONANE	14.66	43	10043	0.29	PPBV	99
81) n-PROPYLBENZENE	15.71	120	2648	0.20	PPBV	86
82) 4-ETHYLTOLUENE	15.88	105	15889	0.37	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	20739	0.56	PPBV	97
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	57333	1.82	PPBV #	28
88) p-DICHLOROBENZENE	16.76	146	5558	0.28	PPBV	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20989.D M3W821.M Fri Feb 25 10:20:33 2011 MS3W

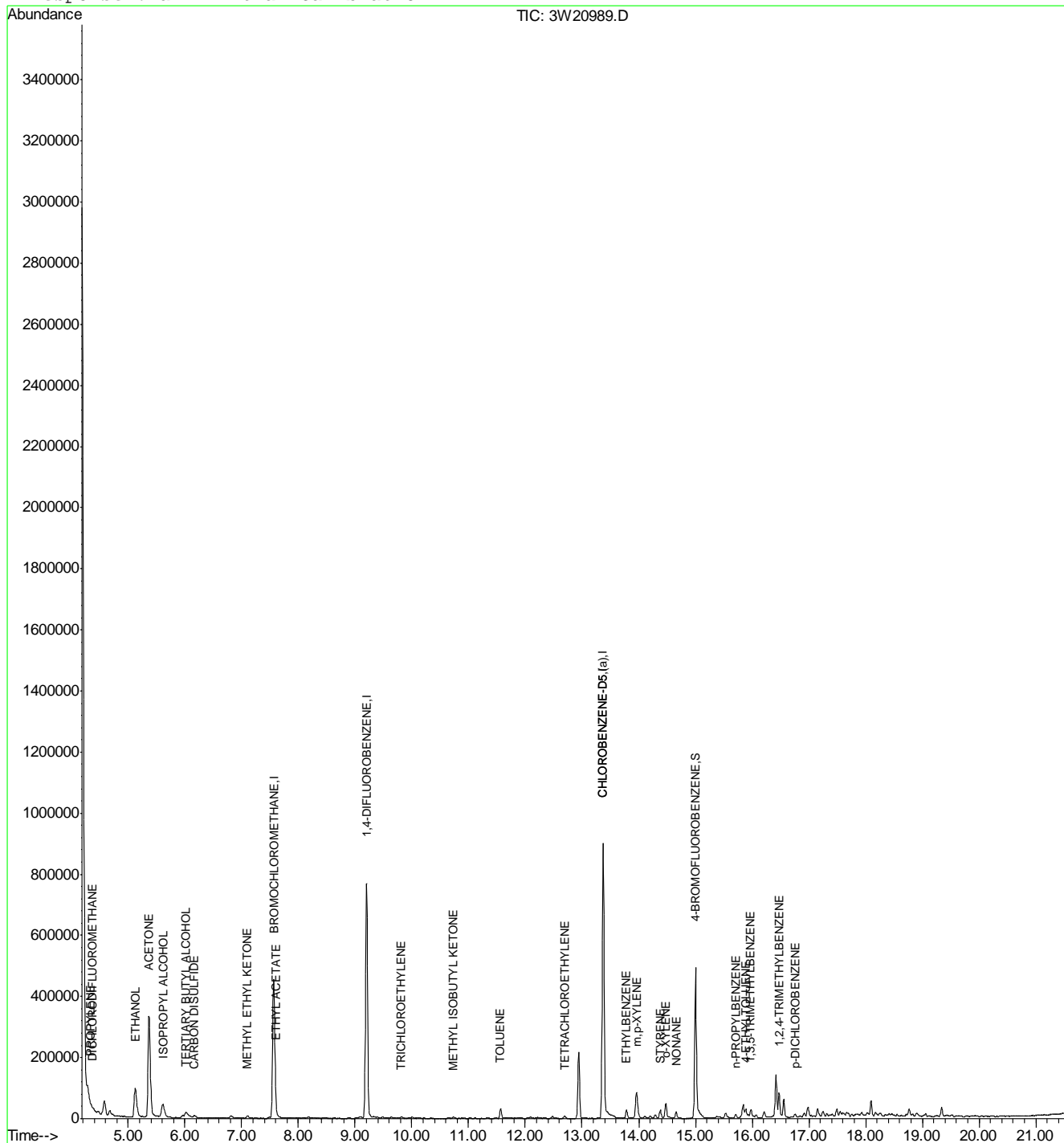
Quantitation Report (QT Reviewed)

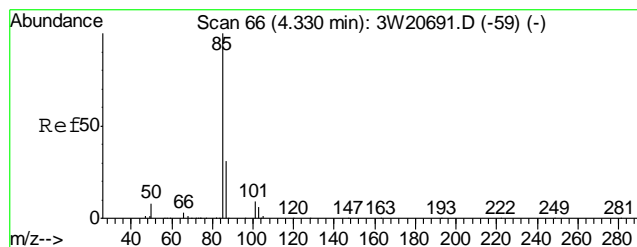
Data File : C:\MSDCHEM\1\DATA\3W20989.D
Acq On : 24 Feb 2011 8:55 pm
Sample : ja68565-7
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:19 2011

Vial: 8
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

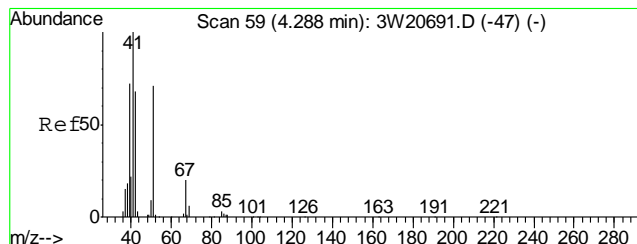
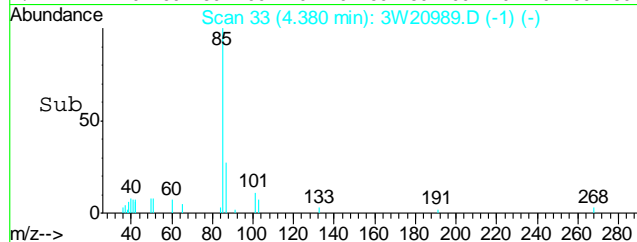
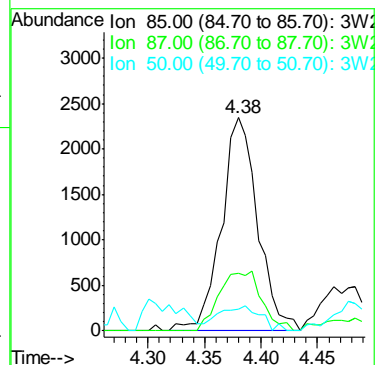
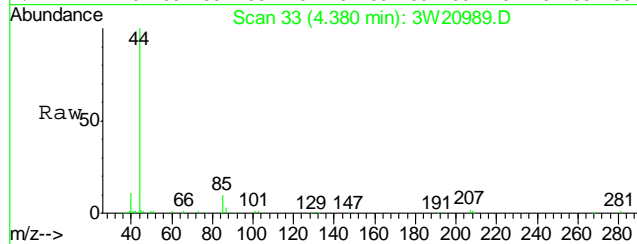
Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration





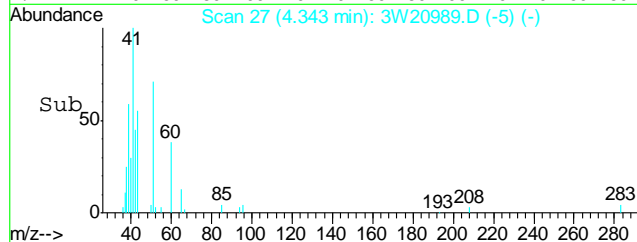
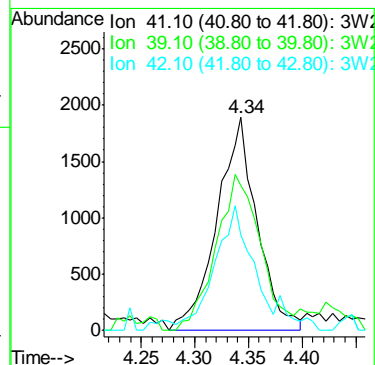
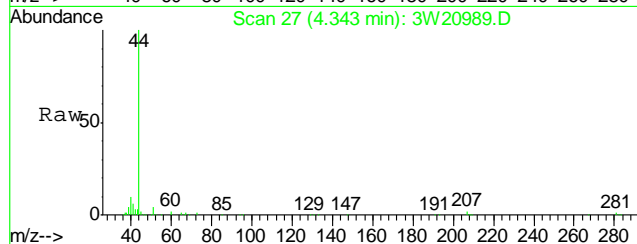
#5
DICHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 4.38 min Scan# 33
Delta R.T. 0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

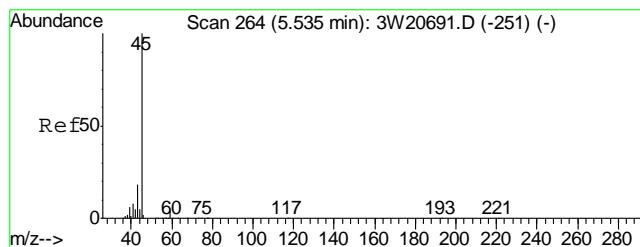
Tgt Ion:	85	Resp:	5211
Ion Ratio	Lower	Upper	
85	100		
87	32.6	12.9	52.9
50	13.4	0.0	30.6



#6
PROPYLENE
Concen: 0.26 PPBV
RT: 4.34 min Scan# 27
Delta R.T. 0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

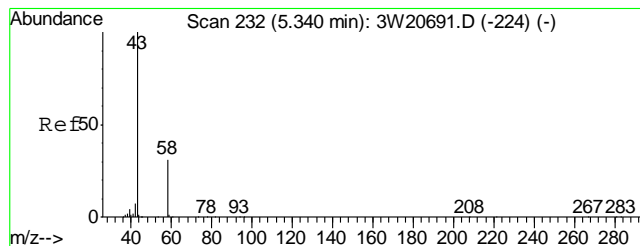
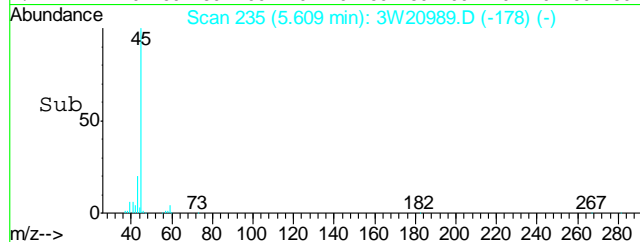
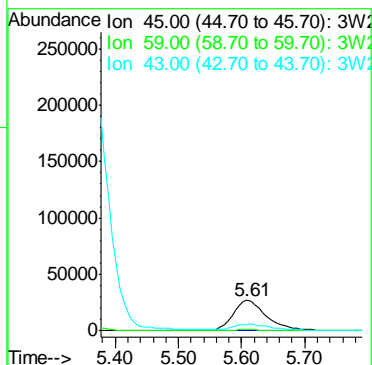
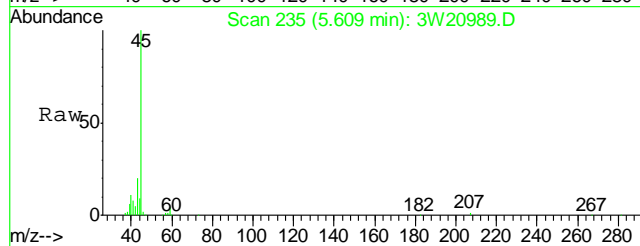
Tgt Ion:	41	Resp:	4926
Ion Ratio	Lower	Upper	
41	100		
39	80.8	50.7	90.7
42	53.9	46.0	86.0





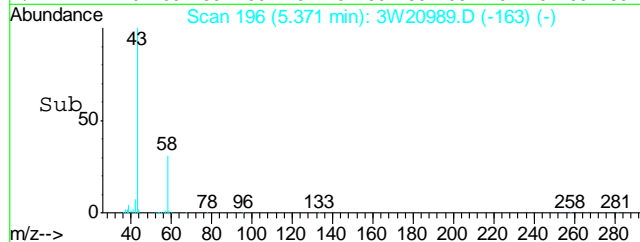
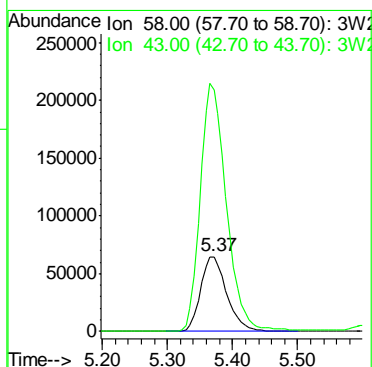
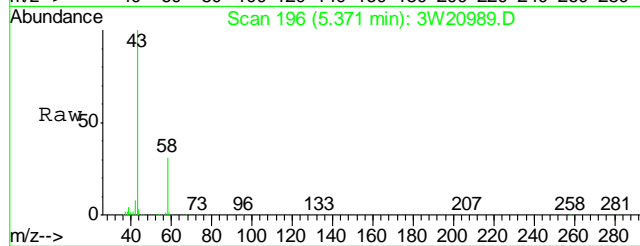
#17
ISOPROPYL ALCOHOL
Concen: 3.44 PPBV
RT: 5.61 min Scan# 235
Delta R.T. 0.05 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

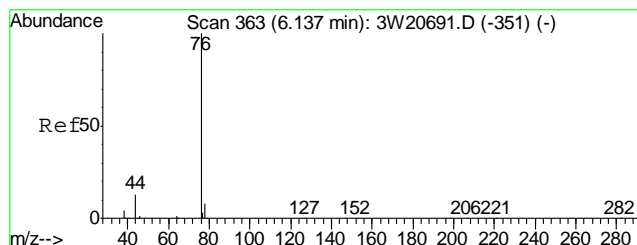
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.8	0.0	23.7
43	20.4	0.0	37.4



#18
ACETONE
Concen: 26.82 PPBV
RT: 5.37 min Scan# 196
Delta R.T. 0.00 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

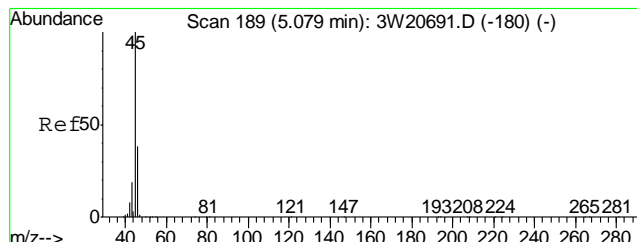
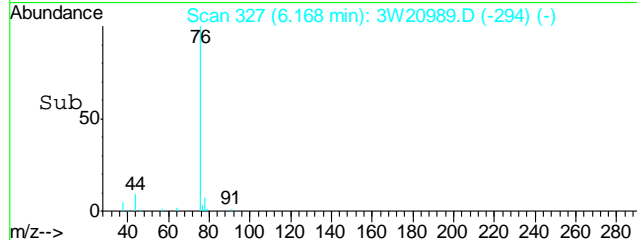
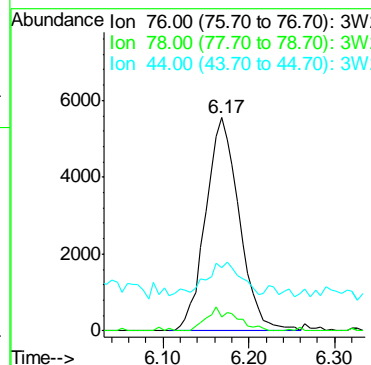
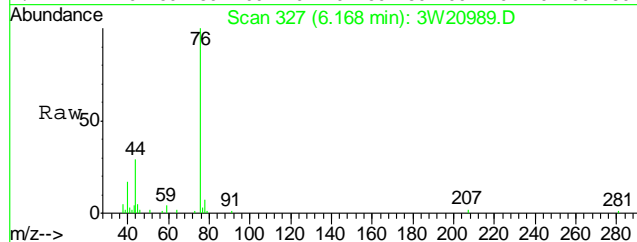
Tgt Ion	Ratio	Lower	Upper
58	100		
43	330.4	289.1	329.1#





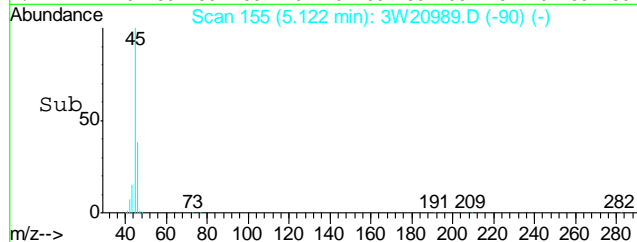
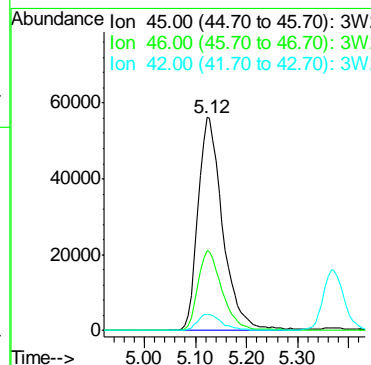
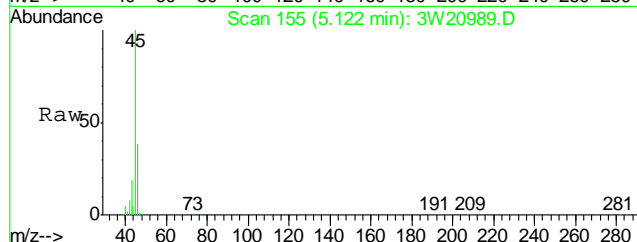
#23
 CARBON DISULFIDE
 Concen: 0.25 PPBV
 RT: 6.17 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: 3W20989.D
 Acq: 24 Feb 2011 8:55 pm

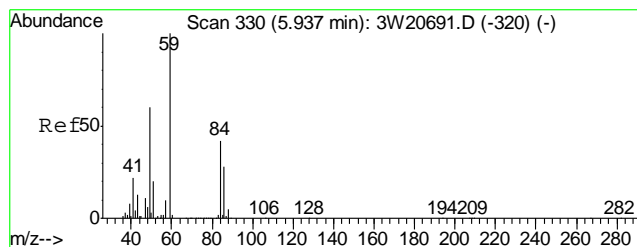
Tgt Ion:	76	Resp:	15078
Ion Ratio	Lower	Upper	
76	100		
78	9.8	0.0	30.5
44	16.9	0.0	31.7



#24
 ETHANOL
 Concen: 27.04 PPBV
 RT: 5.12 min Scan# 155
 Delta R.T. 0.01 min
 Lab File: 3W20989.D
 Acq: 24 Feb 2011 8:55 pm

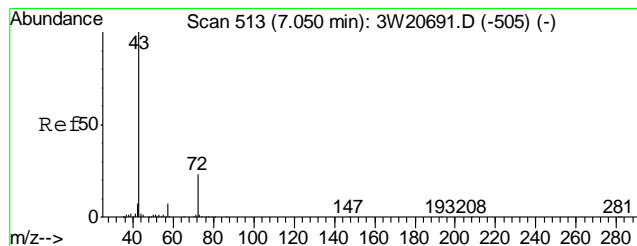
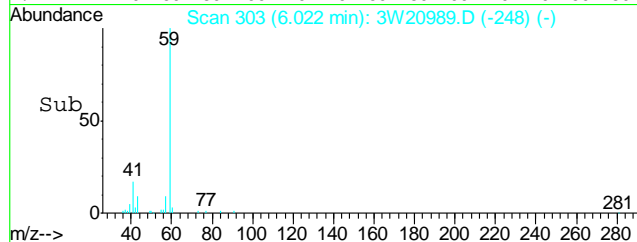
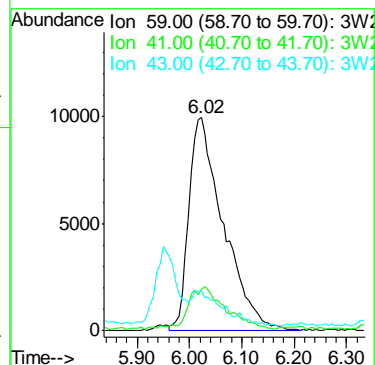
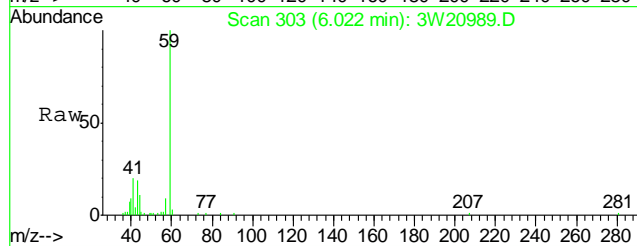
Tgt Ion:	45	Resp:	189085
Ion Ratio	Lower	Upper	
45	100		
46	36.7	18.2	58.2
42	7.7	0.0	27.7





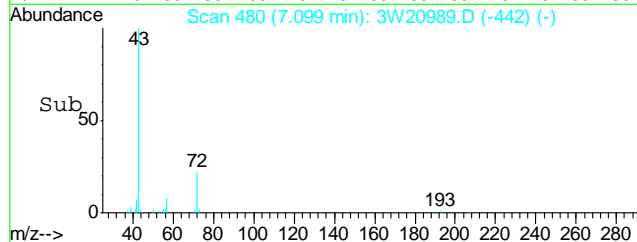
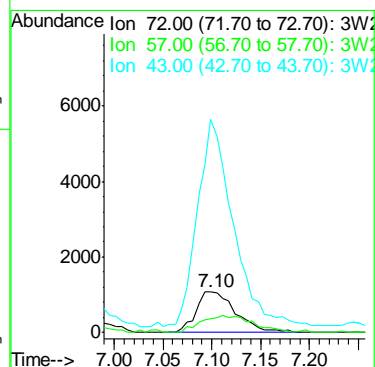
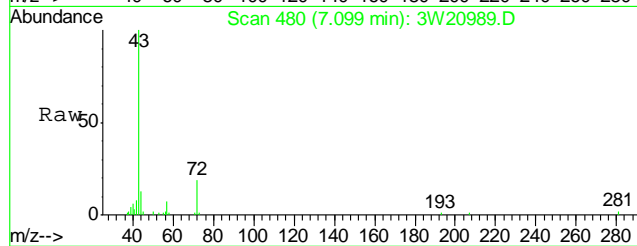
#30
TERTIARY BUTYL ALCOHOL
Concen: 1.42 PPBV
RT: 6.02 min Scan# 303
Delta R.T. 0.03 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

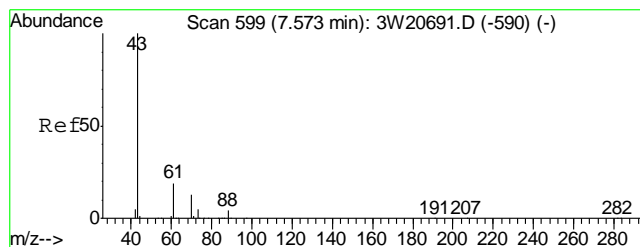
Tgt Ion	Ratio	Lower	Upper
59	100		
41	21.0	0.0	38.0
43	11.4	0.0	33.0



#36
METHYL ETHYL KETONE
Concen: 0.48 PPBV
RT: 7.10 min Scan# 480
Delta R.T. 0.02 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

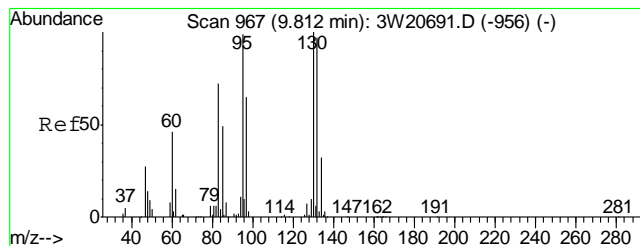
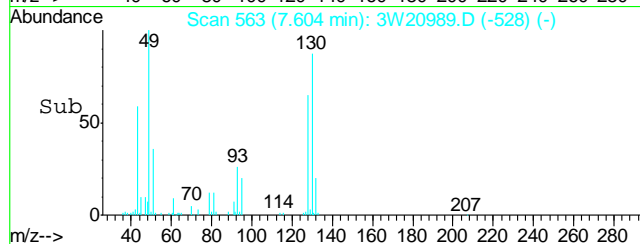
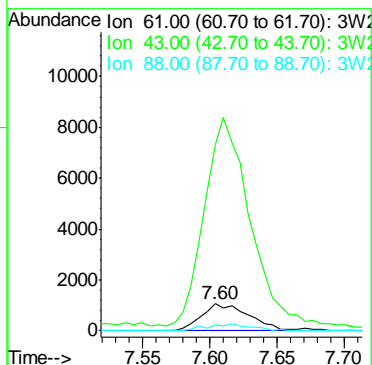
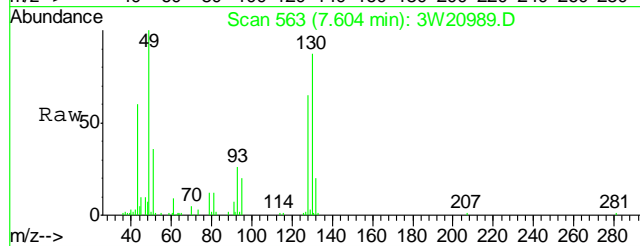
Tgt Ion	Ratio	Lower	Upper
72	100		
57	34.3	11.3	51.3
43	525.2	384.1	424.1#





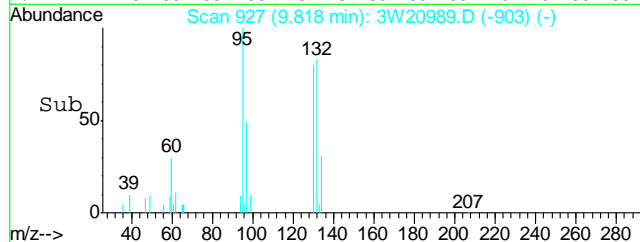
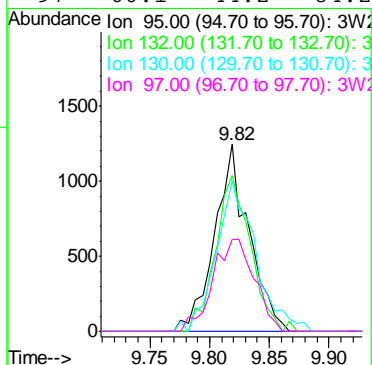
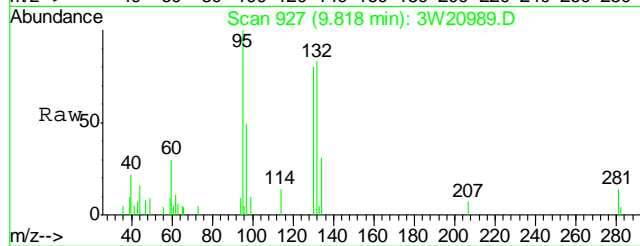
#39
ETHYL ACETATE
Concen: 0.59 PPBV
RT: 7.60 min Scan# 563
Delta R.T. 0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

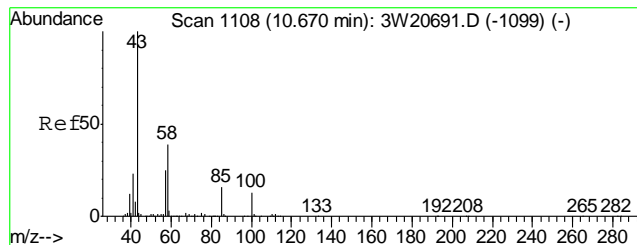
Tgt Ion	Ratio	Lower	Upper
61	100		
43	769.8	682.3	722.3#
88	24.2	6.1	46.1



#49
TRICHLOROETHYLENE
Concen: 0.10 PPBV
RT: 9.82 min Scan# 927
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

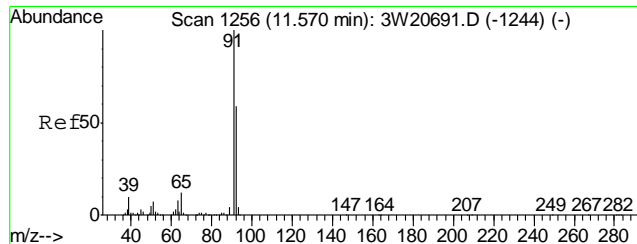
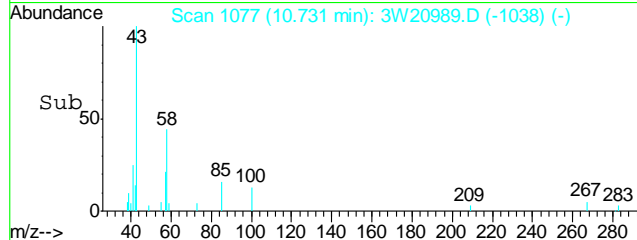
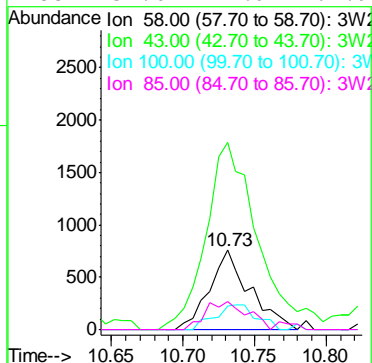
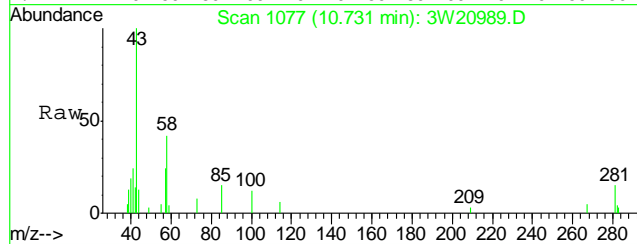
Tgt Ion	Ratio	Lower	Upper
95	100		
132	85.6	83.4	123.4
130	93.3	87.1	127.1
97	60.1	44.2	84.2





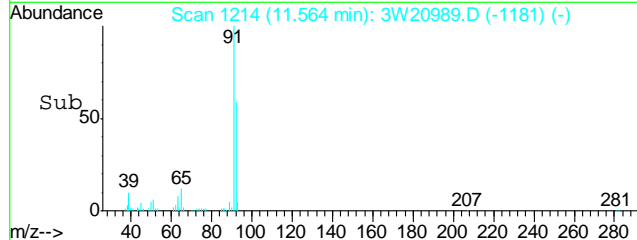
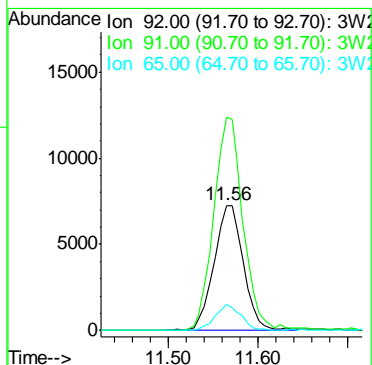
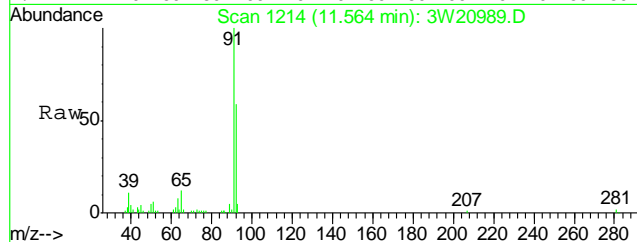
#57
METHYL ISOBUTYL KETONE
Concen: 0.13 PPBV
RT: 10.73 min Scan# 1077
Delta R.T. 0.06 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

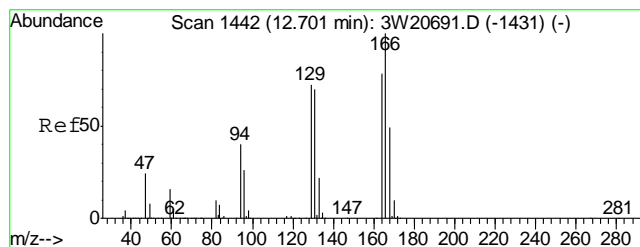
Tgt Ion:	58	Resp:	1483
Ion Ratio	Lower	Upper	
58	100		
43	303.0	229.3	269.3#
100	32.0	14.1	54.1
85	37.0	24.9	64.9



#59
TOLUENE
Concen: 0.52 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

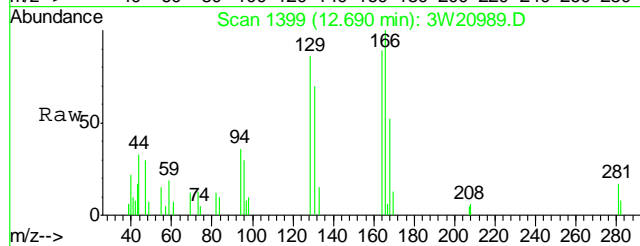
Tgt Ion:	92	Resp:	16639
Ion Ratio	Lower	Upper	
92	100		
91	170.5	148.6	188.6
65	18.4	0.0	38.0





#64
TETRACHLOROETHYLENE
Concen: 0.08 PPBV
RT: 12.69 min Scan# 1399
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

Tgt Ion:	164	Resp:	2092
Ion Ratio	Lower	Upper	
164	100		
129	79.7	65.6	105.6
168	55.9	42.3	82.3
131	75.7	63.0	103.0



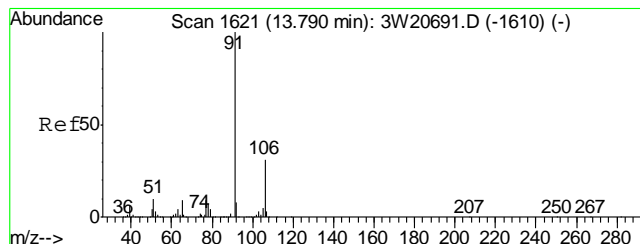
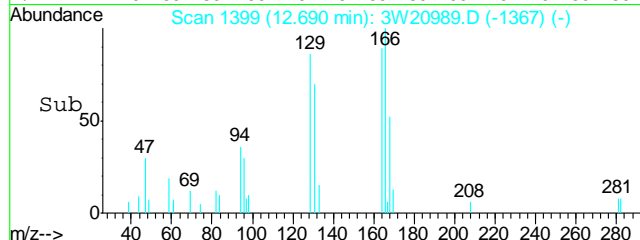
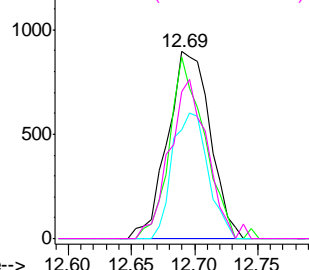
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

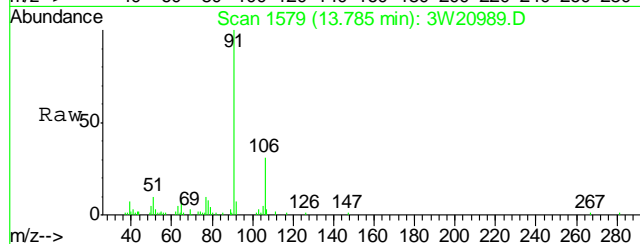
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#70
ETHYLBENZENE
Concen: 0.40 PPBV
RT: 13.78 min Scan# 1579
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

Tgt Ion:	91	Resp:	23833
Ion Ratio	Lower	Upper	
91	100		
106	30.7	11.5	51.5
77	8.7	0.0	28.4

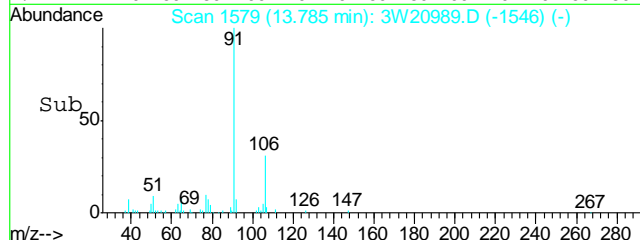
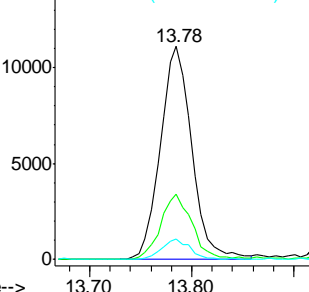


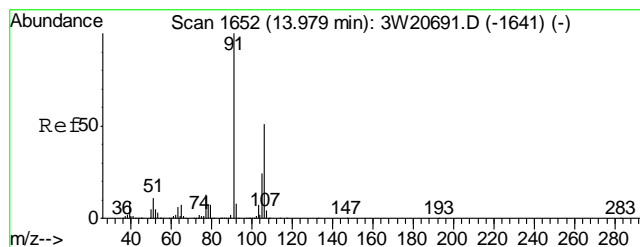
Abundance

Ion 91.00 (90.70 to 91.70): 3W2

Ion 106.00 (105.70 to 106.70): 3

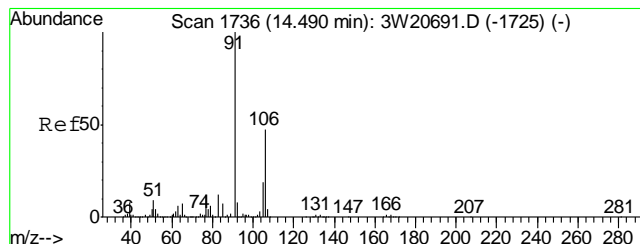
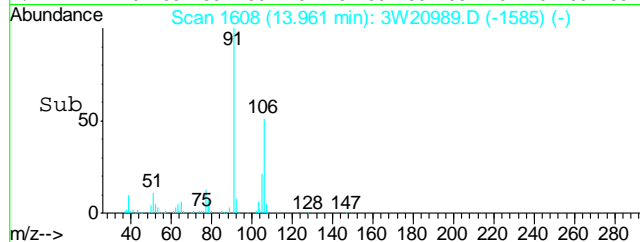
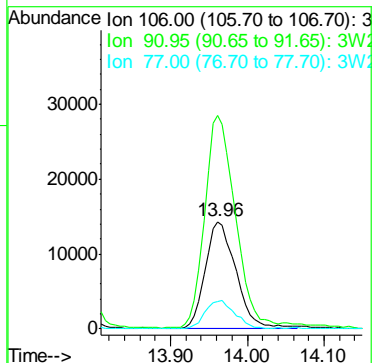
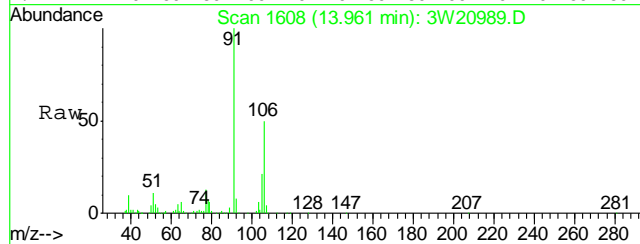
Ion 77.00 (76.70 to 77.70): 3W2





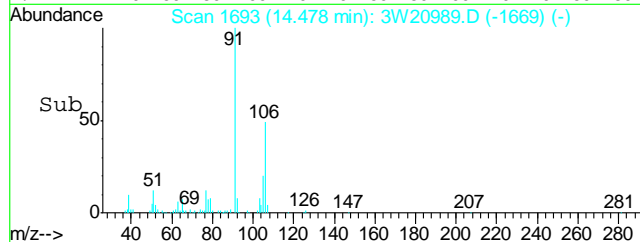
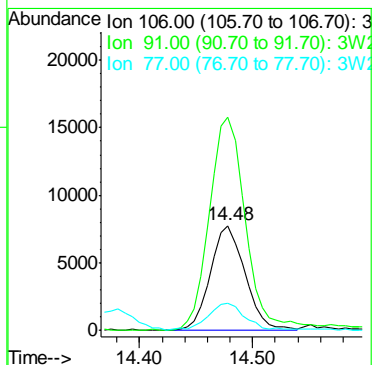
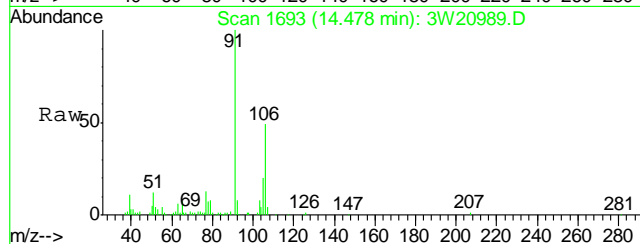
#71
m,p-XYLENE
Concen: 1.80 PPBV
RT: 13.96 min Scan# 1608
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

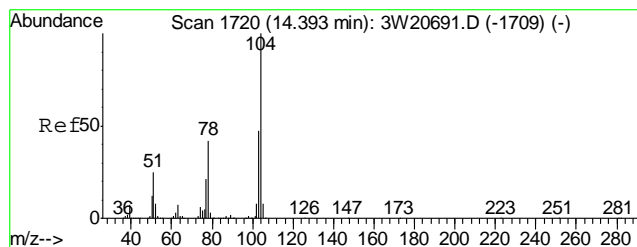
Tgt Ion	Ratio	Lower	Upper
106	100		
91	199.4	176.1	216.1
77	25.8	4.4	44.4



#72
o-XYLENE
Concen: 0.79 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

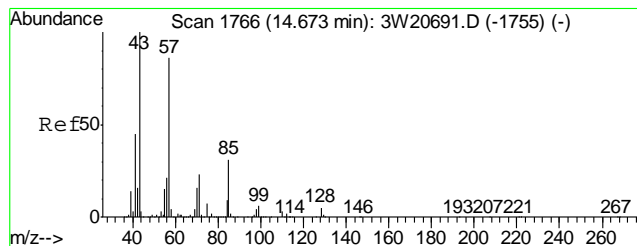
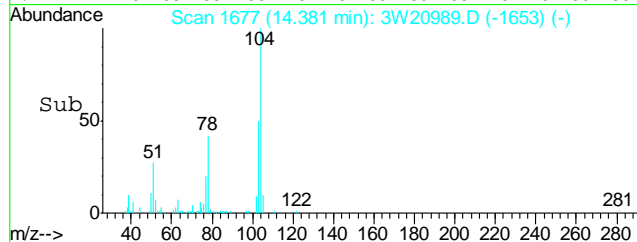
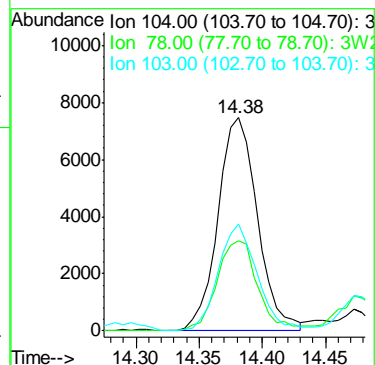
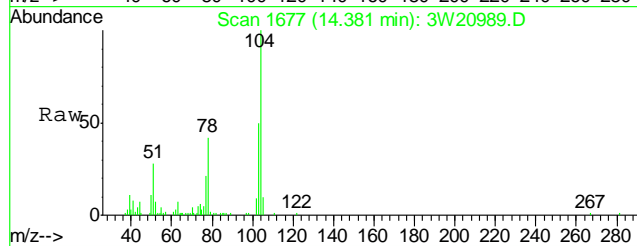
Tgt Ion	Ratio	Lower	Upper
106	100		
91	213.0	186.8	226.8
77	28.7	3.9	43.9





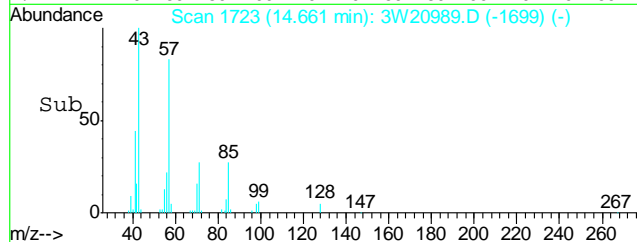
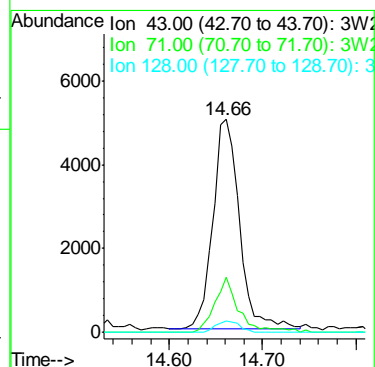
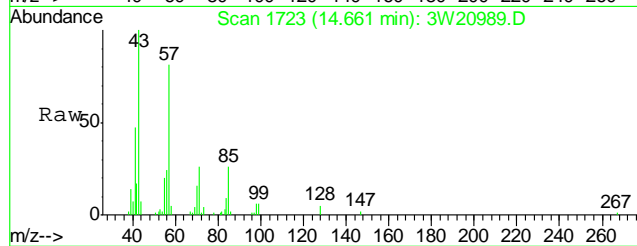
#73
 STYRENE
 Concen: 0.66 PPBV
 RT: 14.38 min Scan# 1677
 Delta R.T. -0.01 min
 Lab File: 3W20989.D
 Acq: 24 Feb 2011 8:55 pm

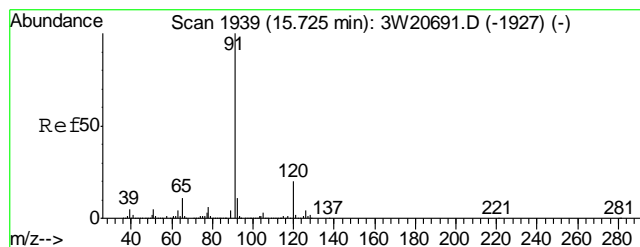
Tgt Ion	Ratio	Lower	Upper
104	100		
78	43.3	19.0	59.0
103	49.4	27.2	67.2



#74
 NONANE
 Concen: 0.29 PPBV
 RT: 14.66 min Scan# 1723
 Delta R.T. -0.01 min
 Lab File: 3W20989.D
 Acq: 24 Feb 2011 8:55 pm

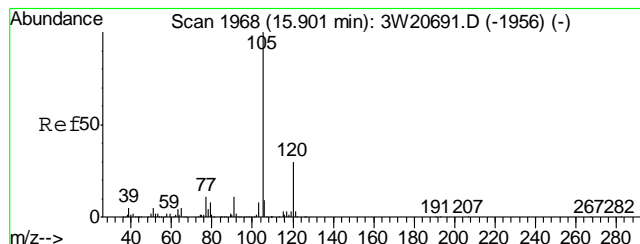
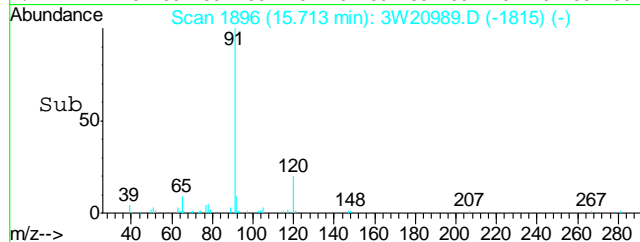
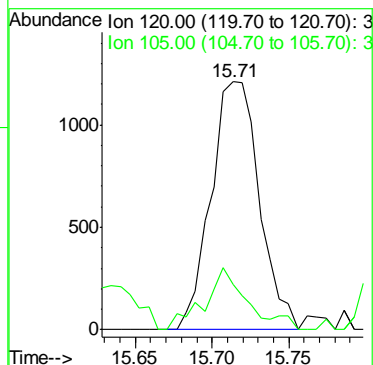
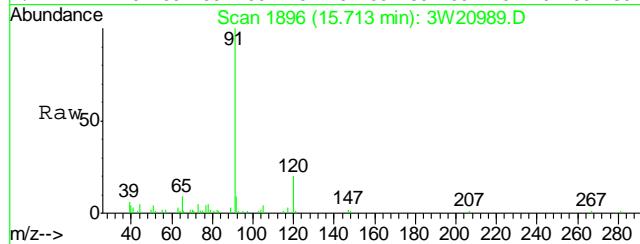
Tgt Ion	Ratio	Lower	Upper
43	100		
71	24.0	4.4	44.4
128	4.8	0.0	26.2





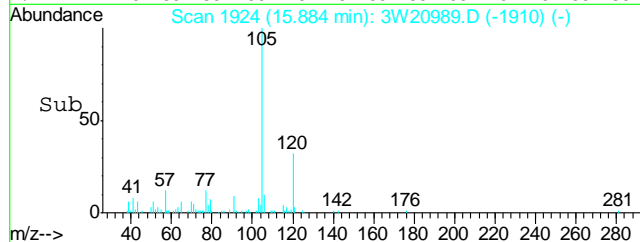
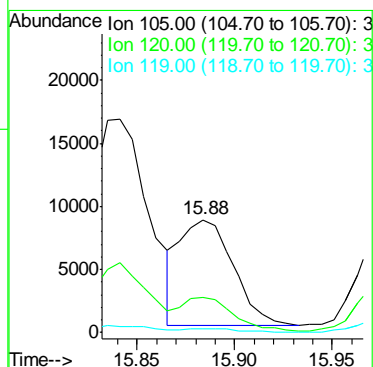
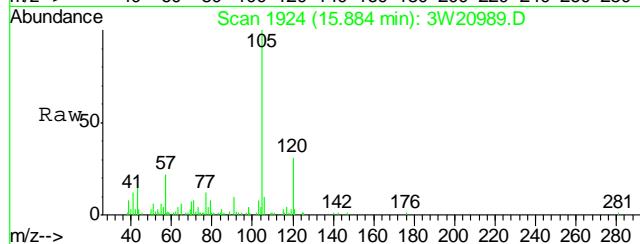
#81
n-PROPYLBENZENE
Concen: 0.20 PPBV
RT: 15.71 min Scan# 1896
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

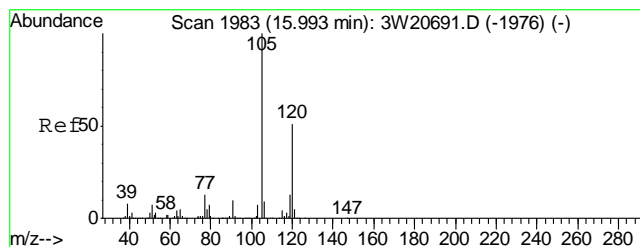
Tgt Ion:120 Resp: 2648
Ion Ratio Lower Upper
120 100
105 22.4 0.0 36.5



#82
4-ETHYLTOLUENE
Concen: 0.37 PPBV
RT: 15.88 min Scan# 1924
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

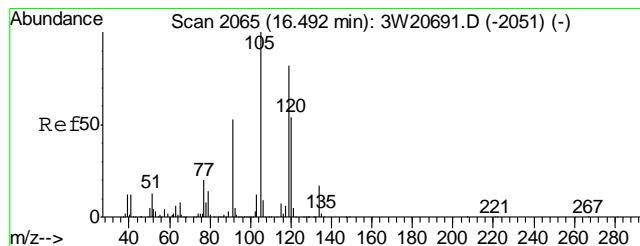
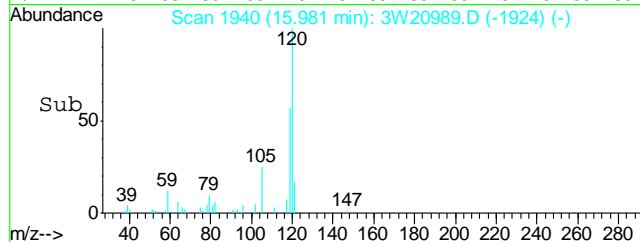
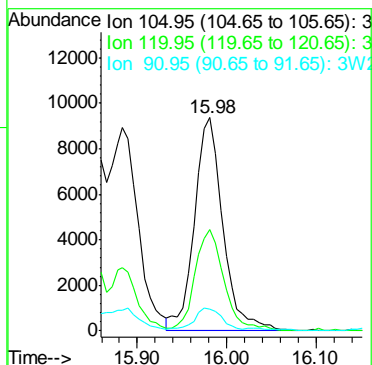
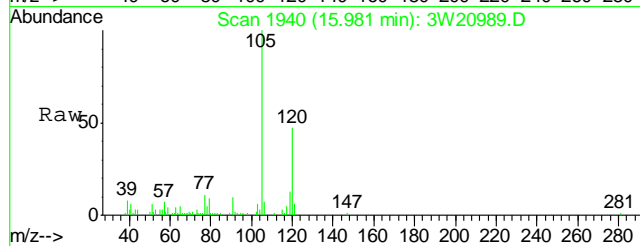
Tgt Ion:105 Resp: 15889
Ion Ratio Lower Upper
105 100
120 30.9 10.0 50.0
119 4.4 0.0 22.6





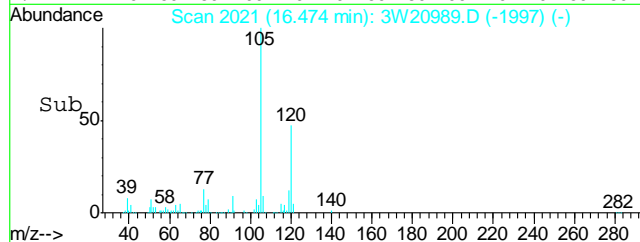
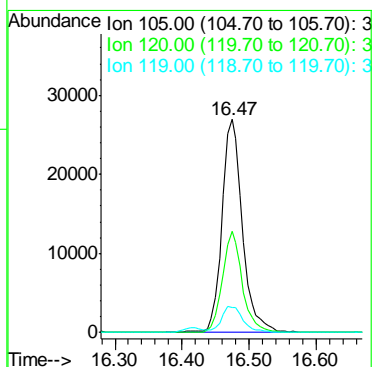
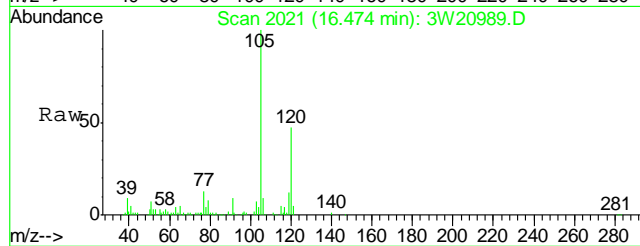
#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.56 PPBV
RT: 15.98 min Scan# 1940
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

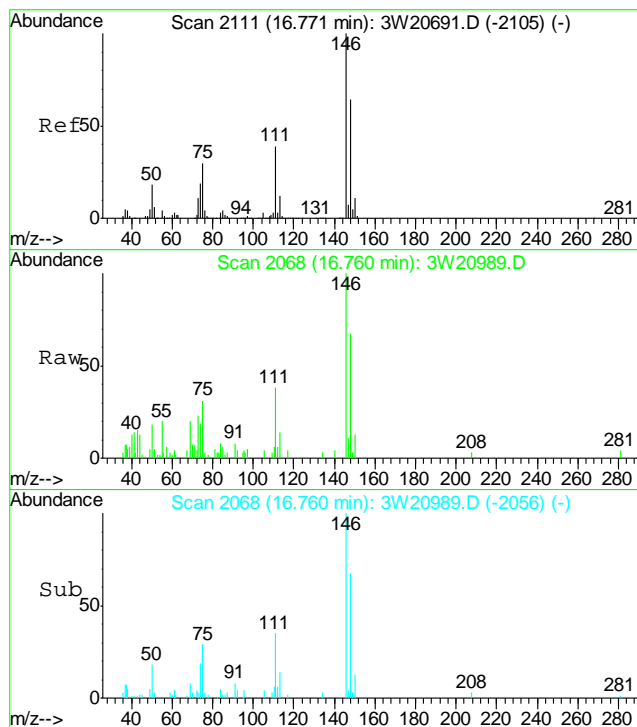
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.8	31.4	71.4
91	8.8	0.0	29.6



#85
1,2,4-TRIMETHYLBENZENE
Concen: 1.82 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W20989.D
Acq: 24 Feb 2011 8:55 pm

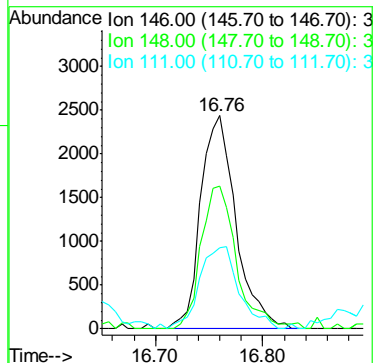
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	39.2	79.2
119	13.0	104.5	144.5#





#88
 p-DICHLOROBENZENE
 Concen: 0.28 PPBV
 RT: 16.76 min Scan# 2068
 Delta R.T. -0.01 min
 Lab File: 3W20989.D
 Acq: 24 Feb 2011 8:55 pm

Tgt Ion:	146	Resp:	5558
Ion Ratio	Lower	Upper	
146	100		
148	67.4	44.2	84.2
111	43.4	14.5	54.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20990.D Vial: 9
 Acq On : 24 Feb 2011 9:35 pm Operator: yunxiac
 Sample : ja68565-8 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:11:02 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	161395	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	793624	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.37	82	364139	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	364663	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 212679 5.49 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 109.80%

Target Compounds

						Qvalue
5) DICHLORODIFLUOROMETHANE	4.38	85	5382	0.11	PPBV	97
11) n-BUTANE	4.73	43	23388	0.75	PPBV #	94
17) ISOPROPYL ALCOHOL	5.64	45	80607m	3.06	PPBV	
18) ACETONE	5.38	58	183675	28.81	PPBV #	89
19) PENTANE	5.64	42	9304	0.43	PPBV #	67
23) CARBON DISULFIDE	6.17	76	27030	0.48	PPBV	76
24) ETHANOL	5.13	45	126260	19.21	PPBV	98
28) FREON 113	6.12	151	5844	0.18	PPBV	91
30) TERTIARY BUTYL ALCOHOL	6.12	59	4996m	0.17	PPBV	
33) HEXANE	7.49	57	5347	0.19	PPBV	92
36) METHYL ETHYL KETONE	7.11	72	5718	0.96	PPBV #	40
39) ETHYL ACETATE	7.62	61	1248	0.30	PPBV #	87
40) CHLOROFORM	7.66	83	10444	0.32	PPBV	97
46) BENZENE	8.89	78	5701	0.12	PPBV	93
49) TRICHLOROETHYLENE	9.82	95	2492	0.11	PPBV	96
54) HEPTANE	10.00	43	5859	0.18	PPBV	93
57) METHYL ISOBUTYL KETONE	10.76	58	971	0.09	PPBV #	73
59) TOLUENE	11.57	92	13016	0.43	PPBV	97
64) TETRACHLOROETHYLENE	12.70	164	2361	0.09	PPBV	98
67) OCTANE	12.48	43	6020	0.15	PPBV	92
70) ETHYLBENZENE	13.79	91	11111	0.19	PPBV	96
71) m,p-XYLENE	13.97	106	17807	0.83	PPBV	95
72) o-XYLENE	14.48	106	8978	0.45	PPBV	95
73) STYRENE	14.39	104	5345	0.23	PPBV	96
74) NONANE	14.66	43	5697	0.17	PPBV	98
82) 4-ETHYLTOLUENE	15.89	105	5256	0.13	PPBV	94
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	6767	0.19	PPBV	99
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	18762	0.62	PPBV #	29
88) p-DICHLOROBENZENE	16.76	146	5838	0.31	PPBV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20990.D M3W821.M Fri Feb 25 10:20:37 2011 MS3W

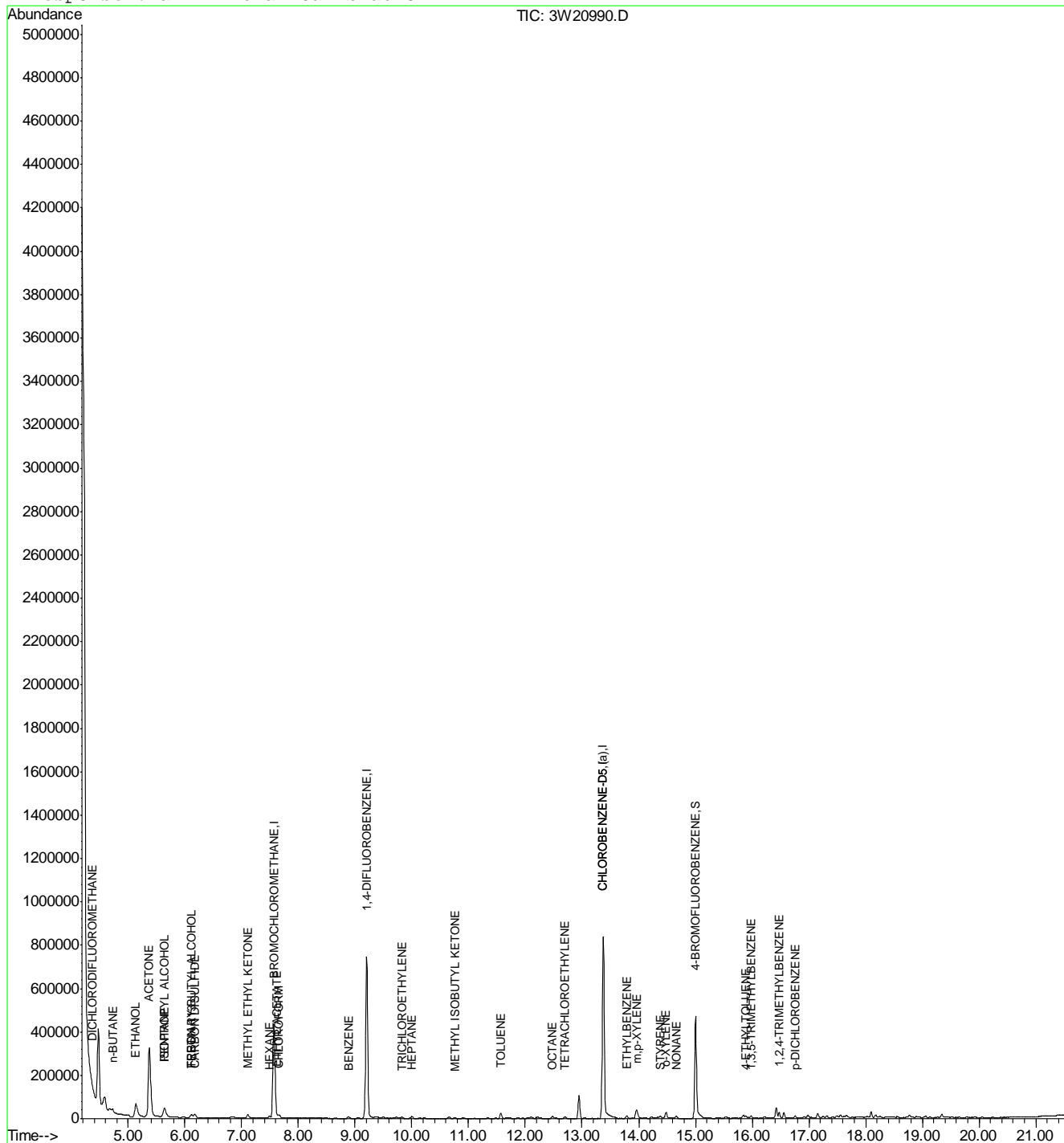
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20990.D
Acq On : 24 Feb 2011 9:35 pm
Sample : ja68565-8
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:22 2011

Vial: 9
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

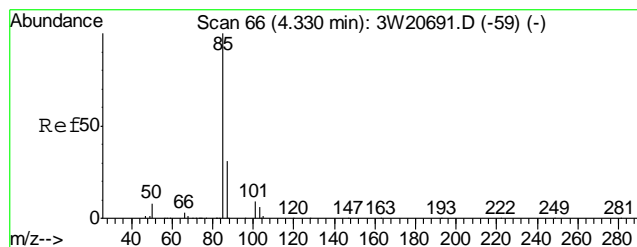


3W20990.D M3W821.M

Fri Feb 25 10:20:37 2011

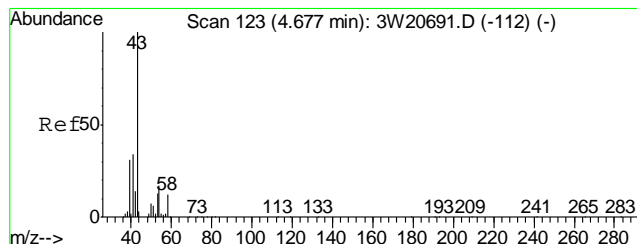
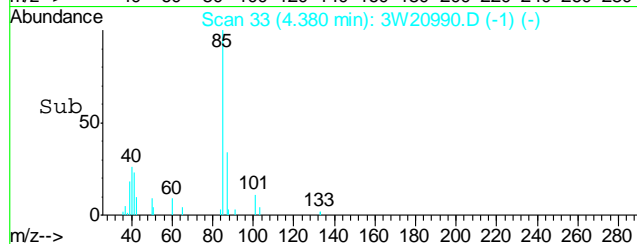
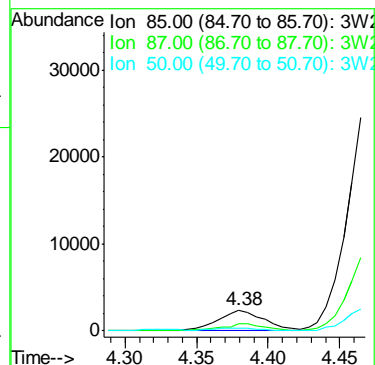
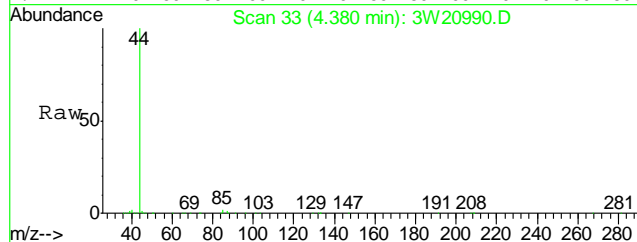
MS3W

Page 2



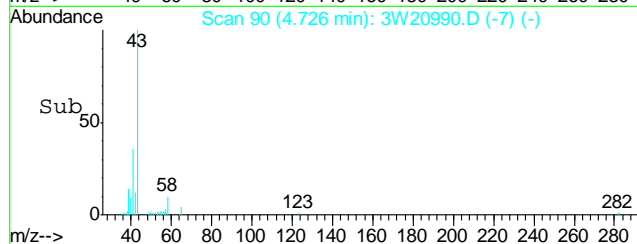
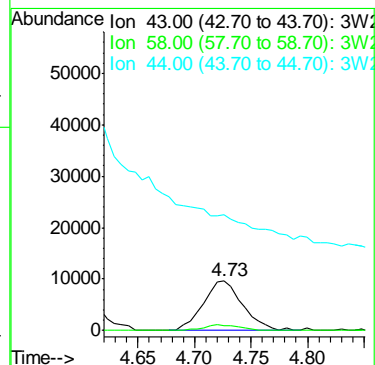
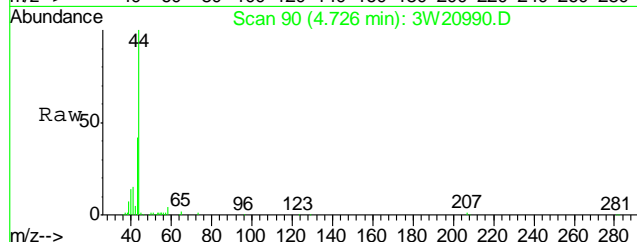
#5
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 4.38 min Scan# 33
Delta R.T. 0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

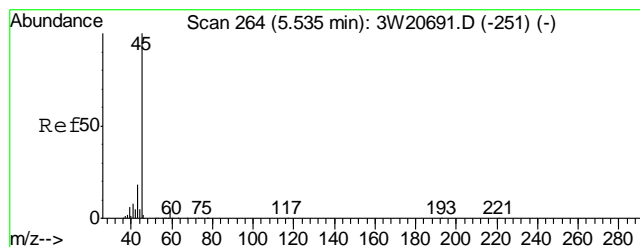
Tgt Ion:	85	Resp:	5382
Ion Ratio	Lower	Upper	
85	100		
87	33.0	12.9	52.9
50	15.1	0.0	30.6



#11
n-BUTANE
Concen: 0.75 PPBV
RT: 4.73 min Scan# 90
Delta R.T. 0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

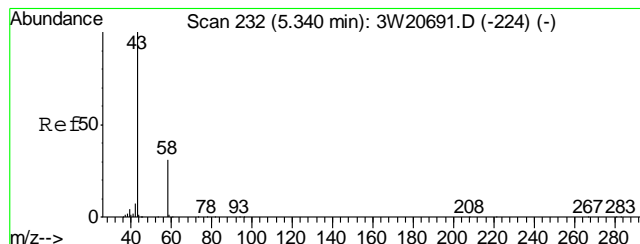
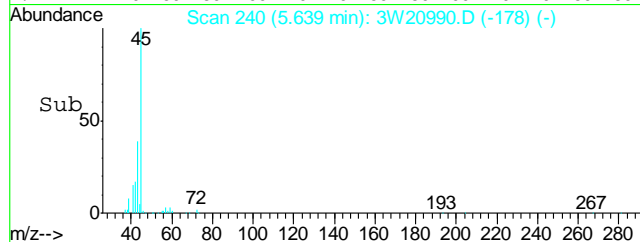
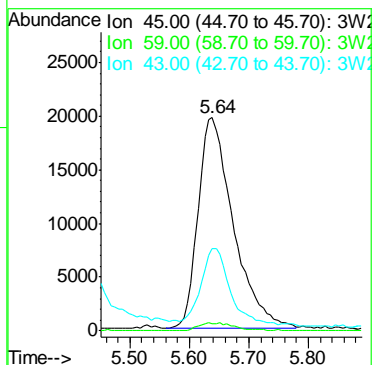
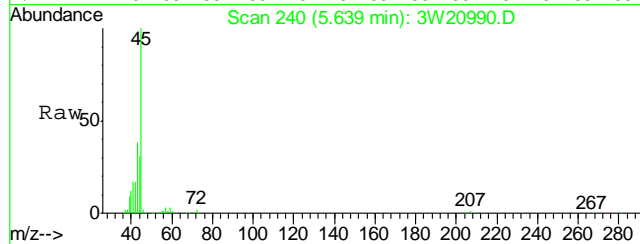
Tgt Ion:	43	Resp:	23388
Ion Ratio	Lower	Upper	
43	100		
58	10.5	0.0	32.1
44	0.0	0.0	23.9





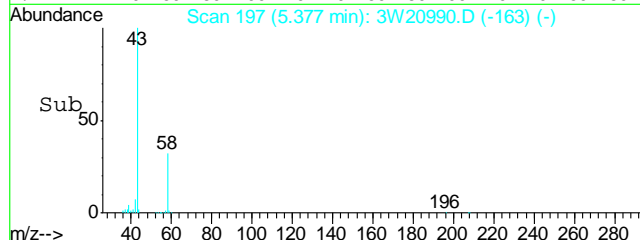
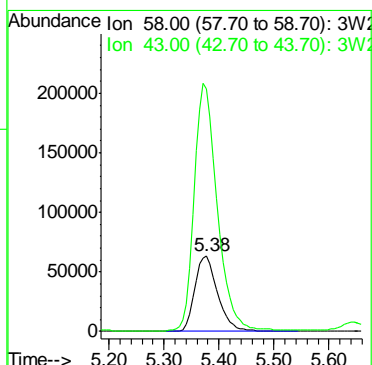
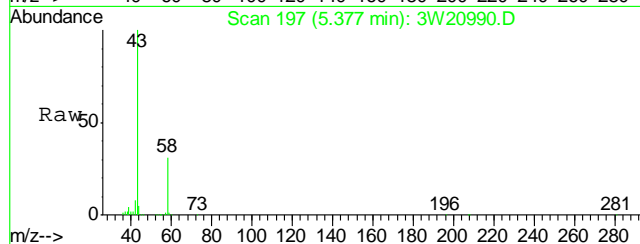
#17
ISOPROPYL ALCOHOL
Concen: 3.06 PPBV m
RT: 5.64 min Scan# 240
Delta R.T. 0.08 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

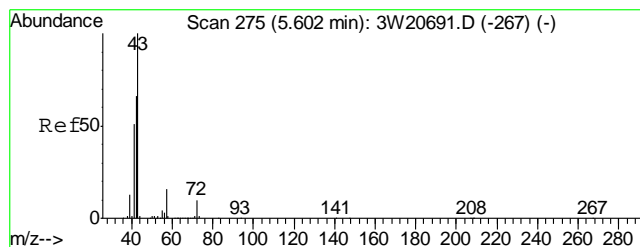
Tgt Ion:	45	Resp:	80607
Ion Ratio	Lower	Upper	
45	100		
59	3.1	0.0	23.7
43	38.4	0.0	37.4#



#18
ACETONE
Concen: 28.81 PPBV
RT: 5.38 min Scan# 197
Delta R.T. 0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

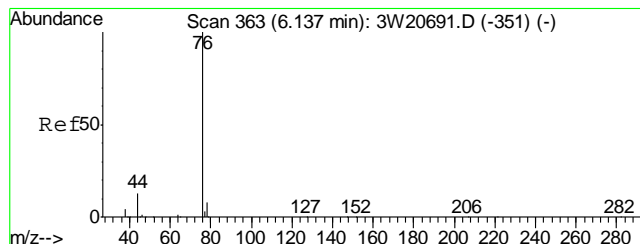
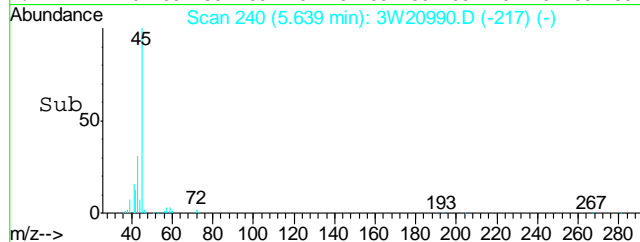
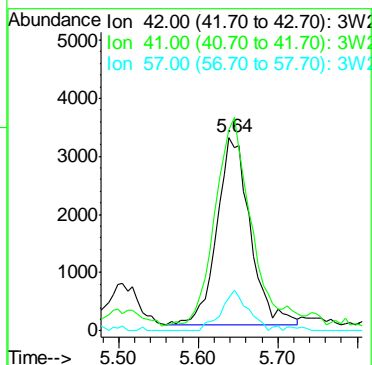
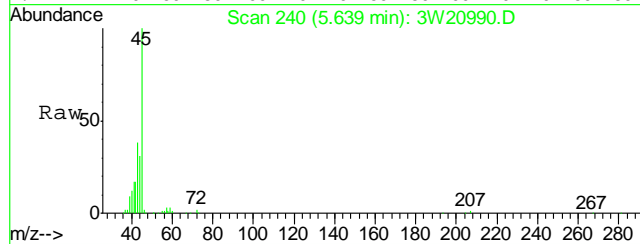
Tgt Ion:	58	Resp:	183675
Ion Ratio	Lower	Upper	
58	100		
43	330.6	289.1	329.1#





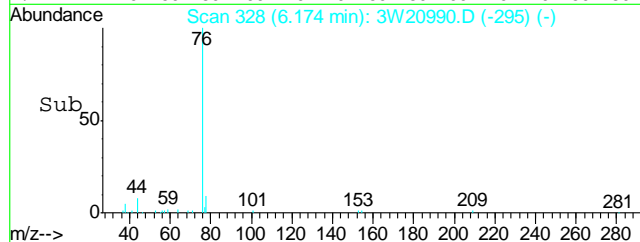
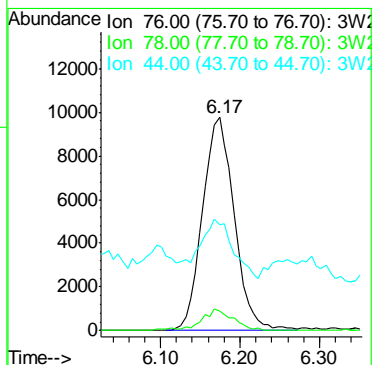
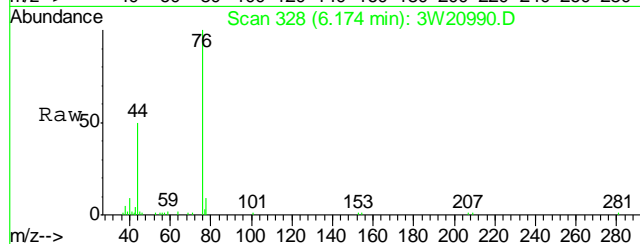
#19
PENTANE
Concen: 0.43 PPBV
RT: 5.64 min Scan# 240
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

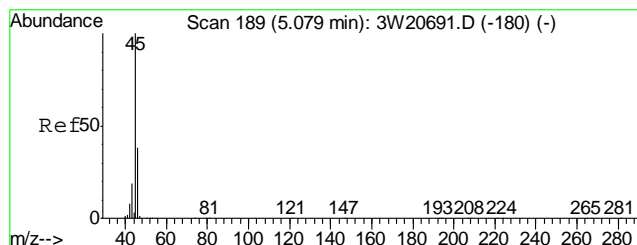
Tgt Ion	Ratio	Lower	Upper
42	100		
41	119.5	65.1	105.1#
57	17.5	5.2	45.2



#23
CARBON DISULFIDE
Concen: 0.48 PPBV
RT: 6.17 min Scan# 328
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

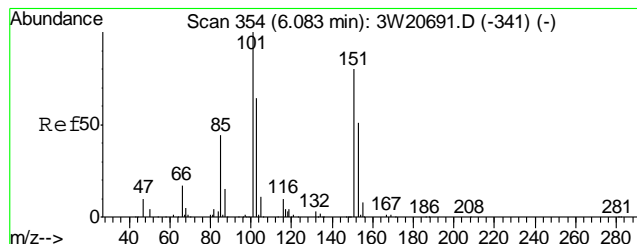
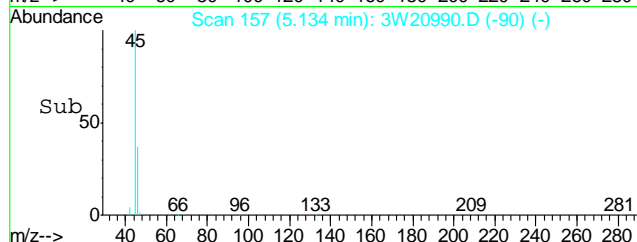
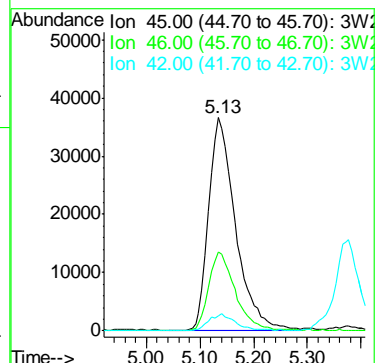
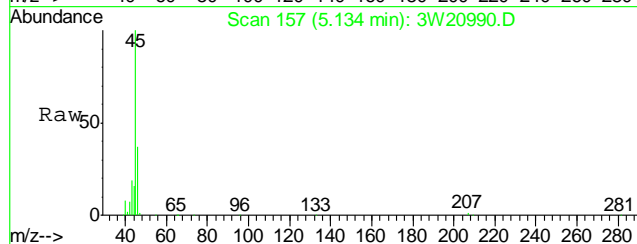
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	30.5
44	28.6	0.0	31.7





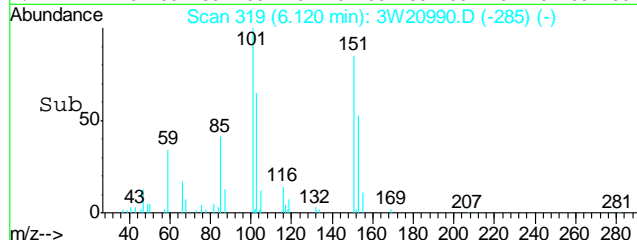
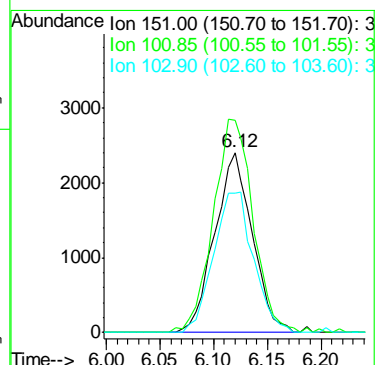
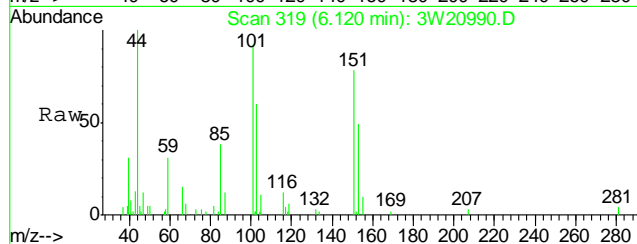
#24
 ETHANOL
 Concen: 19.21 PPBV
 RT: 5.13 min Scan# 157
 Delta R.T. 0.02 min
 Lab File: 3W20990.D
 Acq: 24 Feb 2011 9:35 pm

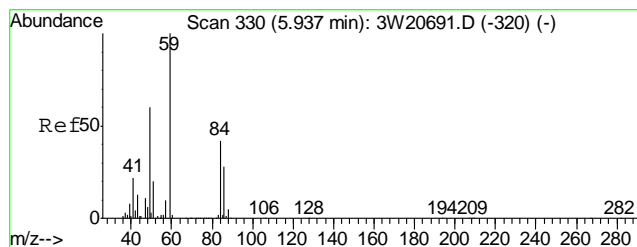
Tgt Ion:	45	Resp:	126260
Ion Ratio	Lower	Upper	
45	100		
46	37.1	18.2	58.2
42	7.7	0.0	27.7



#28
 FREON 113
 Concen: 0.18 PPBV
 RT: 6.12 min Scan# 319
 Delta R.T. 0.01 min
 Lab File: 3W20990.D
 Acq: 24 Feb 2011 9:35 pm

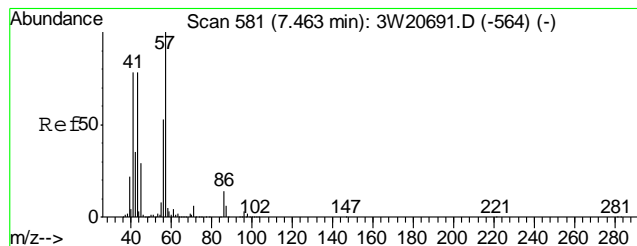
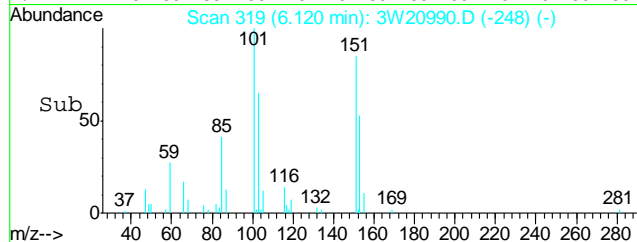
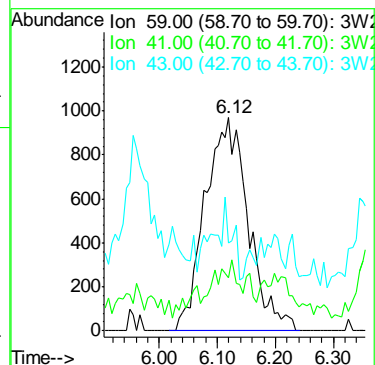
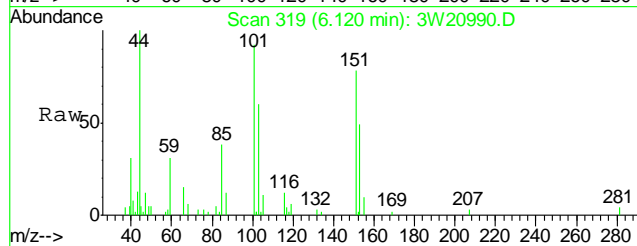
Tgt Ion:	151	Resp:	5844
Ion Ratio	Lower	Upper	
151	100		
101	125.3	95.5	135.5
103	82.8	54.9	94.9





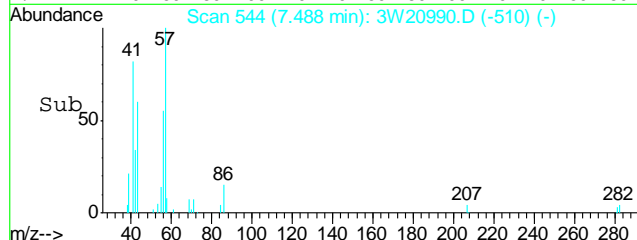
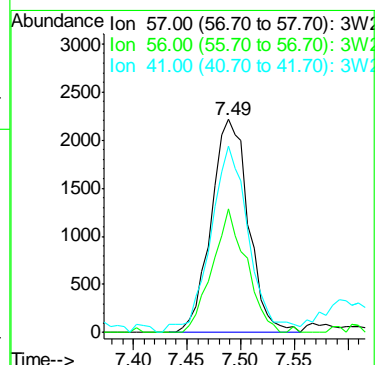
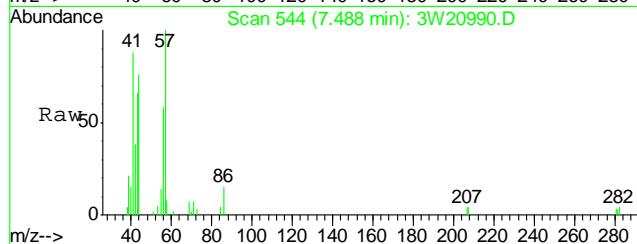
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.17 PPBV m
RT: 6.12 min Scan# 319
Delta R.T. 0.13 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

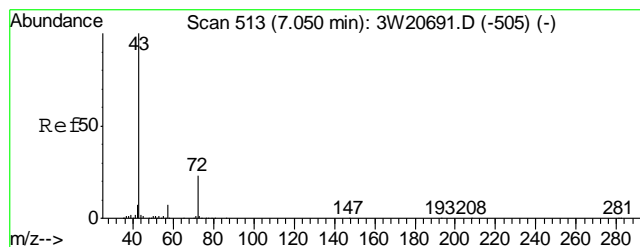
Tgt Ion	Resp	Lower	Upper
59	100		
41	7.4	0.0	38.0
43	7.9	0.0	33.0



#33
HEXANE
Concen: 0.19 PPBV
RT: 7.49 min Scan# 544
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

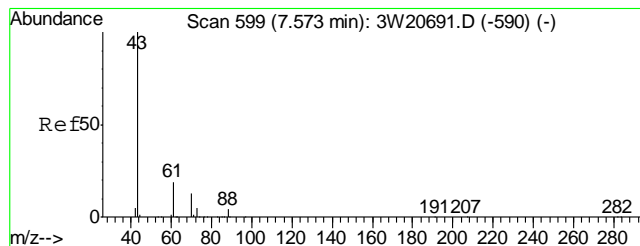
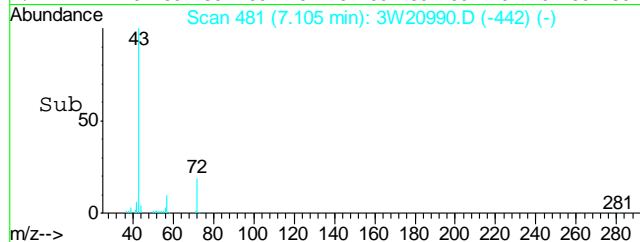
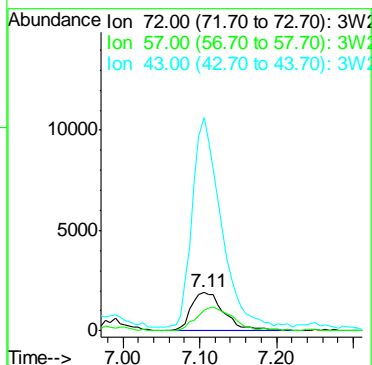
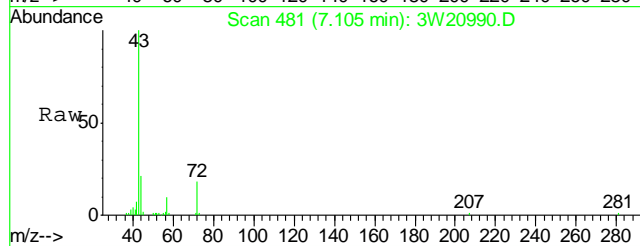
Tgt Ion	Resp	Lower	Upper
57	100		
56	53.1	30.5	70.5
41	89.6	79.2	119.2





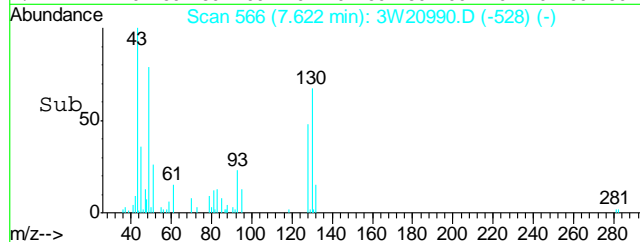
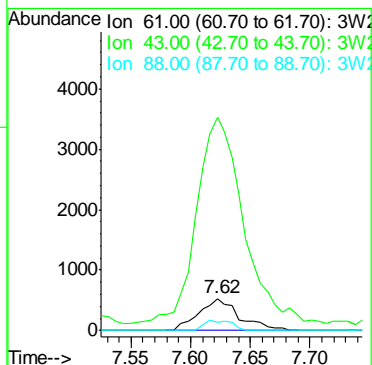
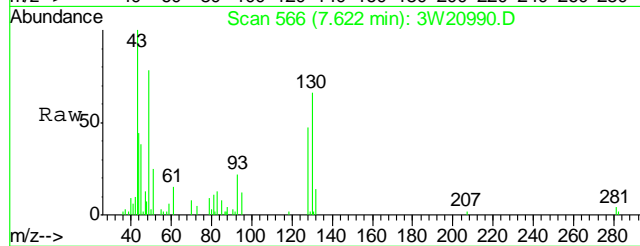
#36
METHYL ETHYL KETONE
Concen: 0.96 PPBV
RT: 7.11 min Scan# 481
Delta R.T. 0.03 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

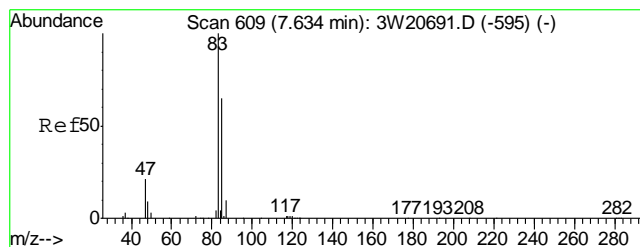
Tgt Ion	Ratio	Lower	Upper
72	100		
57	53.1	11.3	51.3#
43	550.4	384.1	424.1#



#39
ETHYL ACETATE
Concen: 0.30 PPBV
RT: 7.62 min Scan# 566
Delta R.T. 0.03 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

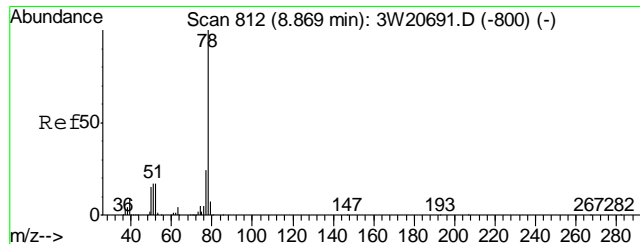
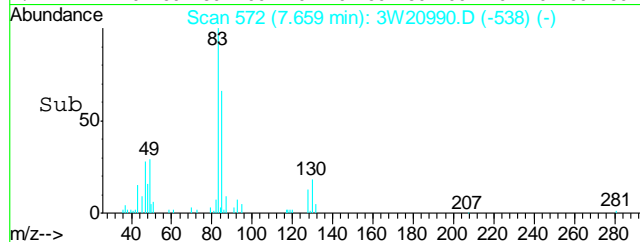
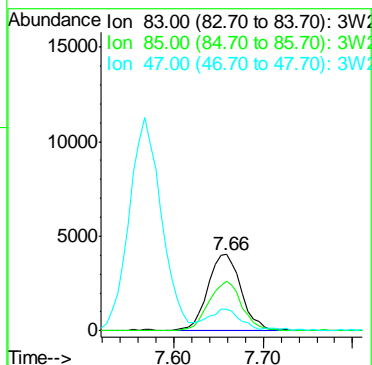
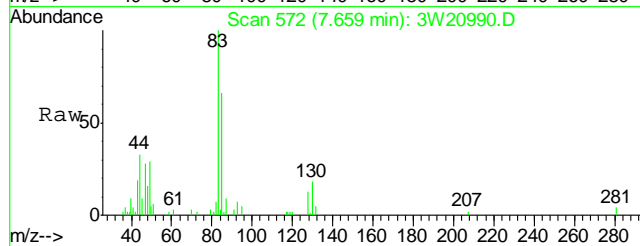
Tgt Ion	Ratio	Lower	Upper
61	100		
43	746.4	682.3	722.3#
88	21.6	6.1	46.1





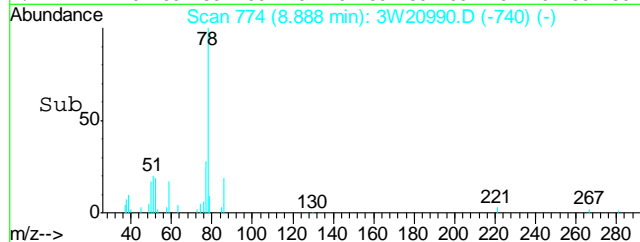
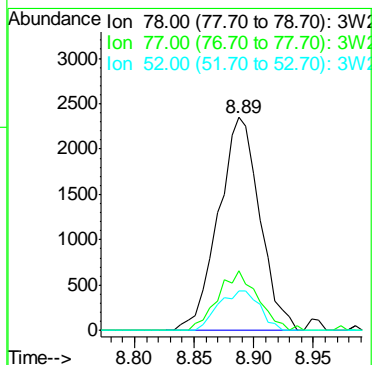
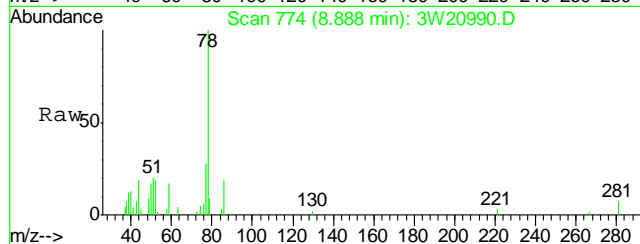
#40
CHLOROFORM
Concen: 0.32 PPBV
RT: 7.66 min Scan# 572
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

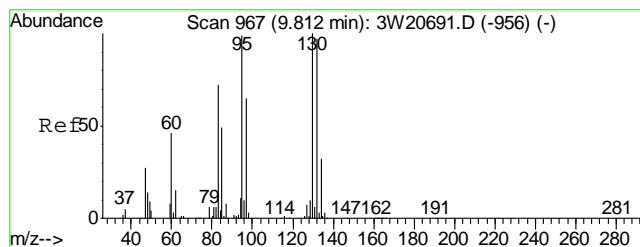
Tgt Ion:	83	Resp:	10444
Ion Ratio	Lower	Upper	
83	100		
85	64.3	44.4	84.4
47	27.3	1.8	41.8



#46
BENZENE
Concen: 0.12 PPBV
RT: 8.89 min Scan# 774
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

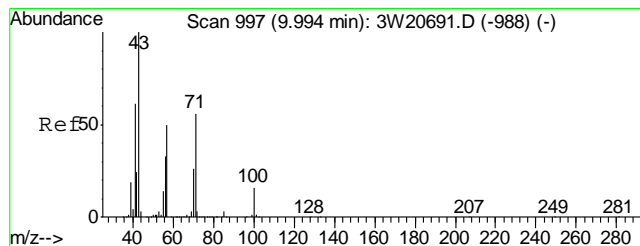
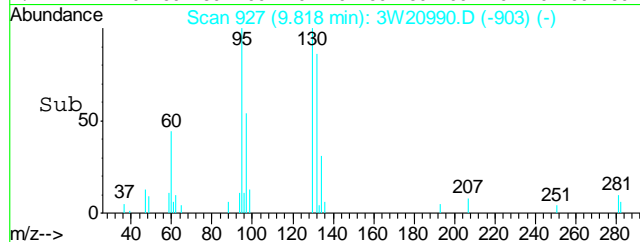
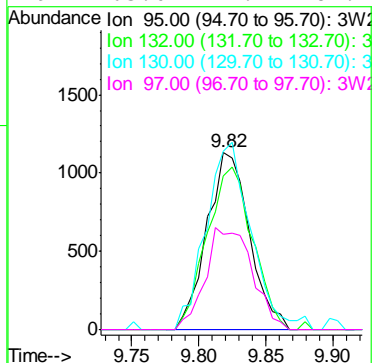
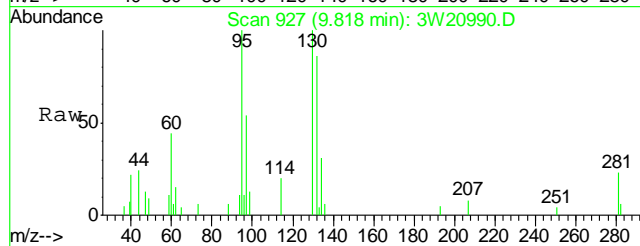
Tgt Ion:	78	Resp:	5701
Ion Ratio	Lower	Upper	
78	100		
77	27.1	3.6	43.6
52	18.5	0.0	35.5





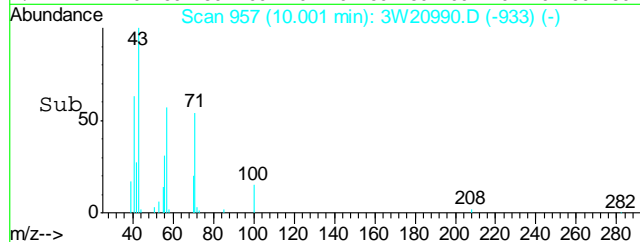
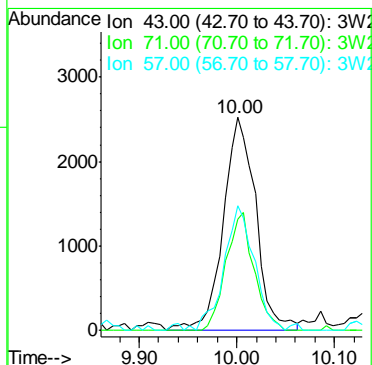
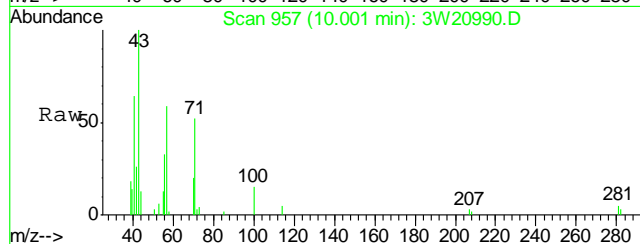
#49
TRICHLOROETHYLENE
Concen: 0.11 PPBV
RT: 9.82 min Scan# 927
Delta R.T. -0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

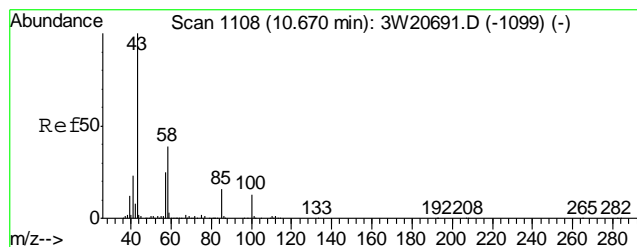
Tgt Ion	Ratio	Lower	Upper
95	100		
132	97.8	83.4	123.4
130	111.6	87.1	127.1
97	63.0	44.2	84.2



#54
HEPTANE
Concen: 0.18 PPBV
RT: 10.00 min Scan# 957
Delta R.T. -0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

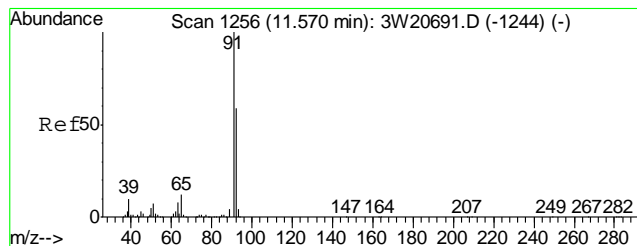
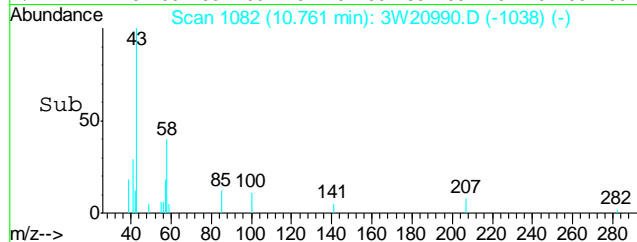
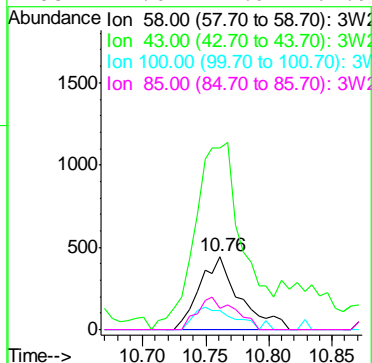
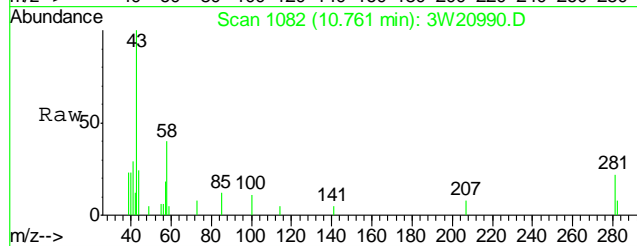
Tgt Ion	Ratio	Lower	Upper
43	100		
71	47.8	36.1	76.1
57	54.3	32.3	72.3





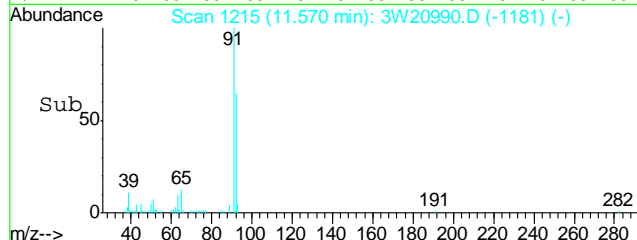
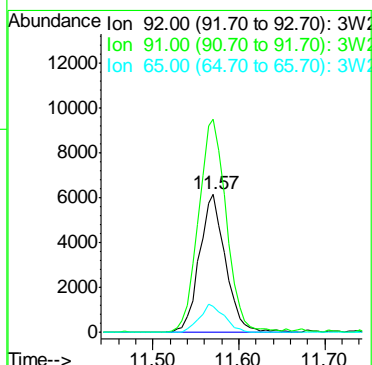
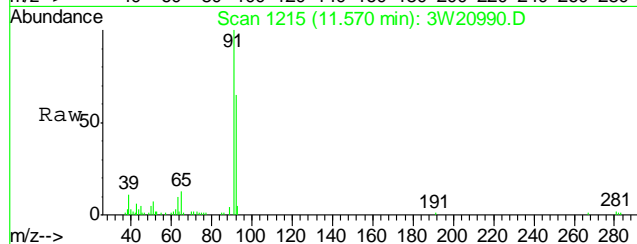
#57
METHYL ISOBUTYL KETONE
Concen: 0.09 PPBV
RT: 10.76 min Scan# 1082
Delta R.T. 0.09 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

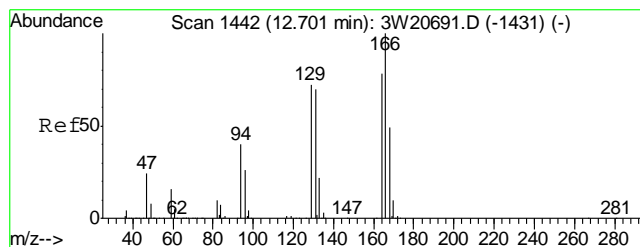
Tgt Ion:	58	Resp:	971
Ion Ratio	Lower	Upper	
58	100		
43	308.3	229.3	269.3#
100	32.2	14.1	54.1
85	41.0	24.9	64.9



#59
TOLUENE
Concen: 0.43 PPBV
RT: 11.57 min Scan# 1215
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

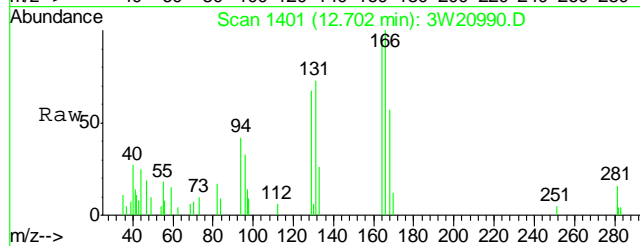
Tgt Ion:	92	Resp:	13016
Ion Ratio	Lower	Upper	
92	100		
91	164.0	148.6	188.6
65	19.6	0.0	38.0





#64
TETRACHLOROETHYLENE
Concen: 0.09 PPBV
RT: 12.70 min Scan# 1401
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

Tgt Ion:	164	Resp:	2361
Ion Ratio	Lower	Upper	
164	100		
129	85.9	65.6	105.6
168	61.9	42.3	82.3
131	87.5	63.0	103.0



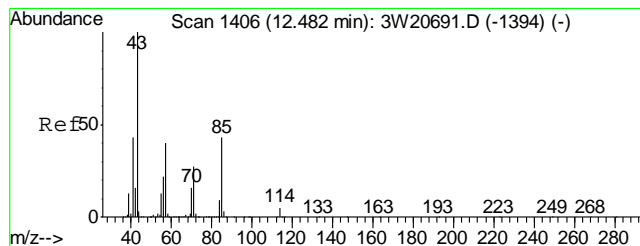
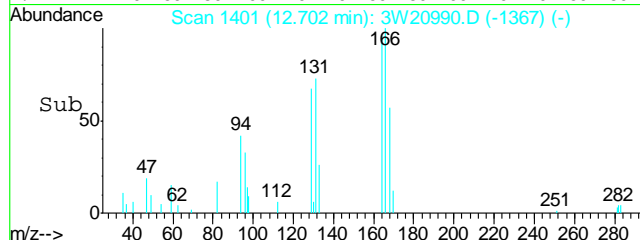
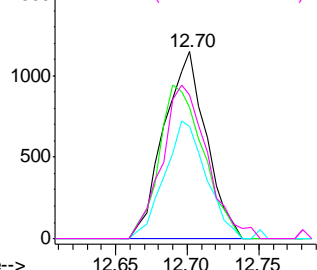
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

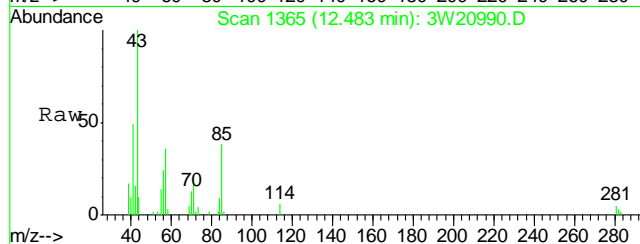
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#67
OCTANE
Concen: 0.15 PPBV
RT: 12.48 min Scan# 1365
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

Tgt Ion:	43	Resp:	6020
Ion Ratio	Lower	Upper	
43	100		
85	39.5	24.9	64.9
57	35.8	19.9	59.9

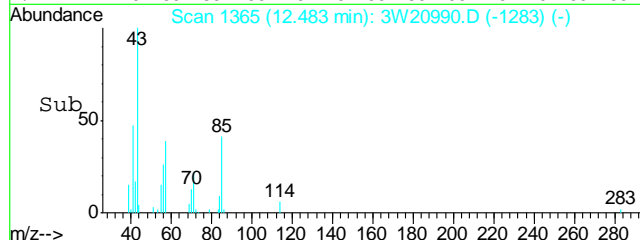
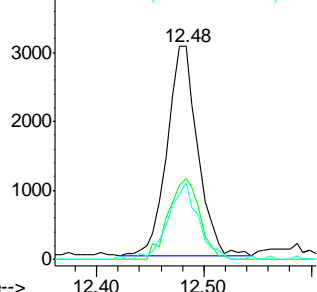


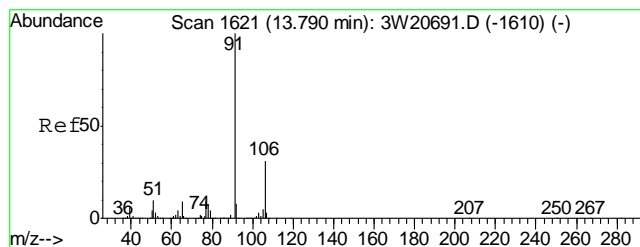
Abundance

Ion 43.00 (42.70 to 43.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

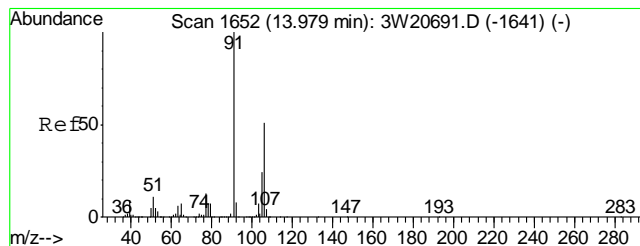
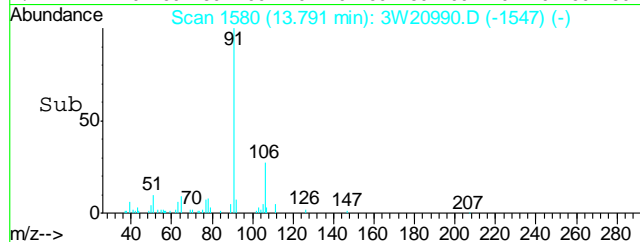
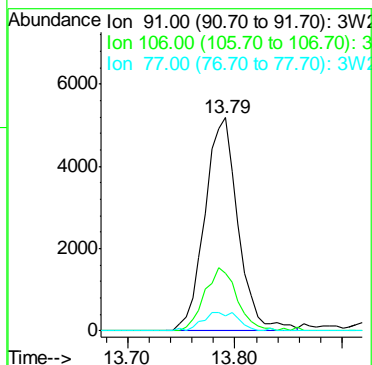
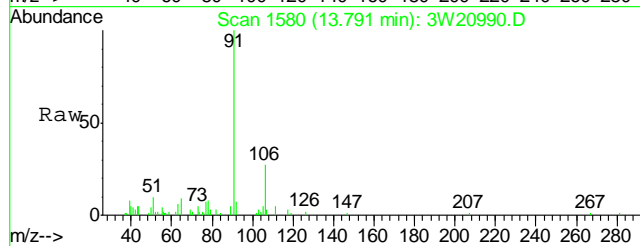
Ion 57.00 (56.70 to 57.70): 3W2





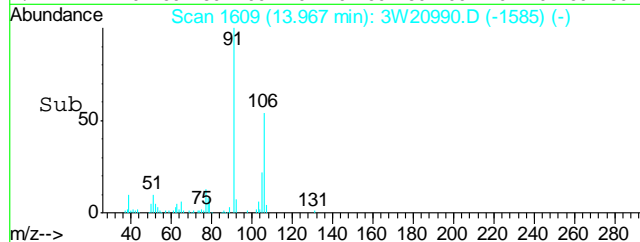
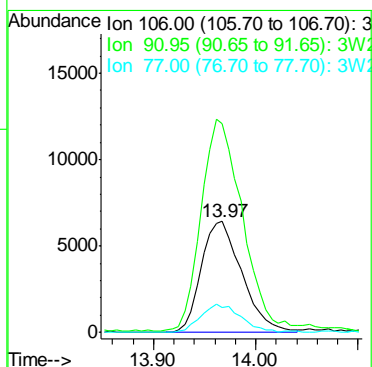
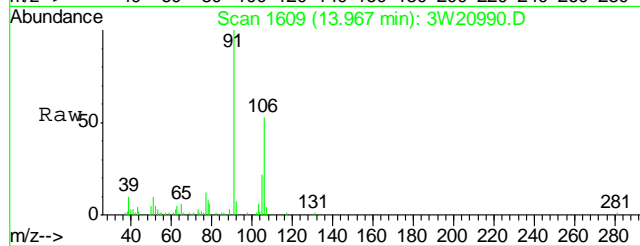
#70
ETHYLBENZENE
Concen: 0.19 PPBV
RT: 13.79 min Scan# 1580
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

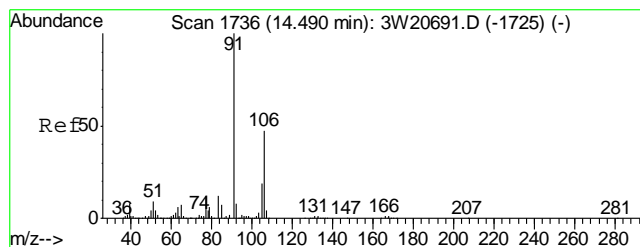
Tgt Ion:	91	Resp:	11111
Ion Ratio	Lower	Upper	
91	100		
106	28.9	11.5	51.5
77	9.3	0.0	28.4



#71
m,p-XYLENE
Concen: 0.83 PPBV
RT: 13.97 min Scan# 1609
Delta R.T. -0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

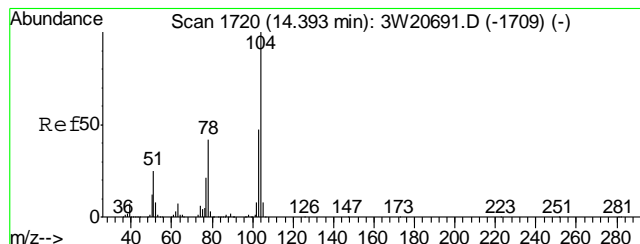
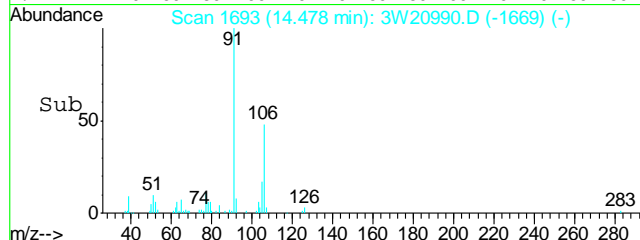
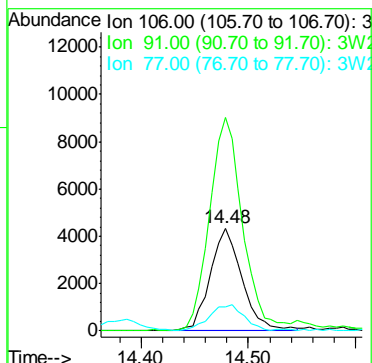
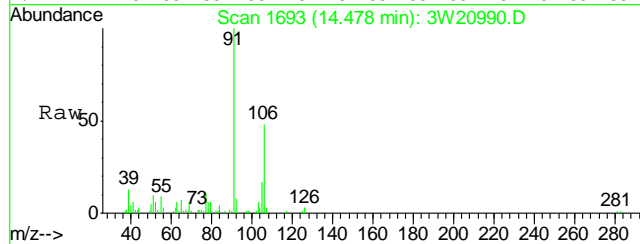
Tgt Ion:	106	Resp:	17807
Ion Ratio	Lower	Upper	
106	100		
91	188.4	176.1	216.1
77	22.9	4.4	44.4





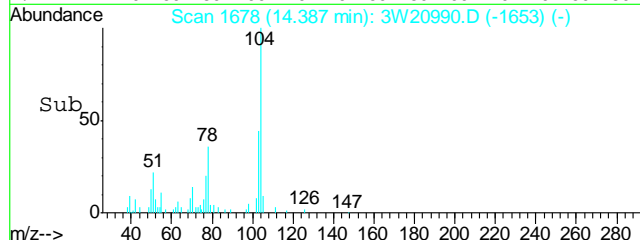
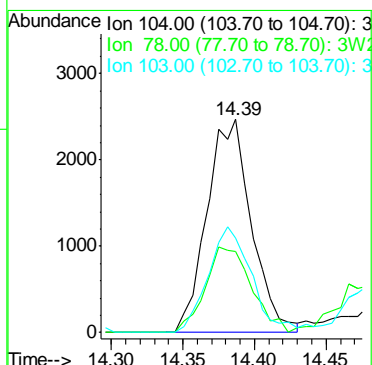
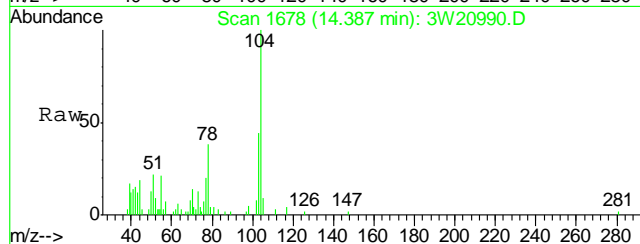
#72
o-XYLENE
Concen: 0.45 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

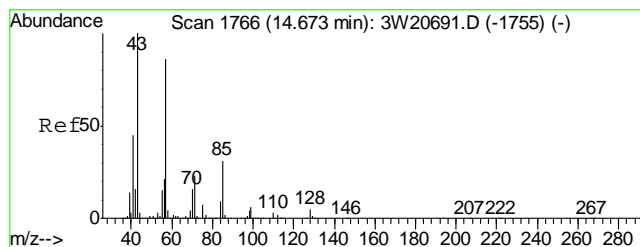
Tgt Ion	Ratio	Lower	Upper
106	100		
91	214.8	186.8	226.8
77	27.5	3.9	43.9



#73
STYRENE
Concen: 0.23 PPBV
RT: 14.39 min Scan# 1678
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

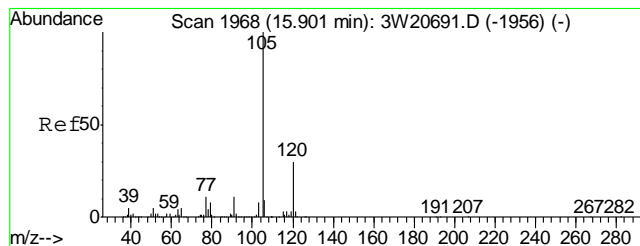
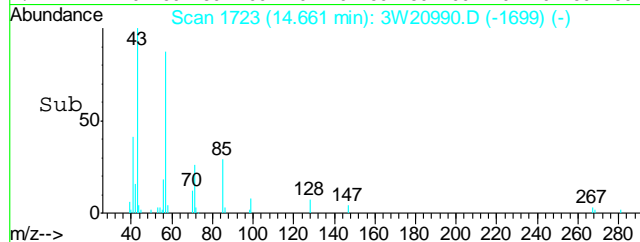
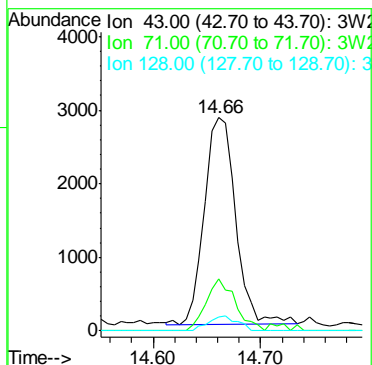
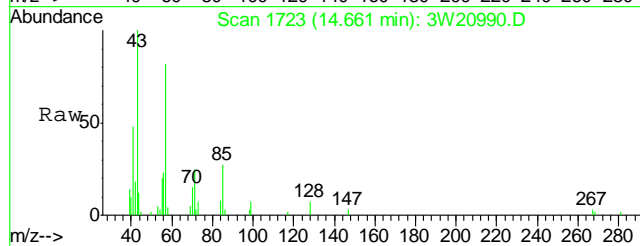
Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.9	19.0	59.0
103	49.0	27.2	67.2





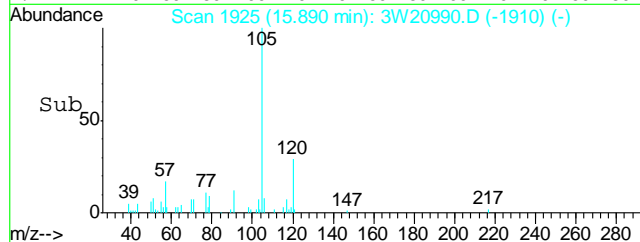
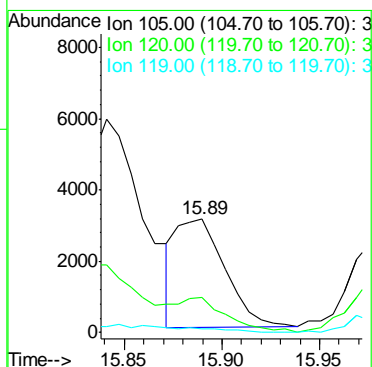
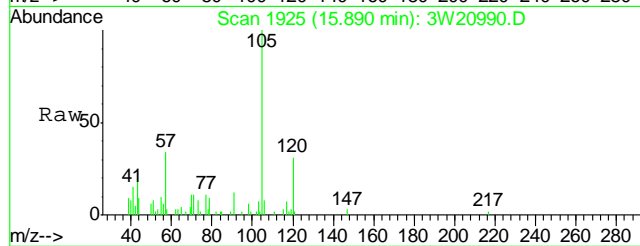
#74
NONANE
Concen: 0.17 PPBV
RT: 14.66 min Scan# 1723
Delta R.T. -0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

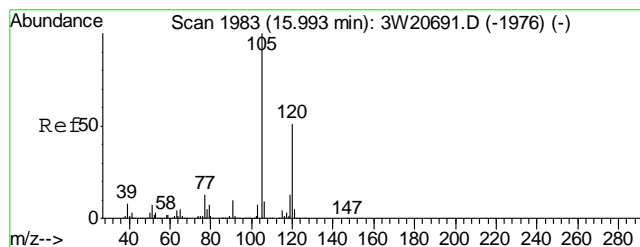
Tgt Ion	Ratio	Lower	Upper
43	100		
71	23.2	4.4	44.4
128	6.6	0.0	26.2



#82
4-ETHYLTOLUENE
Concen: 0.13 PPBV
RT: 15.89 min Scan# 1925
Delta R.T. -0.00 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

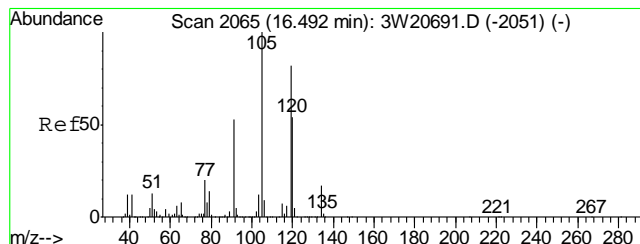
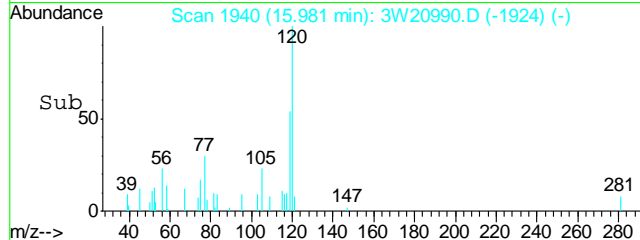
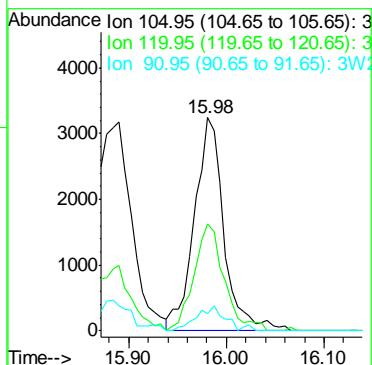
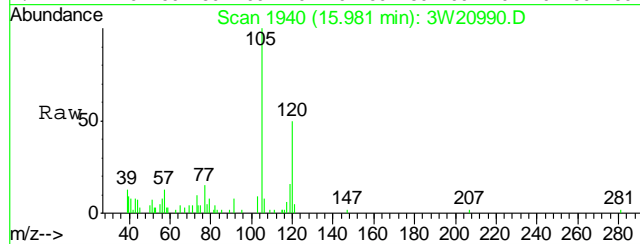
Tgt Ion	Ratio	Lower	Upper
105	100		
120	33.1	10.0	50.0
119	3.7	0.0	22.6





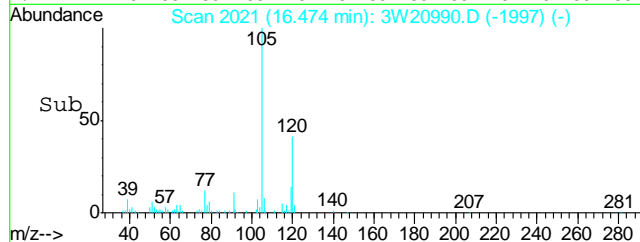
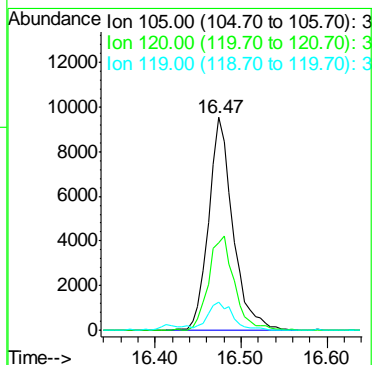
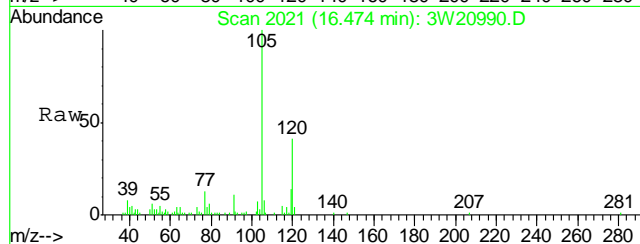
#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.19 PPBV
RT: 15.98 min Scan# 1940
Delta R.T. -0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

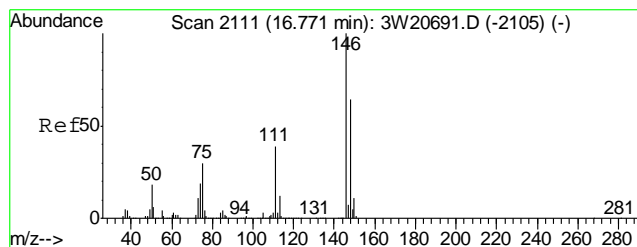
Tgt Ion:	105	Resp:	6767
Ion Ratio	Lower	Upper	
105	100		
120	51.4	31.4	71.4
91	11.6	0.0	29.6



#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.62 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

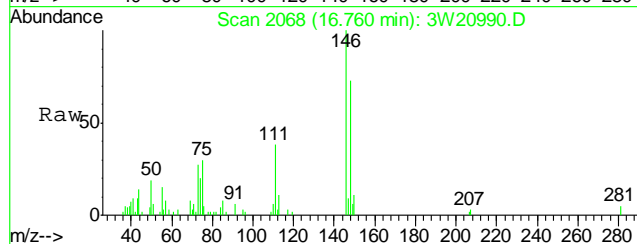
Tgt Ion:	105	Resp:	18762
Ion Ratio	Lower	Upper	
105	100		
120	47.1	39.2	79.2
119	14.5	104.5	144.5#





#88
p-DICHLOROBENZENE
Concen: 0.31 PPBV
RT: 16.76 min Scan# 2068
Delta R.T. -0.01 min
Lab File: 3W20990.D
Acq: 24 Feb 2011 9:35 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	65.6	44.2	84.2
111	39.8	14.5	54.5

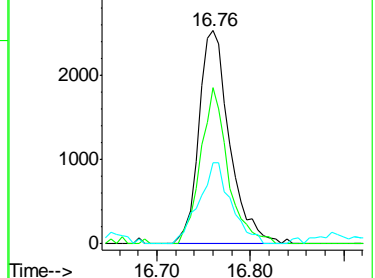
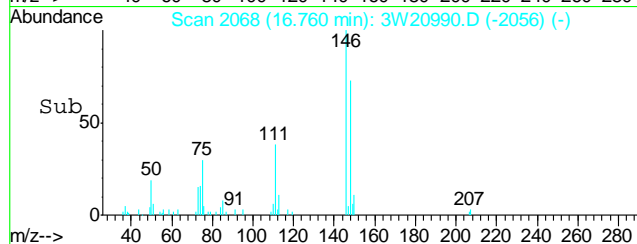


Abundance

Ion 146.00 (145.70 to 146.70): 3

Ion 148.00 (147.70 to 148.70): 3

Ion 111.00 (110.70 to 111.70): 3



Manual Integration Approval Summary

Sample Number: JA68565-8

Method: TO-15

Lab FileID: 3W20990.D

Analyst approved: 02/25/11 10:31 Yunxia Chen

Injection Time: 02/24/11 21:35

Supervisor approved: 03/10/11 05:28 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Isopropyl Alcohol	67-63-0		5.64	Missed peak
Tertiary Butyl Alcohol	75-65-0		6.12	Split peak

6.1.12.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20991.D Vial: 10
 Acq On : 24 Feb 2011 10:14 pm Operator: yunxiac
 Sample : ja68565-9 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:11:05 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	148472	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.21	114	707691	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	339708	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	339708	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 204005 5.65 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 113.00%

Target Compounds

Qvalue

5) DICHLORODIFLUOROMETHANE	4.39	85	6408	0.15	PPBV	97
6) PROPYLENE	4.35	41	16880	1.02	PPBV #	68
11) n-BUTANE	4.73	43	61483	2.14	PPBV #	93
17) ISOPROPYL ALCOHOL	5.66	45	77742m	3.21	PPBV	
18) ACETONE	5.39	58	97440	16.61	PPBV #	81
19) PENTANE	5.65	42	11258	0.57	PPBV #	67
23) CARBON DISULFIDE	6.18	76	9110	0.17	PPBV #	44
24) ETHANOL	5.16	45	55146	9.12	PPBV	100
28) FREON 113	6.13	151	21306	0.72	PPBV	95
33) HEXANE	7.49	57	5871	0.22	PPBV	99
36) METHYL ETHYL KETONE	7.00	72	5157	0.94	PPBV #	3
39) ETHYL ACETATE	7.63	61	1958	0.51	PPBV	96
46) BENZENE	8.89	78	5516	0.13	PPBV	94
49) TRICHLOROETHYLENE	9.82	95	35765	1.72	PPBV	96
54) HEPTANE	10.01	43	5766	0.20	PPBV	91
59) TOLUENE	11.57	92	15055	0.55	PPBV	99
64) TETRACHLOROETHYLENE	12.70	164	3723	0.15	PPBV	97
67) OCTANE	12.48	43	6937	0.18	PPBV	82
70) ETHYLBENZENE	13.78	91	7284	0.14	PPBV	95
71) m,p-XYLENE	13.97	106	10997	0.55	PPBV	96
72) o-XYLENE	14.48	106	4643	0.25	PPBV	91
73) STYRENE	14.39	104	2591	0.12	PPBV	95
82) 4-ETHYLTOLUENE	15.88	105	3901m	0.10	PPBV	
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	3910	0.12	PPBV	94
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	10320	0.37	PPBV #	29
88) p-DICHLOROBENZENE	16.76	146	2464	0.14	PPBV	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20991.D M3W821.M Fri Feb 25 10:20:41 2011 MS3W

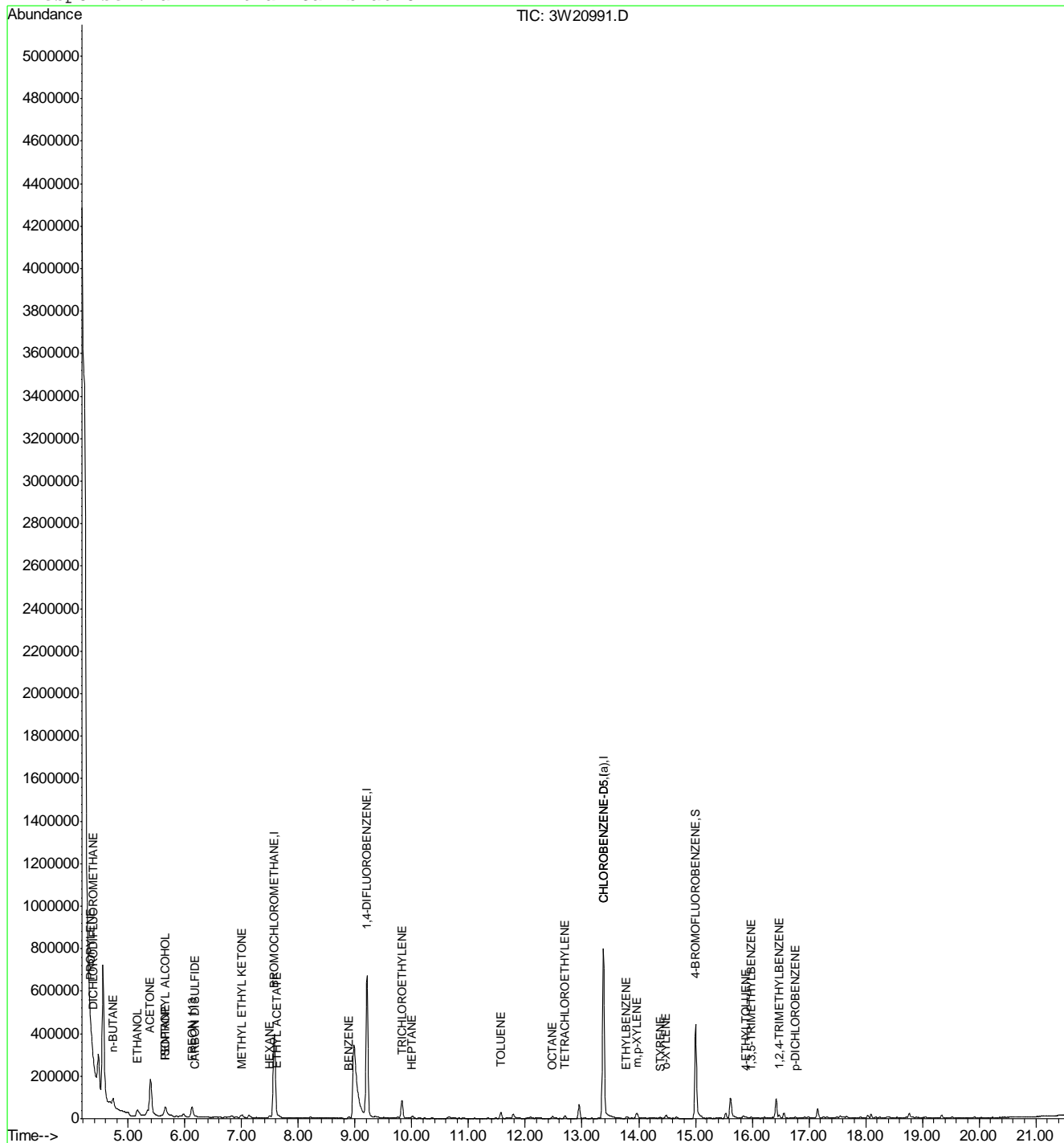
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20991.D
Acq On : 24 Feb 2011 10:14 pm
Sample : ja68565-9
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:25 2011

Vial: 10
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

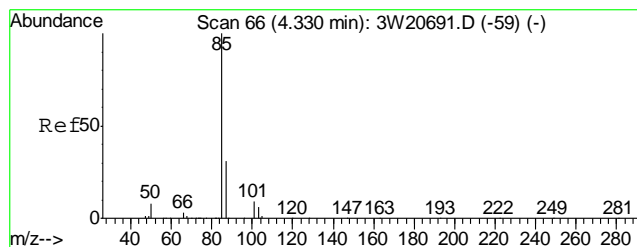


3W20991.D M3W821.M

Fri Feb 25 10:20:42 2011

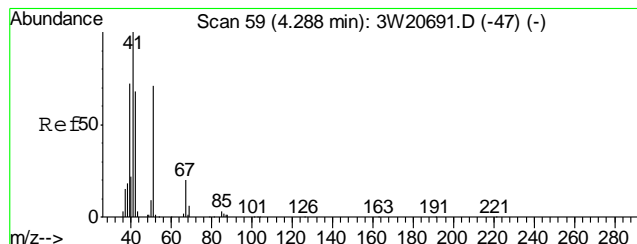
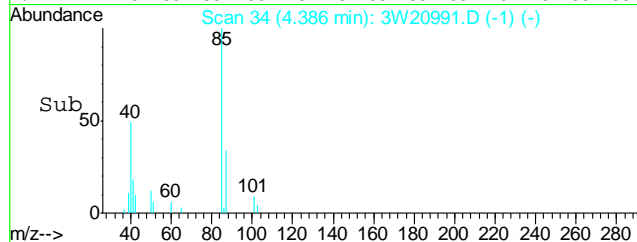
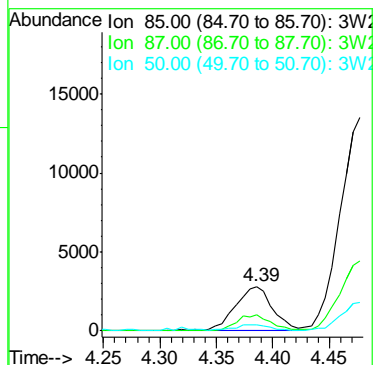
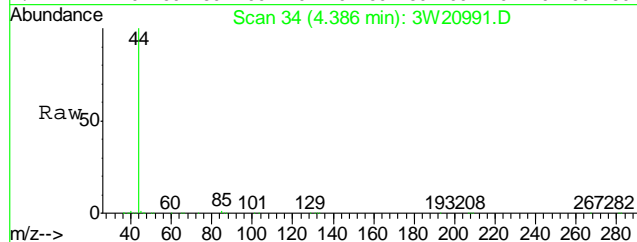
MS3W

Page 2



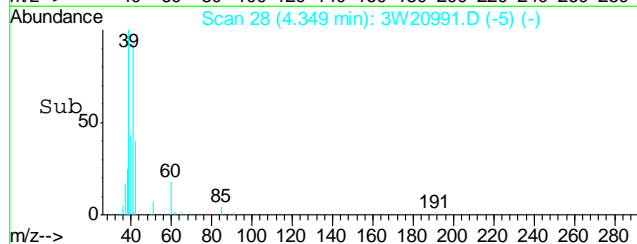
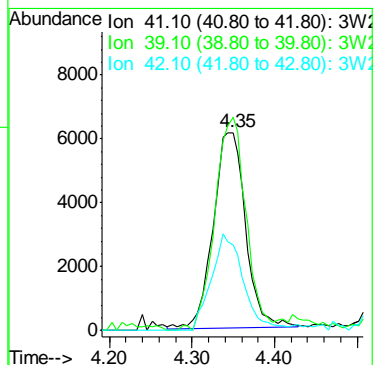
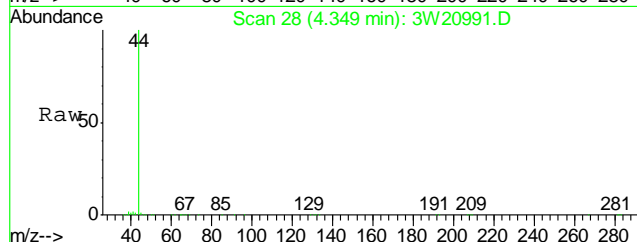
#5
 DICHLORODIFLUOROMETHANE
 Concen: 0.15 PPBV
 RT: 4.39 min Scan# 34
 Delta R.T. 0.01 min
 Lab File: 3W20991.D
 Acq: 24 Feb 2011 10:14 pm

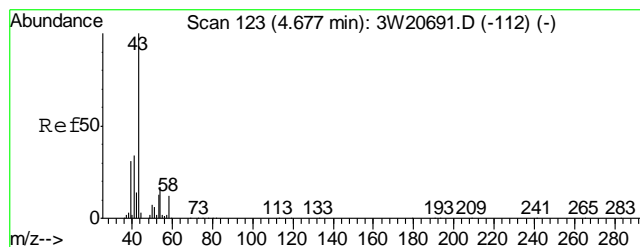
Tgt Ion:	85	Resp:	6408
Ion Ratio	Lower	Upper	
85	100		
87	34.0	12.9	52.9
50	13.6	0.0	30.6



#6
 PROPYLENE
 Concen: 1.02 PPBV
 RT: 4.35 min Scan# 28
 Delta R.T. 0.02 min
 Lab File: 3W20991.D
 Acq: 24 Feb 2011 10:14 pm

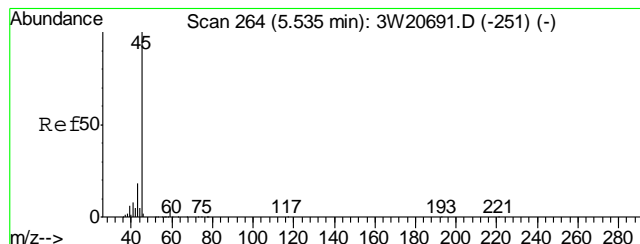
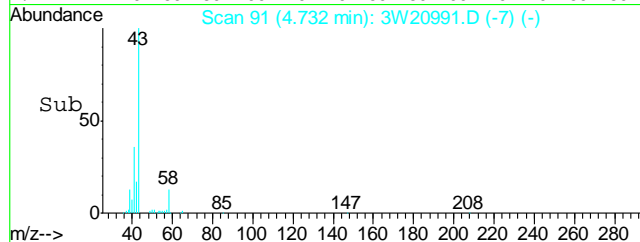
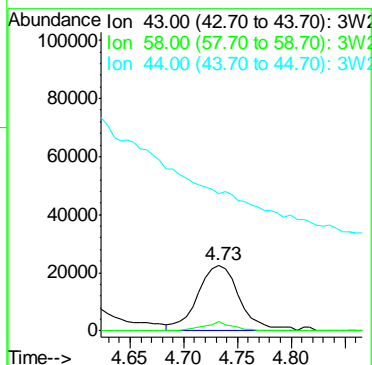
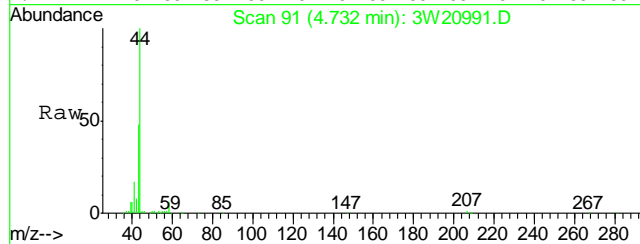
Tgt Ion:	41	Resp:	16880
Ion Ratio	Lower	Upper	
41	100		
39	105.1	50.7	90.7#
42	48.6	46.0	86.0





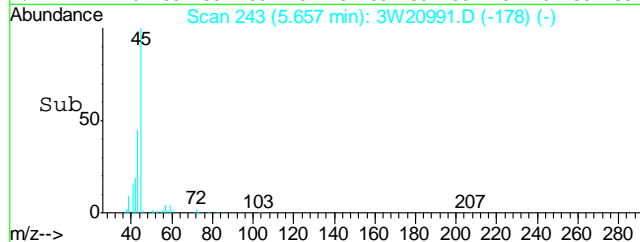
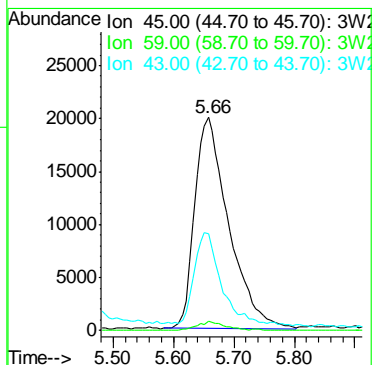
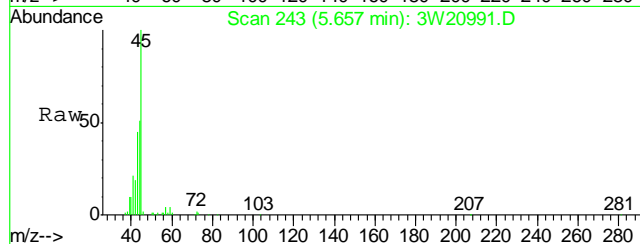
#11
n-BUTANE
Concen: 2.14 PPBV
RT: 4.73 min Scan# 91
Delta R.T. 0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

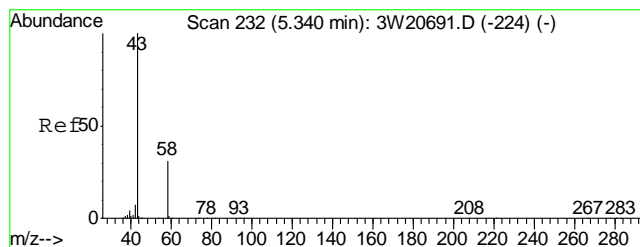
Tgt Ion	Ratio	Lower	Upper
43	100		
58	9.8	0.0	32.1
44	0.0	0.0	23.9



#17
ISOPROPYL ALCOHOL
Concen: 3.21 PPBV m
RT: 5.66 min Scan# 243
Delta R.T. 0.10 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

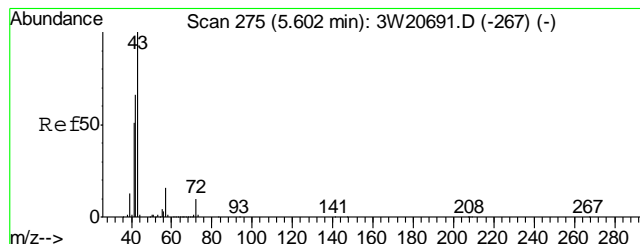
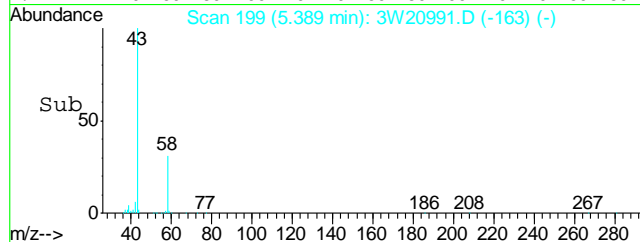
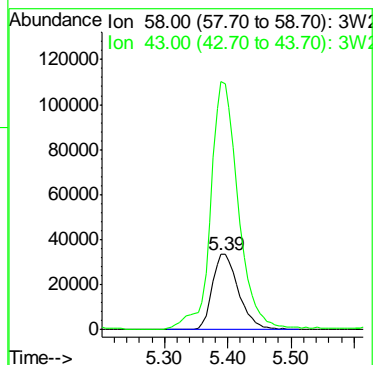
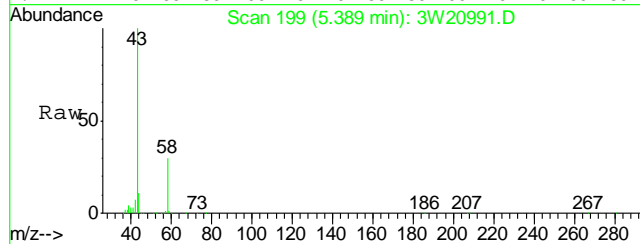
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.1	0.0	23.7
43	45.5	0.0	37.4#





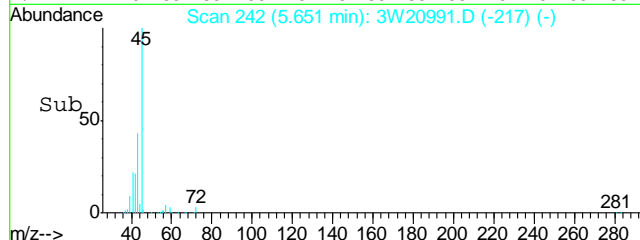
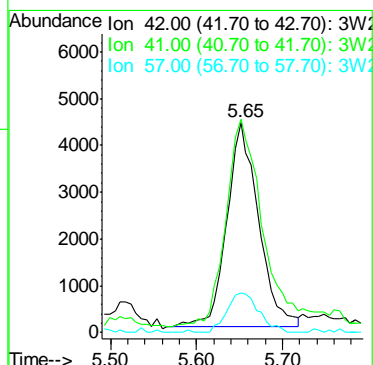
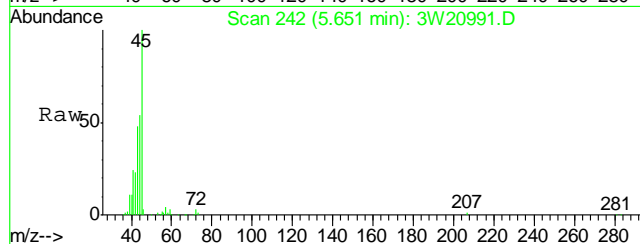
#18
 ACETONE
 Concen: 16.61 PPBV
 RT: 5.39 min Scan# 199
 Delta R.T. 0.02 min
 Lab File: 3W20991.D
 Acq: 24 Feb 2011 10:14 pm

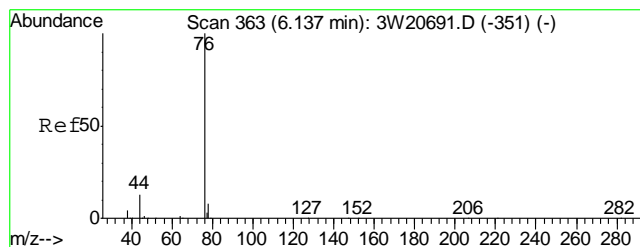
Tgt Ion: 58 Resp: 97440
 Ion Ratio Lower Upper
 58 100
 43 346.1 289.1 329.1#



#19
 PENTANE
 Concen: 0.57 PPBV
 RT: 5.65 min Scan# 242
 Delta R.T. 0.01 min
 Lab File: 3W20991.D
 Acq: 24 Feb 2011 10:14 pm

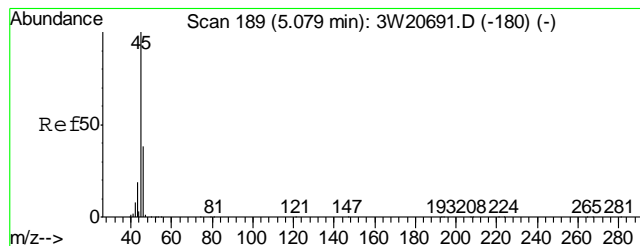
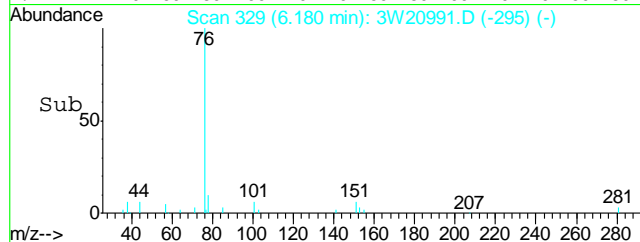
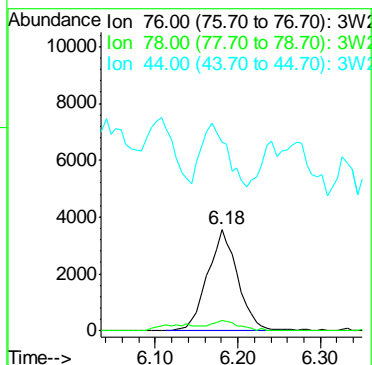
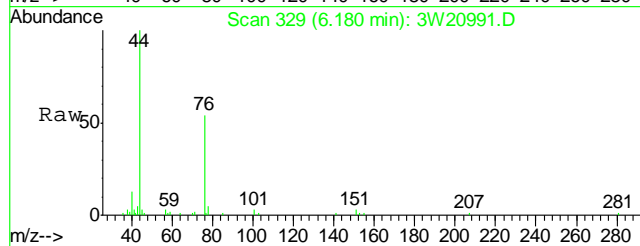
Tgt Ion: 42 Resp: 11258
 Ion Ratio Lower Upper
 42 100
 41 121.4 65.1 105.1#
 57 19.6 5.2 45.2





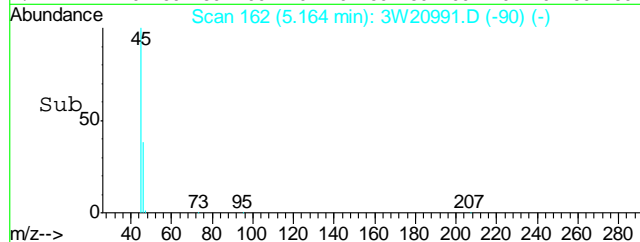
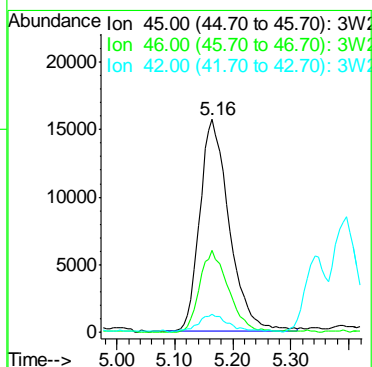
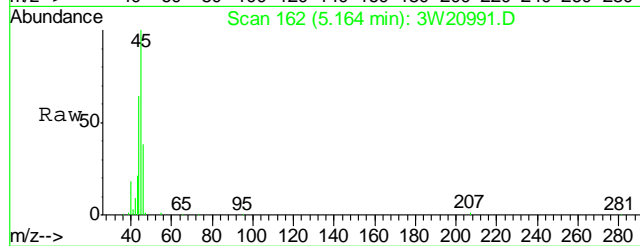
#23
 CARBON DISULFIDE
 Concen: 0.17 PPBV
 RT: 6.18 min Scan# 329
 Delta R.T. 0.01 min
 Lab File: 3W20991.D
 Acq: 24 Feb 2011 10:14 pm

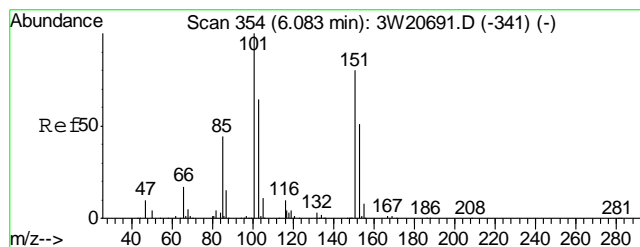
Tgt Ion:	76	Resp:	9110
Ion Ratio	Lower	Upper	
76	100		
78	10.0	0.0	30.5
44	52.1	0.0	31.7#



#24
 ETHANOL
 Concen: 9.12 PPBV
 RT: 5.16 min Scan# 162
 Delta R.T. 0.06 min
 Lab File: 3W20991.D
 Acq: 24 Feb 2011 10:14 pm

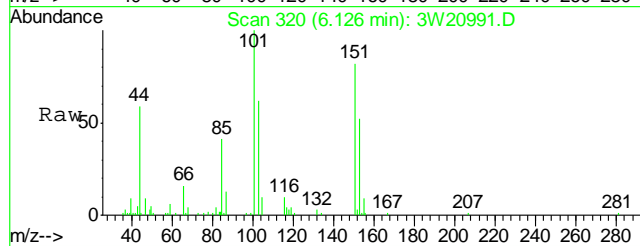
Tgt Ion:	45	Resp:	55146
Ion Ratio	Lower	Upper	
45	100		
46	38.4	18.2	58.2
42	7.8	0.0	27.7



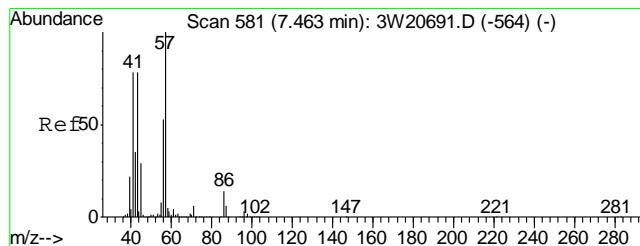
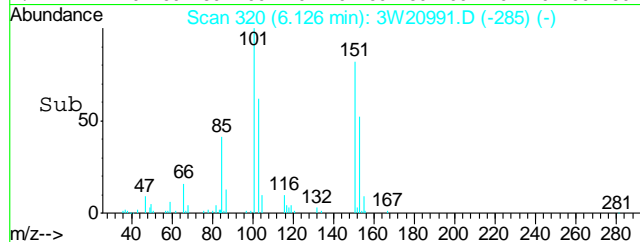
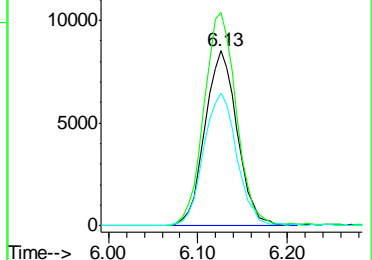


#28
FREON 113
Concen: 0.72 PPBV
RT: 6.13 min Scan# 320
Delta R.T. 0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

Tgt Ion	Ratio	Lower	Upper
151	100		
101	122.1	95.5	135.5
103	78.0	54.9	94.9

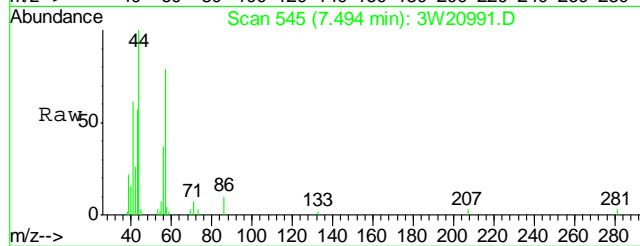


Abundance Ion 151.00 (150.70 to 151.70): 3
Ion 100.85 (100.55 to 101.55): 3
Ion 102.90 (102.60 to 103.60): 3

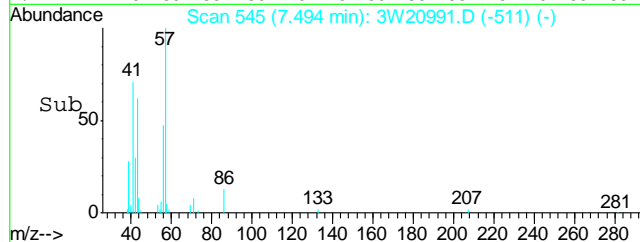
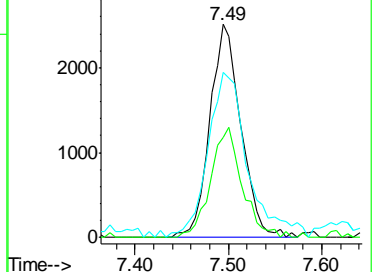


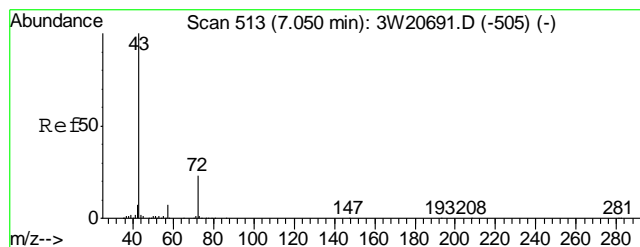
#33
HEXANE
Concen: 0.22 PPBV
RT: 7.49 min Scan# 545
Delta R.T. 0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

Tgt Ion	Ratio	Lower	Upper
57	100		
56	52.5	30.5	70.5
41	98.5	79.2	119.2



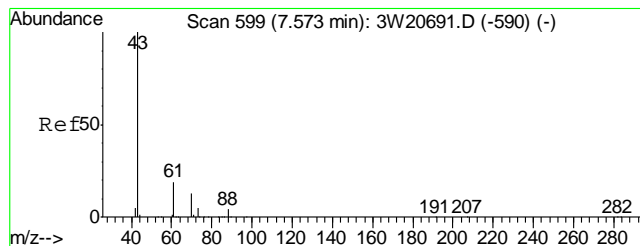
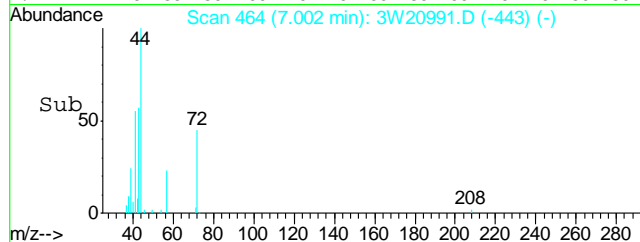
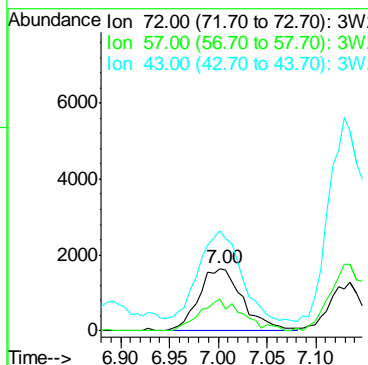
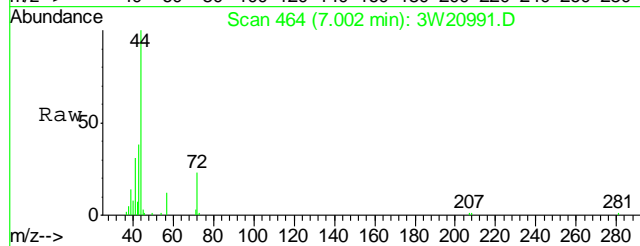
Abundance Ion 57.00 (56.70 to 57.70): 3W2
Ion 56.00 (55.70 to 56.70): 3W2
Ion 41.00 (40.70 to 41.70): 3W2





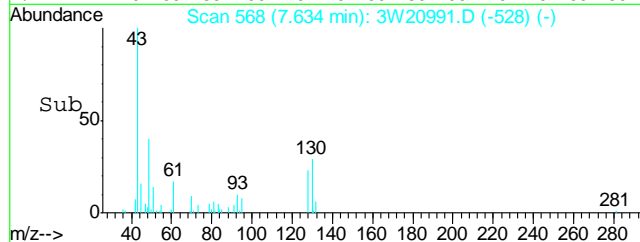
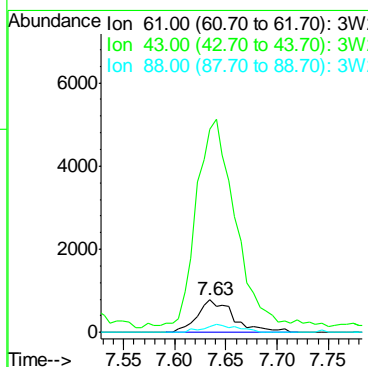
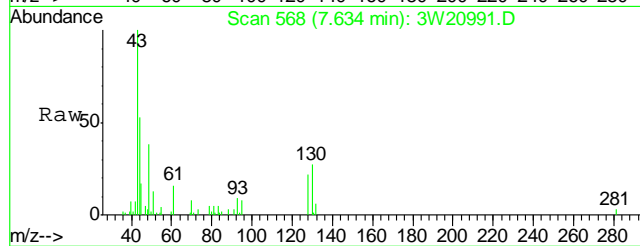
#36
METHYL ETHYL KETONE
Concen: 0.94 PPBV
RT: 7.00 min Scan# 464
Delta R.T. -0.07 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

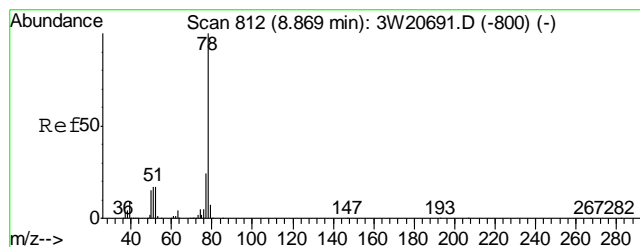
Tgt Ion	Ratio	Lower	Upper
72	100		
57	50.5	11.3	51.3
43	161.3	384.1	424.1#



#39
ETHYL ACETATE
Concen: 0.51 PPBV
RT: 7.63 min Scan# 568
Delta R.T. 0.04 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

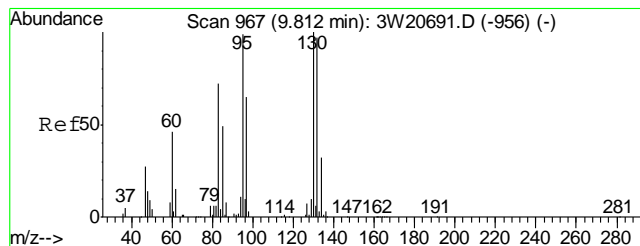
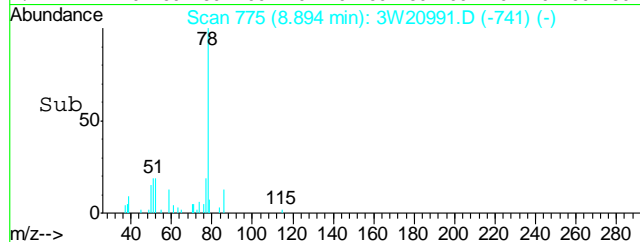
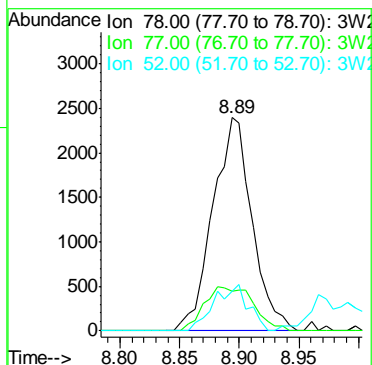
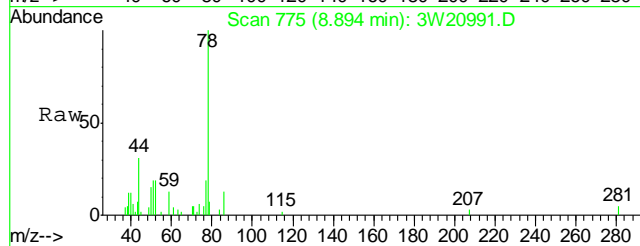
Tgt Ion	Ratio	Lower	Upper
61	100		
43	716.6	682.3	722.3
88	23.3	6.1	46.1





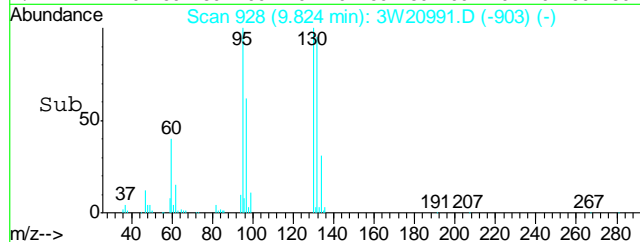
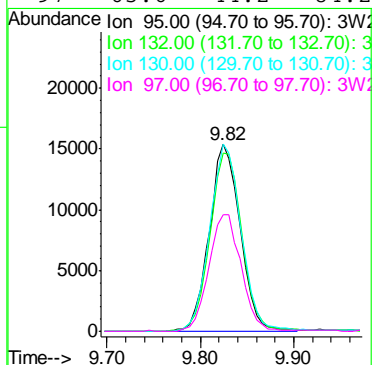
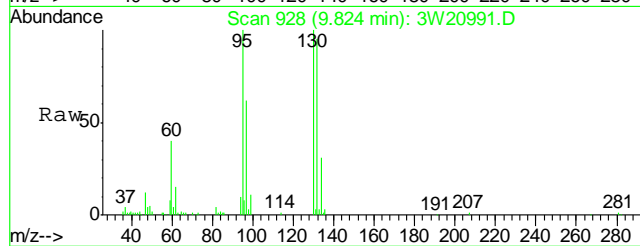
#46
BENZENE
Concen: 0.13 PPBV
RT: 8.89 min Scan# 775
Delta R.T. 0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

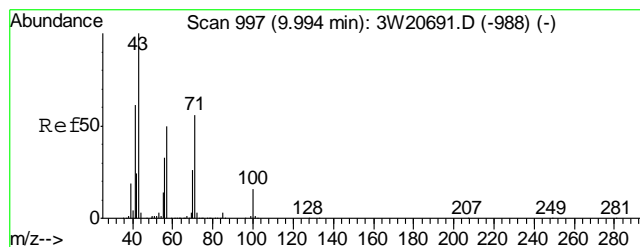
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.9	3.6	43.6
52	18.9	0.0	35.5



#49
TRICHLOROETHYLENE
Concen: 1.72 PPBV
RT: 9.82 min Scan# 928
Delta R.T. -0.00 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

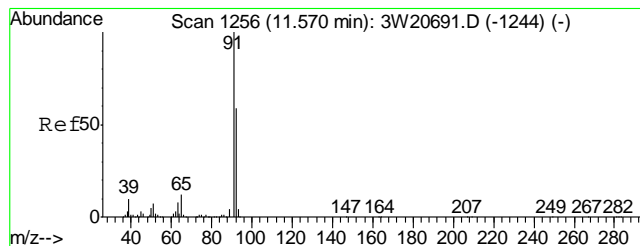
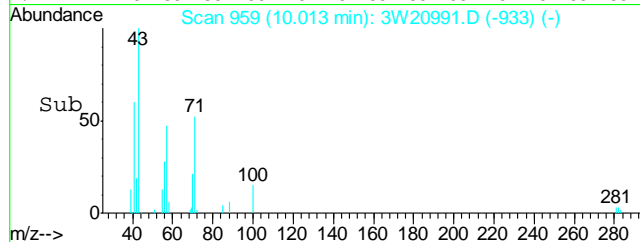
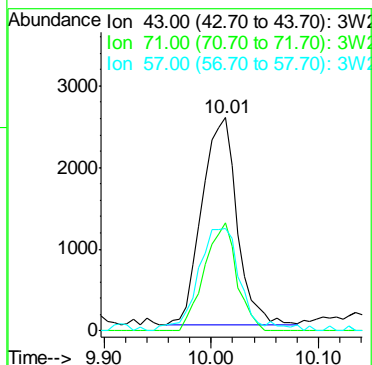
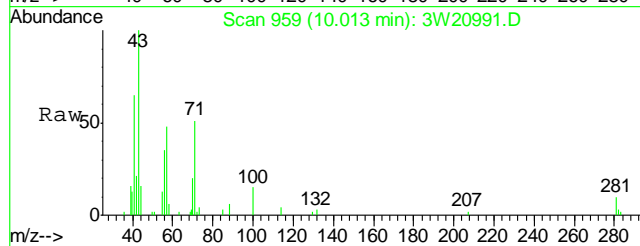
Tgt Ion	Ratio	Lower	Upper
95	100		
132	98.1	83.4	123.4
130	102.4	87.1	127.1
97	65.6	44.2	84.2





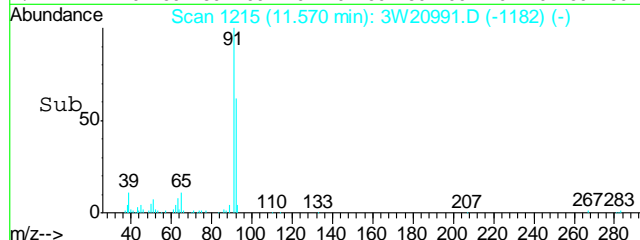
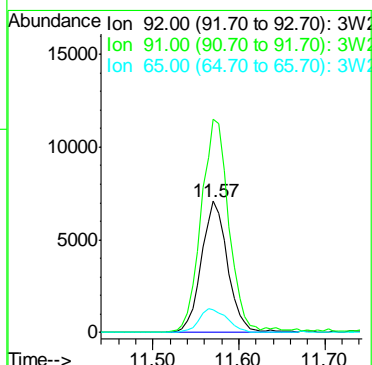
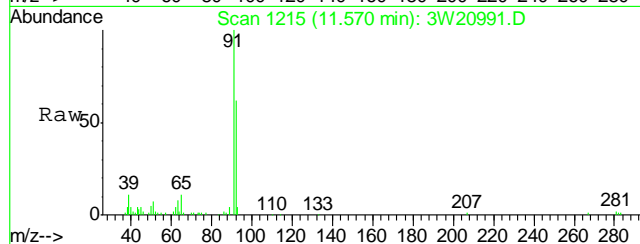
#54
HEPTANE
Concen: 0.20 PPBV
RT: 10.01 min Scan# 959
Delta R.T. 0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

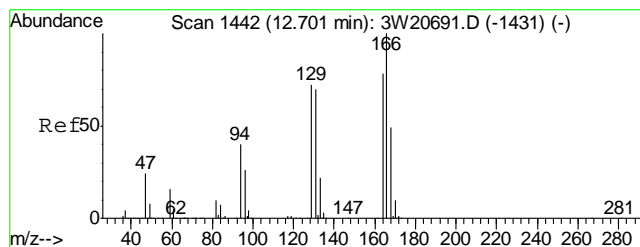
Tgt Ion: 43 Resp: 5766
Ion Ratio Lower Upper
43 100
71 47.9 36.1 76.1
57 57.3 32.3 72.3



#59
TOLUENE
Concen: 0.55 PPBV
RT: 11.57 min Scan# 1215
Delta R.T. -0.00 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

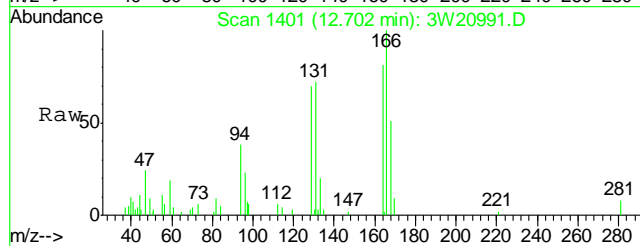
Tgt Ion: 92 Resp: 15055
Ion Ratio Lower Upper
92 100
91 169.8 148.6 188.6
65 19.4 0.0 38.0





#64
TETRACHLOROETHYLENE
Concen: 0.15 PPBV
RT: 12.70 min Scan# 1401
Delta R.T. -0.00 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

Tgt Ion	Ratio	Lower	Upper
164	100		
129	85.3	65.6	105.6
168	67.4	42.3	82.3
131	81.1	63.0	103.0



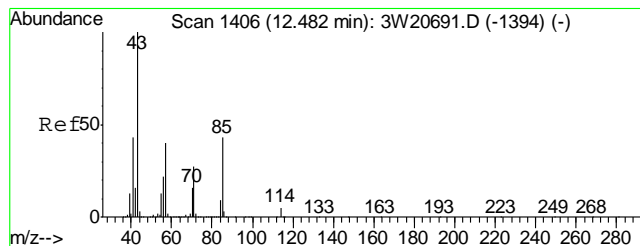
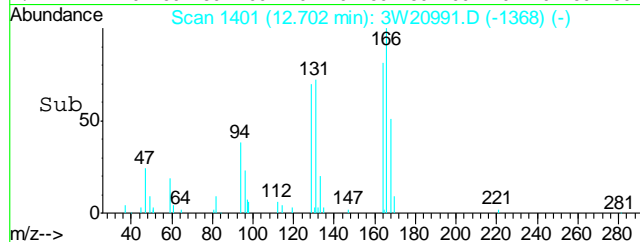
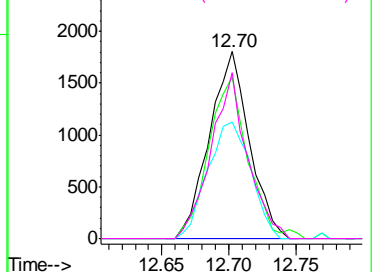
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

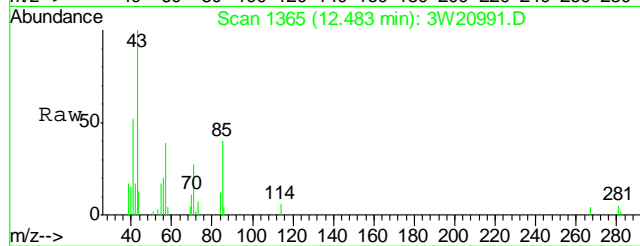
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#67
OCTANE
Concen: 0.18 PPBV
RT: 12.48 min Scan# 1365
Delta R.T. -0.00 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
85	30.5	24.9	64.9
57	31.3	19.9	59.9

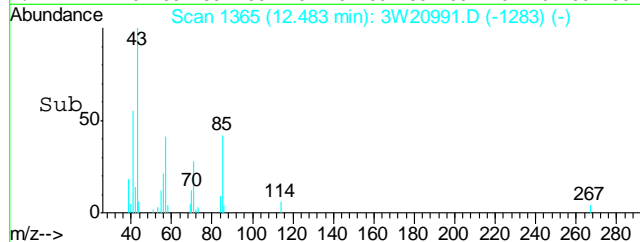
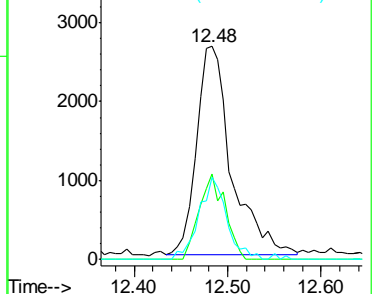


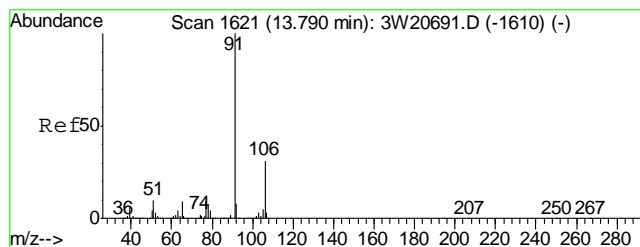
Abundance

Ion 43.00 (42.70 to 43.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

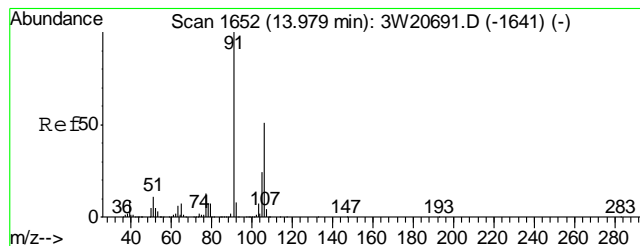
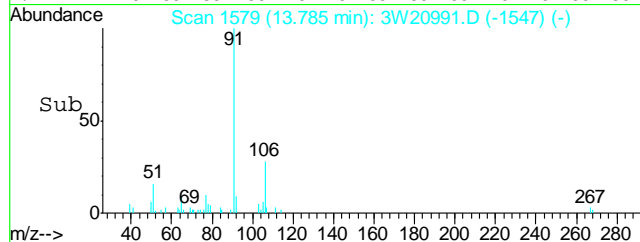
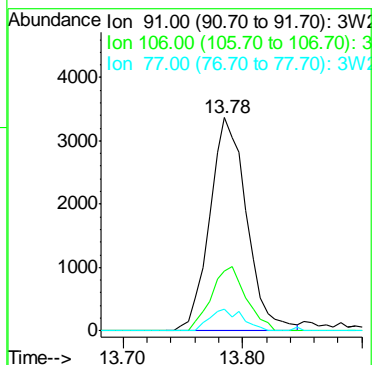
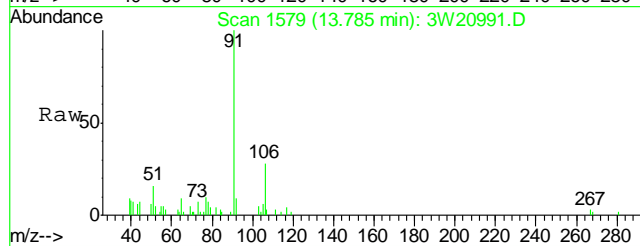
Ion 57.00 (56.70 to 57.70): 3W2





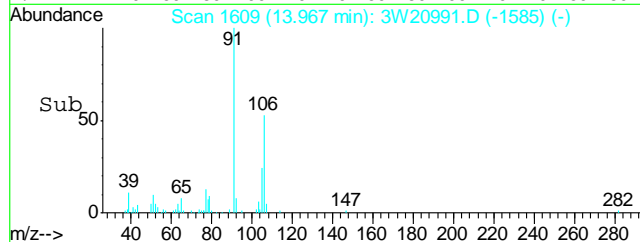
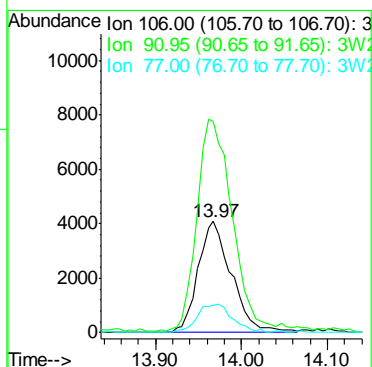
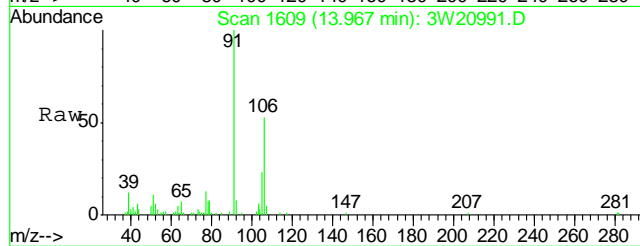
#70
ETHYLBENZENE
Concen: 0.14 PPBV
RT: 13.78 min Scan# 1579
Delta R.T. -0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

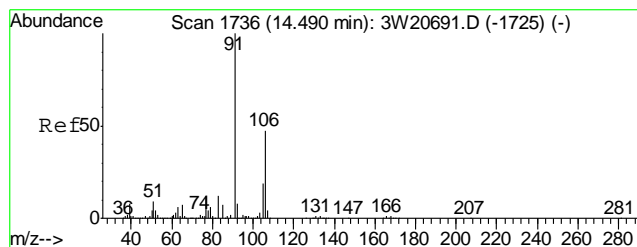
Tgt Ion:	91	Resp:	7284
Ion Ratio	Lower	Upper	
91	100		
106	28.2	11.5	51.5
77	9.0	0.0	28.4



#71
m,p-XYLENE
Concen: 0.55 PPBV
RT: 13.97 min Scan# 1609
Delta R.T. -0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

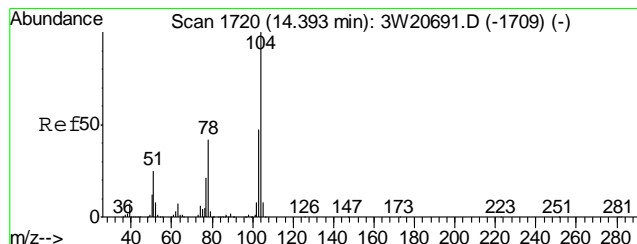
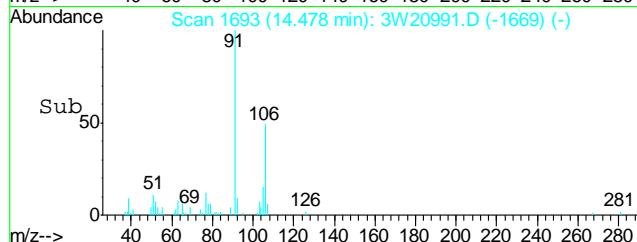
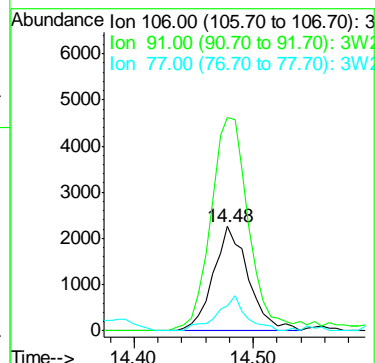
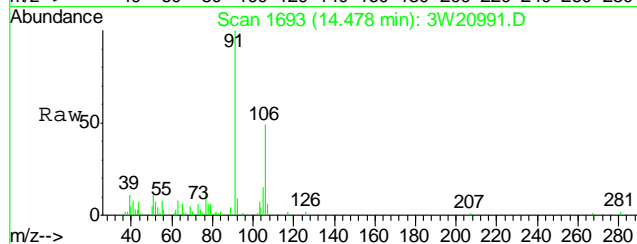
Tgt Ion:	106	Resp:	10997
Ion Ratio	Lower	Upper	
106	100		
91	190.1	176.1	216.1
77	24.4	4.4	44.4





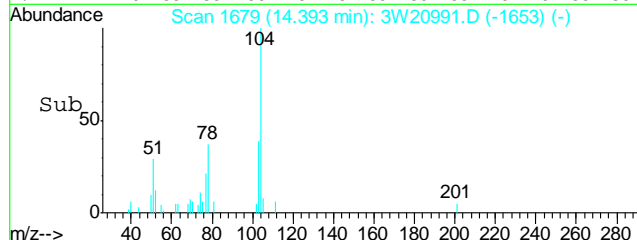
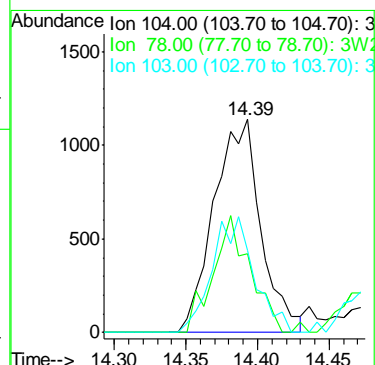
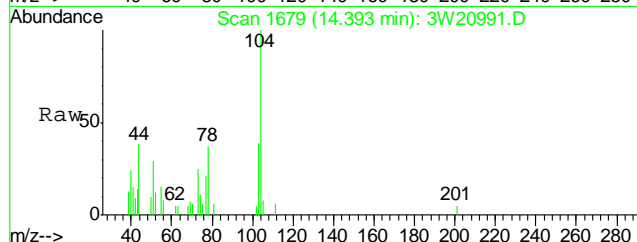
#72
o-XYLENE
Concen: 0.25 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

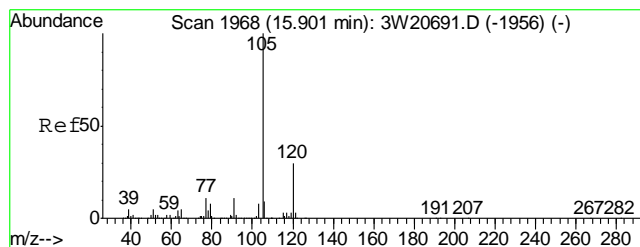
Tgt Ion	Ratio	Lower	Upper
106	100		
91	220.9	186.8	226.8
77	27.8	3.9	43.9



#73
STYRENE
Concen: 0.12 PPBV
RT: 14.39 min Scan# 1679
Delta R.T. 0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

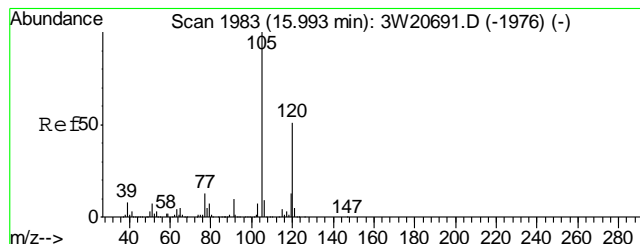
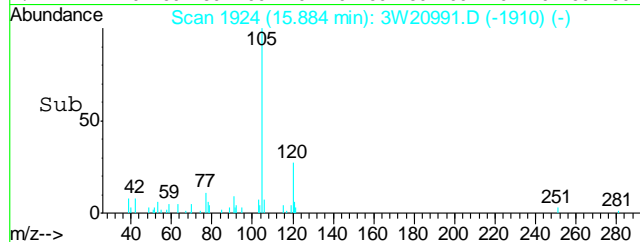
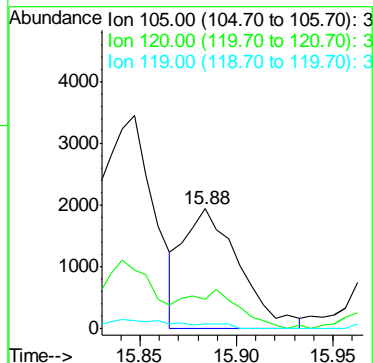
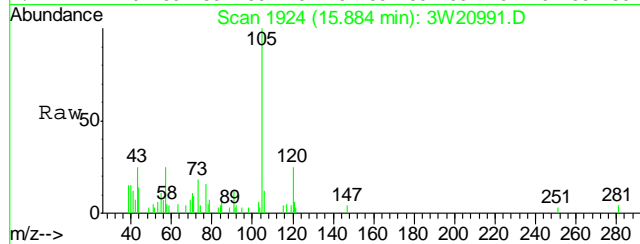
Tgt Ion	Ratio	Lower	Upper
104	100		
78	43.5	19.0	59.0
103	48.7	27.2	67.2





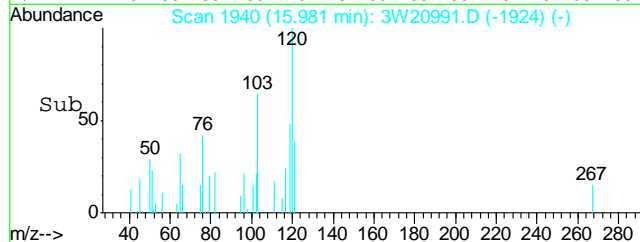
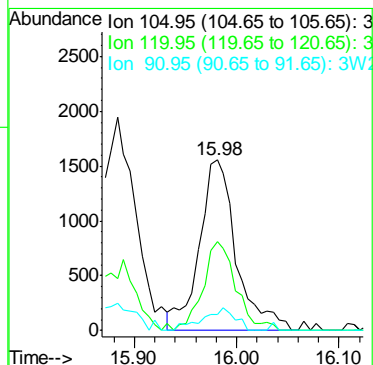
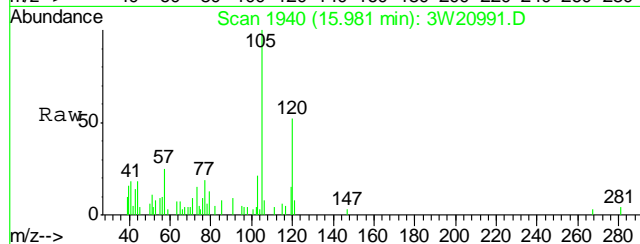
#82
4-ETHYLTOLUENE
Concen: 0.10 PPBV m
RT: 15.88 min Scan# 1924
Delta R.T. -0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

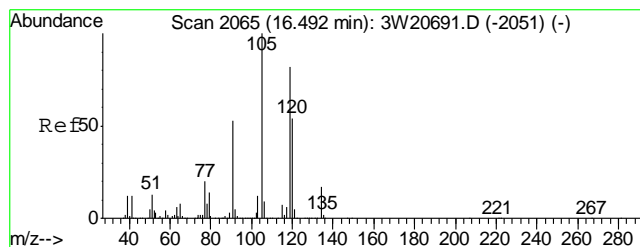
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.6	10.0	50.0
119	9.3	0.0	22.6



#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 15.98 min Scan# 1940
Delta R.T. -0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

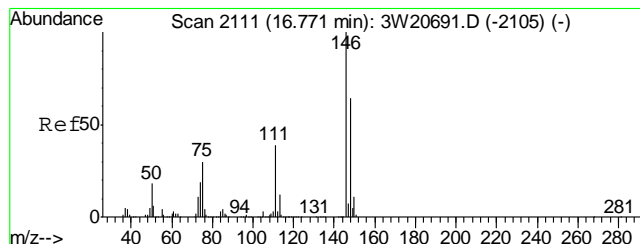
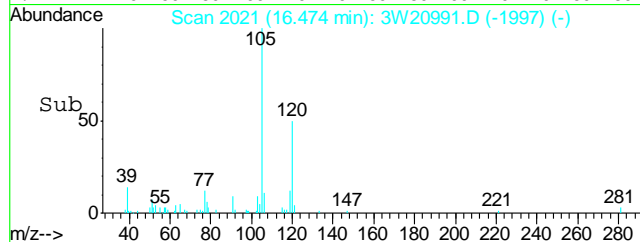
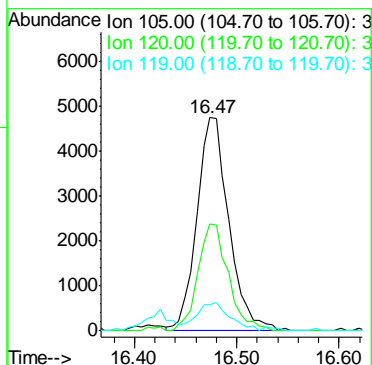
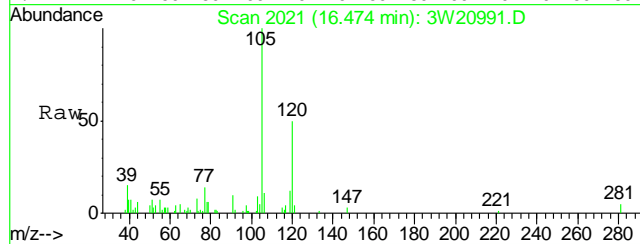
Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.2	31.4	71.4
91	11.5	0.0	29.6





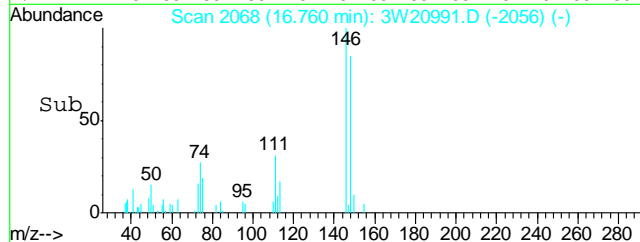
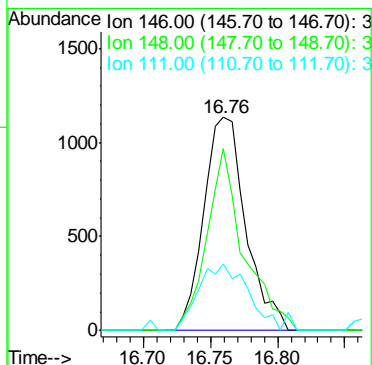
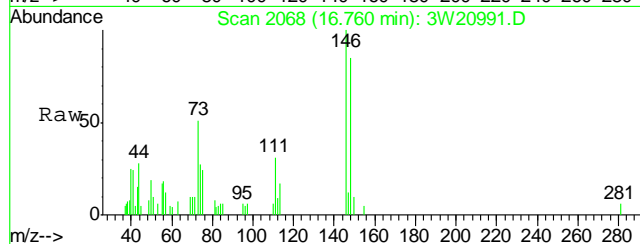
#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.37 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	39.2	79.2
119	13.8	104.5	144.5#



#88
p-DICHLOROBENZENE
Concen: 0.14 PPBV
RT: 16.76 min Scan# 2068
Delta R.T. -0.01 min
Lab File: 3W20991.D
Acq: 24 Feb 2011 10:14 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	74.6	44.2	84.2
111	36.5	14.5	54.5



Manual Integration Approval Summary

Sample Number: JA68565-9

Method: TO-15

Lab FileID: 3W20991.D

Analyst approved: 02/25/11 10:31 Yunxia Chen

Injection Time: 02/24/11 22:14

Supervisor approved: 03/10/11 05:28 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Isopropyl Alcohol	67-63-0		5.66	Missed peak
4-Ethyltoluene	622-96-8		15.88	Overlapping peak

6.1.13.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20992.D Vial: 11
 Acq On : 24 Feb 2011 10:54 pm Operator: yunxiac
 Sample : ja68565-10 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:11:08 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	149015	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	724097	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	334923	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	336468	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	195350	5.49	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	109.80%

Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.38	85	5356	0.12	PPBV	95
6) PROPYLENE	4.33	41	28394	1.71	PPBV	88
11) n-BUTANE	4.72	43	30278	1.05	PPBV #	93
17) ISOPROPYL ALCOHOL	5.58	45	75122	3.09	PPBV	80
18) ACETONE	5.35	58	463637	78.77	PPBV	91
23) CARBON DISULFIDE	6.17	76	86067	1.64	PPBV	90
24) ETHANOL	5.10	45	150466	24.79	PPBV	99
30) TERTIARY BUTYL ALCOHOL	6.02	59	7370	0.27	PPBV	83
31) METHYL TERTIARY BUTYL ETHE	6.78	73	8500	0.23	PPBV #	66
33) HEXANE	7.48	57	7091	0.27	PPBV	94
36) METHYL ETHYL KETONE	7.08	72	11274	2.05	PPBV #	83
39) ETHYL ACETATE	7.59	61	3062	0.79	PPBV	96
46) BENZENE	8.88	78	6750	0.16	PPBV	96
49) TRICHLOROETHYLENE	9.81	95	4669	0.22	PPBV	95
52) 2,2,4-TRIMETHYLPENTANE	9.73	57	7702	0.10	PPBV #	22
54) HEPTANE	9.99	43	7610	0.25	PPBV #	80
57) METHYL ISOBUTYL KETONE	10.72	58	1456	0.15	PPBV	94
59) TOLUENE	11.56	92	19104	0.69	PPBV	99
63) 2-HEXANONE	11.90	58	2012	0.17	PPBV #	1
64) TETRACHLOROETHYLENE	12.70	164	1544	0.06	PPBV	92
67) OCTANE	12.48	43	7914	0.21	PPBV	95
70) ETHYLBENZENE	13.78	91	12244	0.23	PPBV	96
71) m,p-XYLENE	13.96	106	19379	0.98	PPBV	94
72) o-XYLENE	14.47	106	9610	0.52	PPBV	95
73) STYRENE	14.38	104	4803	0.22	PPBV	97
74) NONANE	14.65	43	7054	0.23	PPBV	98
82) 4-ETHYLTOLUENE	15.88	105	6368	0.17	PPBV	96
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	7622	0.23	PPBV	98
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	23696	0.85	PPBV #	27
88) p-DICHLOROBENZENE	16.76	146	6368	0.37	PPBV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20992.D M3W821.M Fri Feb 25 10:20:45 2011 MS3W

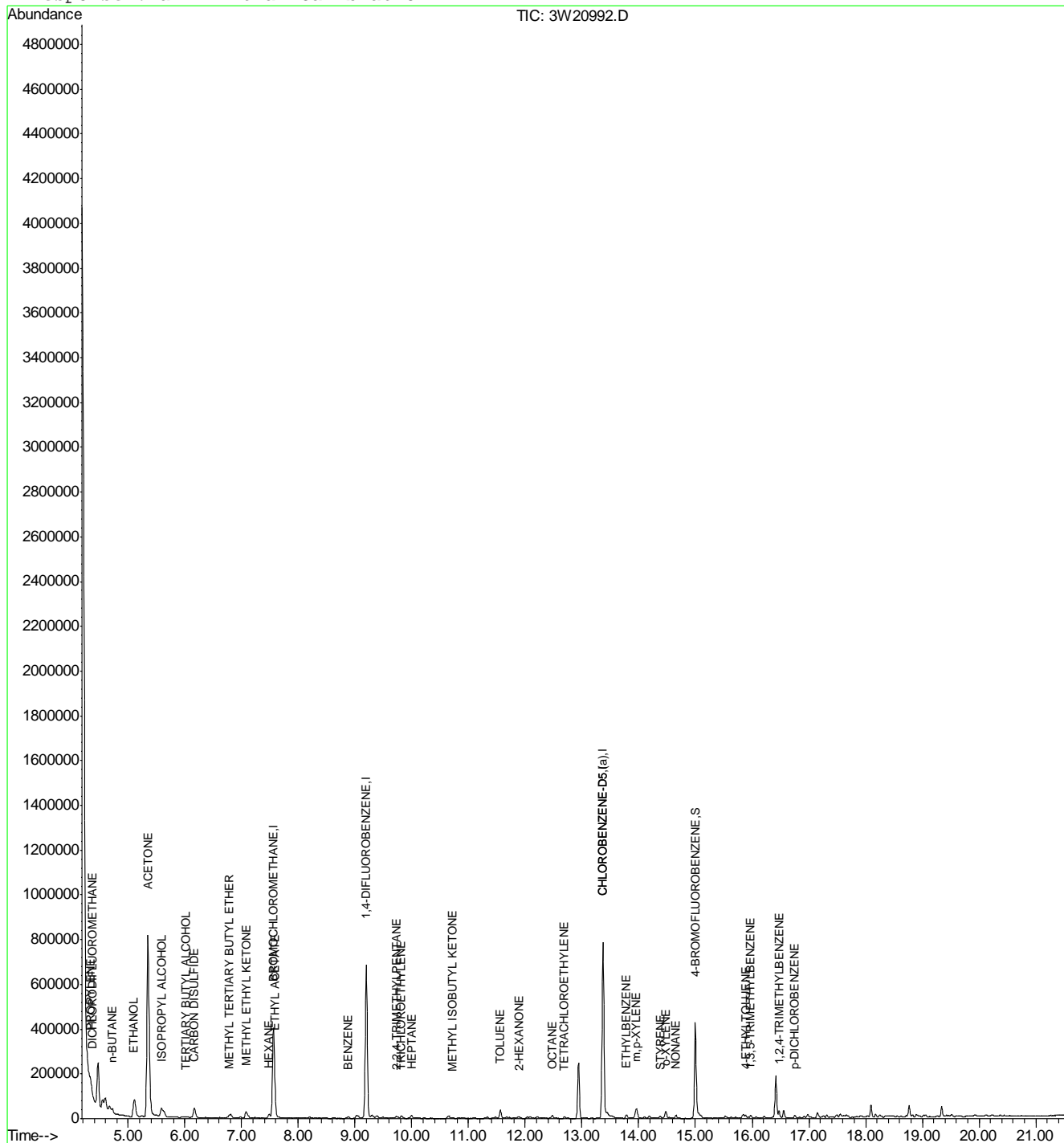
Quantitation Report (QT Reviewed)

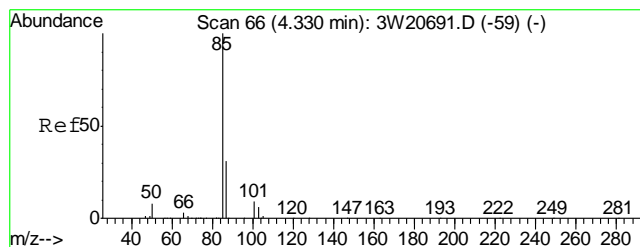
Data File : C:\MSDCHEM\1\DATA\3W20992.D
Acq On : 24 Feb 2011 10:54 pm
Sample : ja68565-10
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:28 2011

Vial: 11
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

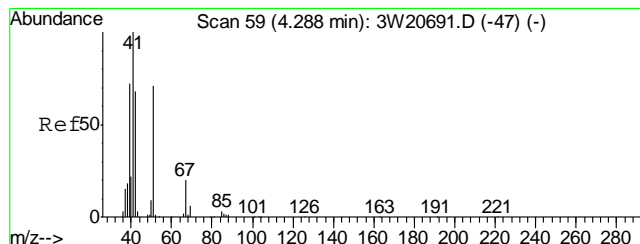
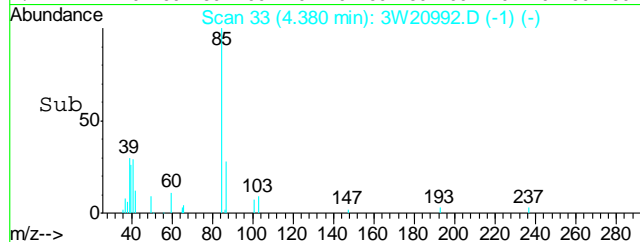
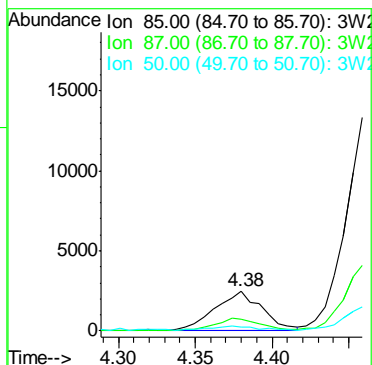
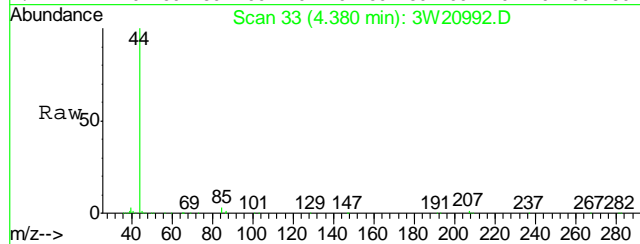
Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration





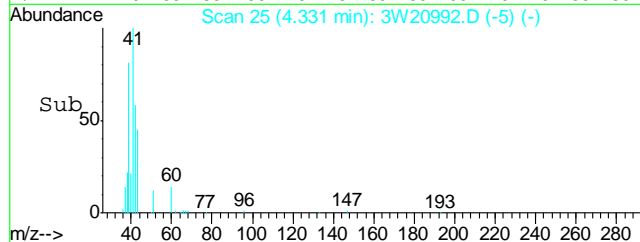
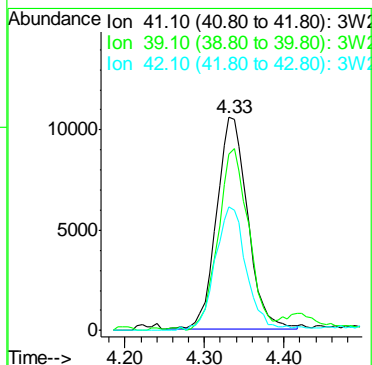
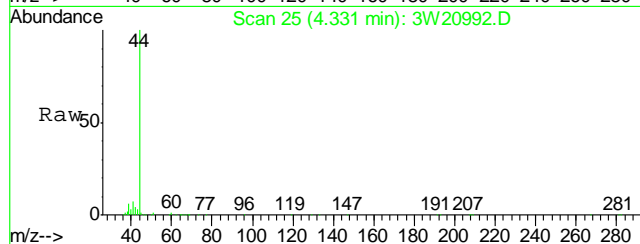
#5
DICHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 4.38 min Scan# 33
Delta R.T. 0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

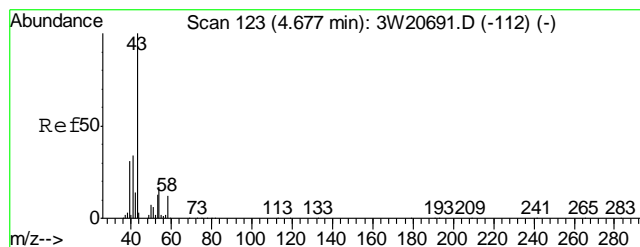
Tgt Ion:	85	Resp:	5356
Ion Ratio	Lower	Upper	
85	100		
87	30.5	12.9	52.9
50	13.8	0.0	30.6



#6
PROPYLENE
Concen: 1.71 PPBV
RT: 4.33 min Scan# 25
Delta R.T. 0.00 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

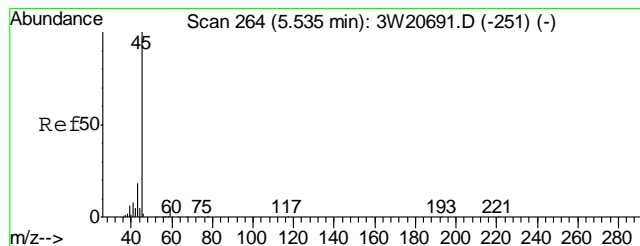
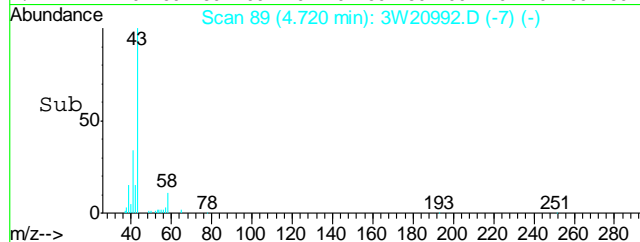
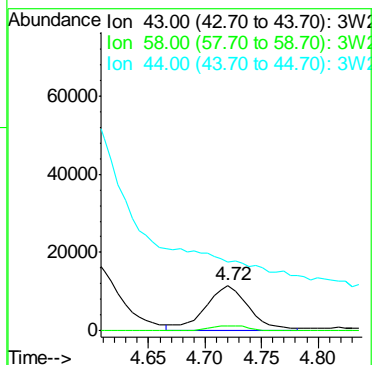
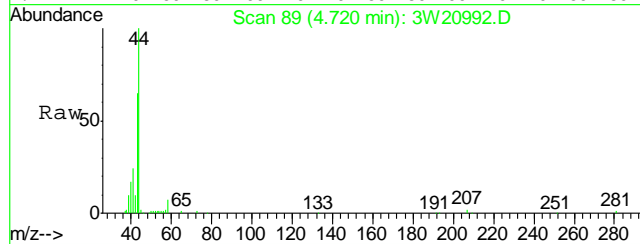
Tgt Ion:	41	Resp:	28394
Ion Ratio	Lower	Upper	
41	100		
39	84.6	50.7	90.7
42	59.8	46.0	86.0





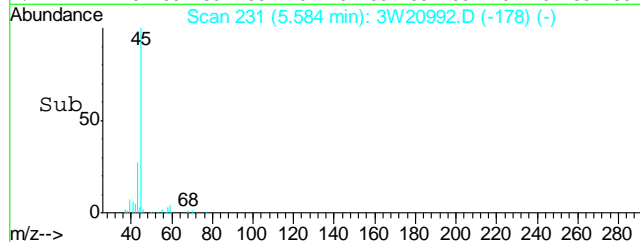
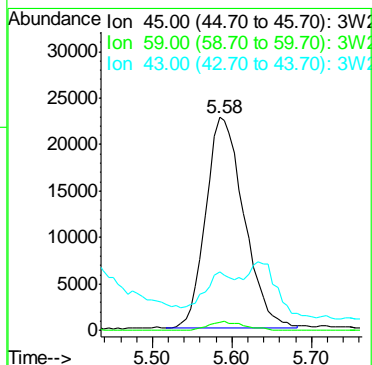
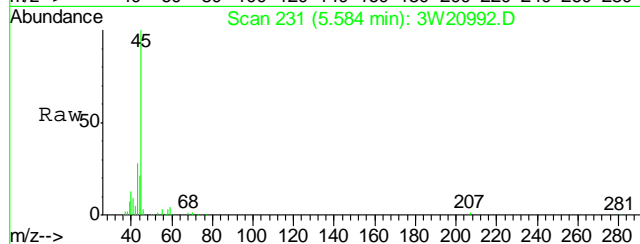
#11
n-BUTANE
Concen: 1.05 PPBV
RT: 4.72 min Scan# 89
Delta R.T. 0.00 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

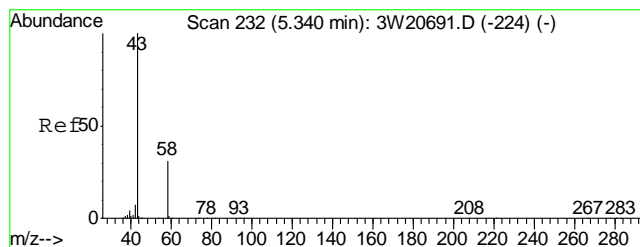
Tgt Ion:	43	Resp:	30278
Ion Ratio	Lower	Upper	
43	100		
58	9.9	0.0	32.1
44	0.0	0.0	23.9



#17
ISOPROPYL ALCOHOL
Concen: 3.09 PPBV
RT: 5.58 min Scan# 231
Delta R.T. 0.02 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

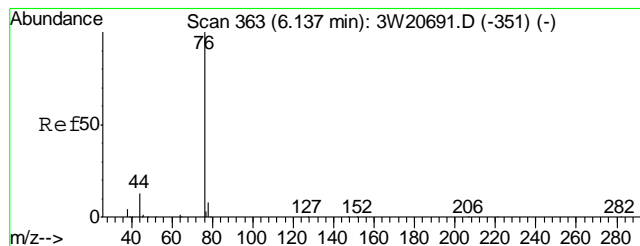
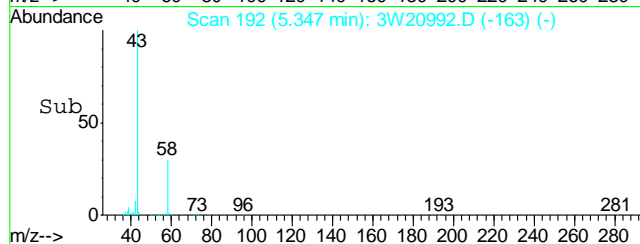
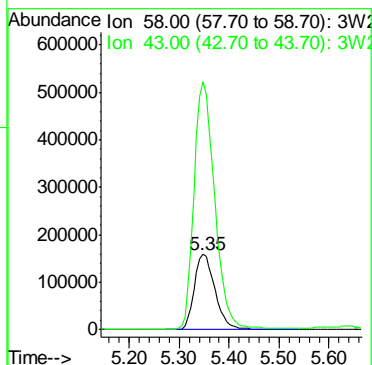
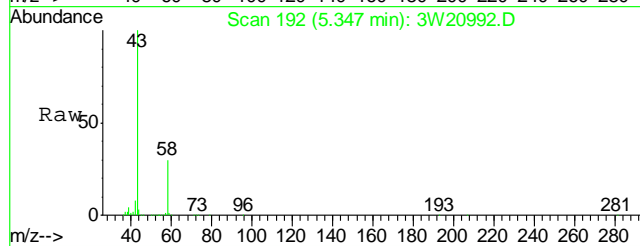
Tgt Ion:	45	Resp:	75122
Ion Ratio	Lower	Upper	
45	100		
59	4.0	0.0	23.7
43	27.7	0.0	37.4





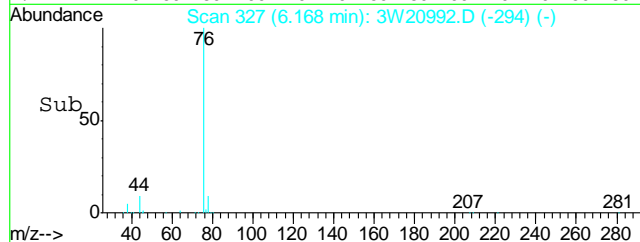
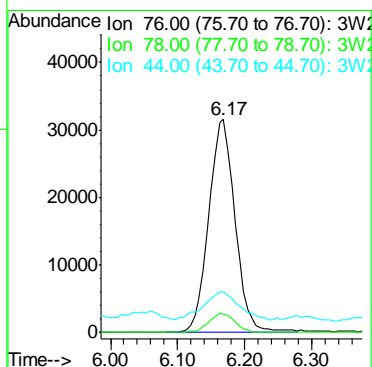
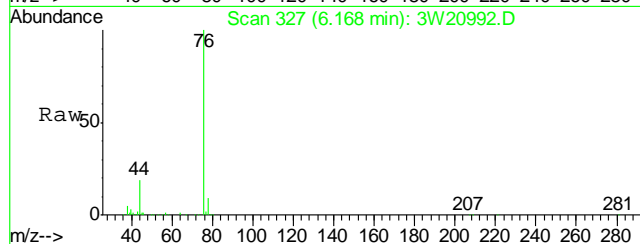
#18
 ACETONE
 Concen: 78.77 PPBV
 RT: 5.35 min Scan# 192
 Delta R.T. -0.02 min
 Lab File: 3W20992.D
 Acq: 24 Feb 2011 10:54 pm

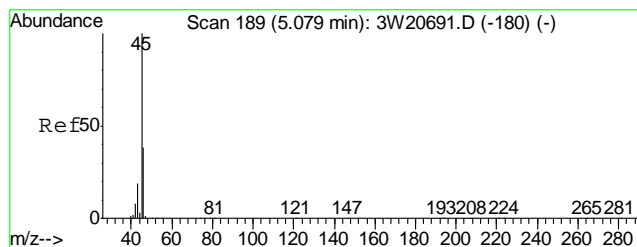
Tgt Ion: 58 Resp: 463637
 Ion Ratio Lower Upper
 58 100
 43 327.2 289.1 329.1



#23
 CARBON DISULFIDE
 Concen: 1.64 PPBV
 RT: 6.17 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: 3W20992.D
 Acq: 24 Feb 2011 10:54 pm

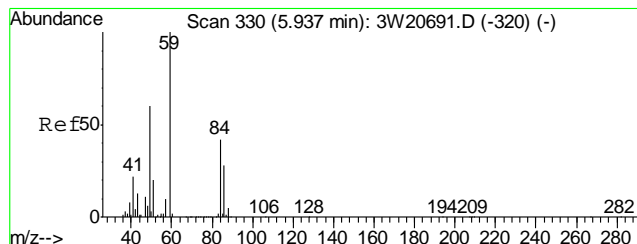
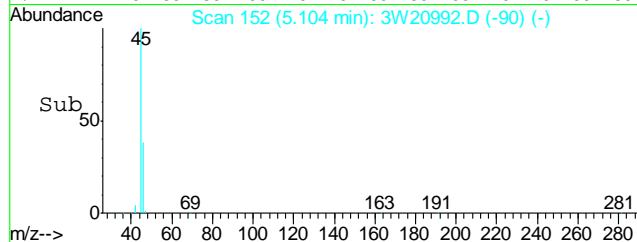
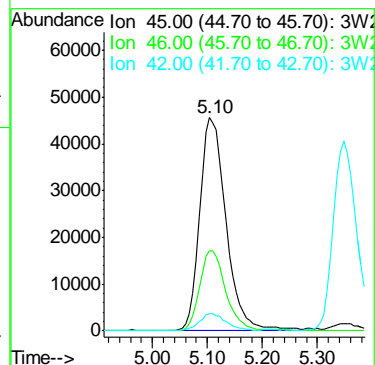
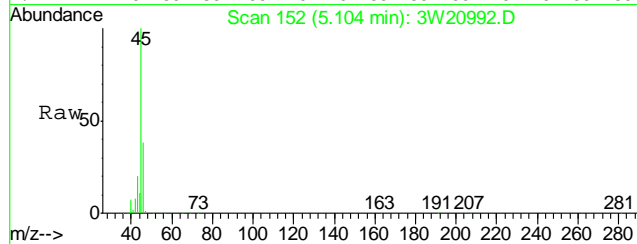
Tgt Ion: 76 Resp: 86067
 Ion Ratio Lower Upper
 76 100
 78 9.4 0.0 30.5
 44 18.1 0.0 31.7





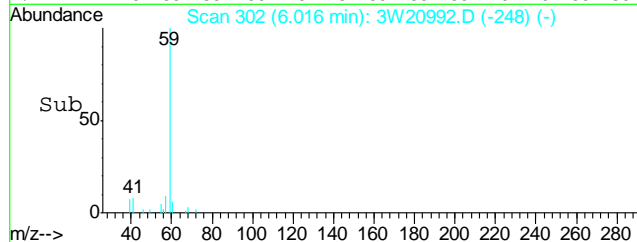
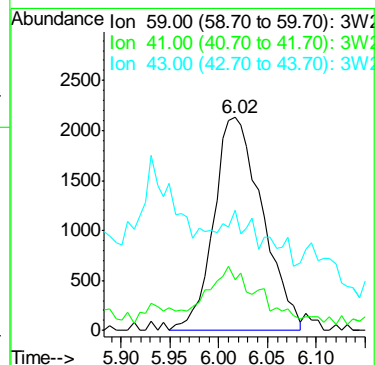
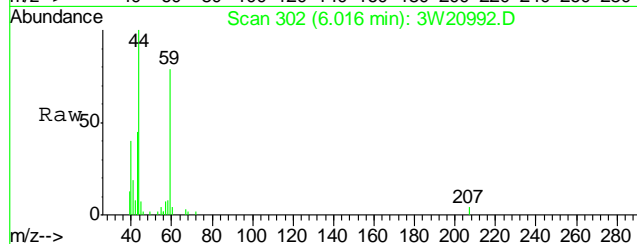
#24
 ETHANOL
 Concen: 24.79 PPBV
 RT: 5.10 min Scan# 152
 Delta R.T. -0.01 min
 Lab File: 3W20992.D
 Acq: 24 Feb 2011 10:54 pm

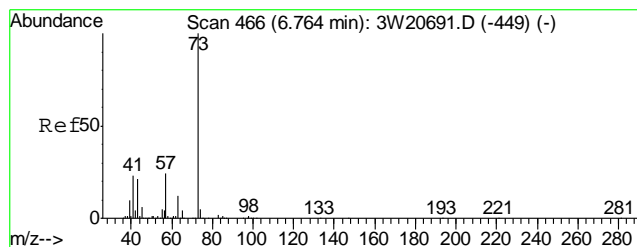
Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.7	18.2	58.2
42	7.8	0.0	27.7



#30
 TERTIARY BUTYL ALCOHOL
 Concen: 0.27 PPBV
 RT: 6.02 min Scan# 302
 Delta R.T. 0.03 min
 Lab File: 3W20992.D
 Acq: 24 Feb 2011 10:54 pm

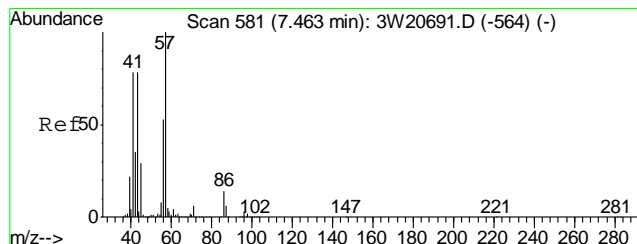
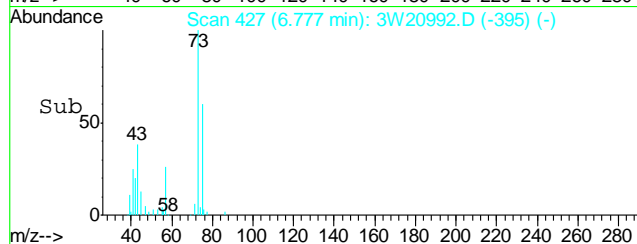
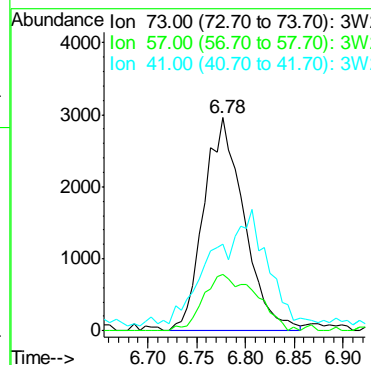
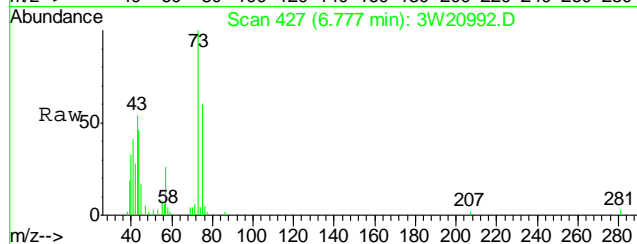
Tgt Ion	Ratio	Lower	Upper
59	100		
41	23.0	0.0	38.0
43	23.1	0.0	33.0





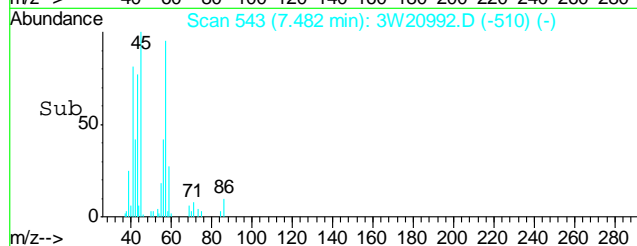
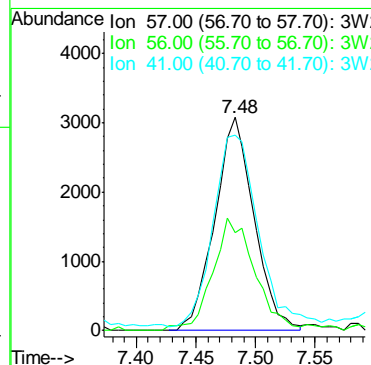
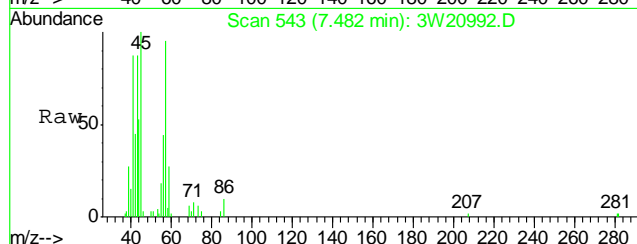
#31
METHYL TERTIARY BUTYL ETHER
Concen: 0.23 PPBV
RT: 6.78 min Scan# 427
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

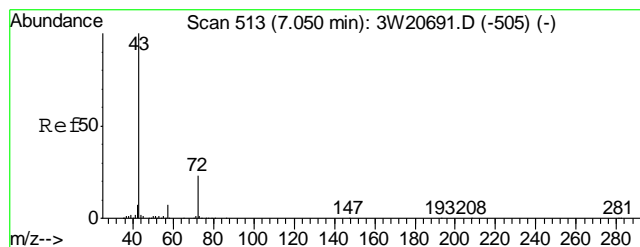
Tgt Ion: 73	Resp: 8500
Ion Ratio	Lower Upper
73	100
57	34.6 3.0 43.0
41	0.0 1.6 41.6#



#33
HEXANE
Concen: 0.27 PPBV
RT: 7.48 min Scan# 543
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

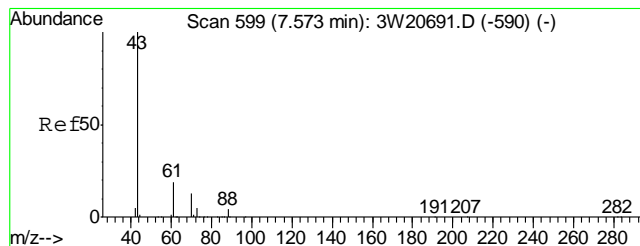
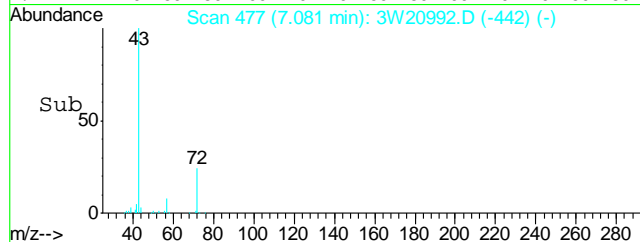
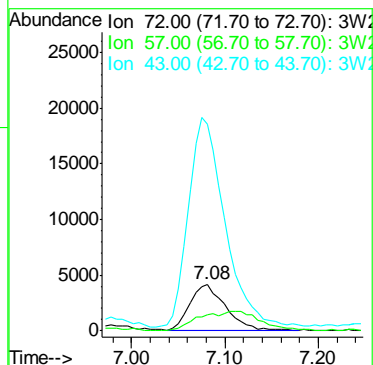
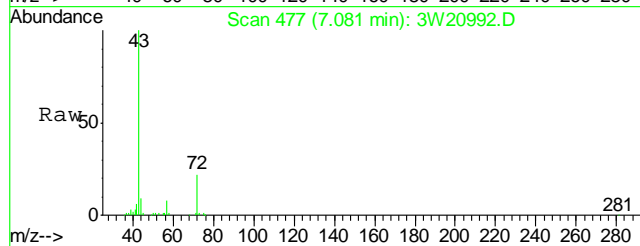
Tgt Ion: 57	Resp: 7091
Ion Ratio	Lower Upper
57	100
56	56.4 30.5 70.5
41	103.4 79.2 119.2





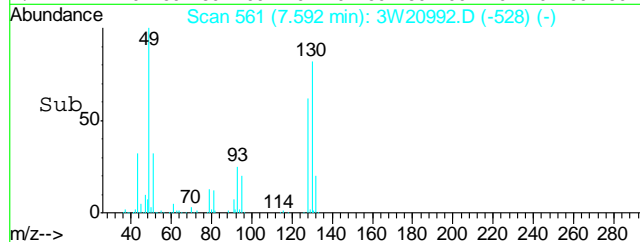
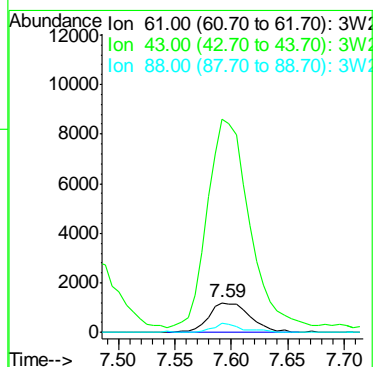
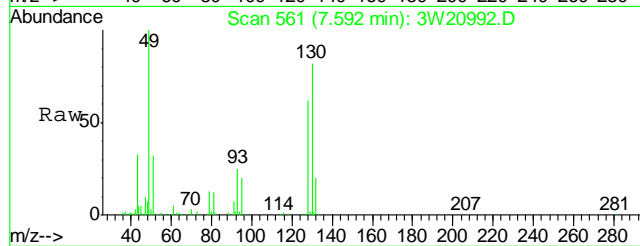
#36
METHYL ETHYL KETONE
Concen: 2.05 PPBV
RT: 7.08 min Scan# 477
Delta R.T. 0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

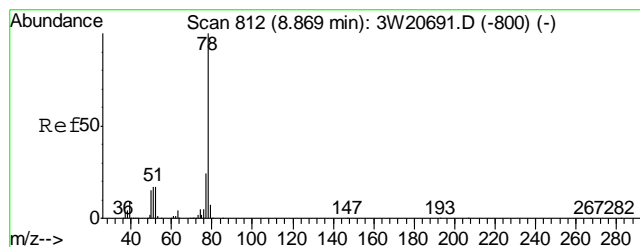
Tgt Ion	Ratio	Lower	Upper
72	100		
57	34.8	11.3	51.3
43	446.4	384.1	424.1



#39
ETHYL ACETATE
Concen: 0.79 PPBV
RT: 7.59 min Scan# 561
Delta R.T. 0.00 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

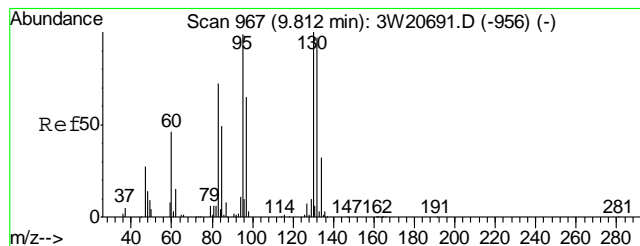
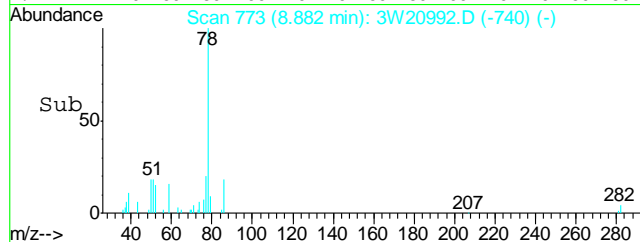
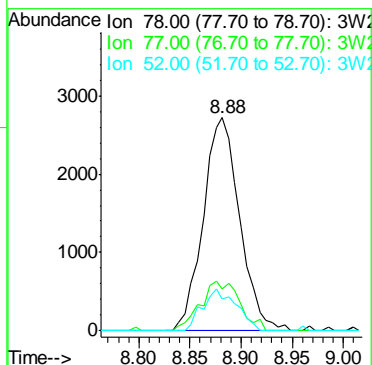
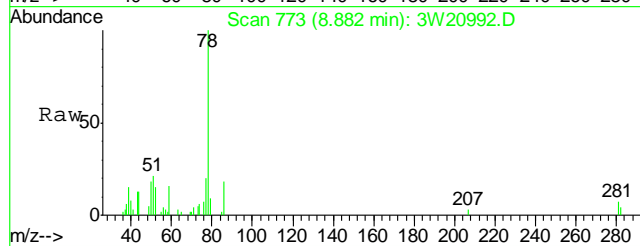
Tgt Ion	Ratio	Lower	Upper
61	100		
43	714.6	682.3	722.3
88	22.3	6.1	46.1





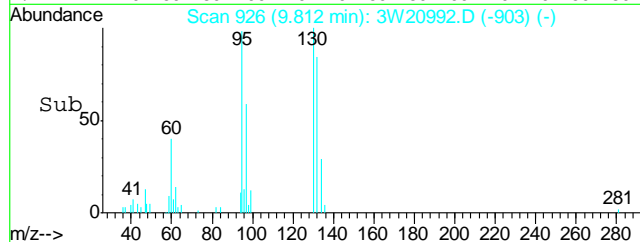
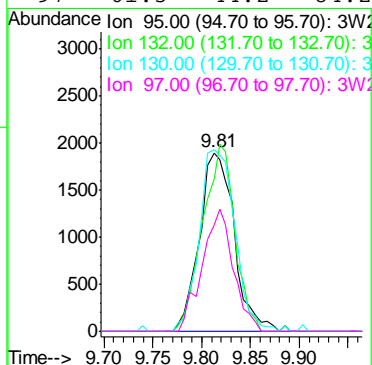
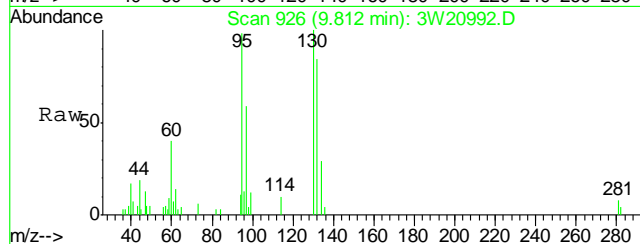
#46
 BENZENE
 Concen: 0.16 PPBV
 RT: 8.88 min Scan# 773
 Delta R.T. -0.01 min
 Lab File: 3W20992.D
 Acq: 24 Feb 2011 10:54 pm

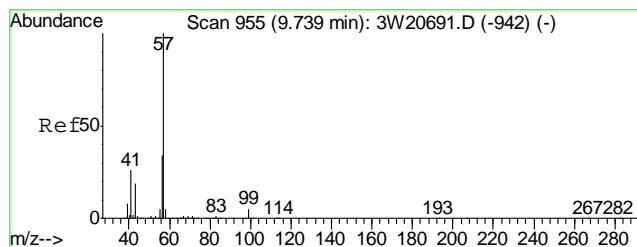
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.6	43.6
52	18.1	0.0	35.5



#49
 TRICHLOROETHYLENE
 Concen: 0.22 PPBV
 RT: 9.81 min Scan# 926
 Delta R.T. -0.01 min
 Lab File: 3W20992.D
 Acq: 24 Feb 2011 10:54 pm

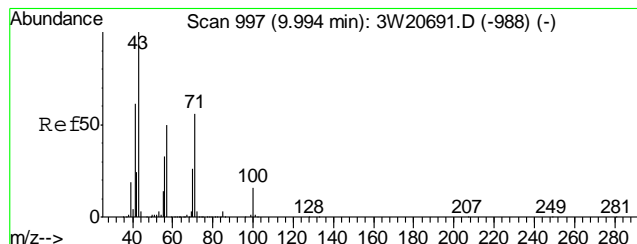
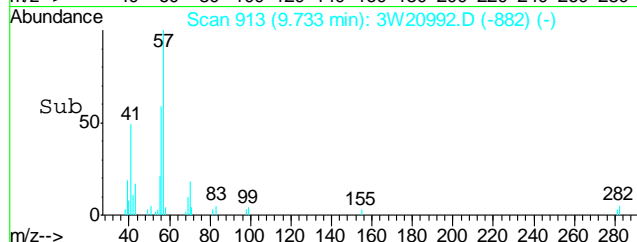
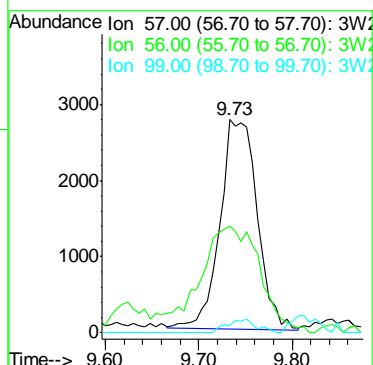
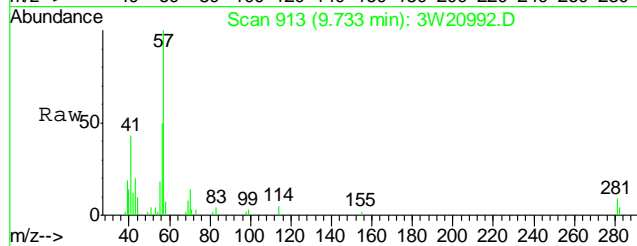
Tgt Ion	Ratio	Lower	Upper
95	100		
132	96.8	83.4	123.4
130	103.6	87.1	127.1
97	61.5	44.2	84.2





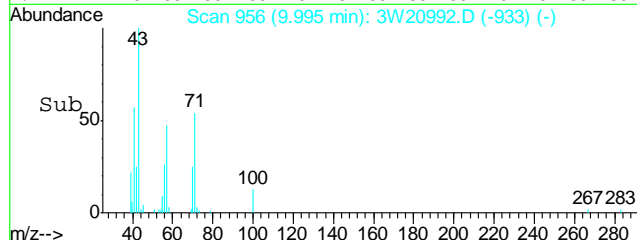
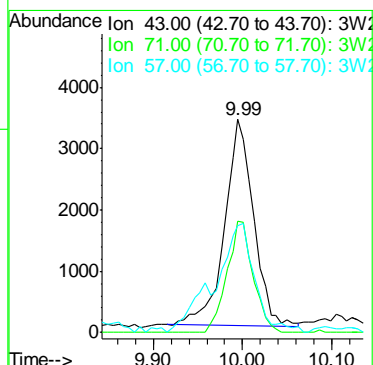
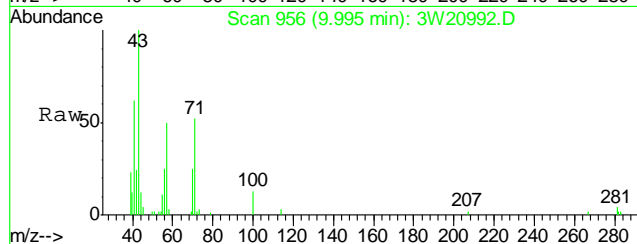
#52
2,2,4-TRIMETHYLPENTANE
Concen: 0.10 PPBV
RT: 9.73 min Scan# 913
Delta R.T. -0.02 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

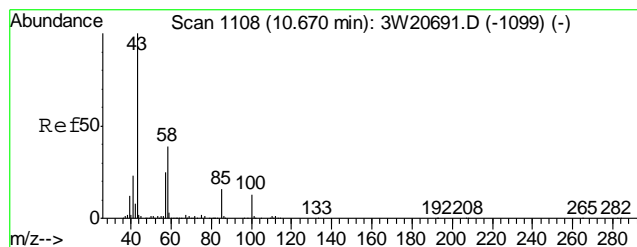
Tgt Ion	Ratio	Lower	Upper
57	100		
56	84.0	13.2	53.2#
99	5.1	0.0	25.2



#54
HEPTANE
Concen: 0.25 PPBV
RT: 9.99 min Scan# 956
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

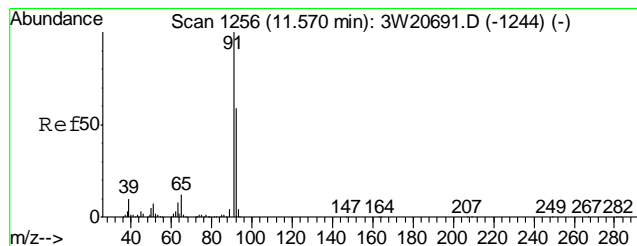
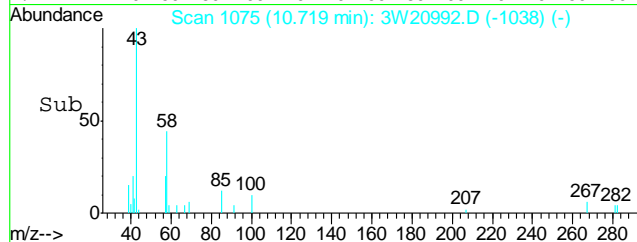
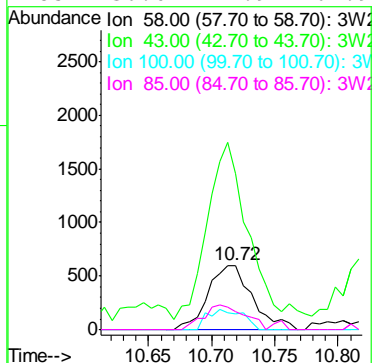
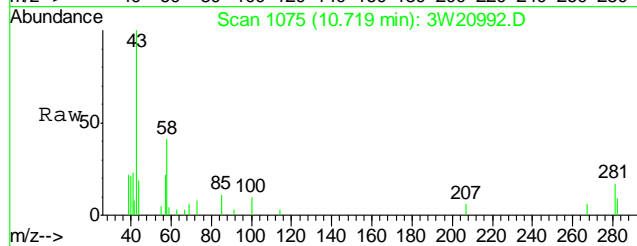
Tgt Ion	Ratio	Lower	Upper
43	100		
71	48.3	36.1	76.1
57	73.3	32.3	72.3#





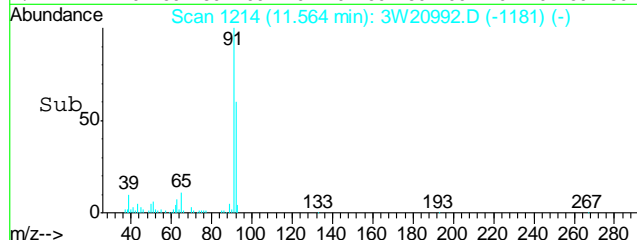
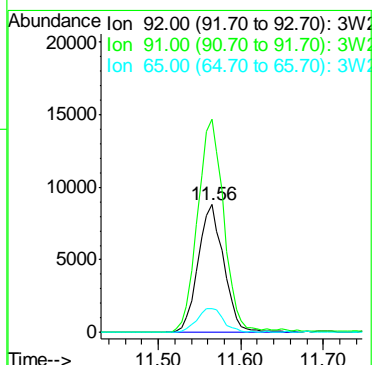
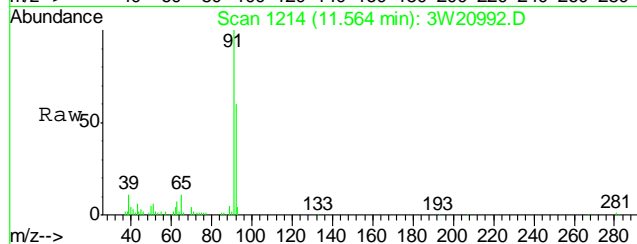
#57
METHYL ISOBUTYL KETONE
Concen: 0.15 PPBV
RT: 10.72 min Scan# 1075
Delta R.T. 0.05 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

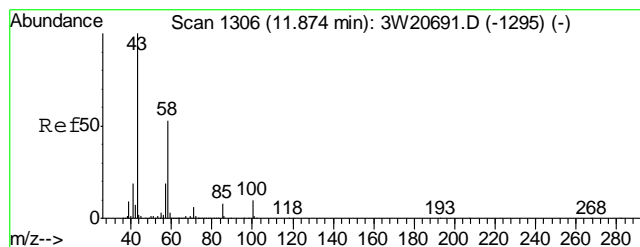
Tgt Ion:	58	Resp:	1456
Ion Ratio	Lower	Upper	
58	100		
43	254.1	229.3	269.3
100	24.8	14.1	54.1
85	36.0	24.9	64.9



#59
TOLUENE
Concen: 0.69 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

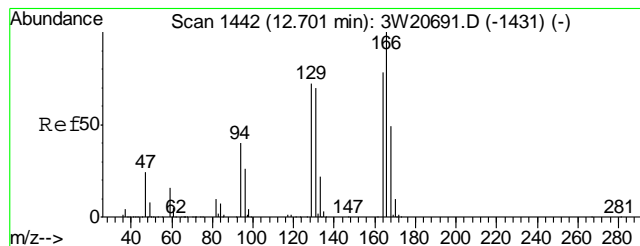
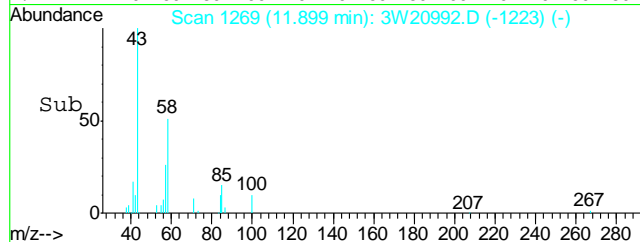
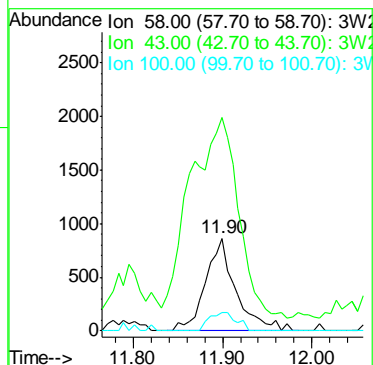
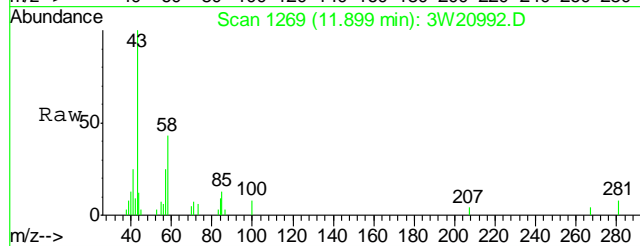
Tgt Ion:	92	Resp:	19104
Ion Ratio	Lower	Upper	
92	100		
91	169.2	148.6	188.6
65	19.4	0.0	38.0





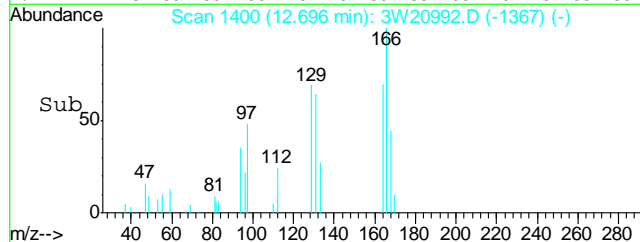
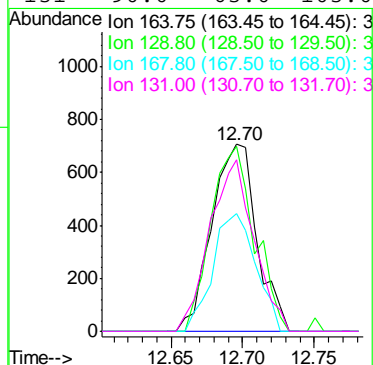
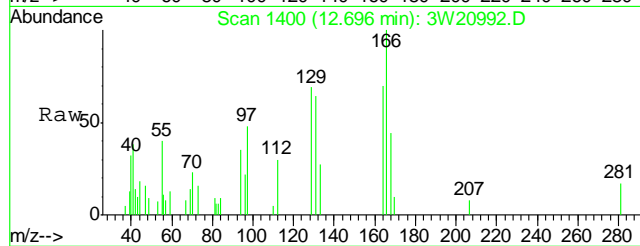
#63
2-HEXANONE
Concen: 0.17 PPBV
RT: 11.90 min Scan# 1269
Delta R.T. 0.04 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

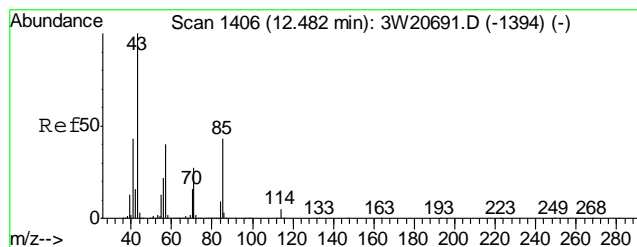
Tgt Ion	Ratio	Lower	Upper
58	100		
43	349.3	166.4	206.4#
100	17.4	0.0	39.6



#64
TETRACHLOROETHYLENE
Concen: 0.06 PPBV
RT: 12.70 min Scan# 1400
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

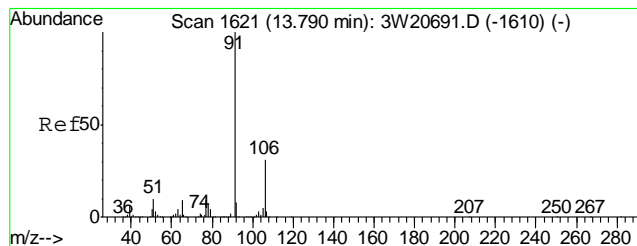
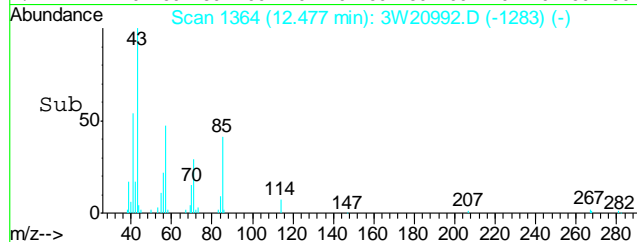
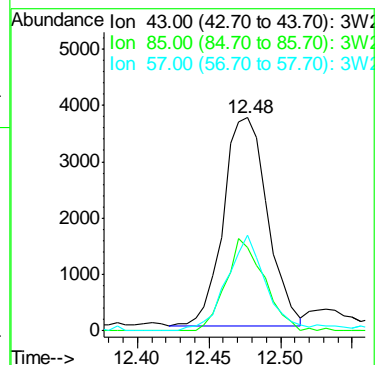
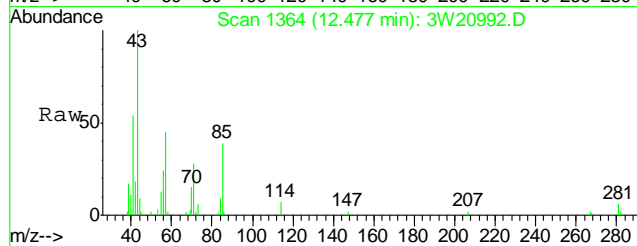
Tgt Ion	Ratio	Lower	Upper
164	100		
129	96.5	65.6	105.6
168	60.2	42.3	82.3
131	90.0	63.0	103.0





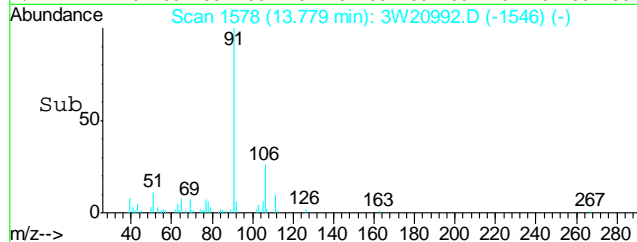
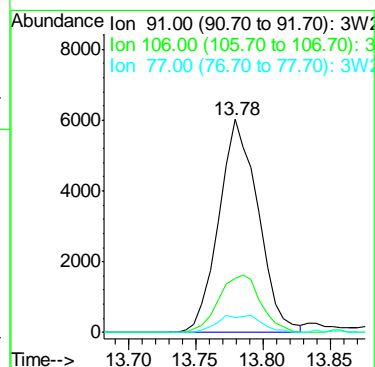
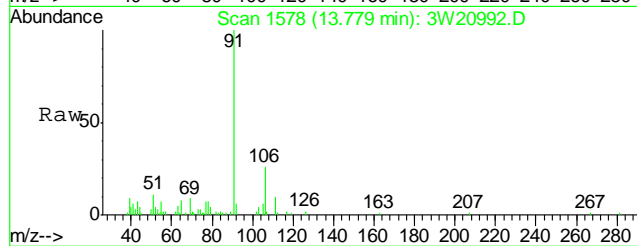
#67
OCTANE
Concen: 0.21 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

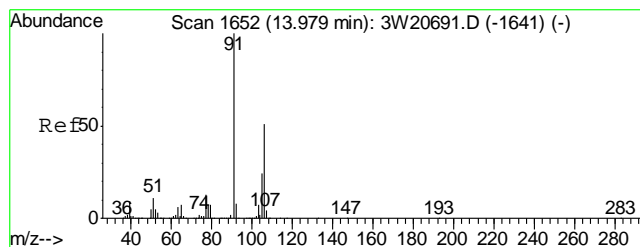
Tgt Ion	Ratio	Lower	Upper
43	100		
85	39.0	24.9	64.9
57	40.4	19.9	59.9



#70
ETHYLBENZENE
Concen: 0.23 PPBV
RT: 13.78 min Scan# 1578
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

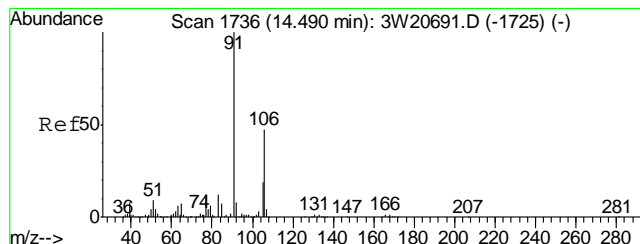
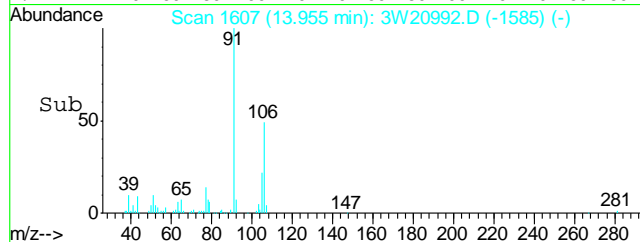
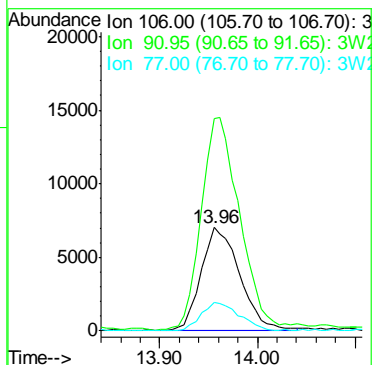
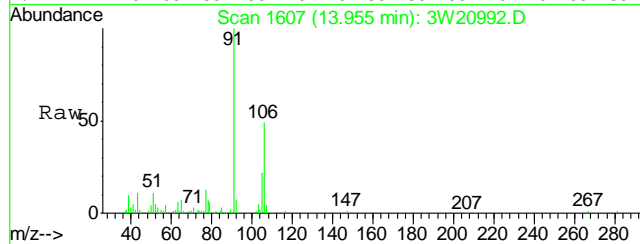
Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.8	11.5	51.5
77	9.0	0.0	28.4





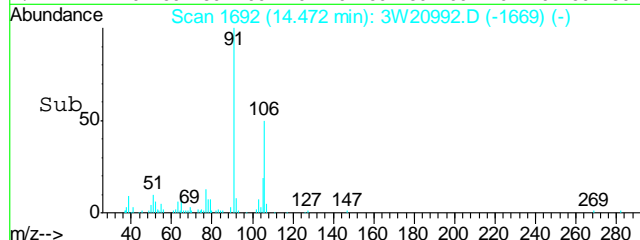
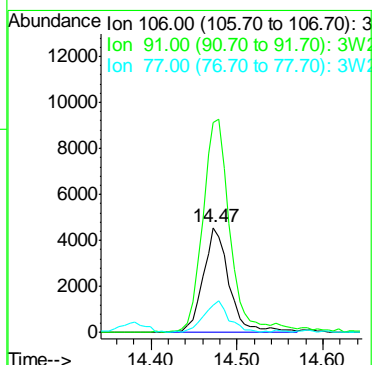
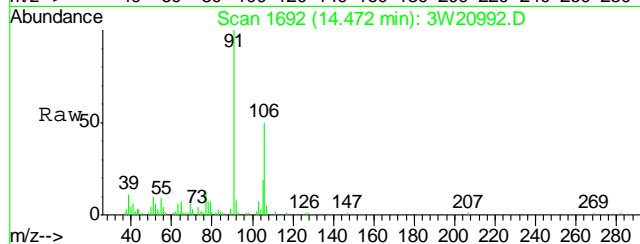
#71
m,p-XYLENE
Concen: 0.98 PPBV
RT: 13.96 min Scan# 1607
Delta R.T. -0.02 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

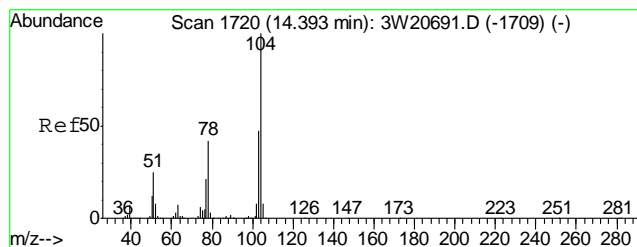
Tgt Ion	Ratio	Lower	Upper
106	100		
91	205.6	176.1	216.1
77	27.6	4.4	44.4



#72
o-XYLENE
Concen: 0.52 PPBV
RT: 14.47 min Scan# 1692
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

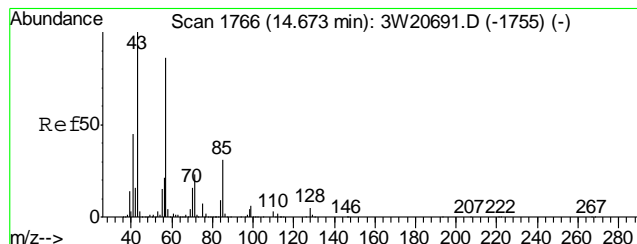
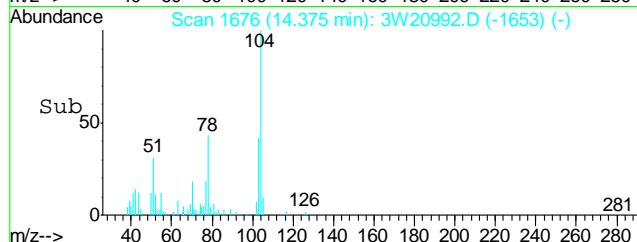
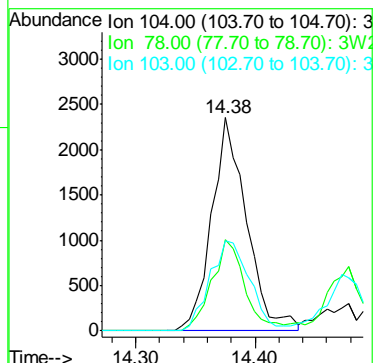
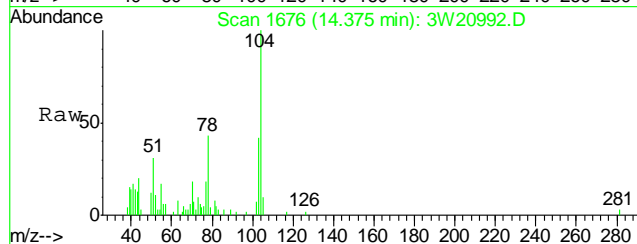
Tgt Ion	Ratio	Lower	Upper
106	100		
91	212.9	186.8	226.8
77	28.9	3.9	43.9





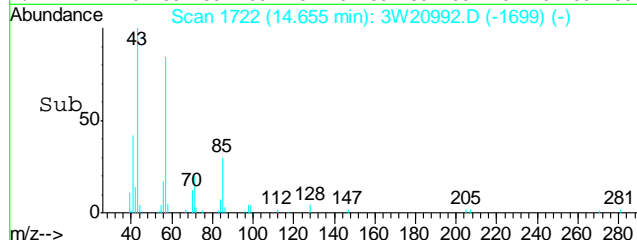
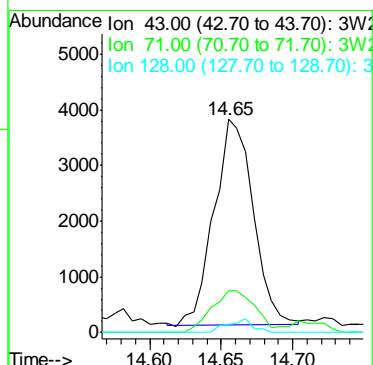
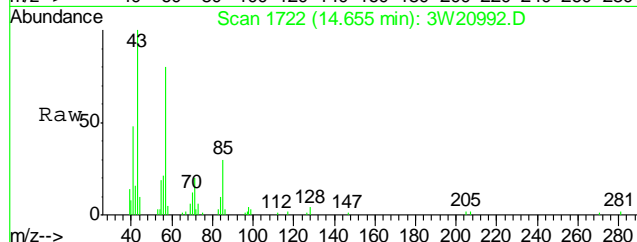
#73
 STYRENE
 Concen: 0.22 PPBV
 RT: 14.38 min Scan# 1676
 Delta R.T. -0.01 min
 Lab File: 3W20992.D
 Acq: 24 Feb 2011 10:54 pm

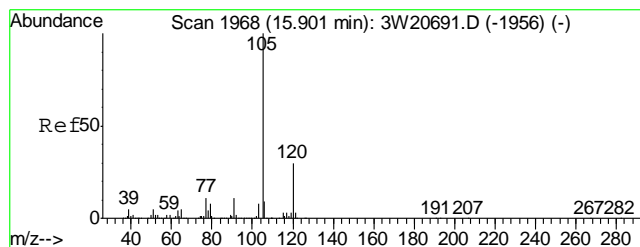
Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.2	19.0	59.0
103	48.6	27.2	67.2



#74
 NONANE
 Concen: 0.23 PPBV
 RT: 14.65 min Scan# 1722
 Delta R.T. -0.01 min
 Lab File: 3W20992.D
 Acq: 24 Feb 2011 10:54 pm

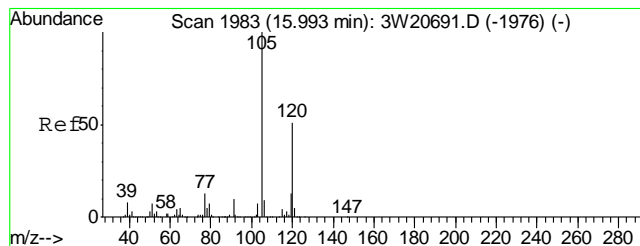
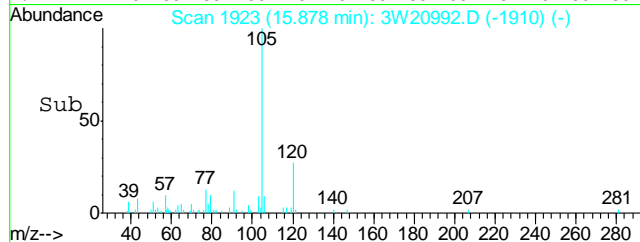
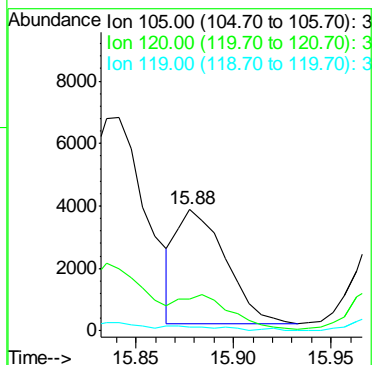
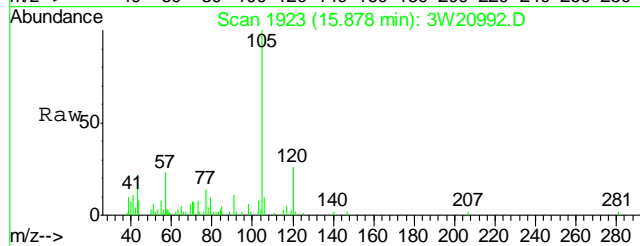
Tgt Ion	Ratio	Lower	Upper
43	100		
71	23.6	4.4	44.4
128	4.3	0.0	26.2





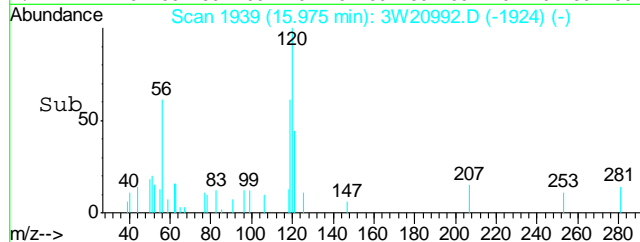
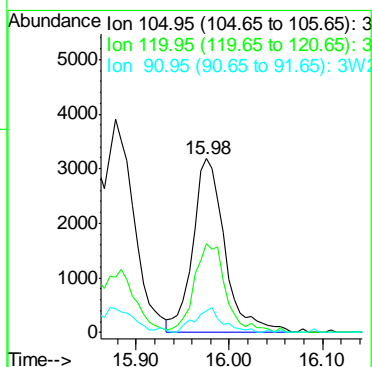
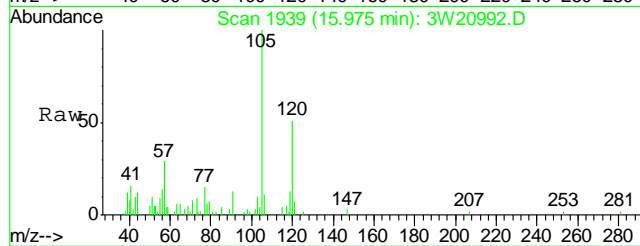
#82
4-ETHYLTOLUENE
Concen: 0.17 PPBV
RT: 15.88 min Scan# 1923
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

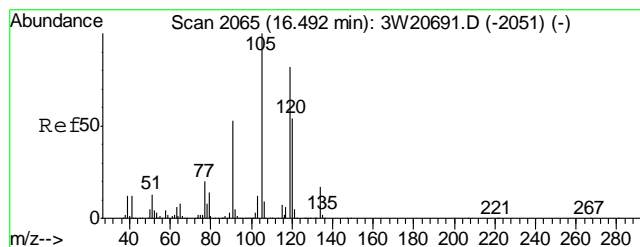
Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.0	10.0	50.0
119	4.7	0.0	22.6



#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.23 PPBV
RT: 15.98 min Scan# 1939
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

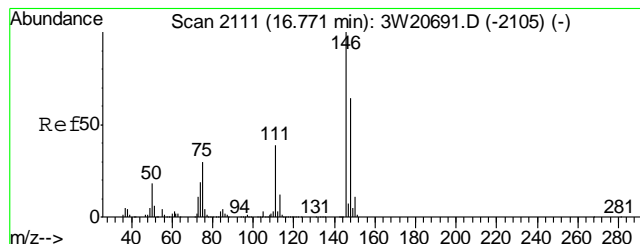
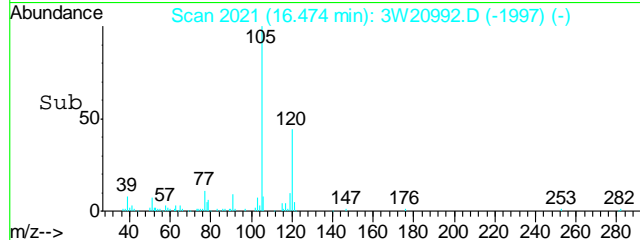
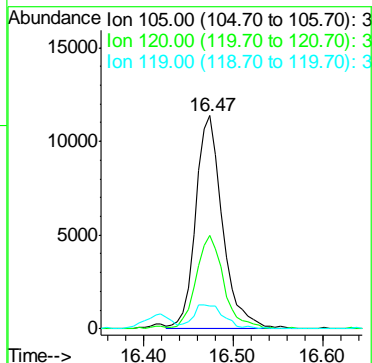
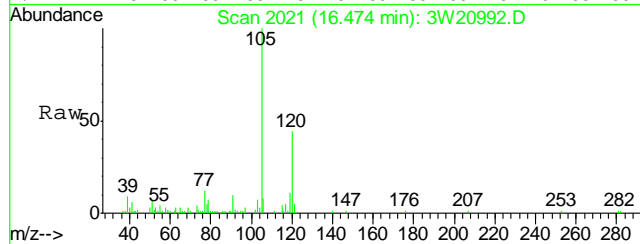
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.6	31.4	71.4
91	12.6	0.0	29.6





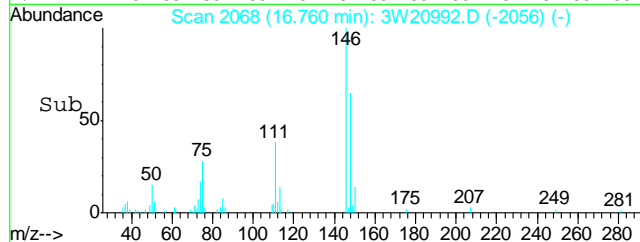
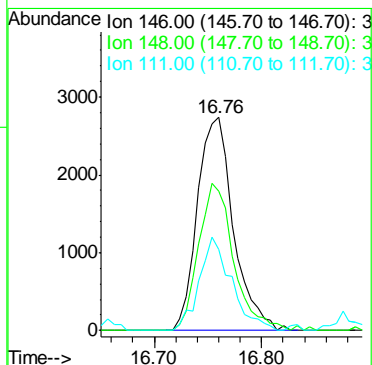
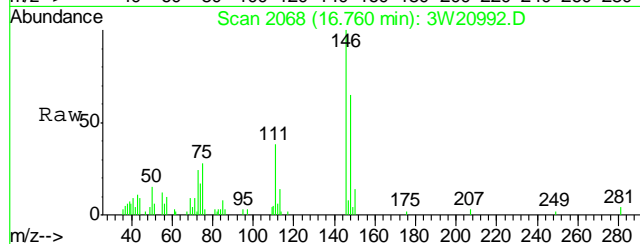
#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.85 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.7	39.2	79.2
119	13.2	104.5	144.5#



#88
p-DICHLOROBENZENE
Concen: 0.37 PPBV
RT: 16.76 min Scan# 2068
Delta R.T. -0.01 min
Lab File: 3W20992.D
Acq: 24 Feb 2011 10:54 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.2	44.2	84.2
111	39.4	14.5	54.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21015.D Vial: 11
 Acq On : 25 Feb 2011 4:57 pm Operator: yunxiac
 Sample : JA68565-10 Inst : MS3W
 Misc : MS8536,V3W829,30,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 28 08:22:21 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	194832	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	928006	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	428446	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	429527	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	240627	5.28	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	105.60%

Target Compounds

						Qvalue
6) PROPYLENE	4.34	41	12310	0.57	PPBV	88
11) n-BUTANE	4.73	43	11745	0.31	PPBV #	94
17) ISOPROPYL ALCOHOL	5.68	45	23231m	0.73	PPBV	
18) ACETONE	5.38	58	112129	14.57	PPBV #	84
23) CARBON DISULFIDE	6.17	76	32294	0.47	PPBV	93
24) ETHANOL	5.16	45	46032	5.80	PPBV	98
36) METHYL ETHYL KETONE	7.12	72	2701	0.37	PPBV #	90
39) ETHYL ACETATE	7.63	61	880	0.17	PPBV #	91
49) TRICHLOROETHYLENE	9.82	95	1597	0.06	PPBV	92
59) TOLUENE	11.57	92	5483	0.15	PPBV	94
71) m,p-XYLENE	13.97	106	4923	0.20	PPBV	92
72) o-XYLENE	14.48	106	2331	0.10	PPBV	90
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	5254	0.15	PPBV #	31

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21015.D M3W821.M Mon Feb 28 12:21:51 2011 MS3W

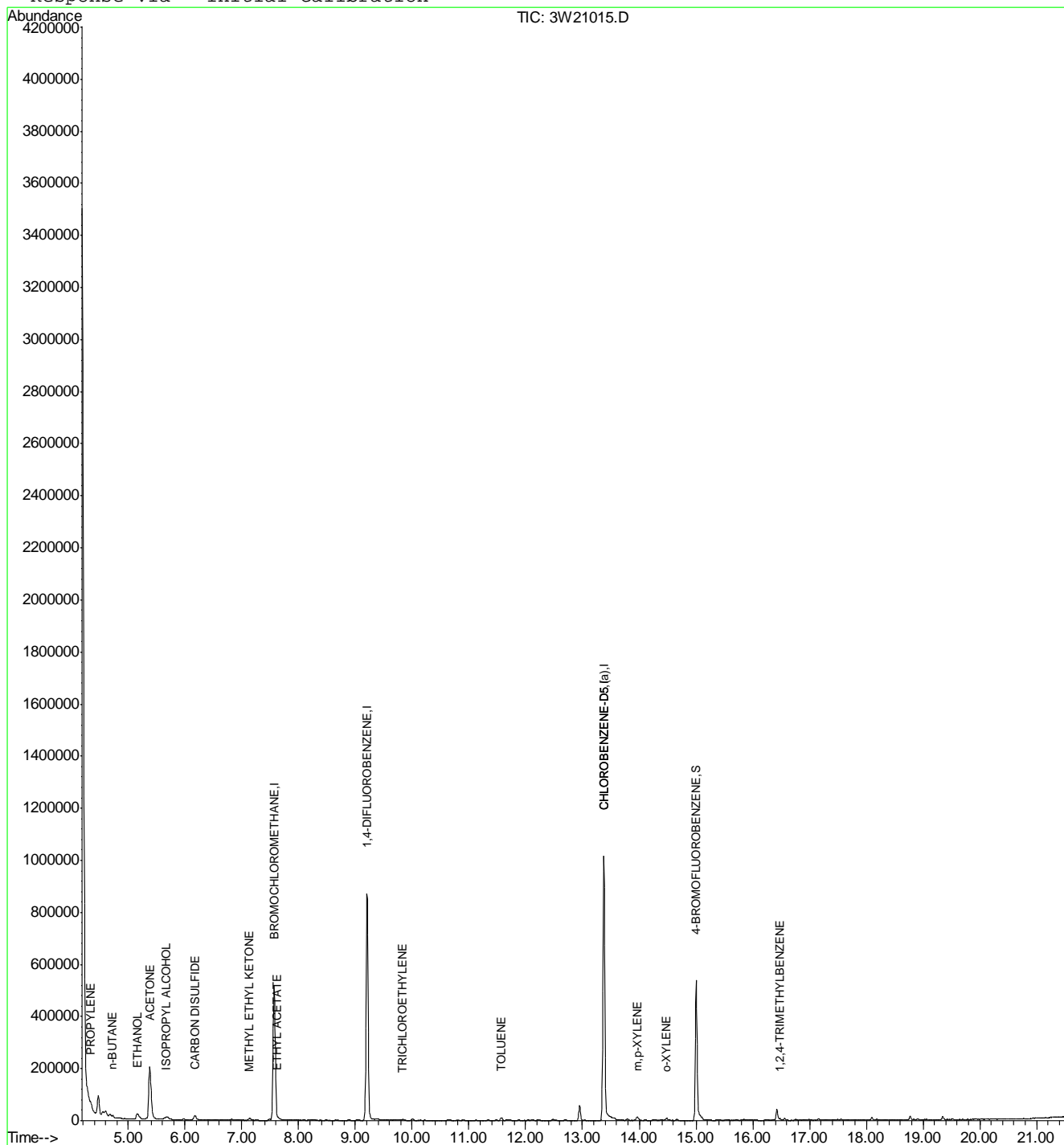
Quantitation Report (QT Reviewed)

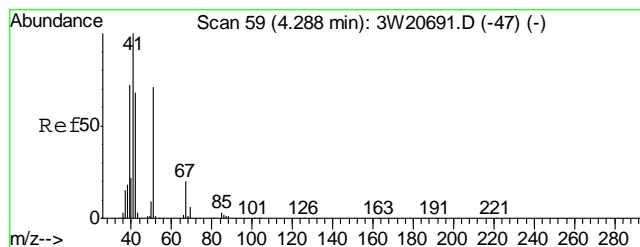
Data File : C:\MSDCHEM\1\DATA\3W21015.D
Acq On : 25 Feb 2011 4:57 pm
Sample : JA68565-10
Misc : MS8536,V3W829,30,,,1
MS Integration Params: rteint.p
Quant Time: Feb 28 11:10 2011

Vial: 11
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration





#6

PROPYLENE

Concen: 0.57 PPBV

RT: 4.34 min Scan# 26

Delta R.T. 0.01 min

Lab File: 3W21015.D

Acq: 25 Feb 2011 4:57 pm

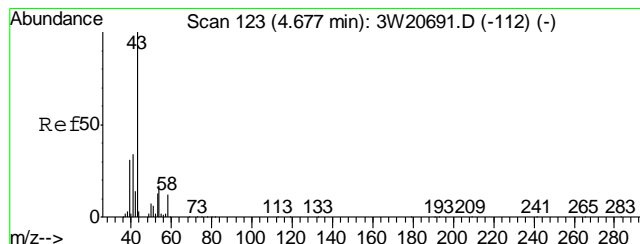
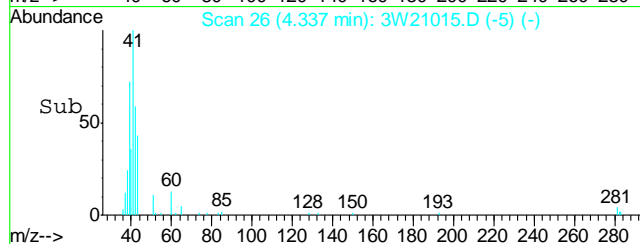
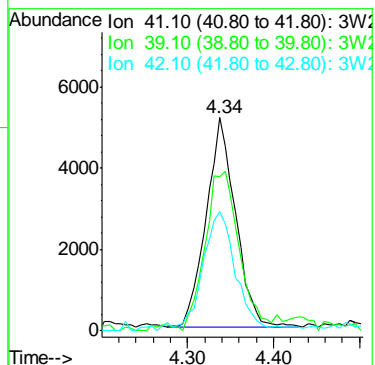
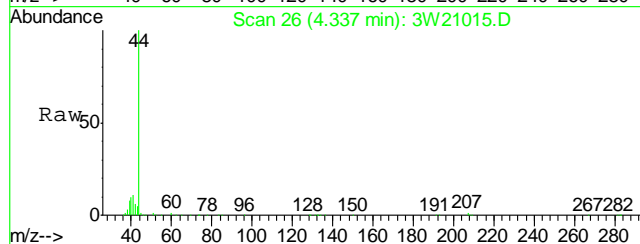
Tgt Ion: 41 Resp: 12310

Ion Ratio Lower Upper

41 100

39 83.8 50.7 90.7

42 59.4 46.0 86.0



#11

n-BUTANE

Concen: 0.31 PPBV

RT: 4.73 min Scan# 90

Delta R.T. 0.01 min

Lab File: 3W21015.D

Acq: 25 Feb 2011 4:57 pm

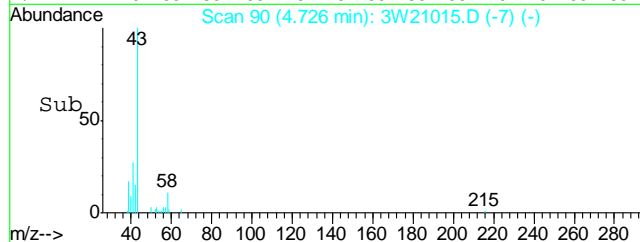
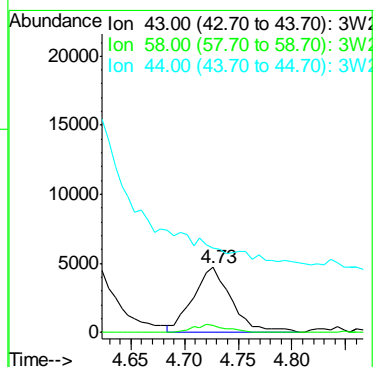
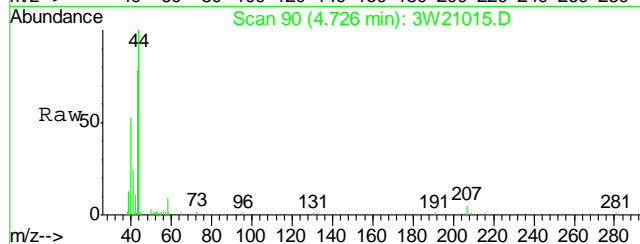
Tgt Ion: 43 Resp: 11745

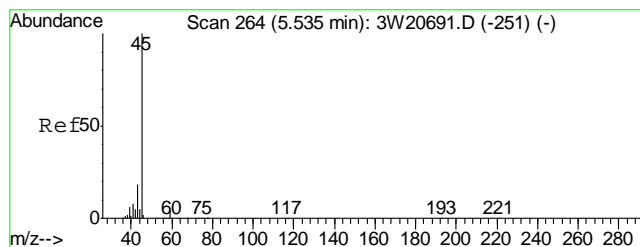
Ion Ratio Lower Upper

43 100

58 10.4 0.0 32.1

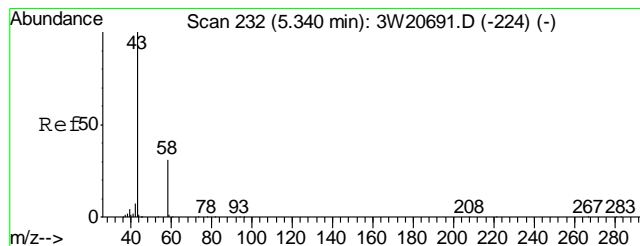
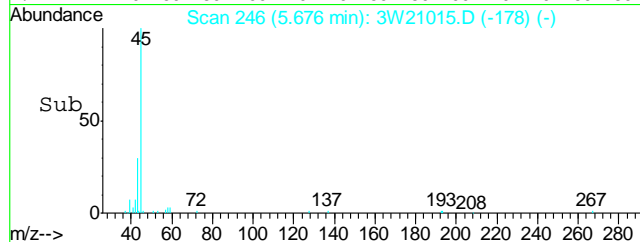
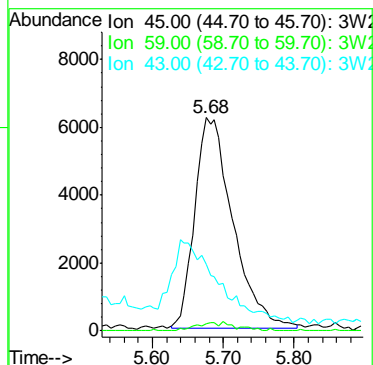
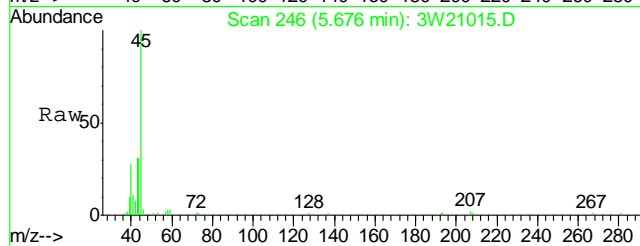
44 0.0 0.0 23.9





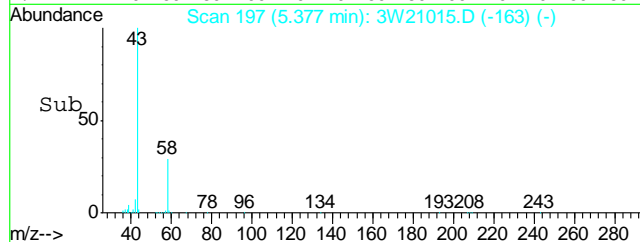
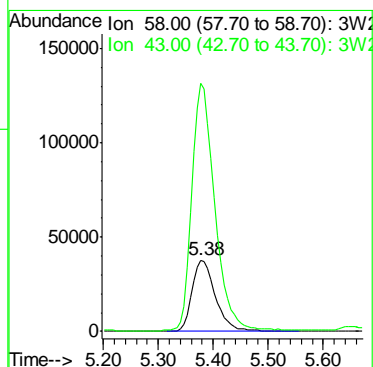
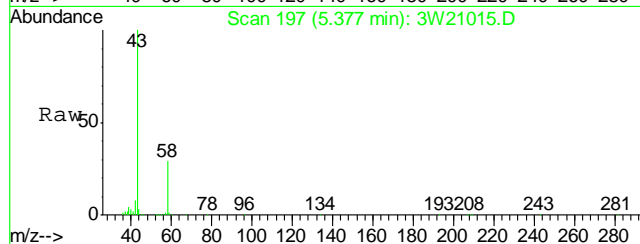
#17
ISOPROPYL ALCOHOL
Concen: 0.73 PPBV m
RT: 5.68 min Scan# 246
Delta R.T. 0.12 min
Lab File: 3W21015.D
Acq: 25 Feb 2011 4:57 pm

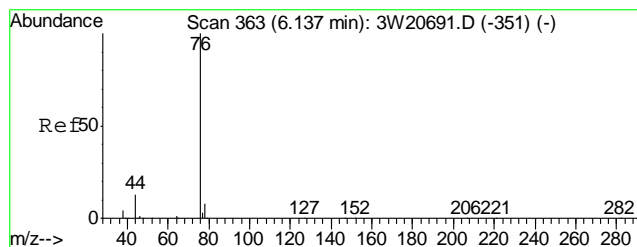
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.2	0.0	23.7
43	31.0	0.0	37.4



#18
ACETONE
Concen: 14.57 PPBV
RT: 5.38 min Scan# 197
Delta R.T. 0.01 min
Lab File: 3W21015.D
Acq: 25 Feb 2011 4:57 pm

Tgt Ion	Ratio	Lower	Upper
58	100		
43	341.5	289.1	329.1#





#23

CARBON DISULFIDE

Concen: 0.47 PPBV

RT: 6.17 min Scan# 328

Delta R.T. -0.00 min

Lab File: 3W21015.D

Acq: 25 Feb 2011 4:57 pm

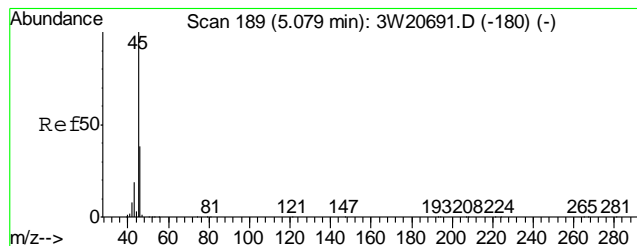
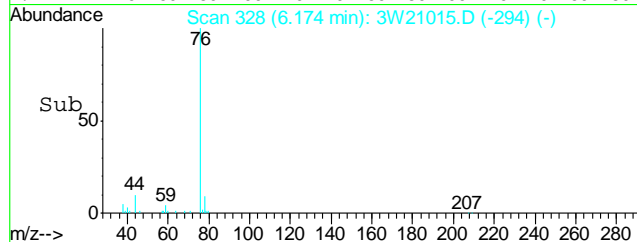
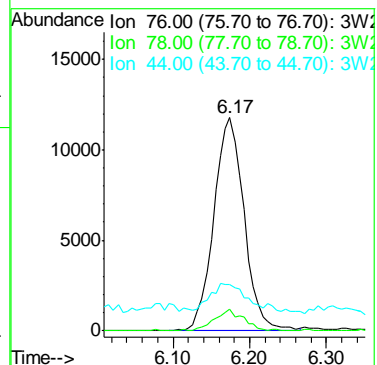
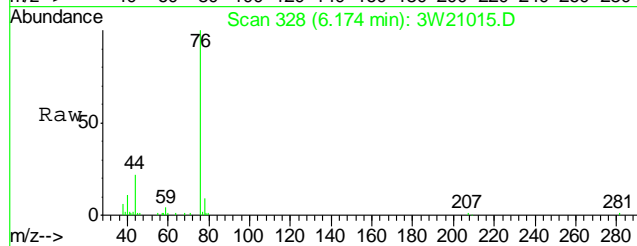
Tgt Ion: 76 Resp: 32294

Ion Ratio Lower Upper

76 100

78 9.3 0.0 30.5

44 15.8 0.0 31.7



#24

ETHANOL

Concen: 5.80 PPBV

RT: 5.16 min Scan# 161

Delta R.T. 0.05 min

Lab File: 3W21015.D

Acq: 25 Feb 2011 4:57 pm

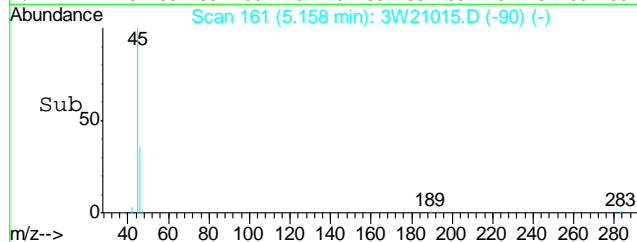
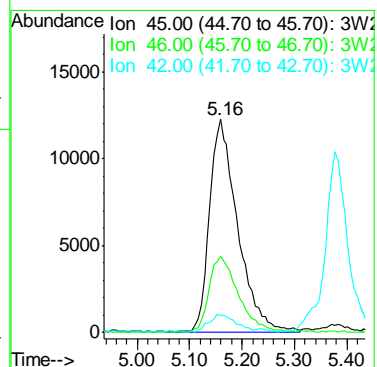
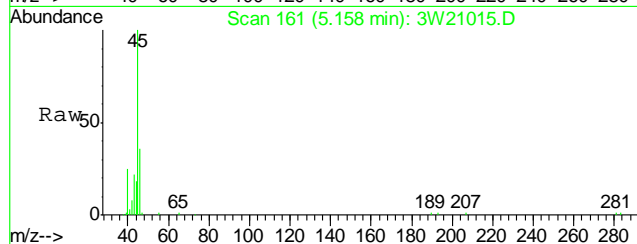
Tgt Ion: 45 Resp: 46032

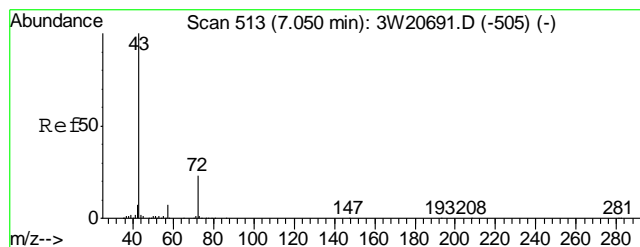
Ion Ratio Lower Upper

45 100

46 37.3 18.2 58.2

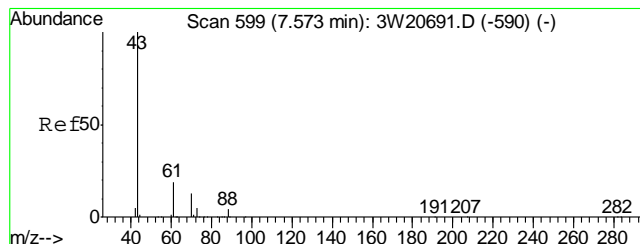
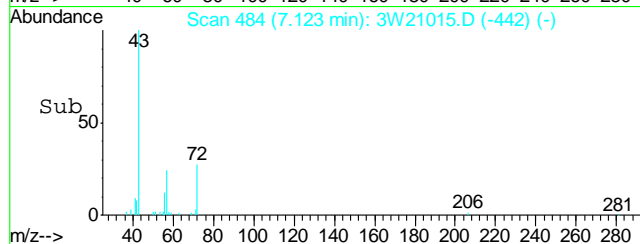
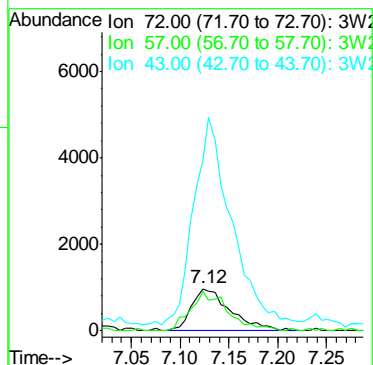
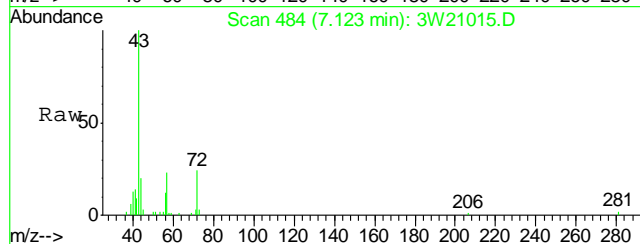
42 8.5 0.0 27.7





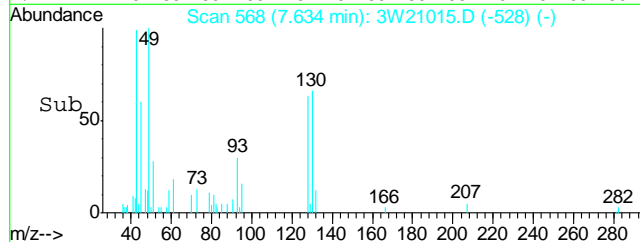
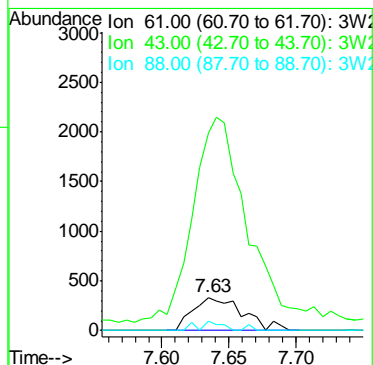
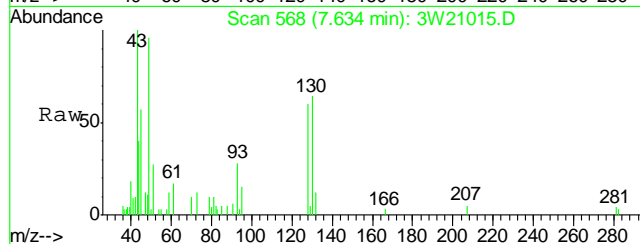
#36
METHYL ETHYL KETONE
Concen: 0.37 PPBV
RT: 7.12 min Scan# 484
Delta R.T. 0.05 min
Lab File: 3W21015.D
Acq: 25 Feb 2011 4:57 pm

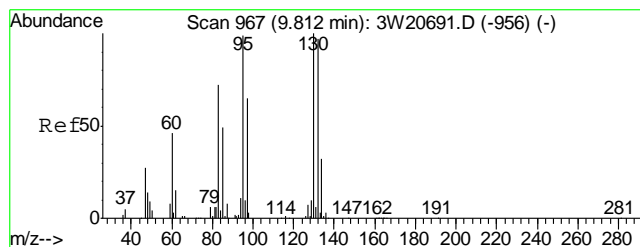
Tgt Ion	Ratio	Lower	Upper
72	100		
57	95.1	11.3	51.3#
43	408.4	384.1	424.1



#39
ETHYL ACETATE
Concen: 0.17 PPBV
RT: 7.63 min Scan# 568
Delta R.T. 0.04 min
Lab File: 3W21015.D
Acq: 25 Feb 2011 4:57 pm

Tgt Ion	Ratio	Lower	Upper
61	100		
43	672.2	682.3	722.3#
88	12.0	6.1	46.1





#49

TRICHLOROETHYLENE

Concen: 0.06 PPBV

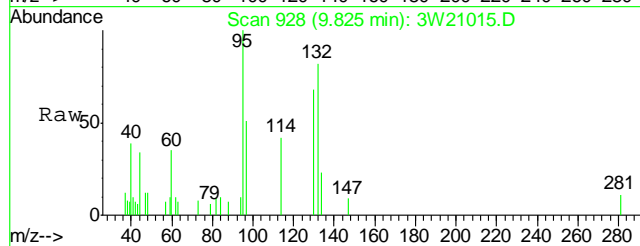
RT: 9.82 min Scan# 928

Delta R.T. -0.00 min

Lab File: 3W21015.D

Acq: 25 Feb 2011 4:57 pm

Tgt Ion:	95	Resp:	1597
Ion Ratio	Lower	Upper	
95	100		
132	91.3	83.4	123.4
130	115.0	87.1	127.1
97	63.1	44.2	84.2



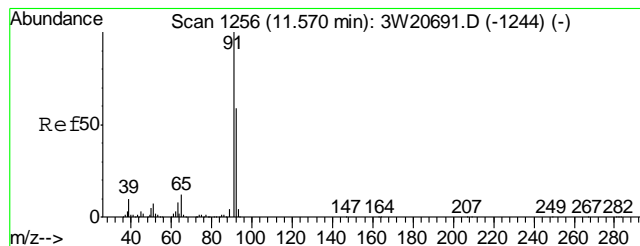
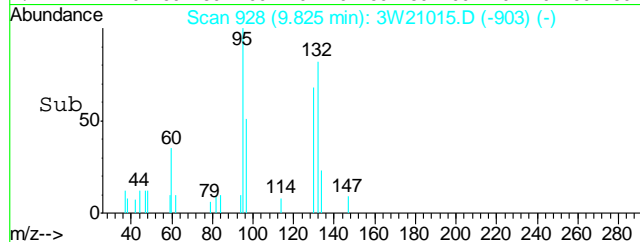
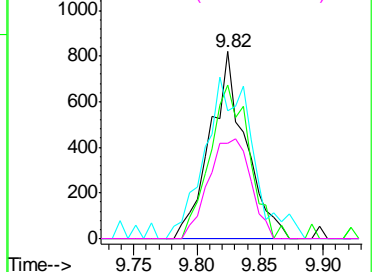
Abundance

Ion 95.00 (94.70 to 95.70): 3W21015.D

Ion 132.00 (131.70 to 132.70): 3W21015.D

Ion 130.00 (129.70 to 130.70): 3W21015.D

Ion 97.00 (96.70 to 97.70): 3W21015.D



#59

TOLUENE

Concen: 0.15 PPBV

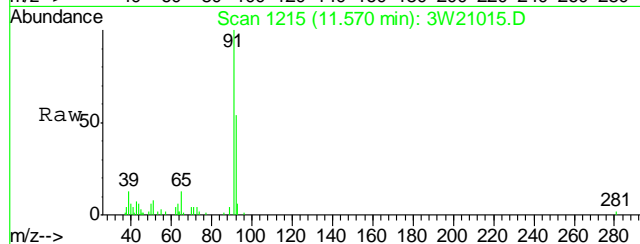
RT: 11.57 min Scan# 1215

Delta R.T. -0.00 min

Lab File: 3W21015.D

Acq: 25 Feb 2011 4:57 pm

Tgt Ion:	92	Resp:	5483
Ion Ratio	Lower	Upper	
92	100		
91	176.6	148.6	188.6
65	20.1	0.0	38.0

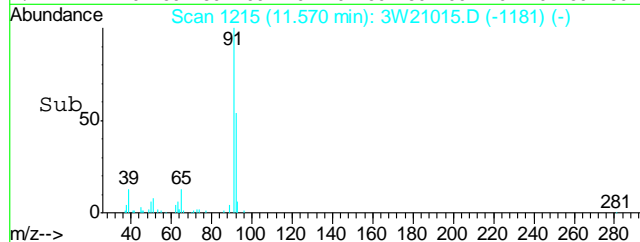
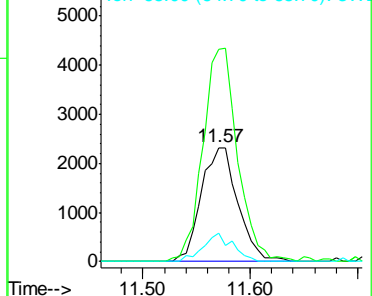


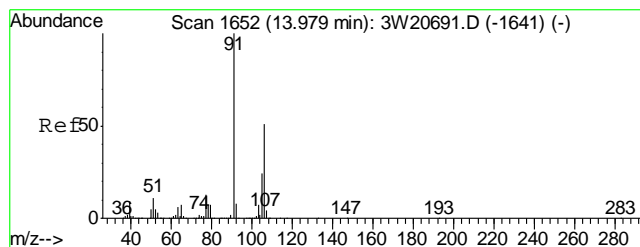
Abundance

Ion 92.00 (91.70 to 92.70): 3W21015.D

Ion 91.00 (90.70 to 91.70): 3W21015.D

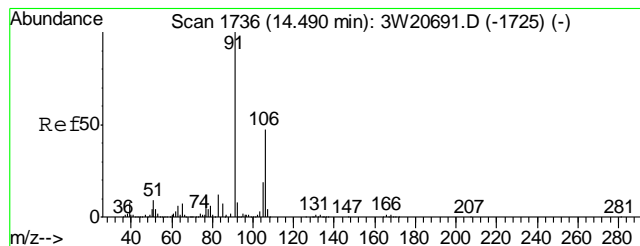
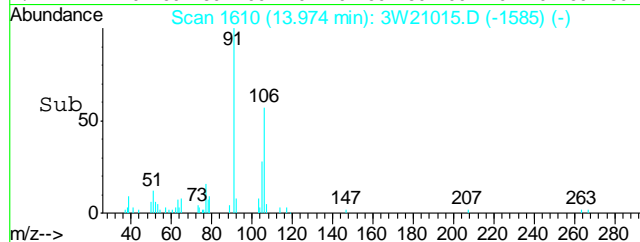
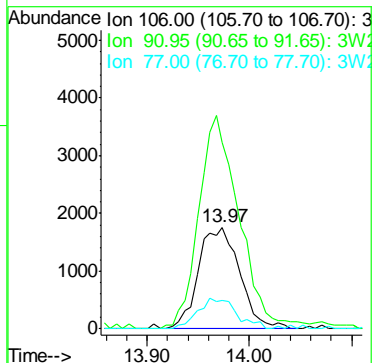
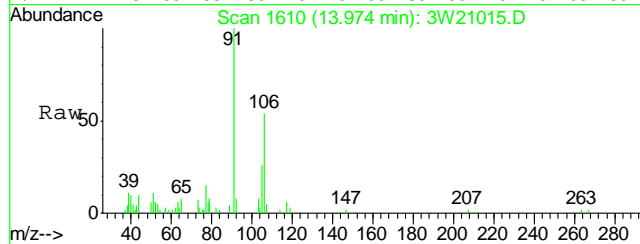
Ion 65.00 (64.70 to 65.70): 3W21015.D





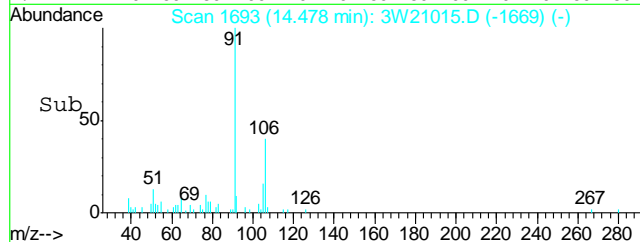
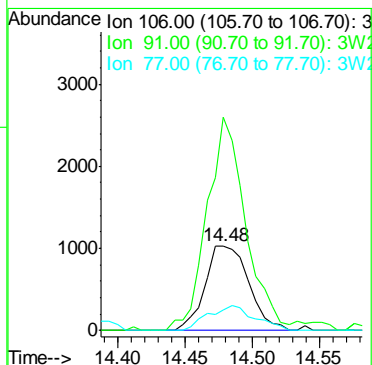
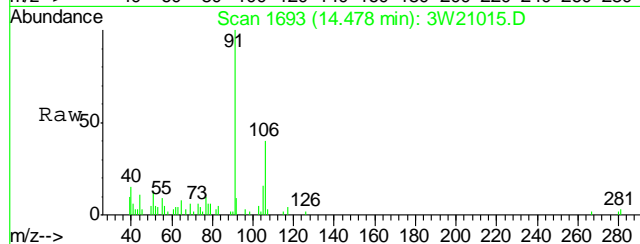
#71
m,p-XYLENE
Concen: 0.20 PPBV
RT: 13.97 min Scan# 1610
Delta R.T. -0.00 min
Lab File: 3W21015.D
Acq: 25 Feb 2011 4:57 pm

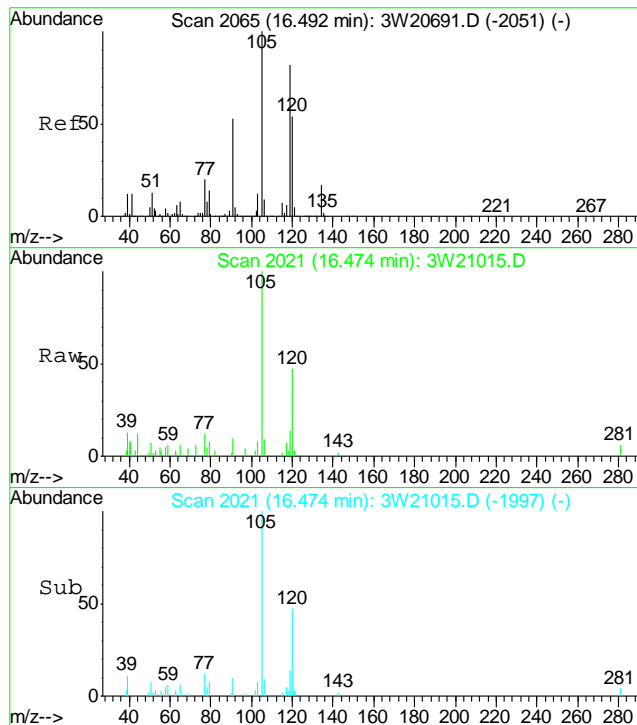
Tgt Ion	Ratio	Lower	Upper
106	100		
91	184.1	176.1	216.1
77	28.2	4.4	44.4



#72
o-XYLENE
Concen: 0.10 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W21015.D
Acq: 25 Feb 2011 4:57 pm

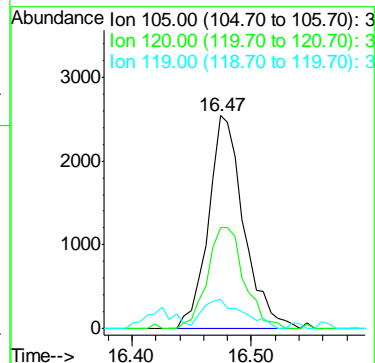
Tgt Ion	Ratio	Lower	Upper
106	100		
91	221.2	186.8	226.8
77	31.5	3.9	43.9





#85
 1,2,4-TRIMETHYLBENZENE
 Concen: 0.15 PPBV
 RT: 16.47 min Scan# 2021
 Delta R.T. -0.01 min
 Lab File: 3W21015.D
 Acq: 25 Feb 2011 4:57 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.4	39.2	79.2
119	15.9	104.5	144.5#



Manual Integration Approval Summary

Sample Number: JA68565-10

Method: TO-15

Lab FileID: 3W21015.D

Analyst approved: 02/28/11 12:36 Yunxia Chen

Injection Time: 02/25/11 16:57

Supervisor approved: 03/10/11 05:20 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Isopropyl Alcohol	67-63-0		5.68	Split peak

6.1.15.1

6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20993.D Vial: 12
 Acq On : 24 Feb 2011 11:33 pm Operator: yunxiac
 Sample : ja68565-11 Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:11:12 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	138939	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	668546	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	312370	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	312370	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	184878	5.57	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	111.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) DICHLORODIFLUOROMETHANE	4.37	85	6896	0.17	PPBV	97
6) PROPYLENE	4.34	41	16613	1.08	PPBV #	74
8) CHLOROMETHANE	4.48	50	3789	0.22	PPBV	80
11) n-BUTANE	4.72	43	63142	2.35	PPBV #	96
17) ISOPROPYL ALCOHOL	5.60	45	47124	2.08	PPBV	89
18) ACETONE	5.37	58	67321	12.27	PPBV #	82
19) PENTANE	5.64	42	10839	0.59	PPBV #	76
23) CARBON DISULFIDE	6.17	76	9928	0.20	PPBV #	61
24) ETHANOL	5.10	45	176264	31.15	PPBV	100
28) FREON 113	6.12	151	7045	0.25	PPBV	99
30) TERTIARY BUTYL ALCOHOL	6.05	59	3316	0.13	PPBV	83
31) METHYL TERTIARY BUTYL ETHE	6.81	73	5760	0.17	PPBV #	15
33) HEXANE	7.48	57	6977	0.28	PPBV	94
36) METHYL ETHYL KETONE	7.09	72	2360	0.46	PPBV #	71
39) ETHYL ACETATE	7.60	61	3273	0.91	PPBV #	83
46) BENZENE	8.88	78	9124	0.23	PPBV	98
47) CYCLOHEXANE	9.05	56	6609	0.26	PPBV #	39
49) TRICHLOROETHYLENE	9.82	95	10167	0.52	PPBV	97
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	6828	0.10	PPBV #	59
54) HEPTANE	10.00	43	6765	0.24	PPBV	93
59) TOLUENE	11.56	92	16791	0.65	PPBV	95
64) TETRACHLOROETHYLENE	12.69	164	1012	0.05	PPBV	94
67) OCTANE	12.48	43	4701	0.13	PPBV	91
70) ETHYLBENZENE	13.78	91	6340	0.13	PPBV	95
71) m,p-XYLENE	13.96	106	8358	0.45	PPBV	94
72) o-XYLENE	14.47	106	3416	0.20	PPBV #	85
74) NONANE	14.66	43	3575	0.12	PPBV #	87
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	3318	0.11	PPBV	95
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	8354	0.32	PPBV #	29

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20993.D M3W821.M Fri Feb 25 10:20:50 2011 MS3W

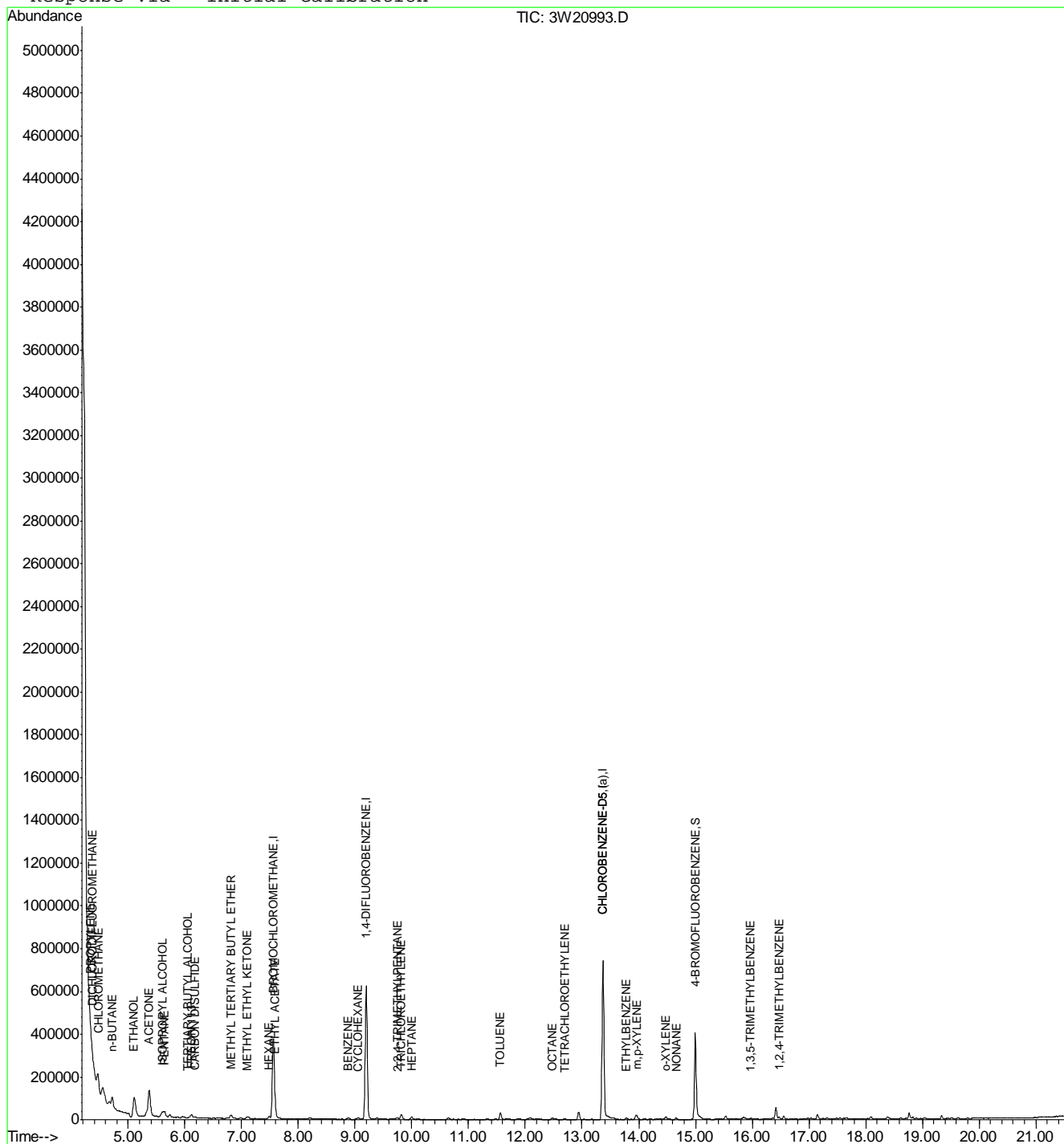
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20993.D
Acq On : 24 Feb 2011 11:33 pm
Sample : ja68565-11
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:31 2011

Vial: 12
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

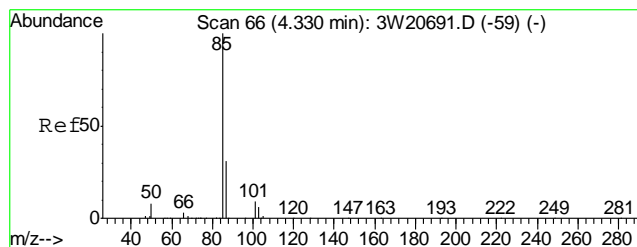


3W20993.D M3W821.M

Fri Feb 25 10:20:50 2011

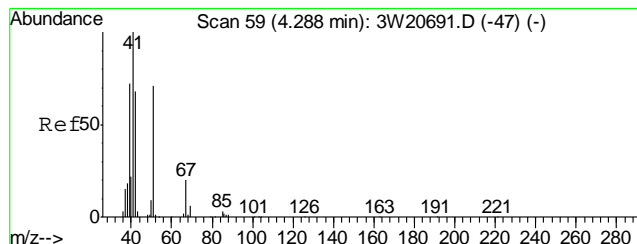
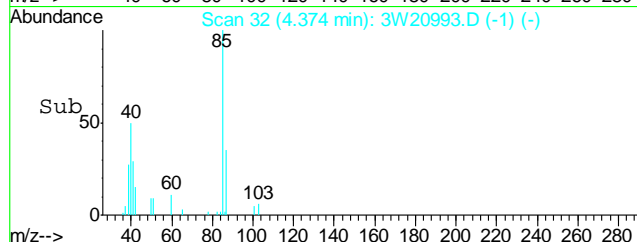
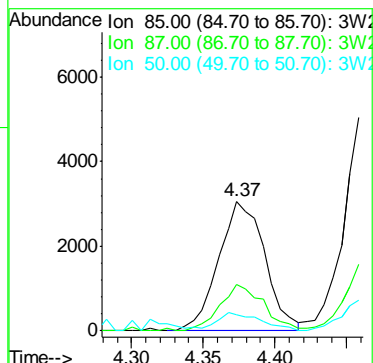
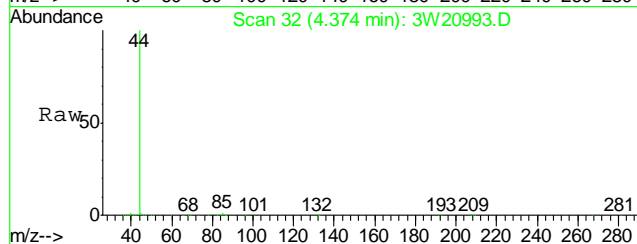
MS3W

Page 2



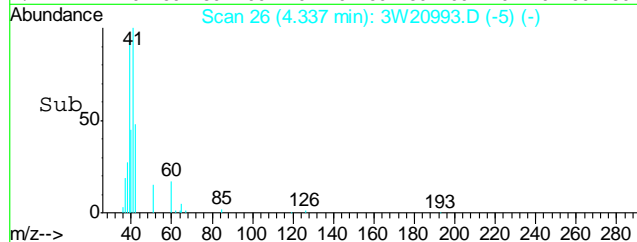
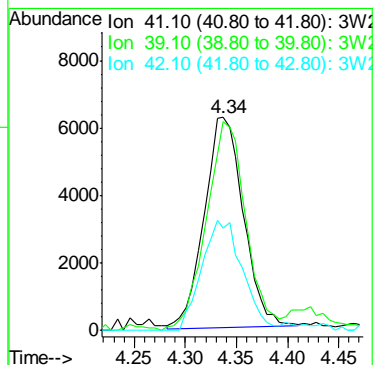
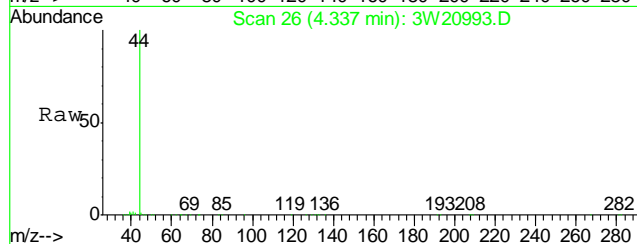
#5
DICHLORODIFLUOROMETHANE
Concen: 0.17 PPBV
RT: 4.37 min Scan# 32
Delta R.T. -0.00 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

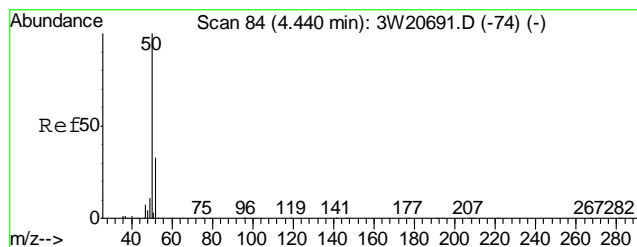
Tgt Ion:	85	Resp:	6896
Ion Ratio	Lower	Upper	
85	100		
87	33.4	12.9	52.9
50	13.6	0.0	30.6



#6
PROPYLENE
Concen: 1.08 PPBV
RT: 4.34 min Scan# 26
Delta R.T. 0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

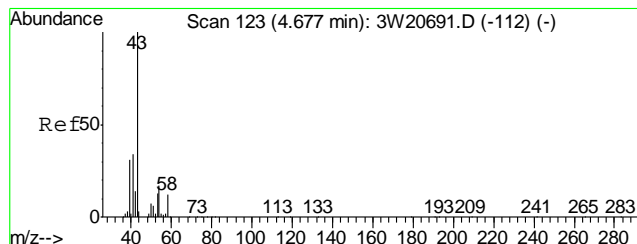
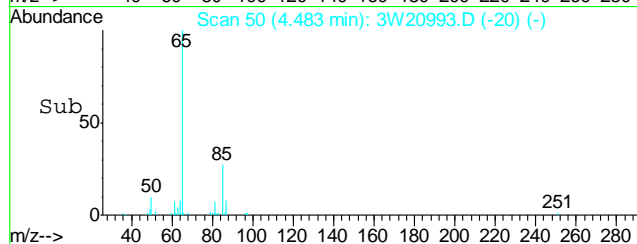
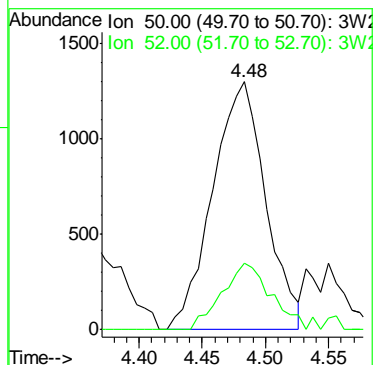
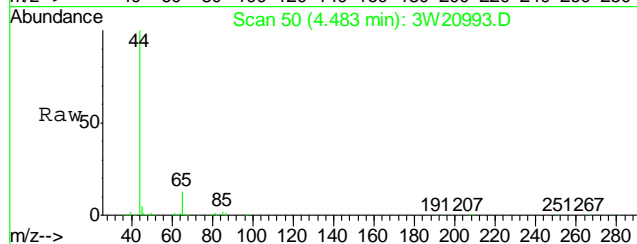
Tgt Ion:	41	Resp:	16613
Ion Ratio	Lower	Upper	
41	100		
39	100.3	50.7	90.7#
42	54.3	46.0	86.0





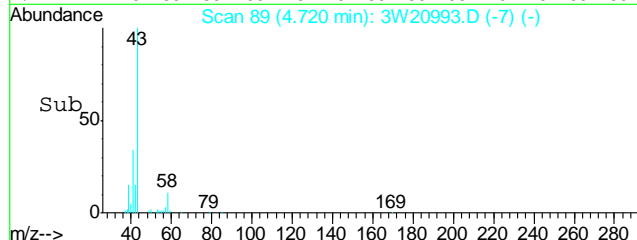
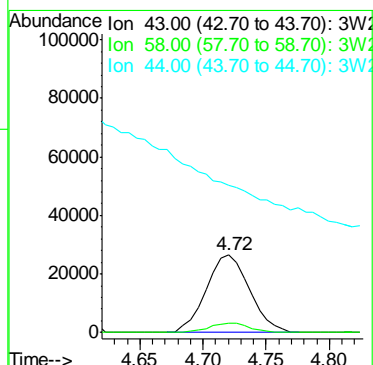
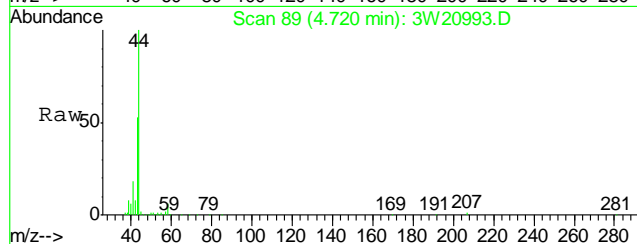
#8
CHLOROMETHANE
Concen: 0.22 PPBV
RT: 4.48 min Scan# 50
Delta R.T. 0.00 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

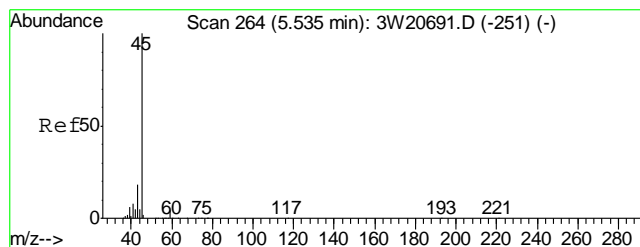
Tgt Ion: 50 Resp: 3789
Ion Ratio Lower Upper
50 100
52 25.4 17.2 57.2



#11
n-BUTANE
Concen: 2.35 PPBV
RT: 4.72 min Scan# 89
Delta R.T. 0.00 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

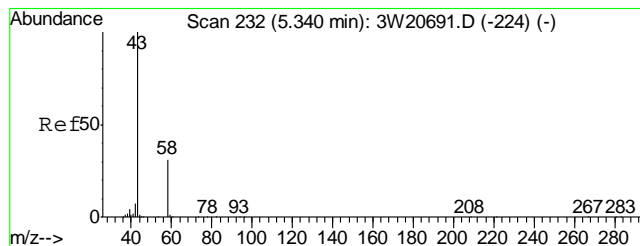
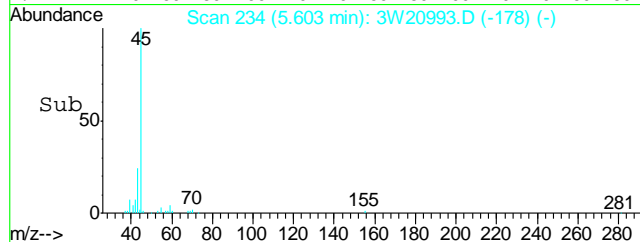
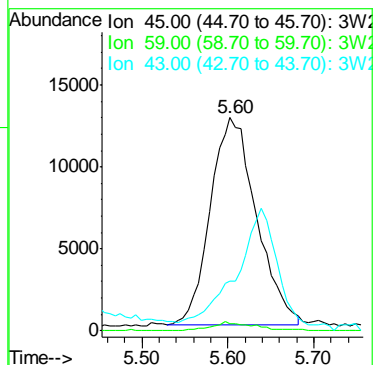
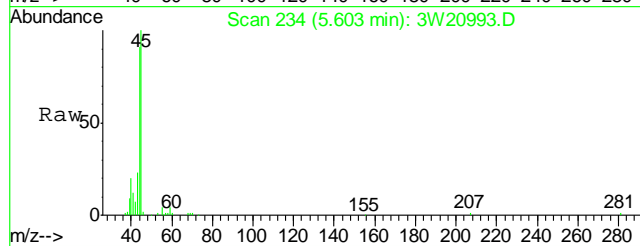
Tgt Ion: 43 Resp: 63142
Ion Ratio Lower Upper
43 100
58 11.5 0.0 32.1
44 0.0 0.0 23.9





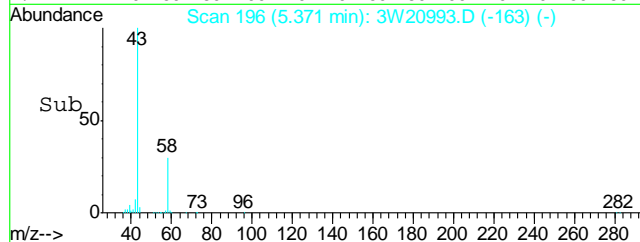
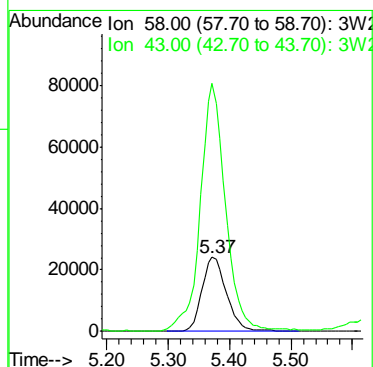
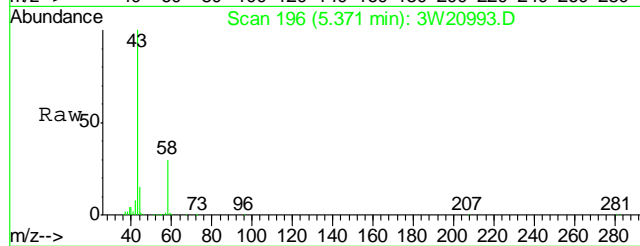
#17
ISOPROPYL ALCOHOL
Concen: 2.08 PPBV
RT: 5.60 min Scan# 234
Delta R.T. 0.04 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

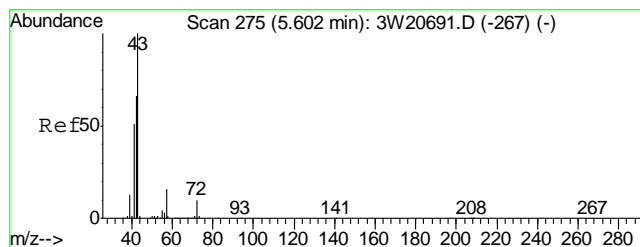
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.5	0.0	23.7
43	23.4	0.0	37.4



#18
ACETONE
Concen: 12.27 PPBV
RT: 5.37 min Scan# 196
Delta R.T. 0.00 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

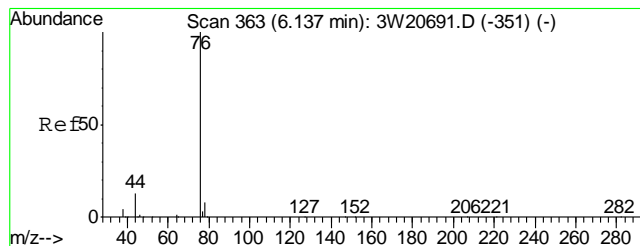
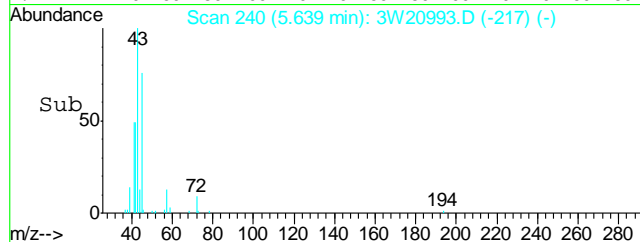
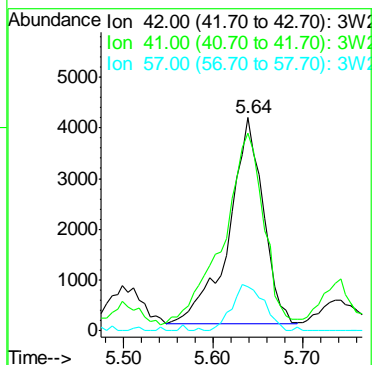
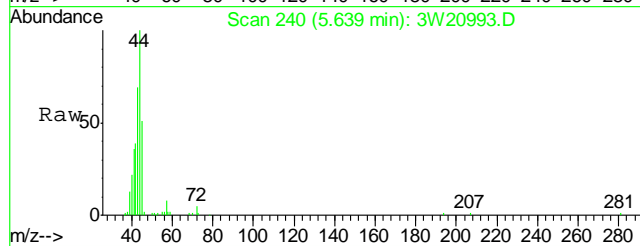
Tgt Ion	Ratio	Lower	Upper
58	100		
43	345.6	289.1	329.1#





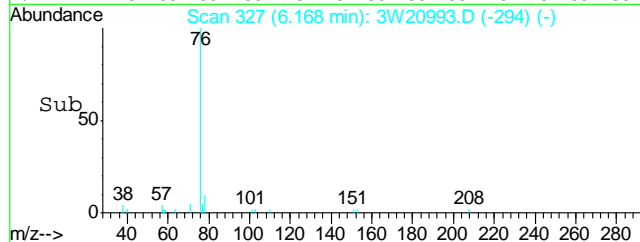
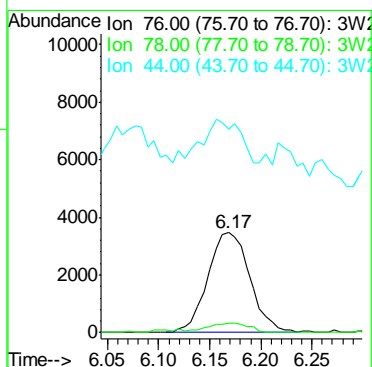
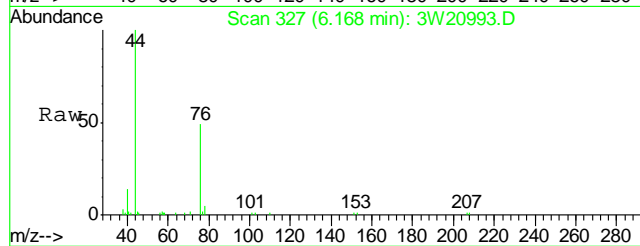
#19
PENTANE
Concen: 0.59 PPBV
RT: 5.64 min Scan# 240
Delta R.T. 0.00 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

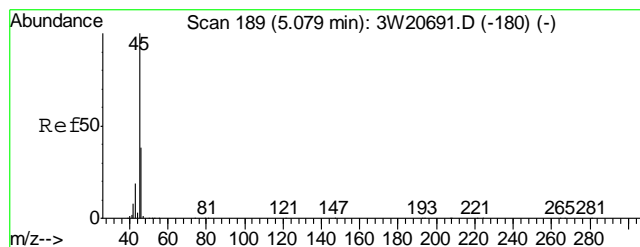
Tgt Ion	Ratio	Lower	Upper
42	100		
41	110.9	65.1	105.1#
57	20.9	5.2	45.2



#23
CARBON DISULFIDE
Concen: 0.20 PPBV
RT: 6.17 min Scan# 327
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

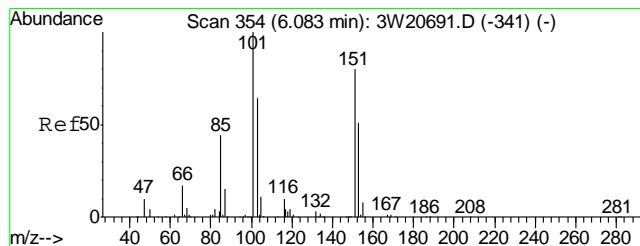
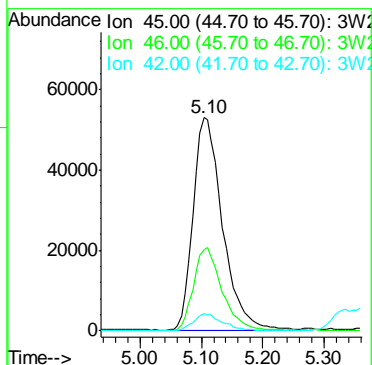
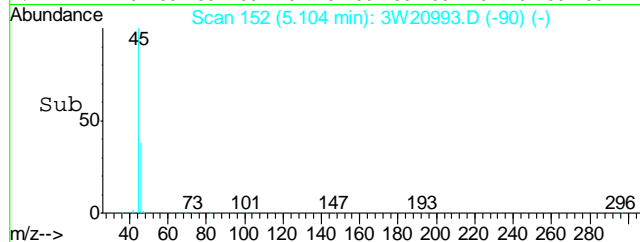
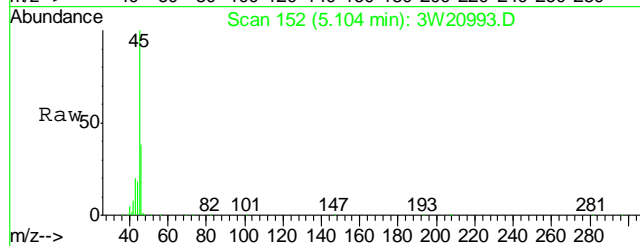
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	30.5
44	39.0	0.0	31.7#





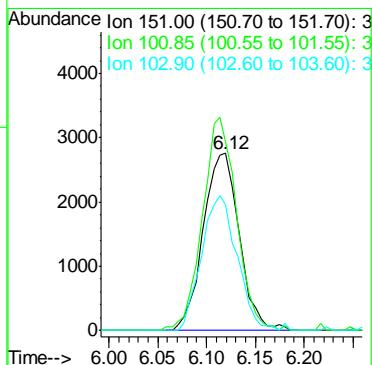
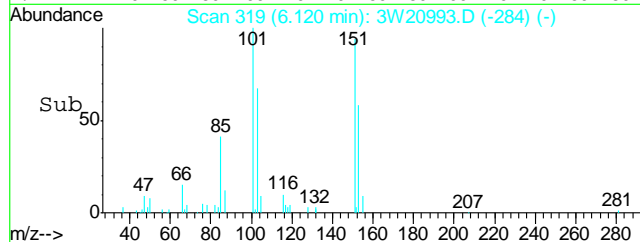
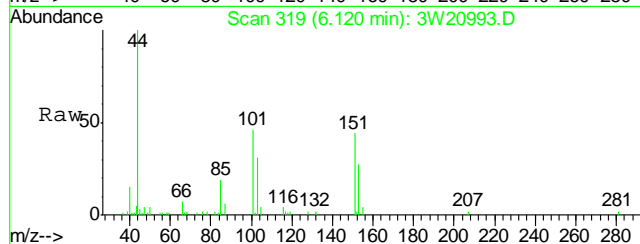
#24
 ETHANOL
 Concen: 31.15 PPBV
 RT: 5.10 min Scan# 152
 Delta R.T. -0.01 min
 Lab File: 3W20993.D
 Acq: 24 Feb 2011 11:33 pm

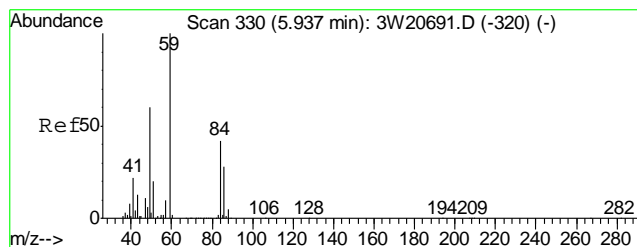
Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.0	18.2	58.2
42	7.5	0.0	27.7



#28
 FREON 113
 Concen: 0.25 PPBV
 RT: 6.12 min Scan# 319
 Delta R.T. 0.01 min
 Lab File: 3W20993.D
 Acq: 24 Feb 2011 11:33 pm

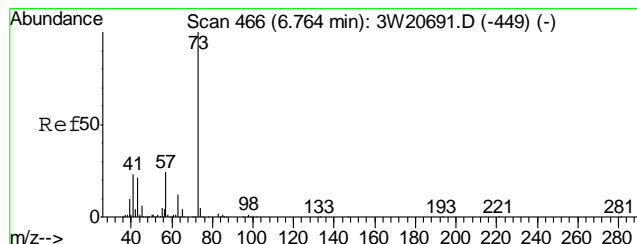
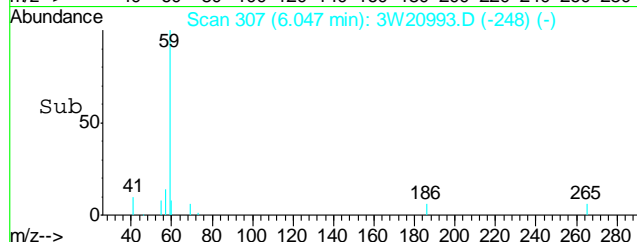
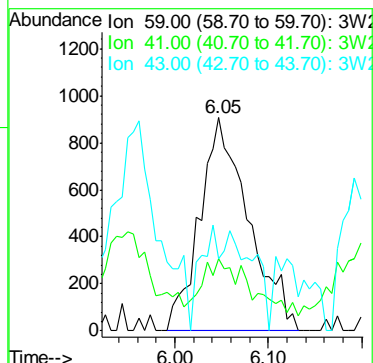
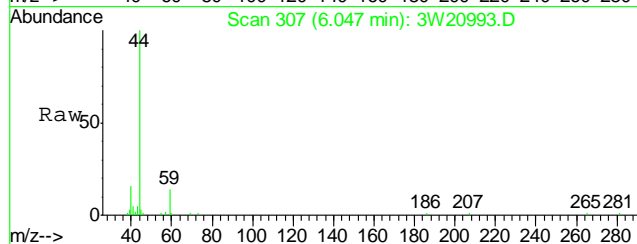
Tgt Ion	Ratio	Lower	Upper
151	100		
101	113.7	95.5	135.5
103	74.8	54.9	94.9





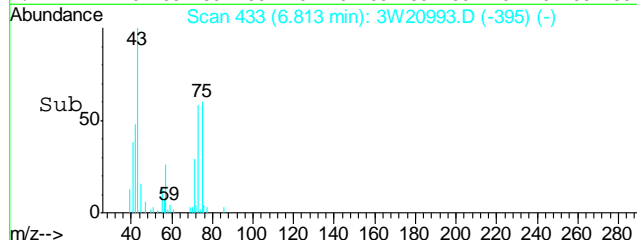
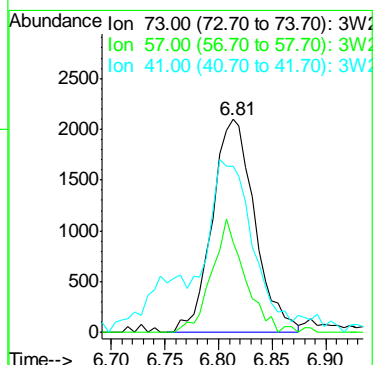
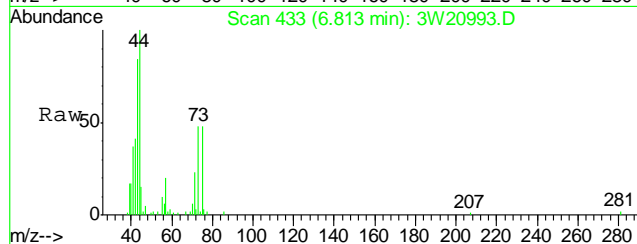
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.13 PPBV
RT: 6.05 min Scan# 307
Delta R.T. 0.06 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

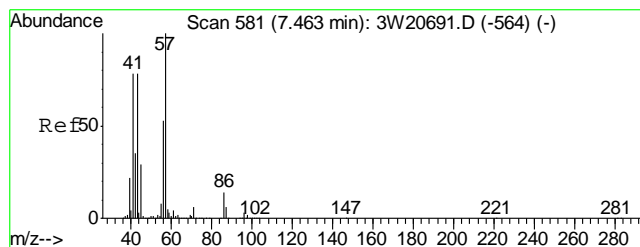
Tgt Ion	Ratio	Lower	Upper
59	100		
41	26.1	0.0	38.0
43	18.6	0.0	33.0



#31
METHYL TERTIARY BUTYL ETHER
Concen: 0.17 PPBV
RT: 6.81 min Scan# 433
Delta R.T. 0.03 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

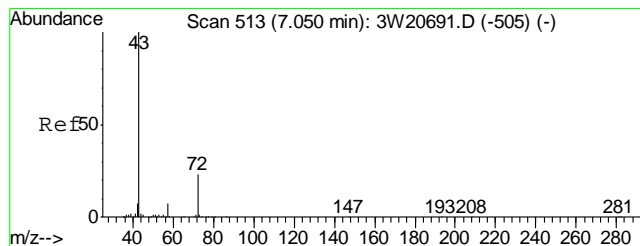
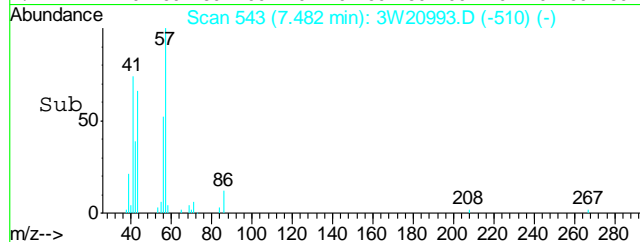
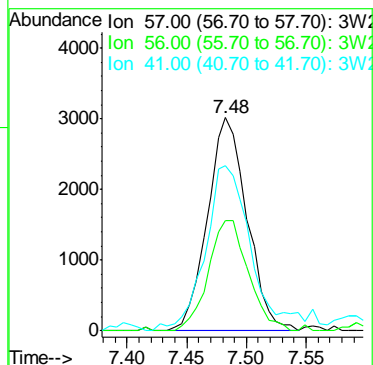
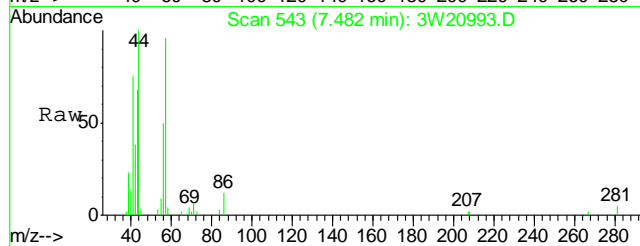
Tgt Ion	Ratio	Lower	Upper
73	100		
57	41.5	3.0	43.0
41	85.3	1.6	41.6#





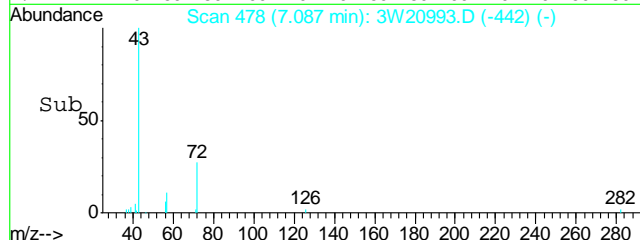
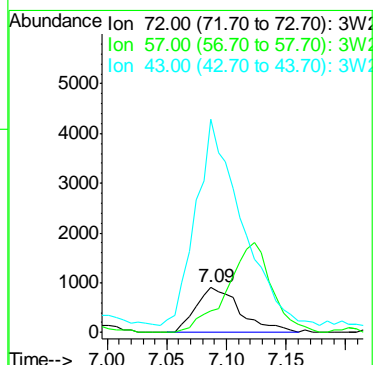
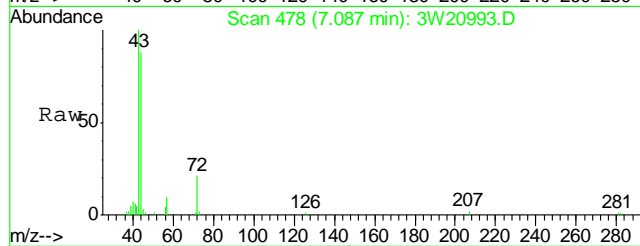
#33
 HEXANE
 Concen: 0.28 PPBV
 RT: 7.48 min Scan# 543
 Delta R.T. -0.01 min
 Lab File: 3W20993.D
 Acq: 24 Feb 2011 11:33 pm

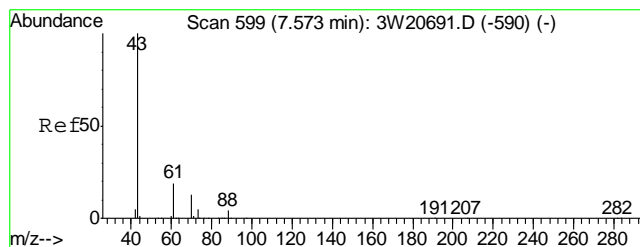
Tgt Ion: 57 Resp: 6977
 Ion Ratio Lower Upper
 57 100
 56 52.4 30.5 70.5
 41 92.1 79.2 119.2



#36
 METHYL ETHYL KETONE
 Concen: 0.46 PPBV
 RT: 7.09 min Scan# 478
 Delta R.T. 0.01 min
 Lab File: 3W20993.D
 Acq: 24 Feb 2011 11:33 pm

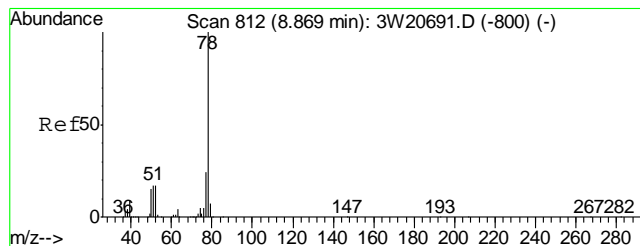
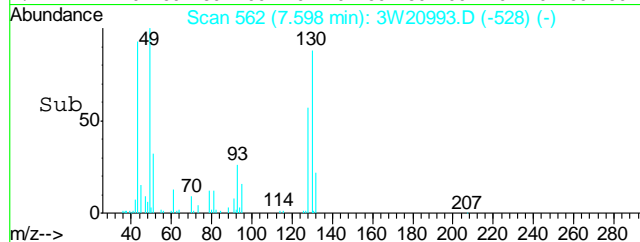
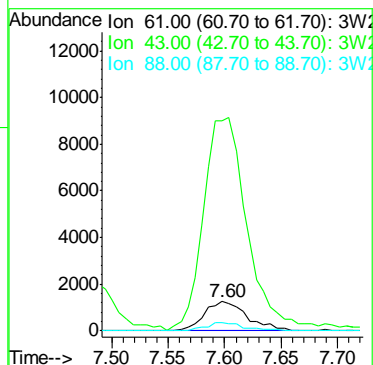
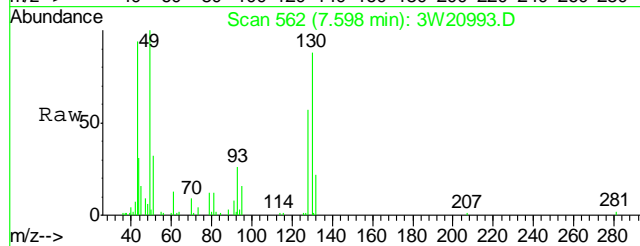
Tgt Ion: 72 Resp: 2360
 Ion Ratio Lower Upper
 72 100
 57 48.2 11.3 51.3
 43 472.0 384.1 424.1#





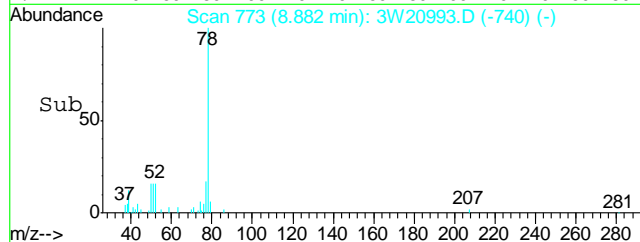
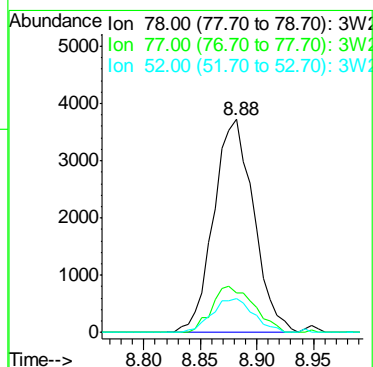
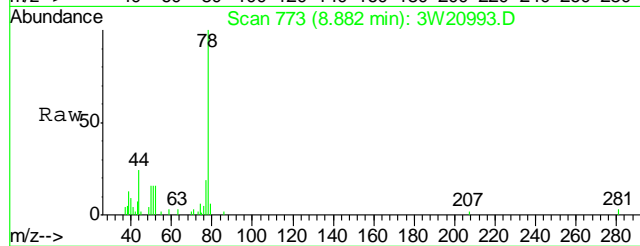
#39
ETHYL ACETATE
Concen: 0.91 PPBV
RT: 7.60 min Scan# 562
Delta R.T. 0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

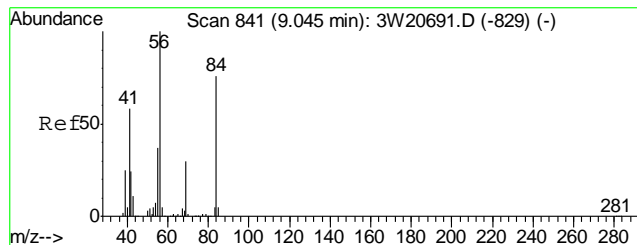
Tgt Ion: 61 Resp: 3273
Ion Ratio Lower Upper
61 100
43 762.8 682.3 722.3#
88 25.6 6.1 46.1



#46
BENZENE
Concen: 0.23 PPBV
RT: 8.88 min Scan# 773
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

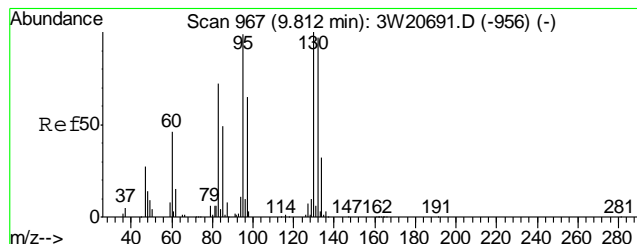
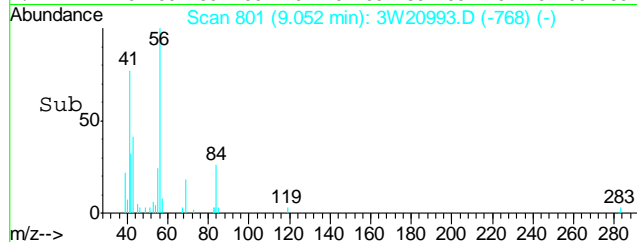
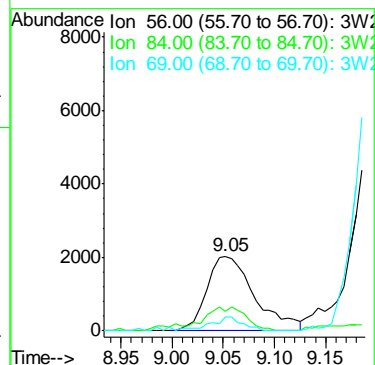
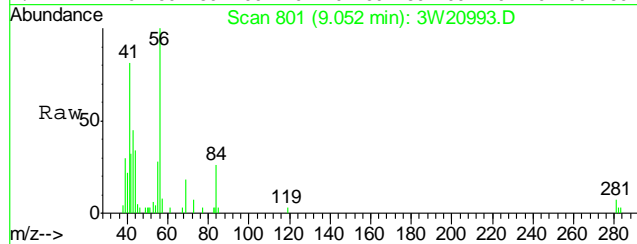
Tgt Ion: 78 Resp: 9124
Ion Ratio Lower Upper
78 100
77 22.7 3.6 43.6
52 16.7 0.0 35.5





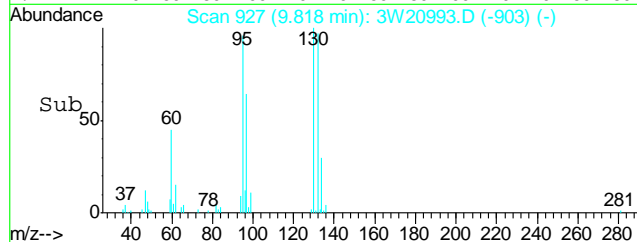
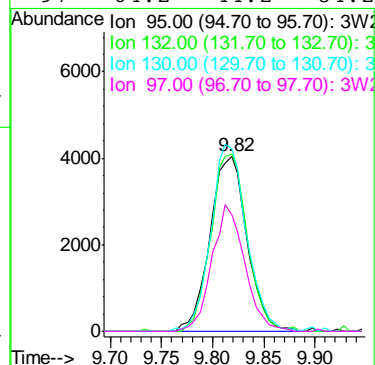
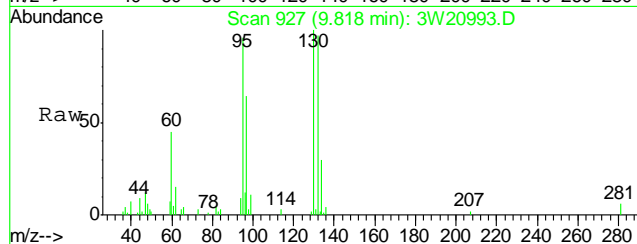
#47
CYCLOHEXANE
Concen: 0.26 PPBV
RT: 9.05 min Scan# 801
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

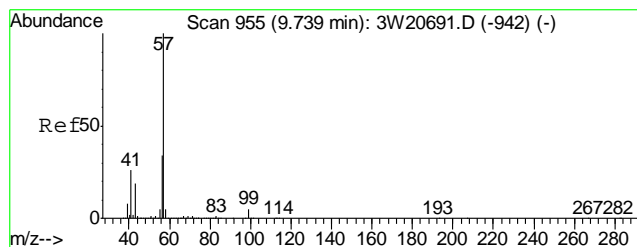
Tgt Ion	Resp	Lower	Upper
56	100		
84	31.4	80.5	120.5#
69	12.3	10.4	50.4



#49
TRICHLOROETHYLENE
Concen: 0.52 PPBV
RT: 9.82 min Scan# 927
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

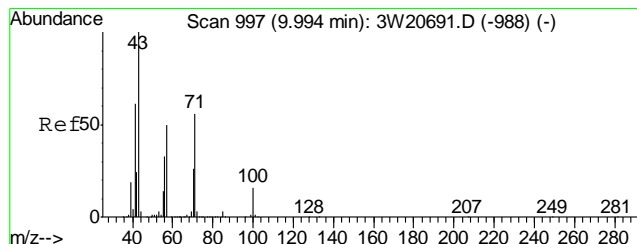
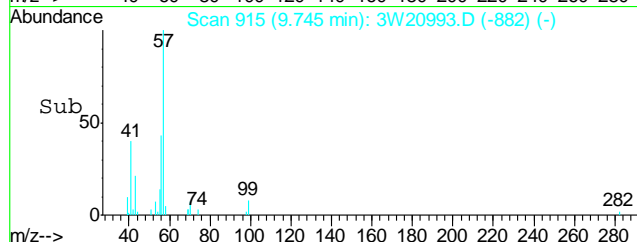
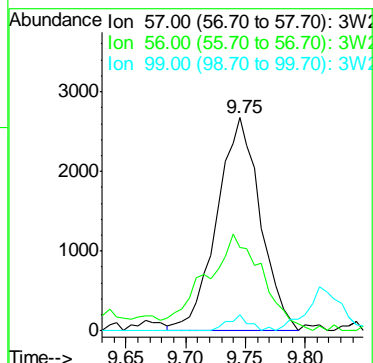
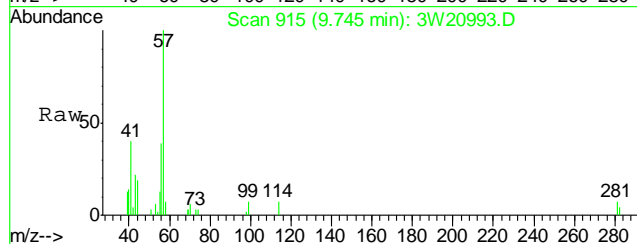
Tgt Ion	Resp	Lower	Upper
95	100		
132	99.6	83.4	123.4
130	103.0	87.1	127.1
97	64.2	44.2	84.2





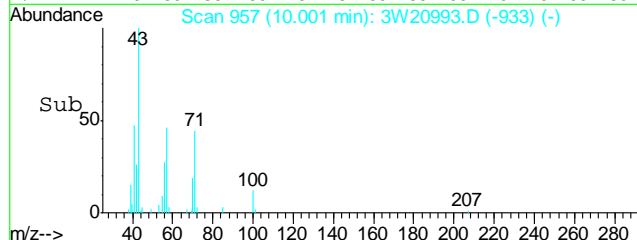
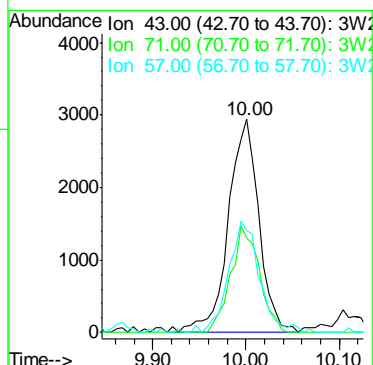
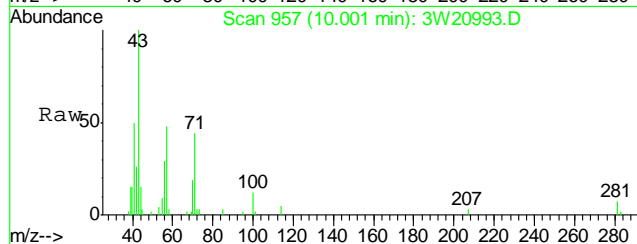
#52
2,2,4-TRIMETHYLPENTANE
Concen: 0.10 PPBV
RT: 9.75 min Scan# 915
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

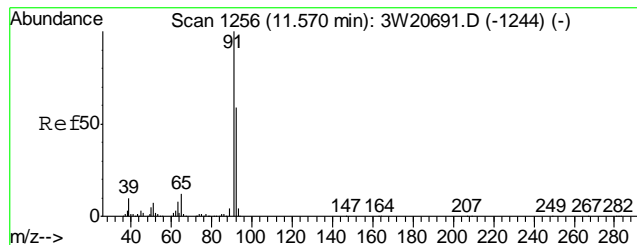
Tgt Ion	Ratio	Lower	Upper
57	100		
56	59.6	13.2	53.2
99	3.8	0.0	25.2



#54
HEPTANE
Concen: 0.24 PPBV
RT: 10.00 min Scan# 957
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

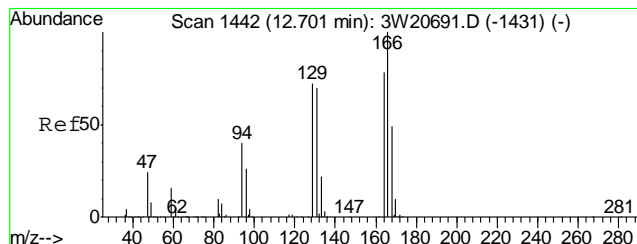
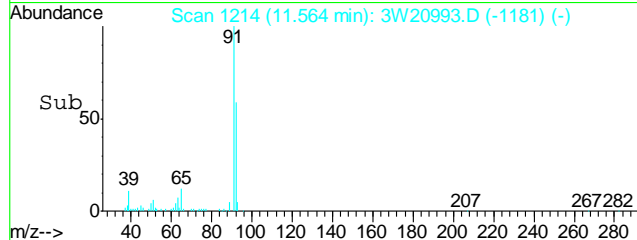
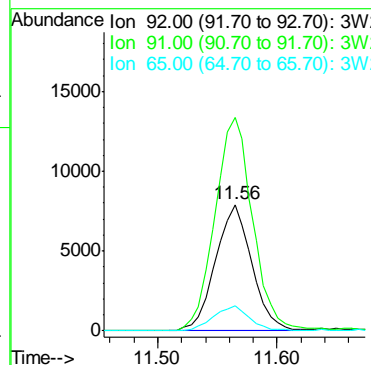
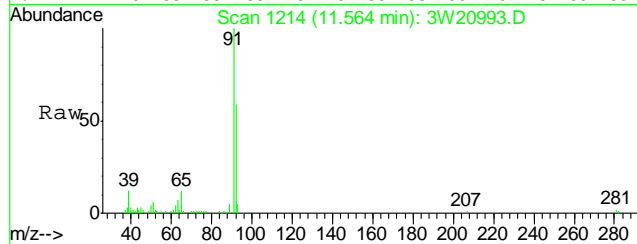
Tgt Ion	Ratio	Lower	Upper
43	100		
71	46.5	36.1	76.1
57	53.2	32.3	72.3





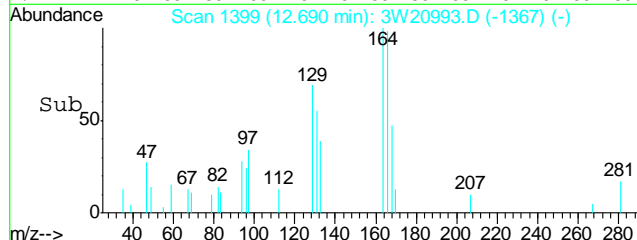
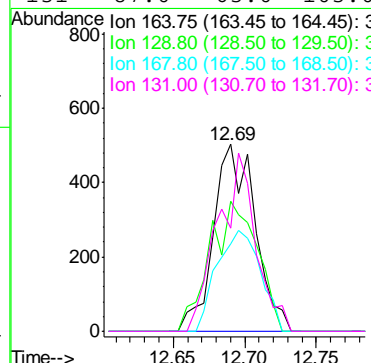
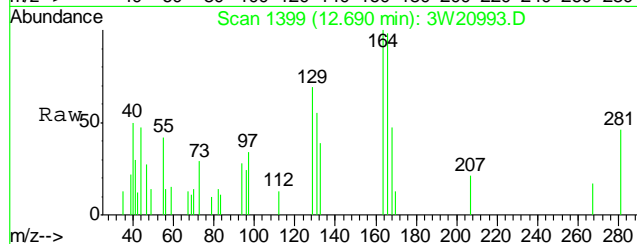
#59
TOLUENE
Concen: 0.65 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

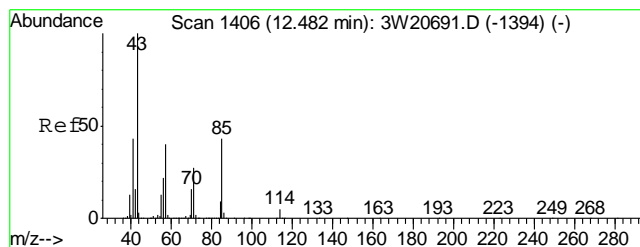
Tgt Ion:	92	Resp:	16791
Ion	Ratio	Lower	Upper
92	100		
91	176.3	148.6	188.6
65	19.5	0.0	38.0



#64
TETRACHLOROETHYLENE
Concen: 0.05 PPBV
RT: 12.69 min Scan# 1399
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

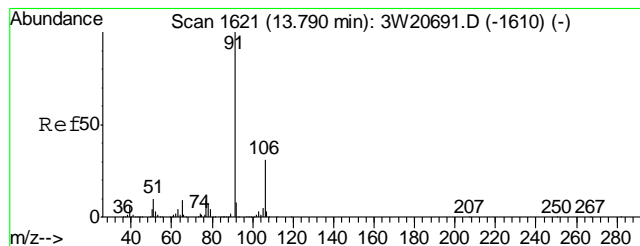
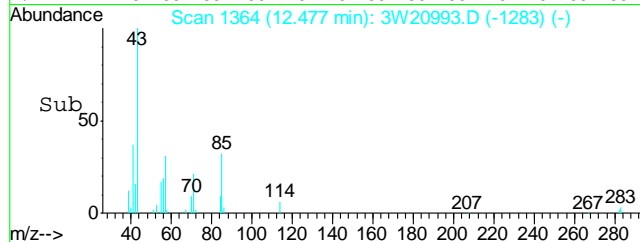
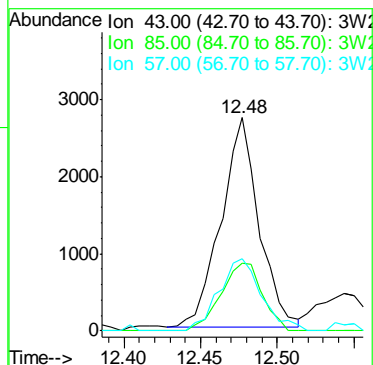
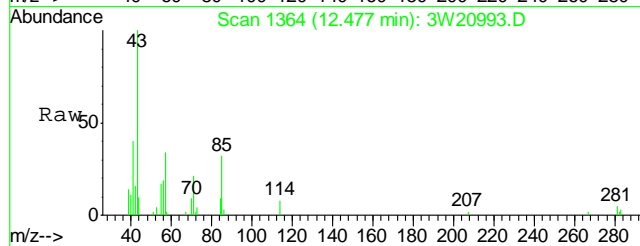
Tgt Ion:	164	Resp:	1012
Ion	Ratio	Lower	Upper
164	100		
129	79.7	65.6	105.6
168	56.6	42.3	82.3
131	87.0	63.0	103.0





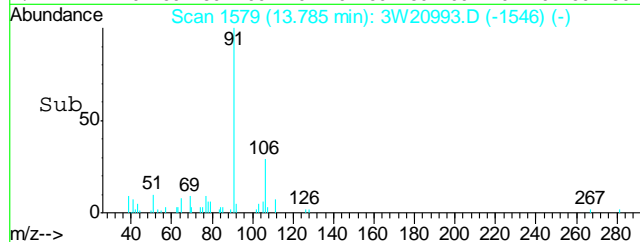
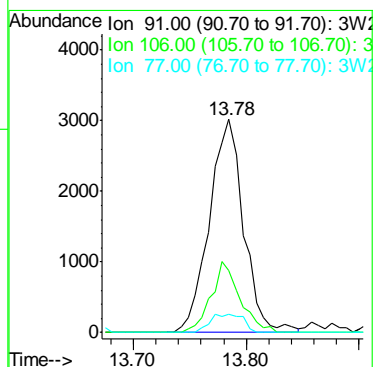
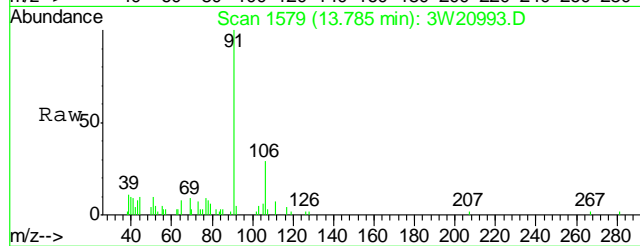
#67
OCTANE
Concen: 0.13 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

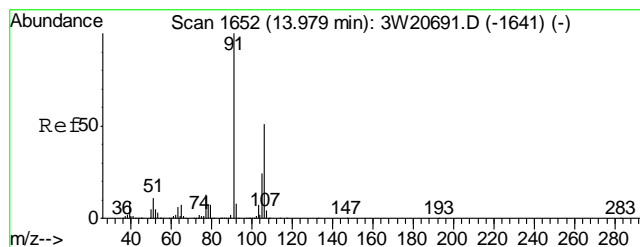
Tgt Ion	Ratio	Lower	Upper
43	100		
85	35.3	24.9	64.9
57	38.4	19.9	59.9



#70
ETHYLBENZENE
Concen: 0.13 PPBV
RT: 13.78 min Scan# 1579
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

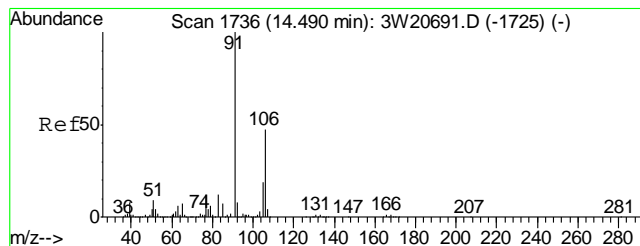
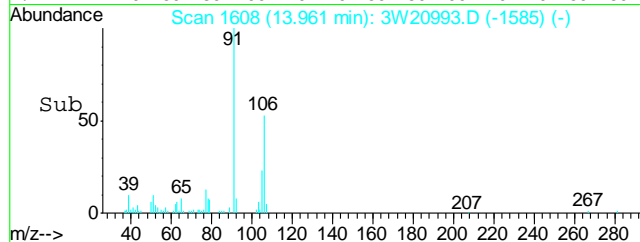
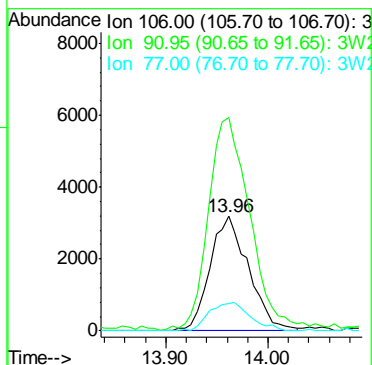
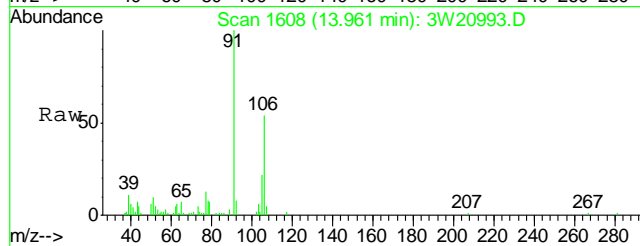
Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.9	11.5	51.5
77	8.2	0.0	28.4





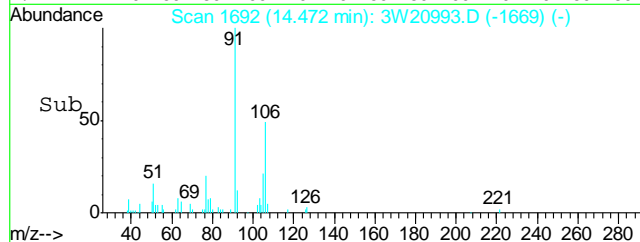
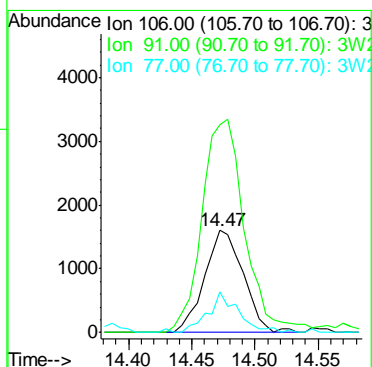
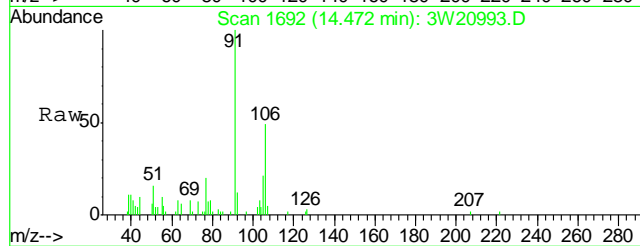
#71
m,p-XYLENE
Concen: 0.45 PPBV
RT: 13.96 min Scan# 1608
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

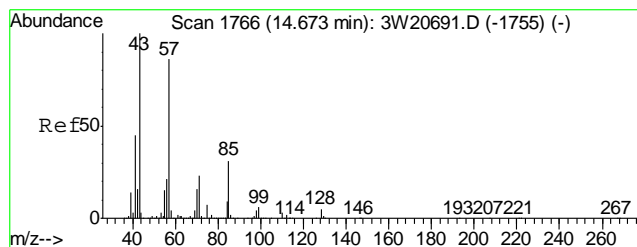
Tgt Ion	Ratio	Lower	Upper
106	100		
91	186.1	176.1	216.1
77	24.1	4.4	44.4



#72
o-XYLENE
Concen: 0.20 PPBV
RT: 14.47 min Scan# 1692
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

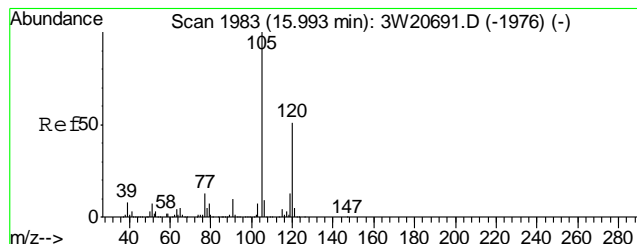
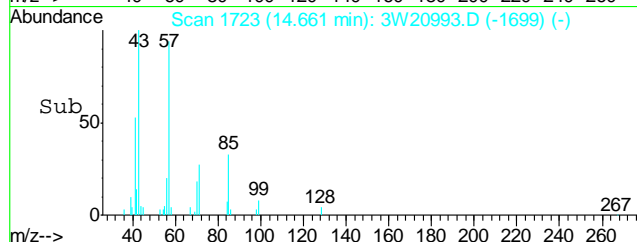
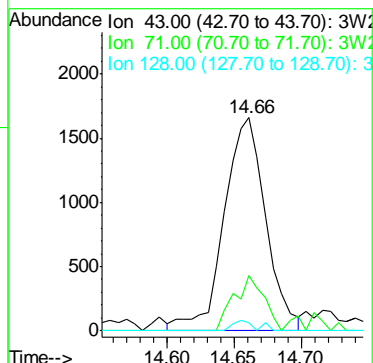
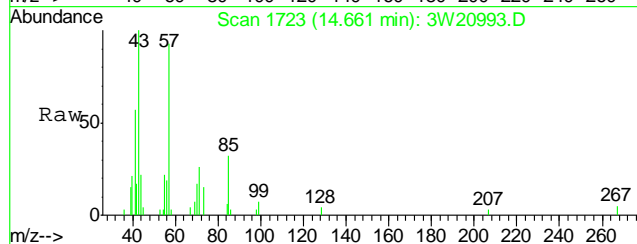
Tgt Ion	Ratio	Lower	Upper
106	100		
91	230.6	186.8	226.8#
77	31.4	3.9	43.9





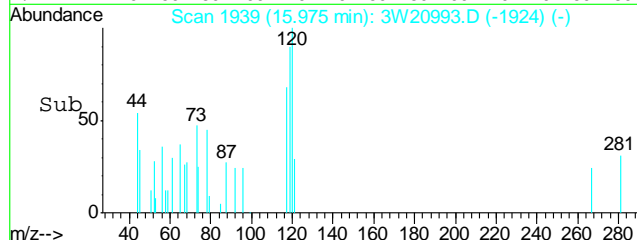
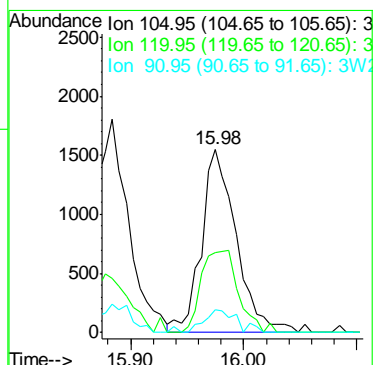
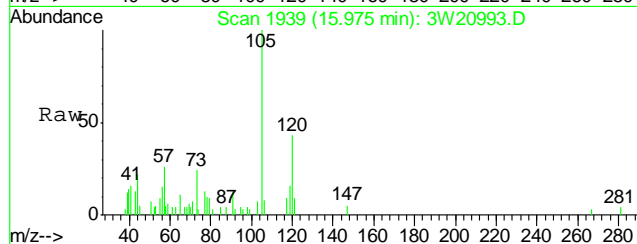
#74
NONANE
Concen: 0.12 PPBV
RT: 14.66 min Scan# 1723
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

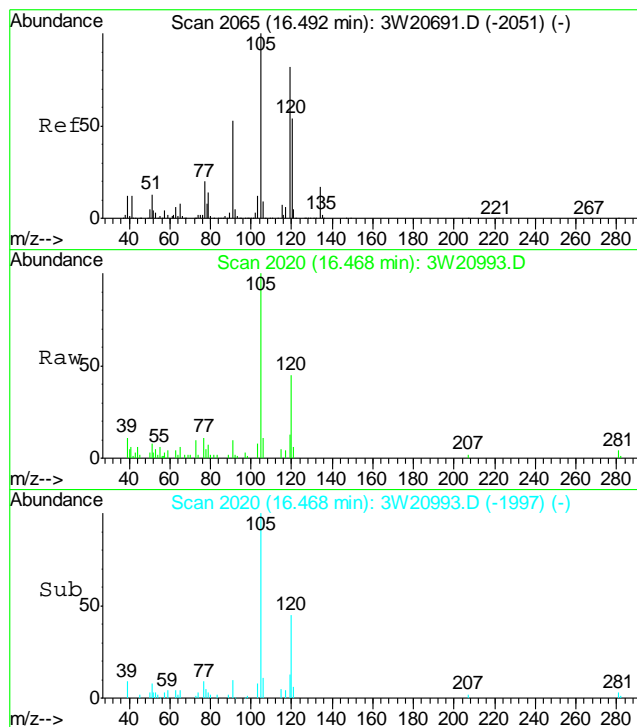
Tgt Ion	Ratio	Lower	Upper
43	100		
71	18.7	4.4	44.4
128	0.0	0.0	26.2



#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.11 PPBV
RT: 15.98 min Scan# 1939
Delta R.T. -0.01 min
Lab File: 3W20993.D
Acq: 24 Feb 2011 11:33 pm

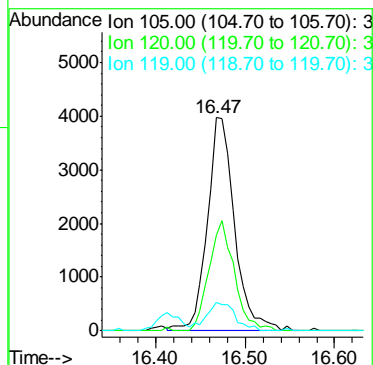
Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.9	31.4	71.4
91	11.7	0.0	29.6





#85
 1,2,4-TRIMETHYLBENZENE
 Concen: 0.32 PPBV
 RT: 16.47 min Scan# 2020
 Delta R.T. -0.01 min
 Lab File: 3W20993.D
 Acq: 24 Feb 2011 11:33 pm

Tgt Ion:	105	Resp:	8354
Ion Ratio	Lower	Upper	
105	100		
120	48.1	39.2	79.2
119	14.3	104.5	144.5#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20994.D
 Acq On : 25 Feb 2011 12:13 am
 Sample : ja68565-12
 Misc : MS8536,V3W828,100,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:11:15 2011

Vial: 13
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	134224	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	646783	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	309724	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	310625	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 183613 5.58 PPBV -0.01
 Spiked Amount 5.000 Range 65 - 128 Recovery = 111.60%

Target Compounds

Qvalue

5) DICHLORODIFLUOROMETHANE	4.38	85	5253	0.13	PPBV	96
11) n-BUTANE	4.72	43	42787	1.65	PPBV #	89
16) TRICHLOROFLUOROMETHANE	5.45	101	7030	0.18	PPBV	99
17) ISOPROPYL ALCOHOL	5.57	45	158374	7.23	PPBV	92
18) ACETONE	5.35	58	340294	64.18	PPBV	91
23) CARBON DISULFIDE	6.17	76	75645	1.60	PPBV	93
24) ETHANOL	5.10	45	168336	30.79	PPBV	98
28) FREON 113	6.12	151	2650	0.10	PPBV	96
30) TERTIARY BUTYL ALCOHOL	6.02	59	5799	0.23	PPBV #	75
33) HEXANE	7.48	57	9914	0.41	PPBV	94
36) METHYL ETHYL KETONE	7.08	72	5442	1.10	PPBV #	65
39) ETHYL ACETATE	7.60	61	1850	0.53	PPBV	97
40) CHLOROFORM	7.65	83	3062	0.11	PPBV	95
46) BENZENE	8.88	78	6328	0.16	PPBV	98
47) CYCLOHEXANE	9.04	56	7698	0.31	PPBV #	33
49) TRICHLOROETHYLENE	9.82	95	3119	0.16	PPBV	90
54) HEPTANE	10.00	43	10613	0.39	PPBV	89
57) METHYL ISOBUTYL KETONE	10.72	58	941	0.11	PPBV #	83
59) TOLUENE	11.56	92	12750	0.51	PPBV	95
63) 2-HEXANONE	11.91	58	1541	0.14	PPBV #	6
64) TETRACHLOROETHYLENE	12.70	164	3370	0.15	PPBV	96
67) OCTANE	12.48	43	10178	0.29	PPBV	89
70) ETHYLBENZENE	13.78	91	7399	0.15	PPBV	96
71) m,p-XYLENE	13.96	106	11410	0.63	PPBV	99
72) o-XYLENE	14.47	106	5703	0.33	PPBV	94
73) STYRENE	14.37	104	3263	0.16	PPBV	91
74) NONANE	14.66	43	7602	0.27	PPBV	96
82) 4-ETHYLTOLUENE	15.88	105	6708	0.19	PPBV	99
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	8380	0.28	PPBV	99
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	20453	0.79	PPBV #	28
88) p-DICHLOROBENZENE	16.75	146	6067	0.38	PPBV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20994.D M3W821.M Fri Feb 25 10:20:55 2011 MS3W

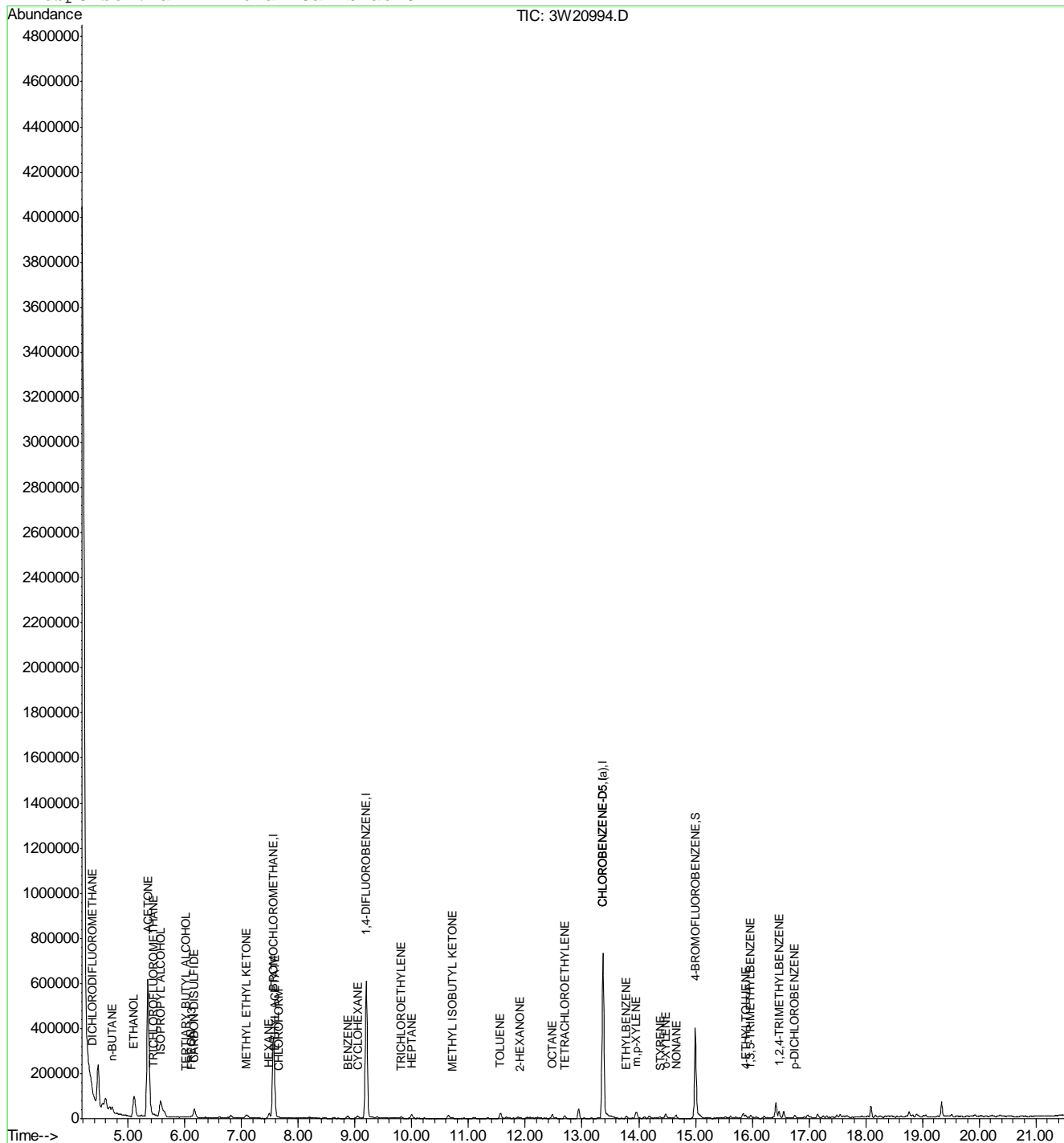
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20994.D
Acq On : 25 Feb 2011 12:13 am
Sample : ja68565-12
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:45 2011

Vial: 13
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration

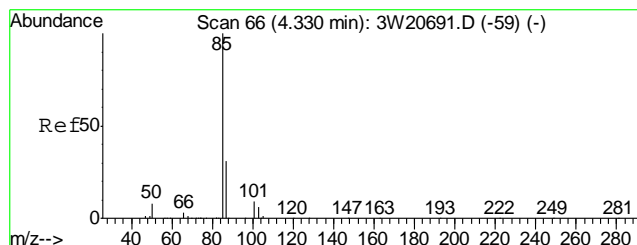


3W20994.D M3W821.M

Fri Feb 25 10:20:55 2011

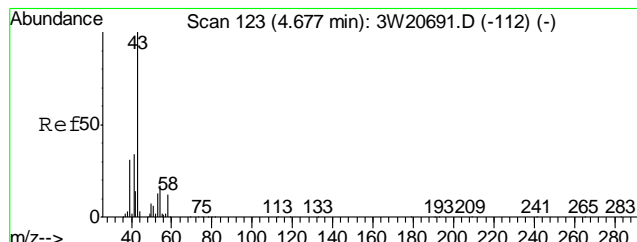
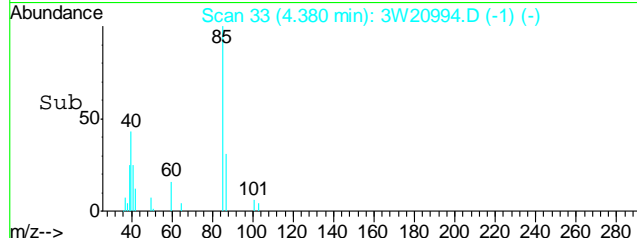
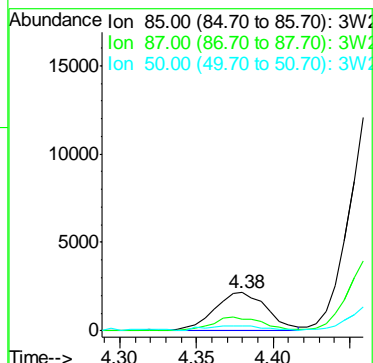
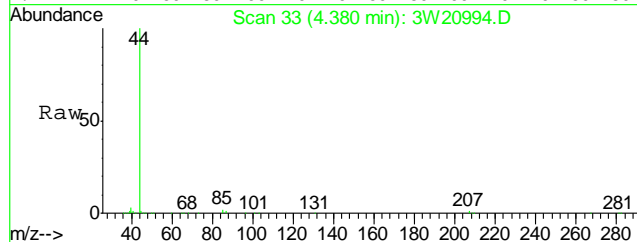
MS3W

Page 2



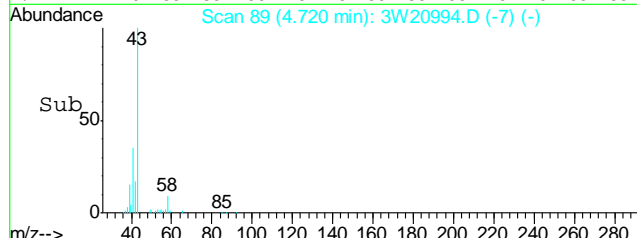
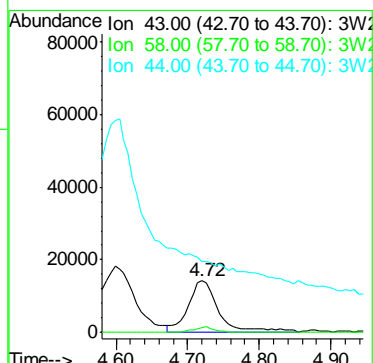
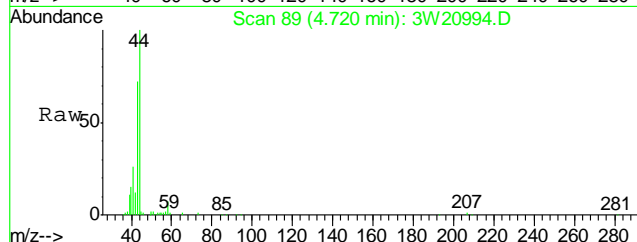
#5
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 4.38 min Scan# 33
Delta R.T. 0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

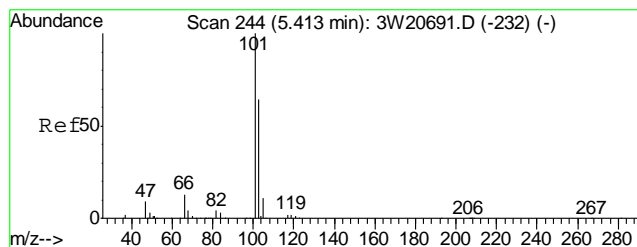
Tgt Ion:	85	Resp:	5253
Ion Ratio	Lower	Upper	
85	100		
87	33.7	12.9	52.9
50	14.5	0.0	30.6



#11
n-BUTANE
Concen: 1.65 PPBV
RT: 4.72 min Scan# 89
Delta R.T. 0.00 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

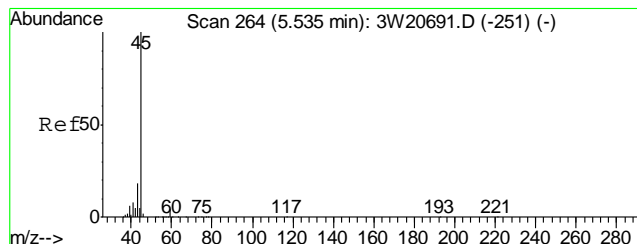
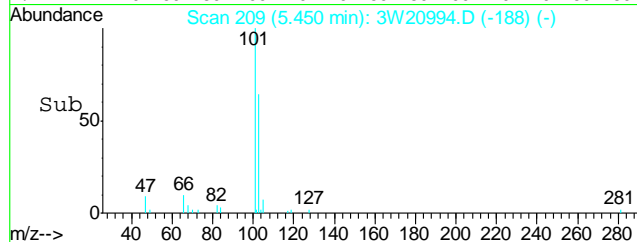
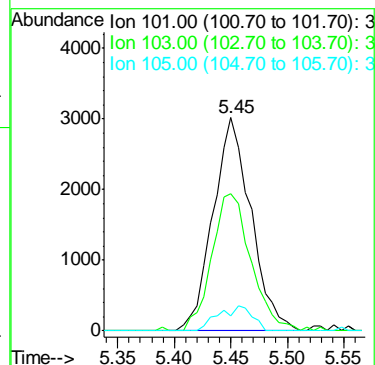
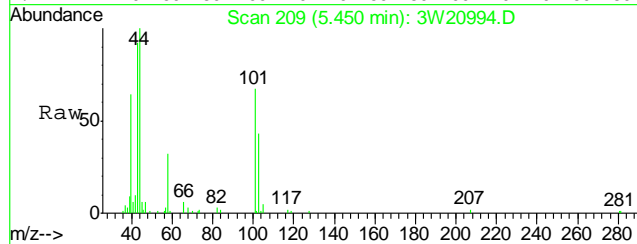
Tgt Ion:	43	Resp:	42787
Ion Ratio	Lower	Upper	
43	100		
58	7.8	0.0	32.1
44	0.0	0.0	23.9





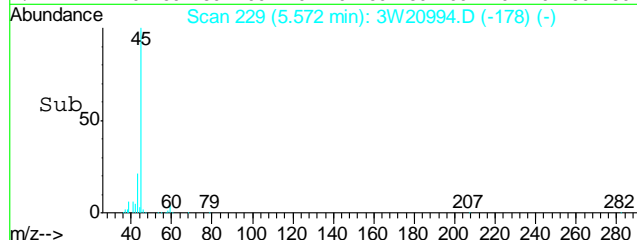
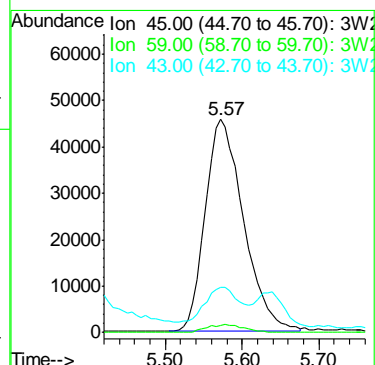
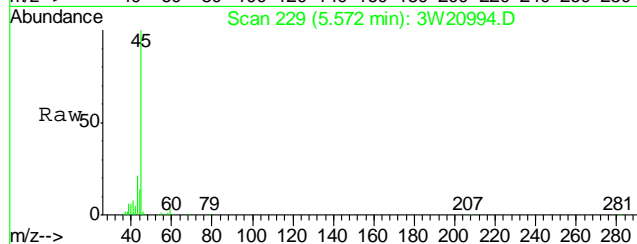
#16
 TRICHLOROFLUOROMETHANE
 Concen: 0.18 PPBV
 RT: 5.45 min Scan# 209
 Delta R.T. -0.00 min
 Lab File: 3W20994.D
 Acq: 25 Feb 2011 12:13 am

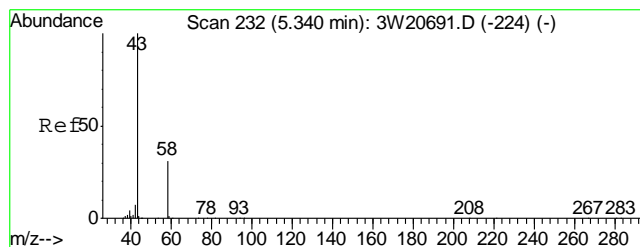
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.0	45.5	85.5
105	10.4	0.0	30.6



#17
 ISOPROPYL ALCOHOL
 Concen: 7.23 PPBV
 RT: 5.57 min Scan# 229
 Delta R.T. 0.01 min
 Lab File: 3W20994.D
 Acq: 25 Feb 2011 12:13 am

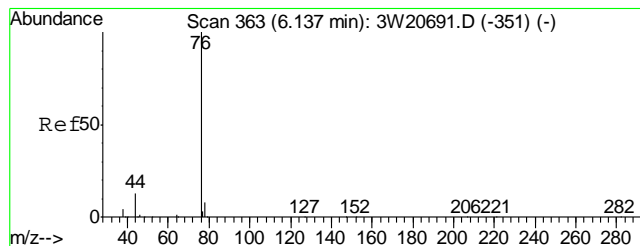
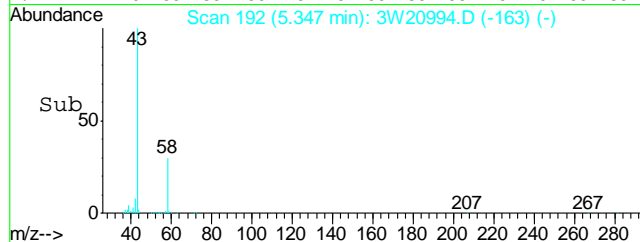
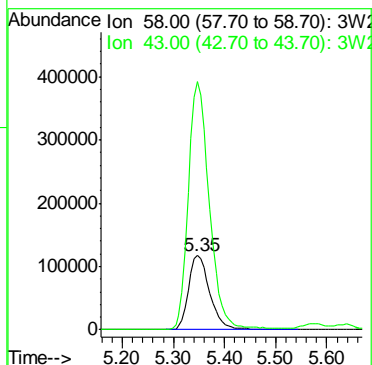
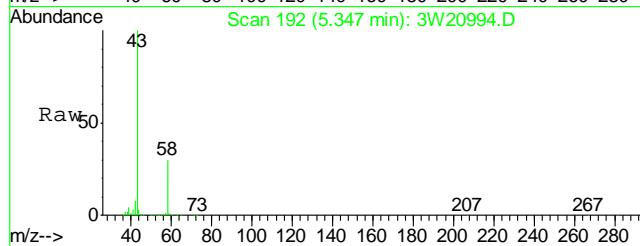
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.5	0.0	23.7
43	21.4	0.0	37.4





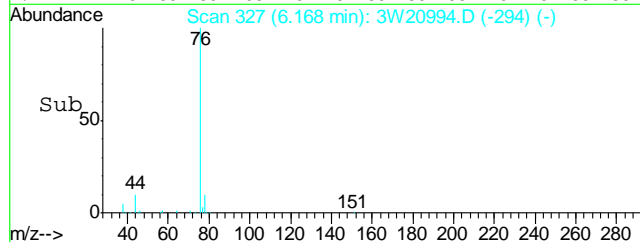
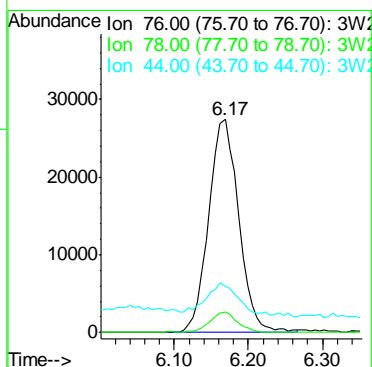
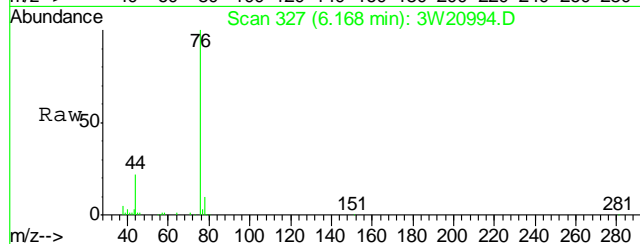
#18
 ACETONE
 Concen: 64.18 PPBV
 RT: 5.35 min Scan# 192
 Delta R.T. -0.02 min
 Lab File: 3W20994.D
 Acq: 25 Feb 2011 12:13 am

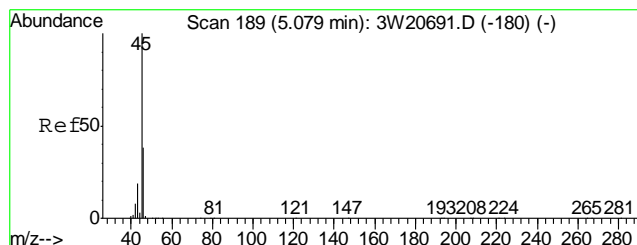
Tgt Ion: 58 Resp: 340294
 Ion Ratio Lower Upper
 58 100
 43 327.9 289.1 329.1



#23
 CARBON DISULFIDE
 Concen: 1.60 PPBV
 RT: 6.17 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: 3W20994.D
 Acq: 25 Feb 2011 12:13 am

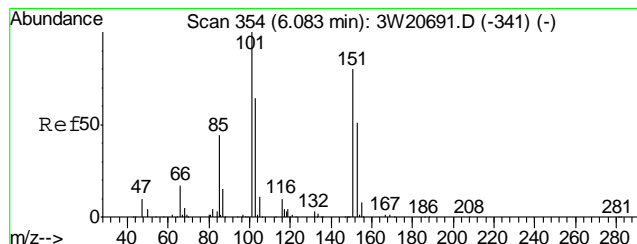
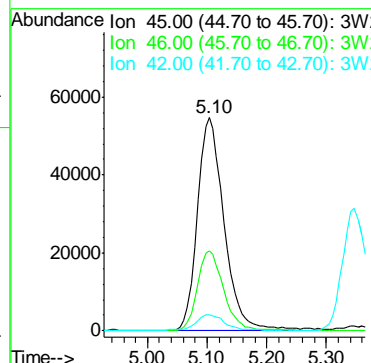
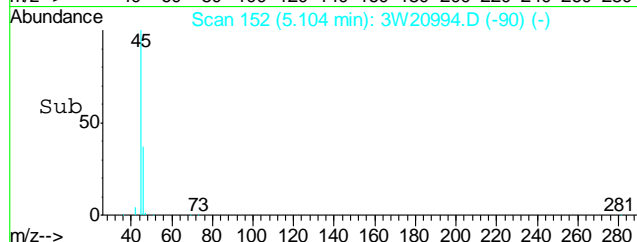
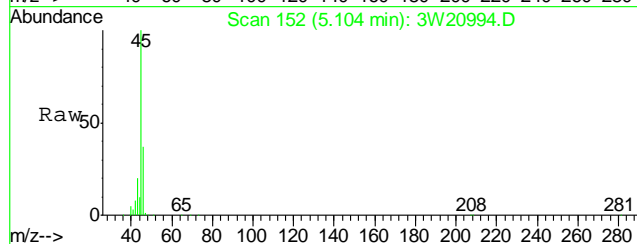
Tgt Ion: 76 Resp: 75645
 Ion Ratio Lower Upper
 76 100
 78 9.1 0.0 30.5
 44 15.2 0.0 31.7





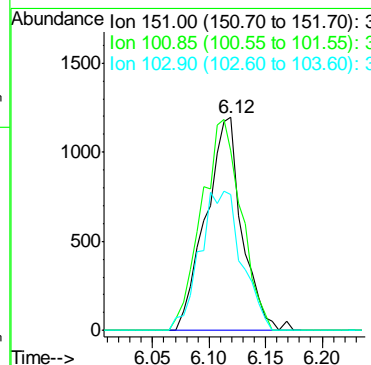
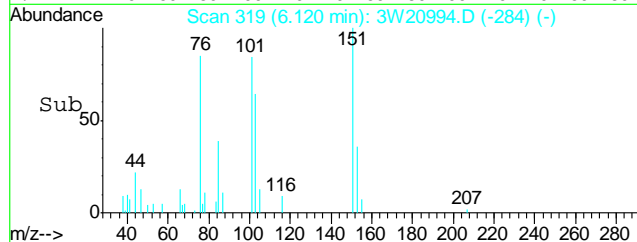
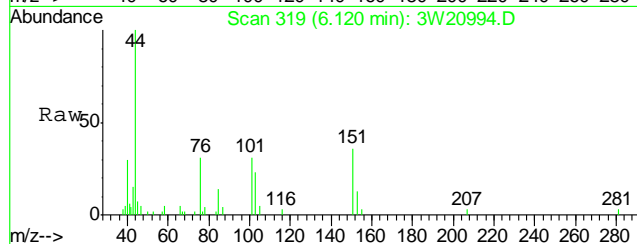
#24
 ETHANOL
 Concen: 30.79 PPBV
 RT: 5.10 min Scan# 152
 Delta R.T. -0.01 min
 Lab File: 3W20994.D
 Acq: 25 Feb 2011 12:13 am

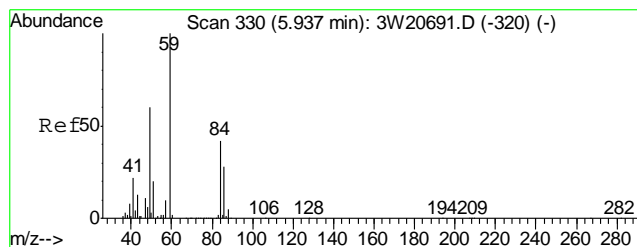
Tgt Ion:	45	Resp:	168336
Ion Ratio	Lower	Upper	
45	100		
46	37.0	18.2	58.2
42	7.9	0.0	27.7



#28
 FREON 113
 Concen: 0.10 PPBV
 RT: 6.12 min Scan# 319
 Delta R.T. 0.01 min
 Lab File: 3W20994.D
 Acq: 25 Feb 2011 12:13 am

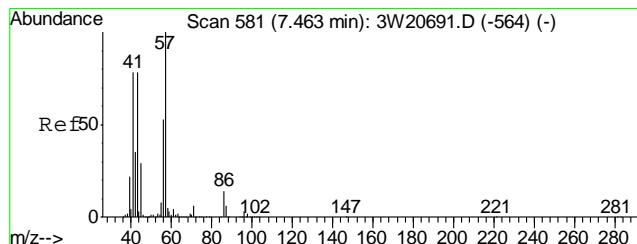
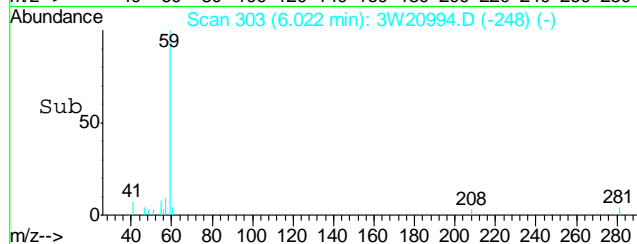
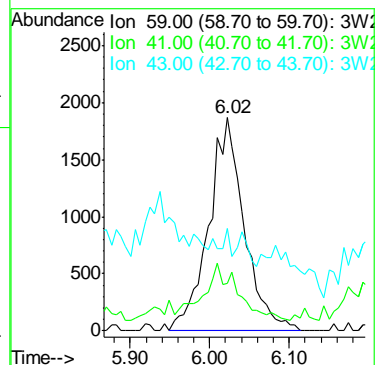
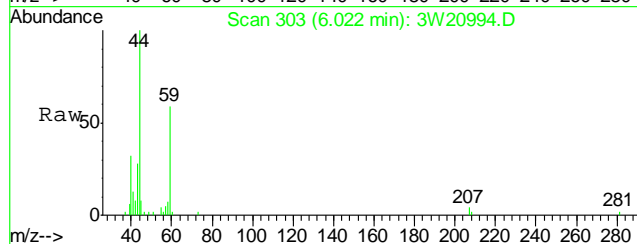
Tgt Ion:	151	Resp:	2650
Ion Ratio	Lower	Upper	
151	100		
101	109.3	95.5	135.5
103	75.7	54.9	94.9





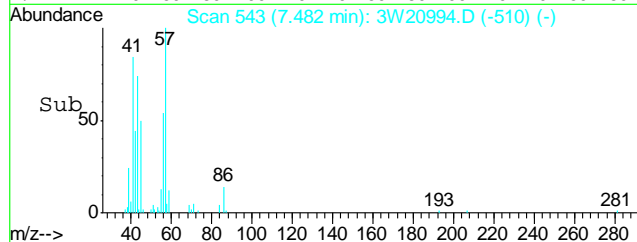
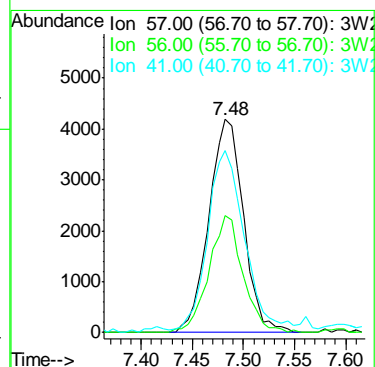
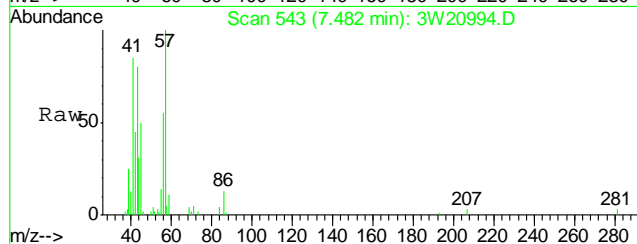
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.23 PPBV
RT: 6.02 min Scan# 303
Delta R.T. 0.03 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

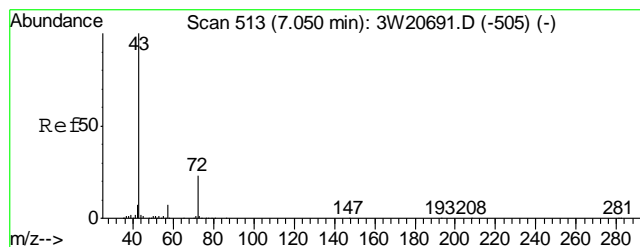
Tgt Ion:	59	Resp:	5799
Ion Ratio	Lower	Upper	
59	100		
41	26.7	0.0	38.0
43	0.0	0.0	33.0



#33
HEXANE
Concen: 0.41 PPBV
RT: 7.48 min Scan# 543
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

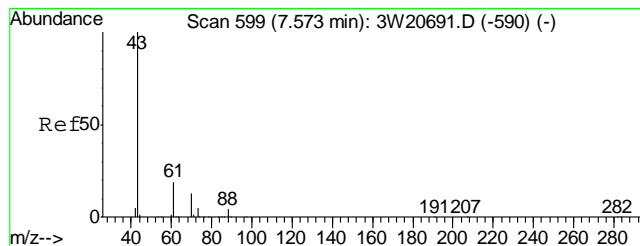
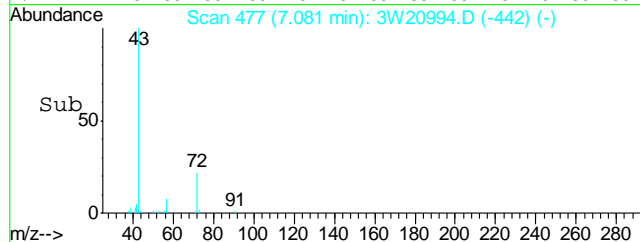
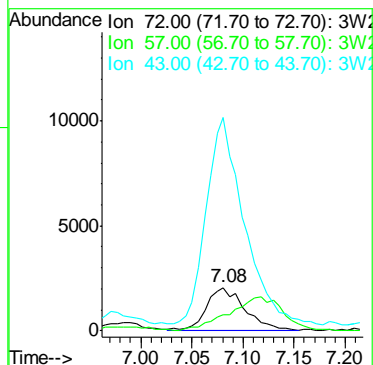
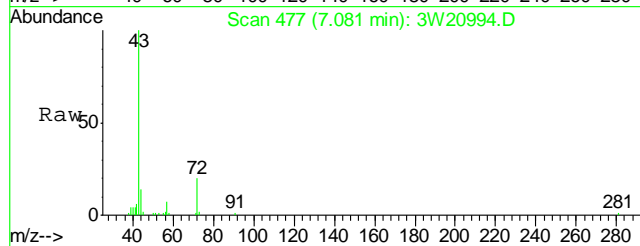
Tgt Ion:	57	Resp:	9914
Ion Ratio	Lower	Upper	
57	100		
56	53.6	30.5	70.5
41	91.9	79.2	119.2





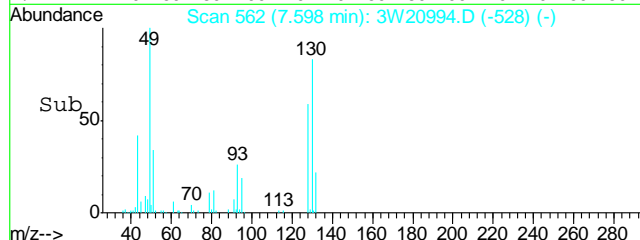
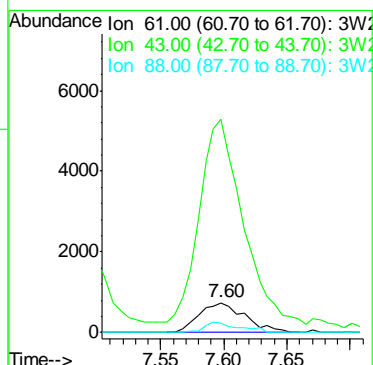
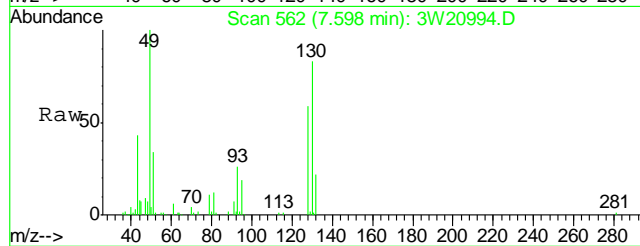
#36
METHYL ETHYL KETONE
Concen: 1.10 PPBV
RT: 7.08 min Scan# 477
Delta R.T. 0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

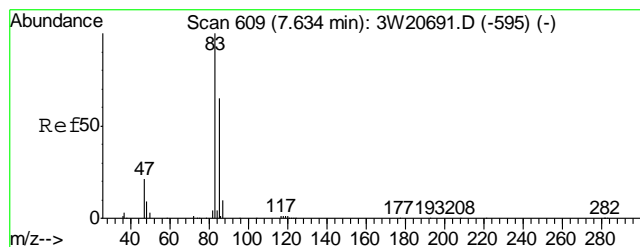
Tgt Ion	Ratio	Lower	Upper
72	100		
57	36.0	11.3	51.3
43	492.1	384.1	424.1



#39
ETHYL ACETATE
Concen: 0.53 PPBV
RT: 7.60 min Scan# 562
Delta R.T. 0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

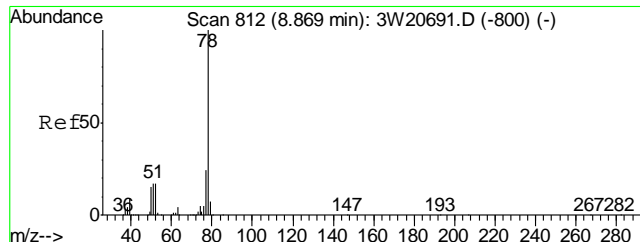
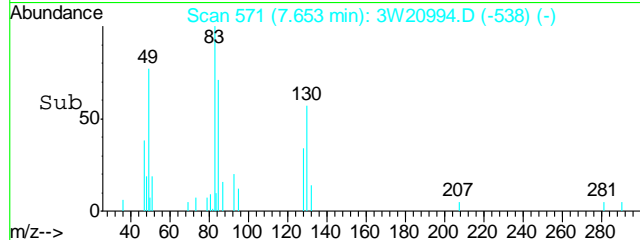
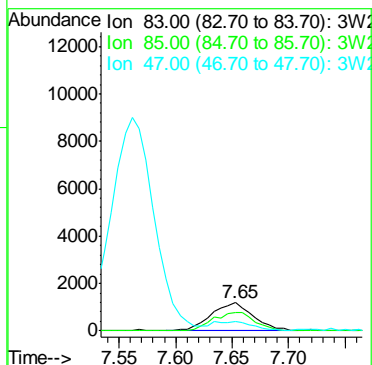
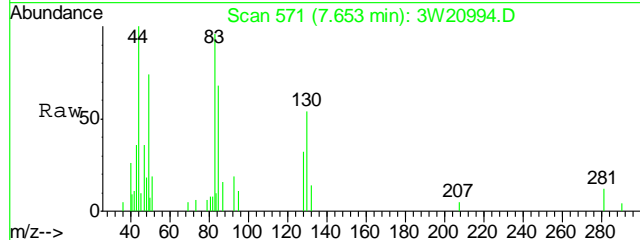
Tgt Ion	Ratio	Lower	Upper
61	100		
43	693.3	682.3	722.3
88	26.3	6.1	46.1





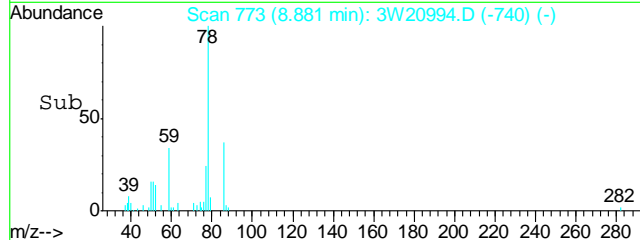
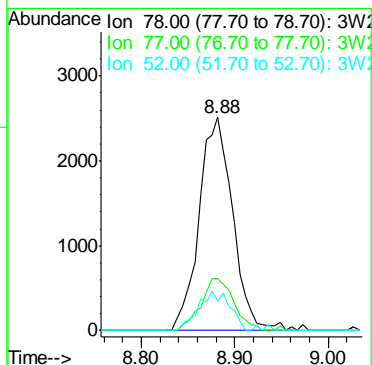
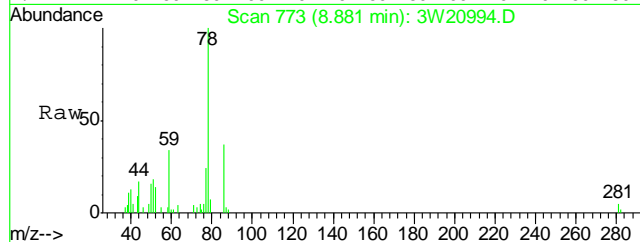
#40
CHLOROFORM
Concen: 0.11 PPBV
RT: 7.65 min Scan# 571
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

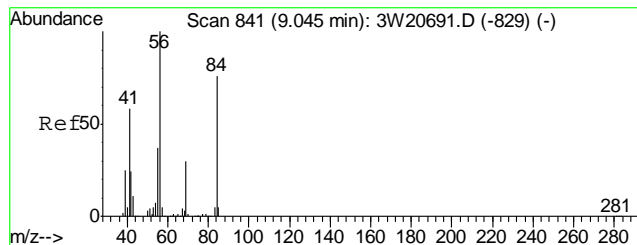
Tgt Ion:	83	Resp:	3062
Ion Ratio	Lower	Upper	
83	100		
85	63.8	44.4	84.4
47	30.3	1.8	41.8



#46
BENZENE
Concen: 0.16 PPBV
RT: 8.88 min Scan# 773
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

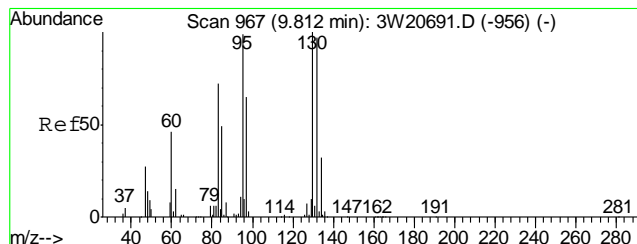
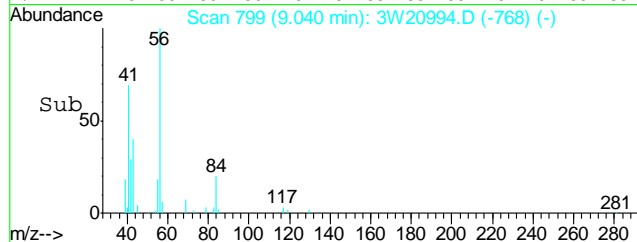
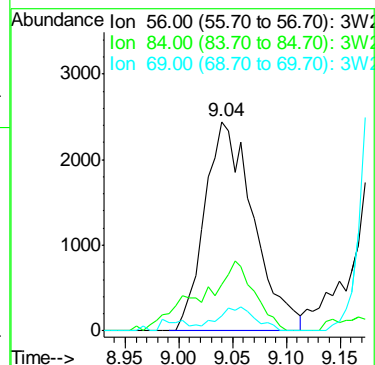
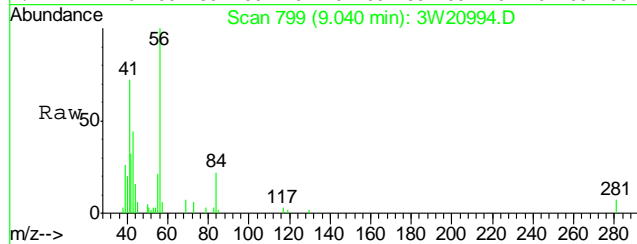
Tgt Ion:	78	Resp:	6328
Ion Ratio	Lower	Upper	
78	100		
77	23.9	3.6	43.6
52	17.2	0.0	35.5





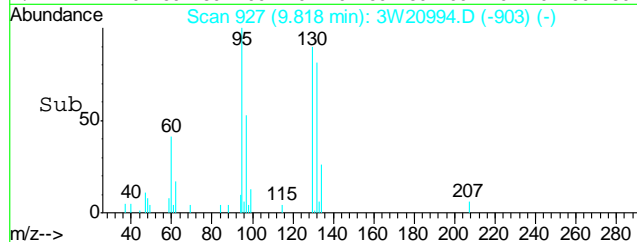
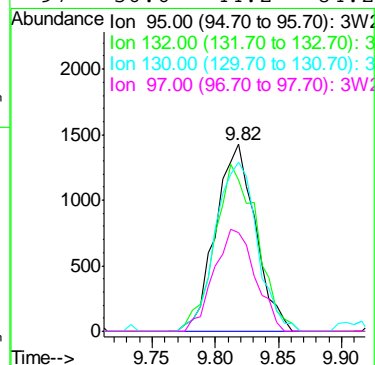
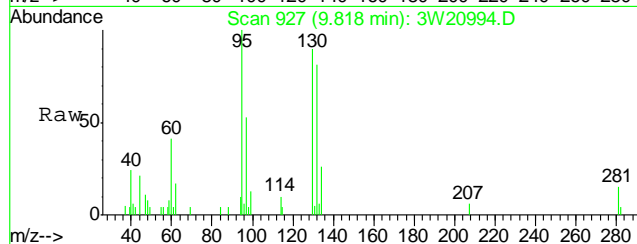
#47
CYCLOHEXANE
Concen: 0.31 PPBV
RT: 9.04 min Scan# 799
Delta R.T. -0.02 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

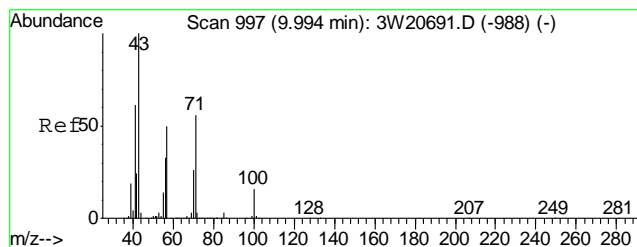
Tgt Ion	Ratio	Lower	Upper
56	100		
84	25.7	80.5	120.5#
69	8.5	10.4	50.4#



#49
TRICHLOROETHYLENE
Concen: 0.16 PPBV
RT: 9.82 min Scan# 927
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

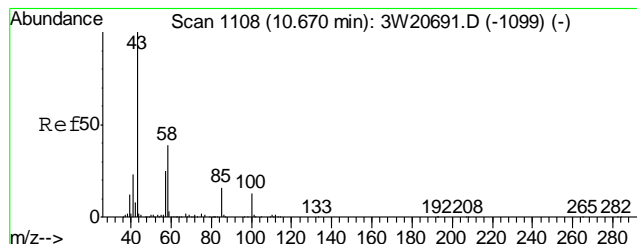
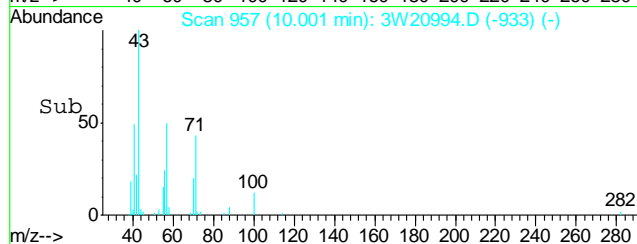
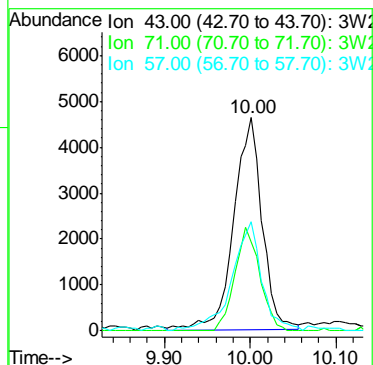
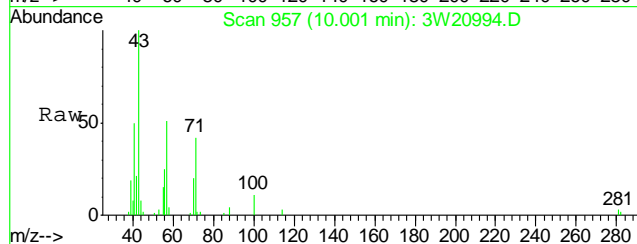
Tgt Ion	Ratio	Lower	Upper
95	100		
132	95.4	83.4	123.4
130	94.5	87.1	127.1
97	56.6	44.2	84.2





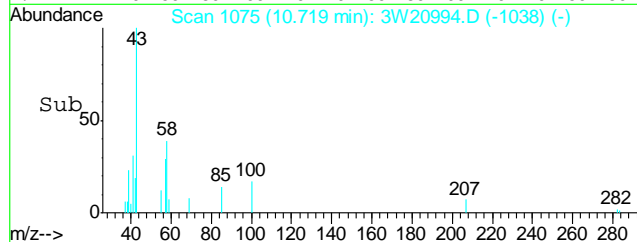
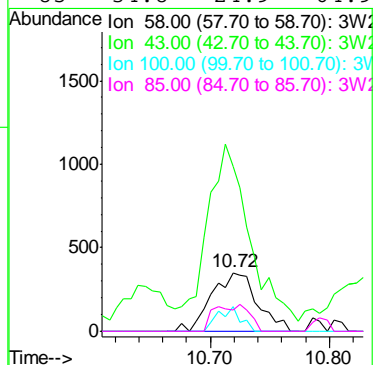
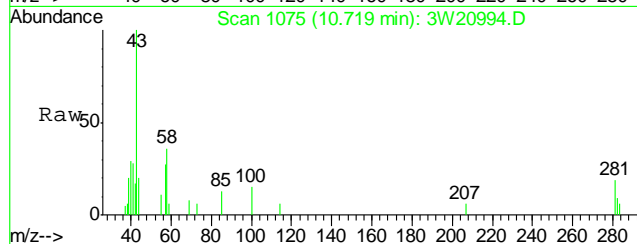
#54
HEPTANE
Concen: 0.39 PPBV
RT: 10.00 min Scan# 957
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

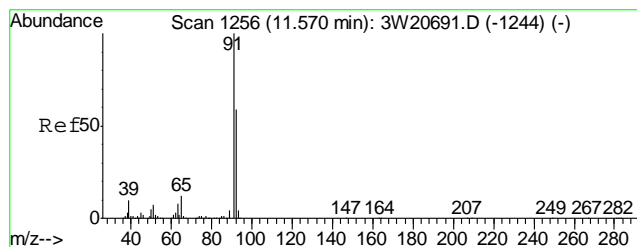
Tgt Ion	Ratio	Lower	Upper
43	100		
71	42.9	36.1	76.1
57	54.4	32.3	72.3



#57
METHYL ISOBUTYL KETONE
Concen: 0.11 PPBV
RT: 10.72 min Scan# 1075
Delta R.T. 0.05 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

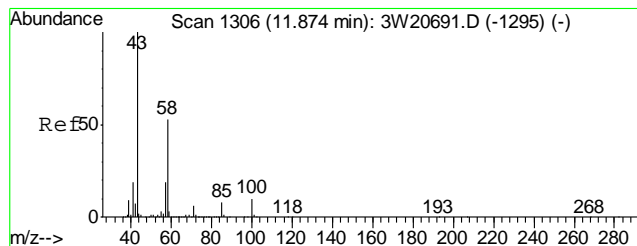
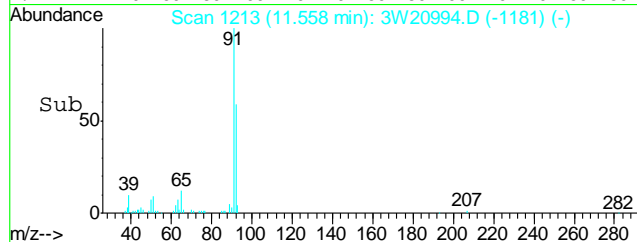
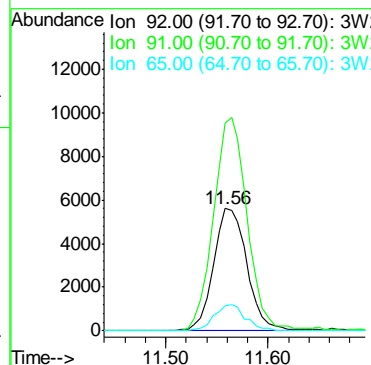
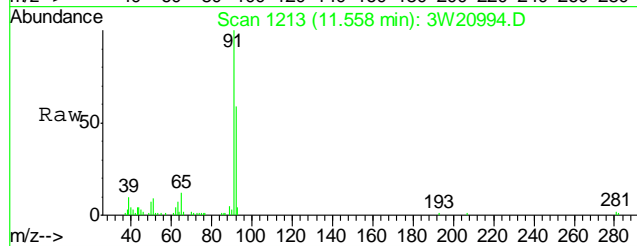
Tgt Ion	Ratio	Lower	Upper
58	100		
43	279.1	229.3	269.3#
100	20.9	14.1	54.1
85	34.8	24.9	64.9





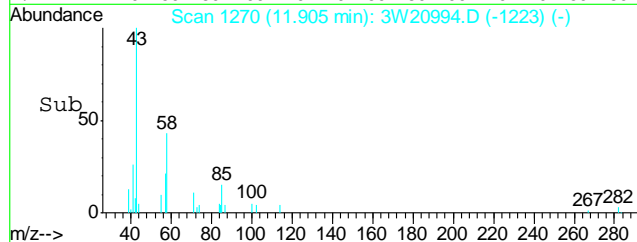
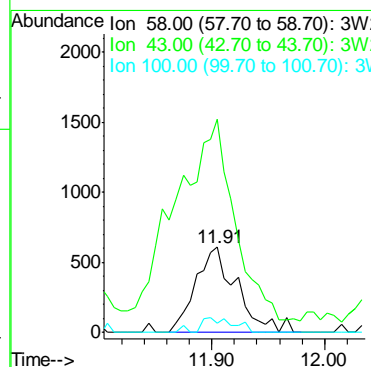
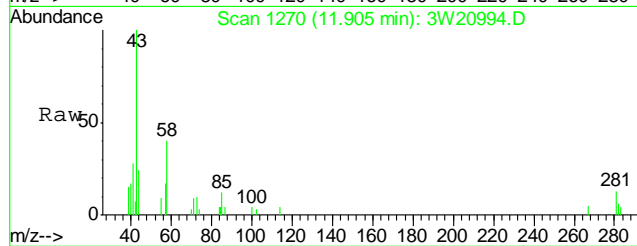
#59
TOLUENE
Concen: 0.51 PPBV
RT: 11.56 min Scan# 1213
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

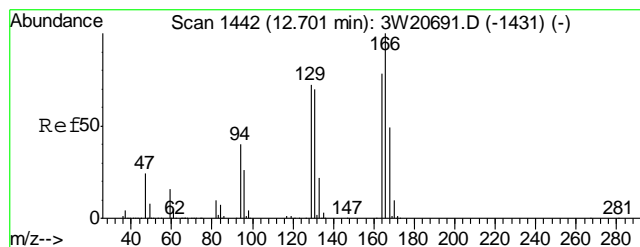
Tgt Ion:	92	Resp:	12750
Ion	Ratio	Lower	Upper
92	100		
91	175.0	148.6	188.6
65	20.1	0.0	38.0



#63
2-HEXANONE
Concen: 0.14 PPBV
RT: 11.91 min Scan# 1270
Delta R.T. 0.04 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

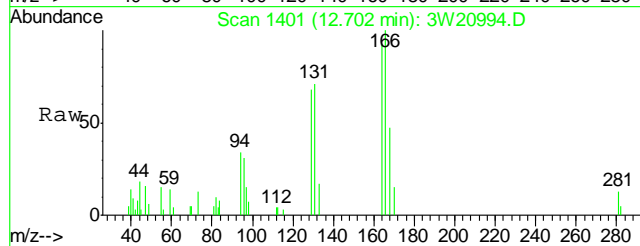
Tgt Ion:	58	Resp:	1541
Ion	Ratio	Lower	Upper
58	100		
43	335.2	166.4	206.4#
100	12.8	0.0	39.6





#64
TETRACHLOROETHYLENE
Concen: 0.15 PPBV
RT: 12.70 min Scan# 1401
Delta R.T. -0.00 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

Tgt Ion:	164	Resp:	3370
Ion Ratio	Lower	Upper	
164	100		
129	80.9	65.6	105.6
168	57.5	42.3	82.3
131	83.4	63.0	103.0



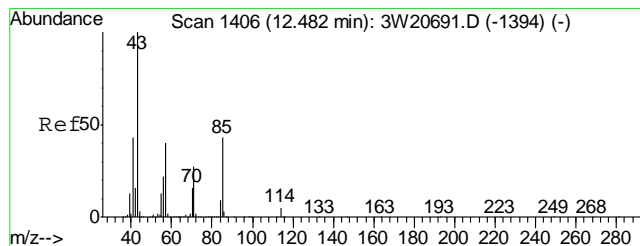
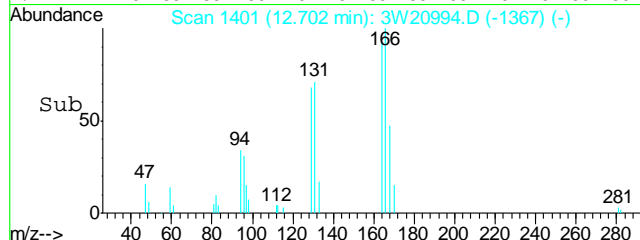
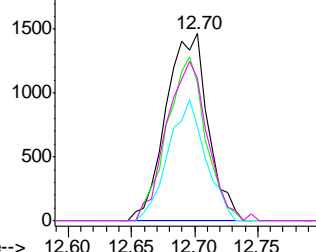
Abundance

Ion 163.75 (163.45 to 164.45): 3

Ion 128.80 (128.50 to 129.50): 3

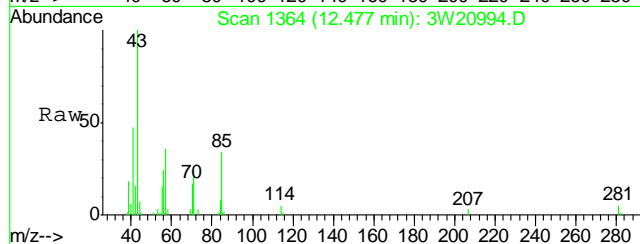
Ion 167.80 (167.50 to 168.50): 3

Ion 131.00 (130.70 to 131.70): 3



#67
OCTANE
Concen: 0.29 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

Tgt Ion:	43	Resp:	10178
Ion Ratio	Lower	Upper	
43	100		
85	34.4	24.9	64.9
57	36.1	19.9	59.9

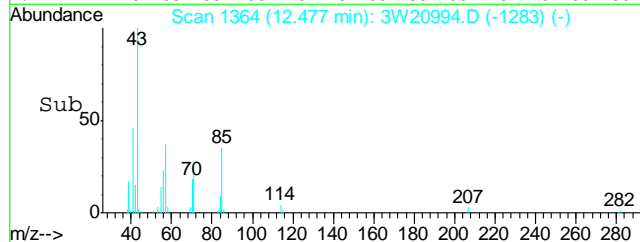
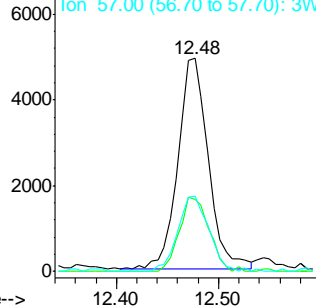


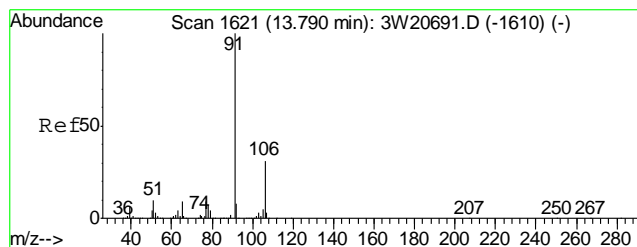
Abundance

Ion 43.00 (42.70 to 43.70): 3W2

Ion 85.00 (84.70 to 85.70): 3W2

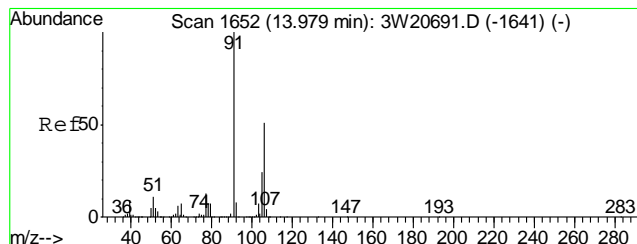
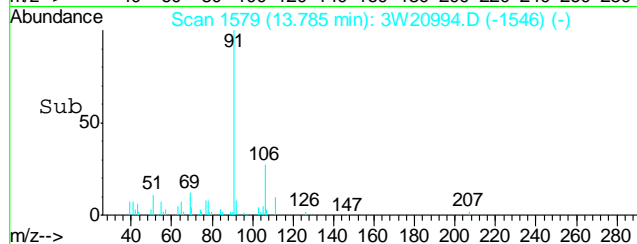
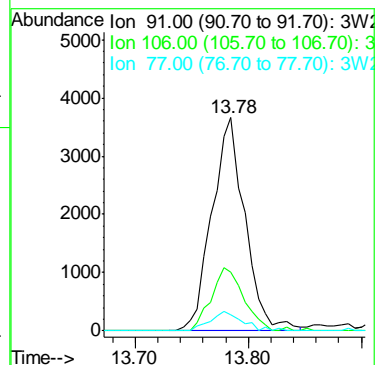
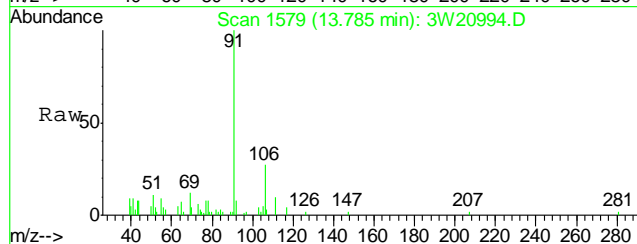
Ion 57.00 (56.70 to 57.70): 3W2





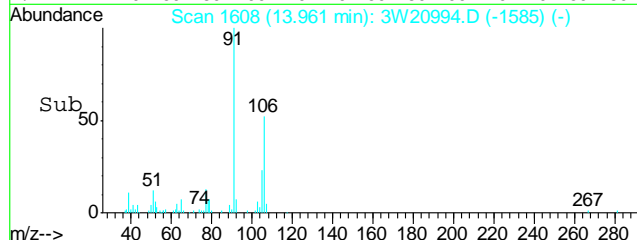
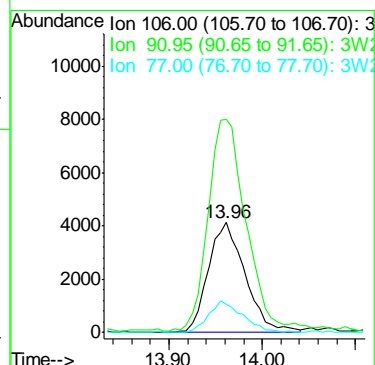
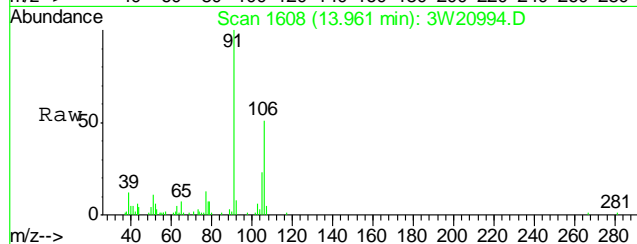
#70
ETHYLBENZENE
Concen: 0.15 PPBV
RT: 13.78 min Scan# 1579
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

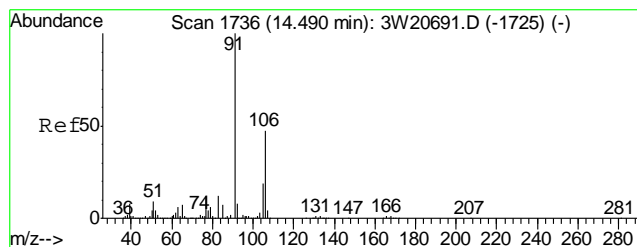
Tgt Ion:	91	Resp:	7399
Ion Ratio	Lower	Upper	
91	100		
106	28.7	11.5	51.5
77	8.9	0.0	28.4



#71
m,p-XYLENE
Concen: 0.63 PPBV
RT: 13.96 min Scan# 1608
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

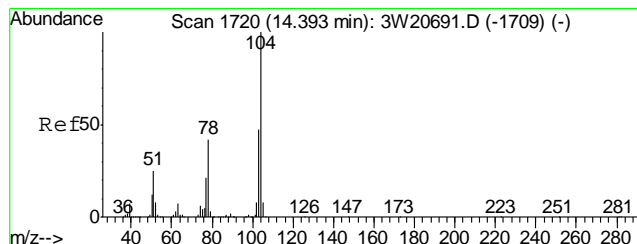
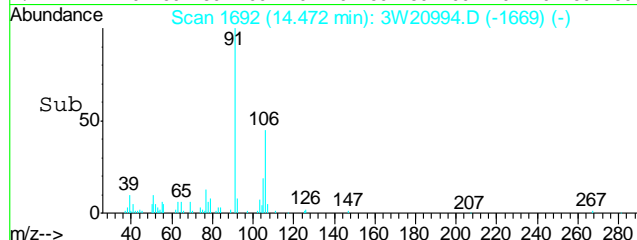
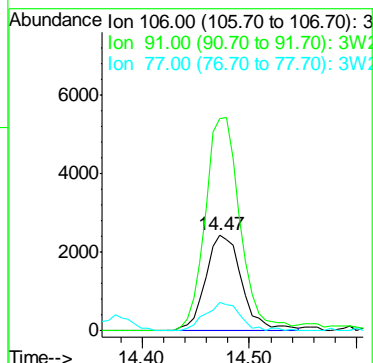
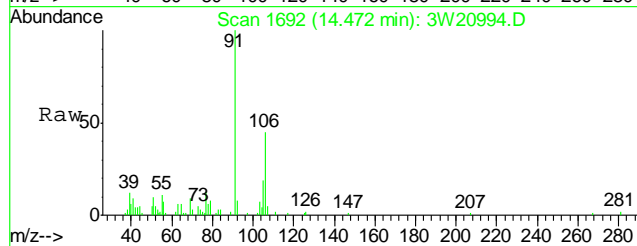
Tgt Ion:	106	Resp:	11410
Ion Ratio	Lower	Upper	
106	100		
91	194.2	176.1	216.1
77	25.4	4.4	44.4





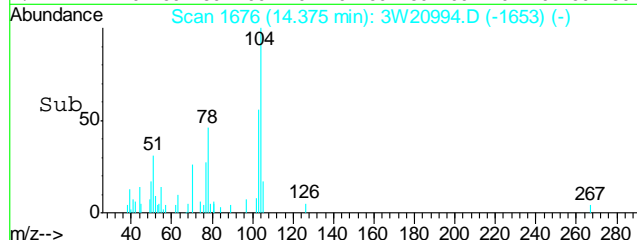
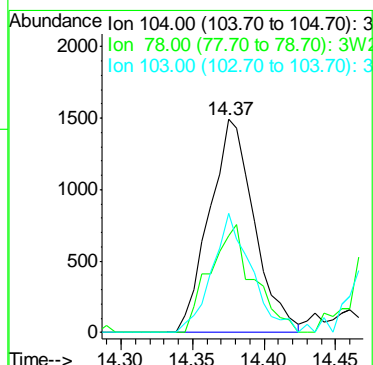
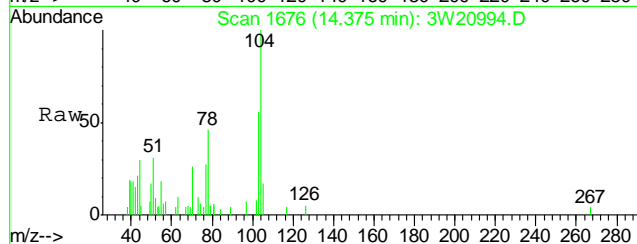
#72
o-XYLENE
Concen: 0.33 PPBV
RT: 14.47 min Scan# 1692
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

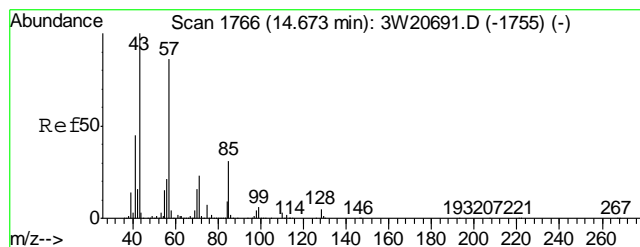
Tgt Ion	Ratio	Lower	Upper
106	100		
91	215.4	186.8	226.8
77	28.5	3.9	43.9



#73
STYRENE
Concen: 0.16 PPBV
RT: 14.37 min Scan# 1676
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

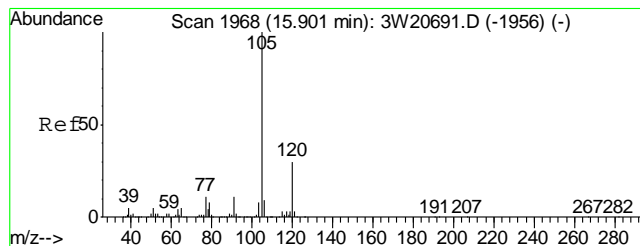
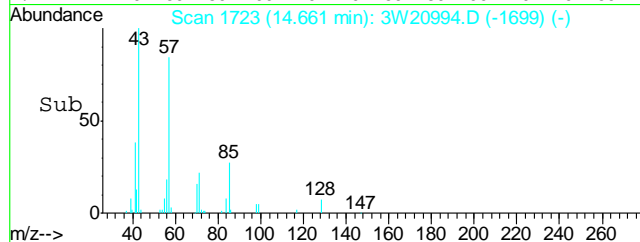
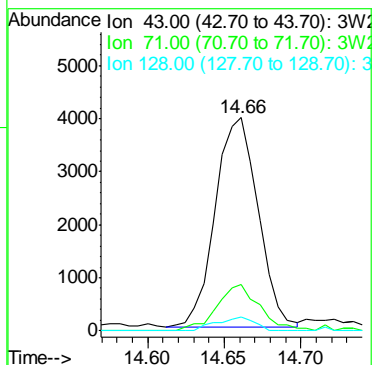
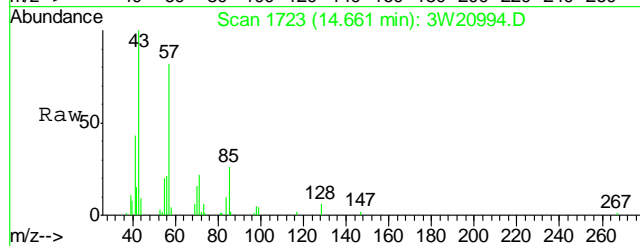
Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.5	19.0	59.0
103	48.7	27.2	67.2





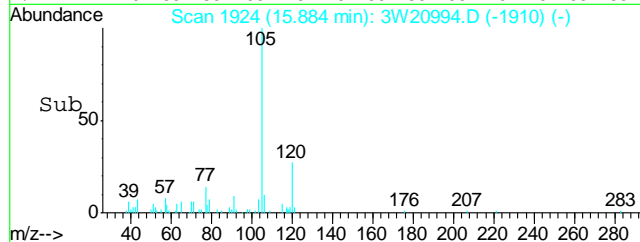
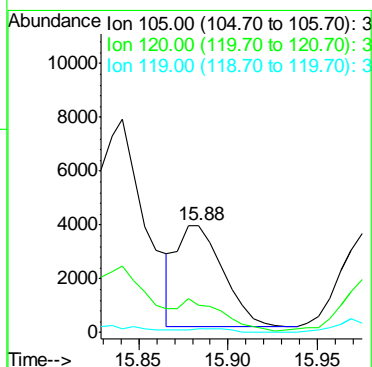
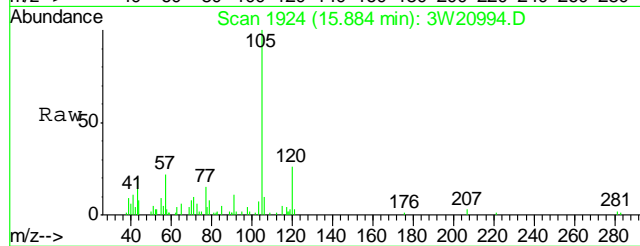
#74
NONANE
Concen: 0.27 PPBV
RT: 14.66 min Scan# 1723
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

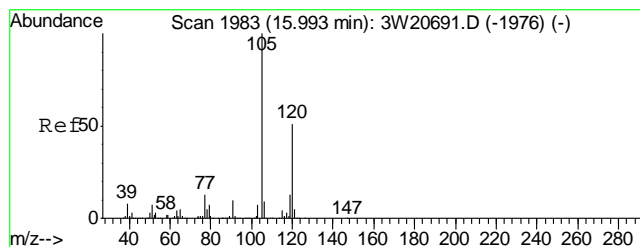
Tgt Ion	Ratio	Lower	Upper
43	100		
71	22.2	4.4	44.4
128	5.9	0.0	26.2



#82
4-ETHYLTOLUENE
Concen: 0.19 PPBV
RT: 15.88 min Scan# 1924
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

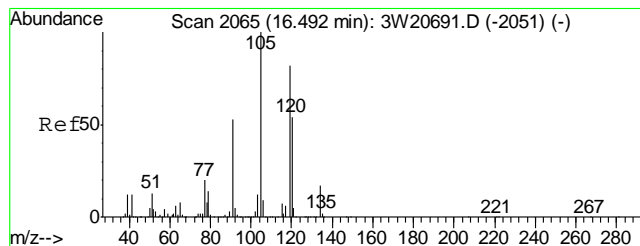
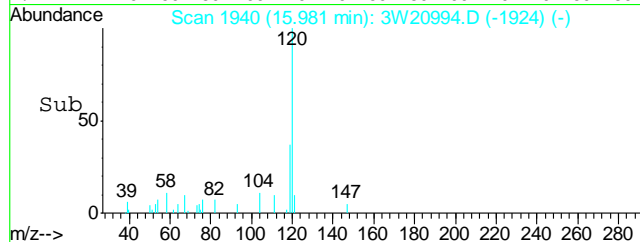
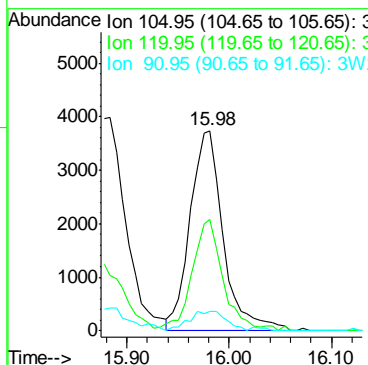
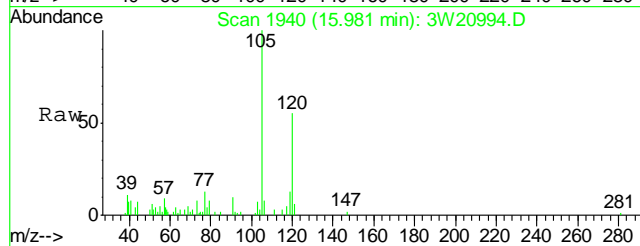
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.7	10.0	50.0
119	3.2	0.0	22.6





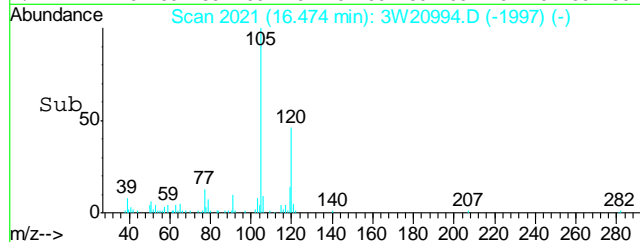
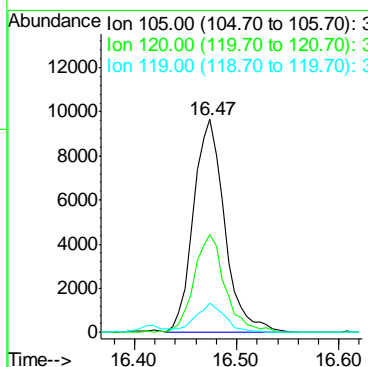
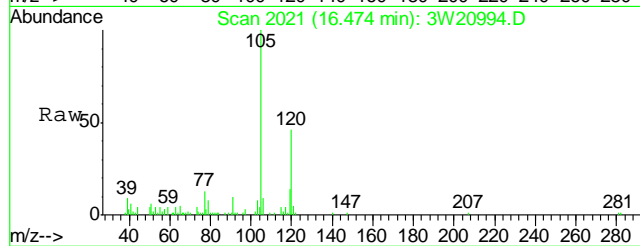
#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.28 PPBV
RT: 15.98 min Scan# 1940
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

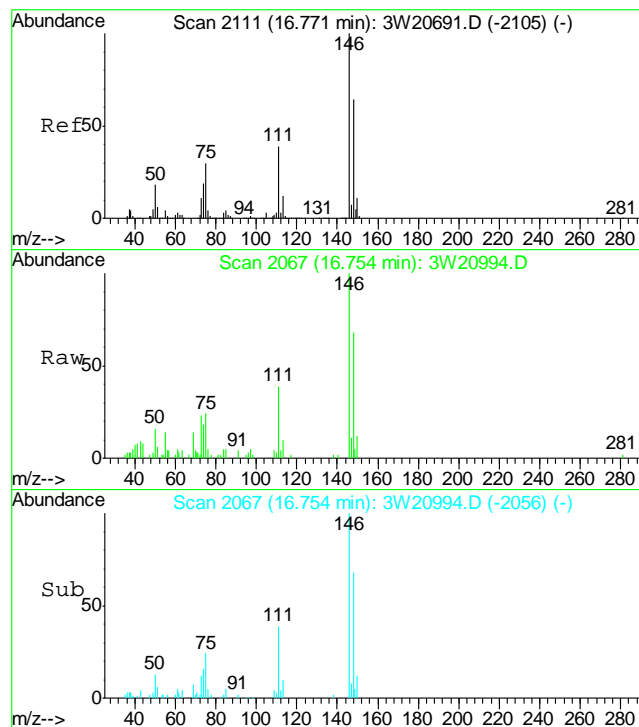
Tgt Ion:	105	Resp:	8380
Ion Ratio	Lower	Upper	
105	100		
120	52.2	31.4	71.4
91	10.8	0.0	29.6



#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.79 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

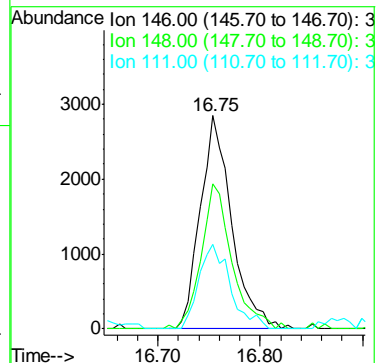
Tgt Ion:	105	Resp:	20453
Ion Ratio	Lower	Upper	
105	100		
120	45.8	39.2	79.2
119	13.1	104.5	144.5#





#88
p-DICHLOROBENZENE
Concen: 0.38 PPBV
RT: 16.75 min Scan# 2067
Delta R.T. -0.01 min
Lab File: 3W20994.D
Acq: 25 Feb 2011 12:13 am

Tgt Ion:	146	Resp:	6067
Ion Ratio	Lower	Upper	
146	100		
148	66.4	44.2	84.2
111	39.5	14.5	54.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_V3W\V3W829\3W21016.D Vial: 13
 Acq On : 25 Feb 2011 5:37 pm Operator: yunxiac
 Sample : JA68565-12 Inst : MS3W
 Misc : MS8536,V3W829,40,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 28 11:11:20 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	137470	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	664116	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	306471	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	307377	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	175346	5.38	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	107.60%

Target Compounds

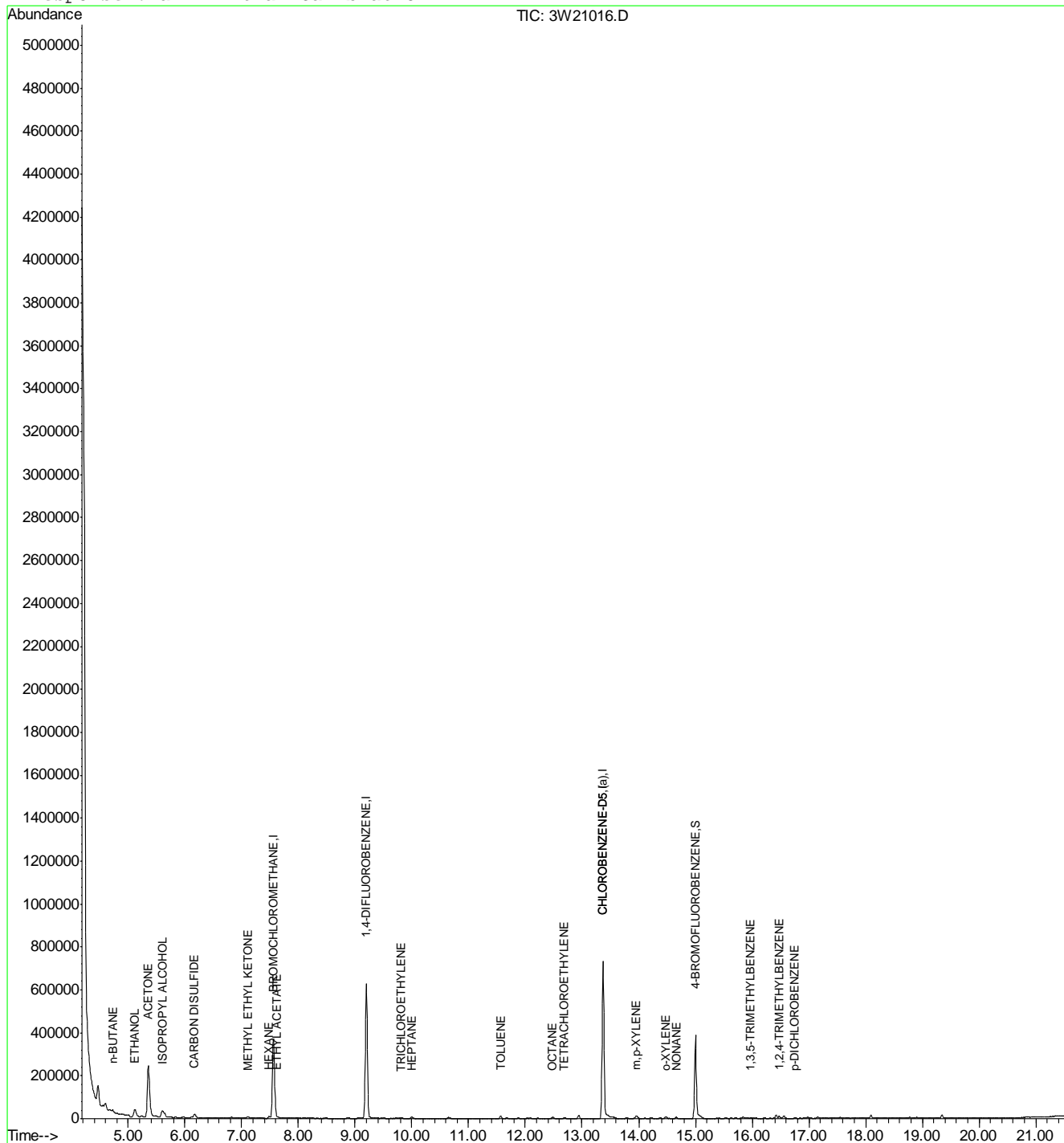
						Qvalue
11) n-BUTANE	4.73	43	17034	0.64	PPBV	# 92
17) ISOPROPYL ALCOHOL	5.60	45	59162	2.64	PPBV	91
18) ACETONE	5.35	58	133601	24.60	PPBV	# 86
23) CARBON DISULFIDE	6.17	76	33264	0.69	PPBV	86
24) ETHANOL	5.12	45	64489	11.52	PPBV	98
33) HEXANE	7.48	57	4095	0.17	PPBV	93
36) METHYL ETHYL KETONE	7.10	72	1909	0.38	PPBV	# 68
39) ETHYL ACETATE	7.62	61	575	0.16	PPBV	# 97
49) TRICHLOROETHYLENE	9.82	95	1281	0.07	PPBV	96
54) HEPTANE	9.99	43	4631	0.17	PPBV	91
59) TOLUENE	11.56	92	5265	0.21	PPBV	93
64) TETRACHLOROETHYLENE	12.69	164	1306	0.06	PPBV	97
67) OCTANE	12.48	43	4306	0.13	PPBV	91
71) m,p-XYLENE	13.96	106	4569	0.25	PPBV	94
72) o-XYLENE	14.48	106	2331	0.14	PPBV	99
74) NONANE	14.65	43	3337	0.12	PPBV	93
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	3240	0.11	PPBV	97
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	7147	0.28	PPBV	# 29
88) p-DICHLOROBENZENE	16.75	146	2188	0.14	PPBV	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21016.D M3W821.M Thu Mar 10 12:33:56 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_V3W\V3W829\3W21016.D Vial: 13
Acq On : 25 Feb 2011 5:37 pm Operator: yunxiac
Sample : JA68565-12 Inst : MS3W
Misc : MS8536,V3W829,40,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 10 12:33 2011 Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Mar 10 08:27:02 2011
Response via : Initial Calibration

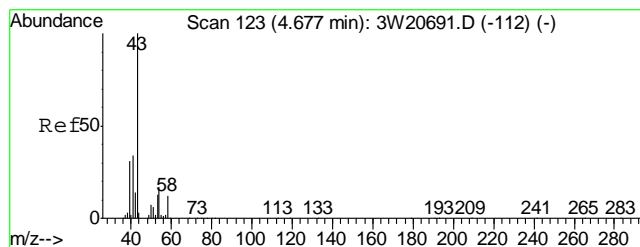


3W21016.D M3W821.M

Thu Mar 10 12:33:56 2011

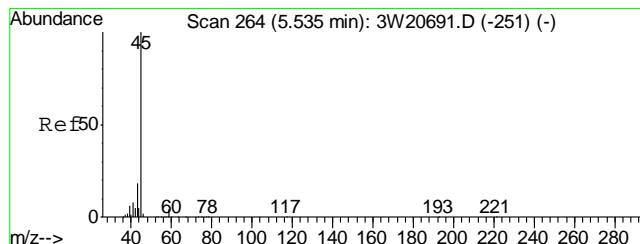
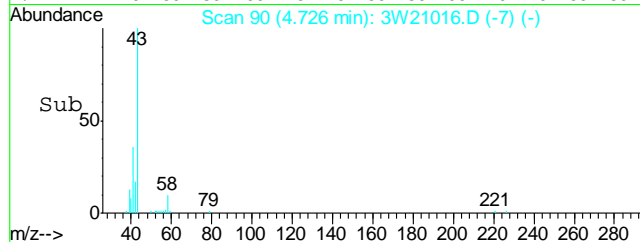
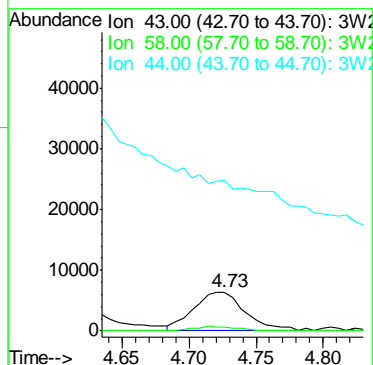
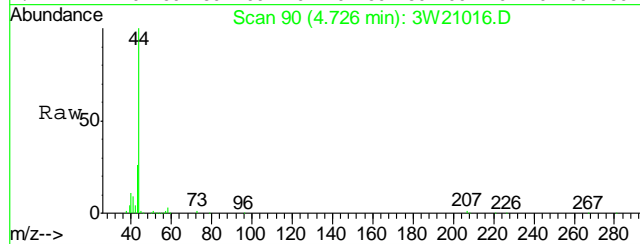
MS3W

Page 2



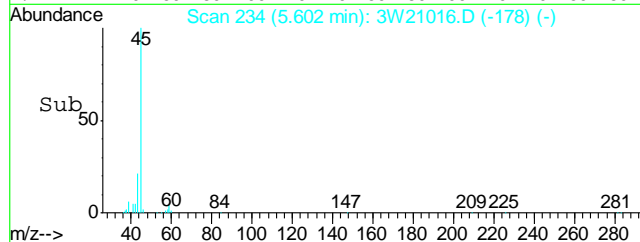
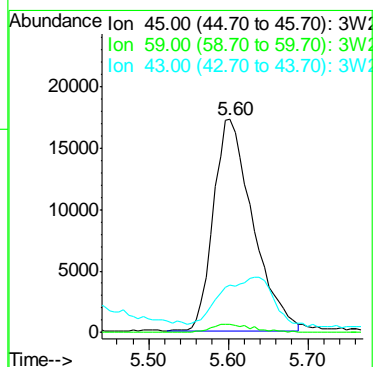
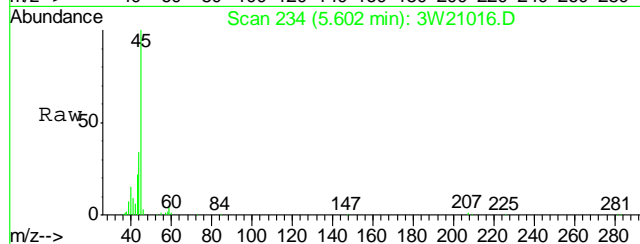
#11
n-BUTANE
Concen: 0.64 PPBV
RT: 4.73 min Scan# 90
Delta R.T. 0.01 min
Lab File: 3W21016.D
Acq: 25 Feb 2011 5:37 pm

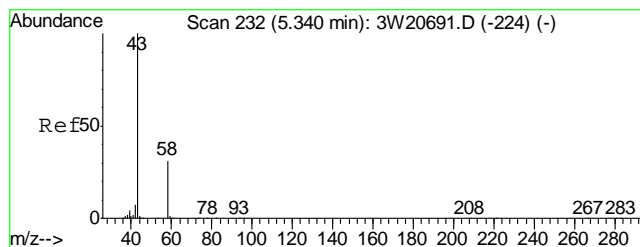
Tgt Ion	Ratio	Lower	Upper
43	100		
58	9.6	0.0	32.1
44	0.0	0.0	23.9



#17
ISOPROPYL ALCOHOL
Concen: 2.64 PPBV
RT: 5.60 min Scan# 234
Delta R.T. 0.04 min
Lab File: 3W21016.D
Acq: 25 Feb 2011 5:37 pm

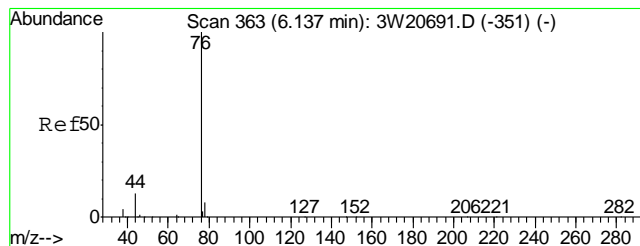
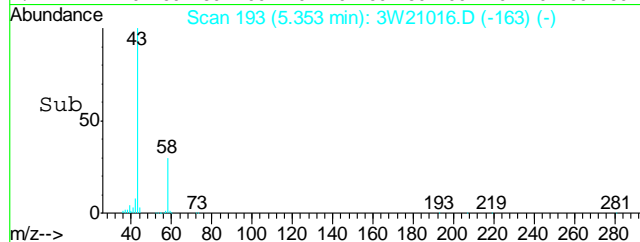
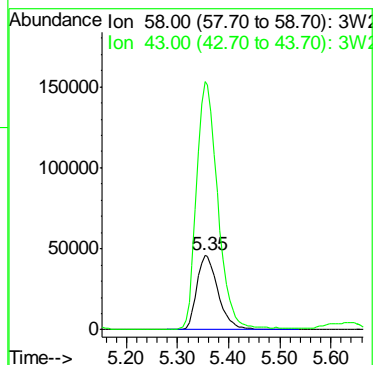
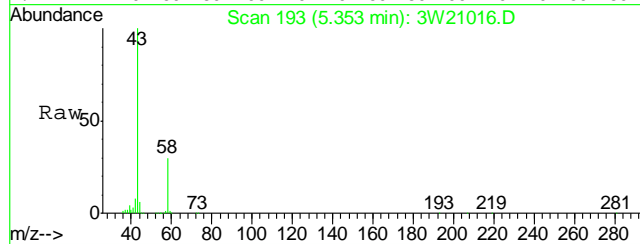
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.9	0.0	23.7
43	22.2	0.0	37.4





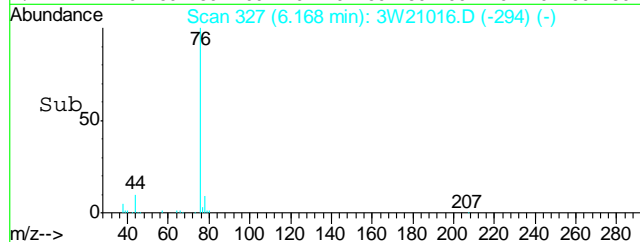
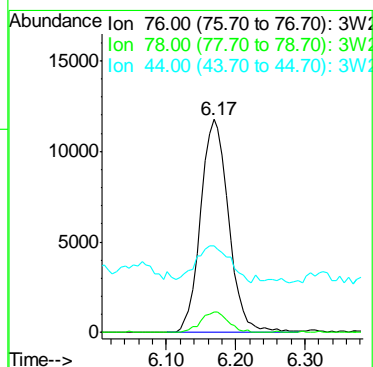
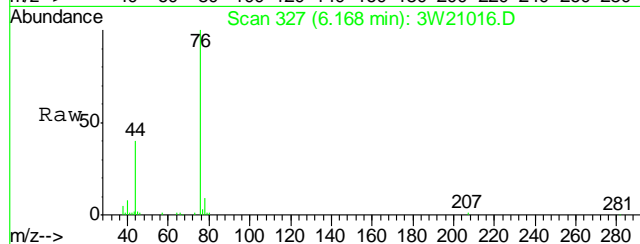
#18
 ACETONE
 Concen: 24.60 PPBV
 RT: 5.35 min Scan# 193
 Delta R.T. -0.02 min
 Lab File: 3W21016.D
 Acq: 25 Feb 2011 5:37 pm

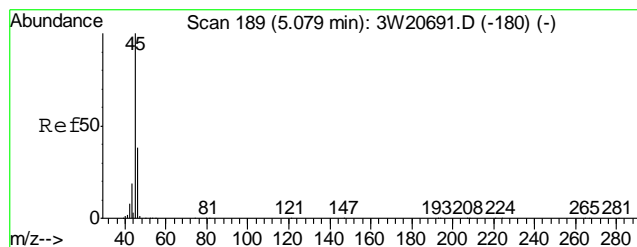
Tgt Ion: 58 Resp: 133601
 Ion Ratio Lower Upper
 58 100
 43 336.4 289.1 329.1#



#23
 CARBON DISULFIDE
 Concen: 0.69 PPBV
 RT: 6.17 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: 3W21016.D
 Acq: 25 Feb 2011 5:37 pm

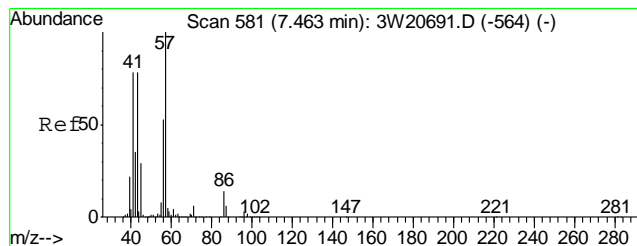
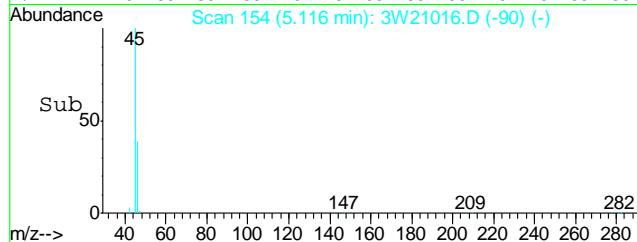
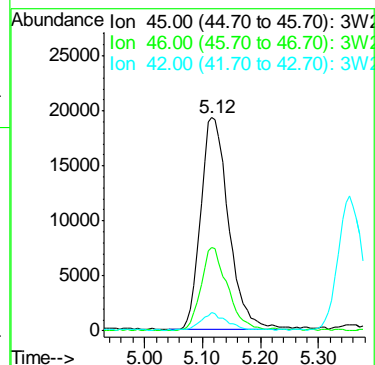
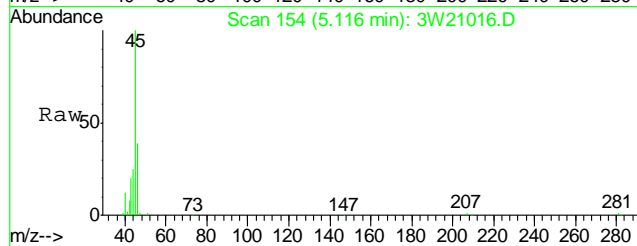
Tgt Ion: 76 Resp: 33264
 Ion Ratio Lower Upper
 76 100
 78 9.4 0.0 30.5
 44 20.8 0.0 31.7





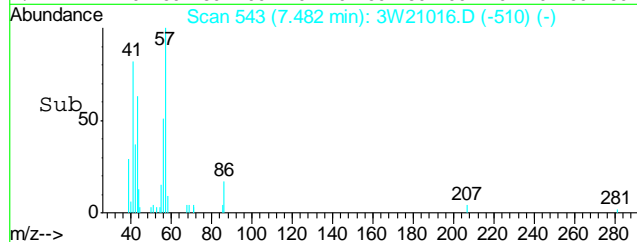
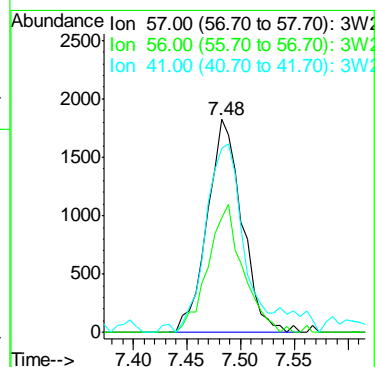
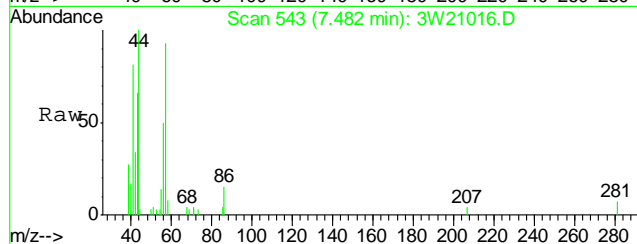
#24
 ETHANOL
 Concen: 11.52 PPBV
 RT: 5.12 min Scan# 154
 Delta R.T. 0.01 min
 Lab File: 3W21016.D
 Acq: 25 Feb 2011 5:37 pm

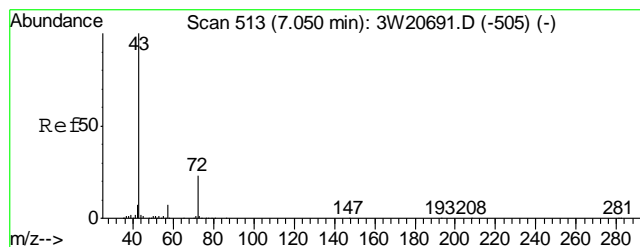
Tgt Ion: 45 Resp: 64489
 Ion Ratio Lower Upper
 45 100
 46 37.4 18.2 58.2
 42 8.9 0.0 27.7



#33
 HEXANE
 Concen: 0.17 PPBV
 RT: 7.48 min Scan# 543
 Delta R.T. -0.01 min
 Lab File: 3W21016.D
 Acq: 25 Feb 2011 5:37 pm

Tgt Ion: 57 Resp: 4095
 Ion Ratio Lower Upper
 57 100
 56 60.6 30.5 70.5
 41 95.6 79.2 119.2





#36

METHYL ETHYL KETONE

Concen: 0.38 PPBV

RT: 7.10 min Scan# 480

Delta R.T. 0.02 min

Lab File: 3W21016.D

Acq: 25 Feb 2011 5:37 pm

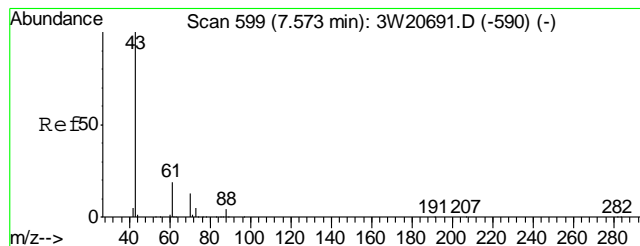
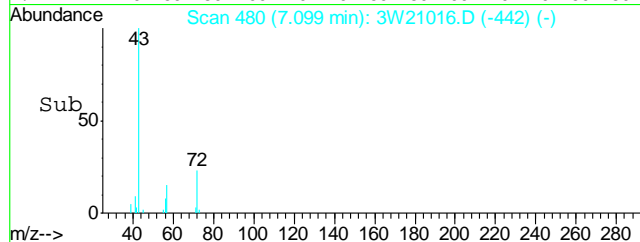
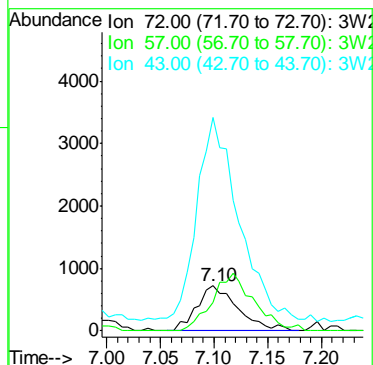
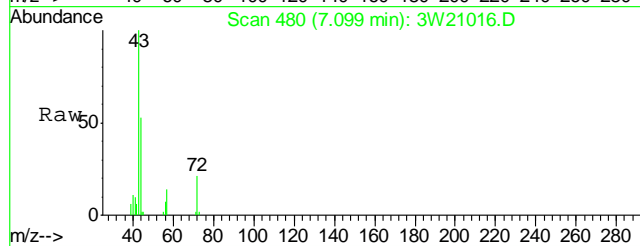
Tgt Ion: 72 Resp: 1909

Ion Ratio Lower Upper

72 100

57 64.4 11.3 51.3#

43 476.3 384.1 424.1#



#39

ETHYL ACETATE

Concen: 0.16 PPBV

RT: 7.62 min Scan# 566

Delta R.T. 0.03 min

Lab File: 3W21016.D

Acq: 25 Feb 2011 5:37 pm

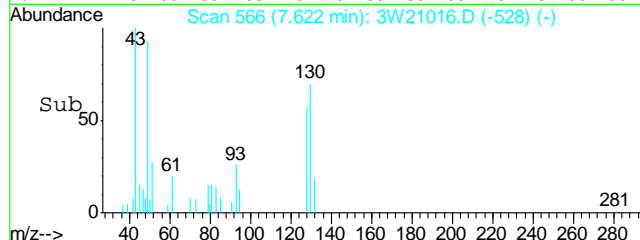
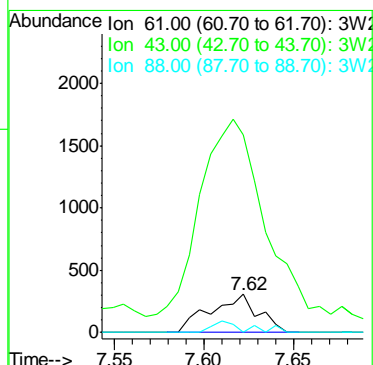
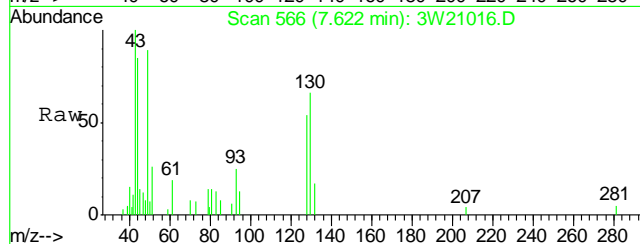
Tgt Ion: 61 Resp: 575

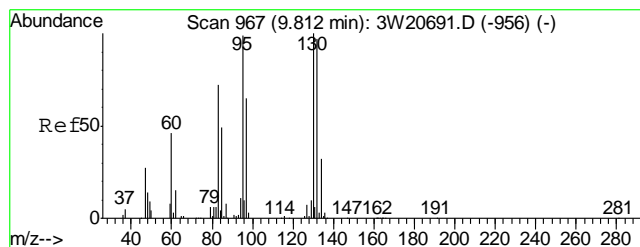
Ion Ratio Lower Upper

61 100

43 707.8 682.3 722.3

88 0.0 6.1 46.1#





#49

TRICHLOROETHYLENE

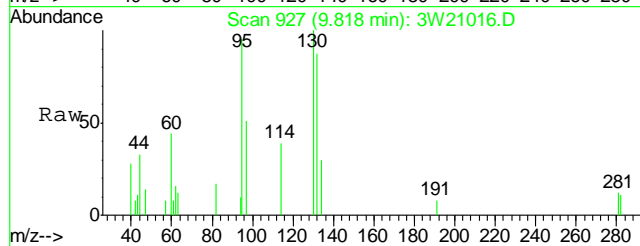
Concen: 0.07 PPBV

RT: 9.82 min Scan# 927

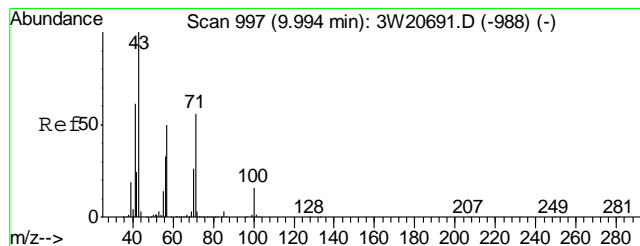
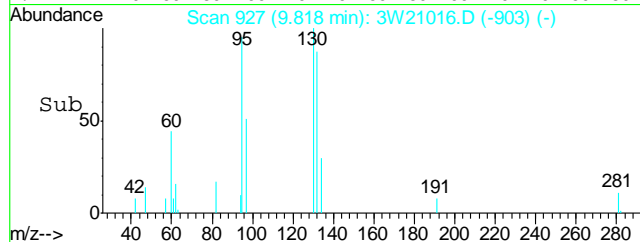
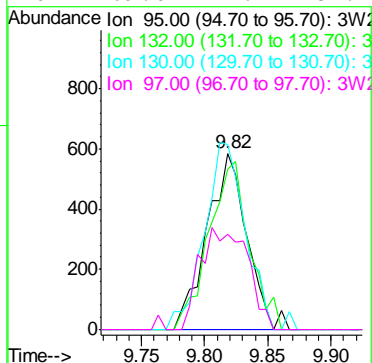
Delta R.T. -0.01 min

Lab File: 3W21016.D

Acq: 25 Feb 2011 5:37 pm



Tgt Ion:	95	Resp:	1281
Ion Ratio	Lower	Upper	
95	100		
132	96.8	83.4	123.4
130	108.5	87.1	127.1
97	69.0	44.2	84.2



#54

HEPTANE

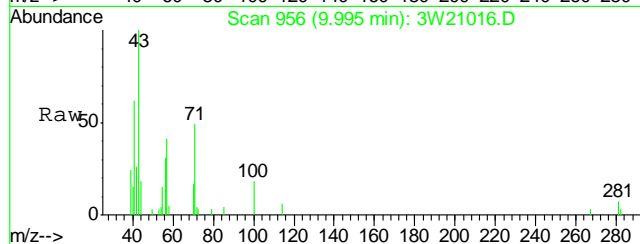
Concen: 0.17 PPBV

RT: 9.99 min Scan# 956

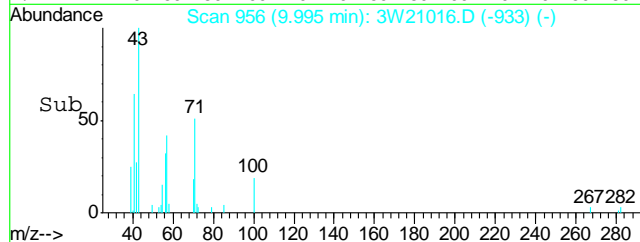
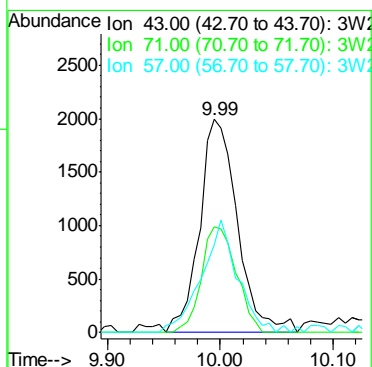
Delta R.T. -0.01 min

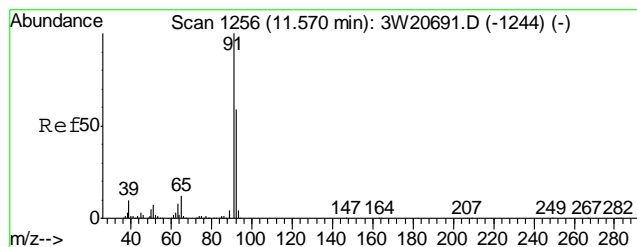
Lab File: 3W21016.D

Acq: 25 Feb 2011 5:37 pm



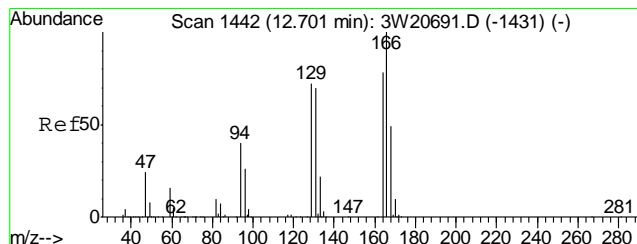
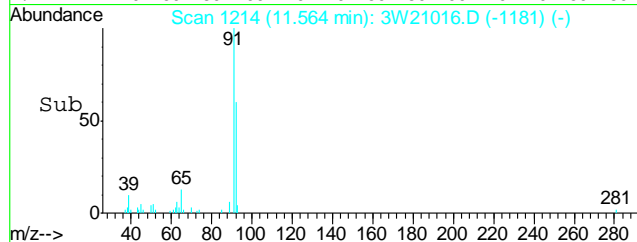
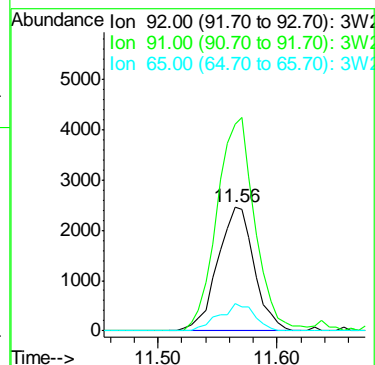
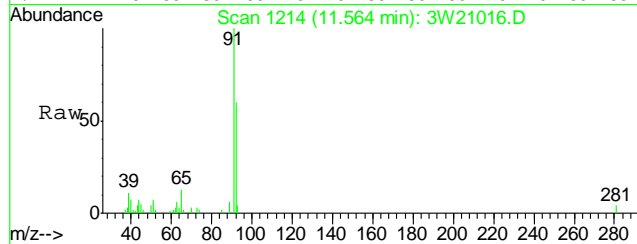
Tgt Ion:	43	Resp:	4631
Ion Ratio	Lower	Upper	
43	100		
71	45.8	36.1	76.1
57	49.8	32.3	72.3





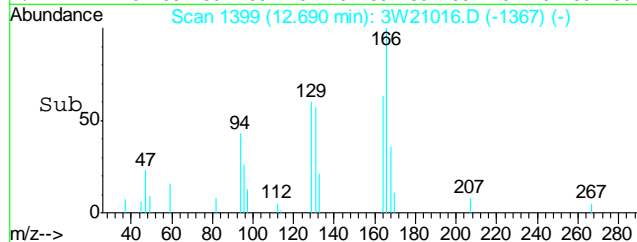
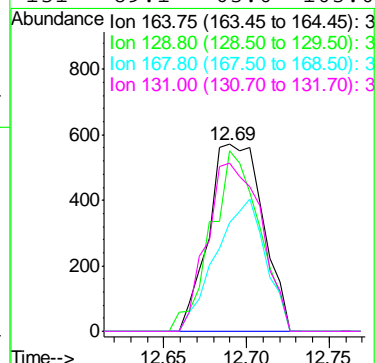
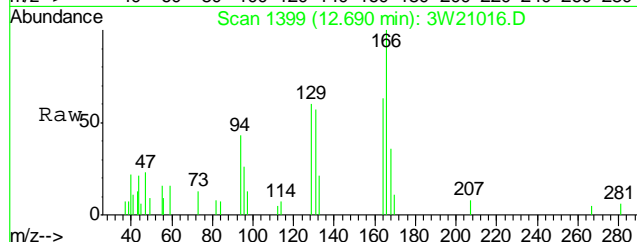
#59
TOLUENE
Concen: 0.21 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W21016.D
Acq: 25 Feb 2011 5:37 pm

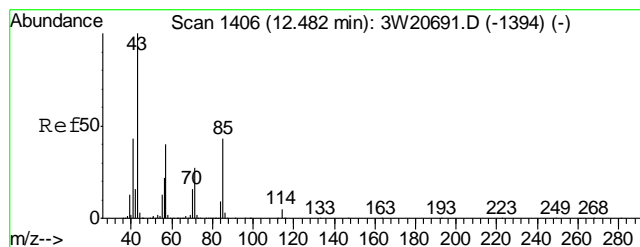
Tgt Ion	Ratio	Lower	Upper
92	100		
91	178.6	148.6	188.6
65	21.2	0.0	38.0



#64
TETRACHLOROETHYLENE
Concen: 0.06 PPBV
RT: 12.69 min Scan# 1399
Delta R.T. -0.01 min
Lab File: 3W21016.D
Acq: 25 Feb 2011 5:37 pm

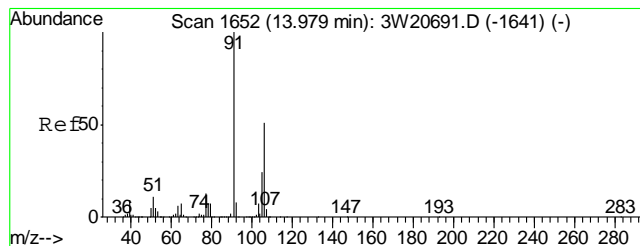
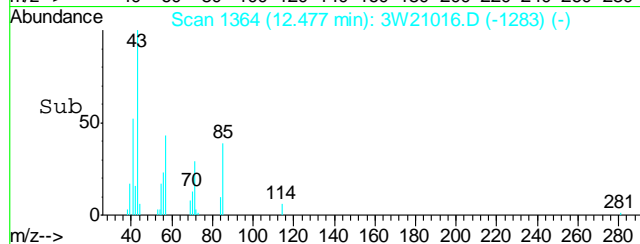
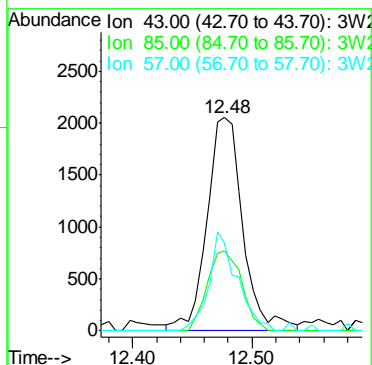
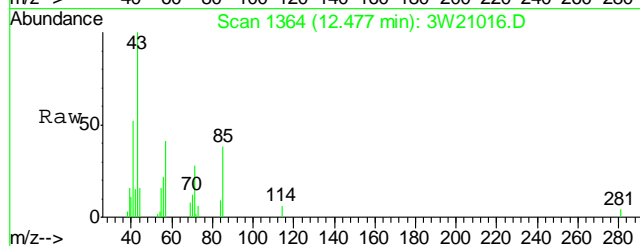
Tgt Ion	Ratio	Lower	Upper
164	100		
129	85.1	65.6	105.6
168	64.4	42.3	82.3
131	89.1	63.0	103.0





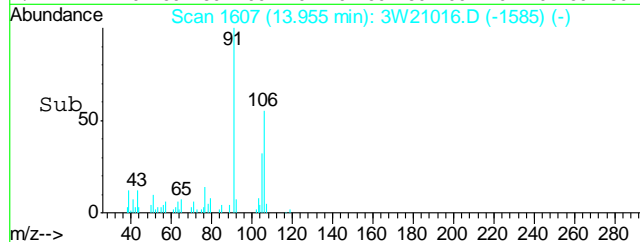
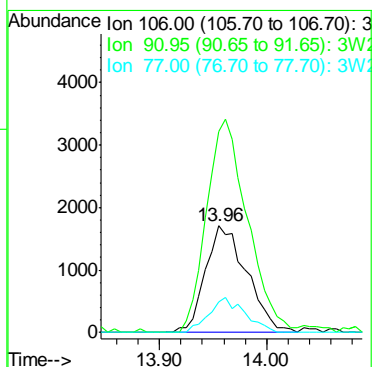
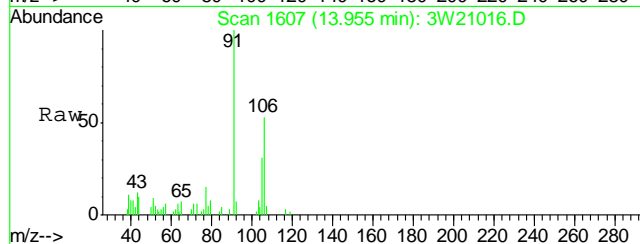
#67
OCTANE
Concen: 0.13 PPBV
RT: 12.48 min Scan# 1364
Delta R.T. -0.01 min
Lab File: 3W21016.D
Acq: 25 Feb 2011 5:37 pm

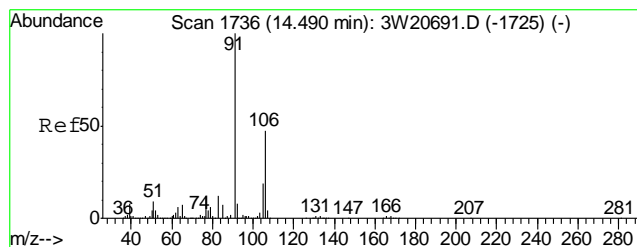
Tgt Ion	Ratio	Lower	Upper
43	100		
85	36.1	24.9	64.9
57	36.9	19.9	59.9



#71
m,p-XYLENE
Concen: 0.25 PPBV
RT: 13.96 min Scan# 1607
Delta R.T. -0.02 min
Lab File: 3W21016.D
Acq: 25 Feb 2011 5:37 pm

Tgt Ion	Ratio	Lower	Upper
106	100		
91	188.4	176.1	216.1
77	28.9	4.4	44.4





#72

o-XYLENE

Concen: 0.14 PPBV

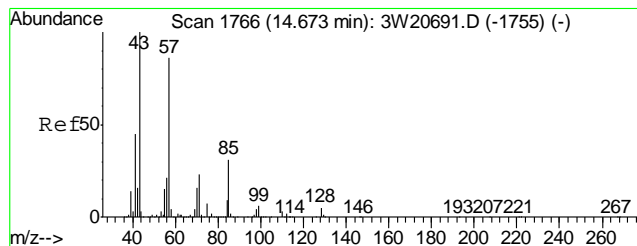
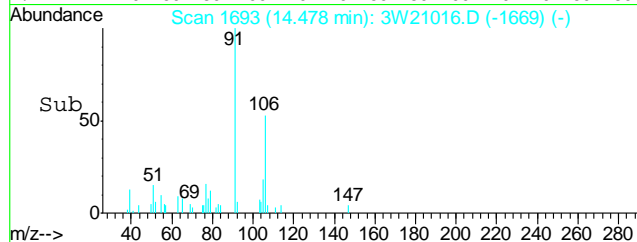
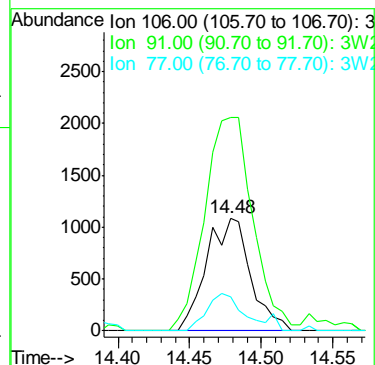
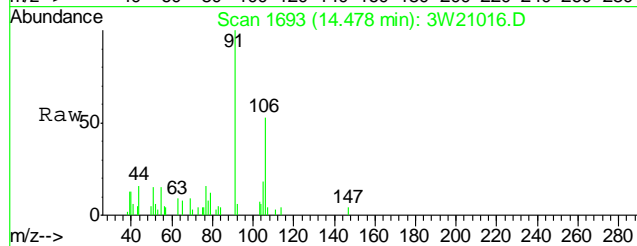
RT: 14.48 min Scan# 1693

Delta R.T. -0.01 min

Lab File: 3W21016.D

Acq: 25 Feb 2011 5:37 pm

Tgt Ion	Ratio	Lower	Upper
106	100		
91	206.9	186.8	226.8
77	29.6	3.9	43.9



#74

NONANE

Concen: 0.12 PPBV

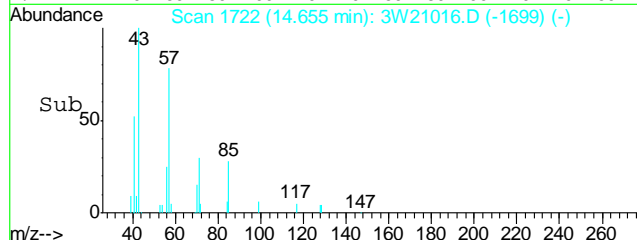
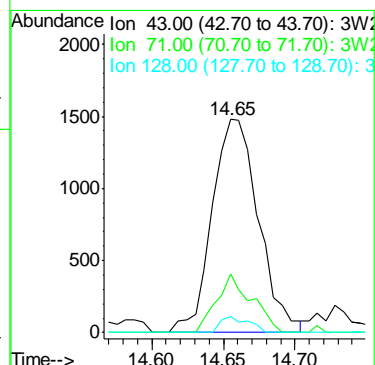
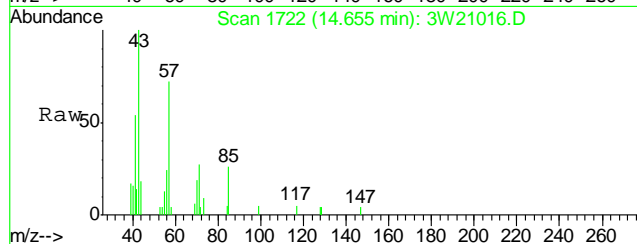
RT: 14.65 min Scan# 1722

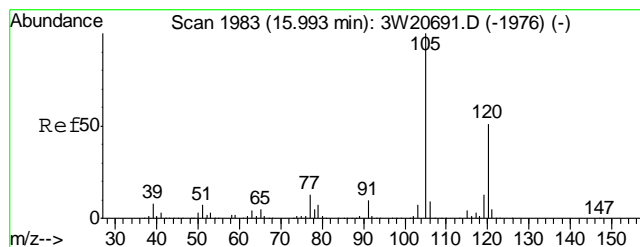
Delta R.T. -0.01 min

Lab File: 3W21016.D

Acq: 25 Feb 2011 5:37 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
71	20.9	4.4	44.4
128	4.5	0.0	26.2





#83

1,3,5-TRIMETHYLBENZENE

Concen: 0.11 PPBV

RT: 15.98 min Scan# 1940

Delta R.T. -0.01 min

Lab File: 3W21016.D

Acq: 25 Feb 2011 5:37 pm

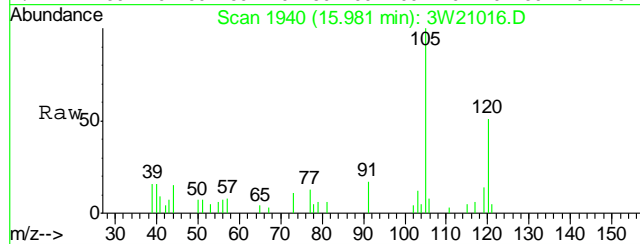
Tgt Ion:105 Resp: 3240

Ion Ratio Lower Upper

105 100

120 48.8 31.4 71.4

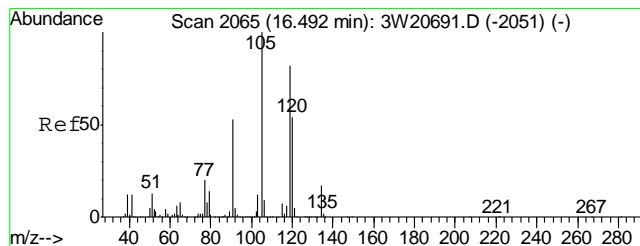
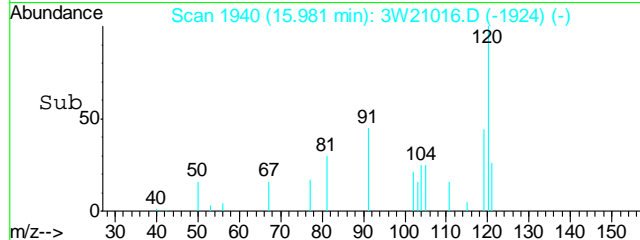
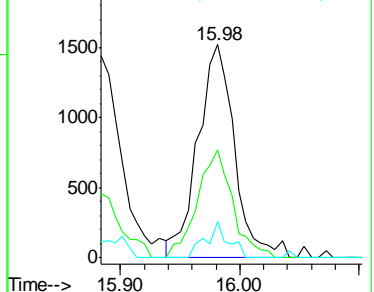
91 10.2 0.0 29.6



Abundance Ion 104.95 (104.65 to 105.65): 3

Ion 119.95 (119.65 to 120.65): 3

Ion 90.95 (90.65 to 91.65): 3W2



#85

1,2,4-TRIMETHYLBENZENE

Concen: 0.28 PPBV

RT: 16.47 min Scan# 2021

Delta R.T. -0.01 min

Lab File: 3W21016.D

Acq: 25 Feb 2011 5:37 pm

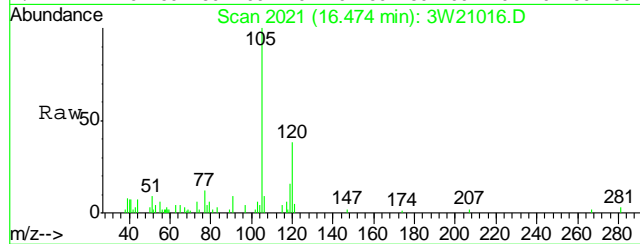
Tgt Ion:105 Resp: 7147

Ion Ratio Lower Upper

105 100

120 47.2 39.2 79.2

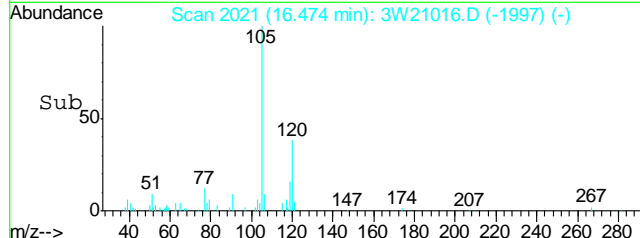
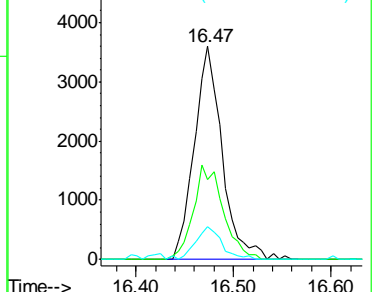
119 14.1 104.5 144.5#

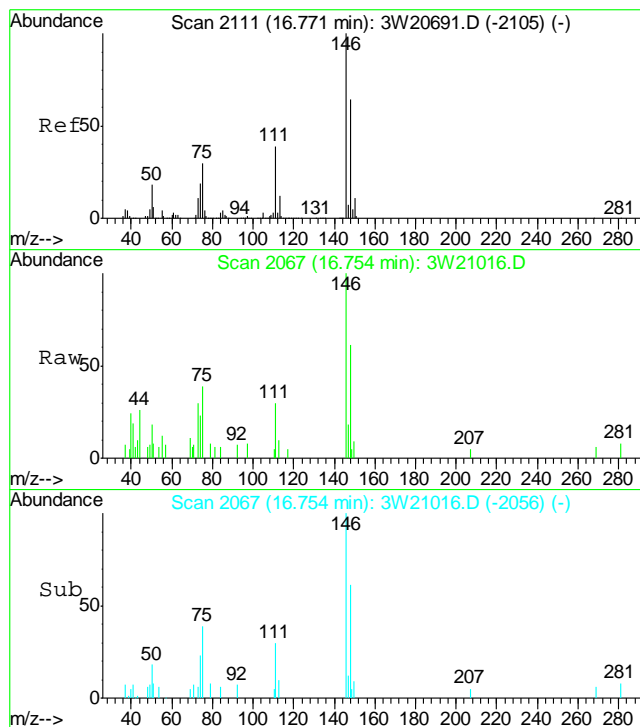


Abundance Ion 105.00 (104.70 to 105.70): 3

Ion 120.00 (119.70 to 120.70): 3

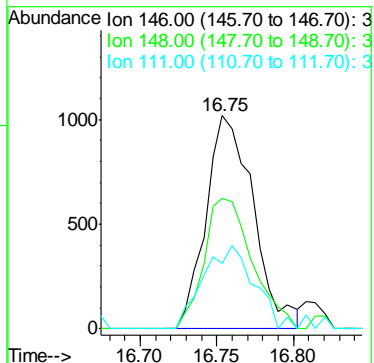
Ion 119.00 (118.70 to 119.70): 3





#88
 p-DICHLOROBENZENE
 Concen: 0.14 PPBV
 RT: 16.75 min Scan# 2067
 Delta R.T. -0.01 min
 Lab File: 3W21016.D
 Acq: 25 Feb 2011 5:37 pm

Tgt Ion:	146	Resp:	2188
Ion Ratio	Lower	Upper	
146	100		
148	62.4	44.2	84.2
111	42.0	14.5	54.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20975.D Vial: 5
Acq On : 24 Feb 2011 10:07 am Operator: yunxiac
Sample : MB Inst : MS3W
Misc : MS8082,V3W828,400,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 24 10:31:37 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	171151	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	838462	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.37	82	276863	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	276863	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	123843	4.21	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	84.20%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W20975.D M3W821.M Thu Feb 24 10:32:02 2011 MS3W

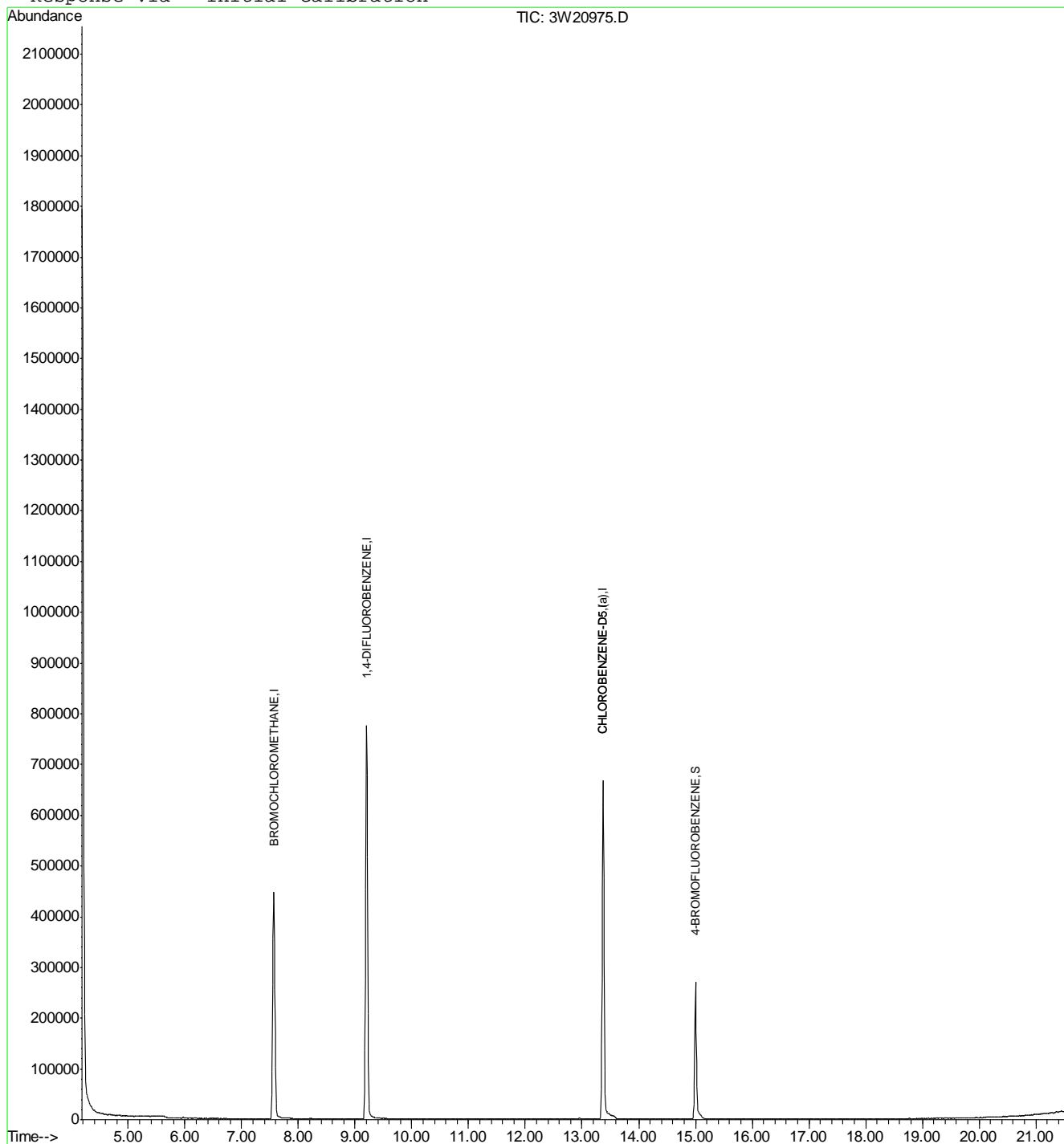
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20975.D
Acq On : 24 Feb 2011 10:07 am
Sample : MB
Misc : MS8082,V3W828,400,,,1
MS Integration Params: rteint.p
Quant Time: Feb 24 10:31 2011

Vial: 5
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21006.D Vial: 5
Acq On : 25 Feb 2011 10:55 am Operator: yunxiac
Sample : MB Inst : MS3W
Misc : MS8082,V3W829,400,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 25 11:24:39 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Feb 25 07:11:01 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	190104	10.00	PPBV	-0.01
45) 1,4-DIFLUOROBENZENE	9.20	114	931225	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	379250	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	380402	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	156626	3.88	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	77.60%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W21006.D M3W821.M Fri Feb 25 11:25:27 2011 MS3W

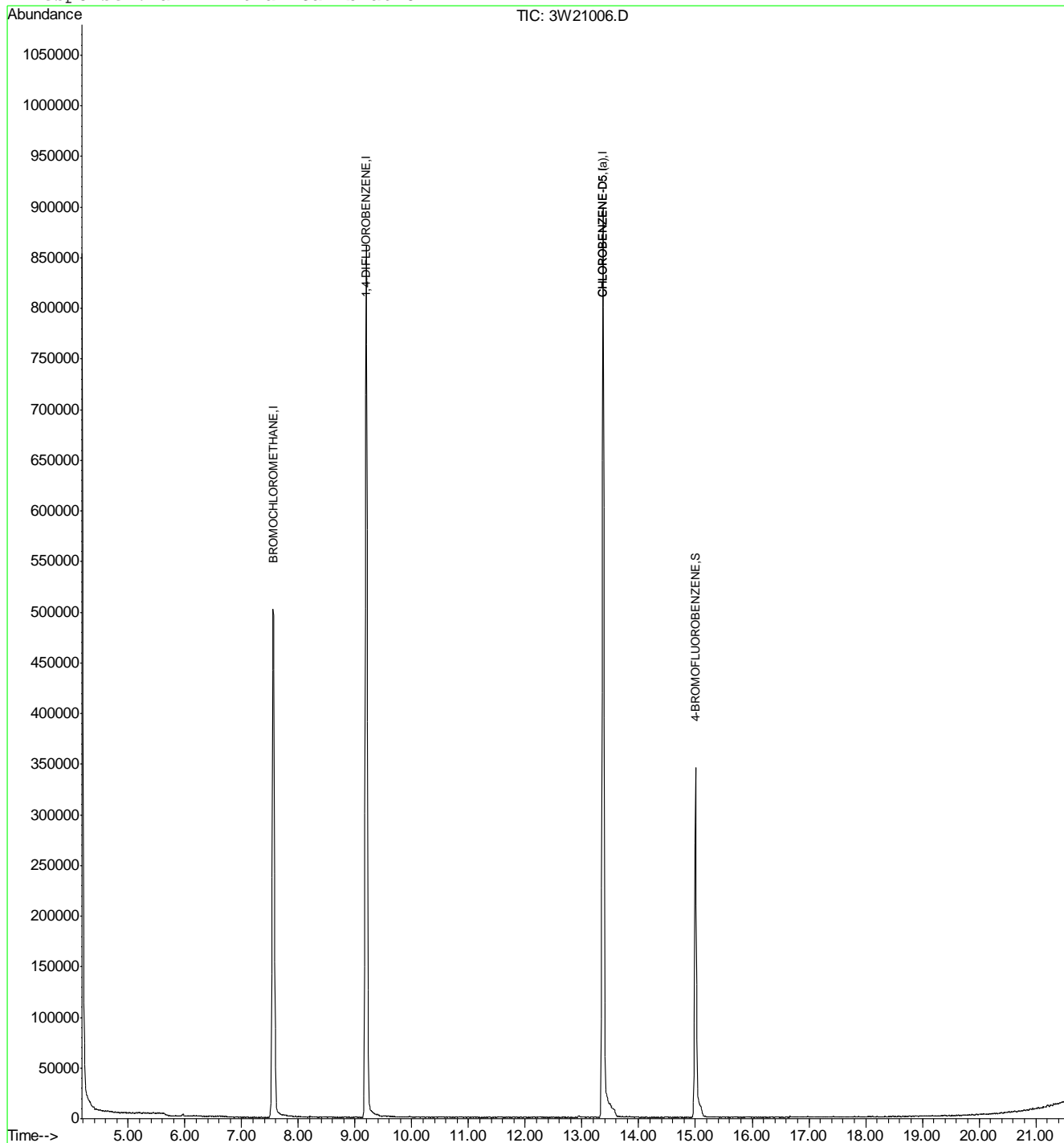
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21006.D
Acq On : 25 Feb 2011 10:55 am
Sample : MB
Misc : MS8082,V3W829,400,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 11:25 2011

Vial: 5
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Feb 25 07:11:01 2011
Response via : Initial Calibration



3W21006.D M3W821.M

Fri Feb 25 11:25:28 2011

MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30129.D Vial: 5
 Acq On : 11 Feb 2011 11:53 am Operator: YOUMINH
 Sample : MB Inst : MSW
 Misc : MS7890,VW1236,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 14 08:18:09 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	103829	10.00	PPBV	-0.05
46) 1,4-DIFLUOROBENZENE	10.46	114	470203	10.00	PPBV	-0.04
63) CHLOROBENZENE-D5	14.70	82	200738	10.00	PPBV	-0.03
96) Chlorobenzene-d5(a)	14.70	82	197808	10.00	PPBV	-0.03

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE	16.35	95	98505	4.28	PPBV	-0.02
Spiked Amount	5.000	Range	65 - 128	Recovery	=	85.60%

Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 W30129.D MW1222.M Mon Feb 14 10:31:10 2011 MSW

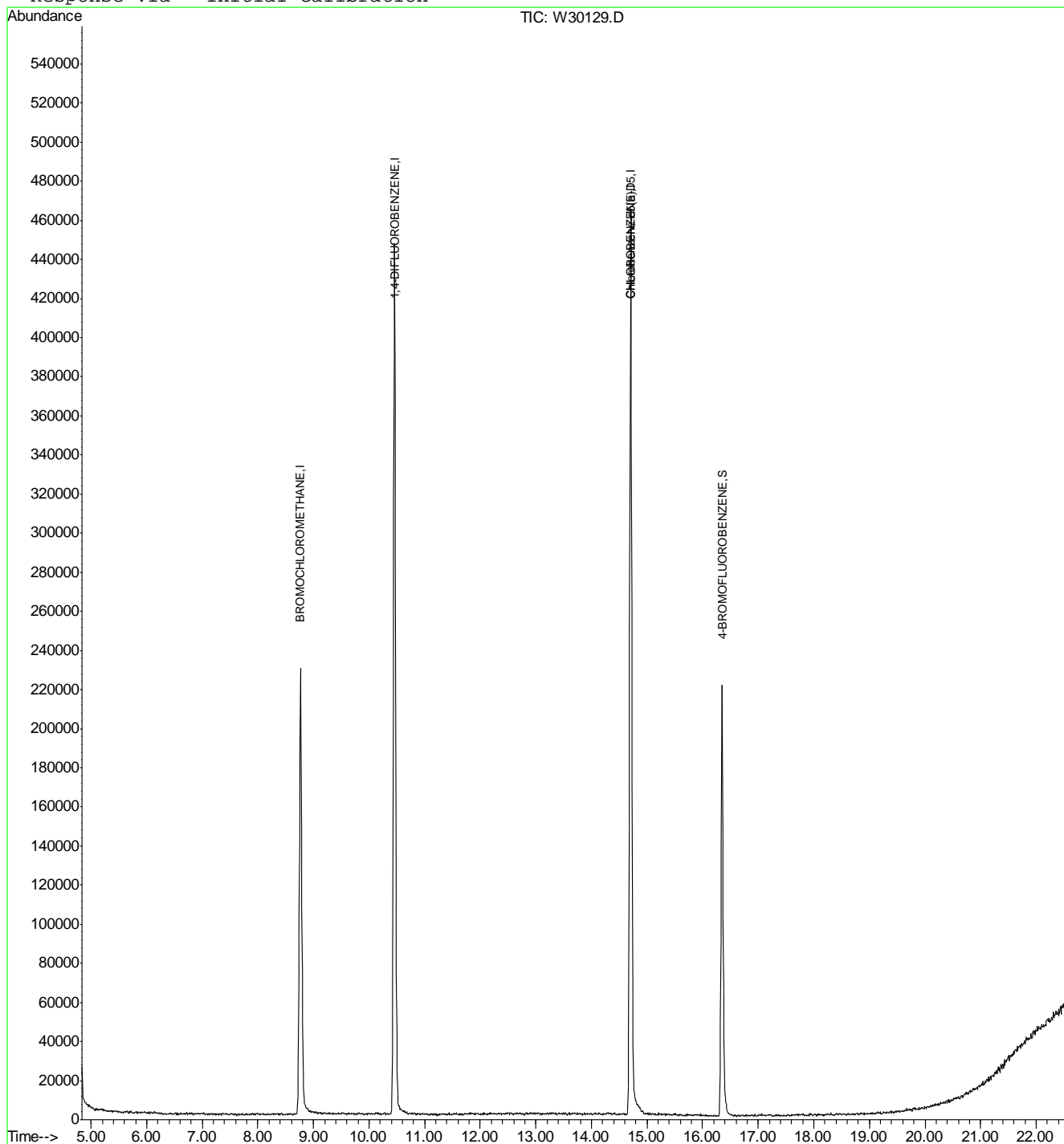
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30129.D
Acq On : 11 Feb 2011 11:53 am
Sample : MB
Misc : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:03 2011

Vial: 5
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29761.D
Acq On : 14 Feb 2011 10:17 am
Operator : YOUMINH
Sample : MB
Misc : MS8244,V2W1256,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 10:04:32 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.307	128	225651	10.00	PPBV	# 0.00
44) 1,4-DIFLUOROBENZENE	9.154	114	1114710	10.00	PPBV	-0.01
61) CHLOROBENZENE-D5	13.269	82	472276	10.00	PPBV	#-0.01
93) CHLOROBENZENE-D5(A)	13.269	82	503443	10.00	PPBV	#-0.01

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.763	95	219528	4.44	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	88.80%

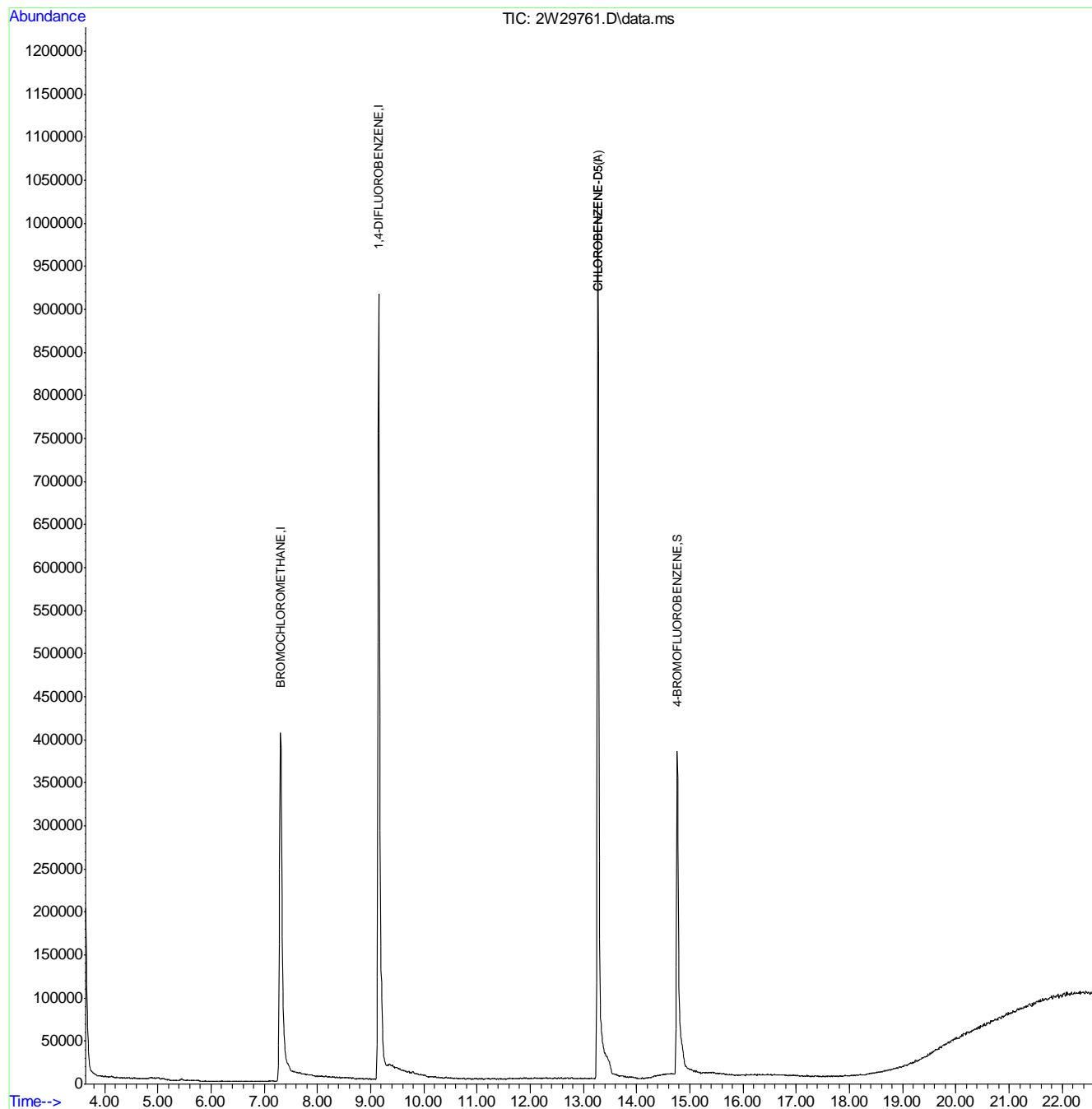
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29761.D
Acq On : 14 Feb 2011 10:17 am
Operator : YOU MINH
Sample : MB
Misc : MS8244,V2W1256,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 10:04:32 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20973.D
 Acq On : 24 Feb 2011 8:05 am
 Sample : BS
 Misc : MS8082,V3W828,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 24 09:07:13 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	167905	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	833282	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.37	82	407825	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	407825	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 219104 5.05 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 101.00%

Target Compounds

Qvalue

3) FREON 152A	4.29	65	121624	8.94	PPBV	93
4) CHLORODIFLUOROMETHANE	4.32	67	45827	9.23	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.38	85	468851	9.48	PPBV	99
6) PROPYLENE	4.34	41	176628	9.47	PPBV	99
7) FREON 114	4.54	85	545337	9.55	PPBV	96
8) CHLOROMETHANE	4.49	50	229429	10.91	PPBV	92
9) VINYL CHLORIDE	4.62	62	204829	10.16	PPBV	99
10) 1,3-BUTADIENE	4.70	54	157235	9.82	PPBV	95
11) n-BUTANE	4.73	43	346088	10.64	PPBV	96
12) BROMOMETHANE	4.88	94	196185	9.64	PPBV	98
13) CHLOROETHANE	4.98	64	109477	11.25	PPBV	99
14) FREON 123	5.27	83	431588	10.28	PPBV	100
15) FREON 123A	5.31	117	240796	9.94	PPBV	89
16) TRICHLOROFLUOROMETHANE	5.46	101	473861	9.84	PPBV	99
17) ISOPROPYL ALCOHOL	5.55	45	268572	9.80	PPBV	99
18) ACETONE	5.38	58	60348	9.10	PPBV #	89
19) PENTANE	5.65	42	239610	10.71	PPBV	99
21) IODOMETHANE	5.83	142	555333	10.09	PPBV	96
22) 1,1-DICHLOROETHYLENE	5.88	96	187452	9.42	PPBV	95
23) CARBON DISULFIDE	6.17	76	565604	9.59	PPBV	96
24) ETHANOL	5.11	45	61339	8.97	PPBV	98
25) BROMOETHENE	5.20	106	200085	10.00	PPBV	99
26) METHYLENE CHLORIDE	5.97	84	161965	10.34	PPBV	92
27) 3-CHLOROPROPENE	6.03	76	79335	11.17	PPBV #	82
28) FREON 113	6.11	151	325720	9.73	PPBV	95
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	199472	10.55	PPBV	96
30) TERTIARY BUTYL ALCOHOL	5.95	59	313516	10.03	PPBV	95
31) METHYL TERTIARY BUTYL ETHER	6.78	73	333227	8.13	PPBV	97
32) TETRAHYDROFURAN	8.01	72	62968	9.38	PPBV #	87
33) HEXANE	7.49	57	313772	10.44	PPBV	100
34) VINYL ACETATE	6.87	86	31802	10.38	PPBV #	68
35) 1,1-DICHLOROETHANE	6.76	63	332307	10.89	PPBV	99
36) METHYL ETHYL KETONE	7.06	72	59028	9.51	PPBV #	81
37) cis-1,2-DICHLOROETHYLENE	7.45	96	183901	10.41	PPBV	94
38) DIISOPROPYL ETHER	7.51	45	444376	9.22	PPBV	98
39) ETHYL ACETATE	7.59	61	39786	9.15	PPBV #	83
40) CHLOROFORM	7.65	83	367892	10.68	PPBV	99
41) 2,4-DIMETHYLPENTANE	8.21	57	390275	11.38	PPBV	98
42) 1,1,1-TRICHLOROETHANE	8.47	97	360724	10.63	PPBV	98
43) CARBON TETRACHLORIDE	9.02	117	413324	11.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W20973.D M3W821.M

Thu Feb 24 10:15:14 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20973.D
 Acq On : 24 Feb 2011 8:05 am
 Sample : BS
 Misc : MS8082,V3W828,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 24 09:07:13 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.26	62	212602	12.66	PPBV	99
46) BENZENE	8.89	78	524630	10.53	PPBV	98
47) CYCLOHEXANE	9.06	56	328213	10.28	PPBV	96
48) 2,3-DIMETHYLPENTANE	9.24	71	138081	11.00	PPBV	94
49) TRICHLOROETHYLENE	9.82	95	232512	9.51	PPBV	97
50) 1,2-DICHLOROPROPANE	9.58	63	197407	10.78	PPBV	100
51) BROMODICHLOROMETHANE	9.80	83	375595	10.91	PPBV	99
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	914225	10.73	PPBV	99
53) 1,4-DIOXANE	9.90	88	81722	9.40	PPBV	92
54) HEPTANE	10.00	43	383433	11.05	PPBV	94
56) METHYL METHACRYLATE	10.03	69	121453	9.27	PPBV #	13
57) METHYL ISOBUTYL KETONE	10.66	58	115126	10.30	PPBV	91
58) cis-1,3-DICHLOROPROPENE	10.65	75	290539	12.33	PPBV	96
59) TOLUENE	11.56	92	341239	10.67	PPBV	98
60) trans-1,3-DICHLOROPROPENE	11.15	75	230581	13.29	PPBV	93
61) 1,1,2-TRICHLOROETHANE	11.31	83	175454	12.04	PPBV	98
63) 2-HEXANONE	11.85	58	144138	9.88	PPBV	93
64) TETRACHLOROETHYLENE	12.70	164	250833	8.67	PPBV	99
65) DIBROMOCHLOROMETHANE	12.01	129	360865	10.16	PPBV	98
66) 1,2-DIBROMOETHANE	12.22	107	286402	10.88	PPBV	99
67) OCTANE	12.48	43	481049	10.54	PPBV	93
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	241562	9.84	PPBV	97
69) CHLOROBENZENE	13.42	112	401818	9.72	PPBV	97
70) ETHYLBENZENE	13.78	91	662264	10.28	PPBV	99
71) m,p-XYLENE	13.97	106	480292	19.99	PPBV	98
72) o-XYLENE	14.48	106	232974	10.31	PPBV	98
73) STYRENE	14.38	104	323205	12.18	PPBV	98
74) NONANE	14.66	43	433360	11.53	PPBV	95
75) BROMOFORM	14.08	173	312427	10.08	PPBV	100
77) 1,1,2,2-TETRACHLOROETHANE	14.50	83	289261	12.13	PPBV	99
78) 1,2,3-TRICHLOROPROPANE	14.63	75	213438	11.54	PPBV	99
79) ISOPROPYLBENZENE	15.12	105	575778	9.34	PPBV	99
80) 2-CHLOROTOLUENE	15.69	126	145355	10.26	PPBV	100
81) n-PROPYLBENZENE	15.71	120	134543	9.30	PPBV	100
82) 4-ETHYLTOLUENE	15.88	105	442485	9.45	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	365746	9.21	PPBV	98
84) tert-BUTYLBENZENE	16.47	134	82424	8.33	PPBV	95
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	321194	9.48	PPBV	96
86) m-DICHLOROBENZENE	16.67	146	248953	11.74	PPBV	99
87) BENZYL CHLORIDE	16.67	91	228802	10.07	PPBV	98
88) p-DICHLOROBENZENE	16.76	146	233754	11.02	PPBV	100
89) sec-BUTYLBENZENE	16.80	134	96852	9.59	PPBV	93
90) p-ISOPROPYLTOLUENE	16.98	134	95994	8.97	PPBV	98
91) o-DICHLOROBENZENE	17.19	146	209515	11.43	PPBV	99
92) n-BUTYLBENZENE	17.50	134	75923	9.61	PPBV #	89
93) HEXACHLOROBUTADIENE	19.77	225	91570	13.06	PPBV	100
94) 1,2,4-TRICHLOROBENZENE	19.22	180	44724	10.25	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20973.D M3W821.M Thu Feb 24 10:15:14 2011 MS3W

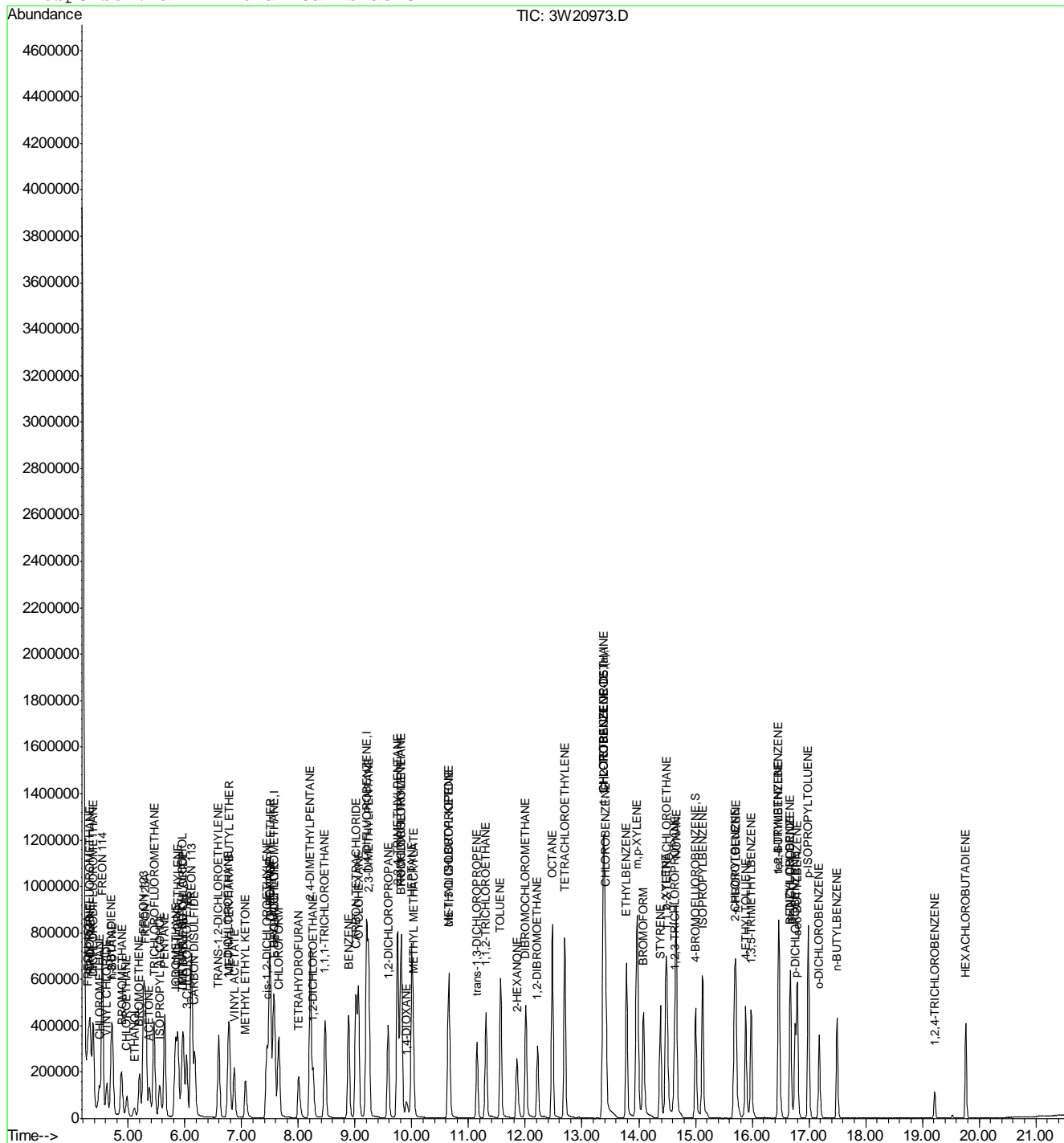
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20973.D
Acq On : 24 Feb 2011 8:05 am
Sample : BS
Misc : MS8082,V3W828,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 24 9:15 2011

Vial: 3
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



3W20973.D M3W821.M

Thu Feb 24 10:15:14 2011

MS3W

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20974.D
 Acq On : 24 Feb 2011 8:45 am
 Sample : BSD
 Misc : MS8082,V3W828,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 24 09:06:58 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	171352	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	855433	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.37	82	409072	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	409072	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	220989	5.08	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	101.60%

Target Compounds

Qvalue

3) FREON 152A	4.29	65	125921	9.07	PPBV	98
4) CHLORODIFLUOROMETHANE	4.32	67	47362	9.35	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.38	85	476233	9.44	PPBV	99
6) PROPYLENE	4.34	41	179814	9.44	PPBV	99
7) FREON 114	4.54	85	553202	9.50	PPBV	97
8) CHLOROMETHANE	4.49	50	233273	10.87	PPBV	93
9) VINYL CHLORIDE	4.62	62	209312	10.17	PPBV	100
10) 1,3-BUTADIENE	4.70	54	161365	9.88	PPBV	96
11) n-BUTANE	4.73	43	349185	10.52	PPBV	98
12) BROMOMETHANE	4.88	94	200519	9.65	PPBV	99
13) CHLOROETHANE	4.98	64	111694	11.25	PPBV	98
14) FREON 123	5.27	83	449731	10.49	PPBV	99
15) FREON 123A	5.30	117	251063	10.16	PPBV	90
16) TRICHLOROFLUOROMETHANE	5.46	101	482188	9.81	PPBV	100
17) ISOPROPYL ALCOHOL	5.55	45	275515	9.85	PPBV	99
18) ACETONE	5.38	58	59497	8.79	PPBV	91
19) PENTANE	5.64	42	241189	10.57	PPBV	98
21) IODOMETHANE	5.83	142	570246	10.15	PPBV	98
22) 1,1-DICHLOROETHYLENE	5.88	96	190783	9.39	PPBV	95
23) CARBON DISULFIDE	6.17	76	570031	9.47	PPBV	98
24) ETHANOL	5.10	45	62200	8.91	PPBV	97
25) BROMOETHENE	5.20	106	205030	10.04	PPBV	99
26) METHYLENE CHLORIDE	5.97	84	170141	10.65	PPBV	94
27) 3-CHLOROPROPENE	6.03	76	80597	11.12	PPBV #	80
28) FREON 113	6.11	151	334812	9.80	PPBV	96
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	206192	10.69	PPBV	96
30) TERTIARY BUTYL ALCOHOL	5.94	59	320051	10.03	PPBV	96
31) METHYL TERTIARY BUTYL ETHER	6.78	73	338815	8.10	PPBV	97
32) TETRAHYDROFURAN	8.01	72	61179	8.93	PPBV #	86
33) HEXANE	7.49	57	318059	10.37	PPBV	99
34) VINYL ACETATE	6.87	86	31323	10.02	PPBV #	60
35) 1,1-DICHLOROETHANE	6.76	63	340295	10.93	PPBV	99
36) METHYL ETHYL KETONE	7.06	72	61224	9.66	PPBV #	76
37) cis-1,2-DICHLOROETHYLENE	7.45	96	188309	10.44	PPBV	95
38) DIISOPROPYL ETHER	7.51	45	452399	9.20	PPBV	99
39) ETHYL ACETATE	7.59	61	41780	9.42	PPBV	96
40) CHLOROFORM	7.65	83	375083	10.67	PPBV	98
41) 2,4-DIMETHYLPENTANE	8.21	57	399139	11.40	PPBV	99
42) 1,1,1-TRICHLOROETHANE	8.47	97	366920	10.60	PPBV	99
43) CARBON TETRACHLORIDE	9.02	117	424739	11.08	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W20974.D M3W821.M

Thu Feb 24 10:15:15 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20974.D
 Acq On : 24 Feb 2011 8:45 am
 Sample : BSD
 Misc : MS8082,V3W828,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 24 09:06:58 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.26	62	213541	12.46	PPBV	99
46) BENZENE	8.88	78	532360	10.41	PPBV	98
47) CYCLOHEXANE	9.06	56	333501	10.17	PPBV	97
48) 2,3-DIMETHYLPENTANE	9.24	71	142436	11.05	PPBV	95
49) TRICHLOROETHYLENE	9.82	95	239102	9.53	PPBV	97
50) 1,2-DICHLOROPROPANE	9.58	63	202408	10.76	PPBV	100
51) BROMODICHLOROMETHANE	9.80	83	382769	10.83	PPBV	99
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	931656	10.65	PPBV	99
53) 1,4-DIOXANE	9.90	88	85346	9.56	PPBV	94
54) HEPTANE	10.00	43	401023	11.26	PPBV	94
56) METHYL METHACRYLATE	10.03	69	124321	9.24	PPBV #	88
57) METHYL ISOBUTYL KETONE	10.66	58	117688	10.26	PPBV	91
58) cis-1,3-DICHLOROPROPENE	10.65	75	294964	12.20	PPBV	96
59) TOLUENE	11.56	92	346505	10.56	PPBV	100
60) trans-1,3-DICHLOROPROPENE	11.14	75	232185	13.03	PPBV	93
61) 1,1,2-TRICHLOROETHANE	11.31	83	173797	11.62	PPBV	99
63) 2-HEXANONE	11.85	58	149403	10.21	PPBV	95
64) TETRACHLOROETHYLENE	12.70	164	257665	8.88	PPBV	99
65) DIBROMOCHLOROMETHANE	12.01	129	357368	10.03	PPBV	100
66) 1,2-DIBROMOETHANE	12.22	107	291503	11.04	PPBV	99
67) OCTANE	12.48	43	482889	10.55	PPBV	93
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	249126	10.12	PPBV	100
69) CHLOROBENZENE	13.42	112	404723	9.76	PPBV	98
70) ETHYLBENZENE	13.78	91	670429	10.37	PPBV	99
71) m,p-XYLENE	13.97	106	484557	20.11	PPBV	100
72) o-XYLENE	14.48	106	233815	10.32	PPBV	98
73) STYRENE	14.38	104	327712	12.32	PPBV	99
74) NONANE	14.66	43	430917	11.43	PPBV	95
75) BROMOFORM	14.08	173	316224	10.17	PPBV	99
77) 1,1,2,2-TETRACHLOROETHANE	14.50	83	290567	12.15	PPBV	100
78) 1,2,3-TRICHLOROPROPANE	14.63	75	215409	11.61	PPBV	99
79) ISOPROPYLBENZENE	15.12	105	580242	9.39	PPBV	99
80) 2-CHLOROTOLUENE	15.69	126	147829	10.40	PPBV	99
81) n-PROPYLBENZENE	15.71	120	135684	9.35	PPBV	99
82) 4-ETHYLTOLUENE	15.88	105	450276	9.59	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	365778	9.19	PPBV	98
84) tert-BUTYLBENZENE	16.47	134	84945	8.56	PPBV	96
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	328038	9.65	PPBV	96
86) m-DICHLOROBENZENE	16.67	146	254079	11.95	PPBV	99
87) BENZYL CHLORIDE	16.67	91	235096	10.31	PPBV	98
88) p-DICHLOROBENZENE	16.76	146	237089	11.14	PPBV	99
89) sec-BUTYLBENZENE	16.80	134	96943	9.57	PPBV #	90
90) p-ISOPROPYLTOLUENE	16.99	134	97069	9.04	PPBV	99
91) o-DICHLOROBENZENE	17.19	146	212953	11.59	PPBV	99
92) n-BUTYLBENZENE	17.50	134	78706	9.94	PPBV	93
93) HEXACHLOROBUTADIENE	19.77	225	94834	13.49	PPBV	100
94) 1,2,4-TRICHLOROBENZENE	19.22	180	47564	10.87	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20974.D M3W821.M Thu Feb 24 10:15:15 2011 MS3W

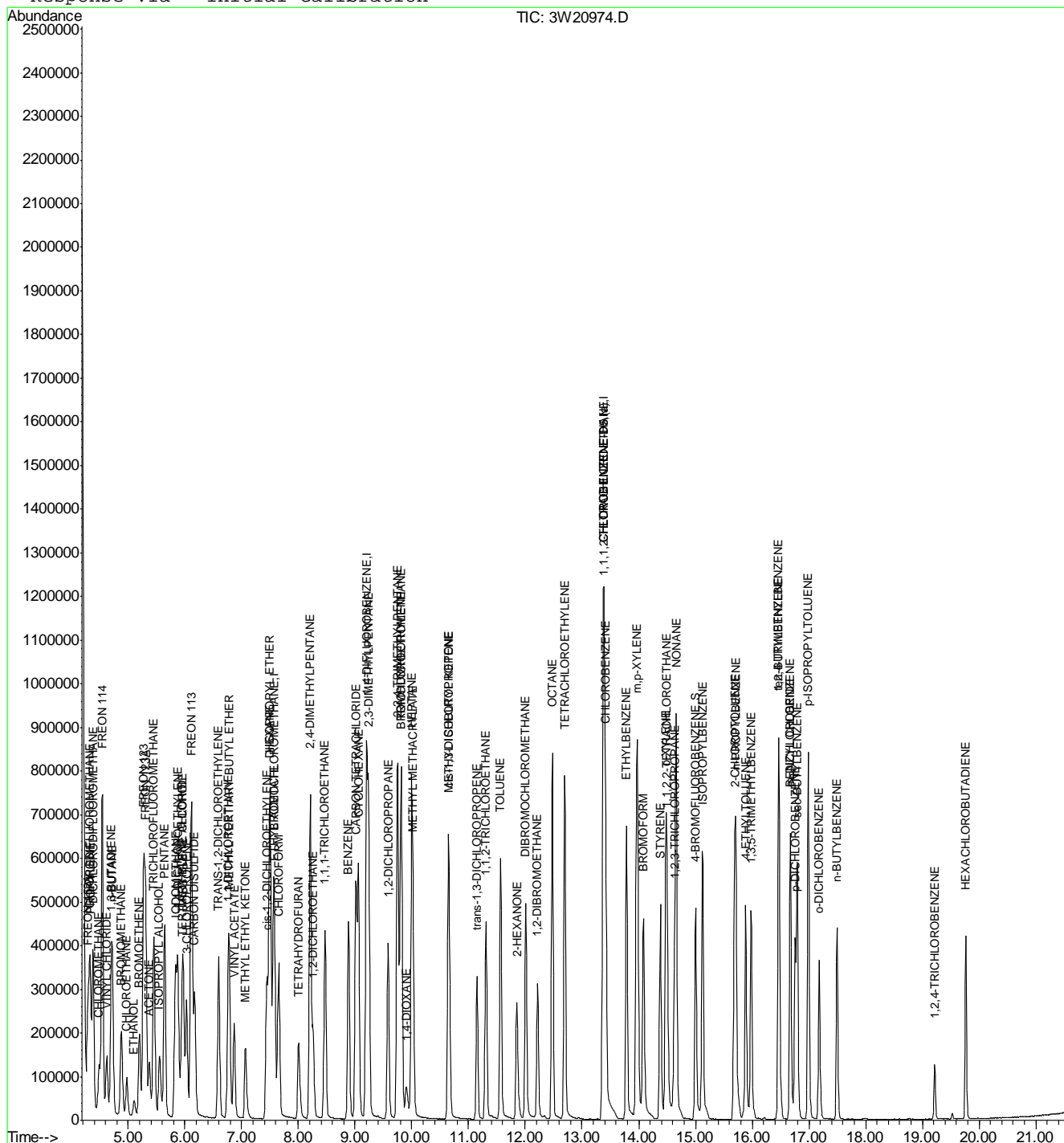
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20974.D
Acq On : 24 Feb 2011 8:45 am
Sample : BSD
Misc : MS8082,V3W828,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 24 9:15 2011

Vial: 3
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21004.D
Acq On : 25 Feb 2011 8:54 am
Sample : BS
Misc : MS8082,V3W829,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 09:57:53 2011

Vial: 3
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Feb 25 07:11:01 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	166460	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.21	114	827514	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	402315	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	402868	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.01	95	234329	5.48	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	109.60%

Target Compounds

						Qvalue
3) FREON 152A	4.29	65	120885	8.96	PPBV	95
4) CHLORODIFLUOROMETHANE	4.32	67	47601	9.67	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.38	85	481750	9.83	PPBV	100
6) PROPYLENE	4.33	41	182313	9.86	PPBV	99
7) FREON 114	4.54	85	557122	9.84	PPBV	97
8) CHLOROMETHANE	4.49	50	234544	11.25	PPBV	90
9) VINYL CHLORIDE	4.62	62	211014	10.56	PPBV	99
10) 1,3-BUTADIENE	4.70	54	161294	10.16	PPBV	96
11) n-BUTANE	4.73	43	352636	10.94	PPBV	98
12) BROMOMETHANE	4.88	94	202251	10.02	PPBV	98
13) CHLOROETHANE	4.98	64	114149	11.84	PPBV	98
14) FREON 123	5.27	83	443211	10.64	PPBV	99
15) FREON 123A	5.31	117	245744	10.24	PPBV	88
16) TRICHLOROFLUOROMETHANE	5.46	101	487194	10.20	PPBV	100
17) ISOPROPYL ALCOHOL	5.58	45	287103	10.57	PPBV	98
18) ACETONE	5.39	58	62546	9.51	PPBV	90
19) PENTANE	5.64	42	248290	11.20	PPBV	98
21) IODOMETHANE	5.84	142	570836	10.46	PPBV	97
22) 1,1-DICHLOROETHYLENE	5.88	96	190116	9.64	PPBV	93
23) CARBON DISULFIDE	6.17	76	584894	10.01	PPBV	97
24) ETHANOL	5.13	45	63585	9.38	PPBV	99
25) BROMOETHENE	5.20	106	205562	10.36	PPBV	100
26) METHYLENE CHLORIDE	5.97	84	170735	11.00	PPBV	93
27) 3-CHLOROPROPENE	6.03	76	80627	11.45	PPBV #	69
28) FREON 113	6.12	151	336355	10.13	PPBV	96
29) TRANS-1,2-DICHLOROETHYLENE	6.60	96	205219	10.95	PPBV	95
30) TERTIARY BUTYL ALCOHOL	5.97	59	335635	10.83	PPBV	96
31) METHYL TERTIARY BUTYL ETHER	6.79	73	351784	8.66	PPBV	97
32) TETRAHYDROFURAN	8.02	72	63332	9.52	PPBV #	86
33) HEXANE	7.49	57	322822	10.83	PPBV	99
34) VINYL ACETATE	6.88	86	30419	10.01	PPBV #	70
35) 1,1-DICHLOROETHANE	6.77	63	339409	11.22	PPBV	99
36) METHYL ETHYL KETONE	7.09	72	64401	10.46	PPBV #	83
37) cis-1,2-DICHLOROETHYLENE	7.45	96	190158	10.85	PPBV	94
38) DIISOPROPYL ETHER	7.52	45	471821	9.87	PPBV	99
39) ETHYL ACETATE	7.60	61	42501	9.86	PPBV #	88
40) CHLOROFORM	7.66	83	374933	10.98	PPBV	98
41) 2,4-DIMETHYLPENTANE	8.22	57	406525	11.95	PPBV	98
42) 1,1,1-TRICHLOROETHANE	8.48	97	368659	10.96	PPBV	99
43) CARBON TETRACHLORIDE	9.02	117	422071	11.33	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W21004.D M3W821.M Fri Feb 25 10:00:47 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21004.D
 Acq On : 25 Feb 2011 8:54 am
 Sample : BS
 Misc : MS8082,V3W829,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 25 09:57:53 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri Feb 25 07:11:01 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.27	62	211857	12.73	PPBV	99
46) BENZENE	8.89	78	529038	10.69	PPBV	99
47) CYCLOHEXANE	9.06	56	339724	10.71	PPBV	95
48) 2,3-DIMETHYLPENTANE	9.25	71	139891	11.22	PPBV	94
49) TRICHLOROETHYLENE	9.82	95	235751	9.71	PPBV	96
50) 1,2-DICHLOROPROPANE	9.59	63	199349	10.96	PPBV	99
51) BROMODICHLOROMETHANE	9.81	83	380130	11.12	PPBV	99
52) 2,2,4-TRIMETHYLPENTANE	9.76	57	932178	11.02	PPBV	99
53) 1,4-DIOXANE	9.92	88	90998	10.54	PPBV	95
54) HEPTANE	10.01	43	399400	11.59	PPBV	94
56) METHYL METHACRYLATE	10.04	69	130732	10.05	PPBV #	13
57) METHYL ISOBUTYL KETONE	10.68	58	121544	10.95	PPBV #	90
58) cis-1,3-DICHLOROPROPENE	10.65	75	290731	12.43	PPBV	94
59) TOLUENE	11.58	92	340192	10.72	PPBV	99
60) trans-1,3-DICHLOROPROPENE	11.16	75	226382	13.14	PPBV	93
61) 1,1,2-TRICHLOROETHANE	11.32	83	175160	12.10	PPBV	99
63) 2-HEXANONE	11.87	58	152721	10.61	PPBV	96
64) TETRACHLOROETHYLENE	12.70	164	252676	8.85	PPBV	99
65) DIBROMOCHLOROMETHANE	12.02	129	361479	10.31	PPBV	98
66) 1,2-DIBROMOETHANE	12.23	107	284607	10.96	PPBV	100
67) OCTANE	12.48	43	488692	10.86	PPBV	92
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	239774	9.90	PPBV	97
69) CHLOROBENZENE	13.43	112	397164	9.74	PPBV	97
70) ETHYLBENZENE	13.79	91	647437	10.19	PPBV	99
71) m,p-XYLENE	13.98	106	464566	19.60	PPBV	98
72) o-XYLENE	14.49	106	218204	9.79	PPBV	98
73) STYRENE	14.39	104	314166	12.01	PPBV	98
74) NONANE	14.67	43	430849	11.62	PPBV	95
75) BROMOFORM	14.10	173	307480	10.06	PPBV	99
77) 1,1,2,2-TETRACHLOROETHANE	14.51	83	287439	12.22	PPBV	98
78) 1,2,3-TRICHLOROPROPANE	14.64	75	208646	11.43	PPBV	98
79) ISOPROPYLBENZENE	15.14	105	589084	9.69	PPBV	99
80) 2-CHLOROTOLUENE	15.70	126	142204	10.18	PPBV	100
81) n-PROPYLBENZENE	15.72	120	126919	8.89	PPBV	99
82) 4-ETHYLTOLUENE	15.90	105	439768	9.52	PPBV	99
83) 1,3,5-TRIMETHYLBENZENE	15.99	105	357170	9.12	PPBV	98
84) tert-BUTYLBENZENE	16.47	134	82670	8.47	PPBV	95
85) 1,2,4-TRIMETHYLBENZENE	16.49	105	325222	9.73	PPBV	95
86) m-DICHLOROBENZENE	16.68	146	239916	11.47	PPBV	99
87) BENZYL CHLORIDE	16.69	91	233197	10.40	PPBV	99
88) p-DICHLOROBENZENE	16.77	146	225539	10.77	PPBV	100
89) sec-BUTYLBENZENE	16.80	134	96099	9.65	PPBV	93
90) p-ISOPROPYLTOLUENE	17.00	134	97310	9.22	PPBV	99
91) o-DICHLOROBENZENE	17.19	146	196576	10.87	PPBV	99
92) n-BUTYLBENZENE	17.51	134	75787	9.73	PPBV #	90
93) HEXACHLOROBUTADIENE	19.77	225	90265	13.05	PPBV	98
94) 1,2,4-TRICHLOROBENZENE	19.22	180	48865	11.36	PPBV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21004.D M3W821.M Fri Feb 25 10:00:47 2011 MS3W

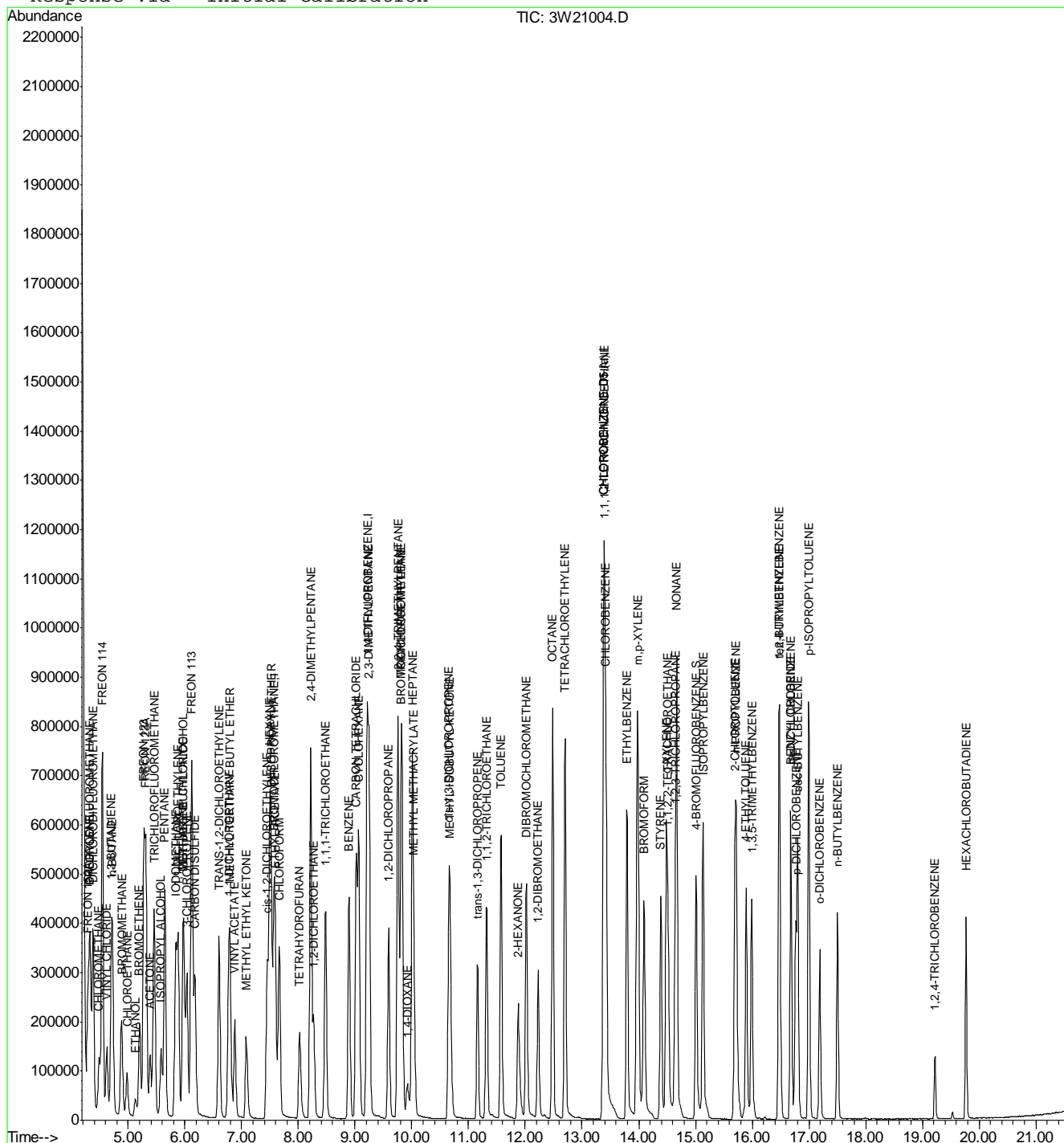
Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\3W21004.D
Acq On    : 25 Feb 2011    8:54 am
Sample    : BS
Misc      : MS8082,V3W829,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25    9:59 2011
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Vial: 3
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



6.3.3 9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21005.D
 Acq On : 25 Feb 2011 9:34 am
 Sample : BSD
 Misc : MS8082,V3W829,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 25 09:57:10 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri Feb 25 07:11:01 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	174989	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.21	114	889273	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	424973	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	425518	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.01	95	247257	5.47	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	109.40%

Target Compounds

Qvalue

3) FREON 152A	4.29	65	124288	8.77	PPBV	99
4) CHLORODIFLUOROMETHANE	4.31	67	46816	9.05	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.38	85	476717	9.25	PPBV	100
6) PROPYLENE	4.33	41	181471	9.33	PPBV	99
7) FREON 114	4.54	85	554800	9.33	PPBV	96
8) CHLOROMETHANE	4.49	50	230204	10.51	PPBV	91
9) VINYL CHLORIDE	4.62	62	205283	9.77	PPBV	99
10) 1,3-BUTADIENE	4.70	54	161602	9.69	PPBV	96
11) n-BUTANE	4.73	43	352552	10.40	PPBV	98
12) BROMOMETHANE	4.88	94	201147	9.48	PPBV	99
13) CHLOROETHANE	4.98	64	112908	11.14	PPBV	99
14) FREON 123	5.27	83	452504	10.34	PPBV	99
15) FREON 123A	5.31	117	249711	9.89	PPBV	88
16) TRICHLOROFLUOROMETHANE	5.46	101	485901	9.68	PPBV	100
17) ISOPROPYL ALCOHOL	5.58	45	287993	10.08	PPBV	99
18) ACETONE	5.38	58	63355	9.17	PPBV	92
19) PENTANE	5.64	42	248666	10.67	PPBV	99
21) IODOMETHANE	5.84	142	575250	10.03	PPBV	97
22) 1,1-DICHLOROETHYLENE	5.88	96	191553	9.24	PPBV	94
23) CARBON DISULFIDE	6.17	76	580679	9.45	PPBV	98
24) ETHANOL	5.12	45	65097	9.13	PPBV	99
25) BROMOETHENE	5.21	106	206107	9.88	PPBV	98
26) METHYLENE CHLORIDE	5.97	84	167418	10.26	PPBV	93
27) 3-CHLOROPROPENE	6.03	76	82446	11.14	PPBV #	73
28) FREON 113	6.12	151	336702	9.65	PPBV	96
29) TRANS-1,2-DICHLOROETHYLENE	6.60	96	207954	10.55	PPBV	96
30) TERTIARY BUTYL ALCOHOL	5.97	59	335364	10.29	PPBV	95
31) METHYL TERTIARY BUTYL ETHER	6.79	73	364626	8.54	PPBV	97
32) TETRAHYDROFURAN	8.02	72	66453	9.50	PPBV #	88
33) HEXANE	7.49	57	322680	10.30	PPBV	99
34) VINYL ACETATE	6.88	86	32746	10.25	PPBV #	62
35) 1,1-DICHLOROETHANE	6.76	63	348735	10.97	PPBV	99
36) METHYL ETHYL KETONE	7.08	72	64759	10.01	PPBV #	79
37) cis-1,2-DICHLOROETHYLENE	7.45	96	191935	10.42	PPBV	93
38) DIISOPROPYL ETHER	7.52	45	483865	9.63	PPBV	98
39) ETHYL ACETATE	7.60	61	44310	9.78	PPBV #	93
40) CHLOROFORM	7.66	83	383272	10.68	PPBV	98
41) 2,4-DIMETHYLPENTANE	8.22	57	404885	11.32	PPBV	98
42) 1,1,1-TRICHLOROETHANE	8.47	97	377837	10.69	PPBV	99
43) CARBON TETRACHLORIDE	9.02	117	426270	10.88	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W21005.D M3W821.M Fri Feb 25 10:00:48 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21005.D
 Acq On : 25 Feb 2011 9:34 am
 Sample : BSD
 Misc : MS8082,V3W829,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 25 09:57:10 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri Feb 25 07:11:01 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.27	62	220479	12.60	PPBV	99
46) BENZENE	8.89	78	551461	10.37	PPBV	99
47) CYCLOHEXANE	9.06	56	338869	9.94	PPBV	96
48) 2,3-DIMETHYLPENTANE	9.25	71	140585	10.49	PPBV	93
49) TRICHLOROETHYLENE	9.83	95	241618	9.26	PPBV	97
50) 1,2-DICHLOROPROPANE	9.59	63	211227	10.80	PPBV	99
51) BROMODICHLOROMETHANE	9.81	83	392364	10.68	PPBV	100
52) 2,2,4-TRIMETHYLPENTANE	9.76	57	958816	10.55	PPBV	99
53) 1,4-DIOXANE	9.92	88	90779	9.79	PPBV	94
54) HEPTANE	10.01	43	403818	10.91	PPBV	94
56) METHYL METHACRYLATE	10.04	69	134156	9.60	PPBV #	13
57) METHYL ISOBUTYL KETONE	10.68	58	124609	10.45	PPBV	91
58) cis-1,3-DICHLOROPROPENE	10.65	75	304889	12.13	PPBV	95
59) TOLUENE	11.58	92	364058	10.67	PPBV	100
60) trans-1,3-DICHLOROPROPENE	11.16	75	242722	13.11	PPBV	93
61) 1,1,2-TRICHLOROETHANE	11.31	83	184406	11.86	PPBV	99
63) 2-HEXANONE	11.87	58	159877	10.52	PPBV	95
64) TETRACHLOROETHYLENE	12.70	164	261071	8.66	PPBV	98
65) DIBROMOCHLOROMETHANE	12.02	129	379085	10.24	PPBV	99
66) 1,2-DIBROMOETHANE	12.23	107	306911	11.19	PPBV	99
67) OCTANE	12.48	43	509701	10.72	PPBV	93
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	260991	10.20	PPBV	99
69) CHLOROBENZENE	13.43	112	426316	9.90	PPBV	97
70) ETHYLBENZENE	13.79	91	708928	10.56	PPBV	99
71) m,p-XYLENE	13.98	106	515406	20.59	PPBV	99
72) o-XYLENE	14.49	106	243681	10.35	PPBV	98
73) STYRENE	14.39	104	347218	12.56	PPBV	99
74) NONANE	14.67	43	458980	11.71	PPBV	95
75) BROMOFORM	14.10	173	329730	10.21	PPBV	99
77) 1,1,2,2-TETRACHLOROETHANE	14.51	83	314402	12.65	PPBV	99
78) 1,2,3-TRICHLOROPROPANE	14.64	75	227916	11.82	PPBV	99
79) ISOPROPYLBENZENE	15.14	105	654442	10.19	PPBV	99
80) 2-CHLOROTOLUENE	15.70	126	152386	10.32	PPBV	100
81) n-PROPYLBENZENE	15.73	120	141666	9.40	PPBV	99
82) 4-ETHYLTOLUENE	15.90	105	481634	9.87	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.99	105	387025	9.36	PPBV	98
84) tert-BUTYLBENZENE	16.47	134	89550	8.68	PPBV	97
85) 1,2,4-TRIMETHYLBENZENE	16.49	105	347431	9.84	PPBV	96
86) m-DICHLOROBENZENE	16.68	146	261943	11.86	PPBV	99
87) BENZYL CHLORIDE	16.69	91	247574	10.45	PPBV	98
88) p-DICHLOROBENZENE	16.77	146	244417	11.05	PPBV	99
89) sec-BUTYLBENZENE	16.80	134	102506	9.74	PPBV #	92
90) p-ISOPROPYLTOLUENE	17.00	134	100492	9.01	PPBV	99
91) o-DICHLOROBENZENE	17.19	146	217841	11.41	PPBV	99
92) n-BUTYLBENZENE	17.51	134	78817	9.58	PPBV #	90
93) HEXACHLOROBUTADIENE	19.77	225	101237	13.86	PPBV	98
94) 1,2,4-TRICHLOROBENZENE	19.22	180	53168	11.70	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21005.D M3W821.M Fri Feb 25 10:00:48 2011 MS3W

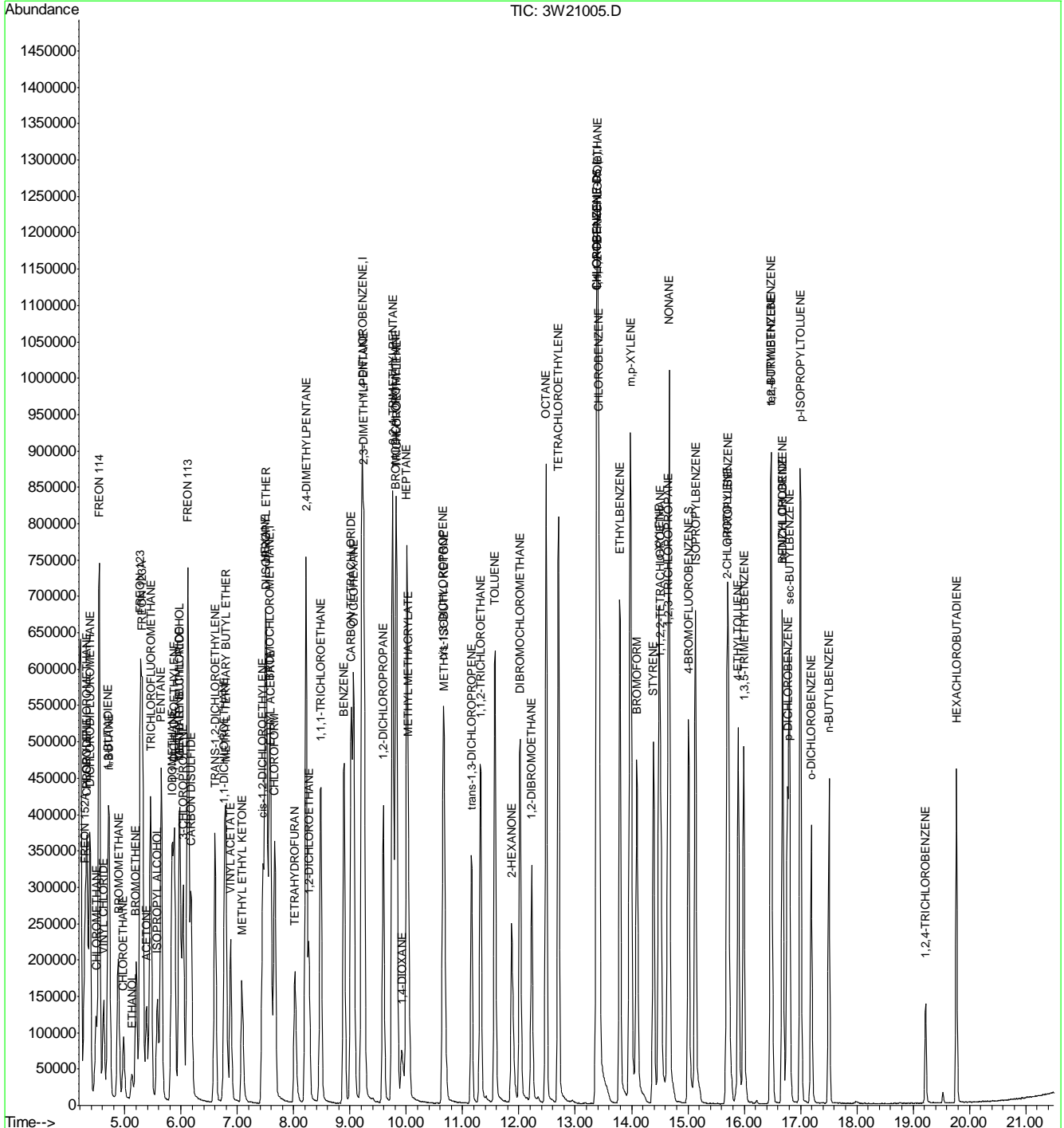
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21005.D
Acq On : 25 Feb 2011 9:34 am
Sample : BSD
Misc : MS8082,V3W829,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:59 2011

Vial: 3
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



6.3.4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30127.D
 Acq On : 11 Feb 2011 9:52 am
 Sample : BS
 Misc : MS7890,VW1236,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 14 08:18:00 2011

Vial: 3
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	114937	10.00	PPBV	-0.05
46) 1,4-DIFLUOROBENZENE	10.46	114	537952	10.00	PPBV	-0.04
63) CHLOROBENZENE-D5	14.71	82	277727	10.00	PPBV	-0.02
96) Chlorobenzene-d5(a)	14.71	82	276806	10.00	PPBV	-0.02

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE 16.35 95 160924 5.06 PPBV -0.02
 Spiked Amount 5.000 Range 65 - 128 Recovery = 101.20%

Target Compounds

Qvalue

3) FREON 152A	4.89	65	55009	8.49	PPBV	89
4) CHLORODIFLUOROMETHANE	4.93	67	58141	10.55	PPBV	98
5) DICHLORODIFLUOROMETHANE	5.02	85	475106	9.68	PPBV	98
6) PROPYLENE	4.96	41	63802	9.33	PPBV	97
7) FREON 114	5.24	85	412959	9.37	PPBV	99
8) CHLOROMETHANE	5.16	52	23967	9.83	PPBV #	71
9) VINYL CHLORIDE	5.33	62	99835	9.34	PPBV	99
10) 1,3-BUTADIENE	5.45	54	75727	9.06	PPBV #	90
11) n-BUTANE	5.49	43	141754	8.89	PPBV #	99
12) BROMOMETHANE	5.68	94	119118	9.62	PPBV	98
13) CHLOROETHANE	5.80	64	59084	10.02	PPBV	99
14) ACROLEIN	6.18	56	35824	10.10	PPBV	99
15) FREON 123	6.18	83	320379	10.25	PPBV #	98
16) FREON 123A	6.22	117	248378	10.32	PPBV	98
17) TRICHLOROFLUOROMETHANE	6.40	101	565799	10.05	PPBV	100
18) ISOPROPYL ALCOHOL	6.52	45	196491	9.48	PPBV	97
19) ACETONE	6.29	58	44907	9.11	PPBV #	90
20) PENTANE	6.66	57	30849	10.93	PPBV #	90
21) TVHC as EQUIV PENTANE	6.66	TIC	620613m	11.23	PPBV	
22) IODOMETHANE	6.86	142	429776	11.53	PPBV	90
23) 1,1-DICHLOROETHYLENE	6.90	96	131760	10.11	PPBV	99
24) CARBON DISULFIDE	7.27	76	325969	9.24	PPBV	96
25) ETHANOL	5.96	45	35771	9.16	PPBV	90
26) BROMOETHENE	6.08	106	139645	10.30	PPBV	97
27) METHYLENE CHLORIDE	6.99	84	103627	9.30	PPBV	93
28) 3-CHLOROPROPENE	7.08	76	56300	9.85	PPBV #	74
29) FREON 113	7.19	151	313264	10.56	PPBV	92
30) TRANS-1,2-DICHLOROETHYLENE	7.74	96	141066	9.30	PPBV	100
31) TERTIARY BUTYL ALCOHOL	6.99	59	316251	9.01	PPBV	94
32) METHYL TERTIARY BUTYL ETHER	7.96	73	457432	9.55	PPBV	97
33) TETRAHYDROFURAN	9.27	72	54081	9.26	PPBV	96
34) HEXANE	8.77	57	174217	8.92	PPBV	92
35) VINYL ACETATE	8.02	86	33015	9.45	PPBV #	80
36) 1,1-DICHLOROETHANE	7.91	63	239624	9.67	PPBV	99
37) METHYL ETHYL KETONE	8.26	72	51866	8.86	PPBV	98
38) cis-1,2-DICHLOROETHYLENE	8.61	96	140011	9.22	PPBV	99
39) DI-ISOPROPYL ETHER	8.77	45	368121	9.20	PPBV	99
40) ETHYL ACETATE	8.79	61	29683	9.09	PPBV #	73
41) CHLOROFORM	8.88	83	350557	9.33	PPBV	98
42) 2,4-DIMETHYLPENTANE	9.54	57	214385	9.36	PPBV	99

(#) = qualifier out of range (m) = manual integration

W30127.D MW1222.M Mon Feb 14 10:30:37 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30127.D
 Acq On : 11 Feb 2011 9:52 am
 Sample : BS
 Misc : MS7890,VW1236,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 14 08:18:00 2011

Vial: 3
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,1,1-TRICHLOROETHANE	9.75	97	464320	9.61	PPBV	99
44) CARBON TETRACHLORIDE	10.30	117	517233	9.52	PPBV	99
45) 1,2-DICHLOROETHANE	9.53	62	284896	10.08	PPBV	99
47) BENZENE	10.17	78	384088	9.45	PPBV	98
48) CYCLOHEXANE	10.41	84	187095	9.11	PPBV	99
49) 2,3-DIMETHYLPENTANE	10.60	71	88929	9.69	PPBV	100
50) TRICHLOROETHYLENE	11.13	95	206800	9.77	PPBV	94
51) 1,2-DICHLOROPROPANE	10.91	63	114526	9.46	PPBV	93
52) BROMODICHLOROMETHANE	11.10	83	398765	9.98	PPBV	100
53) 2,2,4-TRIMETHYLPENTANE	11.14	57	583969	9.67	PPBV	98
54) 1,4-DIOXANE	11.19	88	72356	8.29	PPBV #	1
55) METHYL METHACRYLATE	11.30	69	118492	9.03	PPBV	92
56) HEPTANE	11.37	43	194176	9.54	PPBV	98
57) TVHC as EQUIV HEPTANE	11.37	TIC	1151944m	10.41	PPBV	
58) METHYL ISOBUTYL KETONE	12.00	43	231551	9.33	PPBV	96
59) cis-1,3-DICHLOROPROPENE	11.94	75	239214	9.87	PPBV	92
60) TOLUENE	12.91	92	308260	10.27	PPBV	98
61) trans-1,3-DICHLOROPROPENE	12.45	75	230573	10.18	PPBV	91
62) 1,1,2-TRICHLOROETHANE	12.64	83	120959	9.73	PPBV	98
64) 2-HEXANONE	13.19	43	211487	9.27	PPBV	94
65) TETRACHLOROETHYLENE	14.05	164	251949	11.11	PPBV	97
66) DIBROMOCHLOROMETHANE	13.35	129	370447	10.73	PPBV	100
67) 1,2-DIBROMOETHANE	13.60	107	237080	10.58	PPBV	99
68) OCTANE	13.86	43	260889	10.80	PPBV	99
69) 1,1,1,2-TETRACHLOROETHANE	14.74	131	287866	11.12	PPBV #	99
70) CHLOROBENZENE	14.76	112	409021	10.66	PPBV	97
71) ETHYLBENZENE	15.14	91	679365	10.67	PPBV	98
72) m,p-XYLENE	15.33	106	524133	22.40	PPBV	100
73) o-XYLENE	15.85	106	243292	10.91	PPBV	99
74) STYRENE	15.73	104	351625	11.36	PPBV	100
75) 1,2,3-TRICHLOROPROPANE	16.00	75	224600	10.27	PPBV	98
76) NONANE	16.05	43	257527	12.39	PPBV	97
77) BROMOFORM	15.45	173	336117	10.75	PPBV	98
79) 1,1,2,2-TETRACHLOROETHANE	15.86	83	235526	10.23	PPBV	99
80) ISOPROPYLBENZENE	16.49	105	780397	11.01	PPBV	99
81) 2-CHLOROTOLUENE	17.02	126	167022	11.46	PPBV #	98
82) n-PROPYLBENZENE	17.06	120	195023	11.84	PPBV	88
83) 4-ETHYLTOLUENE	17.22	105	666295	11.75	PPBV	98
84) 1,3,5-TRIMETHYLBENZENE	17.30	105	582723	12.00	PPBV	99
85) TERT-BUTYLBENZENE	17.76	134	142002	11.32	PPBV	97
86) 1,2,4-TRIMETHYLBENZENE	17.76	105	548682	11.64	PPBV	97
87) m-DICHLOROBENZENE	17.94	146	313524	11.16	PPBV	98
88) BENZYL CHLORIDE	17.92	91	333503	9.90	PPBV	98
89) p-DICHLOROBENZENE	18.02	146	294125	11.06	PPBV	98
90) SEC-BUTYLBENZENE	18.06	134	162989	11.19	PPBV	88
91) p-ISOPROPYLTOLUENE	18.24	134	154221	11.07	PPBV	99
92) o-DICHLOROBENZENE	18.41	146	268122	11.04	PPBV	98
93) n-BUTYLBENZENE	18.72	134	110904	11.16	PPBV	88
94) HEXACHLOROBUTADIENE	20.85	225	72003	9.47	PPBV	99

(#) = qualifier out of range (m) = manual integration

W30127.D MW1222.M Mon Feb 14 10:30:38 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30127.D Vial: 3
Acq On : 11 Feb 2011 9:52 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS7890,VW1236,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 14 08:18:00 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,2,4-TRICHLOROBENZENE	20.35	180	44840	10.62	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W30127.D MW1222.M Mon Feb 14 10:30:38 2011 MSW

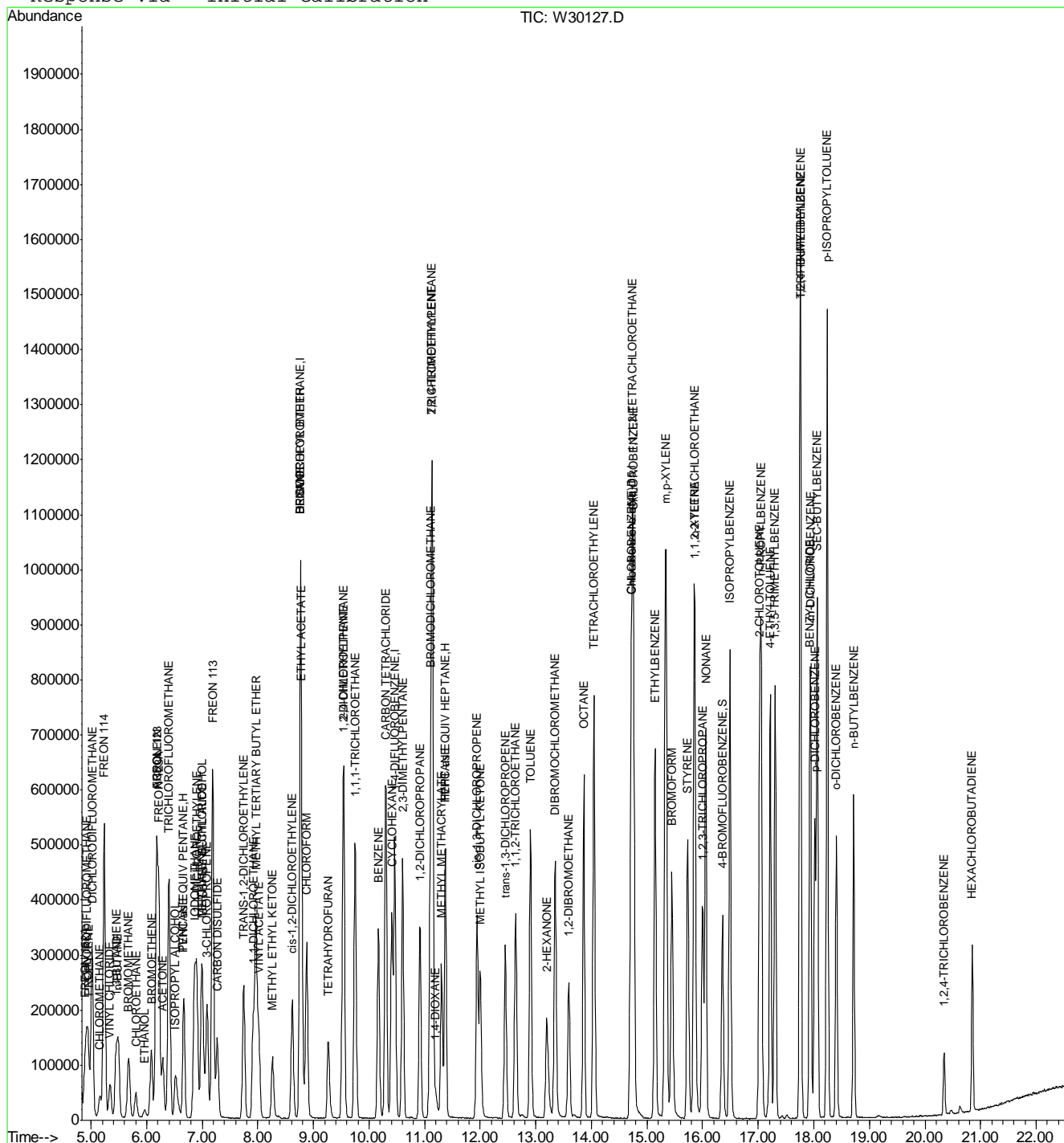
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30127.D
Acq On : 11 Feb 2011 9:52 am
Sample : BS
Misc : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:03 2011

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Initial Calibration



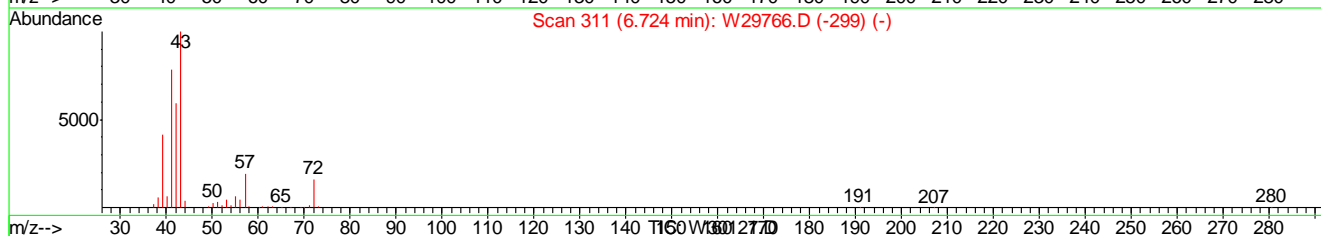
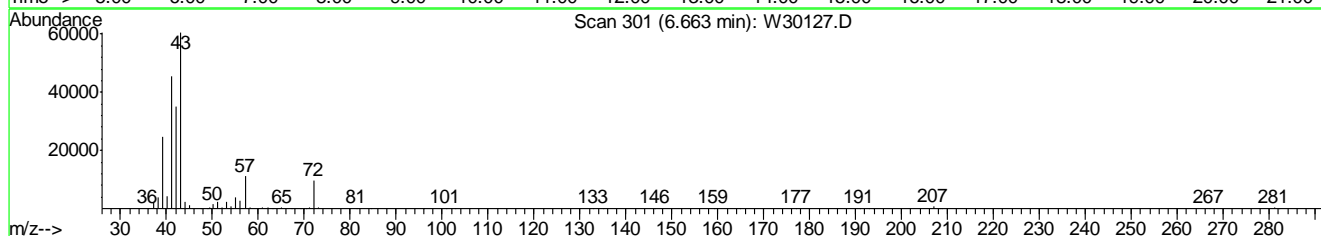
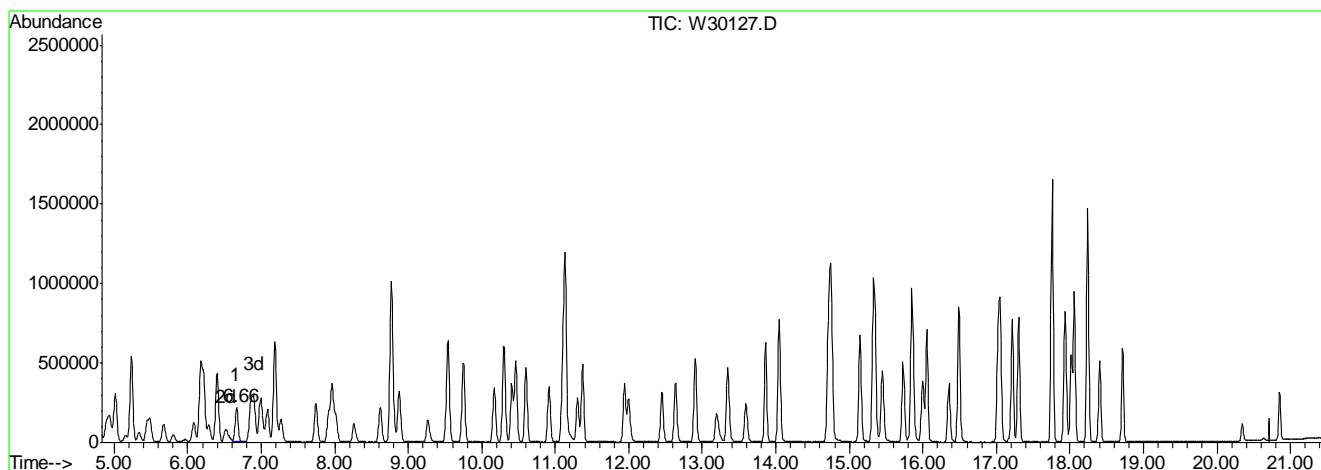
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W30127.D
Acq On : 11 Feb 2011 9:52 am
Sample : BS
Misc : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:03 2011

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.66min 11.23PPBV m

response 620613

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.00	0.11#
------	------	-------

0.00	0.00	0.10#
------	------	-------

0.00	0.00	0.00
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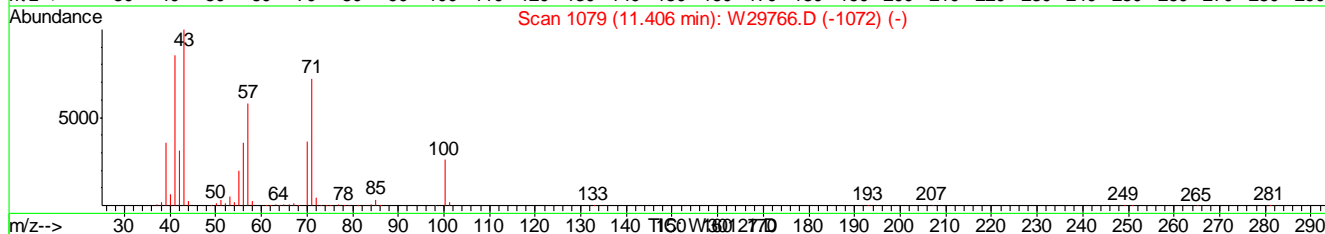
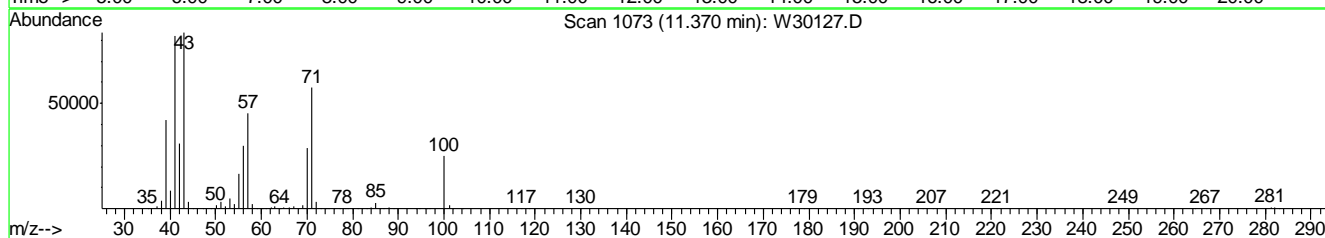
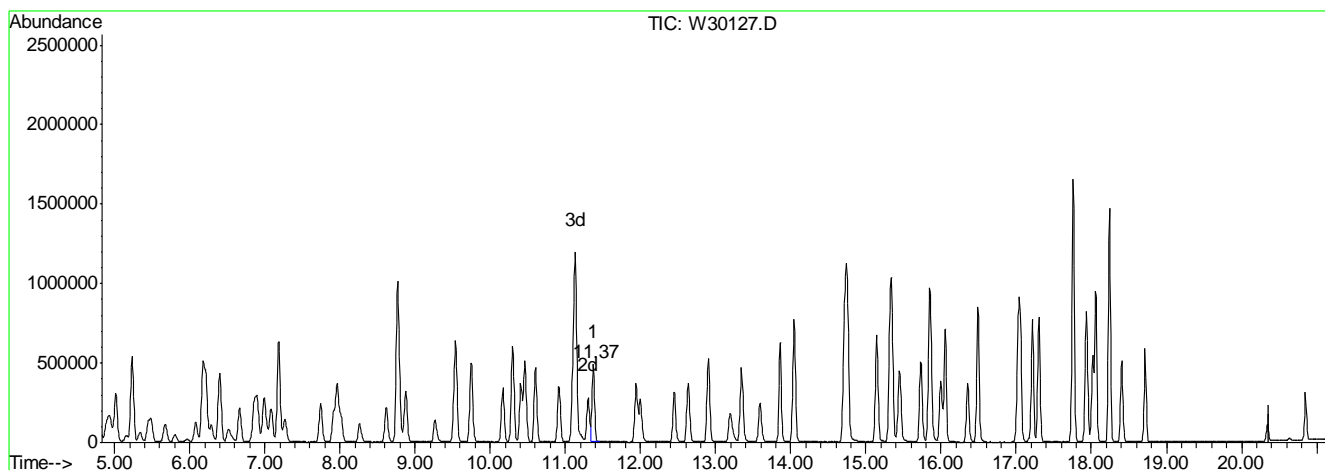
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W30127.D
Acq On : 11 Feb 2011 9:52 am
Sample : BS
Misc : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:03 2011

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.37min 10.41PPBV m

response 1151944

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.06#
0.00	0.00	0.05#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30128.D
 Acq On : 11 Feb 2011 10:32 am
 Sample : BSD
 Misc : MS7890,VW1236,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 14 08:18:06 2011

Vial: 3
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	110772	10.00	PPBV	-0.05
46) 1,4-DIFLUOROBENZENE	10.46	114	523327	10.00	PPBV	-0.04
63) CHLOROBENZENE-D5	14.71	82	277627	10.00	PPBV	-0.02
96) Chlorobenzene-d5(a)	14.71	82	277528	10.00	PPBV	-0.02

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE	16.35	95	157931	4.97	PPBV	-0.02
Spiked Amount	5.000	Range	65 - 128	Recovery	=	99.40%

Target Compounds

						Qvalue
3) FREON 152A	4.89	65	54927	8.80	PPBV	90
4) CHLORODIFLUOROMETHANE	4.93	67	58348	10.98	PPBV	98
5) DICHLORODIFLUOROMETHANE	5.02	85	487796	10.32	PPBV	99
6) PROPYLENE	4.96	41	66837	10.14	PPBV	100
7) FREON 114	5.24	85	418730	9.86	PPBV	98
8) CHLOROMETHANE	5.16	52	24520	10.44	PPBV #	82
9) VINYL CHLORIDE	5.34	62	99385	9.64	PPBV	99
10) 1,3-BUTADIENE	5.45	54	77625	9.64	PPBV	91
11) n-BUTANE	5.49	43	145752	9.49	PPBV #	98
12) BROMOMETHANE	5.68	94	121672	10.20	PPBV	99
13) CHLOROETHANE	5.80	64	60284	10.61	PPBV	98
14) ACROLEIN	6.18	56	35135	10.28	PPBV	98
15) FREON 123	6.18	83	324899	10.79	PPBV #	98
16) FREON 123A	6.22	117	250060	10.78	PPBV	98
17) TRICHLOROFLUOROMETHANE	6.40	101	572336	10.55	PPBV	99
18) ISOPROPYL ALCOHOL	6.51	45	194892	9.76	PPBV	98
19) ACETONE	6.29	58	43595	9.18	PPBV #	88
20) PENTANE	6.66	57	31016	11.41	PPBV #	87
21) TVHC as EQUIV PENTANE	6.66	TIC	628721m	11.81	PPBV	
22) IODOMETHANE	6.86	142	432896	12.05	PPBV	90
23) 1,1-DICHLOROETHYLENE	6.90	96	134287	10.69	PPBV	99
24) CARBON DISULFIDE	7.27	76	326635	9.61	PPBV	96
25) ETHANOL	5.95	45	32830	8.72	PPBV	76
26) BROMOETHENE	6.08	106	139980	10.72	PPBV	97
27) METHYLENE CHLORIDE	6.99	84	104907	9.77	PPBV	94
28) 3-CHLOROPROPENE	7.08	76	55700	10.11	PPBV #	74
29) FREON 113	7.18	151	310438	10.86	PPBV	94
30) TRANS-1,2-DICHLOROETHYLENE	7.74	96	140959	9.64	PPBV	100
31) TERTIARY BUTYL ALCOHOL	6.98	59	324884	9.61	PPBV	97
32) METHYL TERTIARY BUTYL ETHER	7.96	73	447162	9.69	PPBV	97
33) TETRAHYDROFURAN	9.25	72	52338	9.30	PPBV	97
34) HEXANE	8.77	57	176905	9.40	PPBV	94
35) VINYL ACETATE	8.01	86	32288	9.59	PPBV #	77
36) 1,1-DICHLOROETHANE	7.91	63	236293	9.89	PPBV	99
37) METHYL ETHYL KETONE	8.25	72	50350	8.93	PPBV	92
38) cis-1,2-DICHLOROETHYLENE	8.61	96	141627	9.68	PPBV	99
39) DI-ISOPROPYL ETHER	8.76	45	358373	9.30	PPBV	100
40) ETHYL ACETATE	8.79	61	29864	9.49	PPBV #	81
41) CHLOROFORM	8.87	83	355167	9.81	PPBV	98
42) 2,4-DIMETHYLPENTANE	9.54	57	213748	9.68	PPBV	98

(#) = qualifier out of range (m) = manual integration

W30128.D MW1222.M Mon Feb 14 10:30:54 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30128.D
 Acq On : 11 Feb 2011 10:32 am
 Sample : BSD
 Misc : MS7890,VW1236,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 14 08:18:06 2011

Vial: 3
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,1,1-TRICHLOROETHANE	9.75	97	468176	10.05	PPBV	98
44) CARBON TETRACHLORIDE	10.30	117	525238	10.03	PPBV	99
45) 1,2-DICHLOROETHANE	9.52	62	289312	10.63	PPBV	99
47) BENZENE	10.16	78	386969	9.79	PPBV	99
48) CYCLOHEXANE	10.41	84	191978	9.61	PPBV	99
49) 2,3-DIMETHYLPENTANE	10.60	71	89233	9.99	PPBV	99
50) TRICHLOROETHYLENE	11.13	95	208900	10.15	PPBV	94
51) 1,2-DICHLOROPROPANE	10.91	63	113949	9.67	PPBV	93
52) BROMODICHLOROMETHANE	11.10	83	404324	10.41	PPBV	100
53) 2,2,4-TRIMETHYLPENTANE	11.14	57	591673	10.07	PPBV	99
54) 1,4-DIOXANE	11.19	88	71731	8.45	PPBV #	1
55) METHYL METHACRYLATE	11.30	69	111431	8.72	PPBV	88
56) HEPTANE	11.37	43	193797	9.79	PPBV	97
57) TVHC as EQUIV HEPTANE	11.37	TIC	1146911m	10.66	PPBV	
58) METHYL ISOBUTYL KETONE	11.99	43	234068	9.69	PPBV	97
59) cis-1,3-DICHLOROPROPENE	11.94	75	240257	10.19	PPBV	88
60) TOLUENE	12.90	92	301336	10.32	PPBV	99
61) trans-1,3-DICHLOROPROPENE	12.45	75	228439	10.37	PPBV	90
62) 1,1,2-TRICHLOROETHANE	12.63	83	121457	10.05	PPBV	98
64) 2-HEXANONE	13.19	43	207893	9.11	PPBV	96
65) TETRACHLOROETHYLENE	14.05	164	255817	11.28	PPBV	96
66) DIBROMOCHLOROMETHANE	13.35	129	375021	10.87	PPBV	100
67) 1,2-DIBROMOETHANE	13.59	107	240269	10.73	PPBV	99
68) OCTANE	13.86	43	258473	10.71	PPBV	99
69) 1,1,1,2-TETRACHLOROETHANE	14.73	131	288339	11.15	PPBV #	99
70) CHLOROBENZENE	14.75	112	408222	10.65	PPBV	98
71) ETHYLBENZENE	15.14	91	671079	10.54	PPBV	98
72) m,p-XYLENE	15.33	106	517623	22.13	PPBV	99
73) o-XYLENE	15.84	106	244329	10.96	PPBV	97
74) STYRENE	15.73	104	345965	11.19	PPBV	100
75) 1,2,3-TRICHLOROPROPANE	16.00	75	219034	10.02	PPBV	97
76) NONANE	16.05	43	253820	12.21	PPBV	97
77) BROMOFORM	15.45	173	341393	10.93	PPBV	99
79) 1,1,2,2-TETRACHLOROETHANE	15.86	83	233307	10.14	PPBV	99
80) ISOPROPYLBENZENE	16.49	105	760082	10.73	PPBV	99
81) 2-CHLOROTOLUENE	17.03	126	166947	11.46	PPBV #	99
82) n-PROPYLBENZENE	17.05	120	190984	11.60	PPBV	91
83) 4-ETHYLTOLUENE	17.22	105	653990	11.53	PPBV	98
84) 1,3,5-TRIMETHYLBENZENE	17.30	105	567419	11.68	PPBV	99
85) TERT-BUTYLBENZENE	17.75	134	139662	11.14	PPBV	97
86) 1,2,4-TRIMETHYLBENZENE	17.76	105	544027	11.55	PPBV	96
87) m-DICHLOROBENZENE	17.94	146	309998	11.04	PPBV	99
88) BENZYL CHLORIDE	17.92	91	325866	9.68	PPBV	98
89) p-DICHLOROBENZENE	18.01	146	289351	10.88	PPBV	99
90) SEC-BUTYLBENZENE	18.06	134	155481	10.67	PPBV	91
91) p-ISOPROPYLTOLUENE	18.24	134	150513	10.81	PPBV	98
92) o-DICHLOROBENZENE	18.40	146	262602	10.82	PPBV	98
93) n-BUTYLBENZENE	18.72	134	107696	10.85	PPBV	89
94) HEXACHLOROBUTADIENE	20.86	225	70669	9.30	PPBV	99

(#) = qualifier out of range (m) = manual integration

W30128.D MW1222.M

Mon Feb 14 10:30:55 2011

MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30128.D Vial: 3
Acq On : 11 Feb 2011 10:32 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS7890,VW1236,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 14 08:18:06 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,2,4-TRICHLOROBENZENE	20.34	180	46763	11.08	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W30128.D MW1222.M Mon Feb 14 10:30:55 2011 MSW

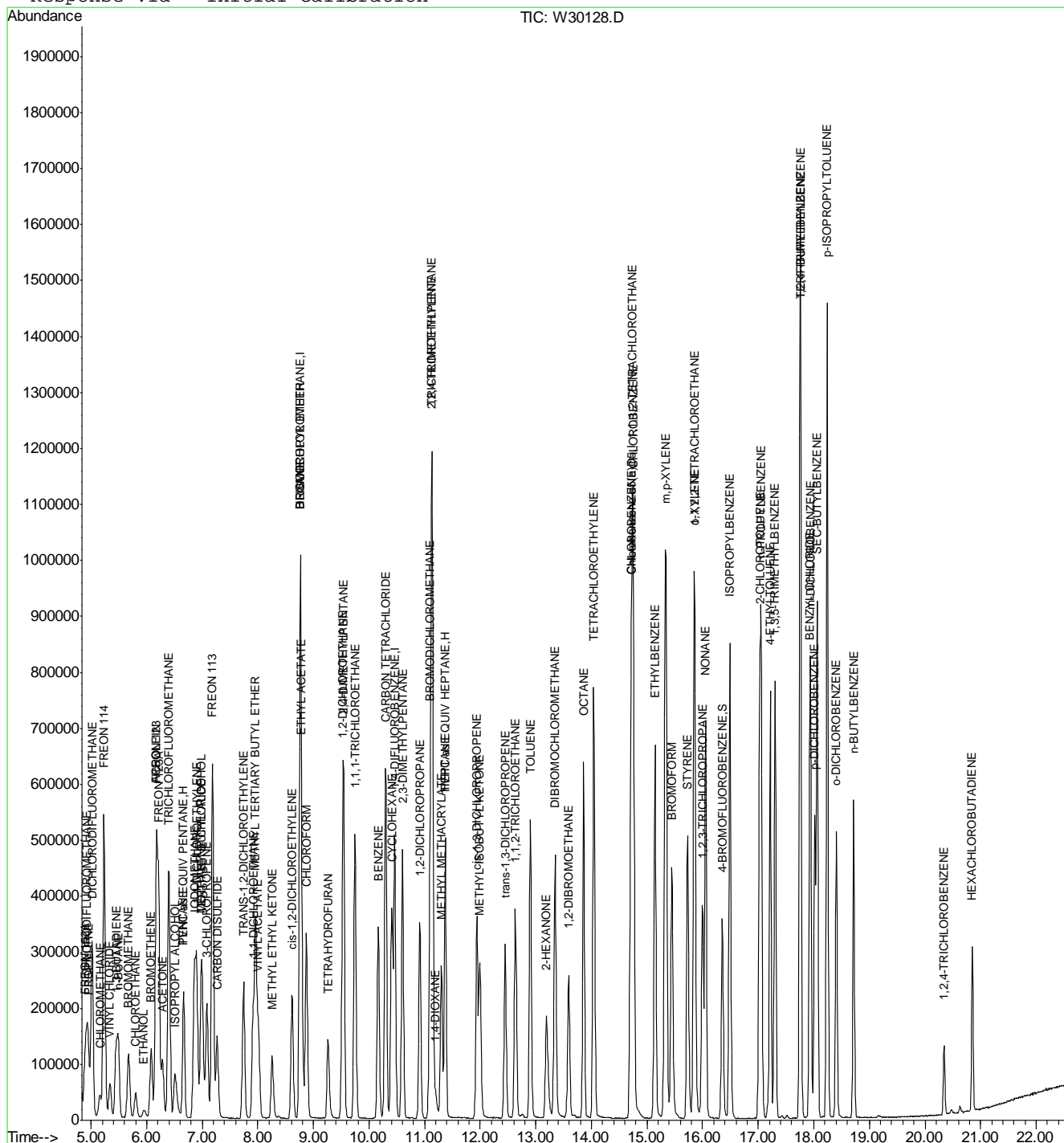
Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\W30128.D
Acq On    : 11 Feb 2011  10:32 am
Sample    : BSD
Misc      : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:03 2011
```

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Initial Calibration



W30128.D MW1222.M

Mon Feb 14 10:30:56 2011

MSW

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6.3.6

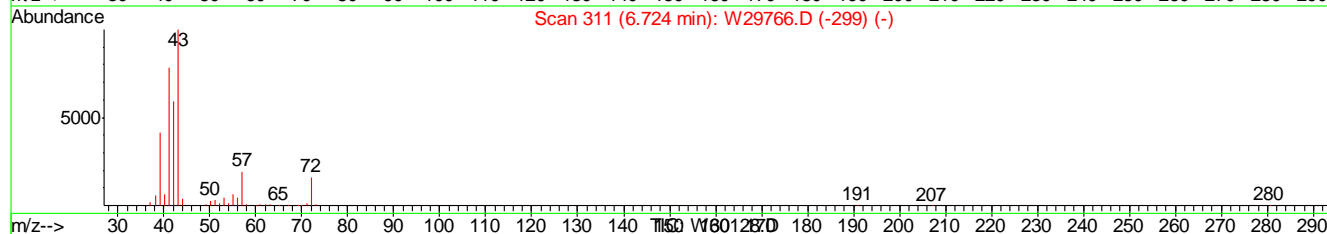
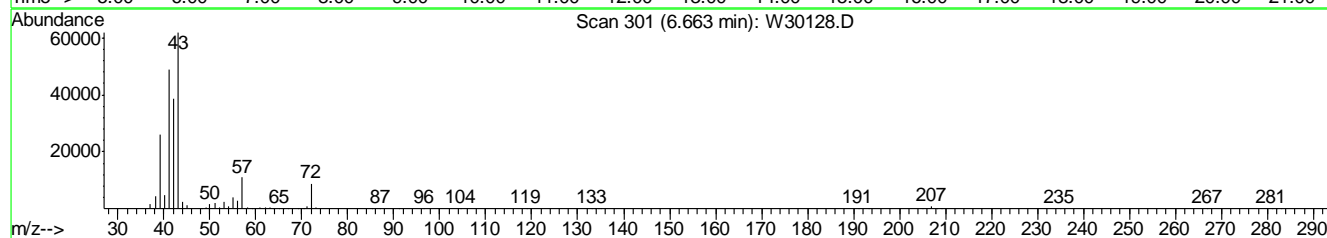
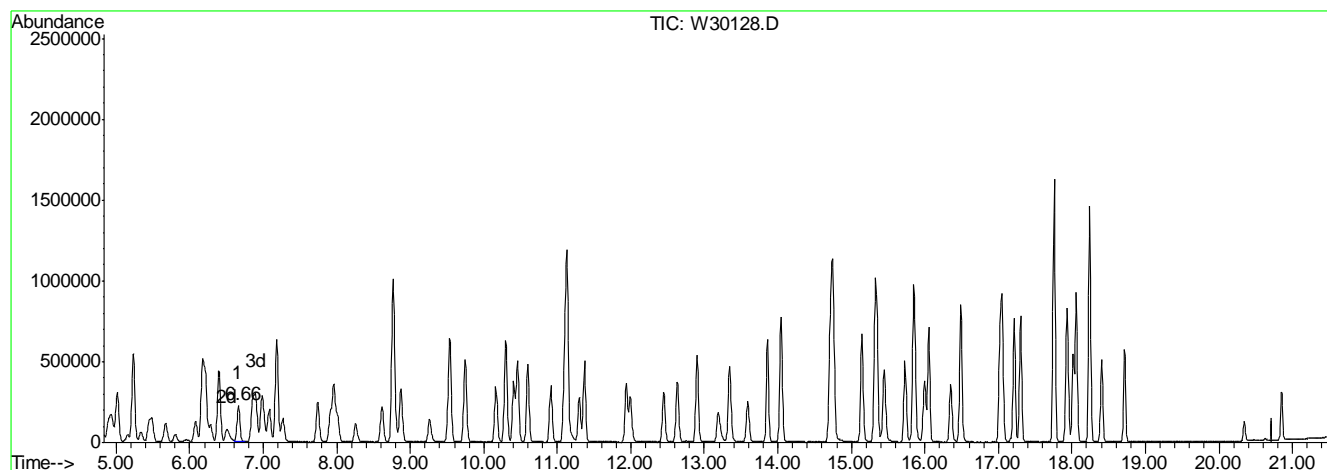
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W30128.D
 Acq On : 11 Feb 2011 10:32 am
 Sample : BSD
 Misc : MS7890,VW1236,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 14 10:03 2011

Vial: 3
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.66min 11.81PPBV m

response 628721

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.09#
0.00	0.00	0.00
0.00	0.00	0.00

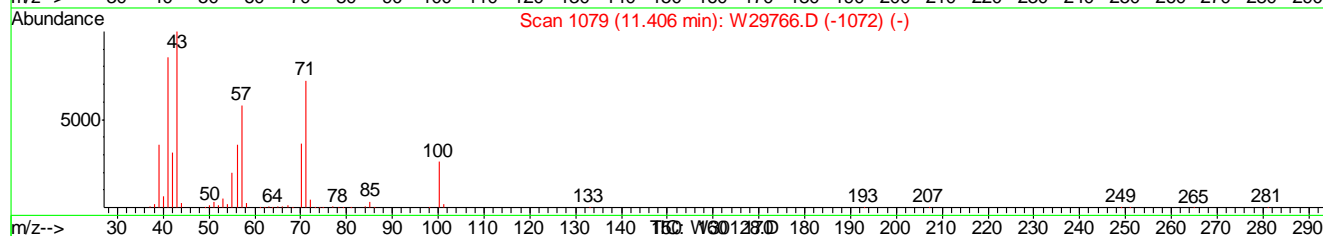
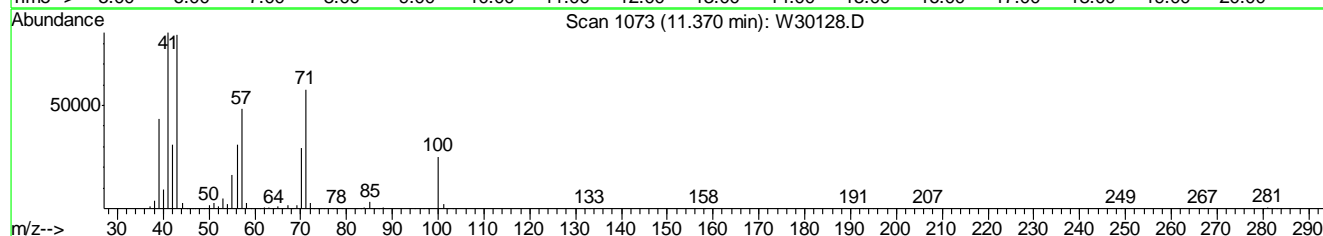
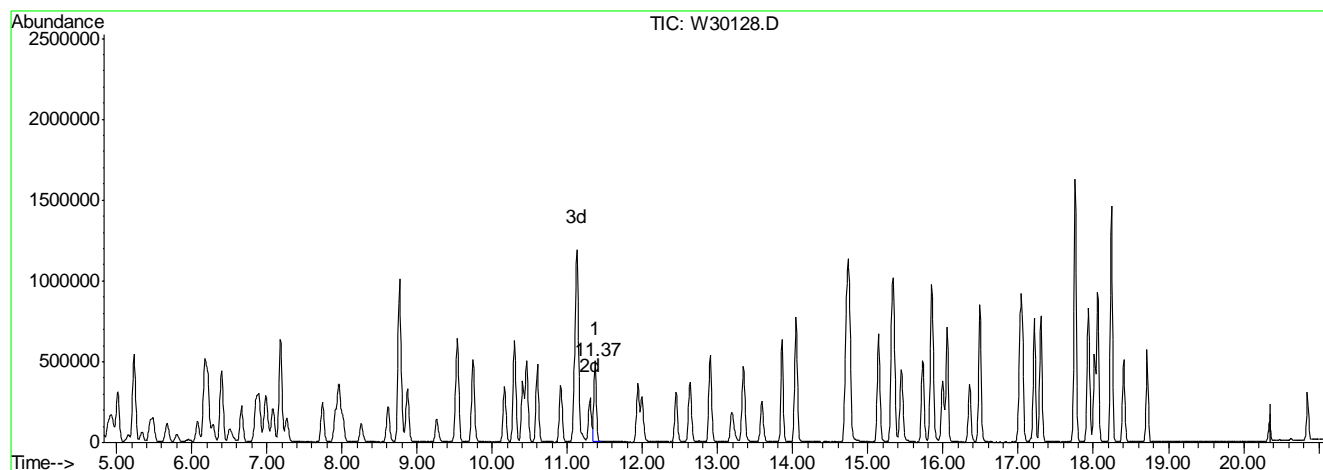
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W30128.D
 Acq On : 11 Feb 2011 10:32 am
 Sample : BSD
 Misc : MS7890,VW1236,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 14 10:03 2011

Vial: 3
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.37min 10.66PPBV m

response 1146911

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.05#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29759.D
Acq On : 14 Feb 2011 8:18 am
Operator : YOU MINH
Sample : BS
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 17:47:18 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.301	128	241630	10.00	PPBV	0.00
44) 1,4-DIFLUOROBENZENE	9.154	114	1218655	10.00	PPBV	-0.01
61) CHLOROBENZENE-D5	13.269	82	567859	10.00	PPBV	#-0.01
93) CHLOROBENZENE-D5(A)	13.269	82	587909	10.00	PPBV	#-0.01

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.763	95	288526	4.85	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	97.00%

Target Compounds

						Qvalue
3) DICHLORODIFLUOROMETHANE	3.832	85	1069068	8.10	PPBV	99
4) FREON 152A	3.741	65	256390	8.01	PPBV	92
5) CHLORODIFLUOROMETHANE	3.765	67	105913	8.58	PPBV	99
6) PROPYLENE	3.783	41	329526	8.91	PPBV	98
7) FREON 114	3.997	85	1194229	8.06	PPBV	97
8) CHLOROMETHANE	3.936	52	111529	8.71	PPBV	# 89
9) VINYL CHLORIDE	4.070	62	414876	8.39	PPBV	100
10) 1,3-BUTADIENE	4.155	54	320287	8.90	PPBV	88
11) n-BUTANE	4.186	43	627710	8.88	PPBV	# 94
12) BROMOMETHANE	4.320	94	384969	8.57	PPBV	100
13) CHLOROETHANE	4.423	64	230421	8.58	PPBV	97
14) FREON 123	4.728	83	1013303	8.18	PPBV	# 75
15) FREON 123A	4.759	117	576702	8.18	PPBV	86
16) TRICHLOROFLUOROMETHANE	4.911	101	1062143	8.21	PPBV	99
17) ISOPROPYL ALCOHOL	5.082	45	568659	8.63	PPBV	85
18) ACETONE	4.923	58	142955	8.49	PPBV	# 62
19) PENTANE	5.149	42	419455	8.54	PPBV	90
20) TVHC as EQUIV PENTANE	5.149	TIC	2189207m	9.48	PPBV	
21) IODOMETHANE	5.301	142	969409	9.01	PPBV	100
22) 1,1-DICHLOROETHYLENE	5.350	96	406666	9.14	PPBV	88
23) CARBON DISULFIDE	5.679	76	1018444	8.35	PPBV	93
24) ETHANOL	4.625	45	109793	7.88	PPBV	99
25) BROMOETHENE	4.643	106	383327	9.00	PPBV	99
26) METHYLENE CHLORIDE	5.435	84	324331	8.66	PPBV	88
27) 3-CHLOROPROPENE	5.533	76	173797	9.71	PPBV	# 14
28) FREON 113	5.649	151	657740	8.28	PPBV	94
29) TRANS-1,2-DICHLOROETHY...	6.210	96	361476	8.67	PPBV	93
30) TERTIARY BUTYL ALCOHOL	5.472	59	690688	8.38	PPBV	# 76
31) METHYL TERTIARY BUTYL ...	6.490	73	1137869	8.98	PPBV	95
32) TETRAHYDROFURAN	7.965	72	143974	8.26	PPBV	# 87
33) HEXANE	7.356	57	613446	8.34	PPBV	90
34) VINYL ACETATE	6.563	86	81087	10.92	PPBV	# 32
35) 1,1-DICHLOROETHANE	6.393	63	725645	8.67	PPBV	99
36) METHYL ETHYL KETONE	6.899	72	137969	8.91	PPBV	# 49
37) cis-1,2-DICHLOROETHYLENE	7.148	96	382355	9.67	PPBV	90
38) ETHYL ACETATE	7.459	61	85720	8.30	PPBV	# 61
39) CHLOROFORM	7.423	83	827161	9.24	PPBV	97
40) 2,4-DIMETHYLPENTANE	8.197	57	829739	8.22	PPBV	96
41) 1,1,1-TRICHLOROETHANE	8.362	97	910236	8.46	PPBV	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29759.D
Acq On : 14 Feb 2011 8:18 am
Operator : YOUMINH
Sample : BS
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 17:47:18 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.941	117	908122	8.30	PPBV	100
43) 1,2-DICHLOROETHANE	8.118	62	460019	10.12	PPBV	98
45) BENZENE	8.801	78	1231842	9.15	PPBV	98
46) CYCLOHEXANE	9.057	56	698235	8.34	PPBV #	77
47) 2,3-DIMETHYLPENTANE	9.307	71	321538	8.14	PPBV	91
48) TRICHLOROETHYLENE	9.813	95	470855	8.41	PPBV	93
49) 1,2-DICHLOROPROPANE	9.581	63	454175	9.70	PPBV	99
50) BROMODICHLOROMETHANE	9.764	83	836490	9.65	PPBV	96
51) 2,2,4-TRIMETHYLPENTANE	9.867	57	2171752	8.28	PPBV	99
52) 1,4-DIOXANE	9.971	88	196819	10.05	PPBV #	79
53) METHYL METHACRYLATE	10.069	69	392104	9.35	PPBV #	27
54) HEPTANE	10.130	43	734067	9.38	PPBV	86
55) TVHC as EQUIV HEPTANE	10.130	TIC	3552456m	10.36	PPBV	
56) METHYL ISOBUTYL KETONE	10.745	58	289236	8.78	PPBV #	85
57) cis-1,3-DICHLOROPROPENE	10.648	75	583855	9.91	PPBV	97
58) TOLUENE	11.587	92	842572	10.00	PPBV	99
59) trans-1,3-DICHLOROPROPENE	11.160	75	428955	10.67	PPBV	97
60) 1,1,2-TRICHLOROETHANE	11.312	83	403152	10.25	PPBV	97
62) 2-HEXANONE	11.922	58	305388	9.04	PPBV #	84
63) TETRACHLOROETHYLENE	12.660	164	473213	8.95	PPBV	99
64) DIBROMOCHLOROMETHANE	11.971	129	757251	9.86	PPBV	99
65) 1,2-DIBROMOETHANE	12.202	107	529515	10.00	PPBV	100
66) OCTANE	12.568	43	1007379	10.21	PPBV #	85
67) 1,1,1,2-TETRACHLOROETHANE	13.300	131	624710	9.13	PPBV #	1
68) CHLOROBENZENE	13.312	112	900553	9.53	PPBV	95
69) ETHYLBENZENE	13.690	91	1689900	9.81	PPBV	98
70) m,p-XYLENE	13.867	106	1287599	20.05	PPBV	95
71) o-XYLENE	14.312	106	625824	9.83	PPBV	95
72) STYRENE	14.214	104	749301	10.74	PPBV	97
73) NONANE	14.568	43	906950	10.83	PPBV	90
74) BROMOFORM	13.903	173	600456	9.71	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.306	83	806432	9.63	PPBV	99
77) ISOPROPYLBENZENE	14.909	105	1836503	9.81	PPBV	98
78) 2-CHLOROTOLUENE	15.379	126	374486	9.88	PPBV #	1
79) n-PROPYLBENZENE	15.427	120	425734	9.98	PPBV #	31
80) 4-ETHYLTOLUENE	15.580	105	1405530	10.64	PPBV	97
81) 1,3,5-TRIMETHYLBENZENE	15.659	105	1263967	10.09	PPBV	98
82) TERT-BUTYLBENZENE	16.061	134	310117	10.37	PPBV	87
83) 1,2,4-TRIMETHYLBENZENE	16.067	105	1130607	10.71	PPBV	99
84) m-DICHLOROBENZENE	16.202	146	469769	10.00	PPBV	99
85) BENZYL CHLORIDE	16.189	91	572655	10.43	PPBV	97
86) p-DICHLOROBENZENE	16.269	146	459833	9.74	PPBV	99
87) SEC-BUTYLBENZENE	16.336	134	352079	9.88	PPBV	89
88) p-ISOPROPYLTOLUENE	16.500	134	308325	10.52	PPBV	91
89) o-DICHLOROBENZENE	16.610	146	458616	10.16	PPBV	99
90) n-BUTYLBENZENE	16.915	134	202107	9.17	PPBV	84
91) HEXACHLOROBUTADIENE	18.732	225	219155	10.00	PPBV	99
92) 1,2,4-TRICHLOROBENZENE	18.293	180	100389	7.99	PPBV	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29759.D
Acq On : 14 Feb 2011 8:18 am
Operator : YOUMINH
Sample : BS
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 17:47:18 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

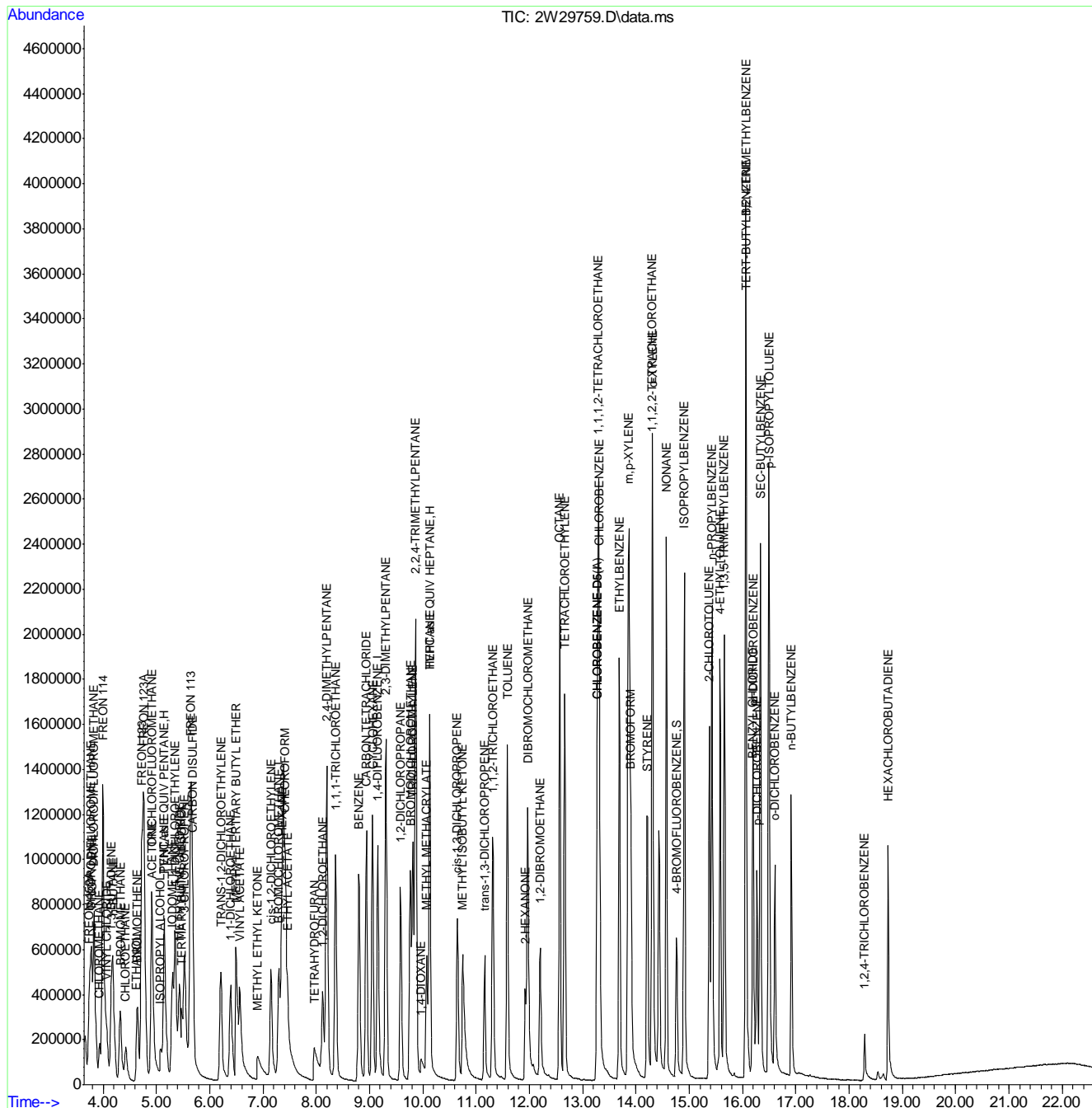
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)= qualifier out of range (m)= manual integration (+)= signals summed						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29759.D
Acq On : 14 Feb 2011 8:18 am
Operator : YOUMINH
Sample : BS
Misc : MS8244,V2W1256,400,,,,,1
ALS Vial : 3 Sample Multiplier: 1

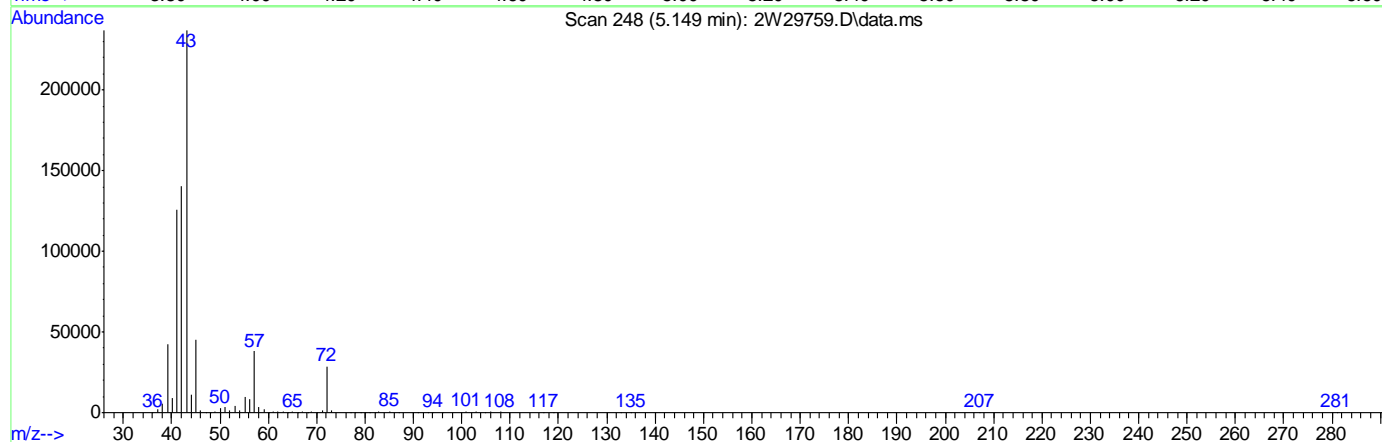
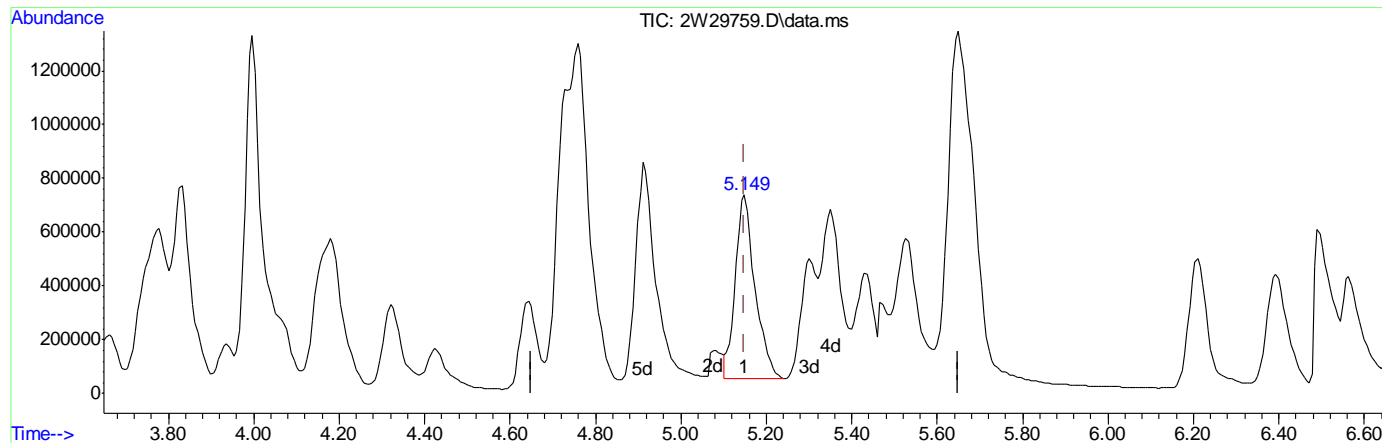
Quant Time: Mar 01 17:47:18 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w\Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29759.D
Acq On : 14 Feb 2011 8:18 am
Operator : YOUMINH
Sample : BS
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 14:38:36 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (-0.000) 9.48PPBV m

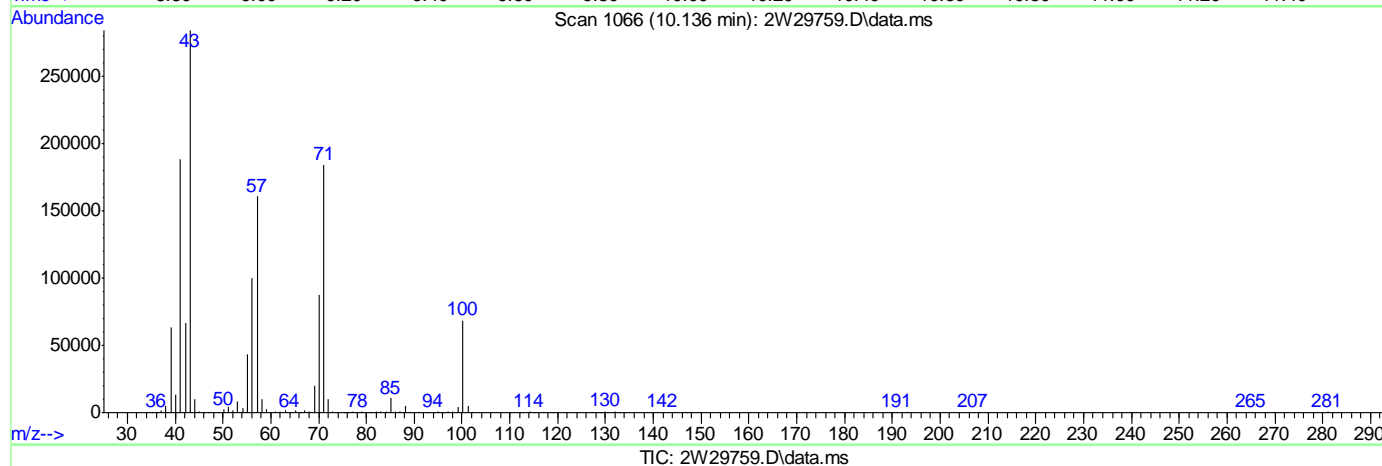
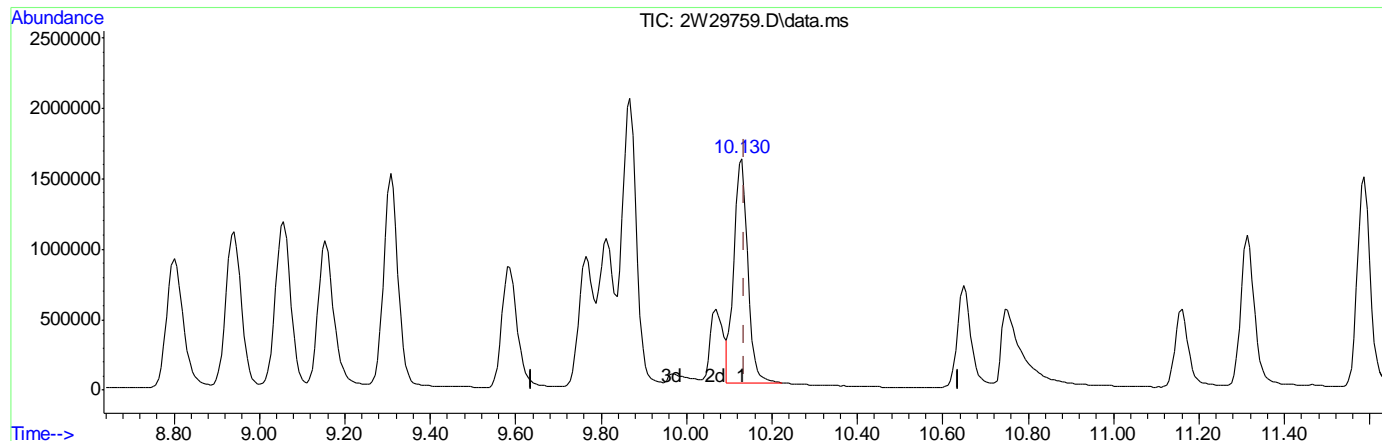
response 2189207

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29759.D
Acq On : 14 Feb 2011 8:18 am
Operator : YOUMINH
Sample : BS
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 14:38:36 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.130min (-0.006) 10.36PPBV m

response 3552456

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29760.D
Acq On : 14 Feb 2011 8:56 am
Operator : YOU MINH
Sample : BSD
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 17:49:03 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.307	128	215667	10.00	PPBV	0.00
44) 1,4-DIFLUOROBENZENE	9.160	114	1127500	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.275	82	532734	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.275	82	554088	10.00	PPBV	# 0.00

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.763	95	273760	4.91	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	98.20%

Target Compounds

						Qvalue
3) DICHLORODIFLUOROMETHANE	3.832	85	1004826	8.53	PPBV	99
4) FREON 152A	3.740	65	239015	8.37	PPBV	92
5) CHLORODIFLUOROMETHANE	3.765	67	98800	8.97	PPBV	99
6) PROPYLENE	3.783	41	294440	8.92	PPBV	98
7) FREON 114	3.990	85	1138517	8.60	PPBV	97
8) CHLOROMETHANE	3.936	52	99796	8.73	PPBV	# 89
9) VINYL CHLORIDE	4.070	62	380136	8.61	PPBV	100
10) 1,3-BUTADIENE	4.155	54	294664	9.18	PPBV	89
11) n-BUTANE	4.185	43	580407	9.20	PPBV	# 94
12) BROMOMETHANE	4.320	94	364941	9.10	PPBV	99
13) CHLOROETHANE	4.423	64	217422	9.07	PPBV	98
14) FREON 123	4.728	83	1002904	9.07	PPBV	# 75
15) FREON 123A	4.765	117	571093	9.08	PPBV	88
16) TRICHLOROFLUOROMETHANE	4.911	101	1030442	8.92	PPBV	99
17) ISOPROPYL ALCOHOL	5.100	45	560522	9.53	PPBV	93
18) ACETONE	4.948	58	117993	7.85	PPBV	# 61
19) PENTANE	5.149	42	403267	9.20	PPBV	92
20) TVHC as EQUIV PENTANE	5.149	TIC	2025481m	9.83	PPBV	
21) IODOMETHANE	5.301	142	936387	9.75	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.350	96	385632	9.71	PPBV	87
23) CARBON DISULFIDE	5.685	76	938142	8.62	PPBV	92
24) ETHANOL	4.661	45	95349	7.67	PPBV	98
25) BROMOETHENE	4.643	106	365370	9.61	PPBV	99
26) METHYLENE CHLORIDE	5.435	84	302687	9.06	PPBV	90
27) 3-CHLOROPROPENE	5.533	76	158354	9.91	PPBV	# 8
28) FREON 113	5.649	151	654428	9.23	PPBV	96
29) TRANS-1,2-DICHLOROETHY...	6.216	96	341240	9.17	PPBV	95
30) TERTIARY BUTYL ALCOHOL	5.496	59	708090	9.62	PPBV	# 78
31) METHYL TERTIARY BUTYL ...	6.502	73	1122375	9.93	PPBV	96
32) TETRAHYDROFURAN	7.977	72	132279	8.50	PPBV	93
33) HEXANE	7.362	57	579205	8.82	PPBV	91
34) VINYL ACETATE	6.581	86	72055	10.87	PPBV	# 48
35) 1,1-DICHLOROETHANE	6.392	63	688850	9.22	PPBV	99
36) METHYL ETHYL KETONE	6.917	72	117318	8.49	PPBV	# 51
37) cis-1,2-DICHLOROETHYLENE	7.154	96	353253	10.01	PPBV	91
38) ETHYL ACETATE	7.471	61	77214	8.37	PPBV	# 82
39) CHLOROFORM	7.429	83	789918	9.89	PPBV	97
40) 2,4-DIMETHYLPENTANE	8.197	57	791369	8.78	PPBV	96
41) 1,1,1-TRICHLOROETHANE	8.368	97	881551	9.18	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
 Data File : 2W29760.D
 Acq On : 14 Feb 2011 8:56 am
 Operator : YOUMINH
 Sample : BSD
 Misc : MS8244,V2W1256,400,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 17:49:03 2011
 Quant Method : C:\msdchem\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Tue Jan 25 11:19:02 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.941	117	877386	8.99	PPBV	100
43) 1,2-DICHLOROETHANE	8.124	62	421757	10.40	PPBV	98
45) BENZENE	8.807	78	1176901	9.45	PPBV	98
46) CYCLOHEXANE	9.056	56	662613	8.56	PPBV #	78
47) 2,3-DIMETHYLPENTANE	9.313	71	310183	8.48	PPBV	91
48) TRICHLOROETHYLENE	9.819	95	444873	8.58	PPBV	94
49) 1,2-DICHLOROPROPANE	9.587	63	427058	9.86	PPBV	99
50) BROMODICHLOROMETHANE	9.770	83	846492	10.55	PPBV	99
51) 2,2,4-TRIMETHYLPENTANE	9.873	57	2085301	8.59	PPBV	99
52) 1,4-DIOXANE	9.995	88	192506	10.63	PPBV #	87
53) METHYL METHACRYLATE	10.075	69	364135	9.38	PPBV #	24
54) HEPTANE	10.129	43	700165	9.67	PPBV	87
55) TVHC as EQUIV HEPTANE	10.129	TIC	3593540m	11.32	PPBV	
56) METHYL ISOBUTYL KETONE	10.763	58	275532	9.05	PPBV #	87
57) cis-1,3-DICHLOROPROPENE	10.654	75	546655	10.02	PPBV	96
58) TOLUENE	11.586	92	820178	10.52	PPBV	99
59) trans-1,3-DICHLOROPROPENE	11.166	75	401461	10.79	PPBV	95
60) 1,1,2-TRICHLOROETHANE	11.318	83	387781	10.65	PPBV	97
62) 2-HEXANONE	11.934	58	276129	8.71	PPBV	86
63) TETRACHLOROETHYLENE	12.666	164	480044	9.67	PPBV	99
64) DIBROMOCHLOROMETHANE	11.977	129	749707	10.41	PPBV	100
65) 1,2-DIBROMOETHANE	12.208	107	510518	10.28	PPBV	100
66) OCTANE	12.574	43	950032	10.26	PPBV	87
67) 1,1,1,2-TETRACHLOROETHANE	13.300	131	615706	9.59	PPBV #	1
68) CHLOROBENZENE	13.318	112	887886	10.02	PPBV	96
69) ETHYLBENZENE	13.690	91	1658937	10.27	PPBV	99
70) m,p-XYLENE	13.873	106	1274554	21.16	PPBV	98
71) o-XYLENE	14.318	106	630084	10.55	PPBV	97
72) STYRENE	14.214	104	722603	11.04	PPBV	98
73) NONANE	14.574	43	880882	11.22	PPBV	91
74) BROMOFORM	13.909	173	599463	10.33	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.312	83	790491	10.06	PPBV	99
77) ISOPROPYLBENZENE	14.909	105	1853690	10.55	PPBV	98
78) 2-CHLOROTOLUENE	15.378	126	376713	10.59	PPBV #	1
79) n-PROPYLBENZENE	15.433	120	425232	10.62	PPBV #	34
80) 4-ETHYLTOLUENE	15.580	105	1399462	11.29	PPBV	98
81) 1,3,5-TRIMETHYLBENZENE	15.665	105	1286182	10.94	PPBV	98
82) TERT-BUTYLBENZENE	16.061	134	316047	11.26	PPBV	88
83) 1,2,4-TRIMETHYLBENZENE	16.067	105	1128787	11.39	PPBV	98
84) m-DICHLOROBENZENE	16.208	146	470915	10.69	PPBV	99
85) BENZYL CHLORIDE	16.195	91	559358	10.86	PPBV	97
86) p-DICHLOROBENZENE	16.275	146	446679	10.08	PPBV	100
87) SEC-BUTYLBENZENE	16.336	134	353841	10.59	PPBV	90
88) p-ISOPROPYLTOLUENE	16.500	134	297833	10.83	PPBV	91
89) o-DICHLOROBENZENE	16.610	146	443441	10.47	PPBV	99
90) n-BUTYLBENZENE	16.921	134	200757	9.71	PPBV	86
91) HEXACHLOROBUTADIENE	18.731	225	221005	10.75	PPBV	99
92) 1,2,4-TRICHLOROBENZENE	18.299	180	100935	8.56	PPBV	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29760.D
Acq On : 14 Feb 2011 8:56 am
Operator : YOUMINH
Sample : BSD
Misc : MS8244,V2W1256,400,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 17:49:03 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

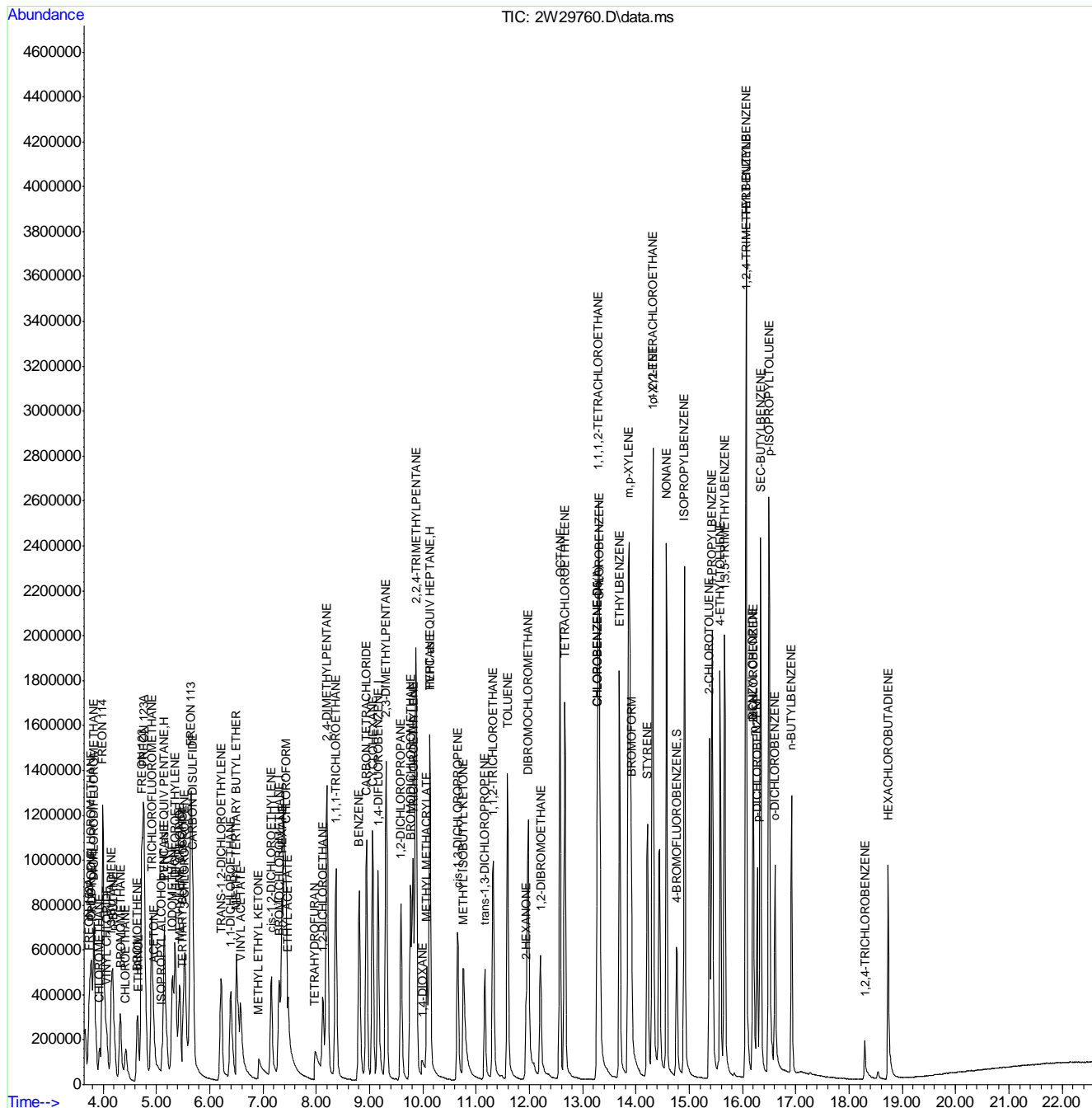
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)= qualifier out of range (m)= manual integration (+)= signals summed						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29760.D
Acq On : 14 Feb 2011 8:56 am
Operator : YOU MINH
Sample : BSD
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

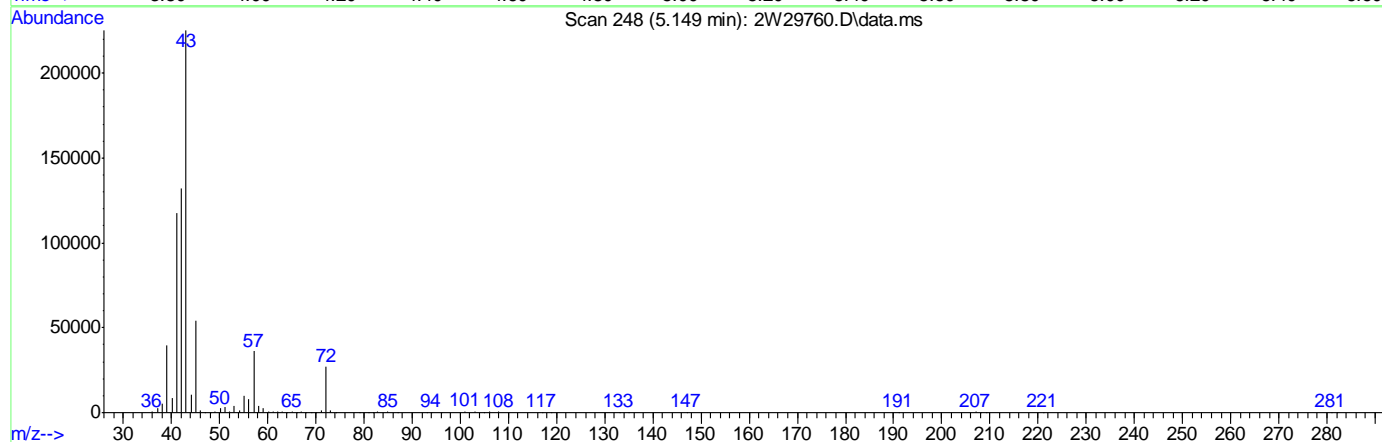
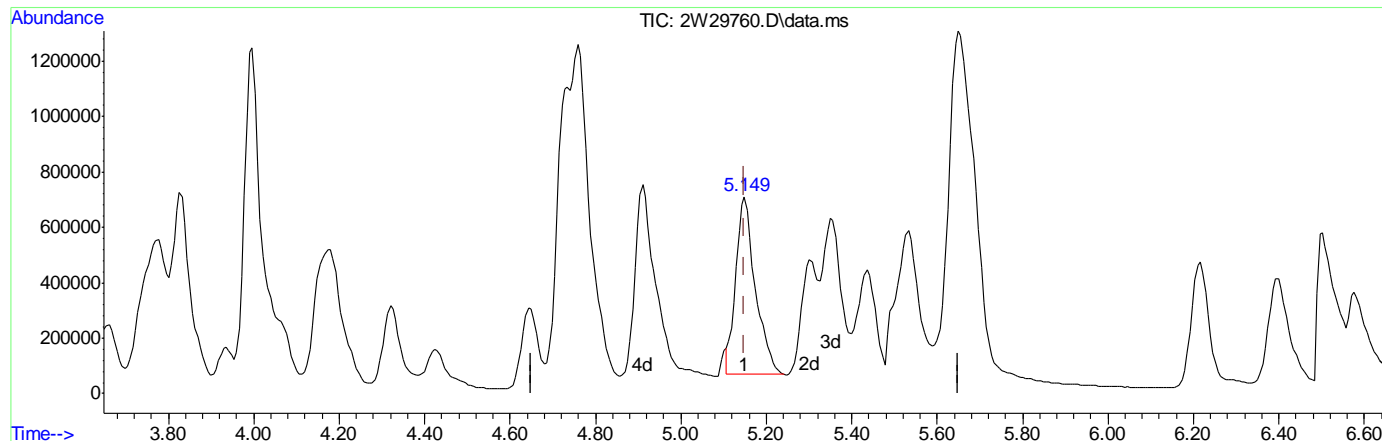
Quant Time: Mar 01 17:49:03 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29760.D
Acq On : 14 Feb 2011 8:56 am
Operator : YOU MINH
Sample : BSD
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 14:38:45 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (-0.000) 9.83PPBV m

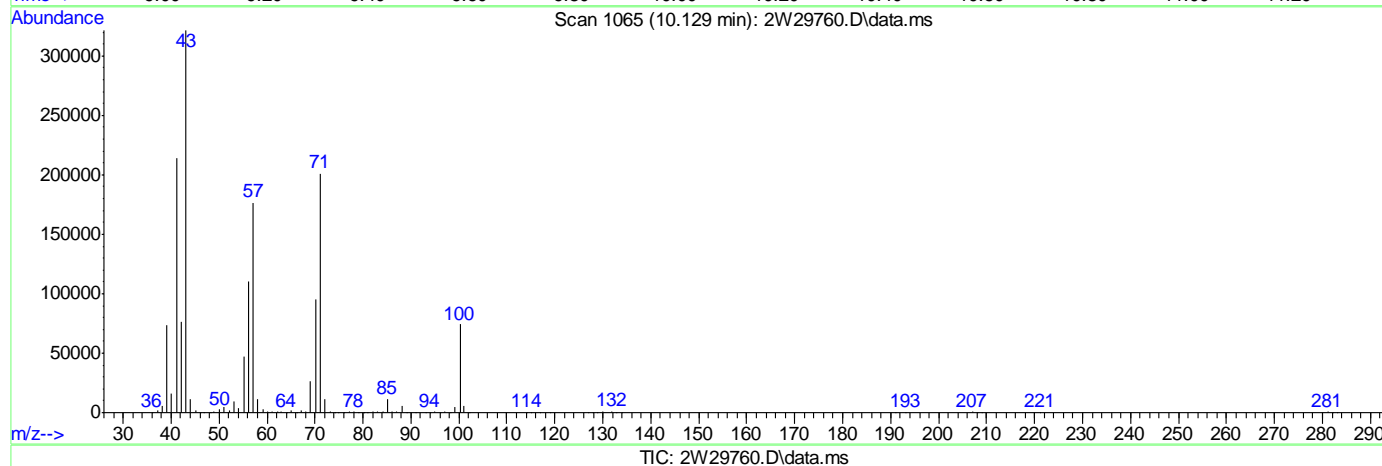
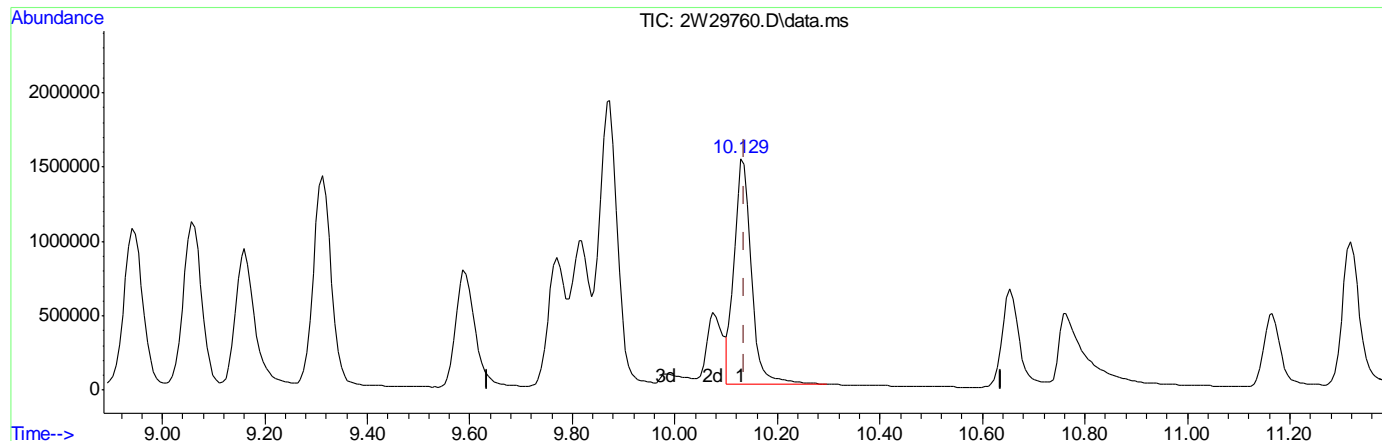
response 2025481

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29760.D
Acq On : 14 Feb 2011 8:56 am
Operator : YOUMINH
Sample : BSD
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 14:38:45 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.129min (-0.007) 11.32PPBV m

response 3593540

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20986.D Vial: 4
 Acq On : 24 Feb 2011 6:57 pm Operator: yunxiac
 Sample : ja68565-4dup Inst : MS3W
 Misc : MS8536,V3W828,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:10:50 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	151964	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	737257	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	344917	10.00	PPBV	-0.01
95) CHLOROBENZENE-D5 (a)	13.37	82	344917	10.00	PPBV	-0.01

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 205877 5.61 PPBV -0.01
 Spiked Amount 5.000 Range 65 - 128 Recovery = 112.20%

Target Compounds

						Qvalue
5) DICHLORODIFLUOROMETHANE	4.38	85	19584	0.44	PPBV	99
6) PROPYLENE	4.34	41	9242	0.55	PPBV #	79
11) n-BUTANE	4.73	43	12626	0.43	PPBV #	92
16) TRICHLOROFLUOROMETHANE	5.45	101	4621	0.11	PPBV	92
17) ISOPROPYL ALCOHOL	5.58	45	87639	3.53	PPBV	89
18) ACETONE	5.35	58	292920	48.80	PPBV #	89
23) CARBON DISULFIDE	6.17	76	61763	1.16	PPBV	95
24) ETHANOL	5.11	45	131815	21.30	PPBV	99
28) FREON 113	6.11	151	30365	1.00	PPBV	95
30) TERTIARY BUTYL ALCOHOL	6.03	59	5564	0.20	PPBV #	69
33) HEXANE	7.48	57	3481	0.13	PPBV #	74
36) METHYL ETHYL KETONE	7.09	72	4503	0.80	PPBV #	73
39) ETHYL ACETATE	7.59	61	10635	2.70	PPBV #	89
46) BENZENE	8.88	78	4518	0.10	PPBV	94
49) TRICHLOROETHYLENE	9.81	95	210205	9.72	PPBV	96
54) HEPTANE	9.99	43	3409	0.11	PPBV	83
59) TOLUENE	11.56	92	14372	0.51	PPBV	99
64) TETRACHLOROETHYLENE	12.69	164	3023	0.12	PPBV	95
71) m,p-XYLENE	13.96	106	6105	0.30	PPBV	97
72) o-XYLENE	14.47	106	3880	0.20	PPBV	97
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	5519	0.19	PPBV #	29
88) p-DICHLOROBENZENE	16.75	146	5614	0.31	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20986.D M3W821.M Fri Feb 25 10:20:20 2011 MS3W

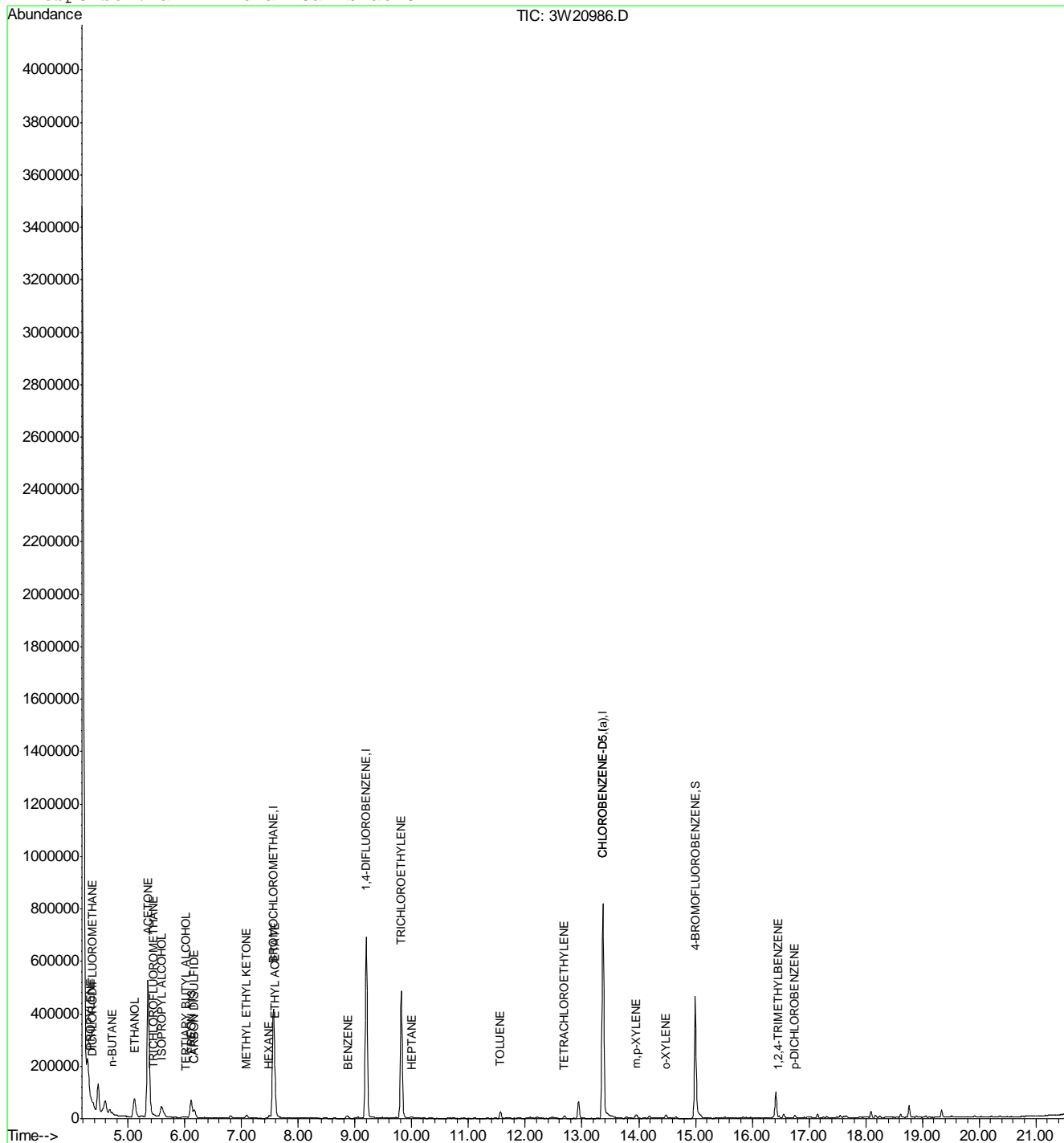
Quantitation Report (QT Reviewed)

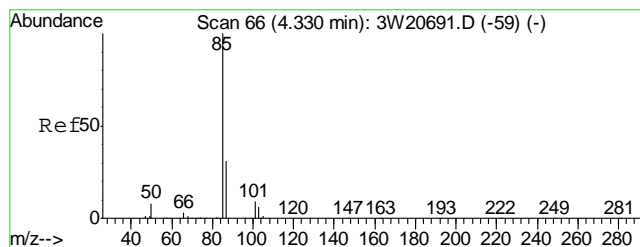
Data File : C:\MSDCHEM\1\DATA\3W20986.D
Acq On : 24 Feb 2011 6:57 pm
Sample : ja68565-4dup
Misc : MS8536,V3W828,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:08 2011

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

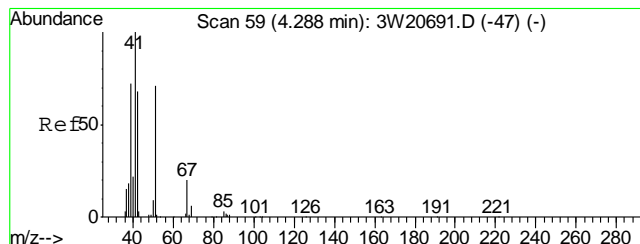
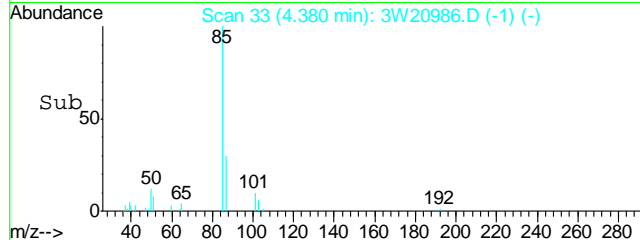
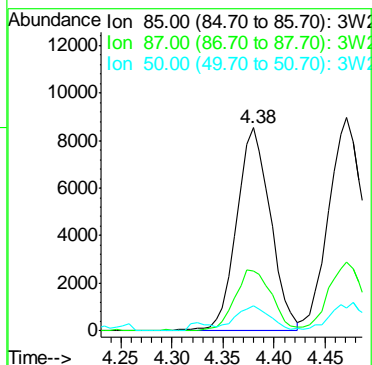
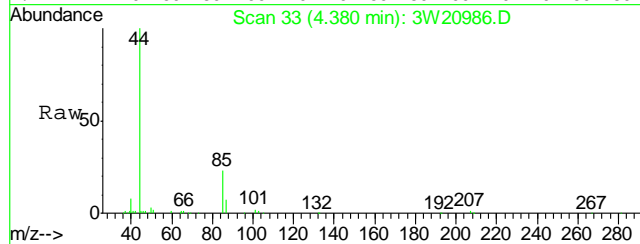
Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration





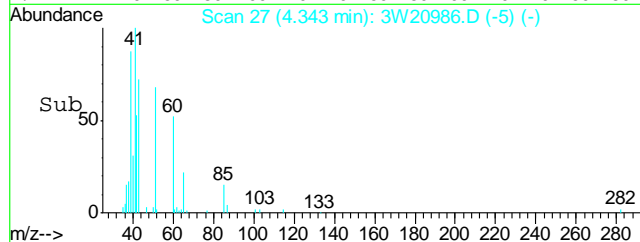
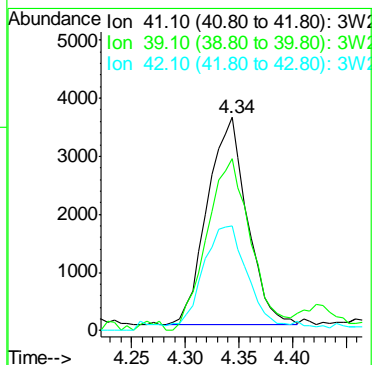
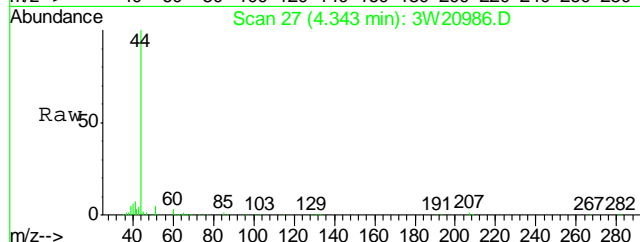
#5
DICHLORODIFLUOROMETHANE
Concen: 0.44 PPBV
RT: 4.38 min Scan# 33
Delta R.T. 0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

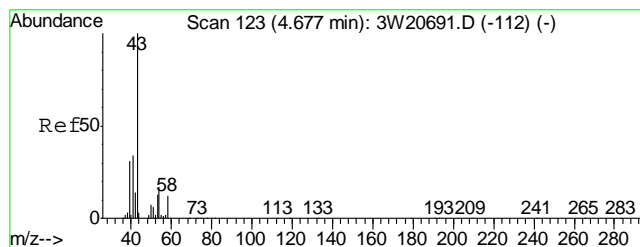
Tgt Ion:	85	Resp:	19584
Ion Ratio	Lower	Upper	
85	100		
87	32.6	12.9	52.9
50	11.7	0.0	30.6



#6
PROPYLENE
Concen: 0.55 PPBV
RT: 4.34 min Scan# 27
Delta R.T. 0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

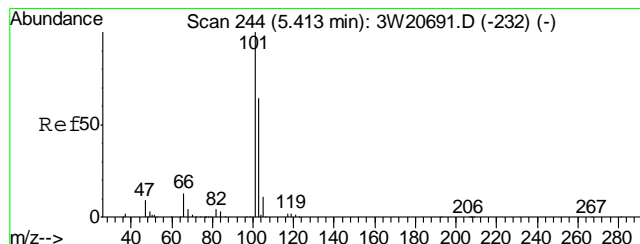
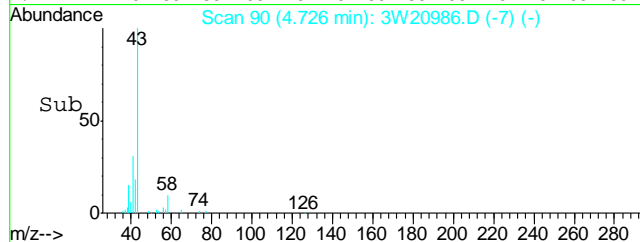
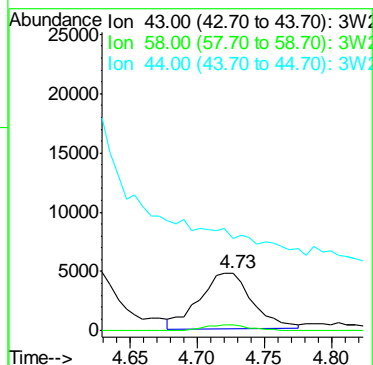
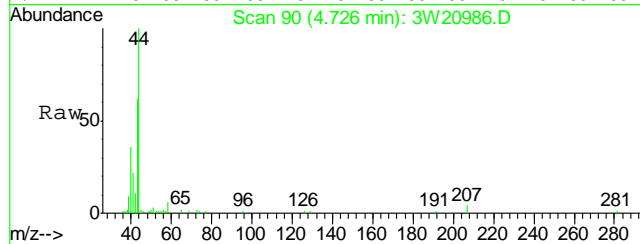
Tgt Ion:	41	Resp:	9242
Ion Ratio	Lower	Upper	
41	100		
39	91.3	50.7	90.7#
42	52.7	46.0	86.0





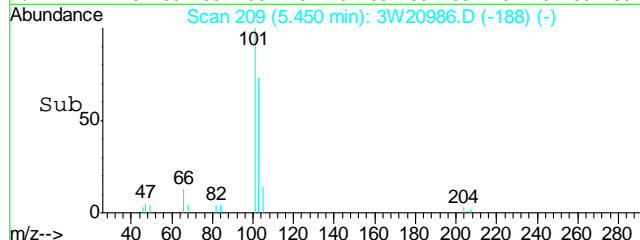
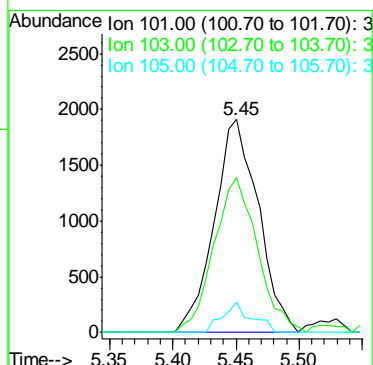
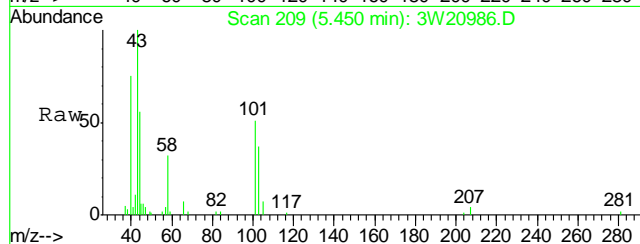
#11
n-BUTANE
Concen: 0.43 PPBV
RT: 4.73 min Scan# 90
Delta R.T. 0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

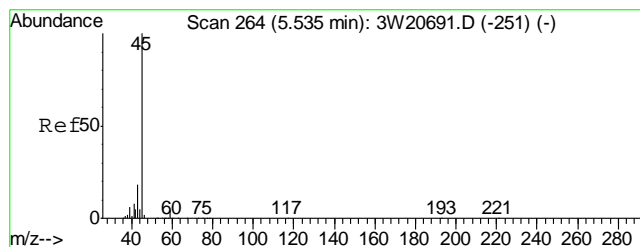
Tgt Ion: 43 Resp: 12626
Ion Ratio Lower Upper
43 100
58 9.5 0.0 32.1
44 0.0 0.0 23.9



#16
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 5.45 min Scan# 209
Delta R.T. -0.00 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

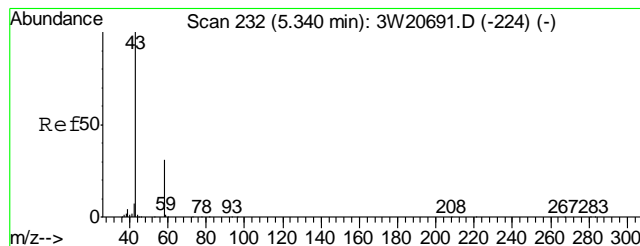
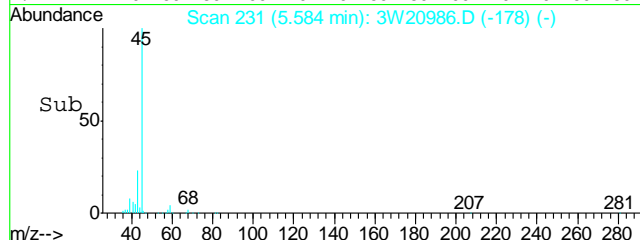
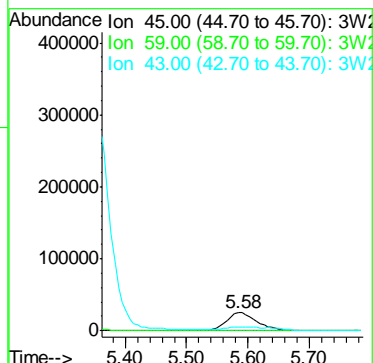
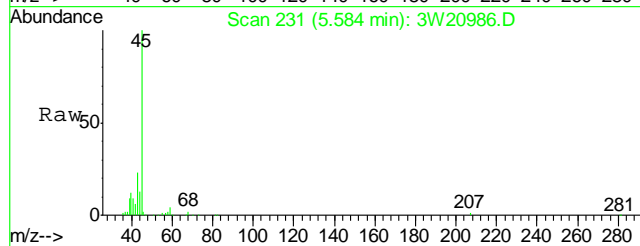
Tgt Ion: 101 Resp: 4621
Ion Ratio Lower Upper
101 100
103 72.2 45.5 85.5
105 9.4 0.0 30.6





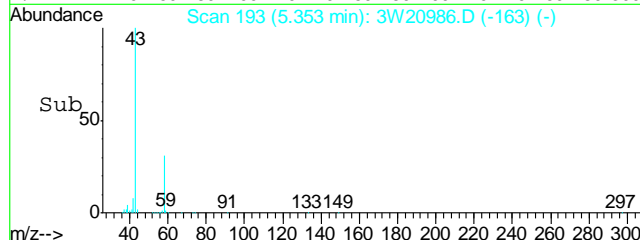
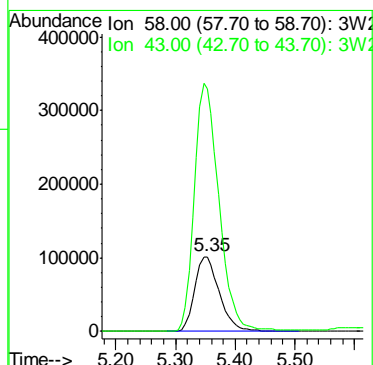
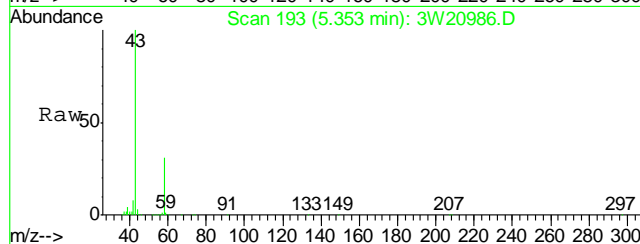
#17
ISOPROPYL ALCOHOL
Concen: 3.53 PPBV
RT: 5.58 min Scan# 231
Delta R.T. 0.02 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

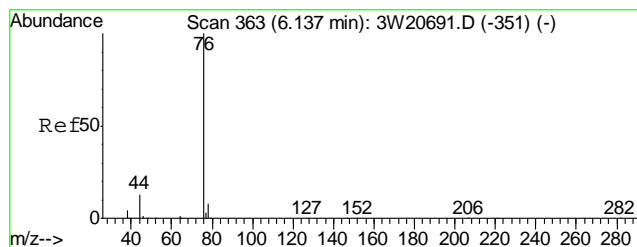
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.8	0.0	23.7
43	23.0	0.0	37.4



#18
ACETONE
Concen: 48.80 PPBV
RT: 5.35 min Scan# 193
Delta R.T. -0.02 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

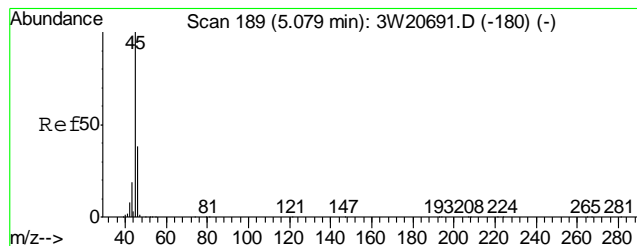
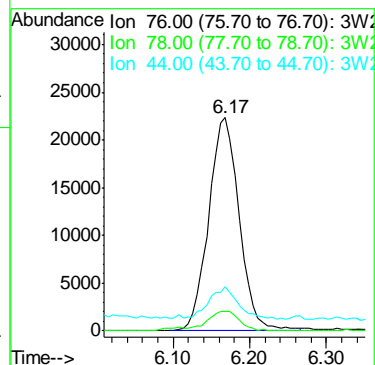
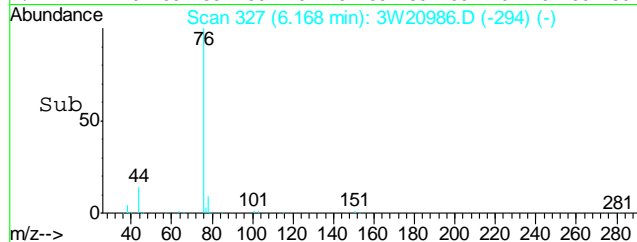
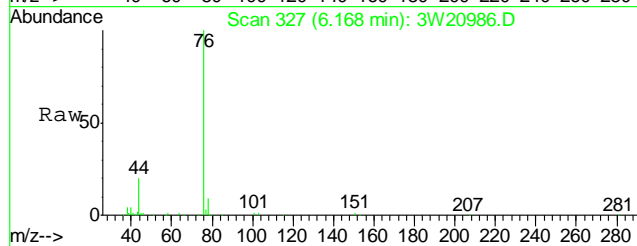
Tgt Ion	Ratio	Lower	Upper
58	100		
43	330.3	289.1	329.1#





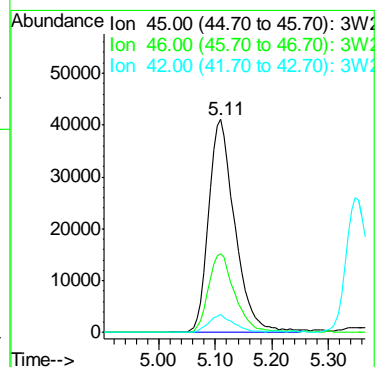
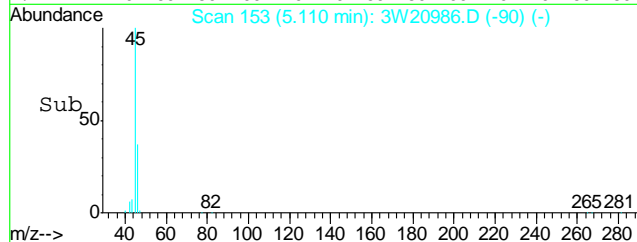
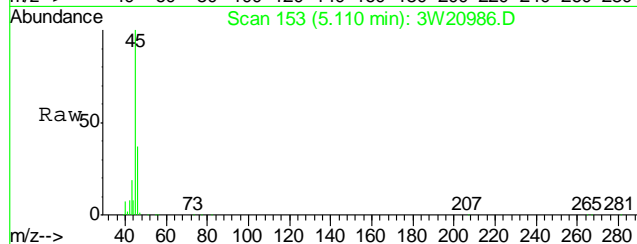
#23
CARBON DISULFIDE
Concen: 1.16 PPBV
RT: 6.17 min Scan# 327
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

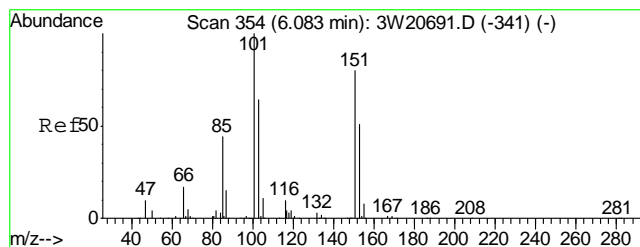
Tgt Ion: 76	Resp: 61763
Ion Ratio	Lower Upper
76 100	
78 9.8	0.0 30.5
44 14.5	0.0 31.7



#24
ETHANOL
Concen: 21.30 PPBV
RT: 5.11 min Scan# 153
Delta R.T. 0.00 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

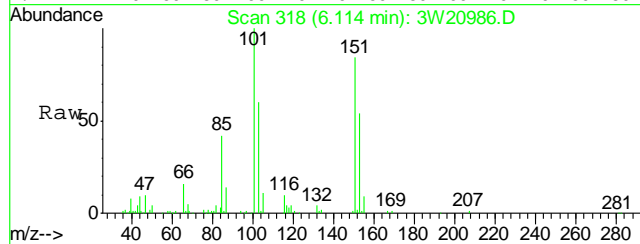
Tgt Ion: 45	Resp: 131815
Ion Ratio	Lower Upper
45 100	
46 37.3	18.2 58.2
42 7.9	0.0 27.7



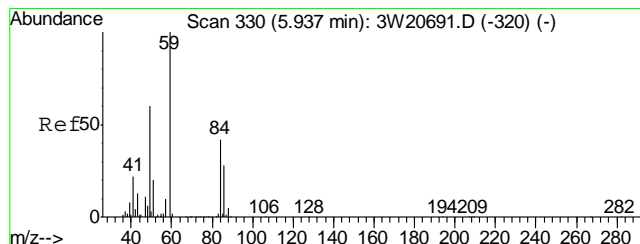
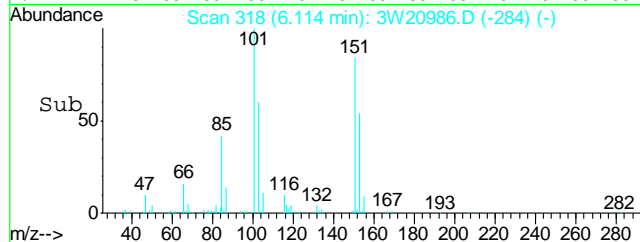
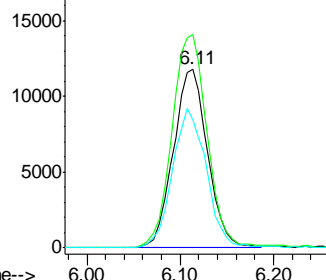


#28
FREON 113
Concen: 1.00 PPBV
RT: 6.11 min Scan# 318
Delta R.T. -0.00 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

Tgt Ion	Ratio	Lower	Upper
151	100		
101	122.3	95.5	135.5
103	77.3	54.9	94.9

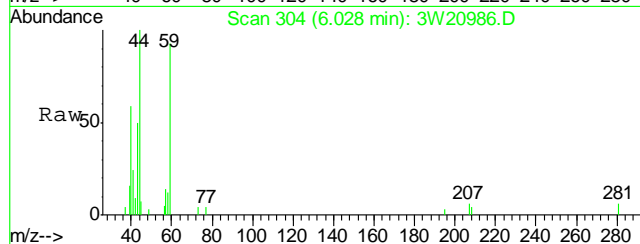


Abundance Ion 151.00 (150.70 to 151.70): 3
Ion 100.85 (100.55 to 101.55): 3
Ion 102.90 (102.60 to 103.60): 3

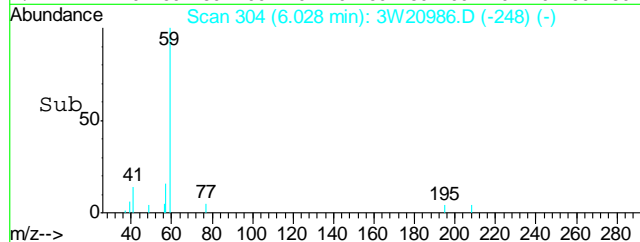
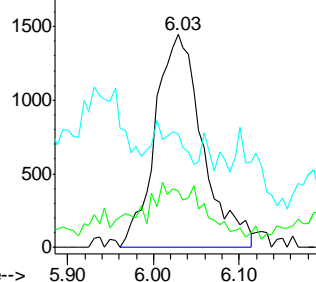


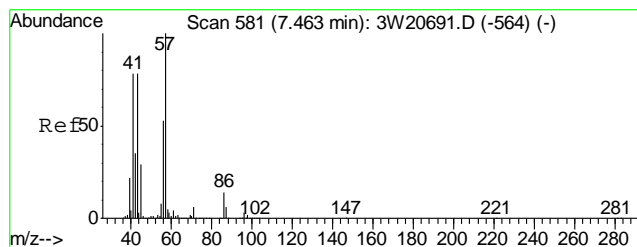
#30
TERTIARY BUTYL ALCOHOL
Concen: 0.20 PPBV
RT: 6.03 min Scan# 304
Delta R.T. 0.04 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

Tgt Ion	Ratio	Lower	Upper
59	100		
41	0.0	0.0	38.0
43	5.7	0.0	33.0



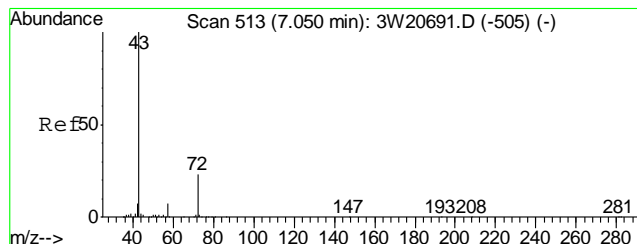
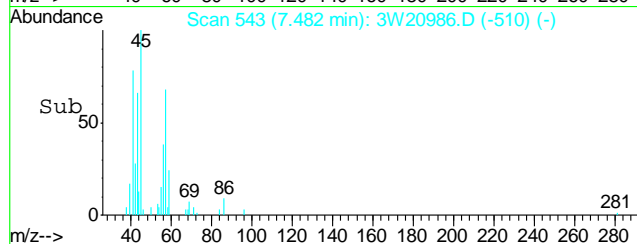
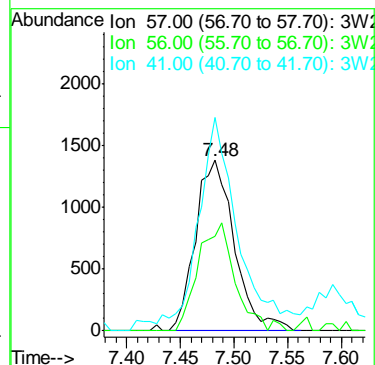
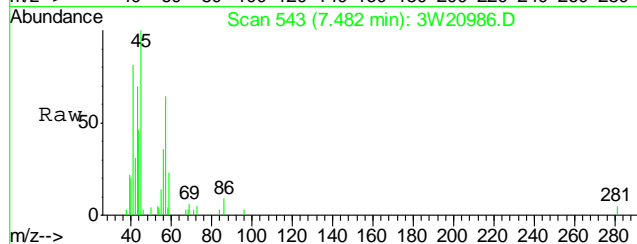
Abundance Ion 59.00 (58.70 to 59.70): 3W2
Ion 41.00 (40.70 to 41.70): 3W2
Ion 43.00 (42.70 to 43.70): 3W2





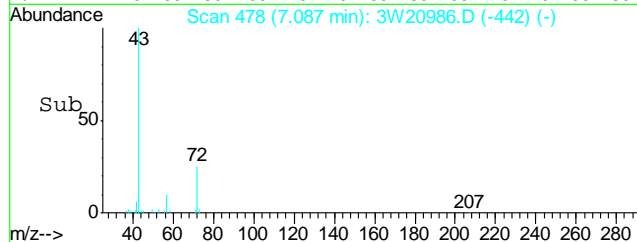
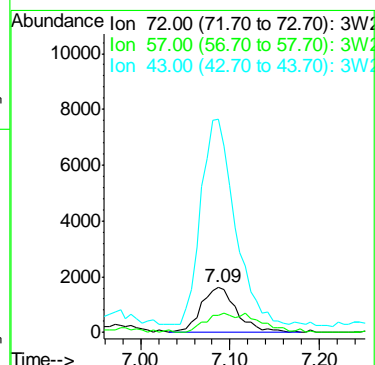
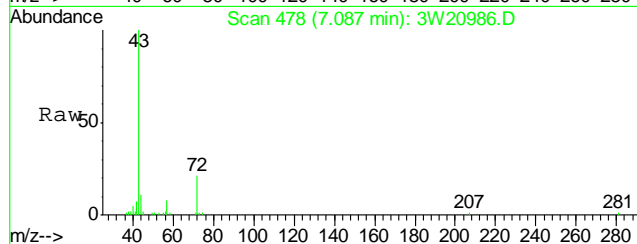
#33
 HEXANE
 Concen: 0.13 PPBV
 RT: 7.48 min Scan# 543
 Delta R.T. -0.01 min
 Lab File: 3W20986.D
 Acq: 24 Feb 2011 6:57 pm

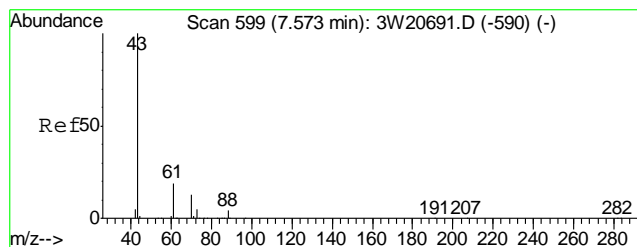
Tgt Ion	Ratio	Lower	Upper
57	100		
56	58.9	30.5	70.5
41	131.5	79.2	119.2



#36
 METHYL ETHYL KETONE
 Concen: 0.80 PPBV
 RT: 7.09 min Scan# 478
 Delta R.T. 0.01 min
 Lab File: 3W20986.D
 Acq: 24 Feb 2011 6:57 pm

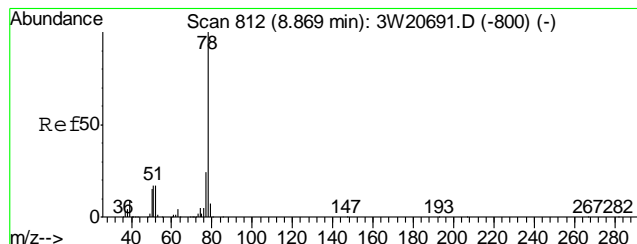
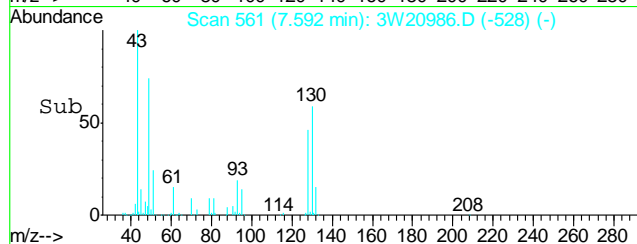
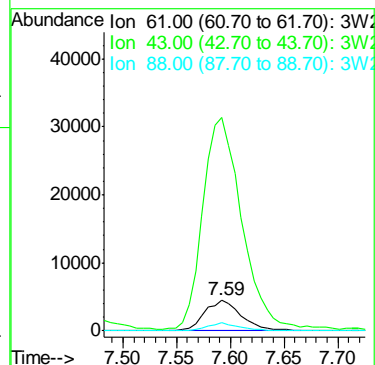
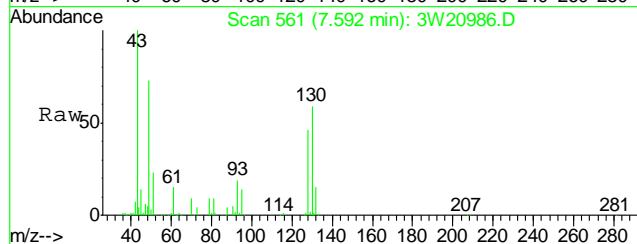
Tgt Ion	Ratio	Lower	Upper
72	100		
57	38.8	11.3	51.3
43	470.5	384.1	424.1





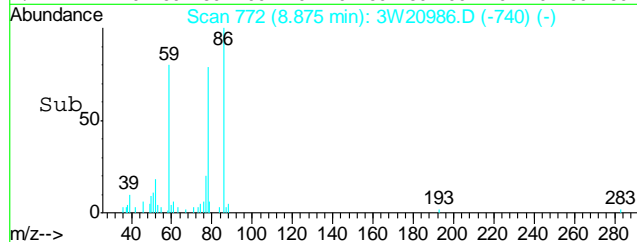
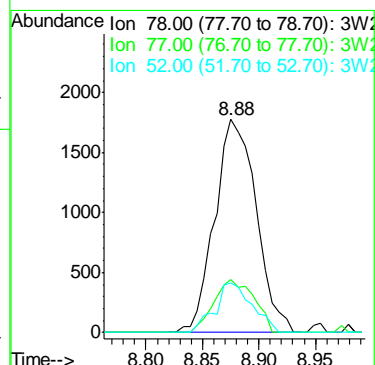
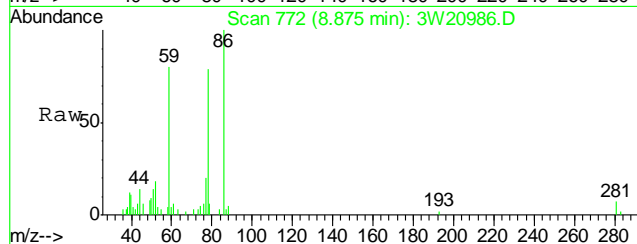
#39
ETHYL ACETATE
Concen: 2.70 PPBV
RT: 7.59 min Scan# 561
Delta R.T. 0.00 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

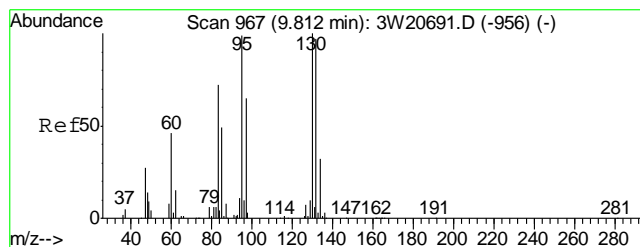
Tgt Ion	Ratio	Lower	Upper
61	100		
43	743.1	682.3	722.3
88	23.7	6.1	46.1



#46
BENZENE
Concen: 0.10 PPBV
RT: 8.88 min Scan# 772
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

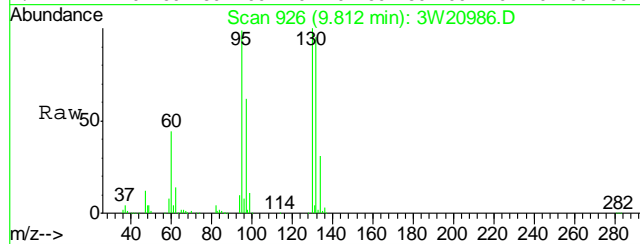
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	3.6	43.6
52	20.8	0.0	35.5





#49
TRICHLOROETHYLENE
Concen: 9.72 PPBV
RT: 9.81 min Scan# 926
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

Tgt Ion:	95	Resp:	210205
Ion Ratio	Lower	Upper	
95	100		
132	98.8	83.4	123.4
130	101.7	87.1	127.1
97	64.3	44.2	84.2



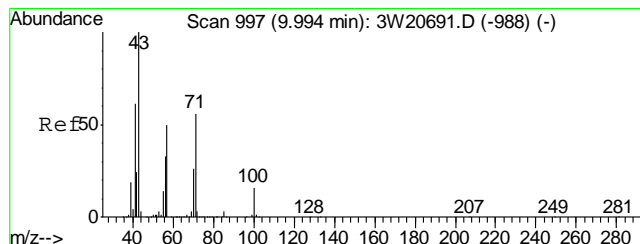
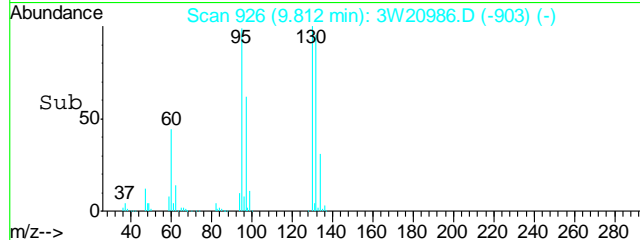
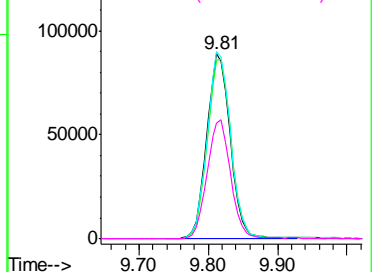
Abundance

Ion 95.00 (94.70 to 95.70): 3W20986.D

Ion 132.00 (131.70 to 132.70): 3W20986.D

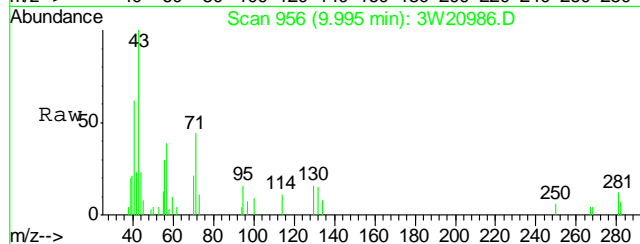
Ion 130.00 (129.70 to 130.70): 3W20986.D

Ion 97.00 (96.70 to 97.70): 3W20986.D



#54
HEPTANE
Concen: 0.11 PPBV
RT: 9.99 min Scan# 956
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

Tgt Ion:	43	Resp:	3409
Ion Ratio	Lower	Upper	
43	100		
71	41.5	36.1	76.1
57	62.3	32.3	72.3

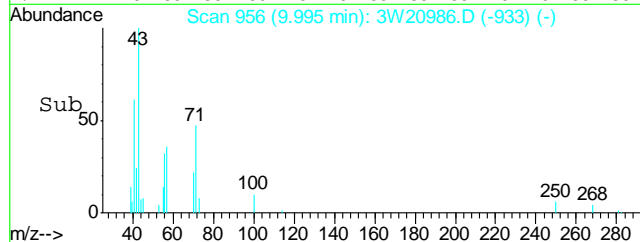
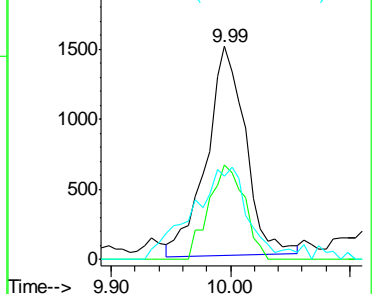


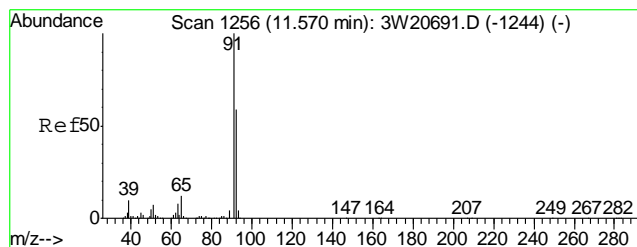
Abundance

Ion 43.00 (42.70 to 43.70): 3W20986.D

Ion 71.00 (70.70 to 71.70): 3W20986.D

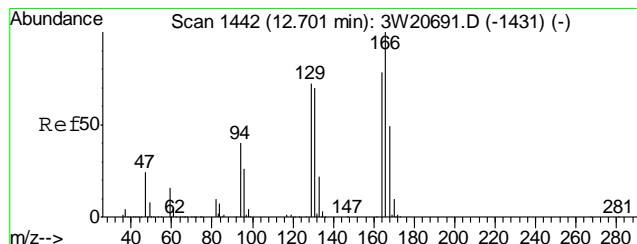
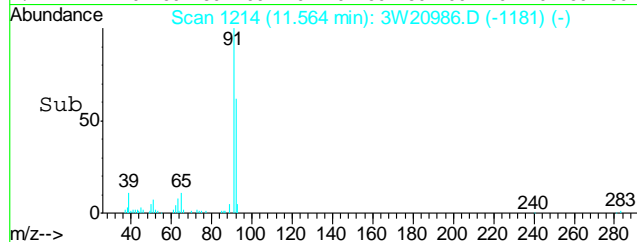
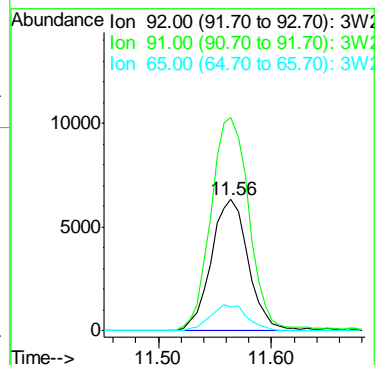
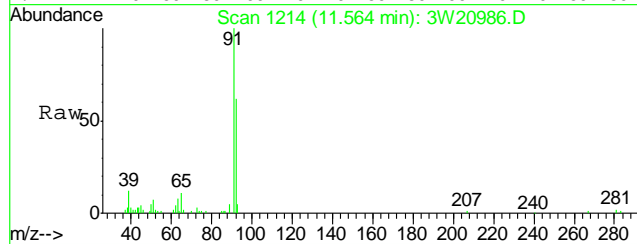
Ion 57.00 (56.70 to 57.70): 3W20986.D





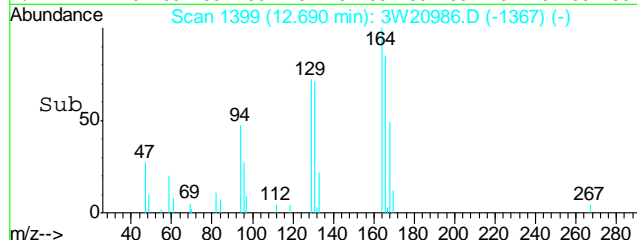
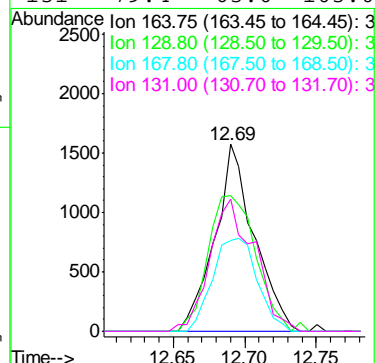
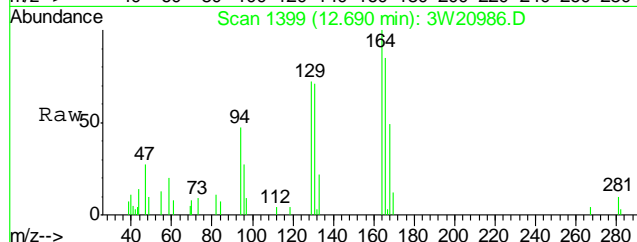
#59
TOLUENE
Concen: 0.51 PPBV
RT: 11.56 min Scan# 1214
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

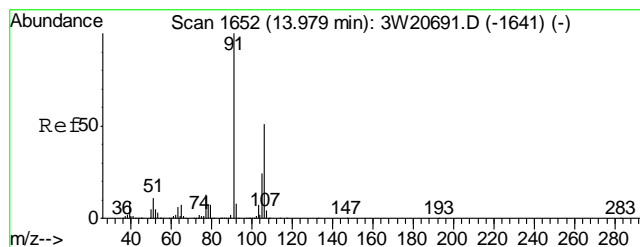
Tgt Ion	Ratio	Lower	Upper
92	100		
91	168.3	148.6	188.6
65	19.6	0.0	38.0



#64
TETRACHLOROETHYLENE
Concen: 0.12 PPBV
RT: 12.69 min Scan# 1399
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

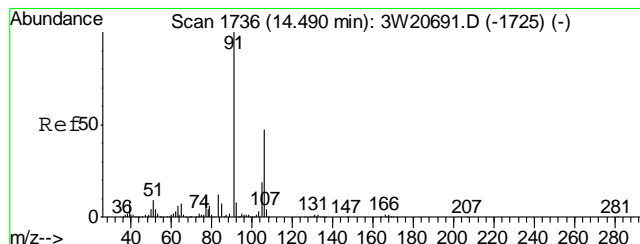
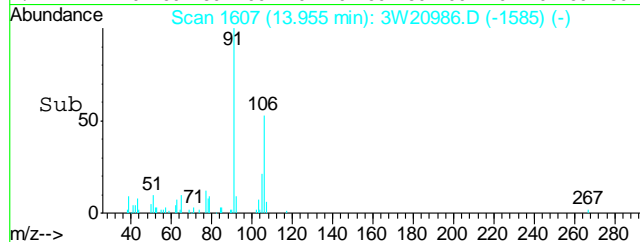
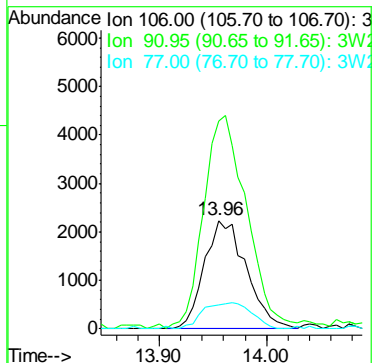
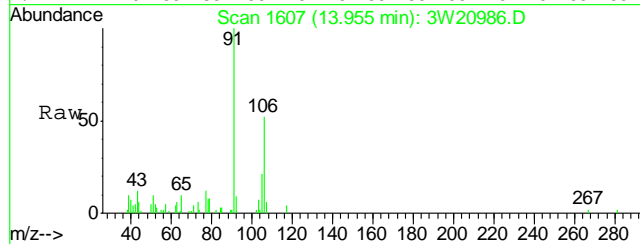
Tgt Ion	Ratio	Lower	Upper
164	100		
129	88.5	65.6	105.6
168	56.4	42.3	82.3
131	79.4	63.0	103.0





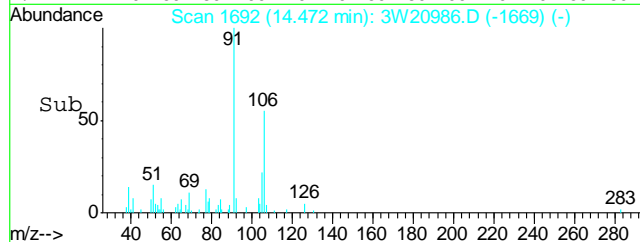
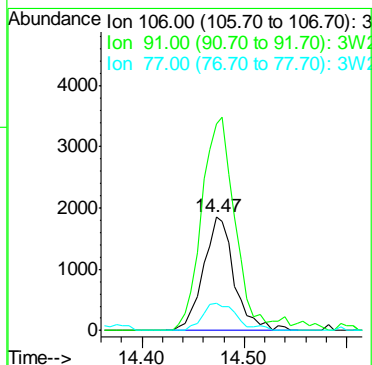
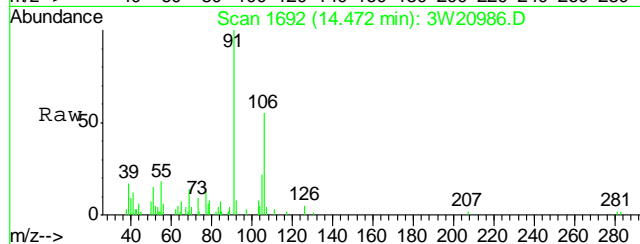
#71
m,p-XYLENE
Concen: 0.30 PPBV
RT: 13.96 min Scan# 1607
Delta R.T. -0.02 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

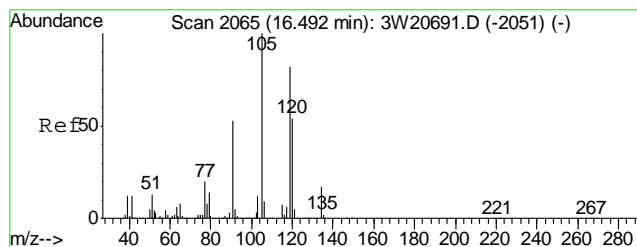
Tgt Ion	Ratio	Lower	Upper
106	100		
91	191.8	176.1	216.1
77	22.3	4.4	44.4



#72
o-XYLENE
Concen: 0.20 PPBV
RT: 14.47 min Scan# 1692
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

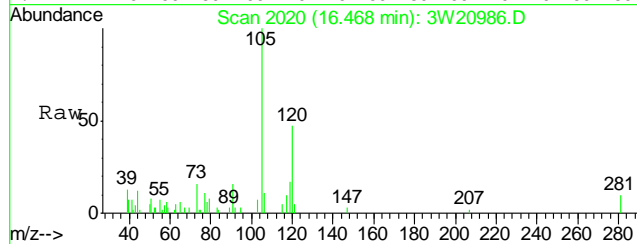
Tgt Ion	Ratio	Lower	Upper
106	100		
91	202.8	186.8	226.8
77	26.7	3.9	43.9





#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.19 PPBV
RT: 16.47 min Scan# 2020
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	39.2	79.2
119	14.4	104.5	144.5#



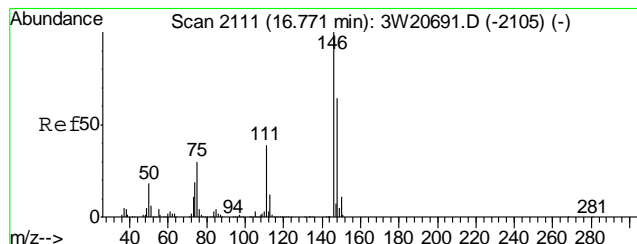
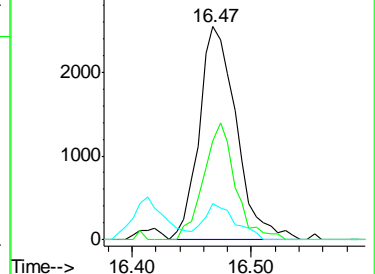
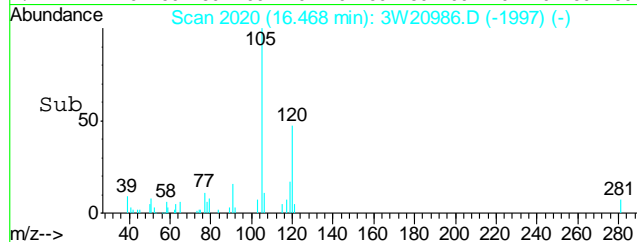
Abundance

Ion 105.00 (104.70 to 105.70): 3

Ion 120.00 (119.70 to 120.70): 3

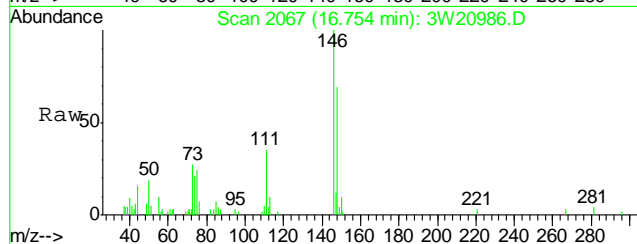
Ion 119.00 (118.70 to 119.70): 3

16.47



#88
p-DICHLOROBENZENE
Concen: 0.31 PPBV
RT: 16.75 min Scan# 2067
Delta R.T. -0.01 min
Lab File: 3W20986.D
Acq: 24 Feb 2011 6:57 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.5	44.2	84.2
111	37.4	14.5	54.5



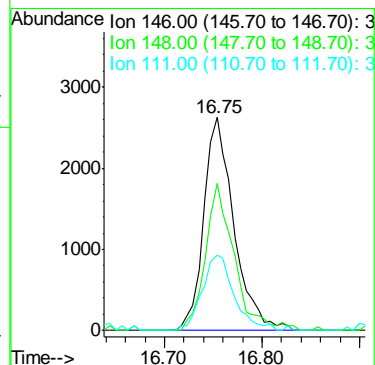
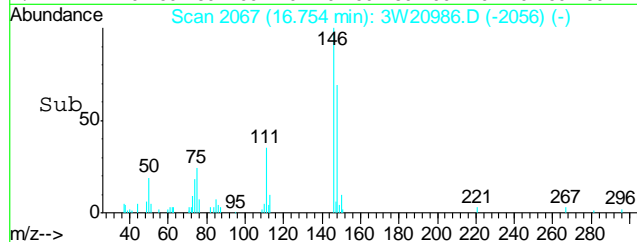
Abundance

Ion 146.00 (145.70 to 146.70): 3

Ion 148.00 (147.70 to 148.70): 3

Ion 111.00 (110.70 to 111.70): 3

16.75



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21018.D Vial: 1
 Acq On : 25 Feb 2011 7:00 pm Operator: yunxiac
 Sample : JA68864-8dup Inst : MS3W
 Misc : MS8680,V3W829,400,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 28 08:22:31 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	138124	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.21	114	663274	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.37	82	302375	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	301458	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 163392 5.08 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 101.60%

Target Compounds

						Qvalue
5) DICHLORODIFLUOROMETHANE	4.38	85	19145	0.47	PPBV	98
6) PROPYLENE	4.34	41	14303	0.93	PPBV #	73
8) CHLOROMETHANE	4.49	50	8346	0.48	PPBV	92
11) n-BUTANE	4.73	43	70015	2.62	PPBV #	96
16) TRICHLOROFLUOROMETHANE	5.46	101	10719	0.27	PPBV	97
17) ISOPROPYL ALCOHOL	5.69	45	18644m	0.83	PPBV	
18) ACETONE	5.40	58	27034	4.95	PPBV #	81
19) PENTANE	5.65	42	40892	2.22	PPBV	95
24) ETHANOL	5.16	45	53266	9.47	PPBV	100
26) METHYLENE CHLORIDE	5.97	84	3505	0.27	PPBV	95
32) TETRAHYDROFURAN	8.13	72	1710	0.31	PPBV	89
33) HEXANE	7.49	57	23899	0.97	PPBV	90
36) METHYL ETHYL KETONE	7.11	72	4153	0.81	PPBV #	24
39) ETHYL ACETATE	7.60	61	55893	15.63	PPBV #	86
46) BENZENE	8.89	78	25152	0.63	PPBV	97
47) CYCLOHEXANE	9.06	56	6288	0.25	PPBV	84
52) 2,2,4-TRIMETHYLPENTANE	9.76	57	36524	0.54	PPBV	79
54) HEPTANE	10.01	43	10274	0.37	PPBV	94
59) TOLUENE	11.57	92	61357	2.41	PPBV	99
67) OCTANE	12.48	43	7409	0.22	PPBV	86
70) ETHYLBENZENE	13.79	91	11112	0.23	PPBV	97
71) m,p-XYLENE	13.97	106	14348	0.81	PPBV	98
72) o-XYLENE	14.48	106	5144	0.31	PPBV	95
74) NONANE	14.67	43	4618	0.17	PPBV #	87
82) 4-ETHYLTOLUENE	15.89	105	3569m	0.10	PPBV	
83) 1,3,5-TRIMETHYLBENZENE	15.99	105	3744	0.13	PPBV	96
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	10799	0.43	PPBV #	28

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21018.D M3W821.M Mon Feb 28 12:22:03 2011 MS3W

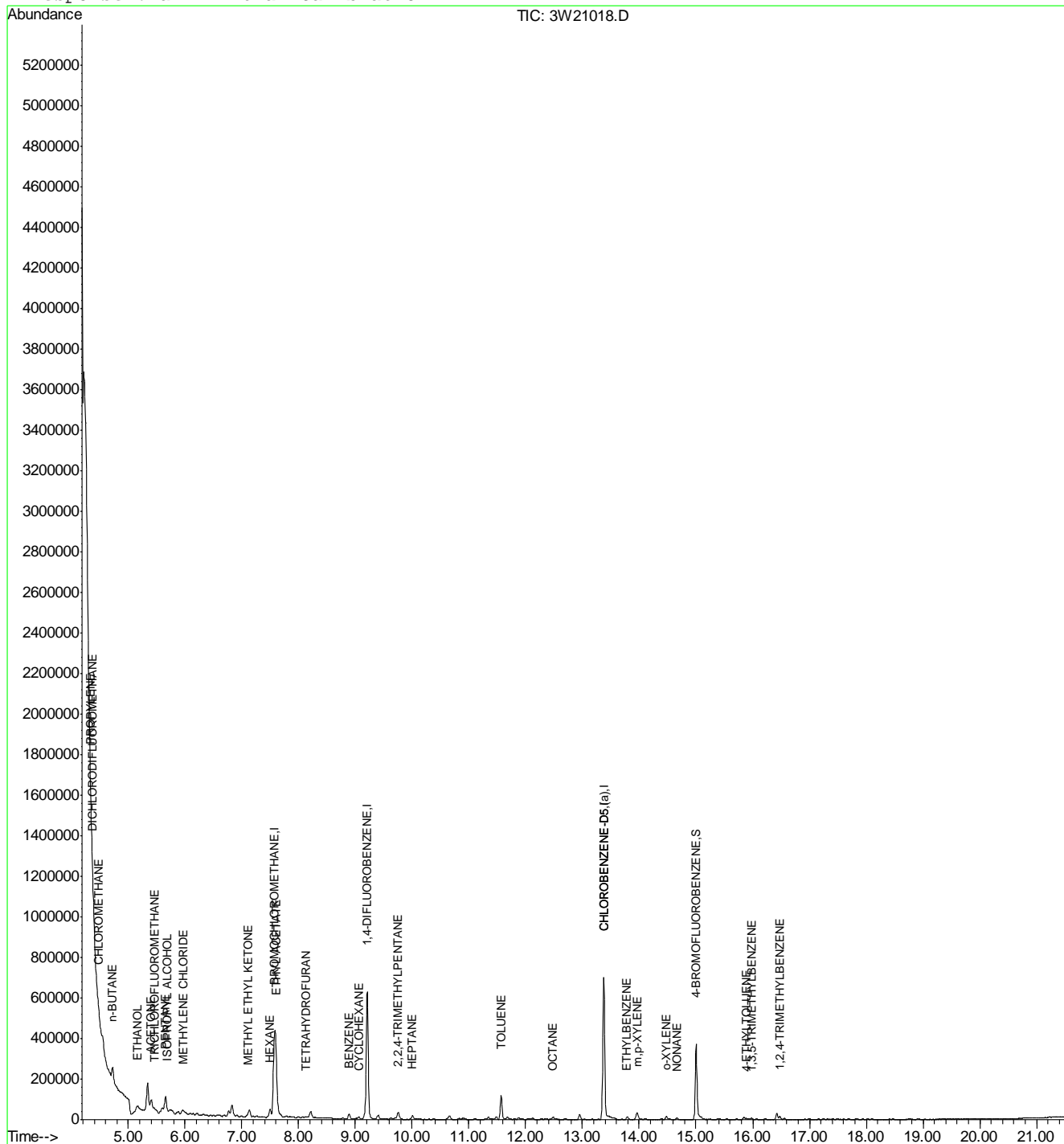
Quantitation Report (QT Reviewed)

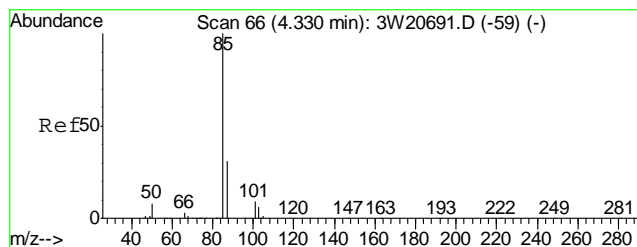
Data File : C:\MSDCHEM\1\DATA\3W21018.D
Acq On : 25 Feb 2011 7:00 pm
Sample : JA68864-8dup
Misc : MS8680,V3W829,400,,,1
MS Integration Params: rteint.p
Quant Time: Feb 28 11:27 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

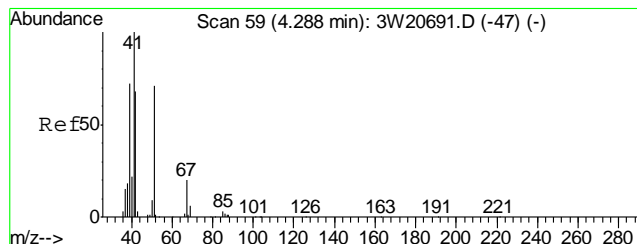
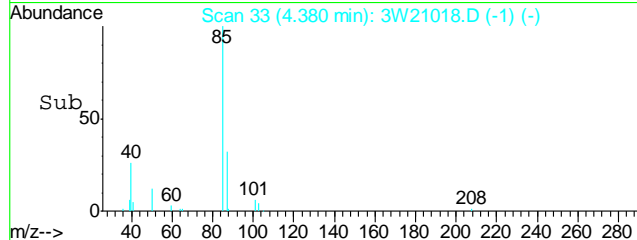
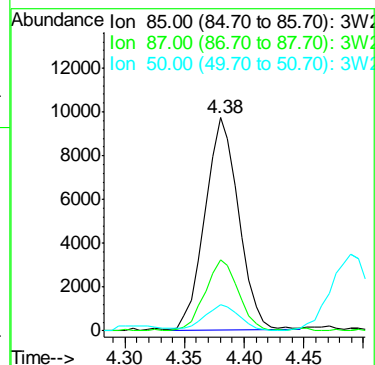
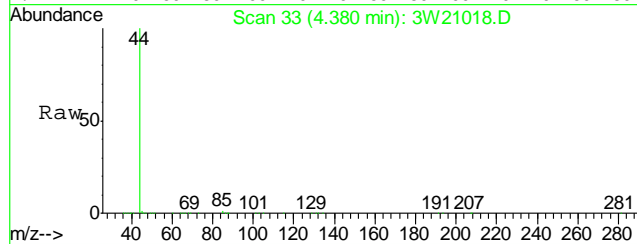
Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration





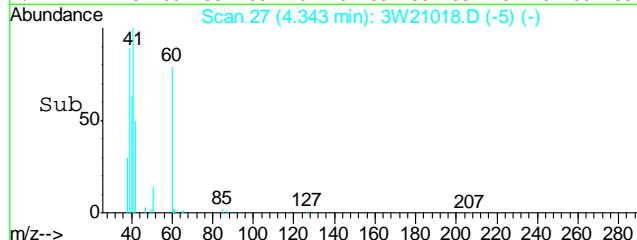
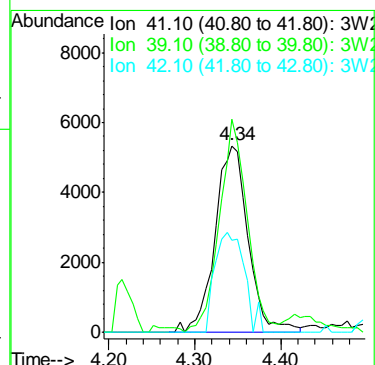
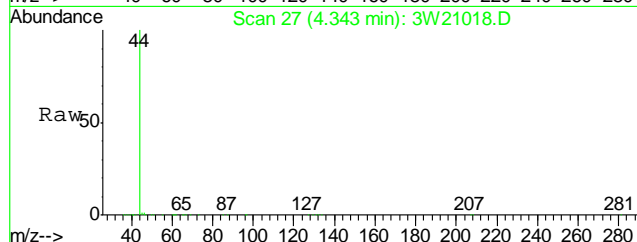
#5
DICHLORODIFLUOROMETHANE
Concen: 0.47 PPBV
RT: 4.38 min Scan# 33
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

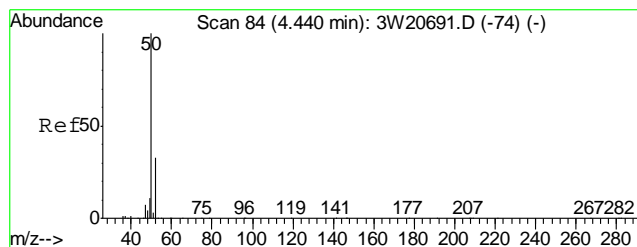
Tgt Ion: 85	Resp: 19145
Ion Ratio	Lower Upper
85	100
87	32.8 12.9 52.9
50	13.0 0.0 30.6



#6
PROPYLENE
Concen: 0.93 PPBV
RT: 4.34 min Scan# 27
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

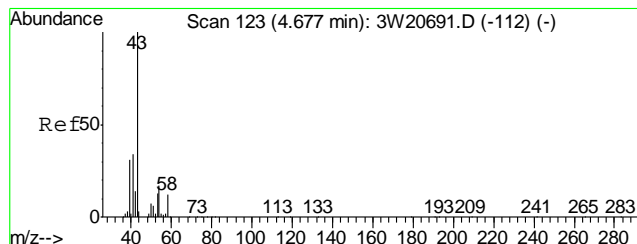
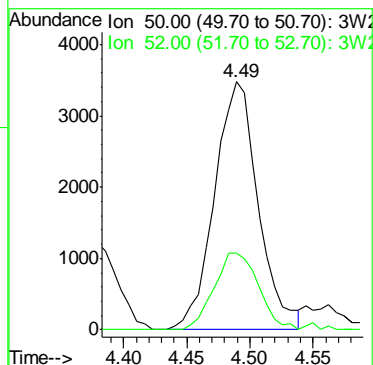
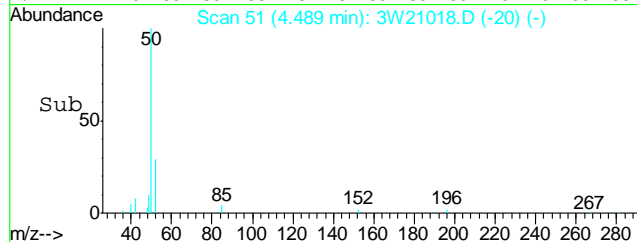
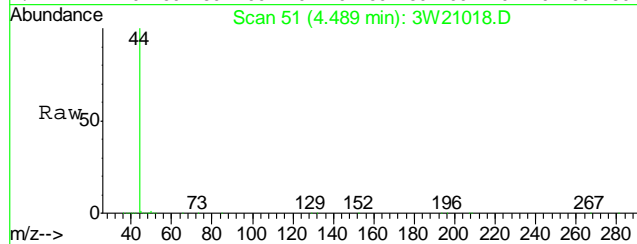
Tgt Ion: 41	Resp: 14303
Ion Ratio	Lower Upper
41	100
39	96.4 50.7 90.7#
42	48.1 46.0 86.0





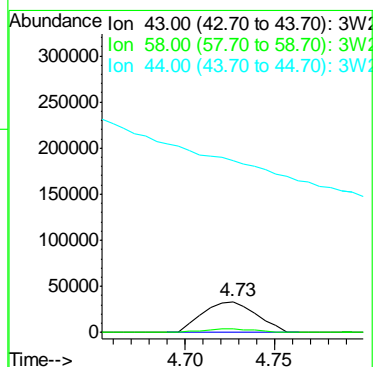
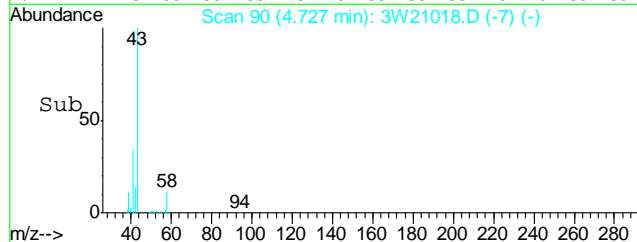
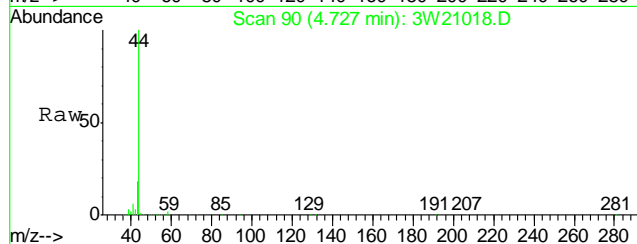
#8
CHLOROMETHANE
Concen: 0.48 PPBV
RT: 4.49 min Scan# 51
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

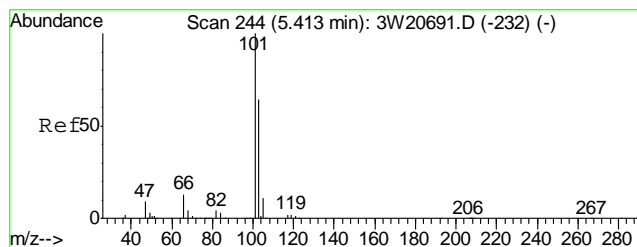
Tgt Ion: 50 Resp: 8346
Ion Ratio Lower Upper
50 100
52 32.2 17.2 57.2



#11
n-BUTANE
Concen: 2.62 PPBV
RT: 4.73 min Scan# 90
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

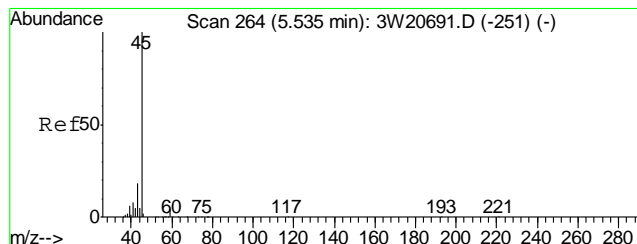
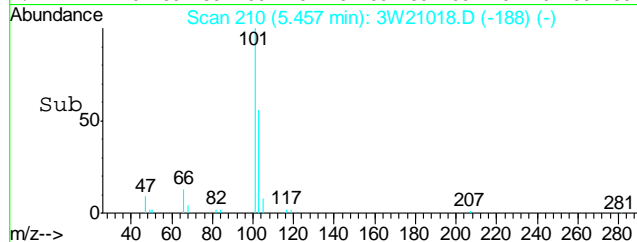
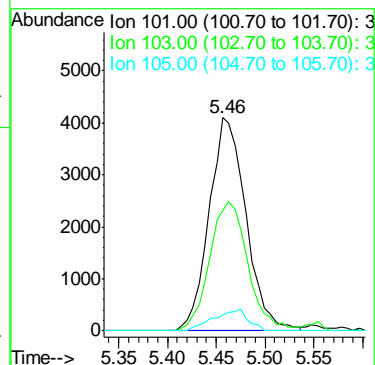
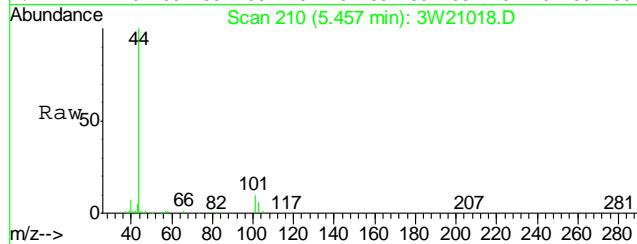
Tgt Ion: 43 Resp: 70015
Ion Ratio Lower Upper
43 100
58 11.4 0.0 32.1
44 0.0 0.0 23.9





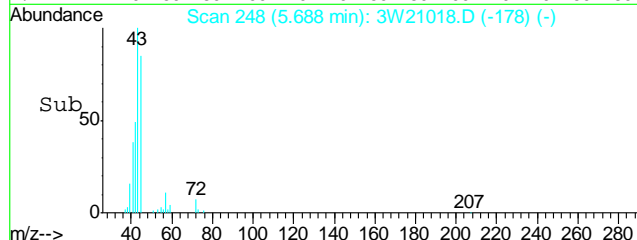
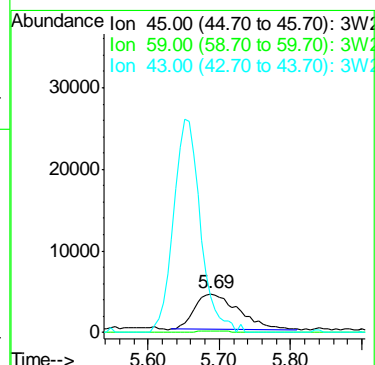
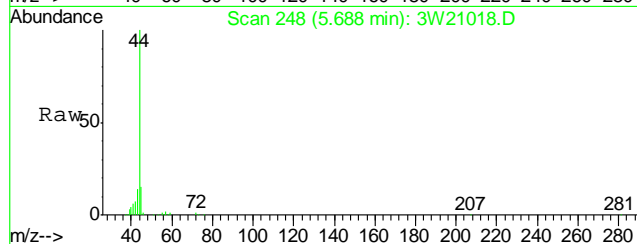
#16
TRICHLOROFLUOROMETHANE
Concen: 0.27 PPBV
RT: 5.46 min Scan# 210
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

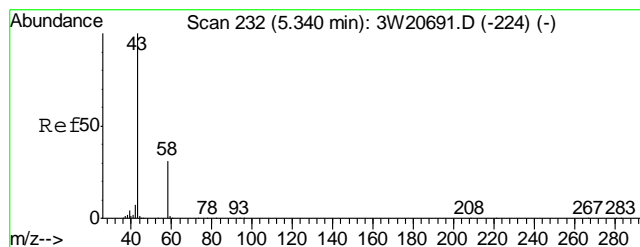
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.0	45.5	85.5
105	9.5	0.0	30.6



#17
ISOPROPYL ALCOHOL
Concen: 0.83 PPBV m
RT: 5.69 min Scan# 248
Delta R.T. 0.13 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

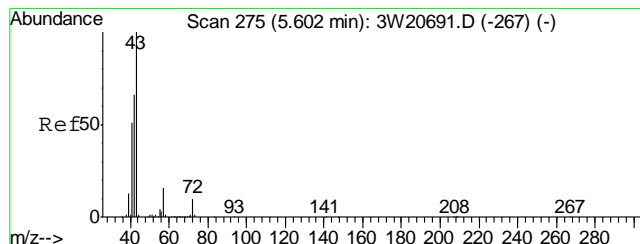
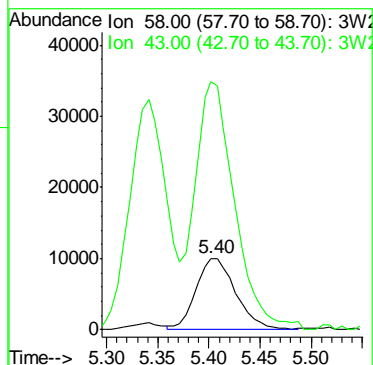
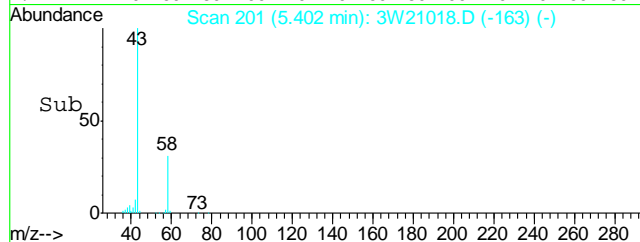
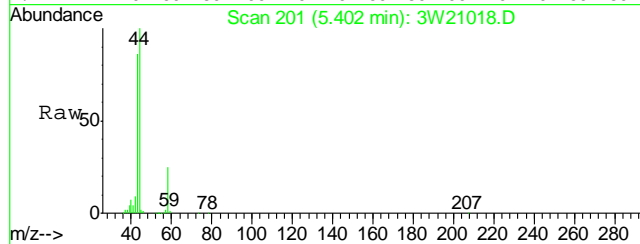
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.5	0.0	23.7
43	93.0	0.0	37.4





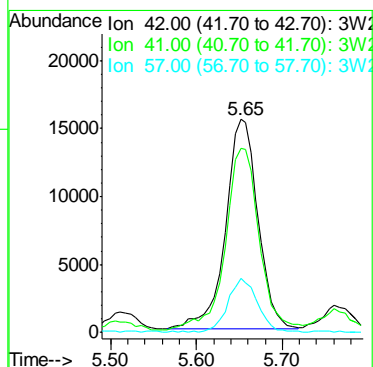
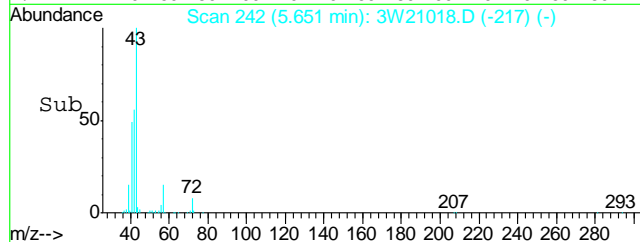
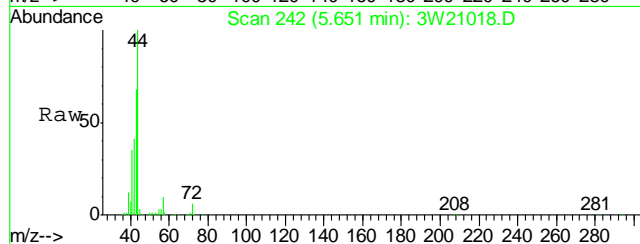
#18
ACETONE
Concen: 4.95 PPBV
RT: 5.40 min Scan# 201
Delta R.T. 0.03 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

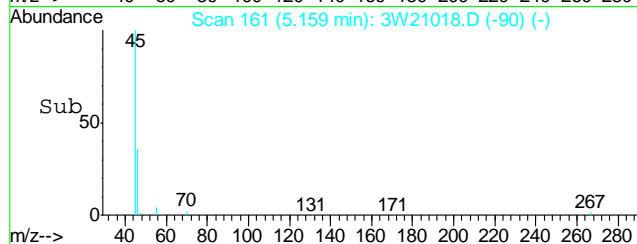
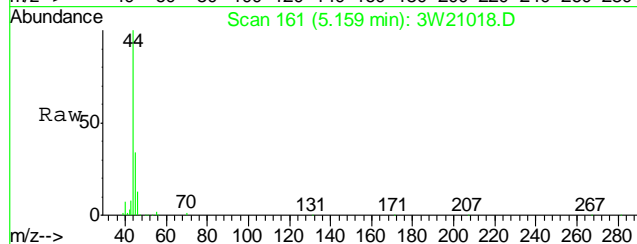
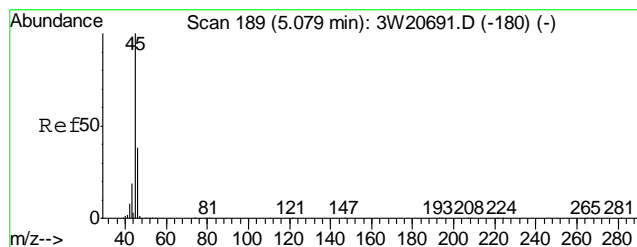
Tgt Ion: 58 Resp: 27034
Ion Ratio Lower Upper
58 100
43 346.6 289.1 329.1#



#19
PENTANE
Concen: 2.22 PPBV
RT: 5.65 min Scan# 242
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

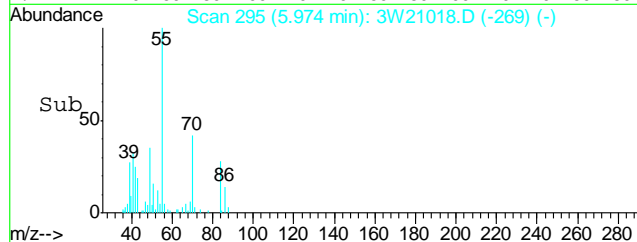
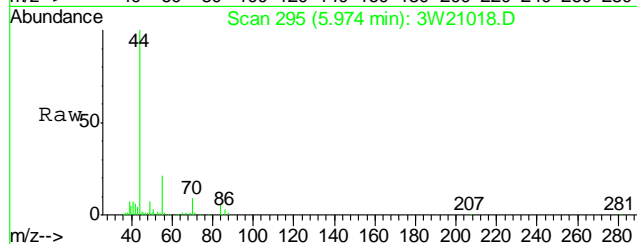
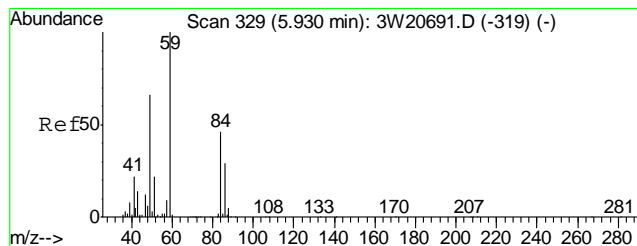
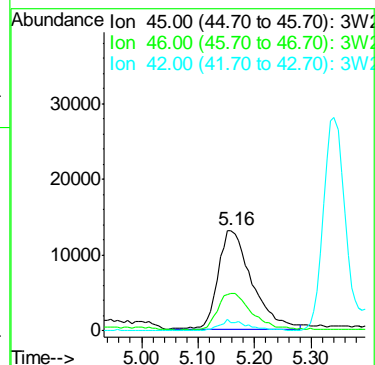
Tgt Ion: 42 Resp: 40892
Ion Ratio Lower Upper
42 100
41 90.3 65.1 105.1
57 23.7 5.2 45.2





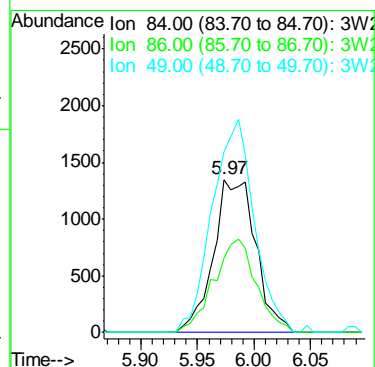
#24
ETHANOL
Concen: 9.47 PPBV
RT: 5.16 min Scan# 161
Delta R.T. 0.05 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

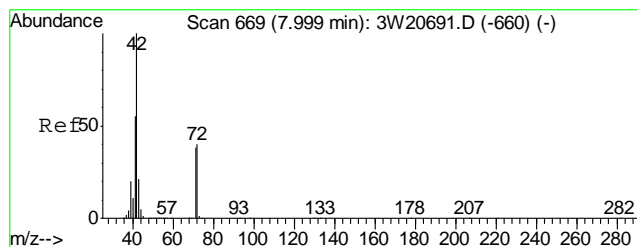
Tgt Ion:	45	Resp:	53266
Ion Ratio	Lower	Upper	
45	100		
46	38.0	18.2	58.2
42	7.9	0.0	27.7



#26
METHYLENE CHLORIDE
Concen: 0.27 PPBV
RT: 5.97 min Scan# 295
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

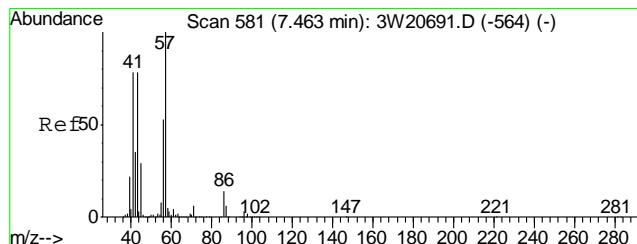
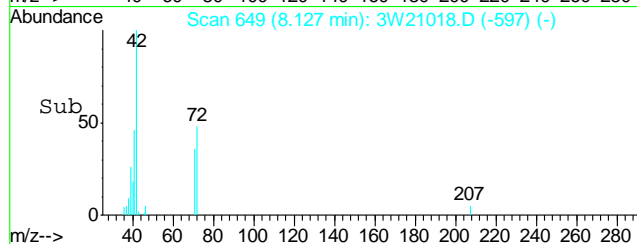
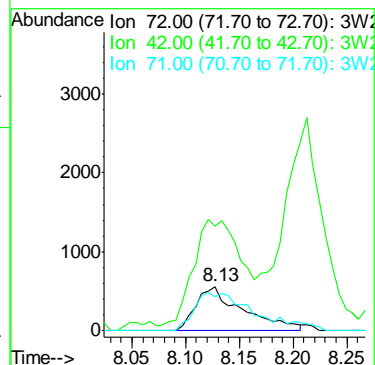
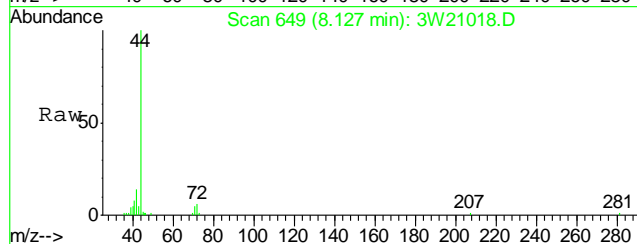
Tgt Ion:	84	Resp:	3505
Ion Ratio	Lower	Upper	
84	100		
86	61.2	45.3	85.3
49	137.8	0.0	332.7





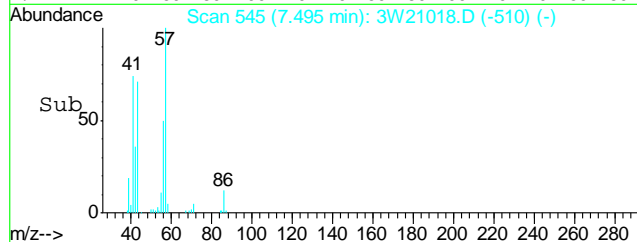
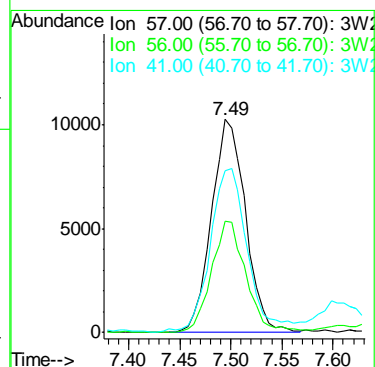
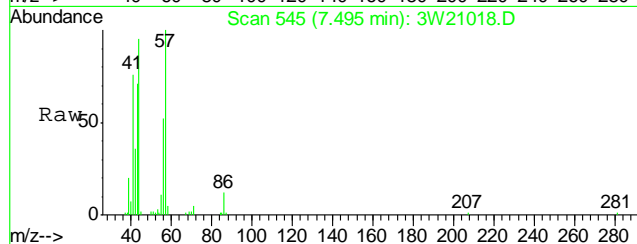
#32
TETRAHYDROFURAN
Concen: 0.31 PPBV
RT: 8.13 min Scan# 649
Delta R.T. 0.12 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

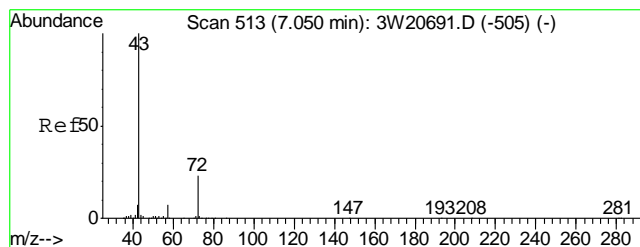
Tgt Ion:	72	Resp:	1710
Ion Ratio	Lower	Upper	
72	100		
42	257.8	219.7	259.7
71	107.6	75.6	115.6



#33
HEXANE
Concen: 0.97 PPBV
RT: 7.49 min Scan# 545
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

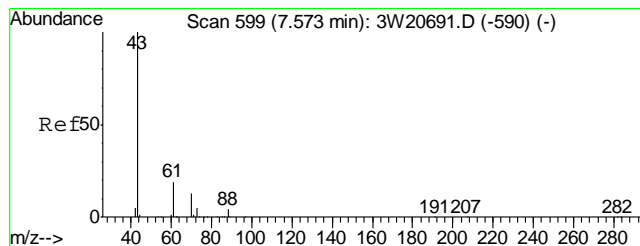
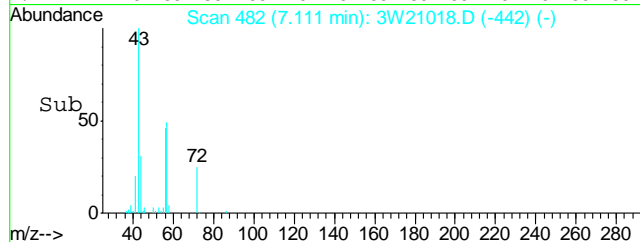
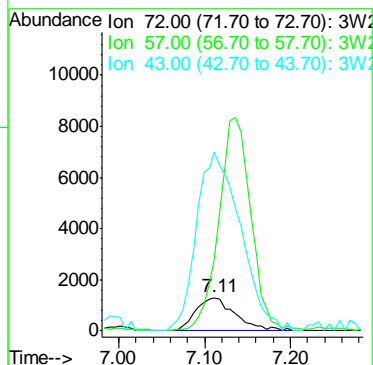
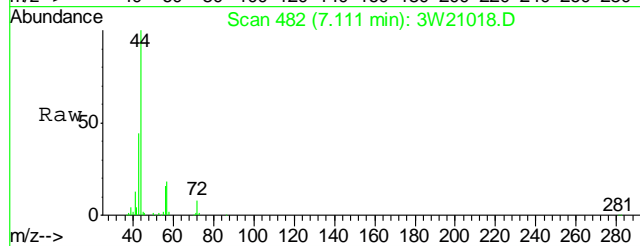
Tgt Ion:	57	Resp:	23899
Ion Ratio	Lower	Upper	
57	100		
56	53.1	30.5	70.5
41	85.6	79.2	119.2





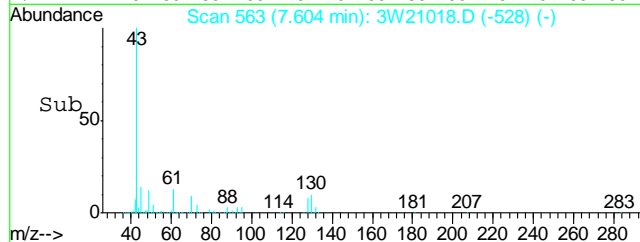
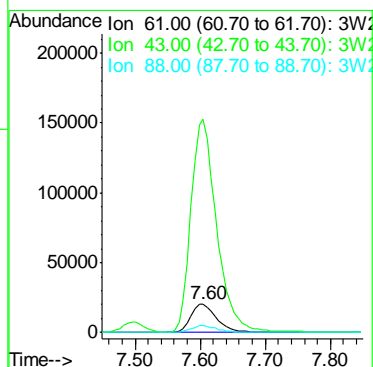
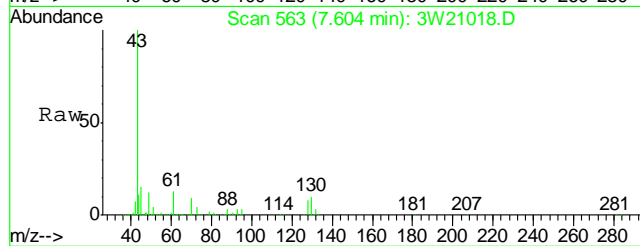
#36
METHYL ETHYL KETONE
Concen: 0.81 PPBV
RT: 7.11 min Scan# 482
Delta R.T. 0.04 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

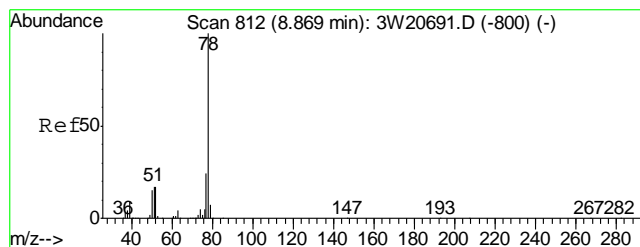
Tgt Ion	Ratio	Lower	Upper
72	100		
57	213.4	11.3	51.3#
43	539.7	384.1	424.1#



#39
ETHYL ACETATE
Concen: 15.63 PPBV
RT: 7.60 min Scan# 563
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

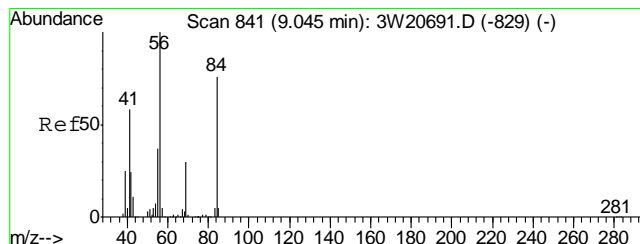
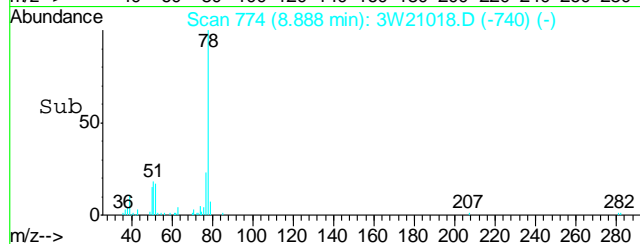
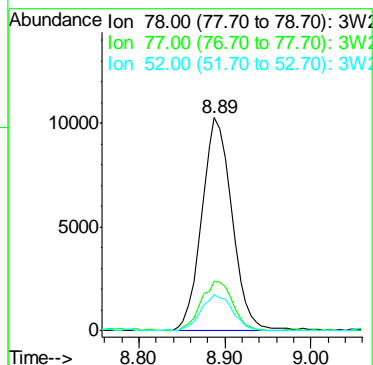
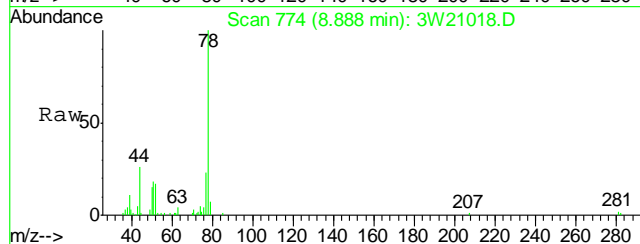
Tgt Ion	Ratio	Lower	Upper
61	100		
43	751.2	682.3	722.3#
88	24.8	6.1	46.1





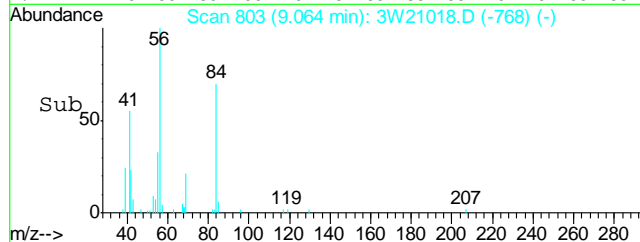
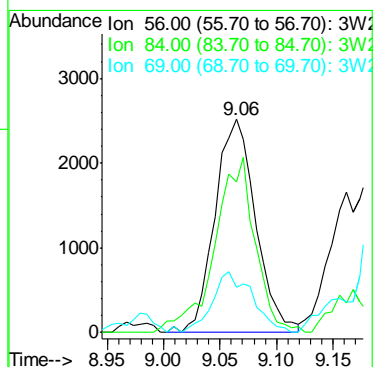
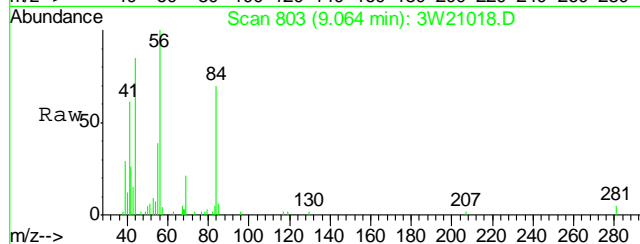
#46
 BENZENE
 Concen: 0.63 PPBV
 RT: 8.89 min Scan# 774
 Delta R.T. 0.00 min
 Lab File: 3W21018.D
 Acq: 25 Feb 2011 7:00 pm

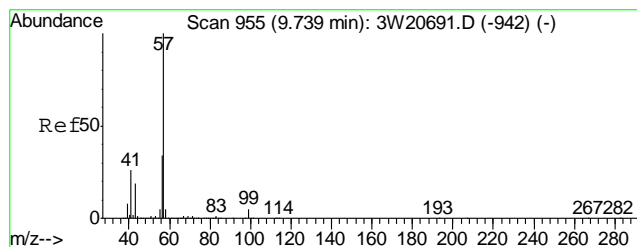
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	3.6	43.6
52	17.6	0.0	35.5



#47
 CYCLOHEXANE
 Concen: 0.25 PPBV
 RT: 9.06 min Scan# 803
 Delta R.T. 0.01 min
 Lab File: 3W21018.D
 Acq: 25 Feb 2011 7:00 pm

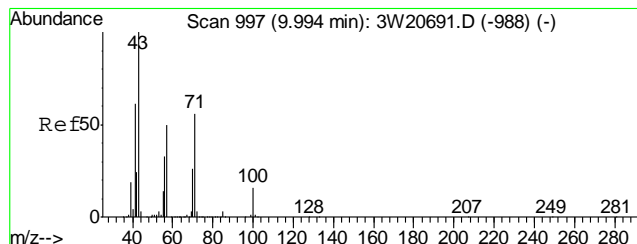
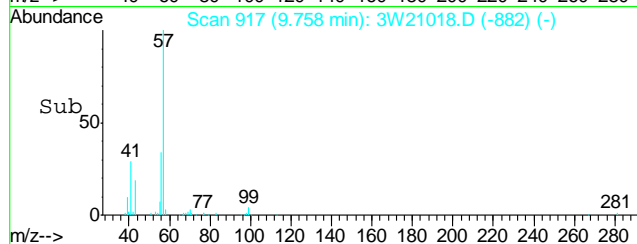
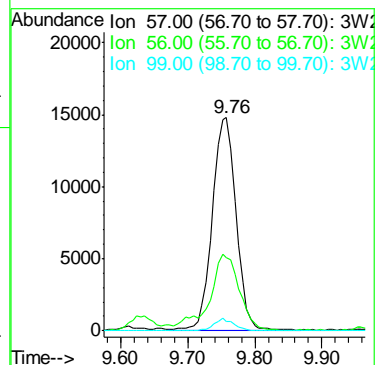
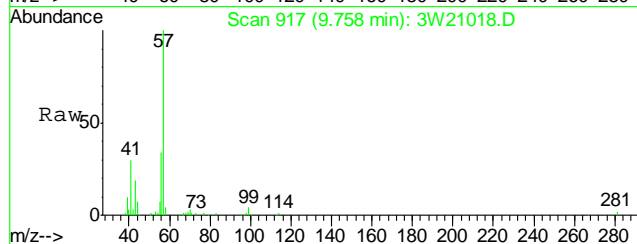
Tgt Ion	Ratio	Lower	Upper
56	100		
84	81.3	80.5	120.5
69	28.2	10.4	50.4





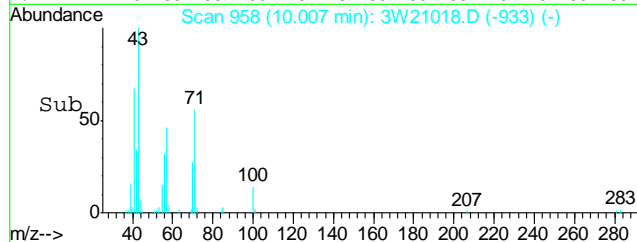
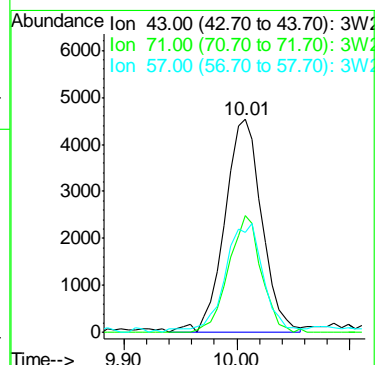
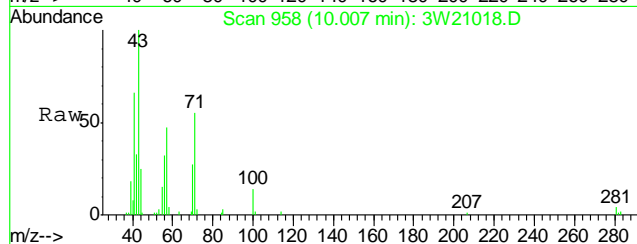
#52
2,2,4-TRIMETHYLPENTANE
Concen: 0.54 PPBV
RT: 9.76 min Scan# 917
Delta R.T. 0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

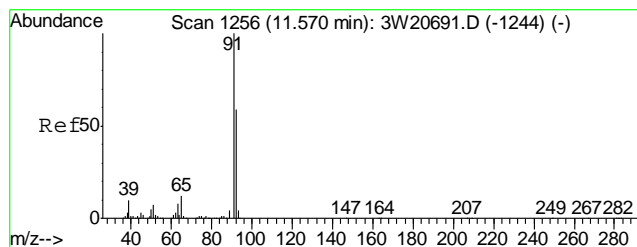
Tgt Ion	Ratio	Lower	Upper
57	100		
56	46.6	13.2	53.2
99	4.9	0.0	25.2



#54
HEPTANE
Concen: 0.37 PPBV
RT: 10.01 min Scan# 958
Delta R.T. 0.00 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

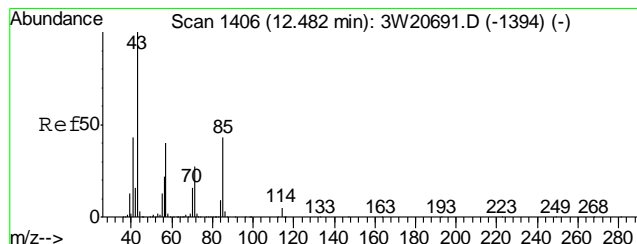
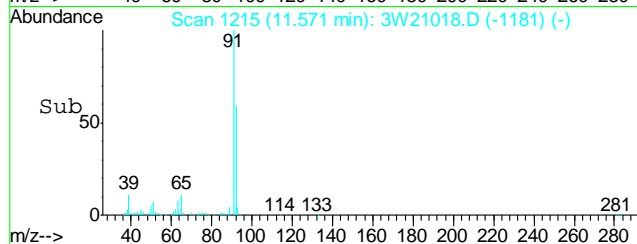
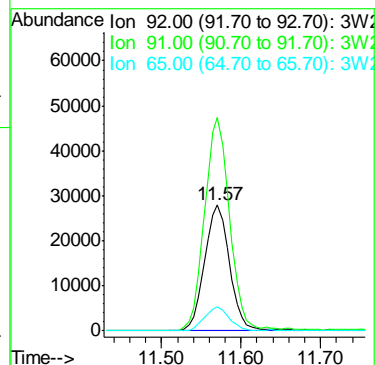
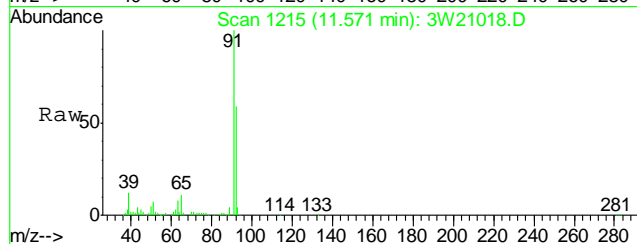
Tgt Ion	Ratio	Lower	Upper
43	100		
71	48.7	36.1	76.1
57	53.6	32.3	72.3





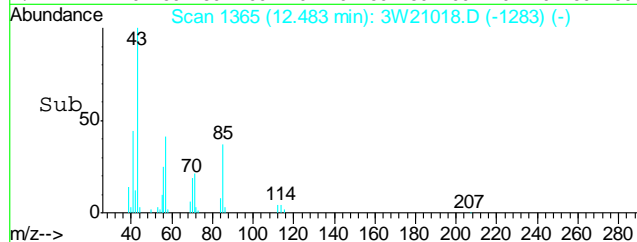
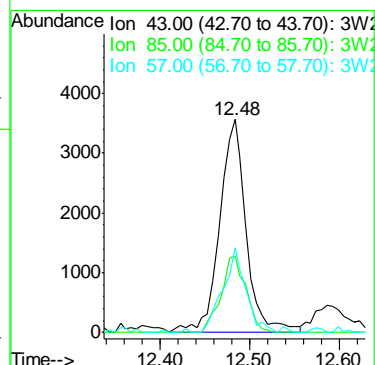
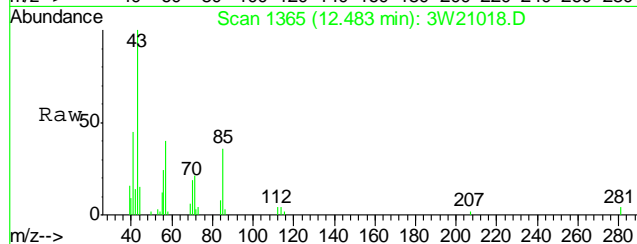
#59
TOLUENE
Concen: 2.41 PPBV
RT: 11.57 min Scan# 1215
Delta R.T. 0.00 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

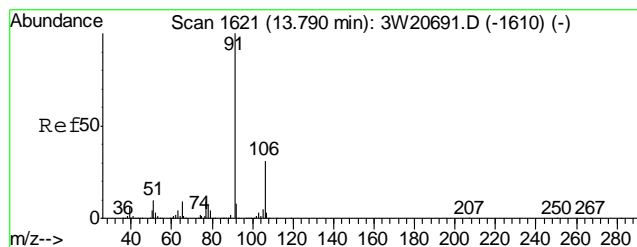
Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.7	148.6	188.6
65	18.8	0.0	38.0



#67
OCTANE
Concen: 0.22 PPBV
RT: 12.48 min Scan# 1365
Delta R.T. 0.00 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

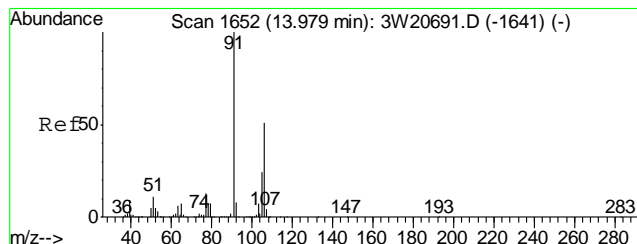
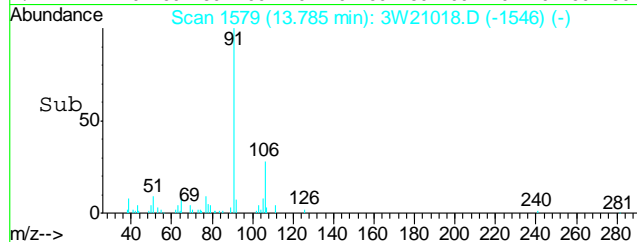
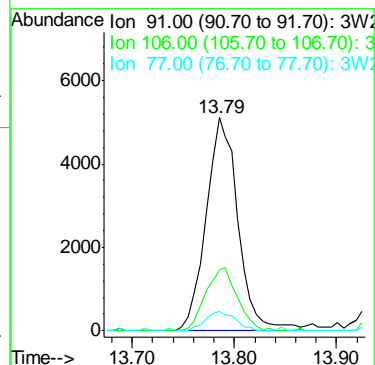
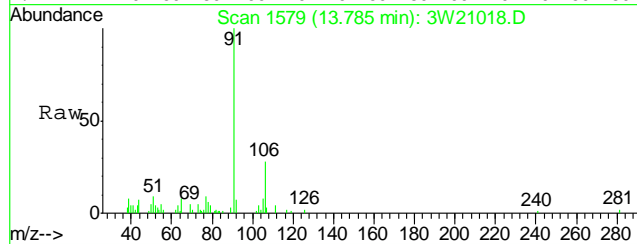
Tgt Ion	Ratio	Lower	Upper
43	100		
85	33.5	24.9	64.9
57	34.3	19.9	59.9





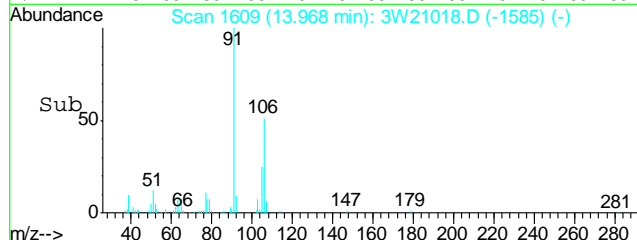
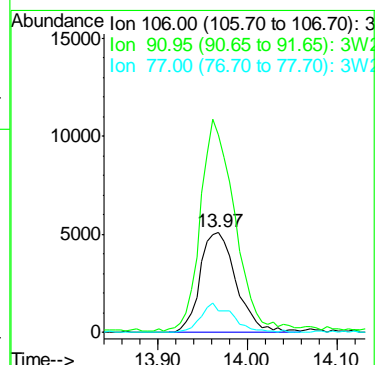
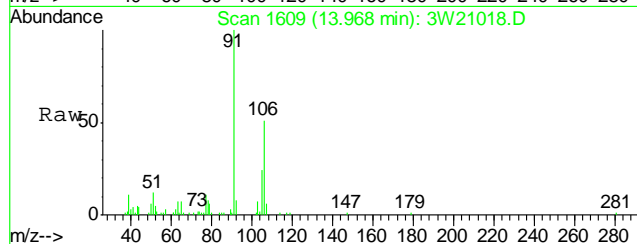
#70
ETHYLBENZENE
Concen: 0.23 PPBV
RT: 13.79 min Scan# 1579
Delta R.T. -0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

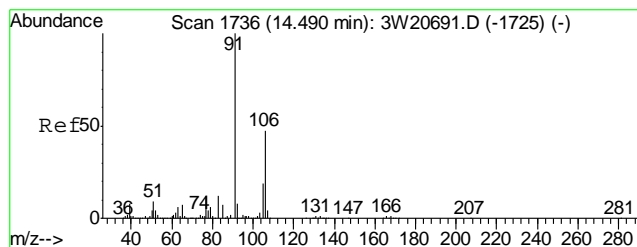
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.3	11.5	51.5
77	8.5	0.0	28.4



#71
m,p-XYLENE
Concen: 0.81 PPBV
RT: 13.97 min Scan# 1609
Delta R.T. -0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

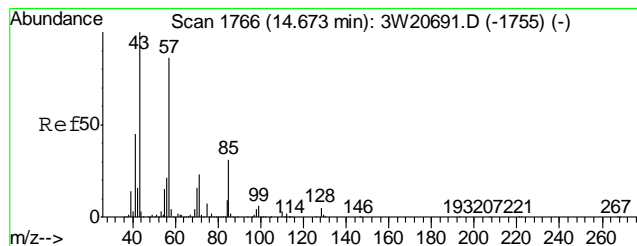
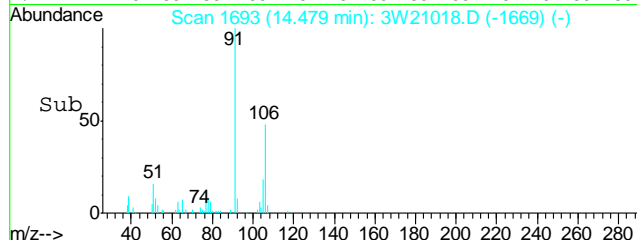
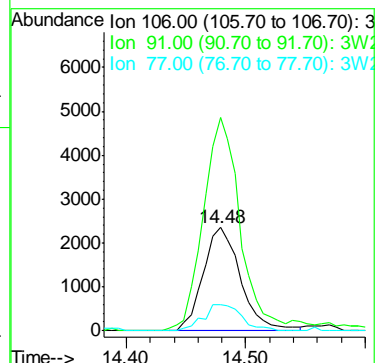
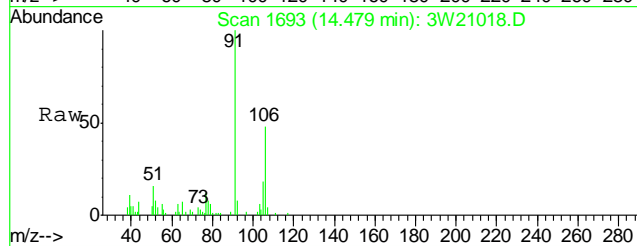
Tgt Ion	Ratio	Lower	Upper
106	100		
91	197.8	176.1	216.1
77	21.8	4.4	44.4





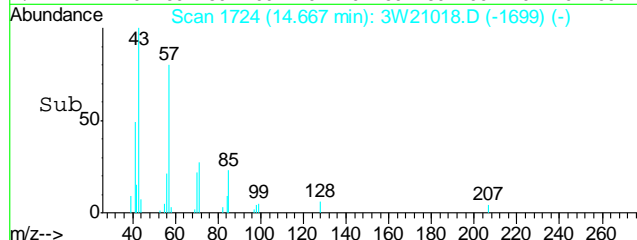
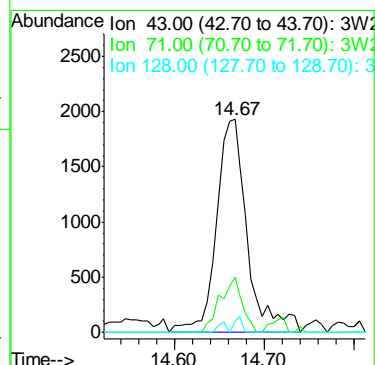
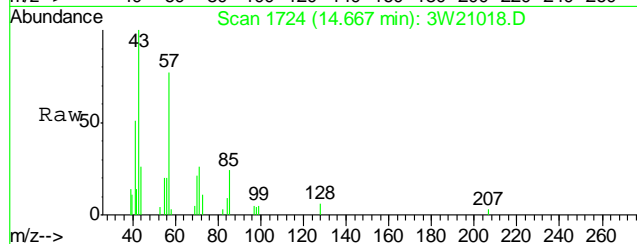
#72
o-XYLENE
Concen: 0.31 PPBV
RT: 14.48 min Scan# 1693
Delta R.T. -0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

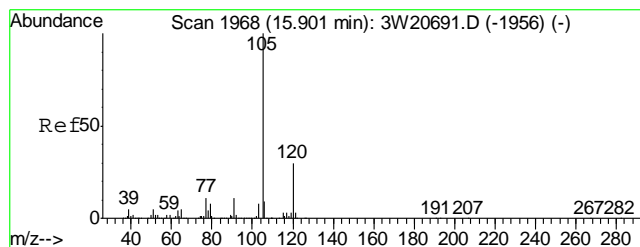
Tgt Ion	Ratio	Lower	Upper
106	100		
91	214.3	186.8	226.8
77	26.0	3.9	43.9



#74
NONANE
Concen: 0.17 PPBV
RT: 14.67 min Scan# 1724
Delta R.T. 0.00 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

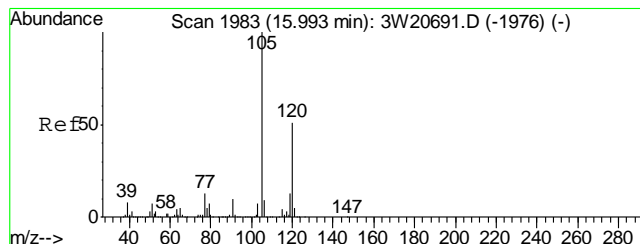
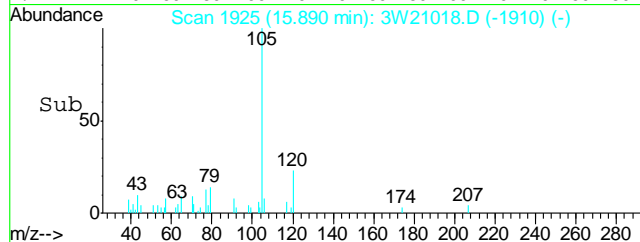
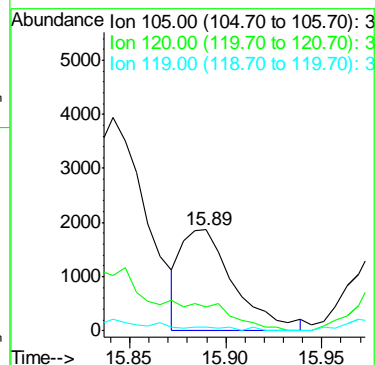
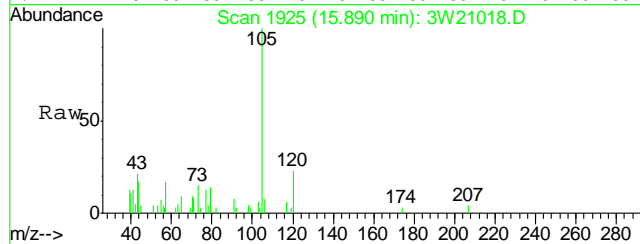
Tgt Ion	Ratio	Lower	Upper
43	100		
71	18.9	4.4	44.4
128	0.0	0.0	26.2





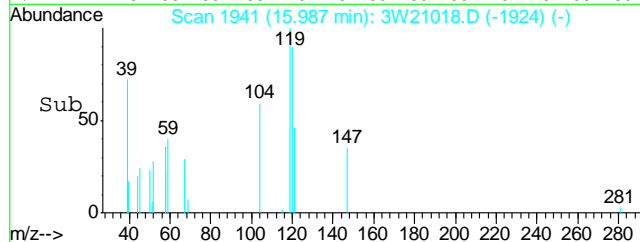
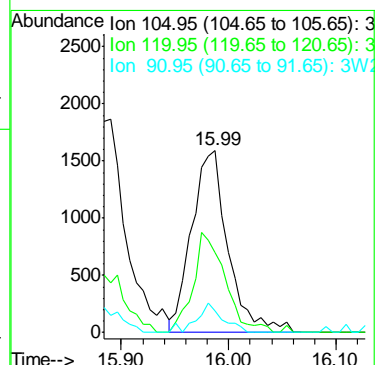
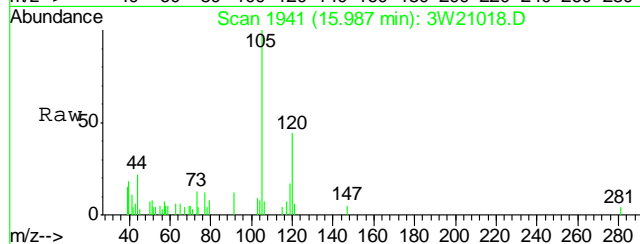
#82
4-ETHYLTOLUENE
Concen: 0.10 PPBV m
RT: 15.89 min Scan# 1925
Delta R.T. 0.00 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

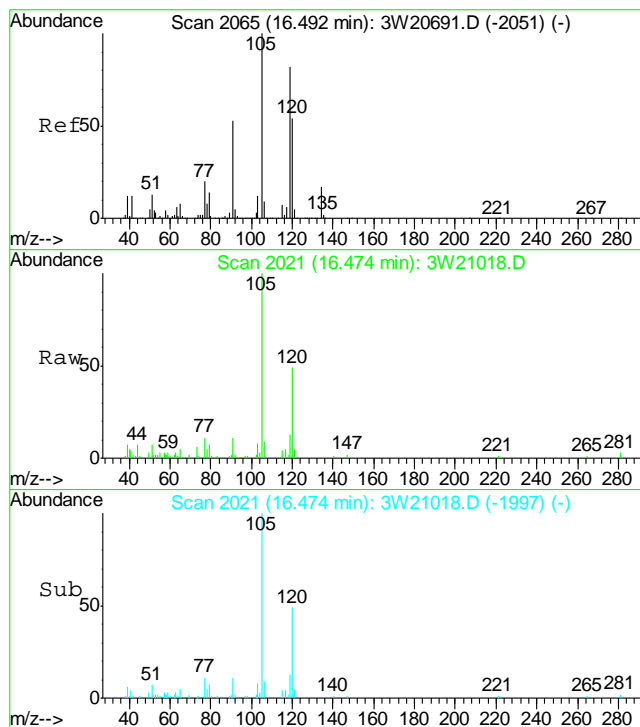
Tgt Ion	Ratio	Lower	Upper
105	100		
120	100.3	10.0	50.0#
119	14.2	0.0	22.6



#83
1,3,5-TRIMETHYLBENZENE
Concen: 0.13 PPBV
RT: 15.99 min Scan# 1941
Delta R.T. 0.00 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

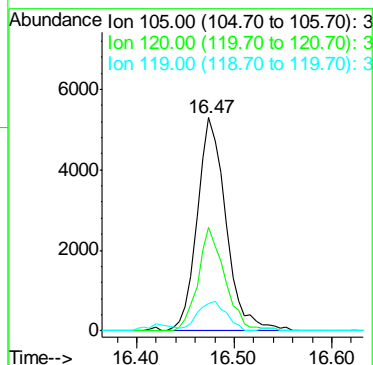
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.6	31.4	71.4
91	11.7	0.0	29.6





#85
1,2,4-TRIMETHYLBENZENE
Concen: 0.43 PPBV
RT: 16.47 min Scan# 2021
Delta R.T. -0.01 min
Lab File: 3W21018.D
Acq: 25 Feb 2011 7:00 pm

Tgt Ion	105	Resp	10799
Ion Ratio	Lower	Upper	
105	100		
120	45.4	39.2	79.2
119	13.9	104.5	144.5#



Manual Integration Approval Summary

Sample Number:

JA68864-8DUP

Method:

TO-15

Lab FileID:

3W21018.D

Analyst approved:

02/28/11 12:59 Yunxia Chen

Injection Time:

02/25/11 19:00

Supervisor approved:

03/02/11 15:36 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Isopropyl Alcohol	67-63-0		5.69	Missed peak
4-Ethyltoluene	622-96-8		15.89	Overlapping peak

6.4.2.1
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30133.D Vial: 9
 Acq On : 11 Feb 2011 2:38 pm Operator: YOUMINH
 Sample : SCC(A791) Inst : MSW
 Misc : MS8082,VW1236,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 14 08:18:23 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	112877	10.00	PPBV	-0.07
46) 1,4-DIFLUOROBENZENE	10.44	114	520755	10.00	PPBV	-0.06
63) CHLOROBENZENE-D5	14.69	82	253129	10.00	PPBV	-0.05
96) Chlorobenzene-d5(a)	14.69	82	251012	10.00	PPBV	-0.05

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE	16.33	95	138789	4.79	PPBV	-0.04
Spiked Amount	5.000	Range	65 - 128	Recovery	=	95.80%

Target Compounds

Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 W30133.D MW1222.M Mon Feb 14 10:28:04 2011 MSW

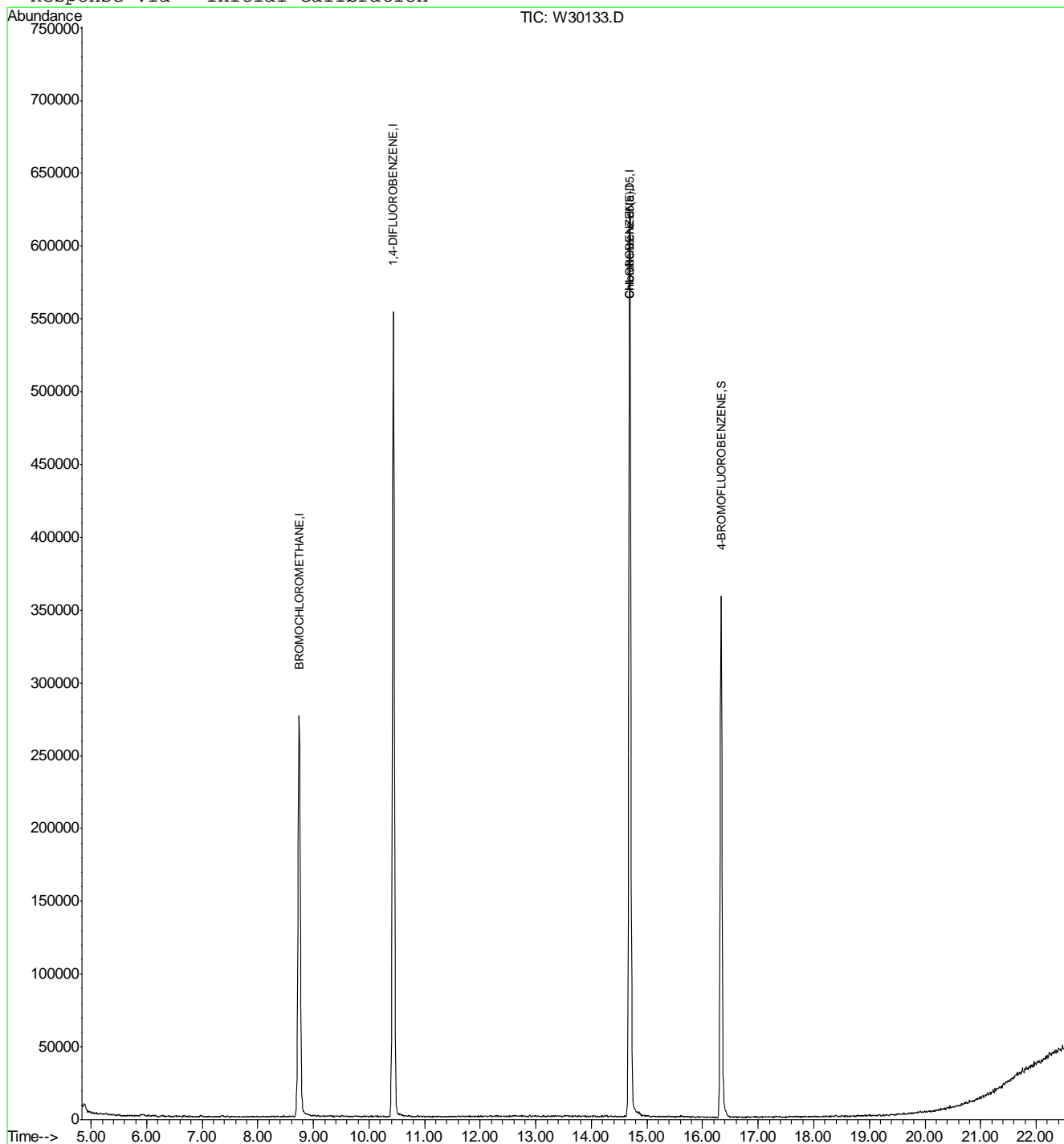
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30133.D
Acq On : 11 Feb 2011 2:38 pm
Sample : SCC(A791)
Misc : MS8082,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:07 2011

Vial: 9
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Initial Calibration



W30133.D MW1222.M

Mon Feb 14 10:28:04 2011

MSW

Page 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29765.D
Acq On : 14 Feb 2011 12:55 pm
Operator : YOUMINH
Sample : SCC(A398)
Misc : MS8184,V2W1256,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 15 10:13:56 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.313	128	213110	10.00	PPBV	# 0.00
44) 1,4-DIFLUOROBENZENE	9.154	114	978109	10.00	PPBV	-0.01
61) CHLOROBENZENE-D5	13.275	82	418851	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.275	82	449806	10.00	PPBV	# 0.00

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.763	95	183290	4.18	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	83.60%

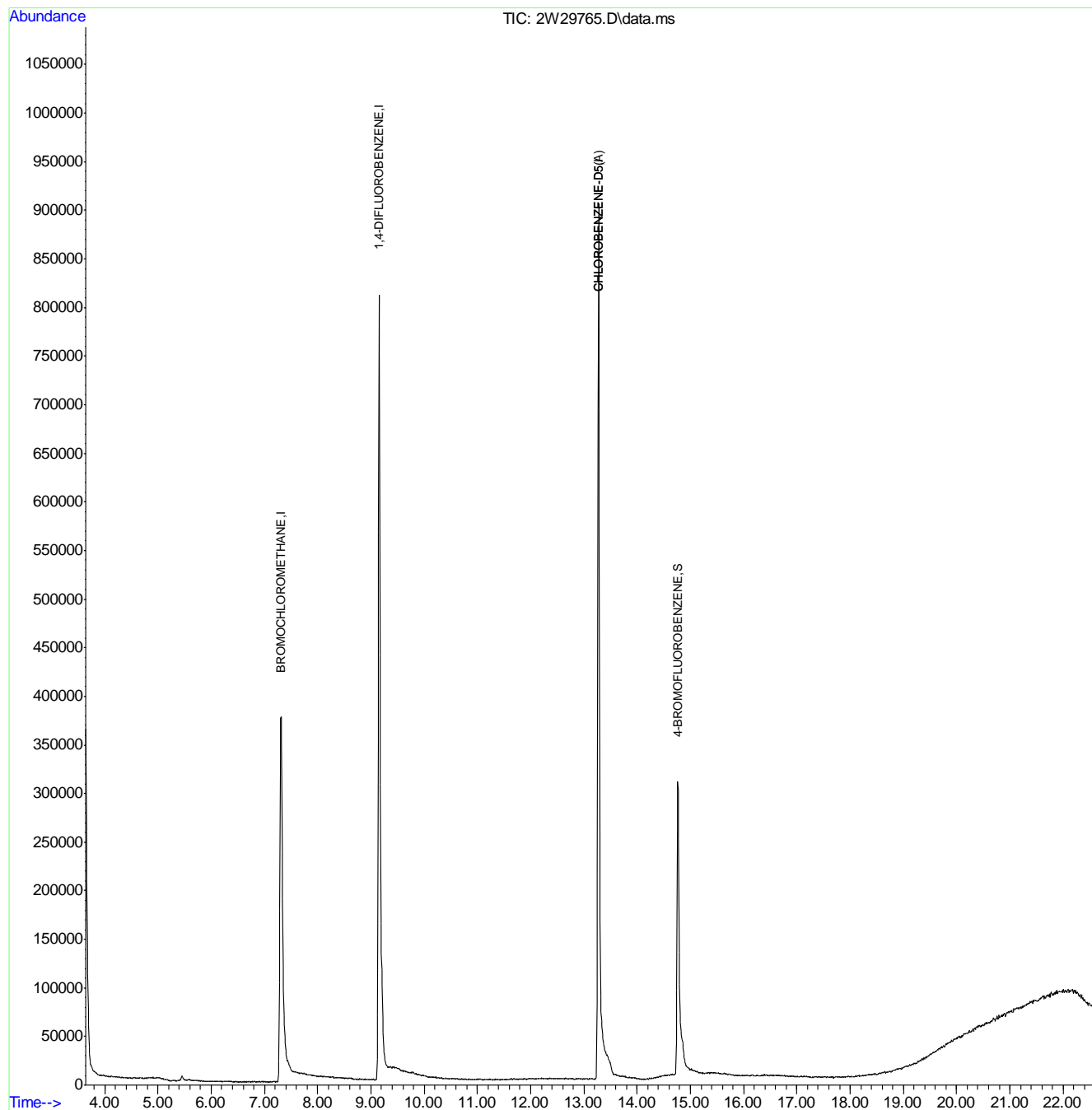
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29765.D
Acq On : 14 Feb 2011 12:55 pm
Operator : YOUMINH
Sample : SCC(A398)
Misc : MS8184,V2W1256,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 15 10:13:56 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

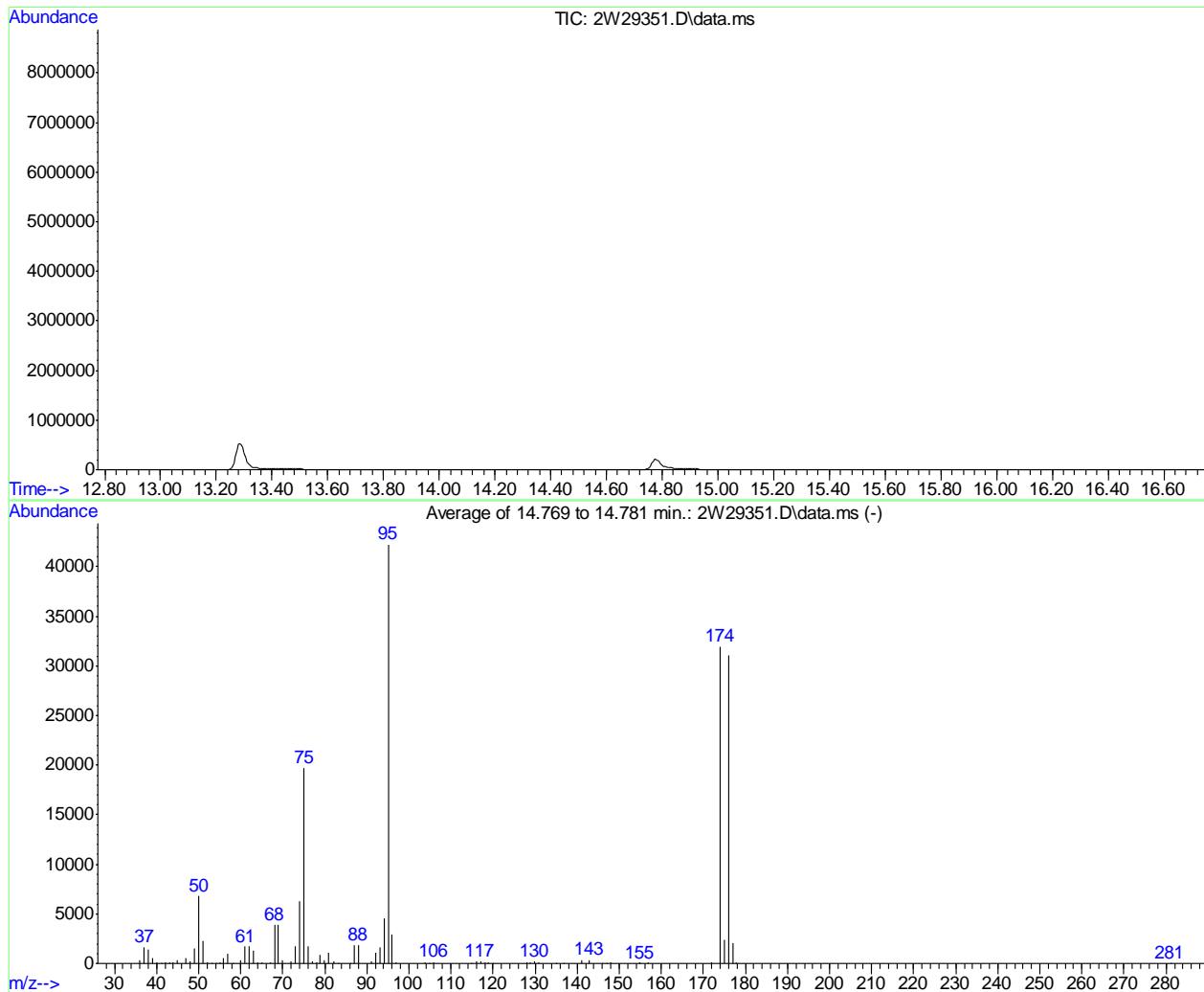


BFB

Data File : C:\msdchem\1\DATA\2w\2W29351.D
Acq On : 21 Jan 2011 8:52 am
Sample : BFB
Misc : MS2686,V2W1240,,,,,1
MS Integration Params: rteint.p

Vial: 5
Operator: YOUMINH
Inst : MS2W
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M2W1240.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um



AutoFind: Scans 1826, 1827, 1828; Background Corrected with Scan 1817

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.1	6816	PASS
75	95	30	66	46.6	19712	PASS
95	95	100	100	100.0	42267	PASS
96	95	5	9	6.9	2906	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	75.6	31965	PASS
175	174	4	9	7.3	2344	PASS
176	174	93	101	97.3	31101	PASS
177	176	5	9	6.6	2064	PASS

2W29351.D M2W1240.M

Tue Jan 25 15:14:52 2011 VOA-CLN-02

Average of 14.769 to 14.781 min.: 2W29351.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	329	47.95	230	60.00	351	73.00	1688
37.05	1660	49.05	1500	61.00	1688	74.05	6243
38.10	1364	50.05	6816	62.00	1710	75.10	19712
39.05	573	51.10	2285	63.05	1271	76.00	1688
40.00	66	52.00	115	64.05	139	77.00	273
41.05	6	53.10	17	65.05	69	78.00	158
42.05	93	54.05	8	67.10	122	78.90	903
43.15	75	55.00	93	68.00	3855	79.95	316
44.00	113	56.00	566	69.00	3889	80.95	1074
45.00	277	57.00	987	70.00	300	82.05	224
47.05	552	58.10	23	72.00	212	83.10	34

Average of 14.769 to 14.781 min.: 2W29351.D\data.ms

BFB

Modified:subtracted

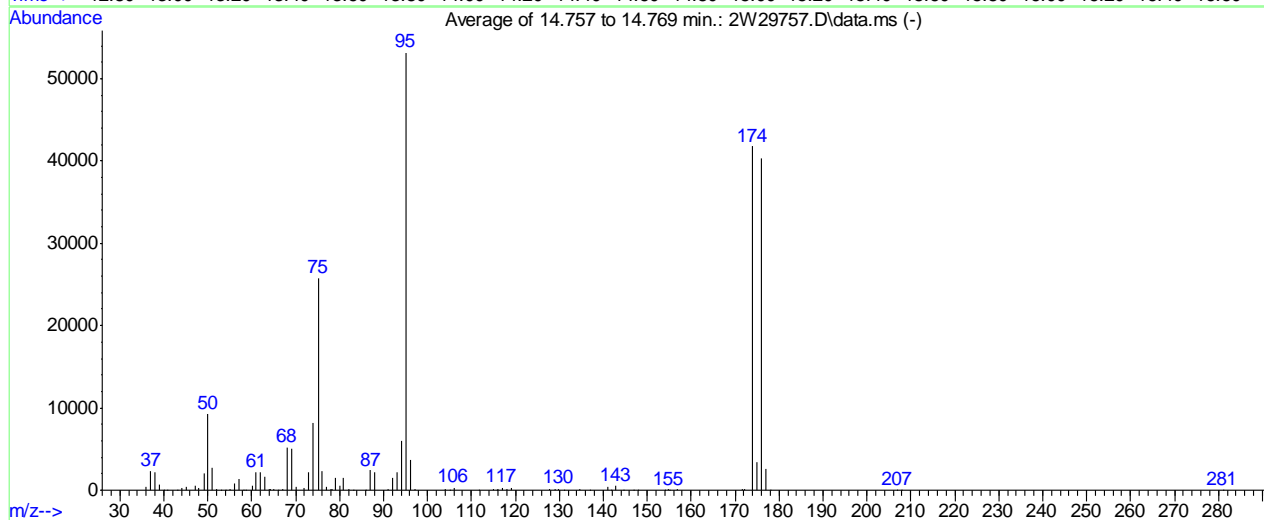
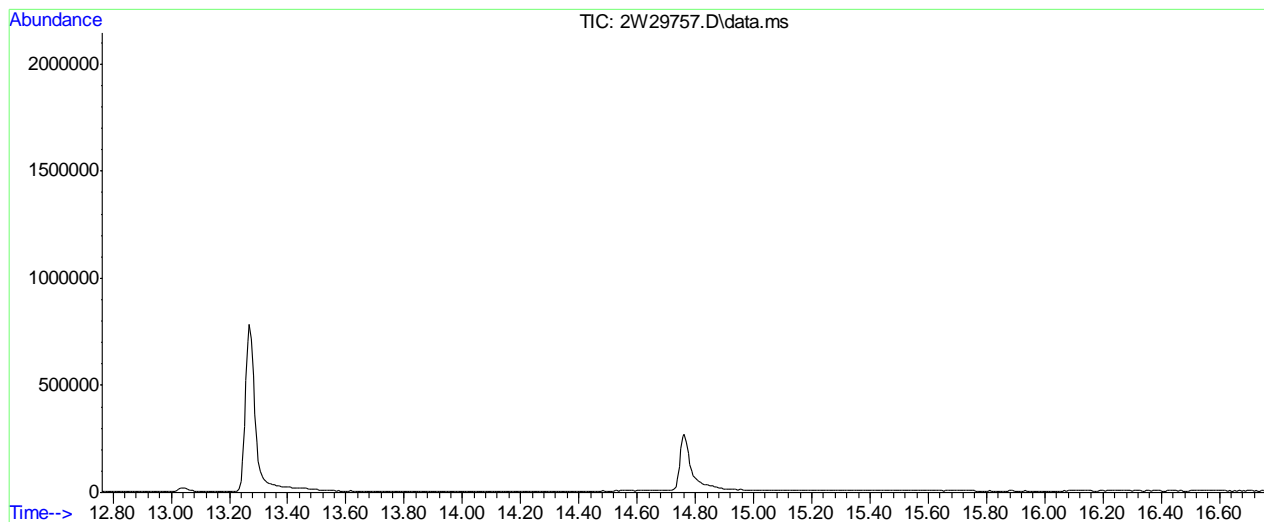
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.95	39	104.90	51	130.95	60	171.95	72
87.00	1865	105.90	158	134.90	39	174.00	31965
88.00	1884	114.90	36	136.85	38	175.00	2344
91.00	184	116.00	182	140.95	298	176.00	31101
92.00	1110	117.00	217	142.95	341	177.00	2064
93.00	1611	118.00	150	145.90	37	177.85	65
94.05	4550	119.00	143	147.00	17	281.05	16
95.10	42267	120.00	17	147.85	73		
96.05	2906	127.95	150	154.80	27		
97.00	112	128.95	67	154.95	72		
103.95	143	129.90	168	156.95	65		

BFB

Data File : C:\msdchem\1\DATA\2w\v2w1256\2W29757.D
Acq On : 14 Feb 2011 6:55 am
Sample : BFB
Misc : MS8244,V2W1256,400,,,1
MS Integration Params: rteint.p

Vial: 5
Operator: YOUMINH
Inst : MS2W
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M2W1240.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um



AutoFind: Scans 1824, 1825, 1826; Background Corrected with Scan 1814

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	9229	PASS
75	95	30	66	48.4	25740	PASS
95	95	100	100	100.0	53179	PASS
96	95	5	9	6.8	3629	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.6	41789	PASS
175	174	4	9	8.1	3378	PASS
176	174	93	101	96.4	40280	PASS
177	176	5	9	6.6	2655	PASS

Average of 14.757 to 14.769 min.: 2W29757.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	453	49.10	2004	60.05	510	70.00	431
37.05	2337	50.00	9229	61.05	2246	72.00	235
38.05	2137	51.10	2769	62.05	2222	73.00	2136
39.00	711	52.00	188	63.00	1683	74.05	8209
39.95	22	53.15	55	63.95	163	75.10	25740
40.90	29	54.00	34	64.20	83	76.00	2262
43.05	63	54.95	114	64.95	133	76.95	366
44.00	264	56.00	767	66.10	18	78.00	127
45.05	453	57.10	1377	67.05	156	78.20	95
47.05	604	58.25	50	68.00	5181	79.00	1560
48.00	326	58.65	53	69.00	5018	80.00	540

Average of 14.757 to 14.769 min.: 2W29757.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.95	1474	96.05	3629	119.00	212	146.80	18
82.05	155	97.10	115	127.90	185	148.00	66
83.05	56	103.95	202	128.95	84	154.10	18
86.00	69	105.00	73	129.90	188	154.90	100
87.00	2396	106.00	288	131.10	25	155.10	35
88.00	2229	111.80	22	134.75	97	156.95	91
91.00	192	115.10	90	136.90	63	171.75	96
92.00	1509	115.90	62	140.95	439	172.15	109
93.00	2175	116.05	149	141.80	46	174.00	41789
94.05	5947	117.05	299	142.95	507	175.05	3378
95.05	53179	118.05	209	144.70	17	176.00	40280

Average of 14.757 to 14.769 min.: 2W29757.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	2655						
177.95	59						
206.95	56						
207.80	19						
281.05	60						

BFB

Data File : C:\MSDCHEM\1\DATA\3W20777.D

Acq On : 15 Feb 2011 5:04 pm

Sample : BFB

Misc : MS7827,V3W821,,,,,1

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)

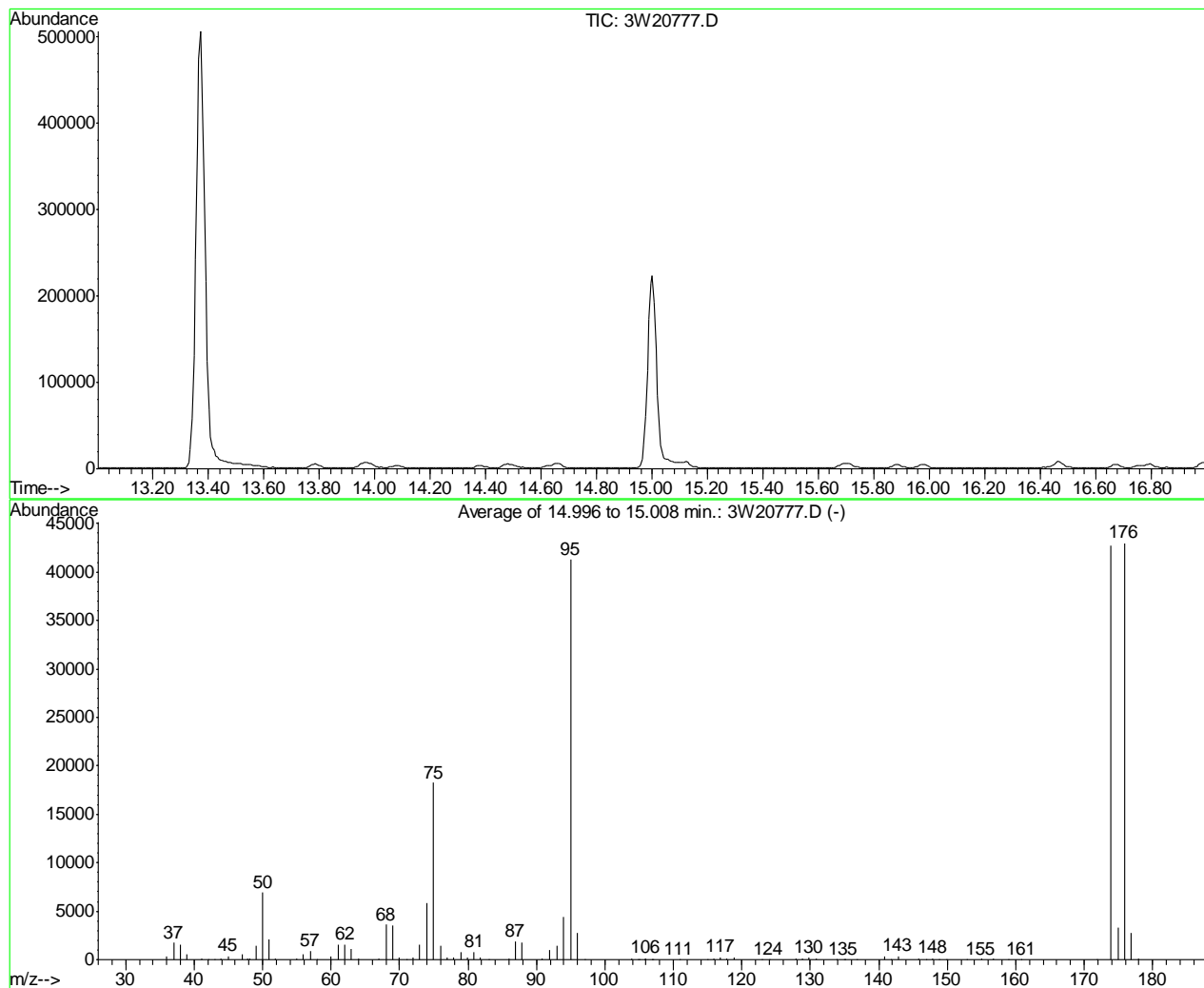
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

Vial: 5

Operator: yunxiac

Inst : MS3W

Multiplr: 1.00



AutoFind: Scans 1778, 1779, 1780; Background Corrected with Scan 1768

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.7	6895	PASS
75	95	30	66	44.2	18240	PASS
95	95	100	100	100.0	41264	PASS
96	95	5	9	6.7	2754	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	103.6	42746	PASS
175	174	4	9	7.6	3255	PASS
176	174	93	101	100.6	42989	PASS
177	176	5	9	6.3	2710	PASS

Average of 14.996 to 15.008 min.: 3W20777.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	321	48.05	138	62.00	1577	75.00	18240
37.00	1752	49.00	1442	63.00	1137	76.00	1427
38.00	1572	50.00	6895	64.05	143	76.95	253
39.00	585	51.00	2120	67.00	84	77.95	185
41.05	81	51.90	102	68.00	3585	78.90	738
42.00	22	54.95	63	69.00	3513	79.95	233
43.00	37	55.95	547	69.95	266	80.90	820
43.95	150	57.00	893	71.10	26	81.85	218
45.00	340	57.95	46	71.95	216	83.00	18
47.00	584	59.95	374	72.95	1563	86.00	83
47.80	80	61.00	1513	74.00	5820	86.90	1913

Average of 14.996 to 15.008 min.: 3W20777.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.90	1750	105.70	30	124.00	22	142.85	372
90.85	134	105.95	145	127.85	137	145.85	71
91.95	1007	106.80	20	128.85	67	146.90	19
93.00	1448	107.10	22	129.85	178	147.90	116
94.00	4392	110.90	18	130.85	68	148.80	24
95.00	41264	114.95	57	133.90	17	149.95	53
96.00	2754	115.95	121	134.85	57	152.80	18
97.00	54	116.85	244	135.10	23	154.95	111
103.85	142	117.85	124	136.75	42	156.80	74
104.80	19	118.85	197	140.85	311	158.90	44
105.05	38	122.90	16	141.75	44	160.80	19

Average of 14.996 to 15.008 min.: 3W20777.D

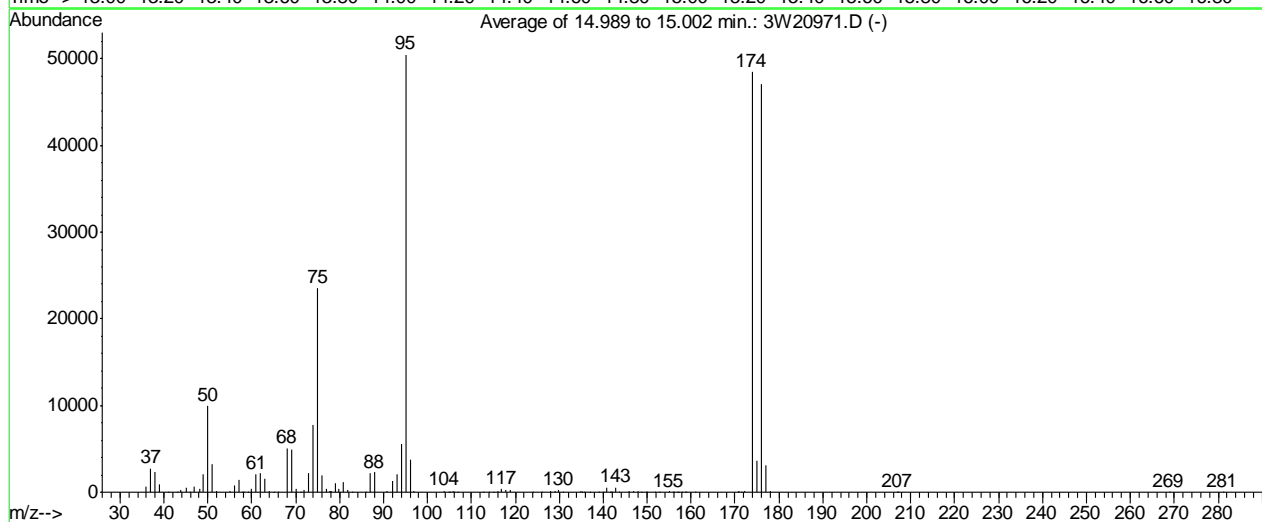
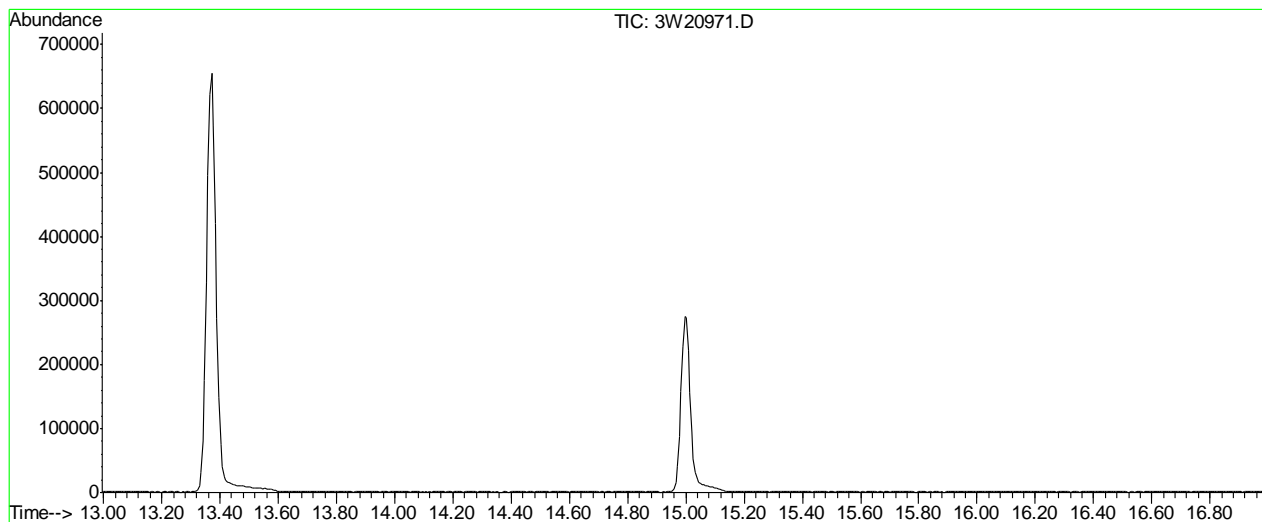
BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.90	18						
173.90	42746						
174.95	3255						
175.90	42989						
176.90	2710						
177.90	81						

BFB

Data File : C:\MSDCHEM\1\DATA\3W20971.D Vial: 5
Acq On : 24 Feb 2011 6:45 am Operator: yunxiac
Sample : BFB Inst : MS3W
Misc : MS8082,V3W828,400,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 1777, 1778, 1779; Background Corrected with Scan 1767

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.6	9921	PASS
75	95	30	66	46.7	23568	PASS
95	95	100	100	100.0	50496	PASS
96	95	5	9	7.3	3695	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	96.0	48472	PASS
175	174	4	9	7.6	3660	PASS
176	174	93	101	97.0	47037	PASS
177	176	5	9	6.6	3119	PASS

Average of 14.989 to 15.002 min.: 3W20971.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	588	49.00	2091	61.00	2137	73.00	2145
37.00	2763	50.00	9921	62.00	2211	74.00	7782
38.00	2329	51.00	3230	63.00	1574	75.00	23568
39.00	953	51.95	127	64.05	197	76.00	1974
41.10	18	55.05	159	64.90	18	76.95	351
43.00	57	55.95	774	66.00	16	77.80	73
43.90	254	57.00	1388	68.00	5046	77.90	100
45.00	475	57.90	34	68.95	4956	78.05	159
45.85	36	58.10	32	70.00	407	78.90	1086
46.95	660	59.05	38	71.00	16	79.85	402
48.05	350	59.95	412	71.95	300	80.90	1173

Average of 14.989 to 15.002 min.: 3W20971.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.85	296	97.00	137	116.85	363	135.60	18
82.90	17	103.90	188	117.90	223	136.85	64
85.90	55	104.80	22	118.85	272	138.90	16
86.90	2191	104.95	40	124.00	17	140.00	27
87.90	2287	105.80	99	126.00	18	140.90	502
90.85	179	106.00	65	127.90	166	141.60	18
91.95	1279	106.90	47	128.95	111	141.90	48
93.00	2031	112.70	18	129.90	215	142.10	26
94.00	5584	114.10	21	130.85	46	142.85	524
95.00	50496	114.90	41	134.85	119	143.60	19
96.00	3695	115.90	167	135.10	18	145.85	83

Average of 14.989 to 15.002 min.: 3W20971.D

BFB

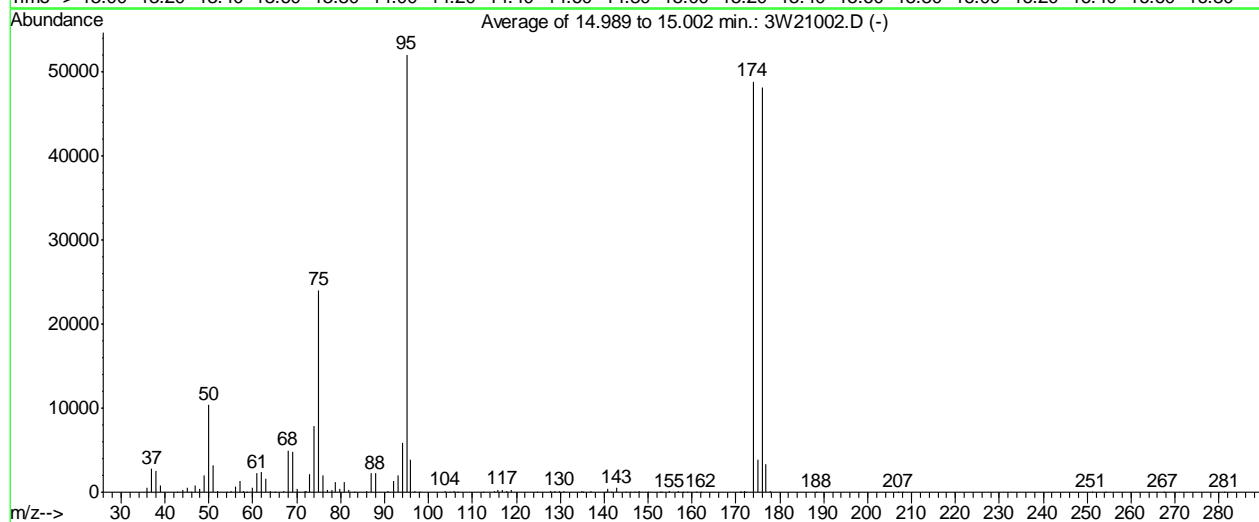
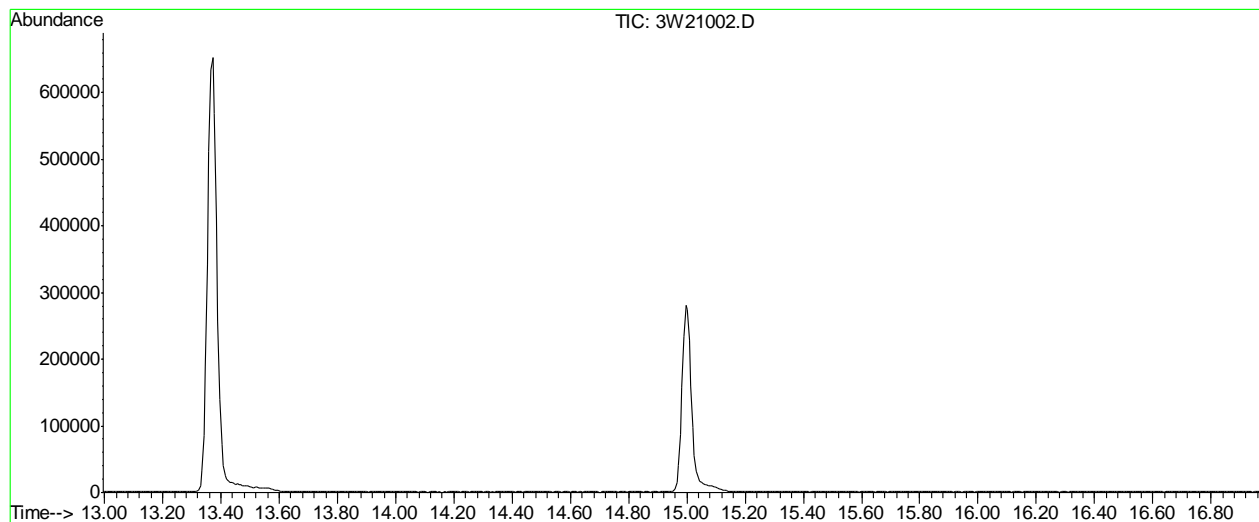
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
146.90	88	157.00	47	175.90	47037		
147.90	143	157.90	17	176.90	3119		
148.80	18	158.75	50	178.05	117		
149.80	58	159.00	53	206.90	27		
150.00	20	160.90	52	207.05	35		
151.75	39	170.60	32	268.80	16		
152.90	38	170.90	84	281.10	29		
154.95	110	171.30	16				
155.90	17	172.05	88				
156.10	44	173.90	48472				
156.80	67	174.90	3660				

BFB

Data File : C:\MSDCHEM\1\DATA\3W21002.D
Acq On : 25 Feb 2011 6:16 am
Sample : BFB
Misc : MS8082,V3W829,100,,,1
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

Vial: 5
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00



AutoFind: Scans 1777, 1778, 1779; Background Corrected with Scan 1768

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.9	10379	PASS
75	95	30	66	46.2	24069	PASS
95	95	100	100	100.0	52072	PASS
96	95	5	9	7.3	3822	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.7	48813	PASS
175	174	4	9	7.9	3841	PASS
176	174	93	101	98.6	48133	PASS
177	176	5	9	7.0	3356	PASS

Average of 14.989 to 15.002 min.: 3W21002.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	571	50.00	10379	61.95	2345	74.00	7880
37.00	2801	51.00	3204	62.95	1638	75.00	24069
38.00	2508	51.95	142	63.85	150	76.00	2001
39.00	867	53.90	18	65.00	59	76.95	337
42.90	59	54.95	126	66.95	167	77.95	224
43.95	222	55.95	695	68.00	4956	78.90	1184
45.00	540	57.00	1286	69.00	4789	79.90	390
45.90	24	57.85	75	70.00	424	80.85	1147
46.95	739	58.70	21	71.90	141	81.85	321
48.00	358	59.95	496	72.10	102	83.20	18
49.00	2054	60.95	2318	72.95	2162	85.95	74

Average of 14.989 to 15.002 min.: 3W21002.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.90	2232	104.85	39	128.90	98	145.90	49
87.90	2248	105.90	133	129.90	175	146.95	46
90.85	176	106.70	39	130.85	81	147.85	99
92.00	1313	112.50	16	134.90	103	149.90	21
92.95	2006	114.90	98	135.30	19	152.85	53
94.00	5859	115.85	210	136.90	86	153.10	22
95.00	52072	116.90	314	140.20	27	154.95	122
96.00	3822	117.95	201	140.85	384	156.85	111
97.00	121	118.90	276	141.60	17	157.90	17
97.90	16	124.70	21	142.90	501	159.00	48
103.85	183	127.85	152	144.85	52	160.95	62

Average of 14.989 to 15.002 min.: 3W21002.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
162.00	18	206.95	37				
170.80	19	207.90	17				
171.10	22	251.00	19				
171.90	91	254.10	19				
172.10	44	267.40	16				
173.90	48813	281.20	26				
174.90	3841						
175.90	48133						
176.90	3356						
177.90	100						
188.30	22						

BFB

Data File : C:\MSDCHEM\1\DATA\W29765.D

Acq On : 19 Jan 2011 5:08 pm

Sample : BFB

Misc : MS6862,VW1222,,,,,1

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)

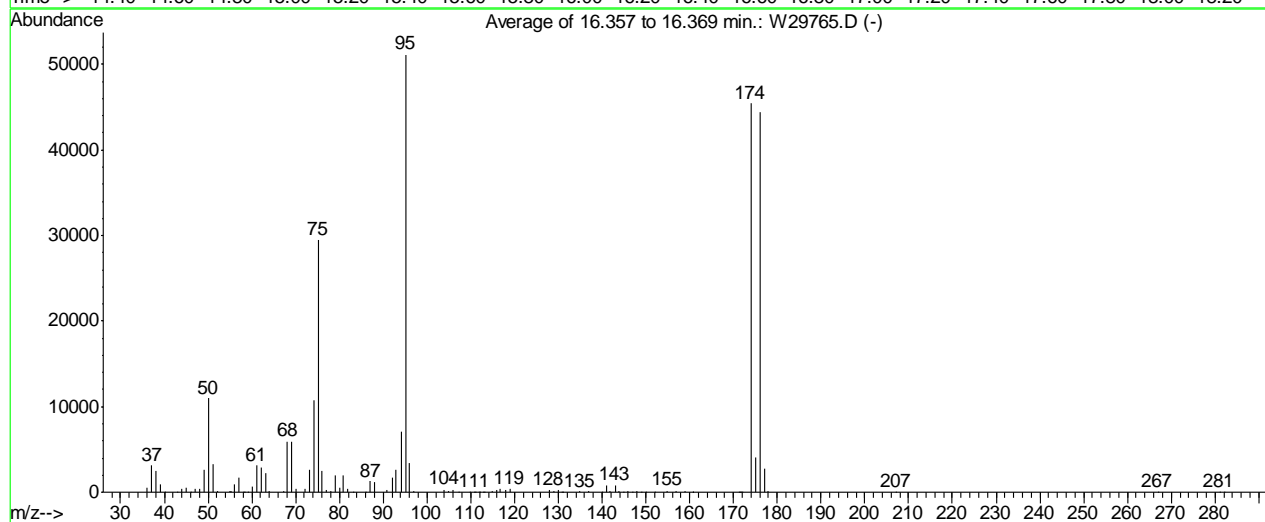
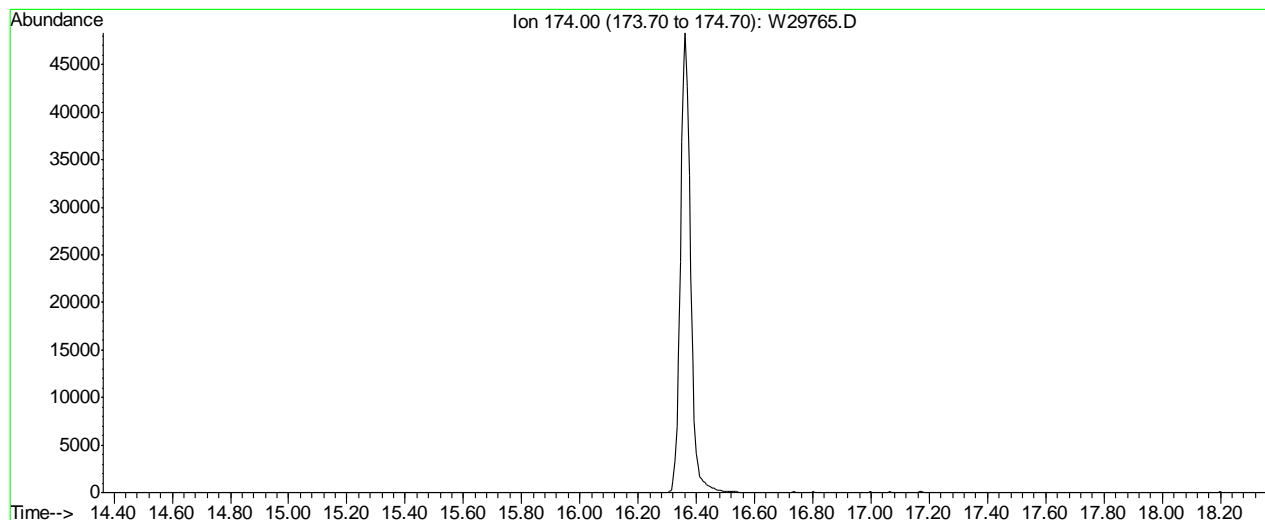
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um

Vial: 3

Operator: YOUMINH

Inst : MSW

Multiplr: 1.00



AutoFind: Scans 1891, 1892, 1893; Background Corrected with Scan 1880

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.5	10988	PASS
75	95	30	66	57.6	29461	PASS
95	95	100	100	100.0	51162	PASS
96	95	5	9	6.6	3398	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.8	45442	PASS
175	174	4	9	8.9	4033	PASS
176	174	93	101	97.8	44442	PASS
177	176	5	9	6.1	2730	PASS

W29765.D MW1222.M

Mon Jan 24 09:29:20 2011 MSW

Average of 16.357 to 16.369 min.: W29765.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	590	49.05	2650	60.05	671	74.10	10720
37.10	3139	50.10	10988	61.05	3084	75.10	29461
38.10	2541	51.10	3288	62.10	2840	76.05	2551
39.10	920	52.05	152	63.10	2176	77.05	226
40.00	68	55.00	97	64.05	169	77.95	150
42.90	20	55.20	75	67.15	180	78.95	1974
44.00	386	56.05	981	68.05	5935	80.00	558
45.05	520	57.10	1708	69.05	5894	80.95	2015
46.00	34	58.00	52	70.05	453	81.95	417
47.10	343	58.20	16	72.05	396	83.20	19
48.05	431	59.20	21	73.05	2623	85.95	42

Average of 16.357 to 16.369 min.: W29765.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	1274	105.95	269	116.80	386	140.95	779
88.00	1232	107.10	24	118.00	259	141.85	105
90.95	255	109.90	41	118.95	388	142.95	795
92.00	1765	110.70	19	127.90	261	143.90	70
93.00	2574	111.00	32	128.90	94	144.85	36
94.05	7112	111.80	17	129.90	233	145.85	95
95.10	51162	112.00	21	130.70	16	146.95	59
96.05	3398	112.85	49	131.00	53	147.95	165
96.95	93	113.10	20	134.95	113	149.00	23
103.95	307	114.90	76	136.90	104	149.90	17
104.90	89	115.90	263	139.90	38	151.90	35

Average of 16.357 to 16.369 min.: W29765.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.95	160	176.00	44442				
156.95	128	177.00	2730				
158.95	91	177.95	107				
160.70	23	207.10	18				
160.85	46	267.00	22				
171.20	18	281.00	35				
171.50	21	282.10	16				
171.80	42						
172.00	31						
174.00	45442						
175.00	4033						

BFB

Data File : C:\MSDCHEM\1\DATA\W30125.D

Acq On : 11 Feb 2011 6:09 am

Sample : BFB

Misc : MS7890,VW1236,,,,,1

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)

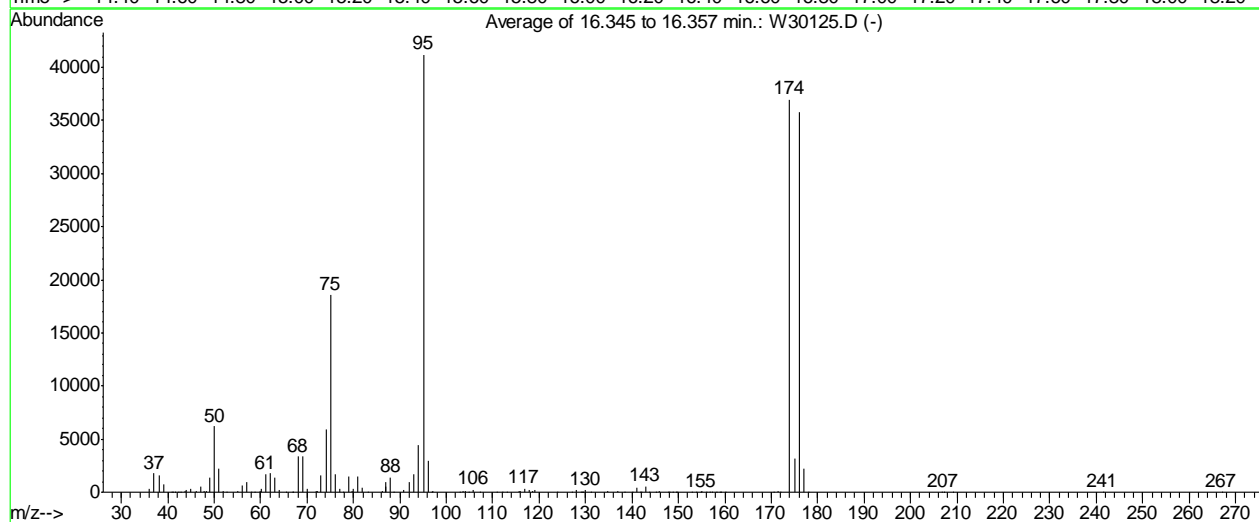
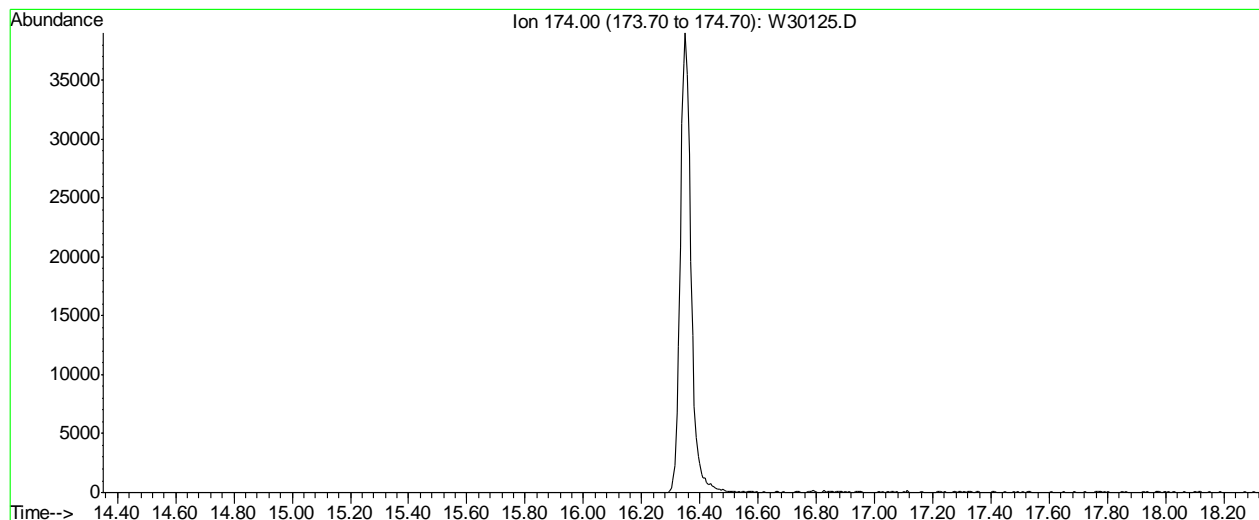
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um

Vial: 5

Operator: YOUMINH

Inst : MSW

Multiplr: 1.00



AutoFind: Scans 1889, 1890, 1891; Background Corrected with Scan 1878

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.1	6206	PASS
75	95	30	66	45.0	18570	PASS
95	95	100	100	100.0	41224	PASS
96	95	5	9	7.1	2942	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.7	36960	PASS
175	174	4	9	8.6	3165	PASS
176	174	93	101	96.8	35760	PASS
177	176	5	9	6.4	2272	PASS

W30125.D MW1222.M

Mon Feb 14 10:29:57 2011 MSW

Average of 16.345 to 16.357 min.: W30125.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	318	45.00	340	56.05	689	66.80	38
37.05	1762	46.10	72	57.00	981	66.95	53
38.05	1626	47.10	581	58.00	51	68.00	3363
39.05	721	47.90	87	58.80	21	69.00	3356
40.80	18	48.20	100	59.80	95	70.05	314
41.10	21	49.05	1371	60.05	347	72.00	132
41.50	17	50.10	6206	61.00	1711	72.20	66
42.20	27	51.05	2171	62.00	1797	73.05	1598
42.80	28	51.95	124	63.00	1382	74.05	5892
43.80	104	52.60	20	64.00	163	75.05	18570
44.00	171	55.05	102	65.40	19	76.05	1666

Average of 16.345 to 16.357 min.: W30125.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.10	286	88.00	1381	103.70	91	117.85	209
77.70	21	88.70	24	104.00	84	118.70	74
78.95	1523	90.90	240	104.90	30	118.95	167
79.80	160	91.95	1003	105.80	237	123.90	24
80.05	311	93.00	1668	107.20	21	127.10	22
80.90	1474	94.00	4484	110.85	52	127.95	176
81.90	411	95.10	41224	112.10	19	128.90	22
83.00	22	96.05	2942	112.95	49	129.10	54
86.20	75	96.90	50	115.70	108	129.50	29
86.90	499	97.15	62	116.00	106	129.95	191
87.05	976	103.00	25	116.85	322	131.10	22

Average of 16.345 to 16.357 min.: W30125.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.80	102	147.70	43	157.10	44	177.00	2272
136.85	68	148.10	38	158.20	18	178.00	34
138.40	22	148.70	17	158.80	44	206.70	16
140.10	30	149.60	21	159.10	18	207.20	23
140.95	421	149.80	30	160.20	21	209.20	17
141.65	41	152.85	52	170.50	18	241.50	16
142.10	38	153.80	21	171.55	85	267.00	26
142.90	583	154.70	32	171.90	33		
143.80	17	155.00	89	174.00	36960		
145.20	38	155.95	56	175.05	3165		
145.90	74	156.80	32	176.00	35760		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29353.d
 Acq On : 21 Jan 2011 10:08 am
 Operator : YOUMINH
 Sample : IC1240-0.2
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 09:59:19 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Mon Jan 24 10:22:56 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.319	128	122688	10.00	PPBV	# 0.01
44) 1,4-DIFLUOROBENZENE	9.166	114	653411	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	277492	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.287	82	293024	10.00	PPBV	# 0.00

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.775	95	143115	4.92	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	98.40%

Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	3.838	85	16510	0.24	PPBV	98
4) FREON 152A	3.740	65	5408	0.33	PPBV	88
5) CHLORODIFLUOROMETHANE	3.771	67	1919	0.30	PPBV #	42
6) PROPYLENE	3.795	41	4809	0.25	PPBV	97
7) FREON 114	3.996	85	16999	0.22	PPBV	96
8) CHLOROMETHANE	3.935	52	1783	0.25	PPBV #	72
9) VINYL CHLORIDE	4.076	62	5827	0.23	PPBV	97
10) 1,3-BUTADIENE	4.167	54	4216	0.23	PPBV	92
11) n-BUTANE	4.185	43	9222	0.24	PPBV #	94
12) BROMOMETHANE	4.326	94	5279	0.23	PPBV	89
13) CHLOROETHANE	4.441	64	3213	0.23	PPBV	95
14) FREON 123	4.734	83	14188	0.22	PPBV #	73
15) FREON 123A	4.771	117	8115	0.22	PPBV	83
16) TRICHLOROFLUOROMETHANE	4.917	101	14954	0.22	PPBV	97
17) ISOPROPYL ALCOHOL	5.356	45	6788m	0.20	PPBV	
18) ACETONE	5.258	58	2001m	0.23	PPBV	
19) PENTANE	5.161	42	6119	0.24	PPBV	96
20) TVHC as EQUIV PENTANE	5.149	TIC	21999m	0.02	PPBV	
21) IODOMETHANE	5.313	142	12489	0.23	PPBV	98
22) 1,1-DICHLOROETHYLENE	5.362	96	5150m	0.23	PPBV	
23) CARBON DISULFIDE	5.703	76	14502	0.23	PPBV	89
24) ETHANOL	4.752	45	1645	0.23	PPBV	94
25) BROMOETHENE	4.655	106	4685	0.21	PPBV #	91
26) METHYLENE CHLORIDE	5.453	84	4956	0.26	PPBV	88
27) 3-CHLOROPROPENE	5.551	76	1872	0.20	PPBV #	70
28) FREON 113	5.661	151	9073	0.22	PPBV	93
29) TRANS-1,2-DICHLOROETHY...	6.246	96	4767	0.22	PPBV	95
30) TERTIARY BUTYL ALCOHOL	5.837	59	8617m	0.20	PPBV	
31) METHYL TERTIARY BUTYL ...	6.807	73	12669m	0.19	PPBV	
32) TETRAHYDROFURAN	8.642	72	1781m	0.20	PPBV	
33) HEXANE	7.368	57	8298	0.22	PPBV #	82
34) VINYL ACETATE	6.734	86	319m	0.05	PPBV	
35) 1,1-DICHLOROETHANE	6.404	63	9511	0.22	PPBV	96
36) METHYL ETHYL KETONE	7.605	72	992m	0.12	PPBV	
37) cis-1,2-DICHLOROETHYLENE	7.173	96	3722	0.18	PPBV #	78
38) ETHYL ACETATE	7.861	61	1286m	0.24	PPBV	
39) CHLOROFORM	7.435	83	9027	0.20	PPBV	91
40) 2,4-DIMETHYLPENTANE	8.209	57	11643	0.22	PPBV	96
41) 1,1,1-TRICHLOROETHANE	8.374	97	12524	0.23	PPBV	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29353.d
 Acq On : 21 Jan 2011 10:08 am
 Operator : YOUMINH
 Sample : IC1240-0.2
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 09:59:19 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Mon Jan 24 10:22:56 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.953	117	12561	0.22	PPBV	98
43) 1,2-DICHLOROETHANE	8.142	62	4669	0.20	PPBV	99
45) BENZENE	8.819	78	15120	0.21	PPBV	99
46) CYCLOHEXANE	9.069	56	9863	0.22	PPBV #	76
47) 2,3-DIMETHYLPENTANE	9.318	71	4634	0.22	PPBV	88
48) TRICHLOROETHYLENE	9.824	95	5939	0.20	PPBV	94
49) 1,2-DICHLOROPROPANE	9.605	63	4500	0.18	PPBV	96
50) BROMODICHLOROMETHANE	9.776	83	8994	0.19	PPBV	99
51) 2,2,4-TRIMETHYLPENTANE	9.879	57	30378	0.22	PPBV	98
52) 1,4-DIOXANE	11.025	88	1807m	0.20	PPBV	
53) METHYL METHACRYLATE	10.251	69	4226m	0.19	PPBV	
54) HEPTANE	10.142	43	8704	0.21	PPBV	82
55) TVHC as EQUIV HEPTANE	10.136	TIC	33895m	0.04	PPBV	
56) METHYL ISOBUTYL KETONE	11.032	58	3133m	0.18	PPBV	
57) cis-1,3-DICHLOROPROPENE	10.684	75	5169	0.16	PPBV	94
58) TOLUENE	11.611	92	8530	0.19	PPBV	94
59) trans-1,3-DICHLOROPROPENE	11.190	75	2987	0.16	PPBV	85
60) 1,1,2-TRICHLOROETHANE	11.336	83	4002	0.19	PPBV	97
62) 2-HEXANONE	12.287	58	2851m	0.17	PPBV	
63) TETRACHLOROETHYLENE	12.678	164	5396	0.21	PPBV	92
64) DIBROMOCHLOROMETHANE	11.989	129	7351	0.20	PPBV	96
65) 1,2-DIBROMOETHANE	12.226	107	5104	0.20	PPBV	97
66) OCTANE	12.580	43	9227	0.19	PPBV	90
67) 1,1,1,2-TETRACHLOROETHANE	13.312	131	7202	0.22	PPBV #	1
68) CHLOROBENZENE	13.324	112	8783	0.19	PPBV	87
69) ETHYLBENZENE	13.708	91	15683	0.19	PPBV	98
70) m,p-XYLENE	13.891	106	11821	0.38	PPBV #	87
71) o-XYLENE	14.330	106	5845	0.19	PPBV	93
72) STYRENE	14.232	104	5640	0.17	PPBV	90
73) NONANE	14.586	43	7768	0.19	PPBV	90
74) BROMOFORM	13.921	173	6173	0.20	PPBV	94
76) 1,1,2,2-TETRACHLOROETHANE	14.318	83	7164	0.18	PPBV	99
77) ISOPROPYLBENZENE	14.927	105	16718	0.18	PPBV	97
78) 2-CHLOROTOLUENE	15.403	126	3207	0.18	PPBV #	1
79) n-PROPYLBENZENE	15.458	120	3818	0.18	PPBV #	13
80) 4-ETHYLTOLUENE	15.604	105	9852	0.15	PPBV	97
81) 1,3,5-TRIMETHYLBENZENE	15.683	105	9972	0.17	PPBV	94
82) TERT-BUTYLBENZENE	16.079	134	2354	0.16	PPBV	87
83) 1,2,4-TRIMETHYLBENZENE	16.092	105	7625	0.15	PPBV	91
84) m-DICHLOROBENZENE	16.232	146	2908	0.14	PPBV	98
85) BENZYL CHLORIDE	16.232	91	2040	0.08	PPBV	84
86) p-DICHLOROBENZENE	16.299	146	3181m	0.15	PPBV	
87) SEC-BUTYLBENZENE	16.360	134	2589	0.15	PPBV #	95
88) p-ISOPROPYLTOLUENE	16.531	134	1434m	0.10	PPBV	
89) o-DICHLOROBENZENE	16.640	146	2843	0.13	PPBV	95
90) n-BUTYLBENZENE	17.274	134	2178m	0.20	PPBV	
91) HEXACHLOROBUTADIENE	18.792	225	1598m	0.15	PPBV	
92) 1,2,4-TRICHLOROBENZENE	18.609	180	938m	0.15	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29353.d
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 09:59:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Manual Integration Approval Summary

Page 1 of 1

Sample Number: V2W1240-IC1240 **Method:** TO-15
Lab FileID: 2W29353.D **Analyst approved:** 01/25/11 15:48 Li Yuan
Injection Time: 01/21/11 10:08 **Supervisor approved:** 01/28/11 14:12 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		5.26	Poor instrument integration
Isopropyl Alcohol	67-63-0		5.36	Poor instrument integration
Tertiary Butyl Alcohol	75-65-0		5.84	Poor instrument integration
Vinyl Acetate	108-05-4		6.73	Missed peak
Methyl Tert Butyl Ether	1634-04-4		6.81	Poor instrument integration
Methyl ethyl ketone	78-93-3		7.61	Poor instrument integration
Ethyl Acetate	141-78-6		7.86	Poor instrument integration
Tetrahydrofuran	109-99-9		8.64	Poor instrument integration
Methylmethacrylate	80-62-6		10.25	Poor instrument integration
Methyl Isobutyl Ketone	108-10-1		11.03	Poor instrument integration
1,4-Dioxane	123-91-1		11.03	Poor instrument integration
2-Hexanone	591-78-6		12.29	Poor instrument integration
p-Dichlorobenzene	106-46-7		16.30	Poor instrument integration
p-Isopropyltoluene	99-87-6		16.53	Poor instrument integration
n-Butylbenzene	104-51-8		17.27	Poor instrument integration
1,2,4-Trichlorobenzene	120-82-1		18.61	Poor instrument integration
Hexachlorobutadiene	87-68-3		18.79	Poor instrument integration

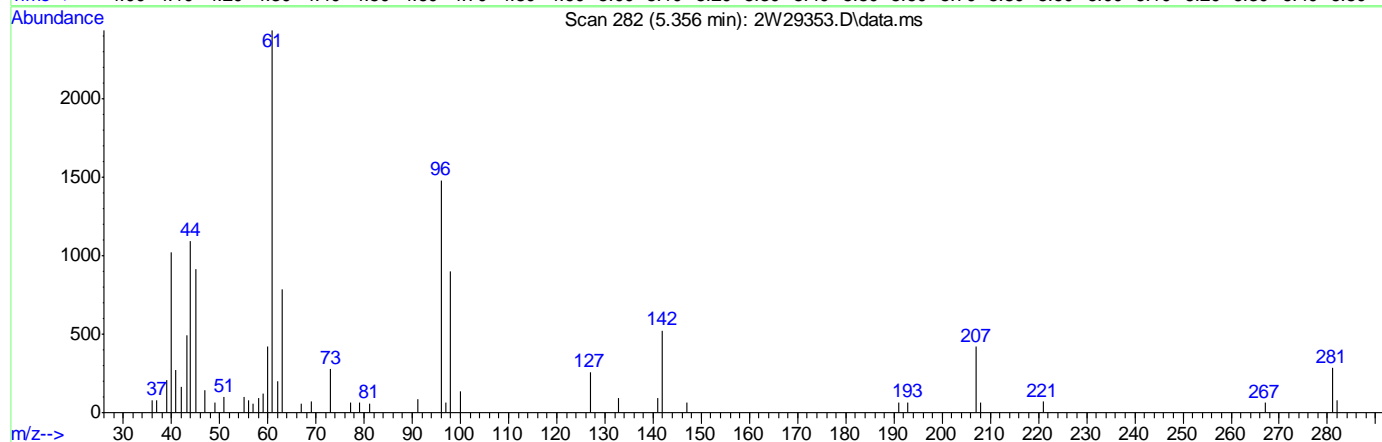
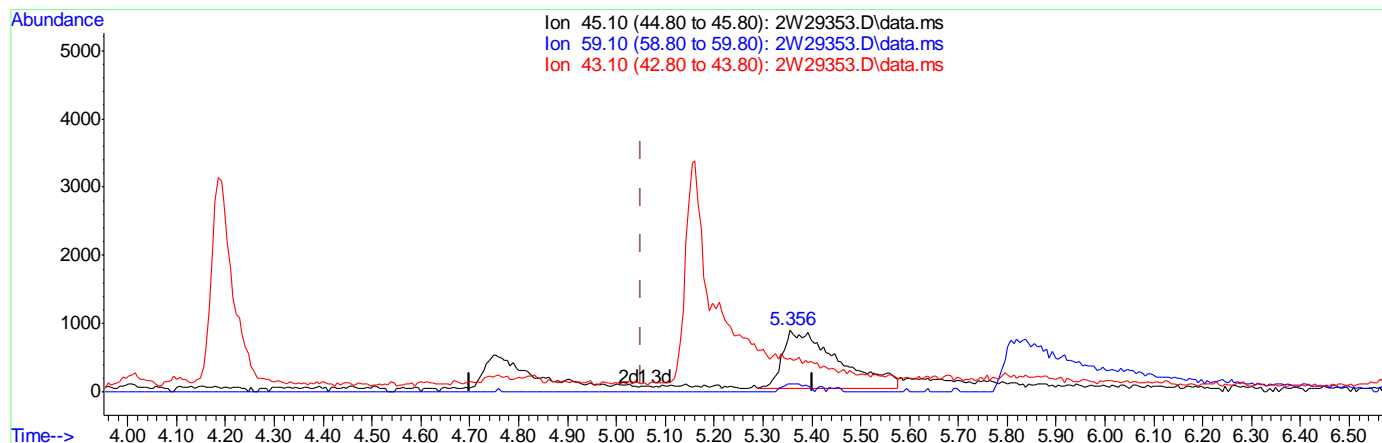
6.7.1.1

6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOU MINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29353.D\data.ms

(17) ISOPROPYL ALCOHOL

5.356min (+0.305) 0.20PPBV m

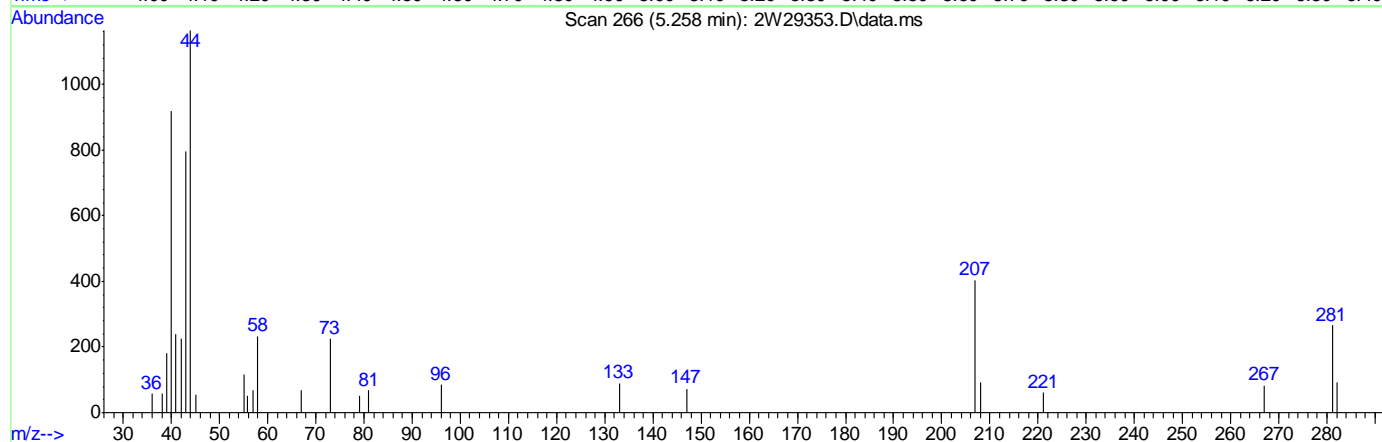
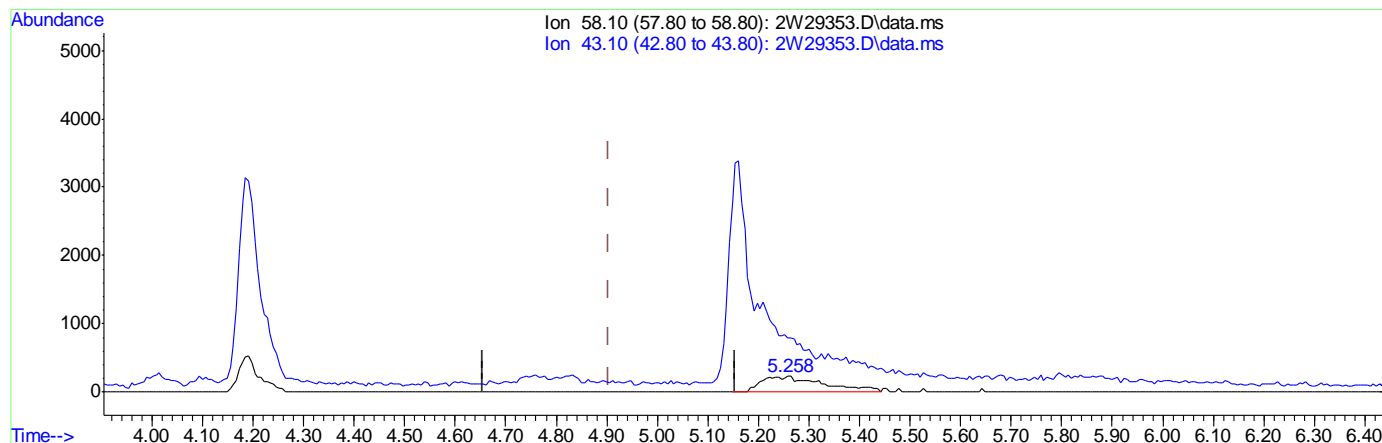
response 6788

Ion	Exp%	Act%
45.10	100	100
59.10	4.40	13.28
43.10	19.80	54.45#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(18) ACETONE

5.258min (+0.353) 0.23PPBV m

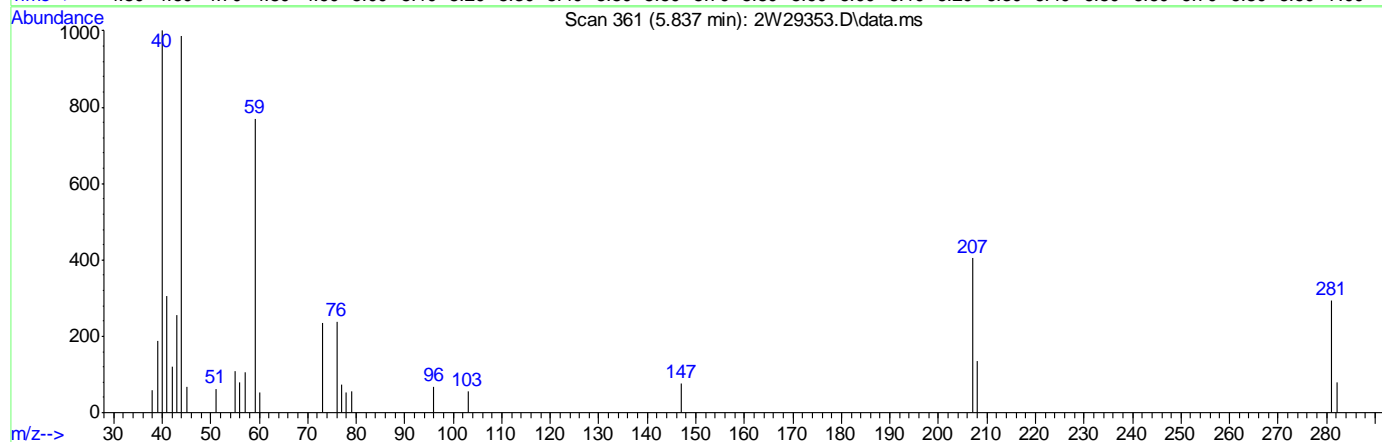
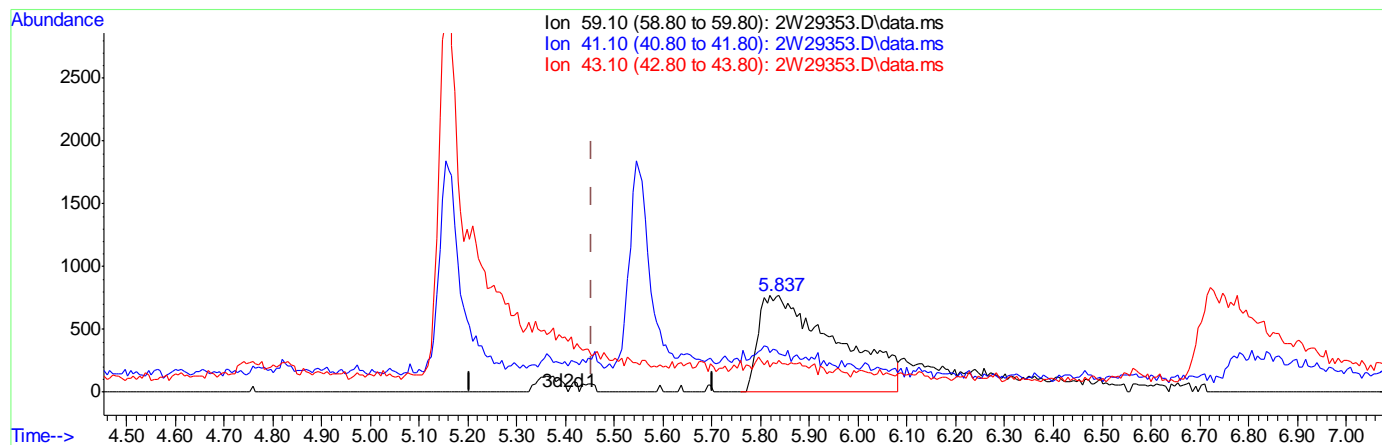
response 2001

Ion	Exp%	Act%
58.10	100	100
43.10	244.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(30) TERTIARY BUTYL ALCOHOL

5.837min (+0.384) 0.20PPBV m

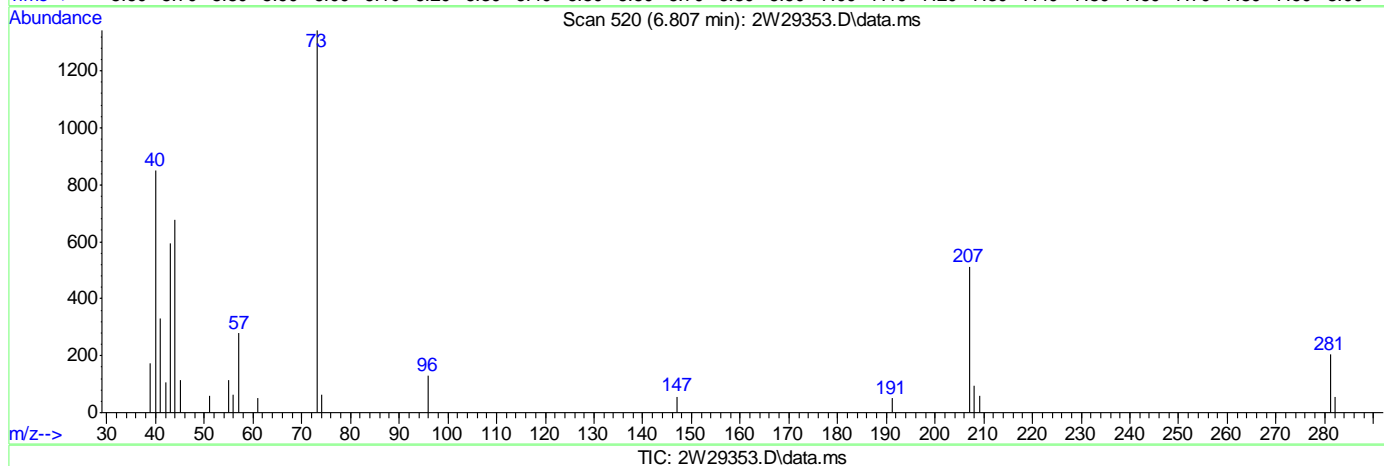
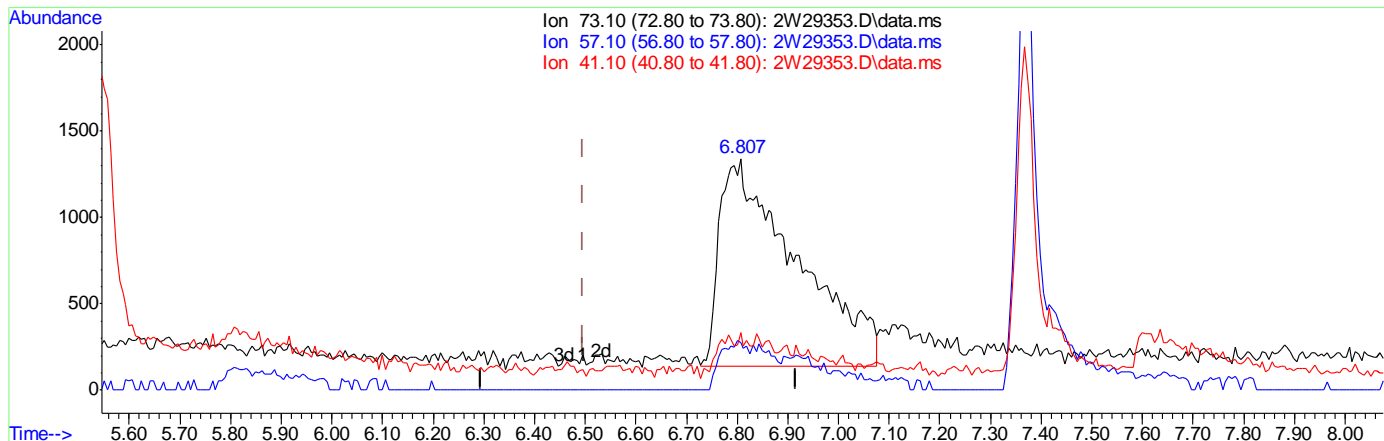
response 8617

Ion	Exp%	Act%
59.10	100	100
41.10	16.50	1.64
43.10	11.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(31) METHYL TERTIARY BUTYL ETHER

6.807min (+0.311) 0.19PPBV m

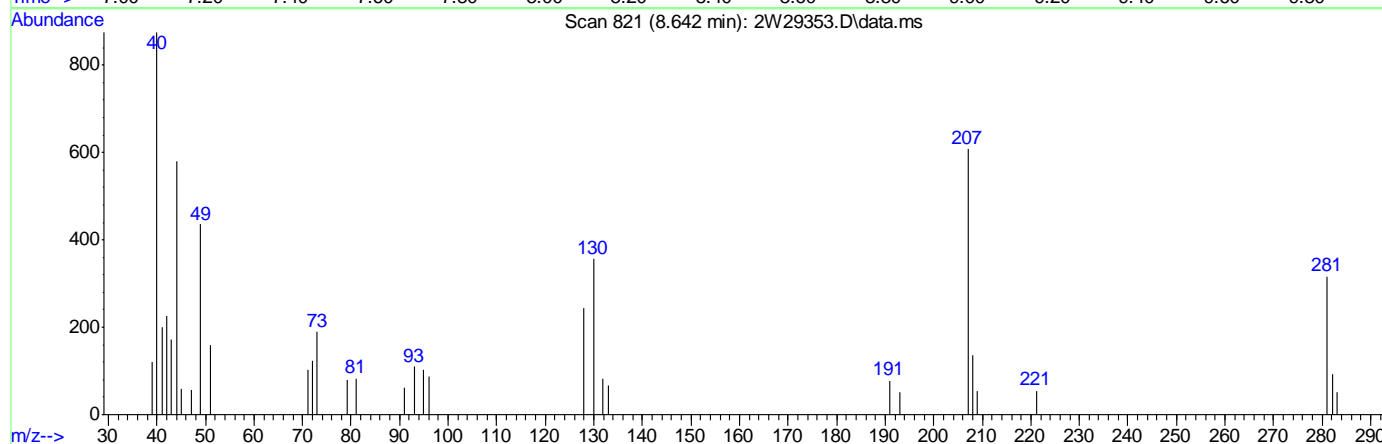
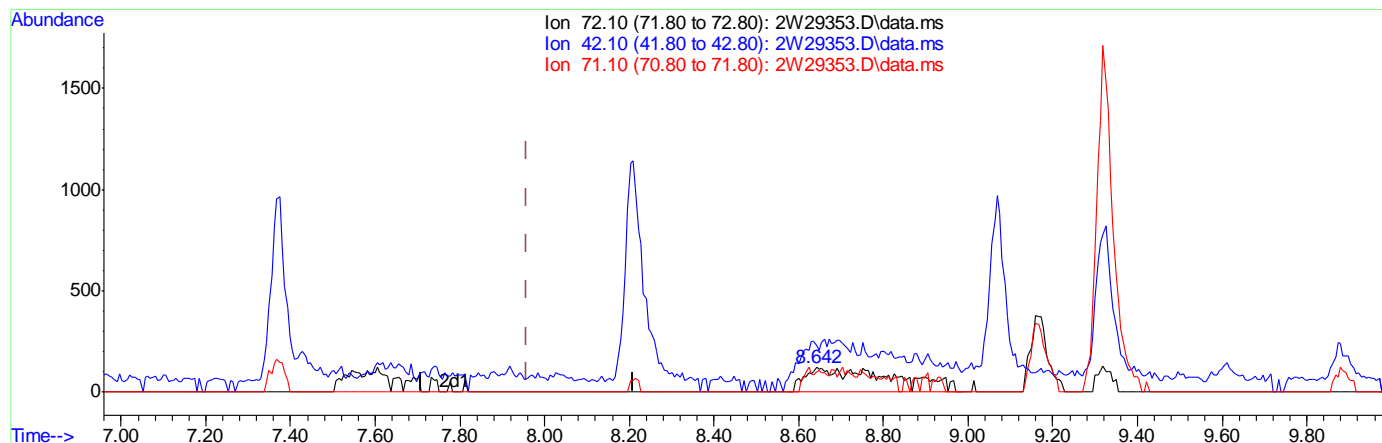
response 12669

Ion	Exp%	Act%
73.10	100	100
57.10	21.30	0.00#
41.10	17.10	0.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29353.D\data.ms

(32) TETRAHYDROFURAN

8.642min (+0.683) 0.20PPBV m

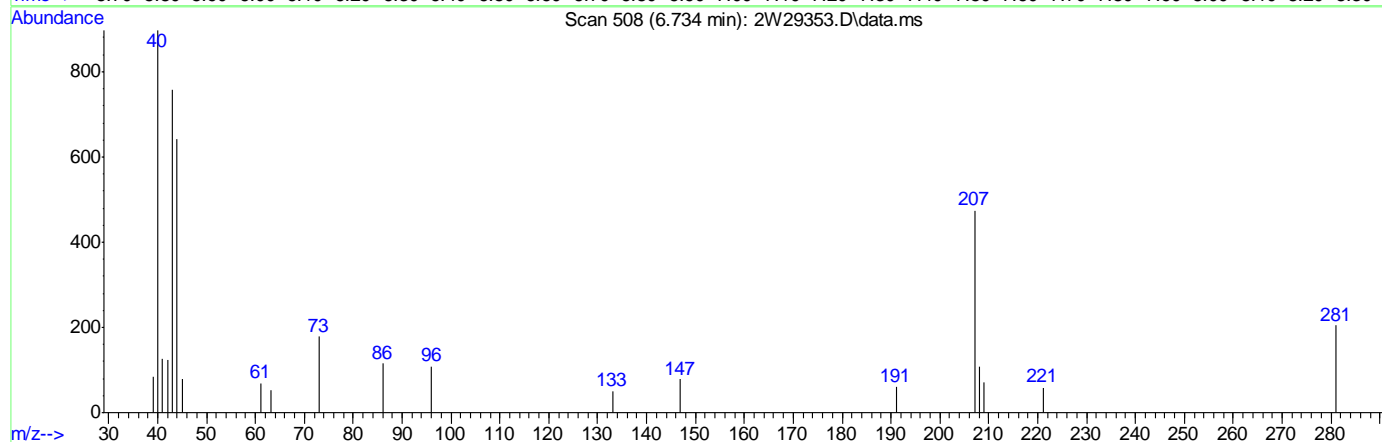
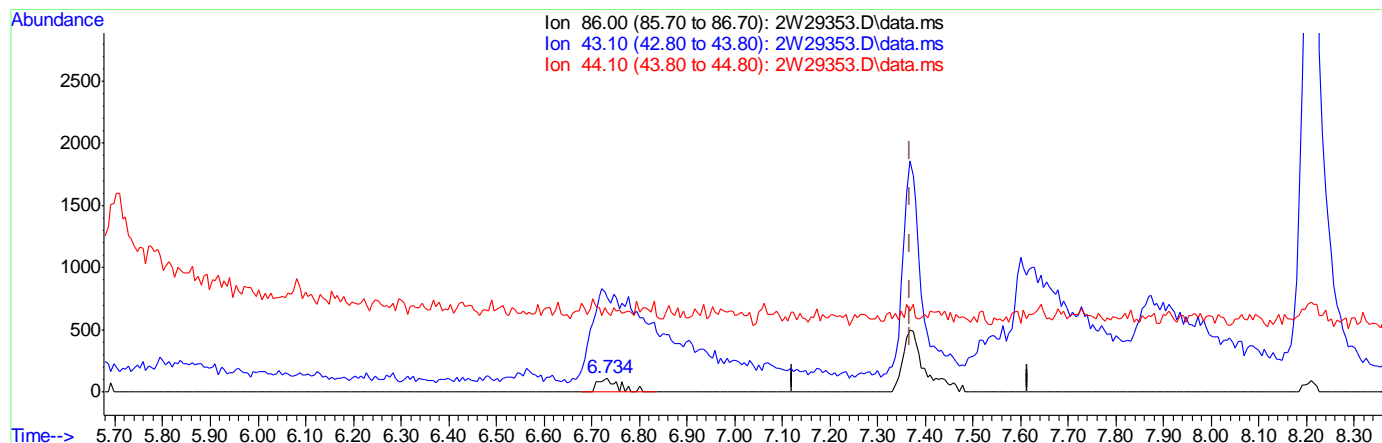
response 1781

Ion	Exp%	Act%
72.10	100	100
42.10	179.70	0.00#
71.10	92.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOU MINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29353.D\data.ms

(34) VINYL ACETATE

6.734min (-0.634) 0.05PPBV m

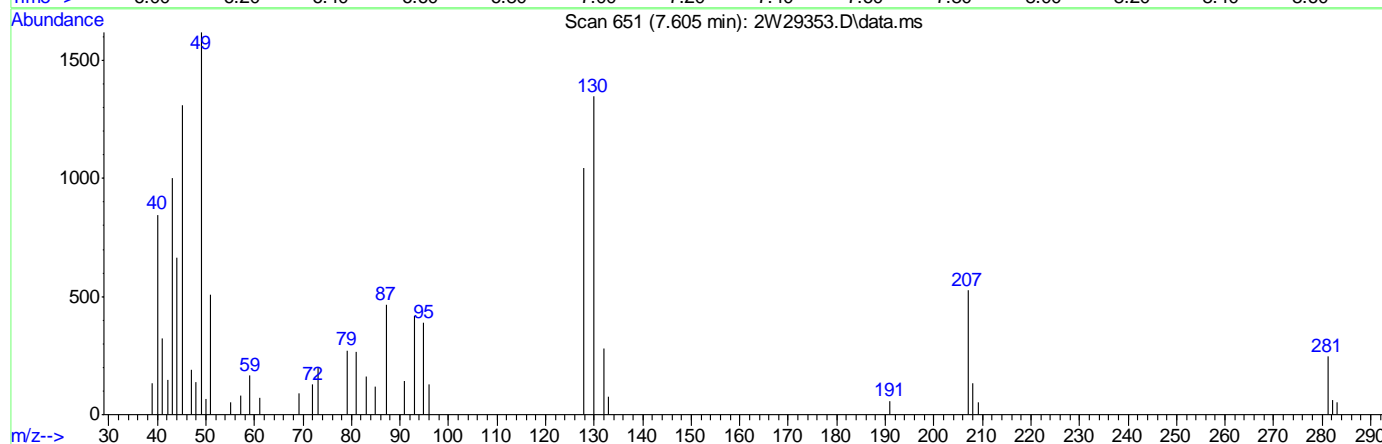
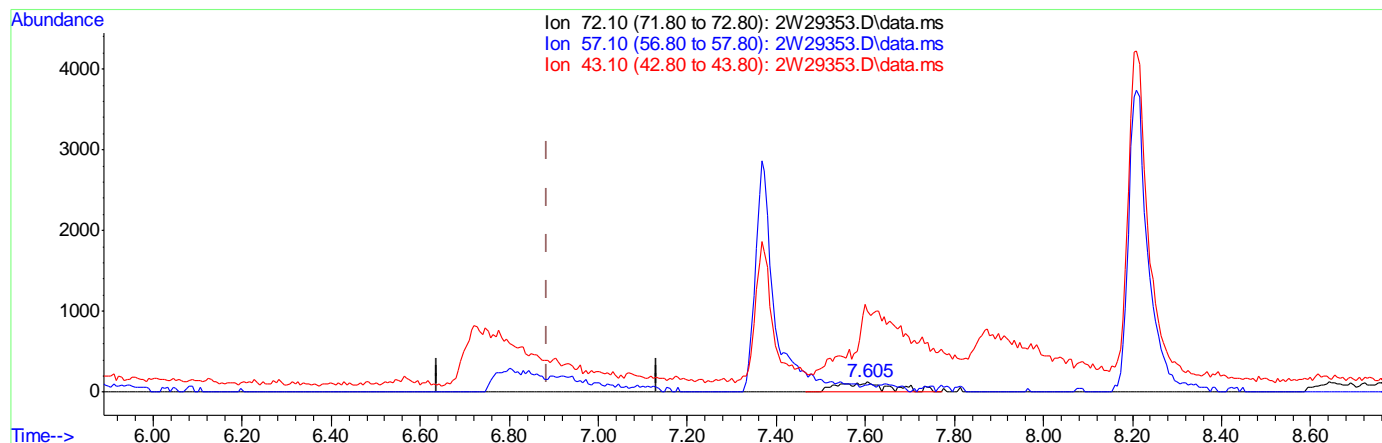
response 319

Ion	Exp%	Act%
86.00	100	100
43.10	700.50	1549.84#
44.10	43.90	68.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(36) METHYL ETHYL KETONE

7.605min (+0.719) 0.12PPBV m

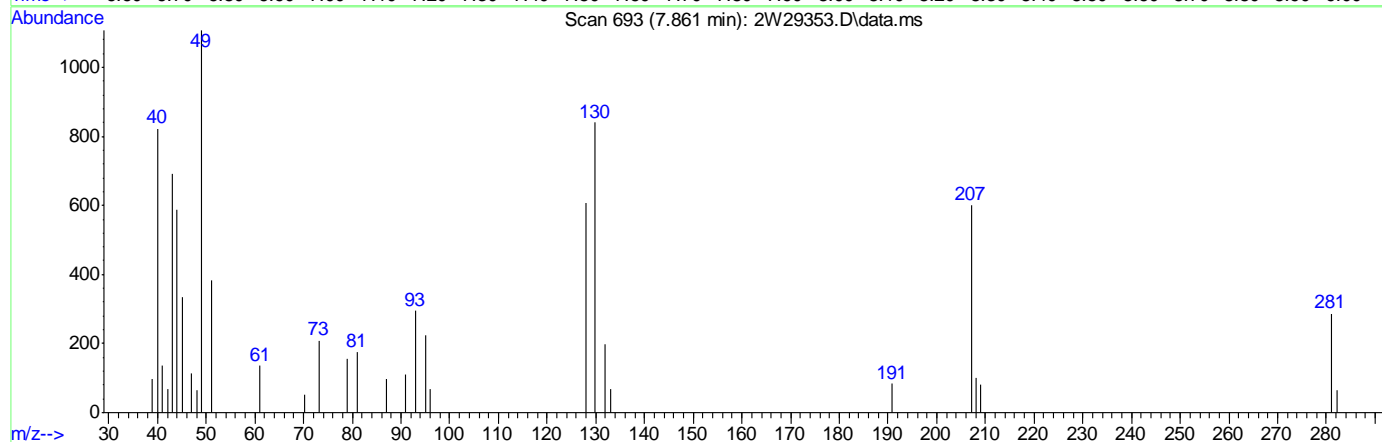
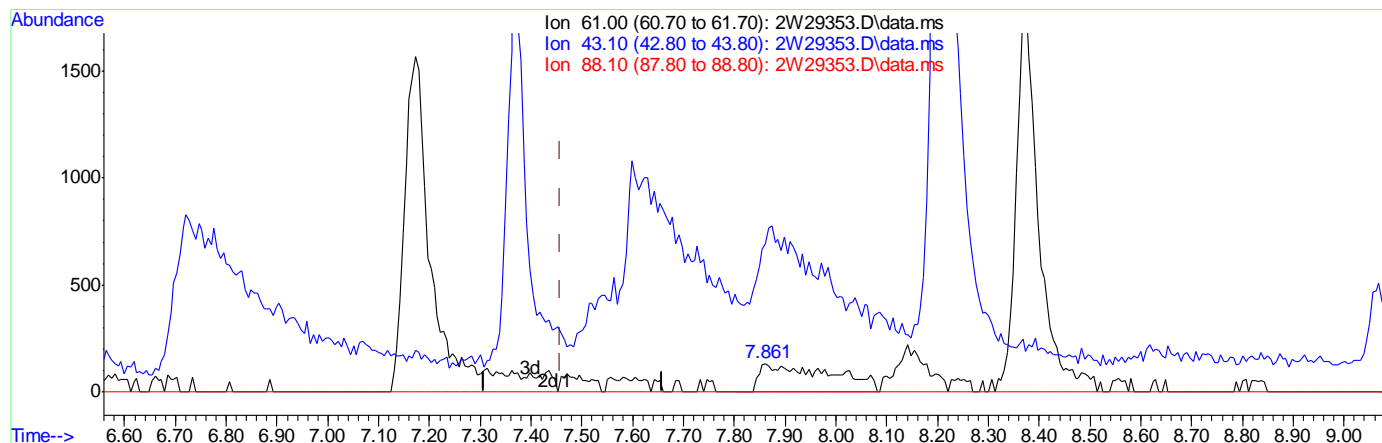
response 992

Ion	Exp%	Act%
72.10	100	100
57.10	27.90	65.87#
43.10	295.20	796.03#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(38) ETHYL ACETATE

7.861min (+0.402) 0.24PPBV m

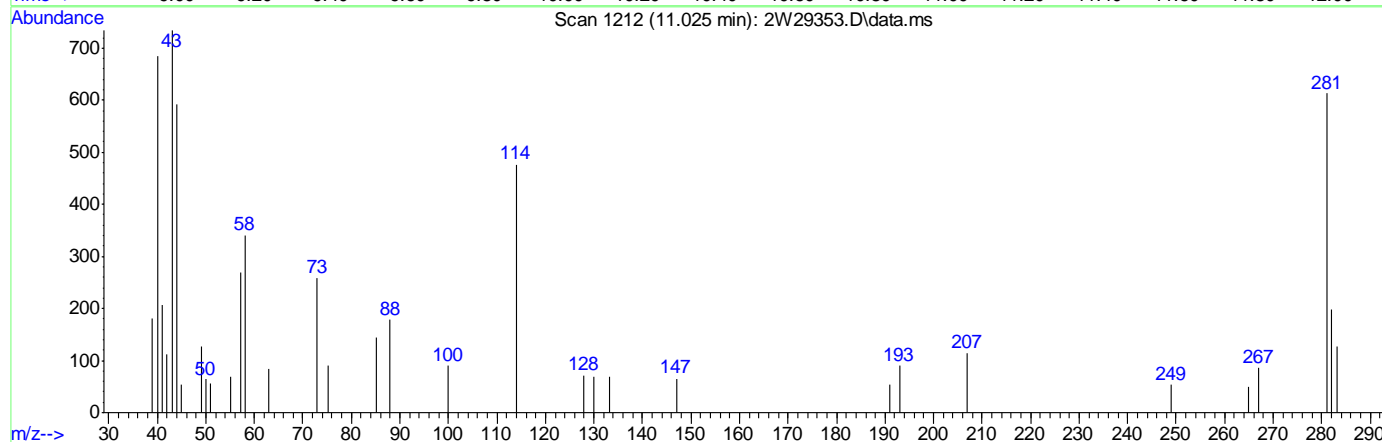
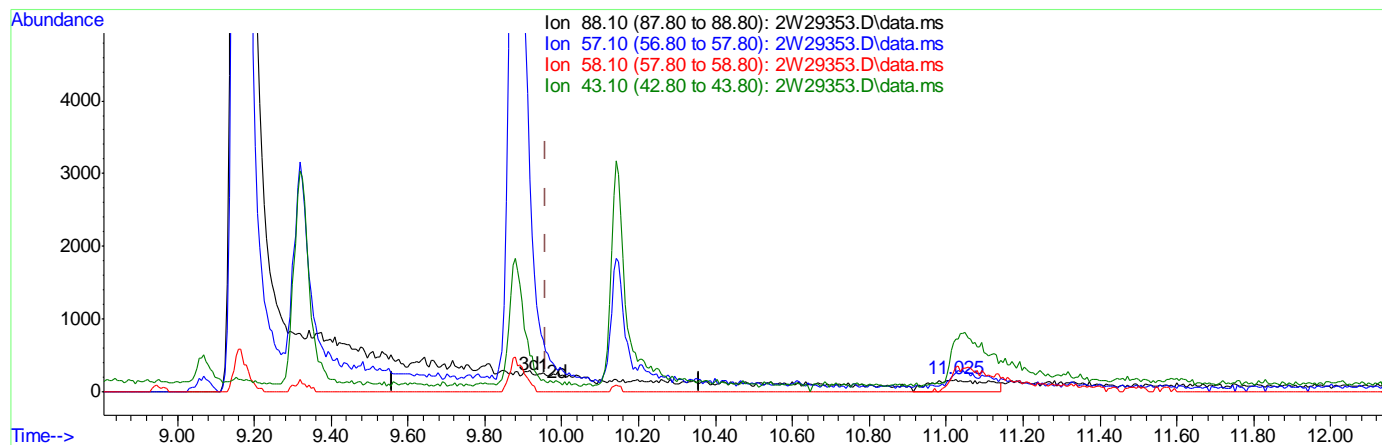
response 1286

Ion	Exp%	Act%
61.00	100	100
43.10	545.50	0.00#
88.10	34.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOU MINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(52) 1,4-DIOXANE

11.025min (+1.066) 0.20PPBV m

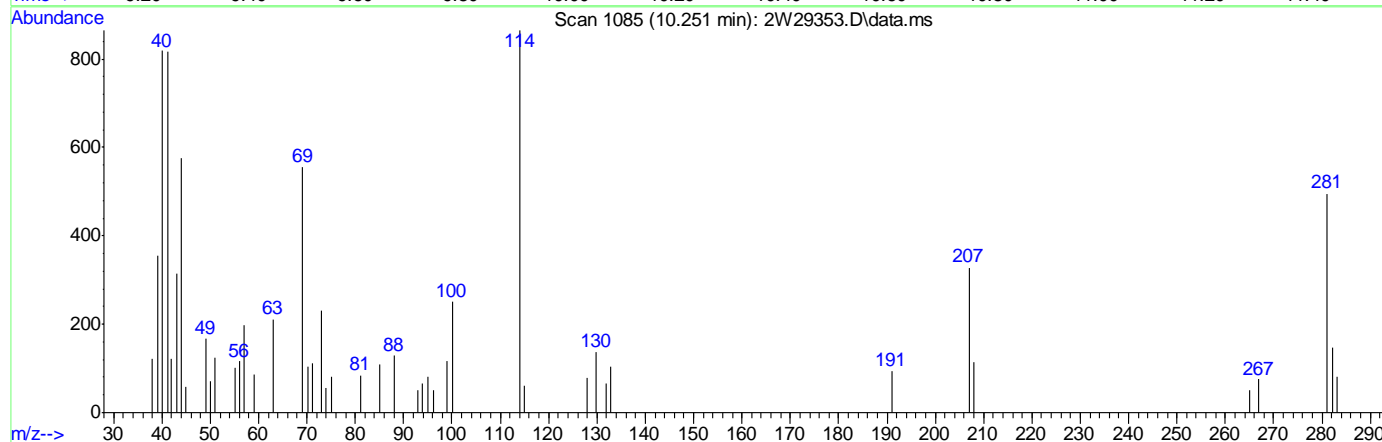
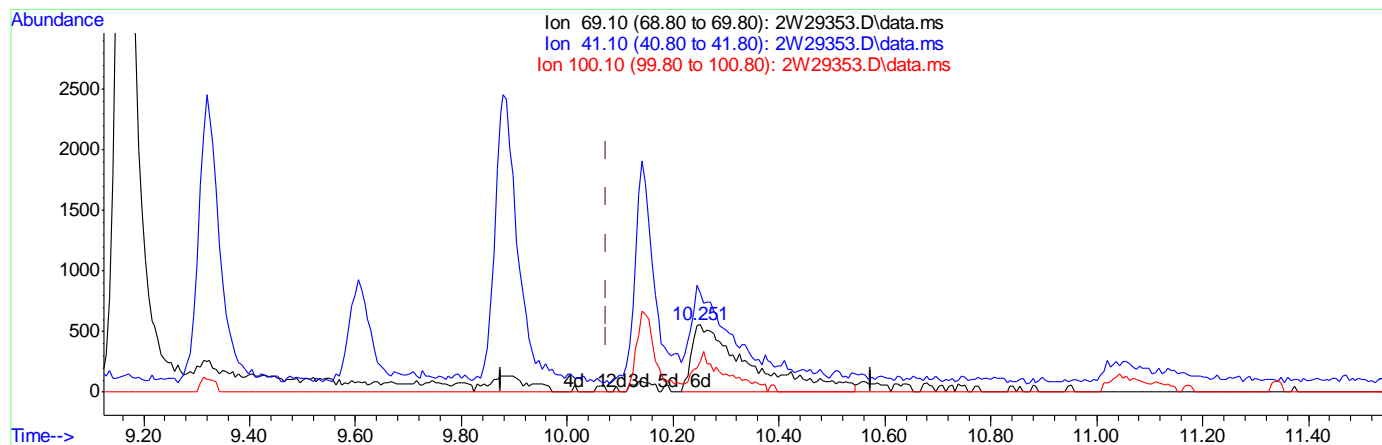
response 1807

Ion	Exp%	Act%
88.10	100	100
57.10	19.60	151.12#
58.10	63.20	191.57#
43.10	20.70	412.36#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(53) METHYL METHACRYLATE

10.251min (+0.177) 0.19PPBV m

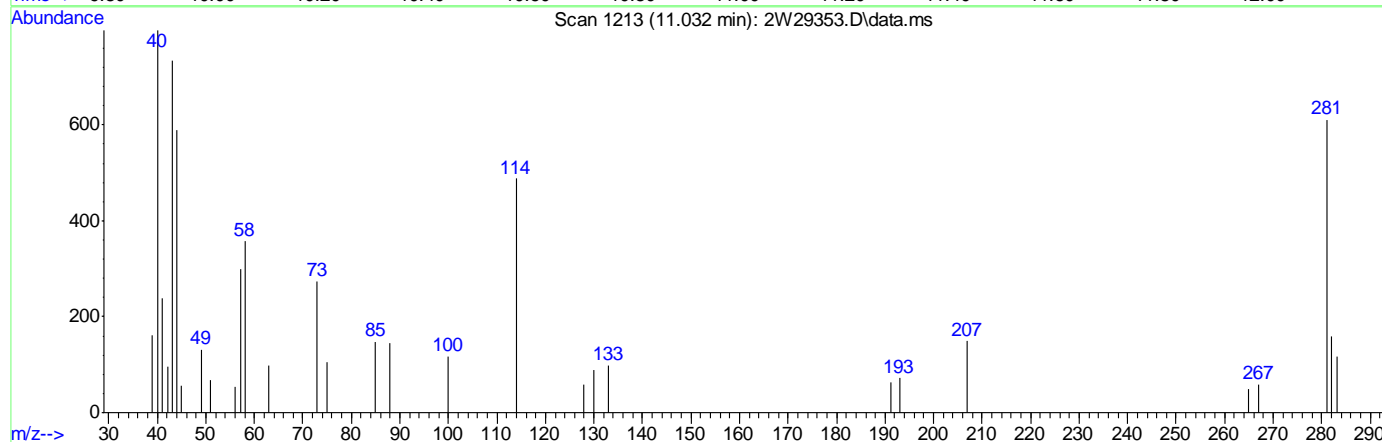
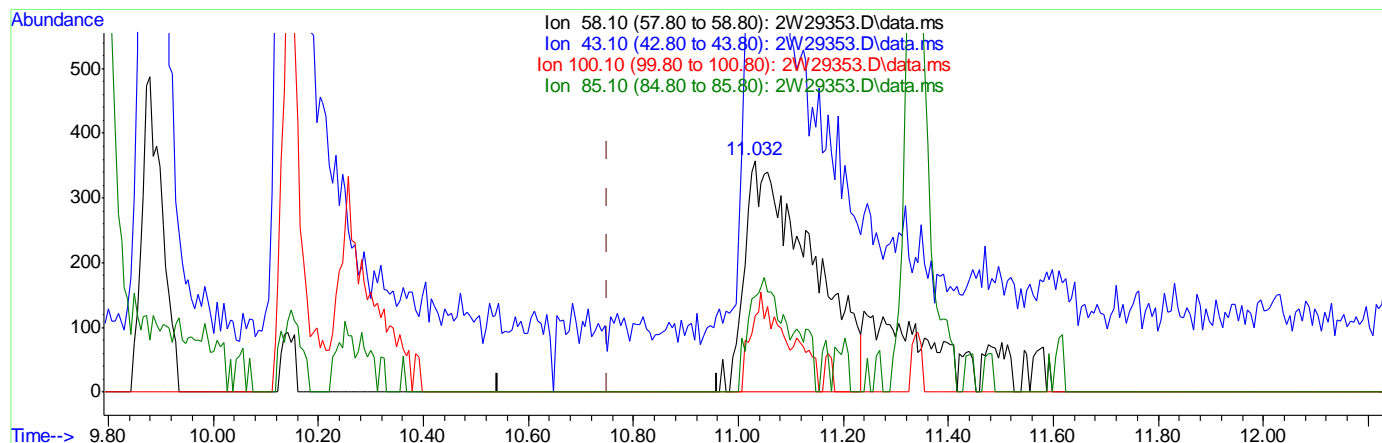
response 4226

Ion	Exp%	Act%
69.10	100	100
41.10	188.10	0.00#
100.10	87.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(56) METHYL ISOBUTYL KETONE

11.032min (+0.280) 0.18PPBV m

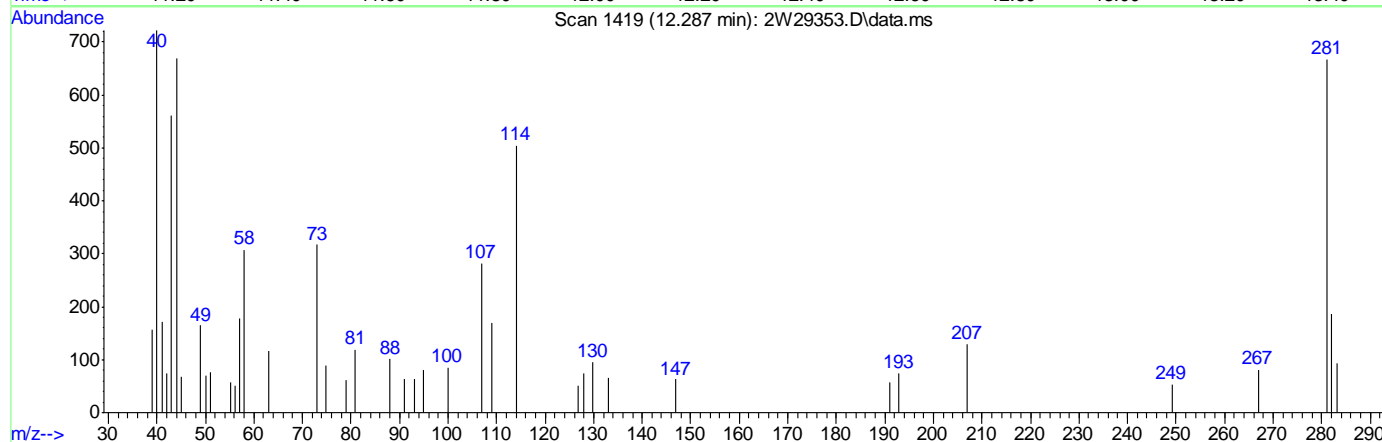
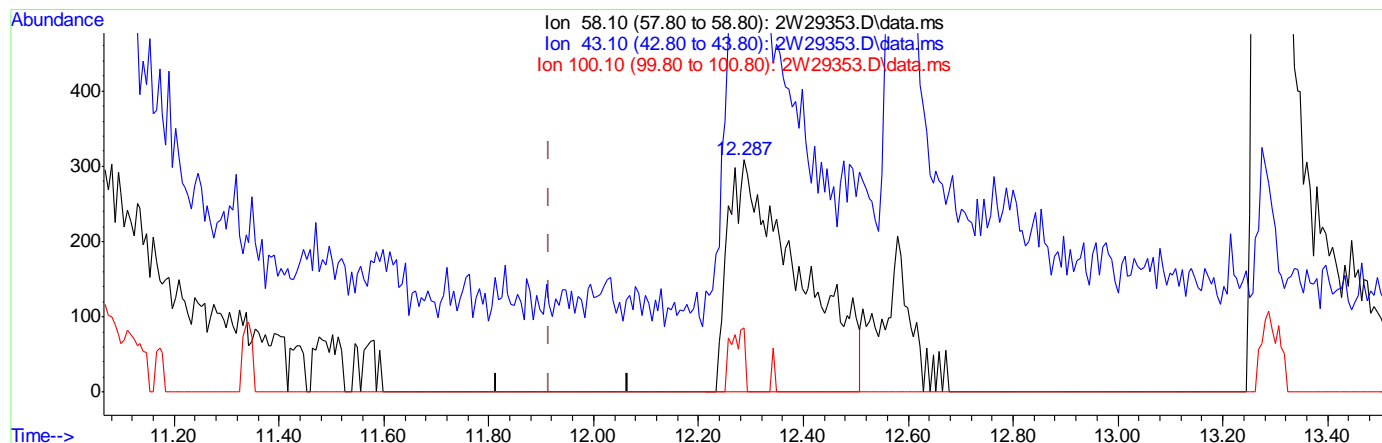
response 3133

Ion	Exp%	Act%
58.10	100	100
43.10	215.90	0.00#
100.10	47.10	0.00#
85.10	52.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(62) 2-HEXANONE

12.287min (+0.372) 0.17PPBV m

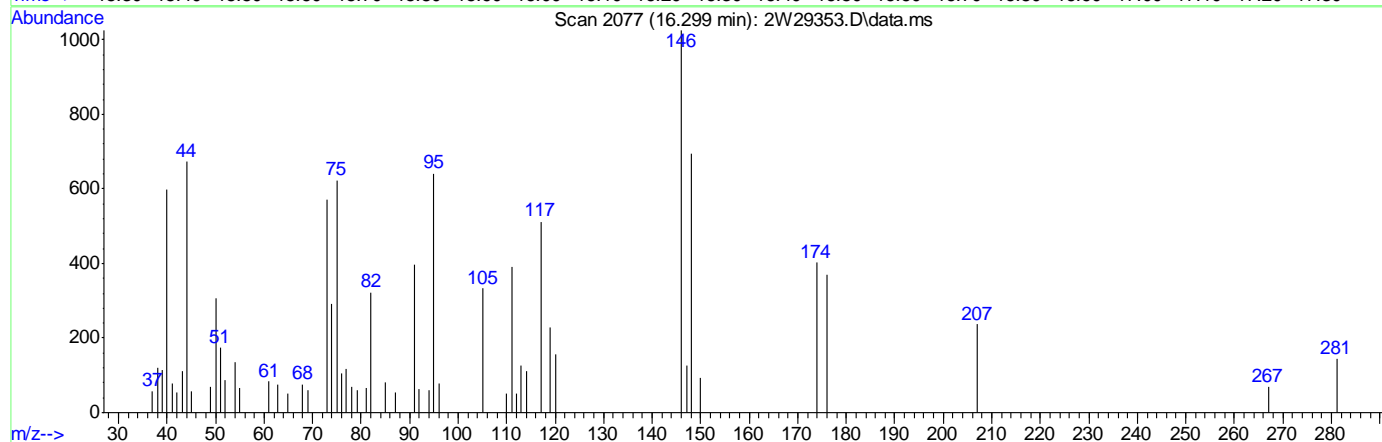
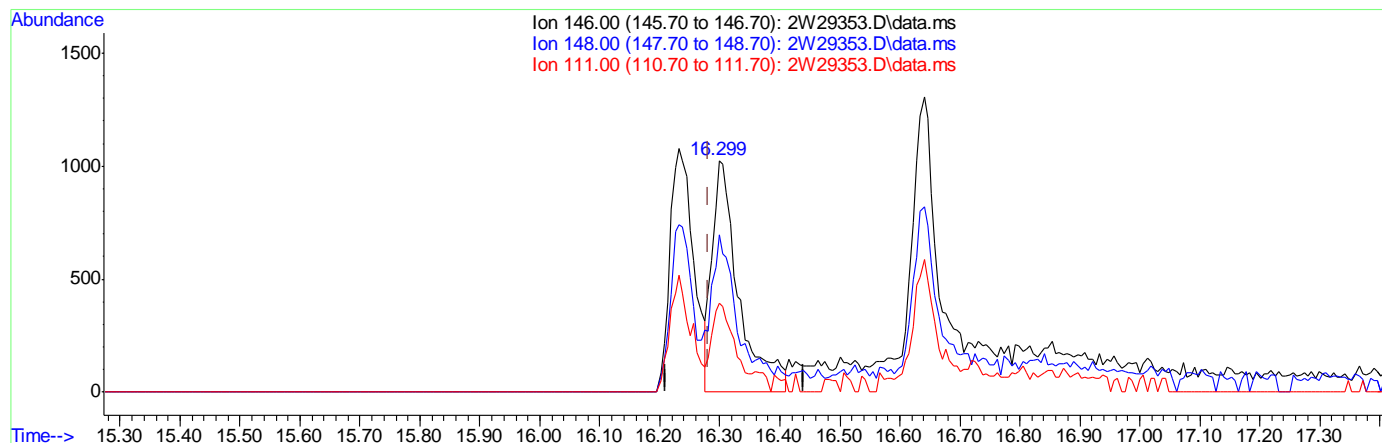
response 2851

Ion	Exp%	Act%
58.10	100	100
43.10	154.40	0.00#
100.10	26.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(86) p-DICHLOROBENZENE

16.299min (+0.018) 0.15PPBV m

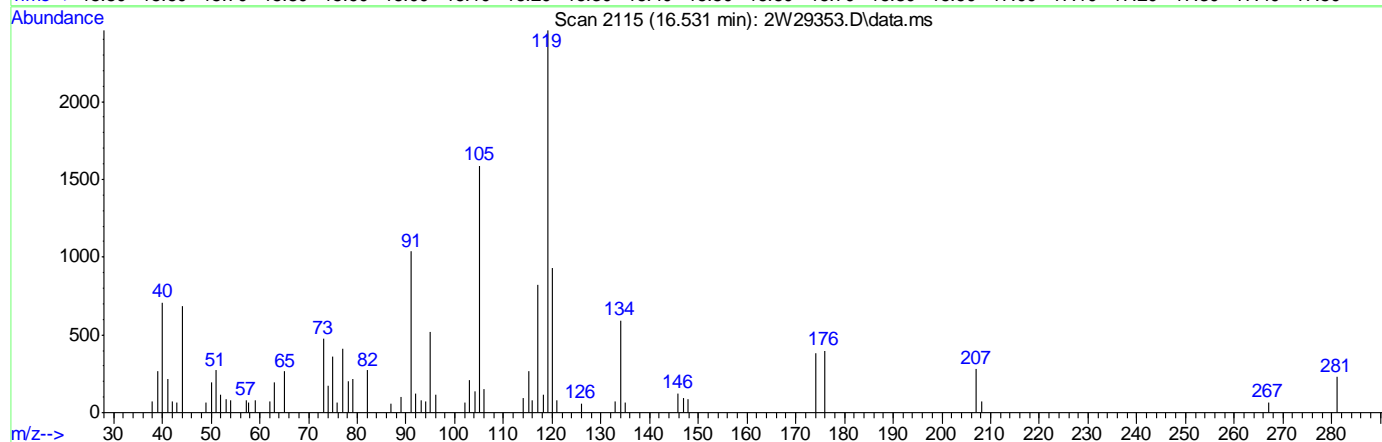
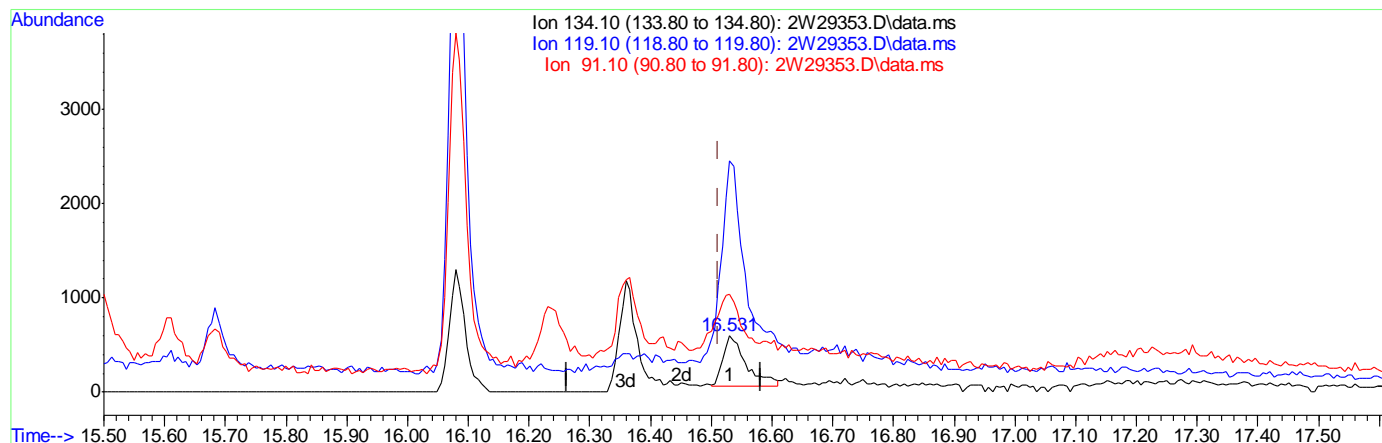
response 3181

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	52.28
111.00	38.40	37.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29353.D\data.ms

(88) p-ISOPROPYLTOLUENE

16.531min (+0.018) 0.10PPBV m

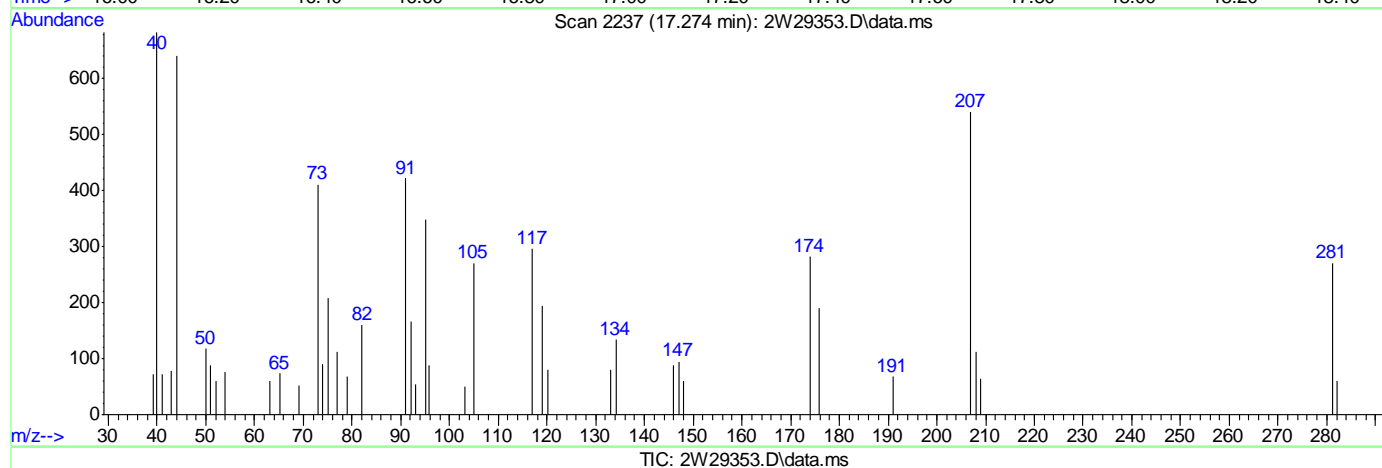
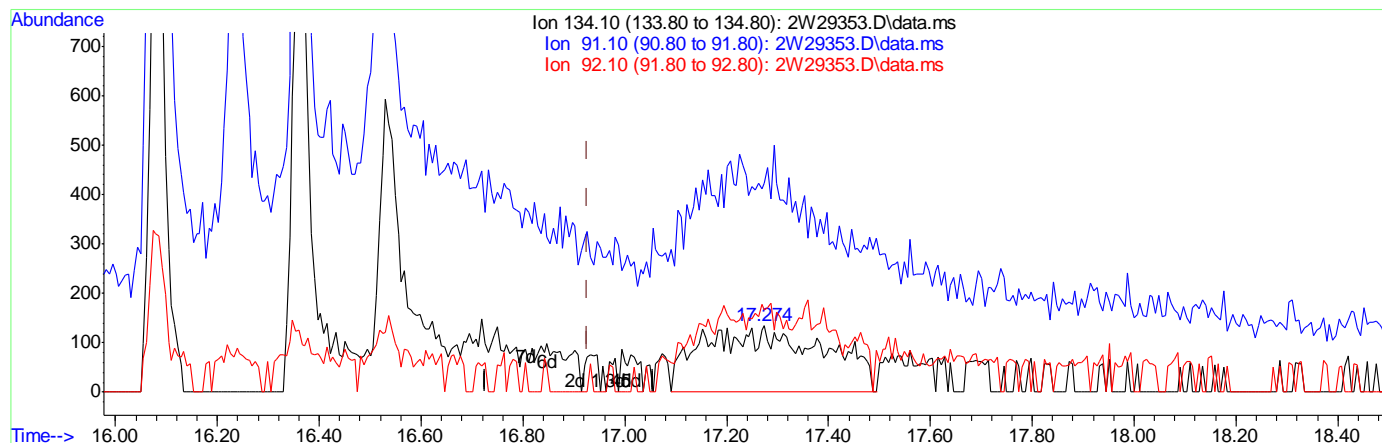
response 1434

Ion	Exp%	Act%
134.10	100	100
119.10	408.00	352.79
91.10	108.30	111.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(90) n-BUTYLBENZENE

17.274min (+0.347) 0.20PPBV m

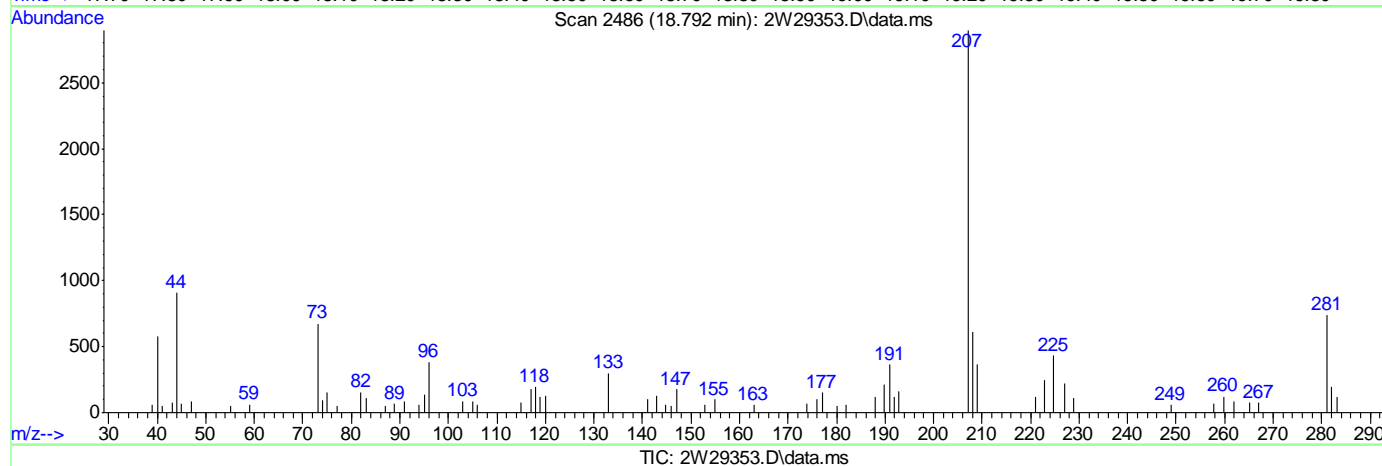
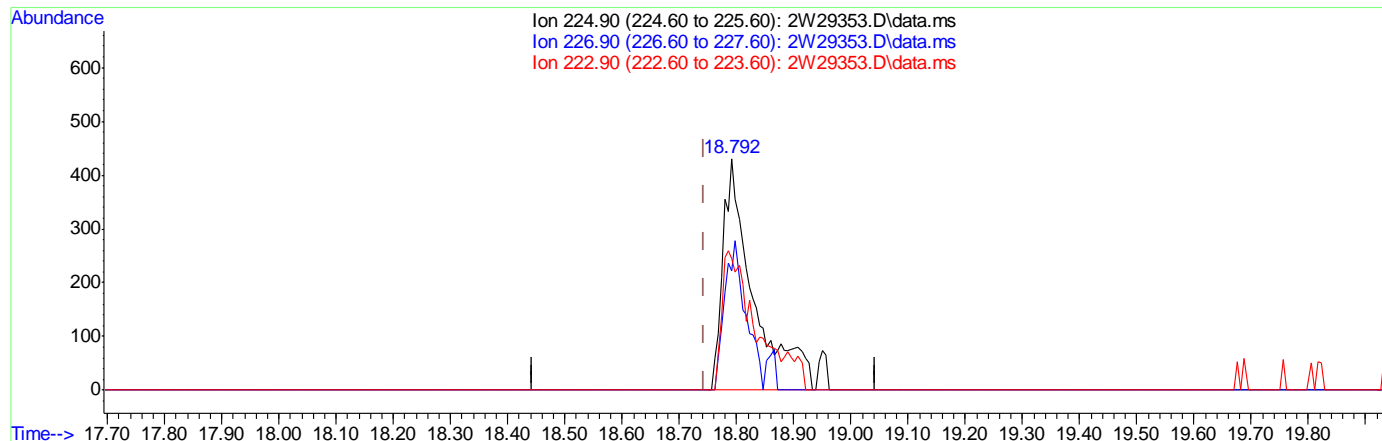
response 2178

Ion	Exp%	Act%
134.10	100	100
91.10	358.10	2.66#
92.10	197.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(91) HEXACHLOROBUTADIENE

18.792min (+0.049) 0.15PPBV m

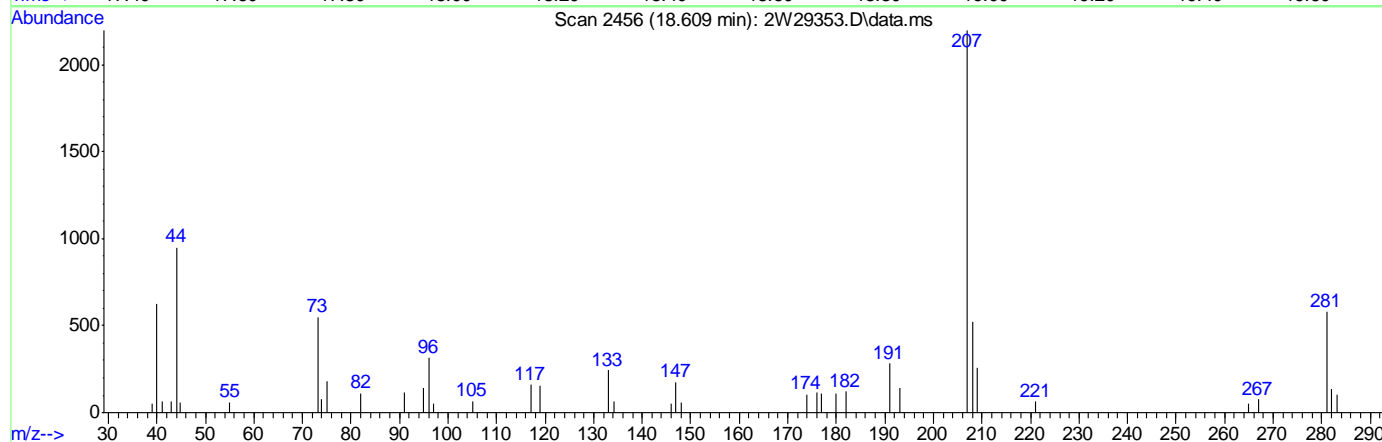
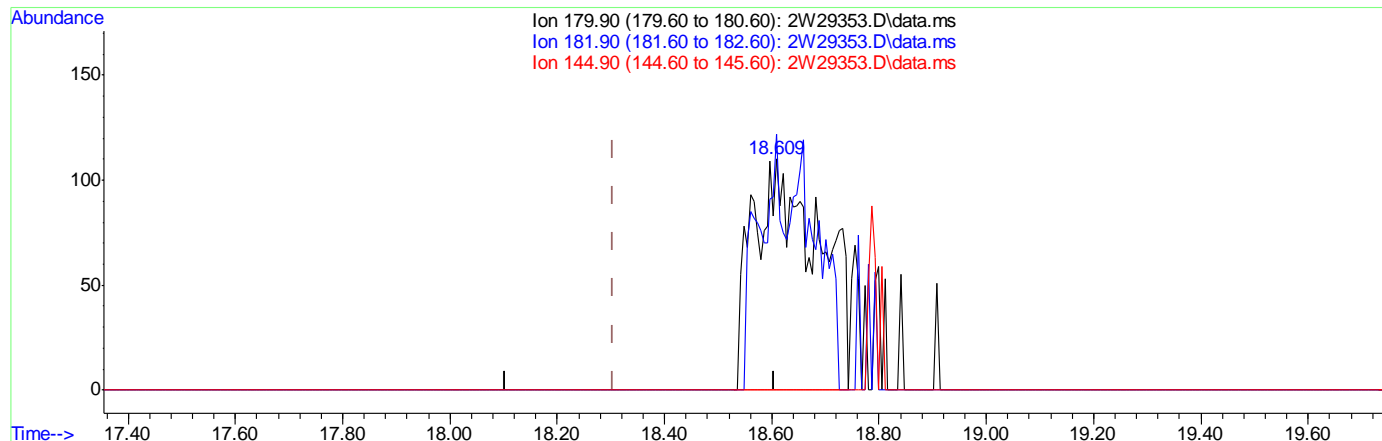
response 1598

Ion	Exp%	Act%
224.90	100	100
226.90	63.40	44.43
222.90	62.90	61.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29353.D\data.ms

(92) 1,2,4-TRICHLOROBENZENE

18.609min (+0.305) 0.15PPBV m

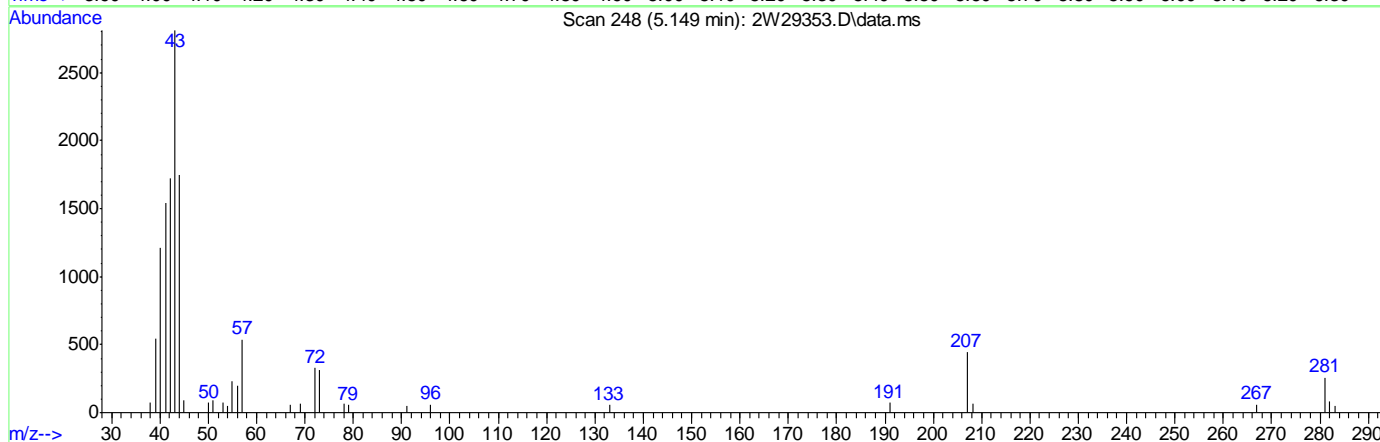
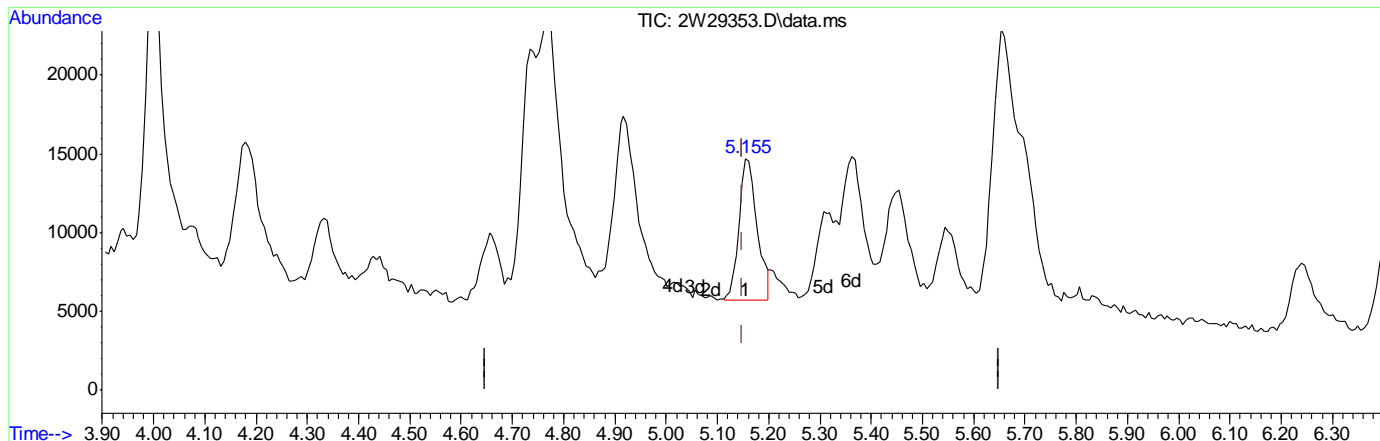
response 938

Ion	Exp%	Act%
179.90	100	100
181.90	77.40	0.00#
144.90	26.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (0.000) 0.02PPBV m

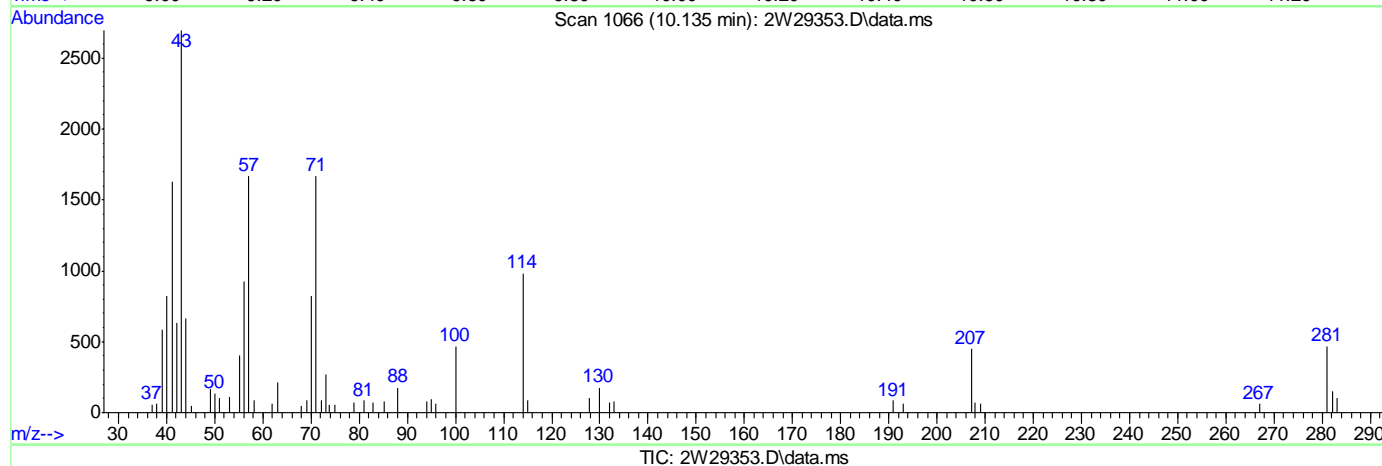
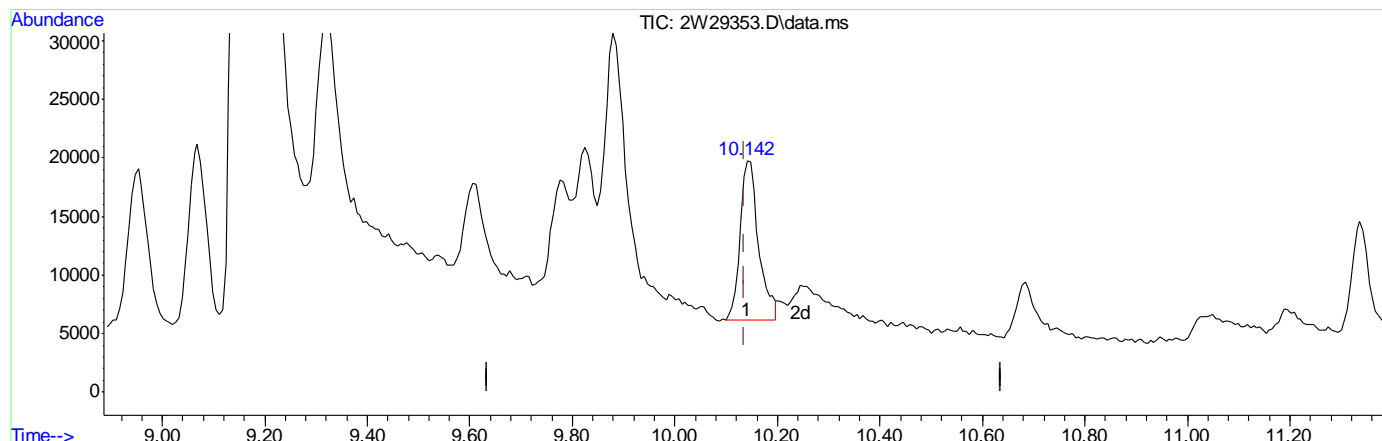
response 21999

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29353.D
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:23:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.136min (0.000) 0.04PPBV m

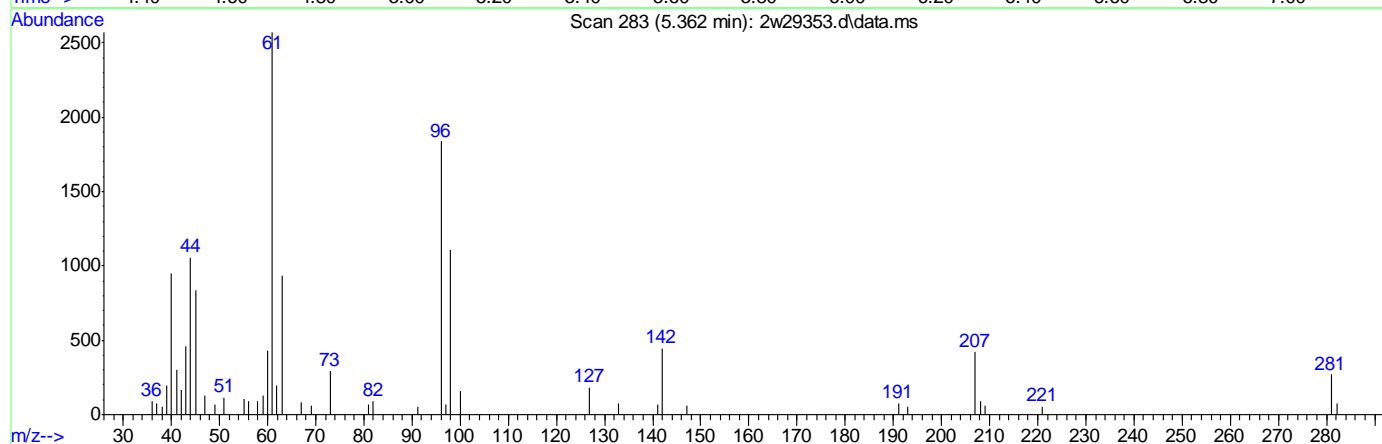
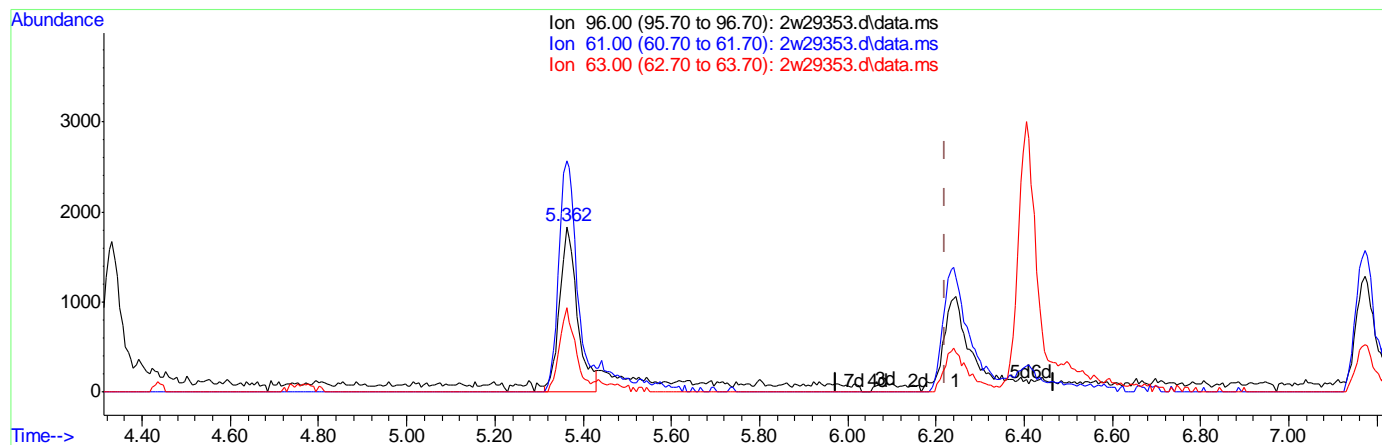
response 33895

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29353.d
Acq On : 21 Jan 2011 10:08 am
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 09:59:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2w29353.d\data.ms

(22) 1,1-DICHLOROETHYLENE

5.362min (-0.860) 0.23PPBV m

response 5150

Ion	Exp%	Act%
96.00	100	100
61.00	143.10	111.53#
63.00	47.60	36.31
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29354.d
Acq On : 21 Jan 2011 10:45 am
Operator : YOUMINH
Sample : ICC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.307	128	155412	10.00	PPBV	# 0.00
44) 1,4-DIFLUOROBENZENE	9.166	114	809661	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.281	82	379609	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.281	82	394291	10.00	PPBV	# 0.00

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.775	95	208492	5.24	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	104.80%

Target Compounds

Qvalue

3) DICHLORODIFLUOROMETHANE	3.832	85	728035	8.48	PPBV	99
4) FREON 152A	3.741	65	169306	8.10	PPBV	95
5) CHLORODIFLUOROMETHANE	3.765	67	68867	8.54	PPBV	99
6) PROPYLENE	3.783	41	213071	8.84	PPBV	99
7) FREON 114	3.997	85	850127	8.81	PPBV	97
8) CHLOROMETHANE	3.936	52	76902	8.64	PPBV	92
9) VINYL CHLORIDE	4.070	62	286599	8.90	PPBV	100
10) 1,3-BUTADIENE	4.155	54	218309	9.32	PPBV	92
11) n-BUTANE	4.186	43	431569	8.91	PPBV	# 95
12) BROMOMETHANE	4.326	94	266252	9.09	PPBV	99
13) CHLOROETHANE	4.429	64	162971	9.31	PPBV	98
14) FREON 123	4.728	83	732558	9.08	PPBV	# 75
15) FREON 123A	4.765	117	412602	8.99	PPBV	85
16) TRICHLOROFLUOROMETHANE	4.917	101	733497	8.71	PPBV	100
17) ISOPROPYL ALCOHOL	5.051	45	423325	9.74	PPBV	84
18) ACETONE	4.905	58	108076	9.72	PPBV	94
19) PENTANE	5.155	42	293096	9.15	PPBV	98
20) TVHC as EQUIV PENTANE	5.149	TIC	1497935m	1.30	PPBV	
21) IODOMETHANE	5.307	142	673441	9.60	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.356	96	280876m	9.94	PPBV	
23) CARBON DISULFIDE	5.691	76	701418	8.84	PPBV	95
24) ETHANOL	4.606	45	76764	8.45	PPBV	99
25) BROMOETHENE	4.649	106	266092	9.58	PPBV	99
26) METHYLENE CHLORIDE	5.441	84	226698	9.26	PPBV	88
27) 3-CHLOROPROPENE	5.539	76	123603	10.58	PPBV	# 46
28) FREON 113	5.655	151	468592	9.06	PPBV	94
29) TRANS-1,2-DICHLOROETHY...	6.222	96	262311	9.64	PPBV	93
30) TERTIARY BUTYL ALCOHOL	5.454	59	530794	9.67	PPBV	89
31) METHYL TERTIARY BUTYL ...	6.496	73	845728	9.77	PPBV	96
32) TETRAHYDROFURAN	7.959	72	109500	9.47	PPBV	# 87
33) HEXANE	7.368	57	452429	9.44	PPBV	95
34) VINYL ACETATE	6.569	86	53174m	6.10	PPBV	
35) 1,1-DICHLOROETHANE	6.399	63	528730	9.69	PPBV	99
36) METHYL ETHYL KETONE	6.886	72	100249	9.85	PPBV	# 59
37) cis-1,2-DICHLOROETHYLENE	7.161	96	274022	10.63	PPBV	89
38) ETHYL ACETATE	7.459	61	61259	9.14	PPBV	# 90
39) CHLOROFORM	7.429	83	590836	10.12	PPBV	98
40) 2,4-DIMETHYLPENTANE	8.209	57	607724	9.24	PPBV	95
41) 1,1,1-TRICHLOROETHANE	8.374	97	645821	9.22	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29354.d
Acq On : 21 Jan 2011 10:45 am
Operator : YOUMINH
Sample : ICC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.953	117	659733	9.26	PPBV	100
43) 1,2-DICHLOROETHANE	8.130	62	321317	10.84	PPBV	99
45) BENZENE	8.813	78	878145	9.81	PPBV	98
46) CYCLOHEXANE	9.069	56	506308	9.11	PPBV #	78
47) 2,3-DIMETHYLPENTANE	9.319	71	236677	9.01	PPBV	91
48) TRICHLOROETHYLENE	9.825	95	347762	9.34	PPBV	95
49) 1,2-DICHLOROPROPANE	9.593	63	328184	10.55	PPBV	98
50) BROMODICHLOROMETHANE	9.776	83	589431	10.23	PPBV	96
51) 2,2,4-TRIMETHYLPENTANE	9.880	57	1563864	8.97	PPBV	99
52) 1,4-DIOXANE	9.959	88	127676	12.99	PPBV #	81
53) METHYL METHACRYLATE	10.075	69	291208	10.54	PPBV #	27
54) HEPTANE	10.142	43	514896	9.90	PPBV	89
55) TVHC as EQUIV HEPTANE	10.136	TIC	2460324m	2.25	PPBV	
56) METHYL ISOBUTYL KETONE	10.751	58	223670	10.23	PPBV	89
57) cis-1,3-DICHLOROPROPENE	10.660	75	424802	10.61	PPBV	91
58) TOLUENE	11.599	92	592061	10.57	PPBV	98
59) trans-1,3-DICHLOROPROPENE	11.172	75	310576	13.07	PPBV	91
60) 1,1,2-TRICHLOROETHANE	11.324	83	286288	10.95	PPBV	97
62) 2-HEXANONE	11.916	58	229553	10.30	PPBV	90
63) TETRACHLOROETHYLENE	12.672	164	353175	9.99	PPBV	99
64) DIBROMOCHLOROMETHANE	11.983	129	555506	10.82	PPBV	100
65) 1,2-DIBROMOETHANE	12.214	107	391445	11.06	PPBV	100
66) OCTANE	12.580	43	695513	10.54	PPBV	89
67) 1,1,1,2-TETRACHLOROETHANE	13.306	131	454872	9.94	PPBV	86
68) CHLOROBENZENE	13.324	112	651957	10.32	PPBV	96
69) ETHYLBENZENE	13.702	91	1221345	10.61	PPBV	98
70) m,p-XYLENE	13.879	106	932348	21.72	PPBV	95
71) o-XYLENE	14.324	106	463480	10.89	PPBV	94
72) STYRENE	14.220	104	549582	11.78	PPBV	98
73) NONANE	14.580	43	660385	11.80	PPBV	92
74) BROMOFORM	13.915	173	454640	10.99	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.312	83	596119	10.65	PPBV	99
77) ISOPROPYLBENZENE	14.915	105	1389096	11.10	PPBV	98
78) 2-CHLOROTOLUENE	15.391	126	281833	11.40	PPBV #	1
79) n-PROPYLBENZENE	15.439	120	329752	11.56	PPBV #	34
80) 4-ETHYLTOLUENE	15.592	105	1097518	12.42	PPBV	98
81) 1,3,5-TRIMETHYLBENZENE	15.671	105	1012891	12.45	PPBV	97
82) TERT-BUTYLBENZENE	16.074	134	248065	12.40	PPBV	90
83) 1,2,4-TRIMETHYLBENZENE	16.080	105	889496	12.60	PPBV	99
84) m-DICHLOROBENZENE	16.214	146	371731	12.62	PPBV	100
85) BENZYL CHLORIDE	16.202	91	467466	12.73	PPBV	98
86) p-DICHLOROBENZENE	16.281	146	361905	12.19	PPBV	100
87) SEC-BUTYLBENZENE	16.348	134	279696	11.74	PPBV	90
88) p-ISOPROPYLTOLUENE	16.512	134	252487	13.30	PPBV	94
89) o-DICHLOROBENZENE	16.616	146	353445	12.03	PPBV	99
90) n-BUTYLBENZENE	16.927	134	162398	10.70	PPBV	88
91) HEXACHLOROBUTADIENE	18.744	225	185196	12.65	PPBV	99
92) 1,2,4-TRICHLOROBENZENE	18.305	180	89797	10.64	PPBV	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29354.d
Acq On : 21 Jan 2011 10:45 am
Operator : YOUMINH
Sample : ICC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

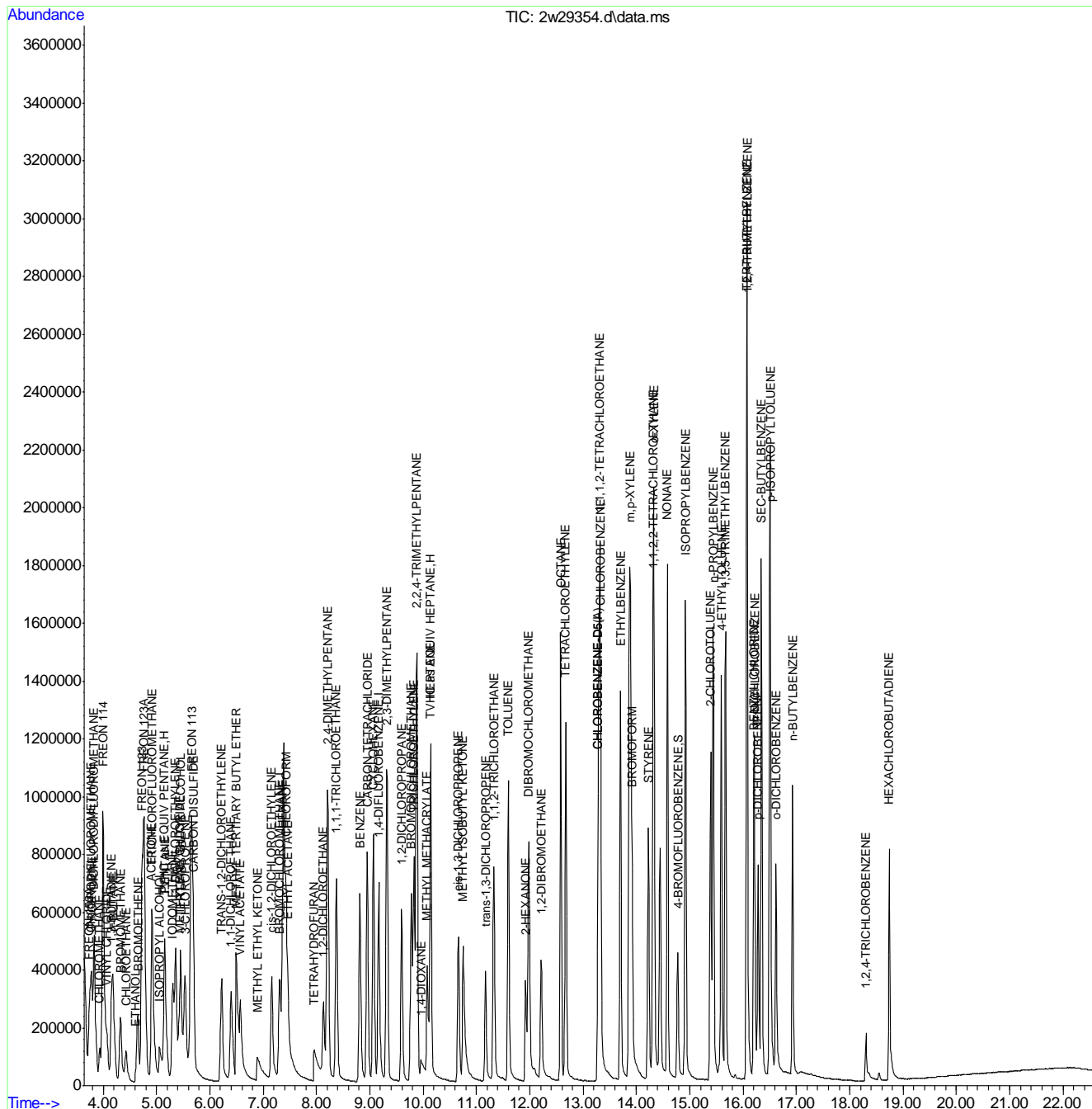
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29354.d
Acq On : 21 Jan 2011 10:45 am
Operator : YOUMINH
Sample : ICC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w\Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2W1240-ICC1240

Method: TO-15

Lab FileID: 2W29354.D

Analyst approved: 01/25/11 15:48 Li Yuan

Injection Time: 01/21/11 10:45

Supervisor approved: 01/28/11 14:12 Jessica Reitan-Chu

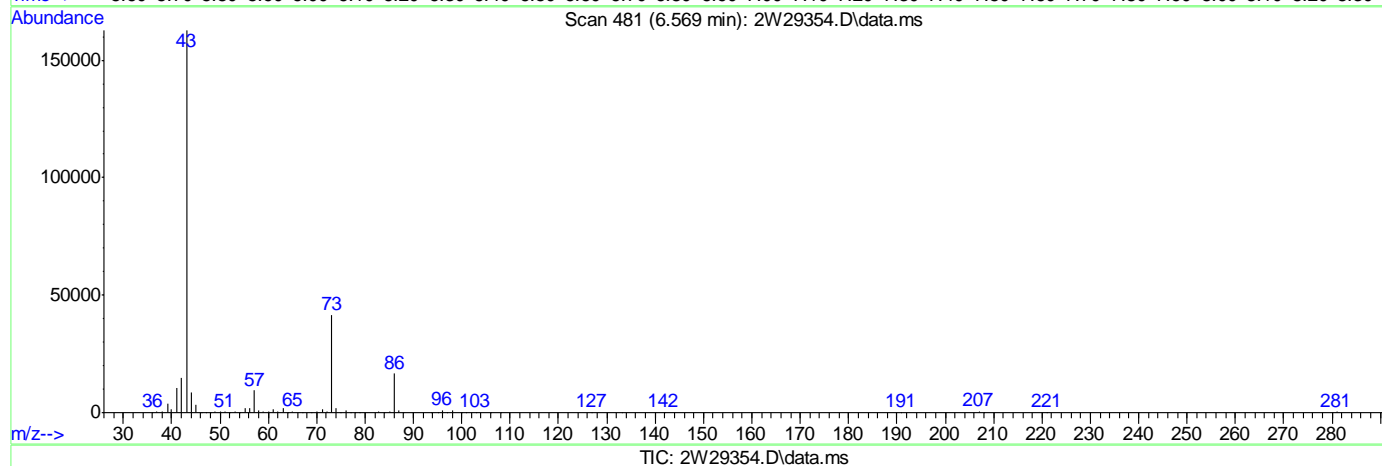
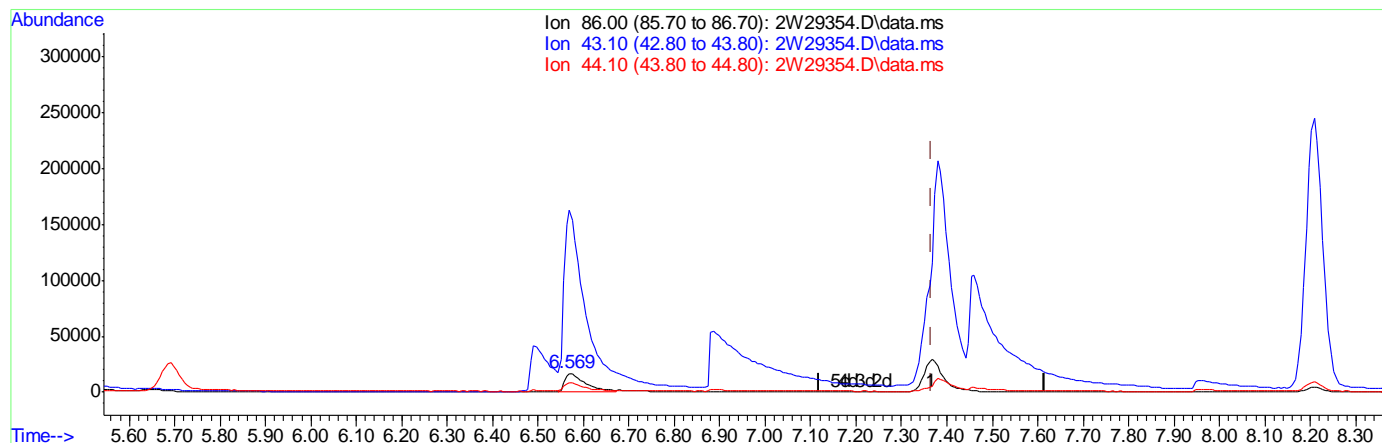
Parameter	CAS	Sig#	R.T. (min.)	Reason
Vinyl Acetate	108-05-4		6.57	Missed peak

6.7.2.1
6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29354.D
Acq On : 21 Jan 2011 10:45 am
Operator : YOUMINH
Sample : ICC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:24:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(34) VINYL ACETATE

6.569min (-0.799) 6.10PPBV m

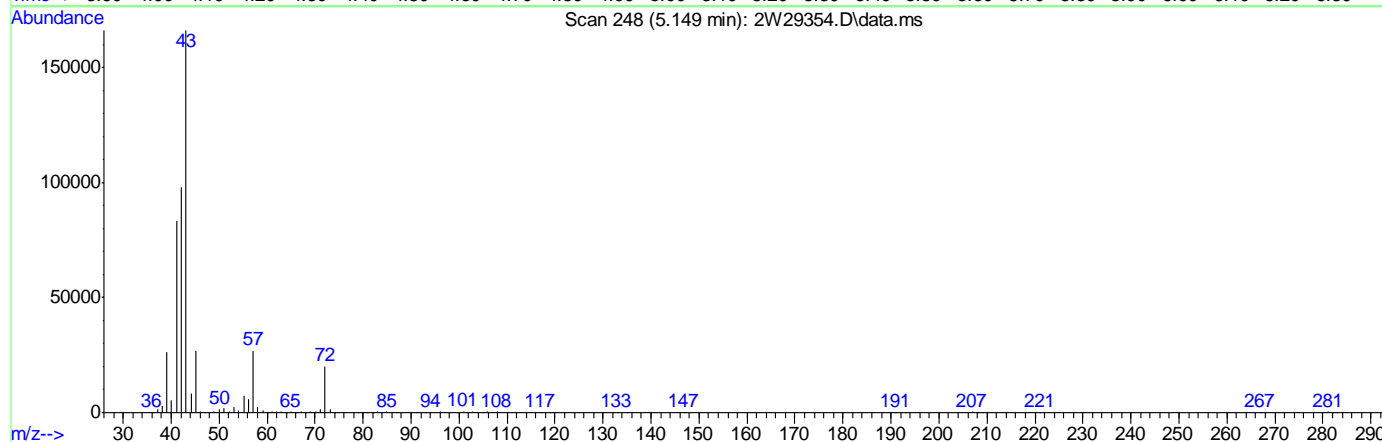
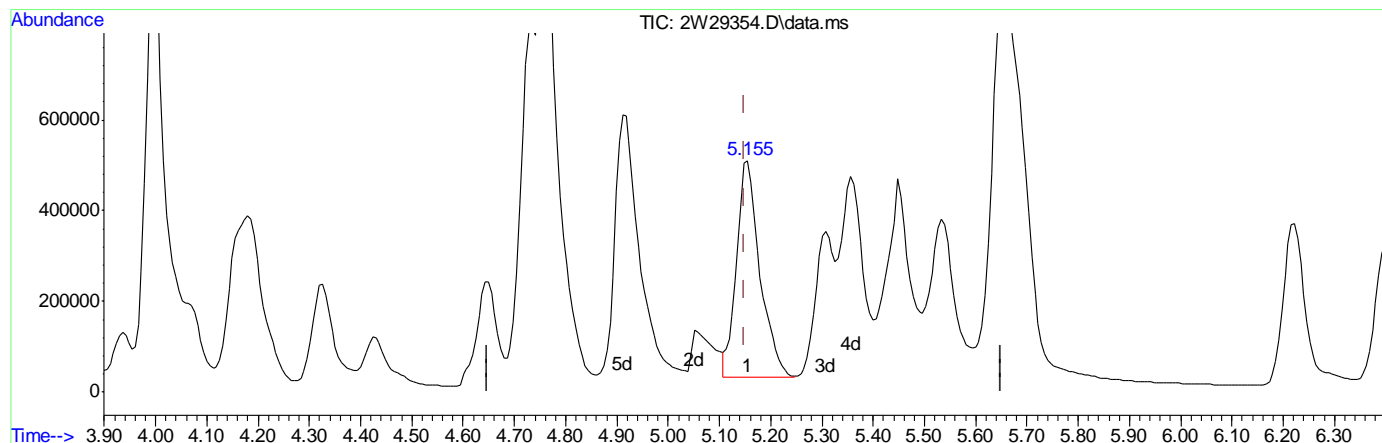
response 53174

Ion	Exp%	Act%
86.00	100	100
43.10	700.50	1171.67#
44.10	43.90	63.81
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29354.D
Acq On : 21 Jan 2011 10:45 am
Operator : YOU MINH
Sample : ICC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:24:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (0.000) 1.30PPBV m

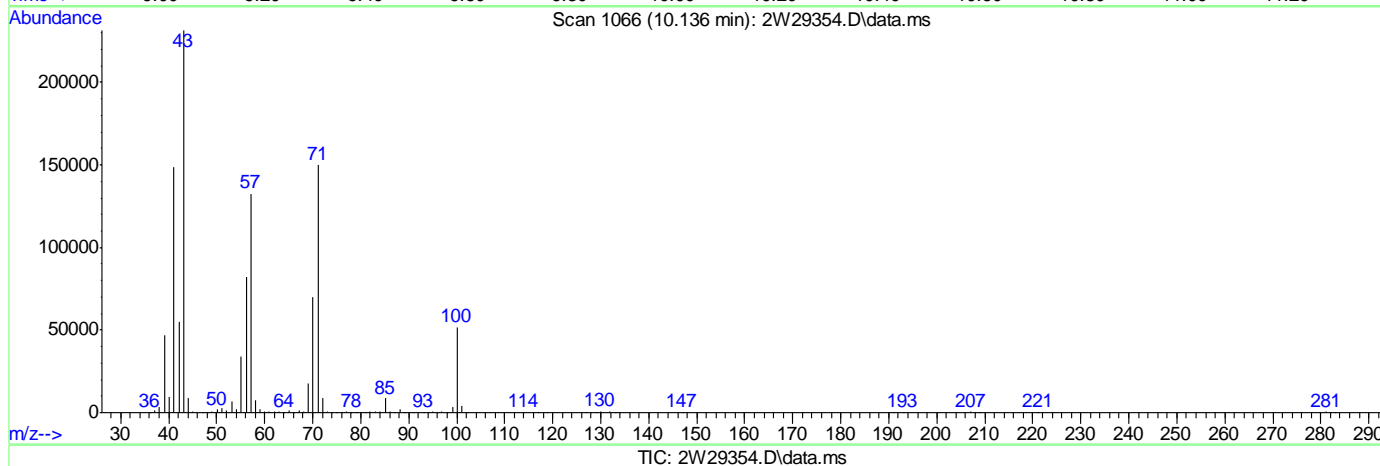
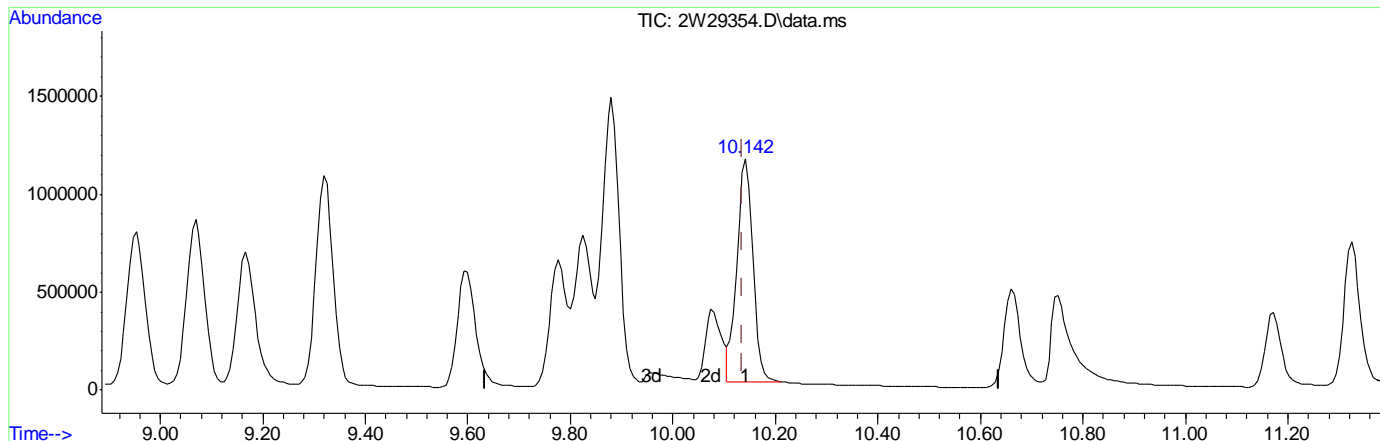
response 1497935

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29354.D
Acq On : 21 Jan 2011 10:45 am
Operator : YOUMINH
Sample : ICC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:24:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.136min (0.000) 2.25PPBV m

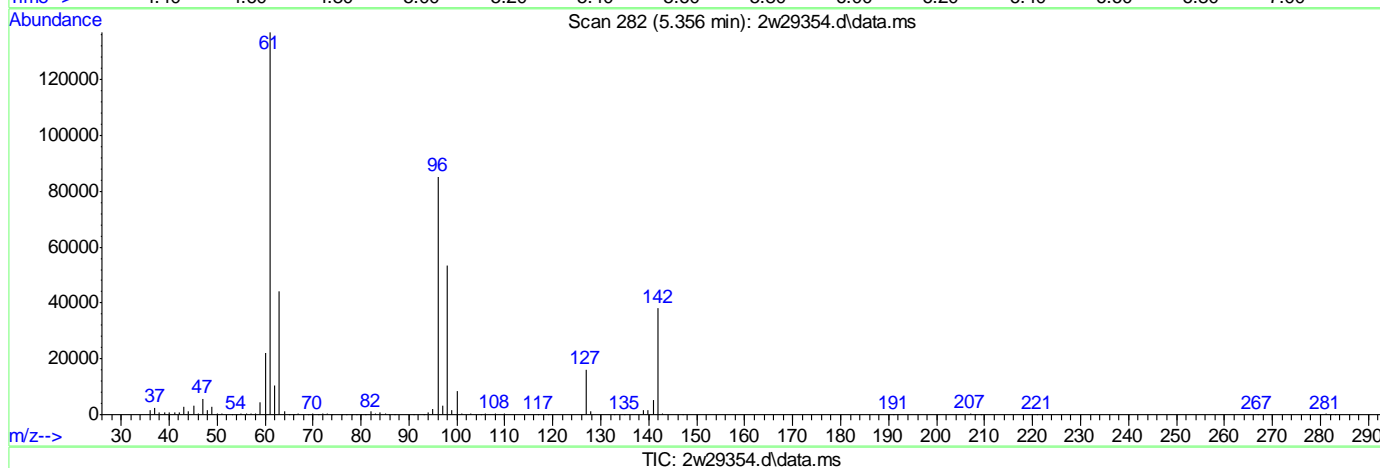
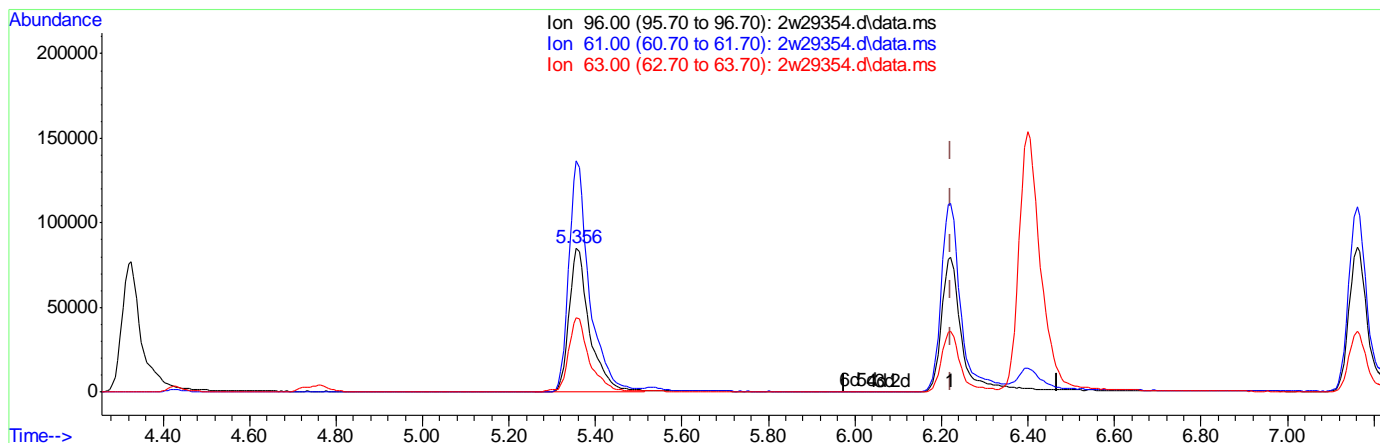
response 2460324

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29354.d
Acq On : 21 Jan 2011 10:45 am
Operator : YOUMINH
Sample : ICC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(22) 1,1-DICHLOROETHYLENE

5.356min (-0.866) 9.94PPBV m

response 280876

Ion	Exp%	Act%
96.00	100	100
61.00	143.10	126.12
63.00	47.60	40.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29355.d
 Acq On : 21 Jan 2011 11:23 am
 Operator : YOU MINH
 Sample : IC1240-0.5
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 08:59:32 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Mon Jan 24 10:22:56 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.313	128	128335	10.00	PPBV	# 0.00
44) 1,4-DIFLUOROBENZENE	9.166	114	679964	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.281	82	285777	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.281	82	299706	10.00	PPBV	# 0.00

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.775	95	154385	5.16	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	103.20%

Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	3.832	85	35979	0.51	PPBV	98
4) FREON 152A	3.740	65	10231	0.59	PPBV	96
5) CHLORODIFLUOROMETHANE	3.771	67	3791	0.57	PPBV	94
6) PROPYLENE	3.795	41	10356	0.52	PPBV	98
7) FREON 114	3.997	85	40516	0.51	PPBV	98
8) CHLOROMETHANE	3.942	52	3845	0.52	PPBV #	90
9) VINYL CHLORIDE	4.082	62	14055	0.53	PPBV	98
10) 1,3-BUTADIENE	4.167	54	9841	0.51	PPBV	90
11) n-BUTANE	4.185	43	21380	0.53	PPBV #	93
12) BROMOMETHANE	4.332	94	12872	0.53	PPBV	97
13) CHLOROETHANE	4.435	64	7792	0.54	PPBV	98
14) FREON 123	4.734	83	34239	0.51	PPBV #	75
15) FREON 123A	4.771	117	19709	0.52	PPBV	87
16) TRICHLOROFLUOROMETHANE	4.917	101	35824	0.51	PPBV	99
17) ISOPROPYL ALCOHOL	5.325	45	17086m	0.48	PPBV	
18) ACETONE	5.185	58	4752m	0.52	PPBV	
19) PENTANE	5.155	42	14426	0.55	PPBV	97
20) TVHC as EQUIV PENTANE	5.149	TIC	74131m	0.08	PPBV	
21) IODOMETHANE	5.313	142	30875	0.53	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.362	96	13021m	0.56	PPBV	
23) CARBON DISULFIDE	5.697	76	32826	0.50	PPBV	91
24) ETHANOL	4.740	45	5117m	0.68	PPBV	
25) BROMOETHENE	4.655	106	12116	0.53	PPBV	87
26) METHYLENE CHLORIDE	5.447	84	10819	0.54	PPBV	96
27) 3-CHLOROPROPENE	5.551	76	4611	0.48	PPBV #	70
28) FREON 113	5.655	151	21975	0.51	PPBV	92
29) TRANS-1,2-DICHLOROETHY...	6.234	96	9767	0.43	PPBV	89
30) TERTIARY BUTYL ALCOHOL	5.734	59	23098m	0.51	PPBV	
31) METHYL TERTIARY BUTYL ...	6.715	73	34512m	0.48	PPBV	
32) TETRAHYDROFURAN	8.496	72	4952m	0.52	PPBV	
33) HEXANE	7.368	57	20334	0.51	PPBV #	84
34) VINYL ACETATE	6.685	86	1623m	0.23	PPBV	
35) 1,1-DICHLOROETHANE	6.405	63	23404	0.52	PPBV	98
36) METHYL ETHYL KETONE	7.423	72	3919m	0.47	PPBV	
37) cis-1,2-DICHLOROETHYLENE	7.173	96	9703	0.46	PPBV #	84
38) ETHYL ACETATE	7.782	61	2378m	0.43	PPBV	
39) CHLOROFORM	7.429	83	26138	0.54	PPBV	98
40) 2,4-DIMETHYLPENTANE	8.209	57	28309	0.52	PPBV	97
41) 1,1,1-TRICHLOROETHANE	8.374	97	29457	0.51	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29355.d
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 08:59:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.953	117	30944	0.53	PPBV	99
43) 1,2-DICHLOROETHANE	8.142	62	11760	0.48	PPBV	100
45) BENZENE	8.813	78	37276	0.50	PPBV	97
46) CYCLOHEXANE	9.069	56	23300	0.50	PPBV #	78
47) 2,3-DIMETHYLPENTANE	9.319	71	11538	0.52	PPBV	98
48) TRICHLOROETHYLENE	9.825	95	14423	0.46	PPBV	95
49) 1,2-DICHLOROPROPANE	9.605	63	11912	0.46	PPBV	98
50) BROMODICHLOROMETHANE	9.776	83	21687	0.45	PPBV	86
51) 2,2,4-TRIMETHYLPENTANE	9.880	57	72797	0.50	PPBV	99
52) 1,4-DIOXANE	10.733	88	3926m	0.48	PPBV	
53) METHYL METHACRYLATE	10.215	69	9160m	0.39	PPBV	
54) HEPTANE	10.142	43	21542	0.49	PPBV	88
55) TVHC as EQUIV HEPTANE	10.136	TIC	83904m	0.09	PPBV	
56) METHYL ISOBUTYL KETONE	10.952	58	8506m	0.46	PPBV	
57) cis-1,3-DICHLOROPROPENE	10.672	75	14770	0.44	PPBV	90
58) TOLUENE	11.605	92	20188	0.43	PPBV	91
59) trans-1,3-DICHLOROPROPENE	11.184	75	7264	0.36	PPBV	86
60) 1,1,2-TRICHLOROETHANE	11.330	83	9764	0.44	PPBV	97
62) 2-HEXANONE	12.166	58	8206m	0.49	PPBV	
63) TETRACHLOROETHYLENE	12.678	164	14686	0.55	PPBV	97
64) DIBROMOCHLOROMETHANE	11.983	129	18378	0.48	PPBV	99
65) 1,2-DIBROMOETHANE	12.227	107	12951	0.49	PPBV	99
66) OCTANE	12.580	43	25209	0.51	PPBV	91
67) 1,1,1,2-TETRACHLOROETHANE	13.306	131	18995	0.55	PPBV #	1
68) CHLOROBENZENE	13.330	112	22919	0.48	PPBV #	75
69) ETHYLBENZENE	13.702	91	39070	0.45	PPBV	98
70) m,p-XYLENE	13.885	106	29412	0.91	PPBV	98
71) o-XYLENE	14.330	106	14711	0.46	PPBV	98
72) STYRENE	14.226	104	14585	0.42	PPBV	94
73) NONANE	14.586	43	19665	0.47	PPBV	93
74) BROMOFORM	13.915	173	14244	0.46	PPBV	95
76) 1,1,2,2-TETRACHLOROETHANE	14.318	83	16786	0.40	PPBV	94
77) ISOPROPYLBENZENE	14.921	105	42042	0.45	PPBV	98
78) 2-CHLOROTOLUENE	15.397	126	8483	0.46	PPBV #	1
79) n-PROPYLBENZENE	15.445	120	8952	0.42	PPBV #	29
80) 4-ETHYLTOLUENE	15.598	105	26948	0.41	PPBV	98
81) 1,3,5-TRIMETHYLBENZENE	15.677	105	26868	0.44	PPBV	94
82) TERT-BUTYLBENZENE	16.073	134	6207	0.41	PPBV	86
83) 1,2,4-TRIMETHYLBENZENE	16.079	105	23429	0.44	PPBV	96
84) m-DICHLOROBENZENE	16.220	146	8566	0.39	PPBV	98
85) BENZYL CHLORIDE	16.220	91	8876	0.32	PPBV	93
86) p-DICHLOROBENZENE	16.287	146	9716m	0.43	PPBV	
87) SEC-BUTYLBENZENE	16.354	134	7616	0.42	PPBV #	81
88) p-ISOPROPYLTOLUENE	16.518	134	5405m	0.38	PPBV	
89) o-DICHLOROBENZENE	16.628	146	8483	0.38	PPBV	97
90) n-BUTYLBENZENE	16.988	134	3156m	0.28	PPBV	
91) HEXACHLOROBUTADIENE	18.768	225	4269m	0.39	PPBV	
92) 1,2,4-TRICHLOROBENZENE	18.506	180	3444m	0.54	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29355.d
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 08:59:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

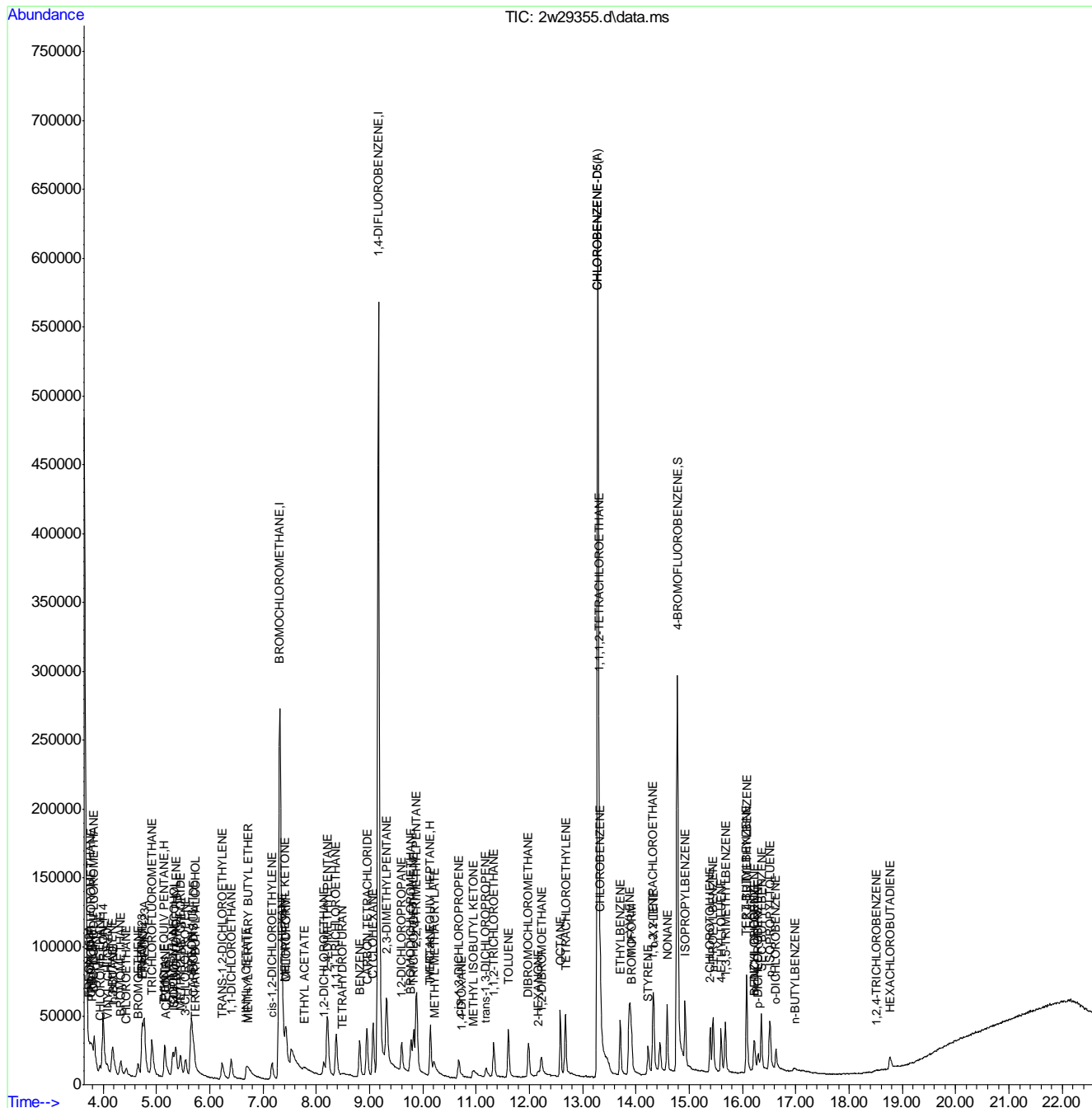
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29355.d
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 08:59:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: V2W1240-IC1240 **Method:** TO-15
Lab FileID: 2W29355.D **Analyst approved:** 01/25/11 15:48 Li Yuan
Injection Time: 01/21/11 11:23 **Supervisor approved:** 01/28/11 14:12 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethanol	64-17-5		4.74	Poor instrument integration
Acetone	67-64-1		5.19	Poor instrument integration
Isopropyl Alcohol	67-63-0		5.33	Poor instrument integration
Tertiary Butyl Alcohol	75-65-0		5.73	Poor instrument integration
Vinyl Acetate	108-05-4		6.68	Missed peak
Methyl Tert Butyl Ether	1634-04-4		6.72	Poor instrument integration
Methyl ethyl ketone	78-93-3		7.42	Poor instrument integration
Ethyl Acetate	141-78-6		7.78	Poor instrument integration
Tetrahydrofuran	109-99-9		8.50	Poor instrument integration
Methylmethacrylate	80-62-6		10.21	Poor instrument integration
1,4-Dioxane	123-91-1		10.73	Poor instrument integration
Methyl Isobutyl Ketone	108-10-1		10.95	Poor instrument integration
2-Hexanone	591-78-6		12.17	Poor instrument integration
p-Dichlorobenzene	106-46-7		16.29	Poor instrument integration
p-Isopropyltoluene	99-87-6		16.52	Poor instrument integration
n-Butylbenzene	104-51-8		16.99	Poor instrument integration
1,2,4-Trichlorobenzene	120-82-1		18.51	Poor instrument integration
Hexachlorobutadiene	87-68-3		18.77	Poor instrument integration

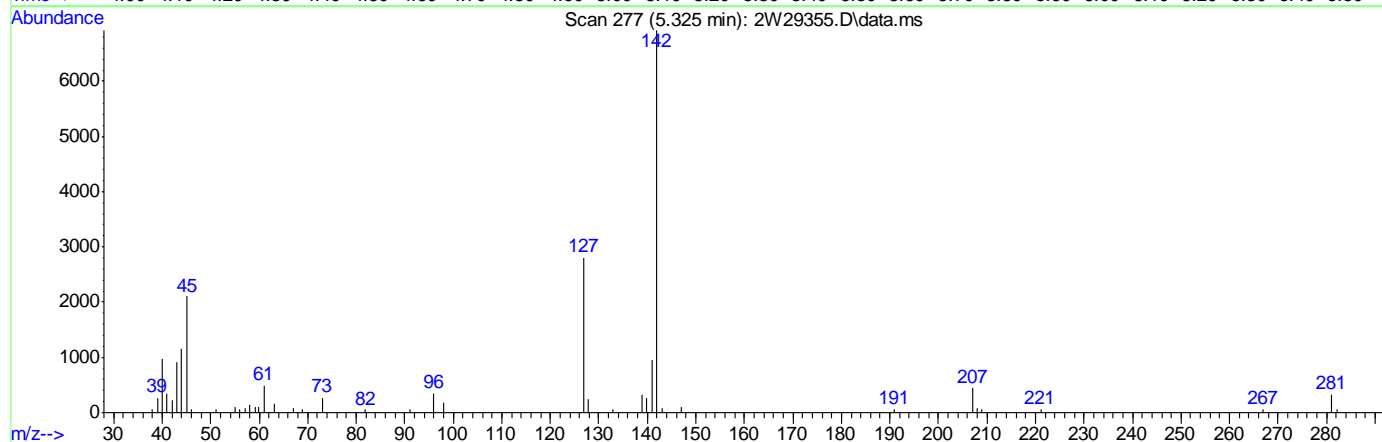
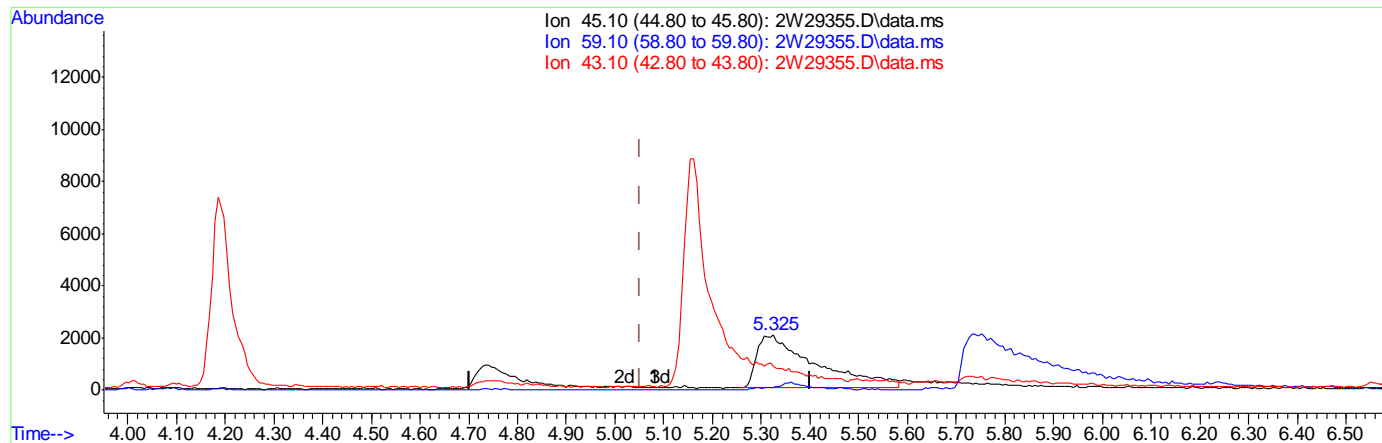
6.7.3.1

6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(17) ISOPROPYL ALCOHOL

5.325min (+0.274) 0.48PPBV m

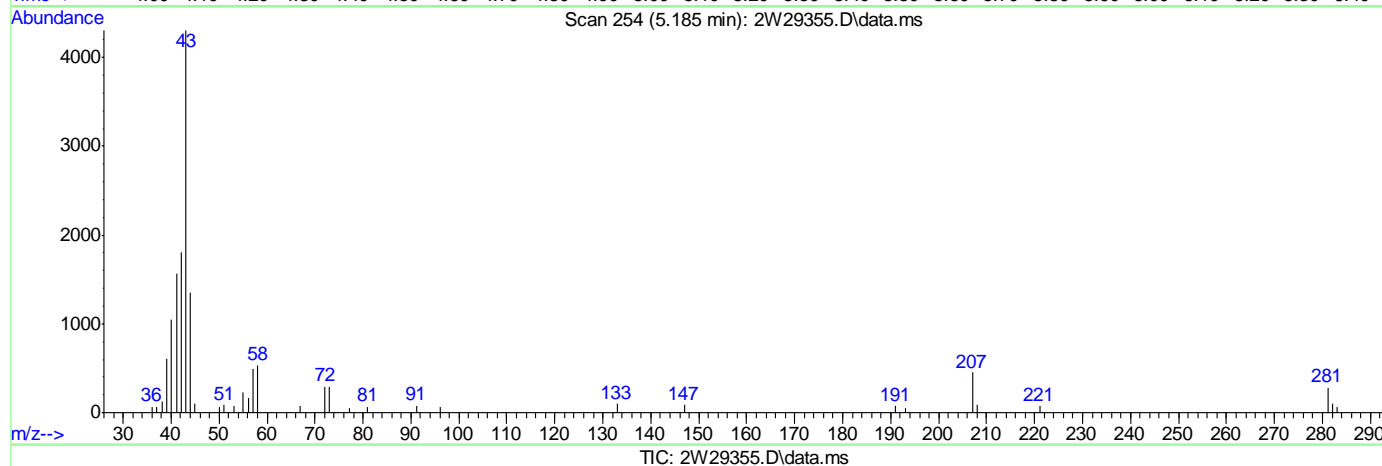
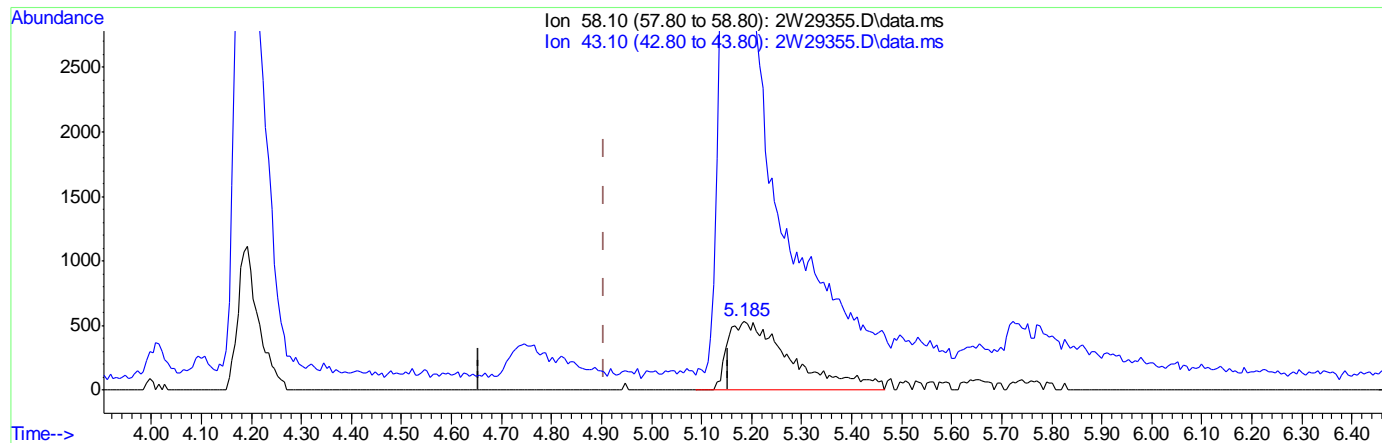
response 17086

Ion	Exp%	Act%
45.10	100	100
59.10	4.40	4.83
43.10	19.80	43.03#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(18) ACETONE

5.185min (+0.280) 0.52PPBV m

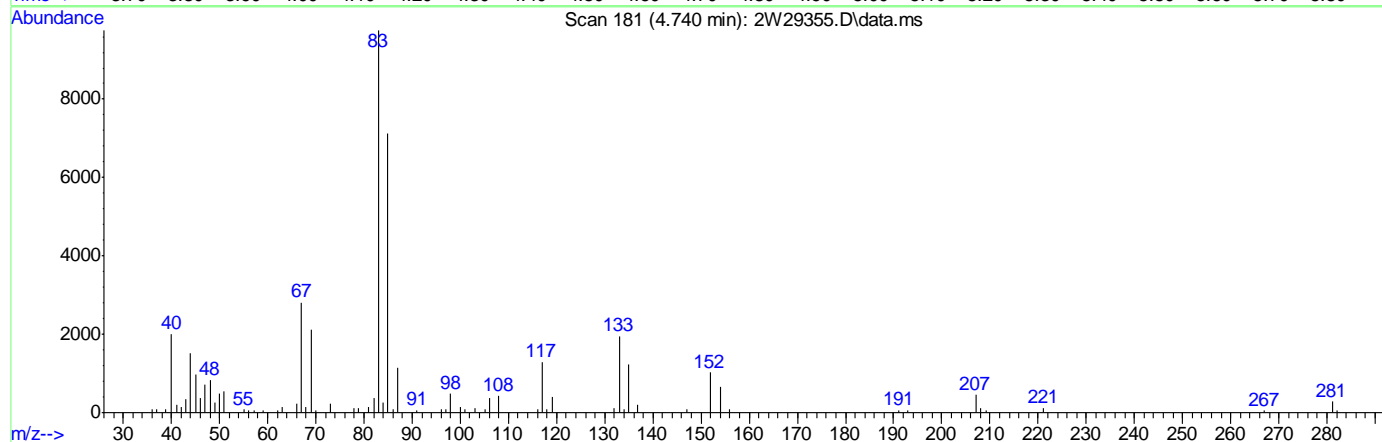
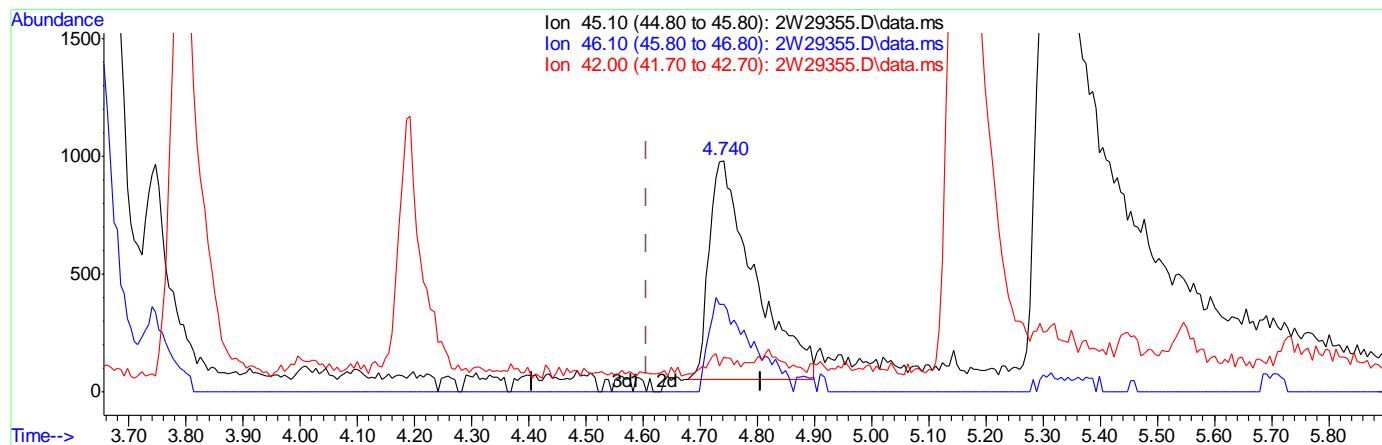
response 4752

Ion	Exp%	Act%
58.10	100	100
43.10	244.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(24) ETHANOL

4.740min (+0.134) 0.68PPBV m

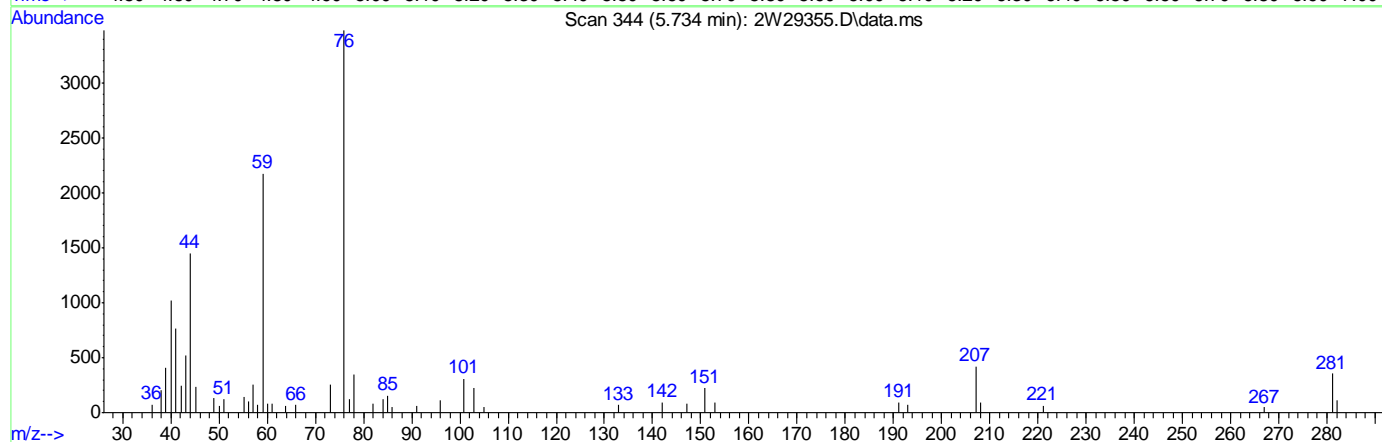
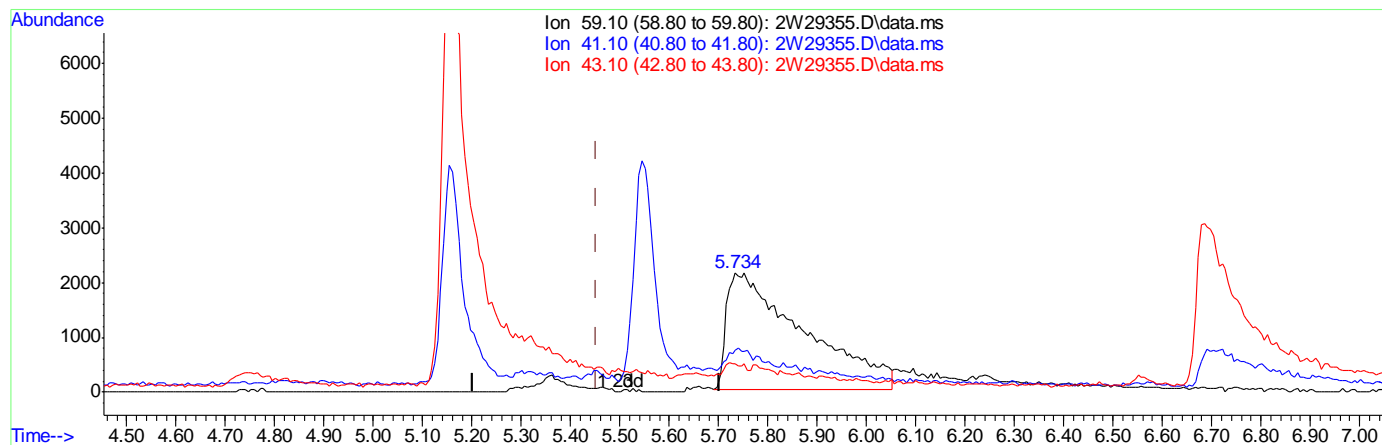
response 5117

Ion	Exp%	Act%
45.10	100	100
46.10	40.90	0.00#
42.00	8.30	0.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(30) TERTIARY BUTYL ALCOHOL

5.734min (+0.280) 0.51PPBV m

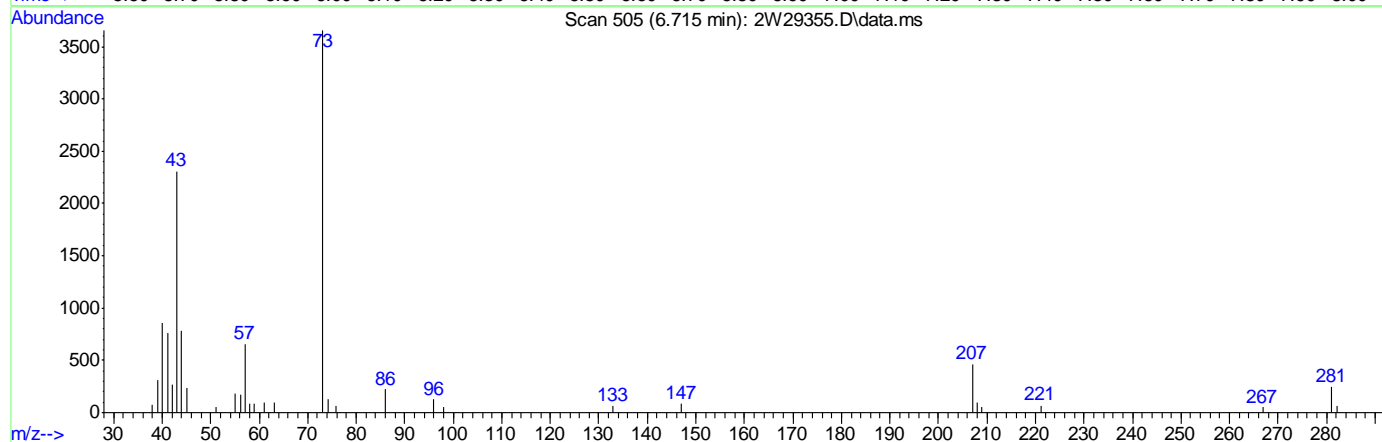
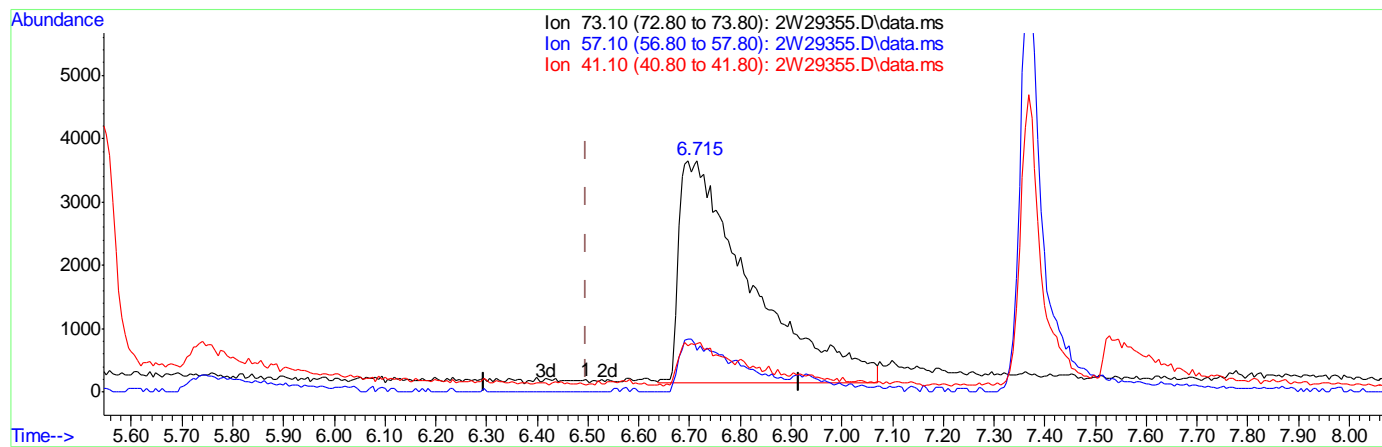
response 23098

Ion	Exp%	Act%
59.10	100	100
41.10	16.50	1.16
43.10	11.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(31) METHYL TERTIARY BUTYL ETHER

6.715min (+0.219) 0.48PPBV m

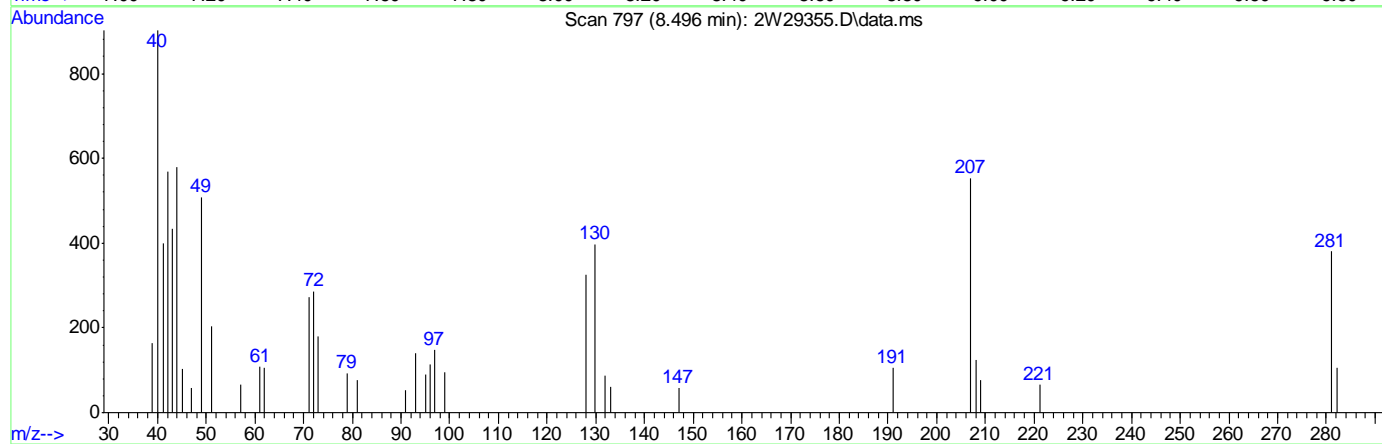
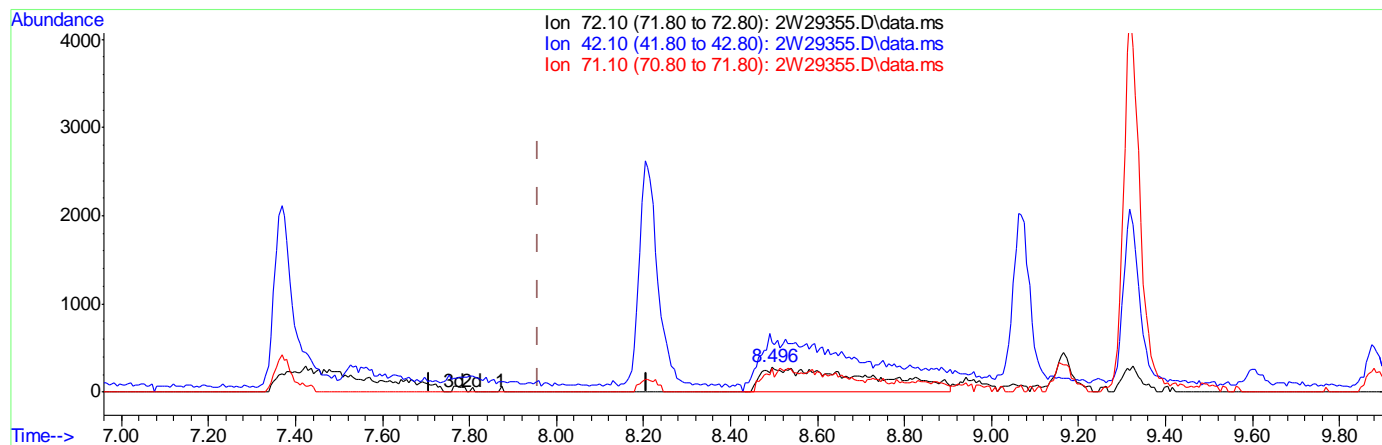
response 34512

Ion	Exp%	Act%
73.10	100	100
57.10	21.30	0.00#
41.10	17.10	0.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(32) TETRAHYDROFURAN

8.496min (+0.536) 0.52PPBV m

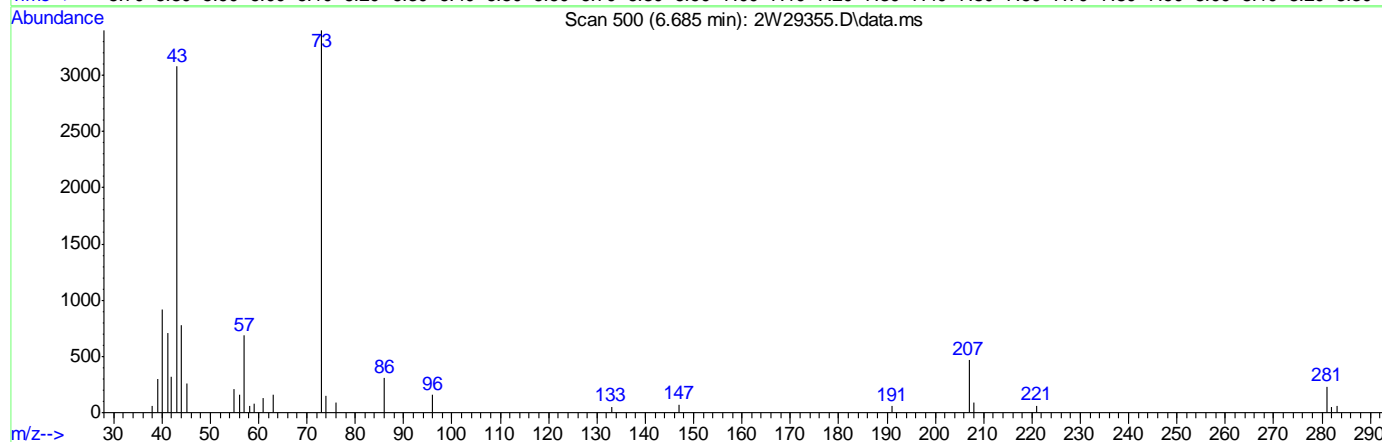
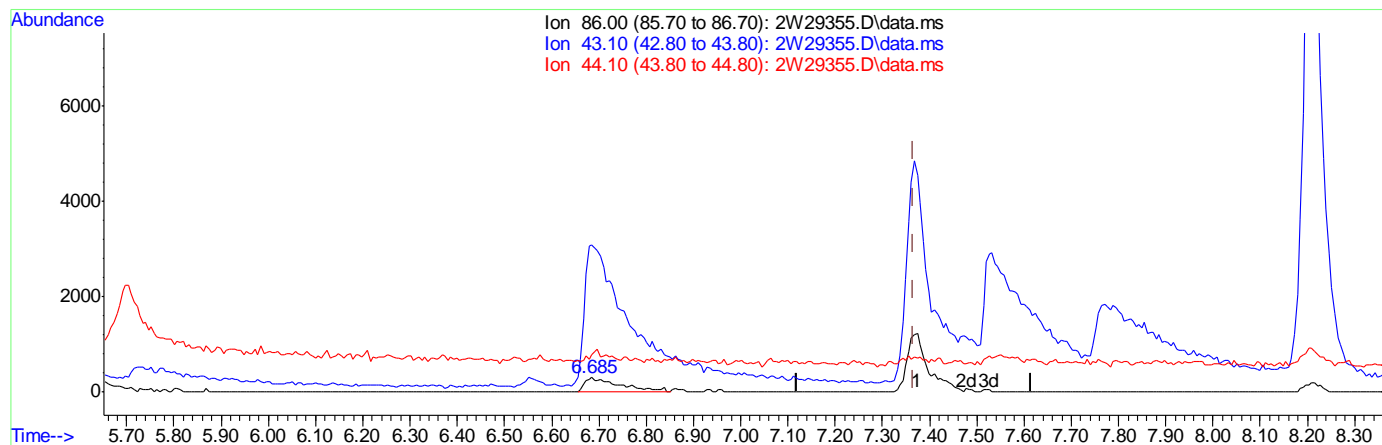
response 4952

Ion	Exp%	Act%
72.10	100	100
42.10	179.70	0.00#
71.10	92.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(34) VINYL ACETATE

6.685min (-0.683) 0.23PPBV m

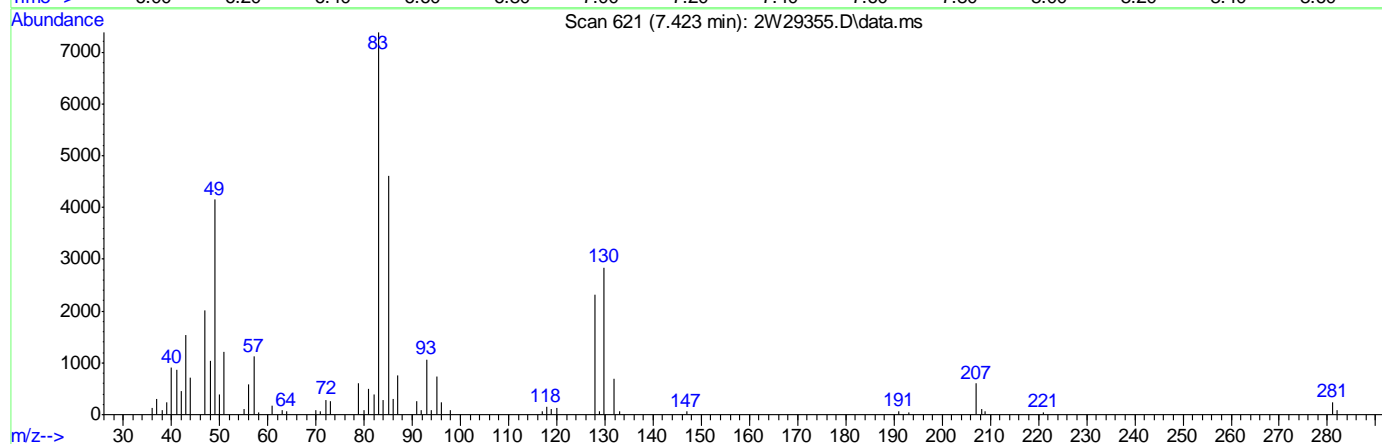
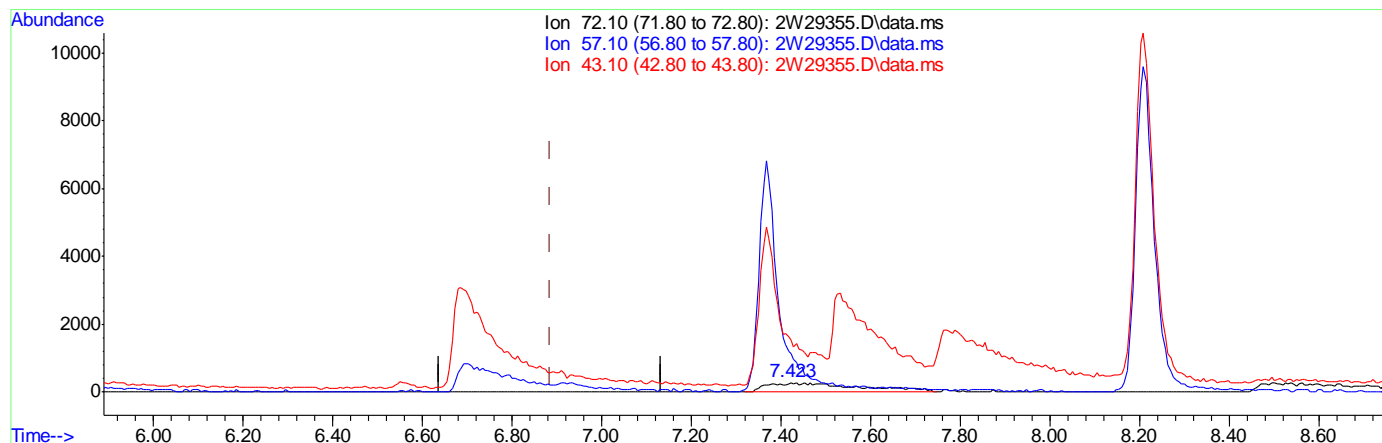
response 1623

Ion	Exp%	Act%
86.00	100	100
43.10	700.50	985.77#
44.10	43.90	27.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(36) METHYL ETHYL KETONE

7.423min (+0.536) 0.47PPBV m

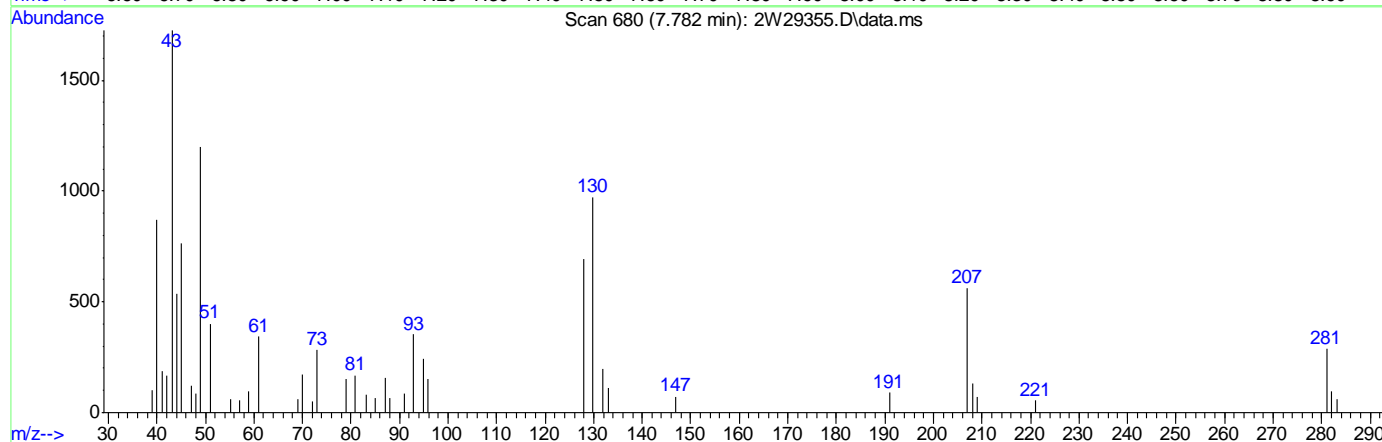
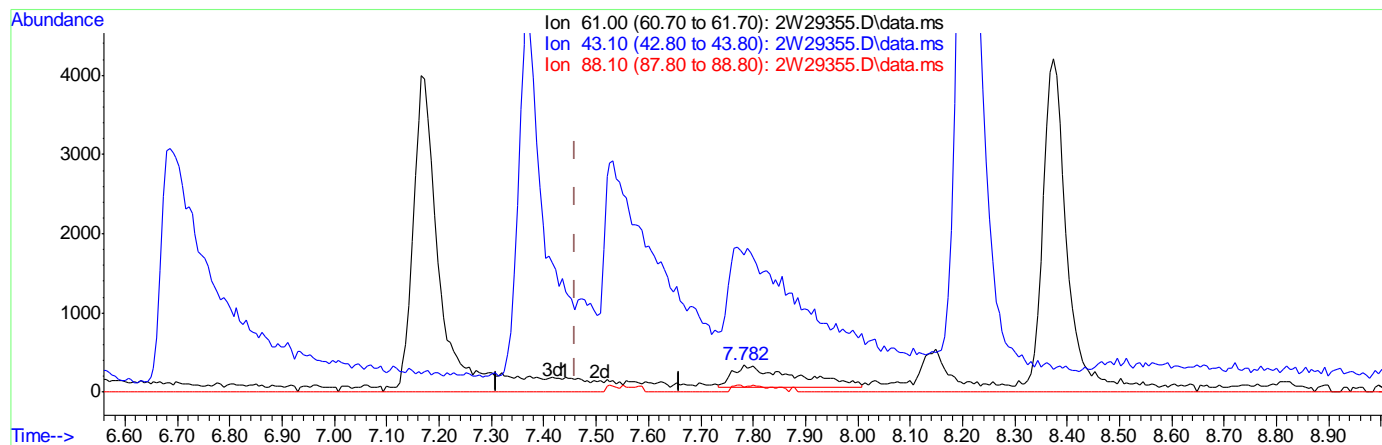
response 3919

Ion	Exp%	Act%
72.10	100	100
57.10	27.90	384.54#
43.10	295.20	529.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(38) ETHYL ACETATE

7.782min (+0.323) 0.43PPBV m

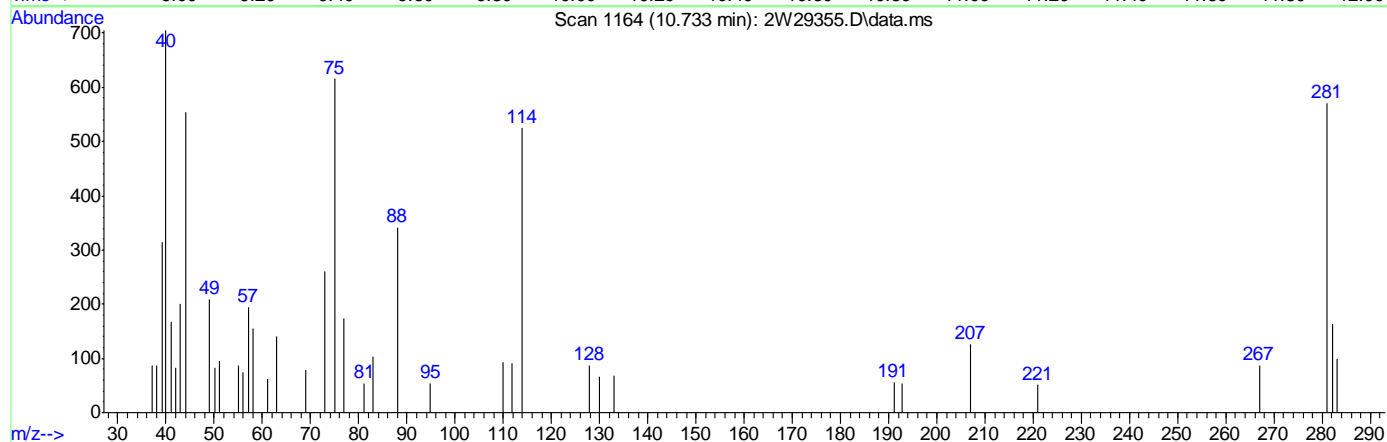
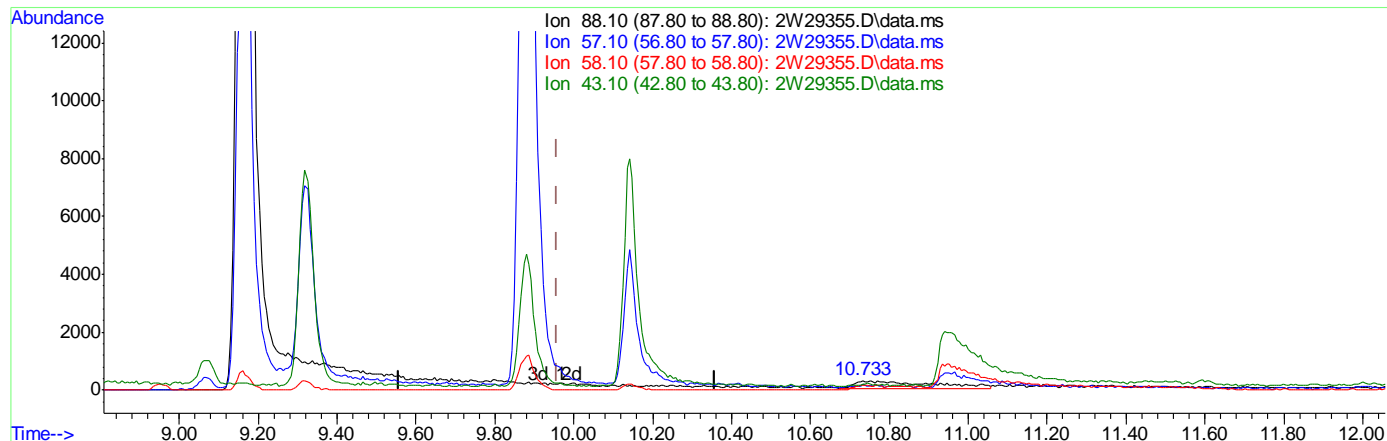
response 2378

Ion	Exp%	Act%
61.00	100	100
43.10	545.50	0.00#
88.10	34.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(52) 1,4-DIOXANE

10.733min (+0.774) 0.48PPBV m

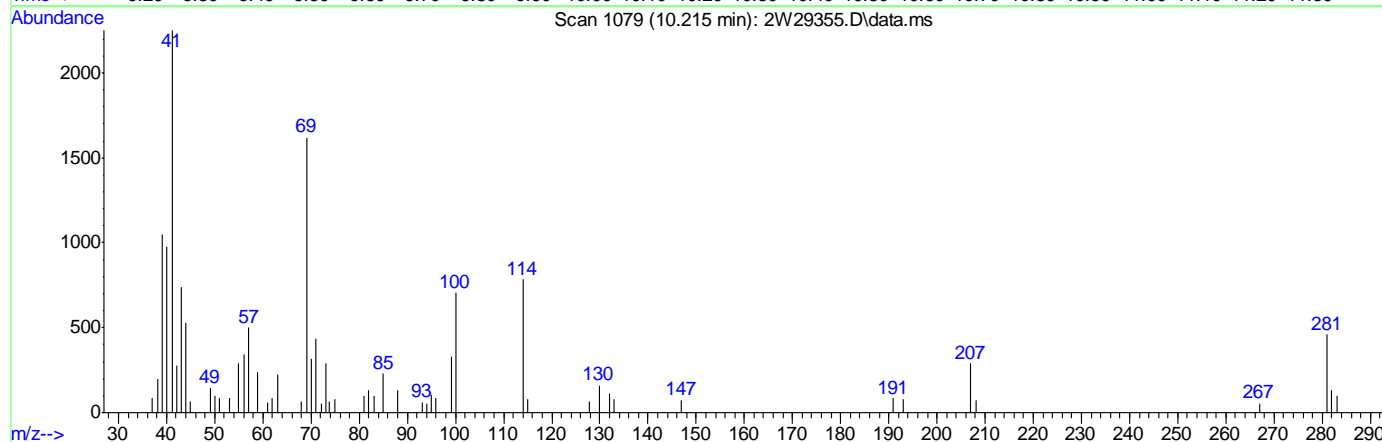
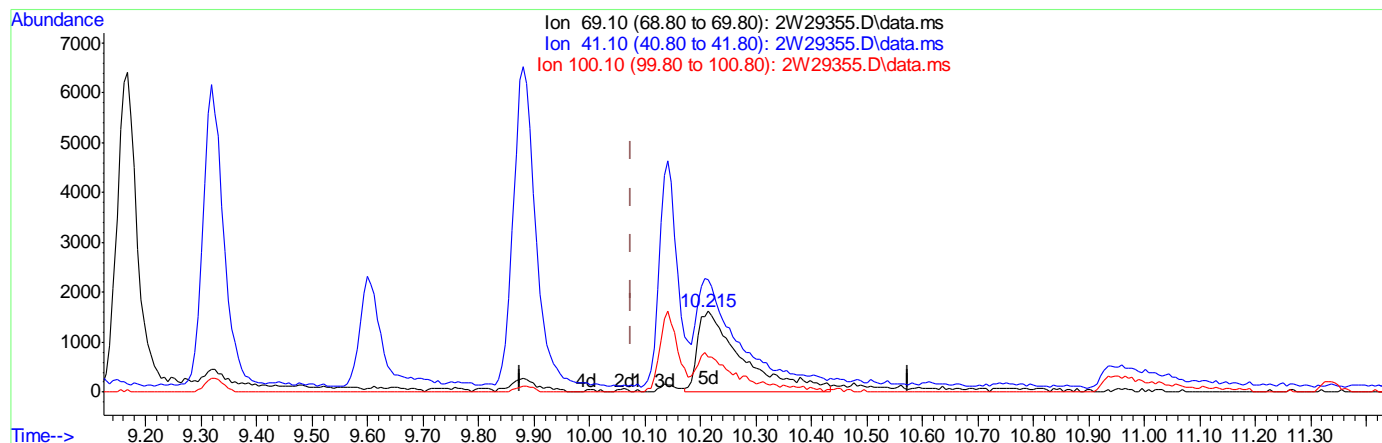
response 3926

Ion	Exp%	Act%
88.10	100	100
57.10	19.60	57.02#
58.10	63.20	45.32
43.10	20.70	58.77#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(53) METHYL METHACRYLATE

10.215min (+0.140) 0.39PPBV m

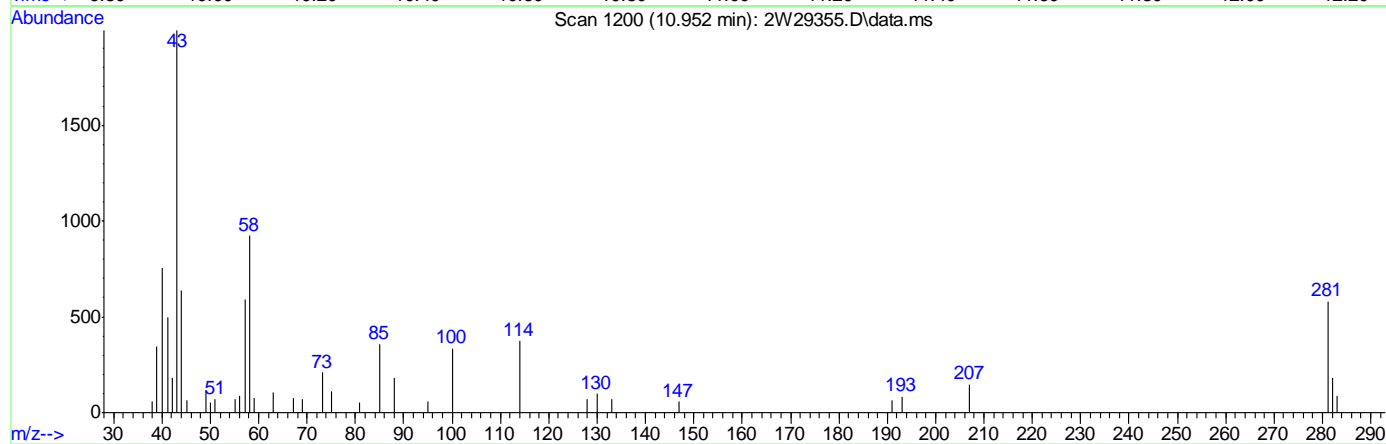
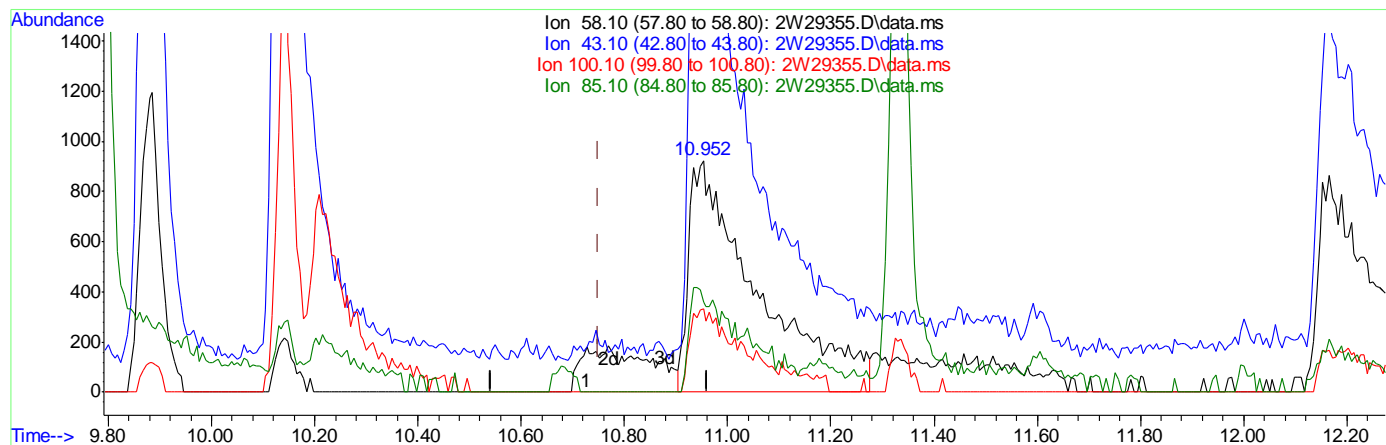
response 9160

Ion	Exp%	Act%
69.10	100	100
41.10	188.10	0.76#
100.10	87.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(56) METHYL ISOBUTYL KETONE

10.952min (+0.201) 0.46PPBV m

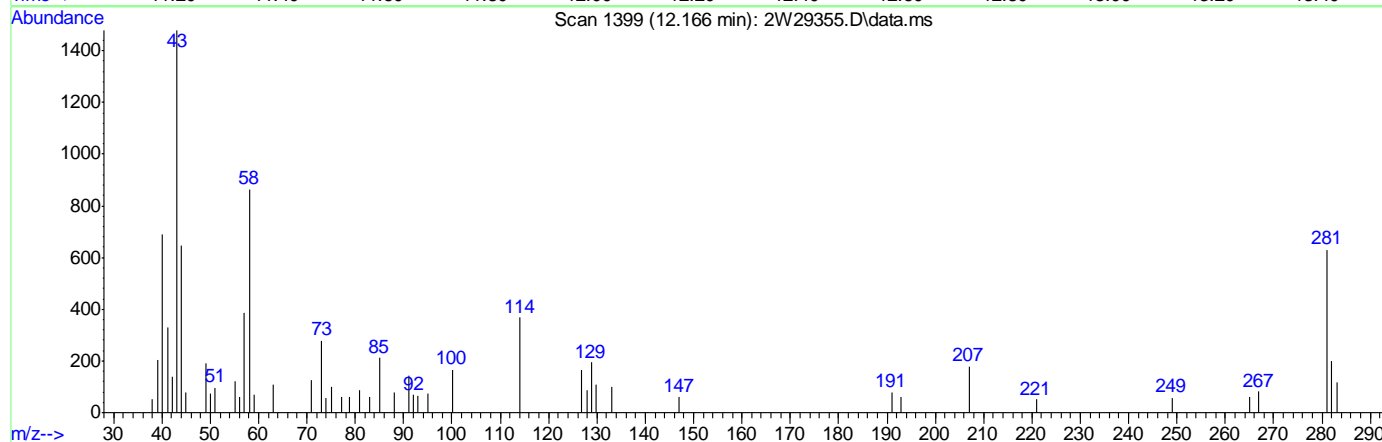
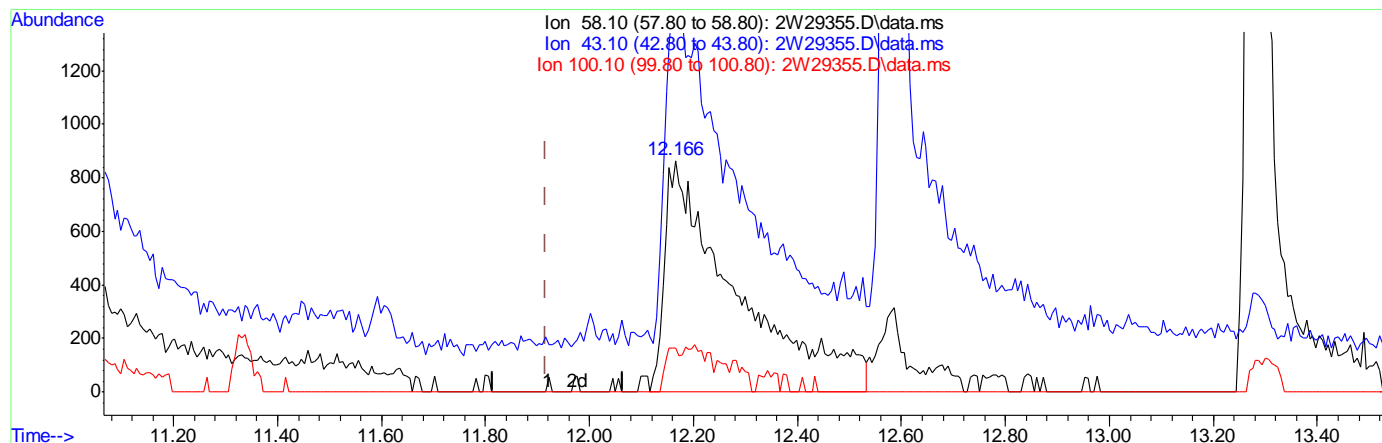
response 8506

Ion	Exp%	Act%
58.10	100	100
43.10	215.90	3.52#
100.10	47.10	0.00#
85.10	52.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(62) 2-HEXANONE

12.166min (+0.250) 0.49PPBV m

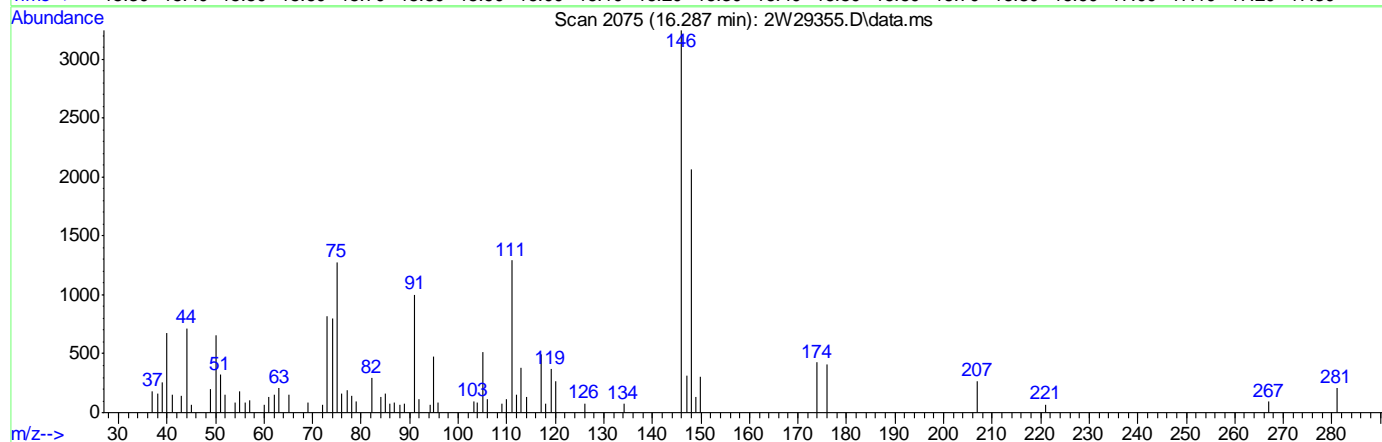
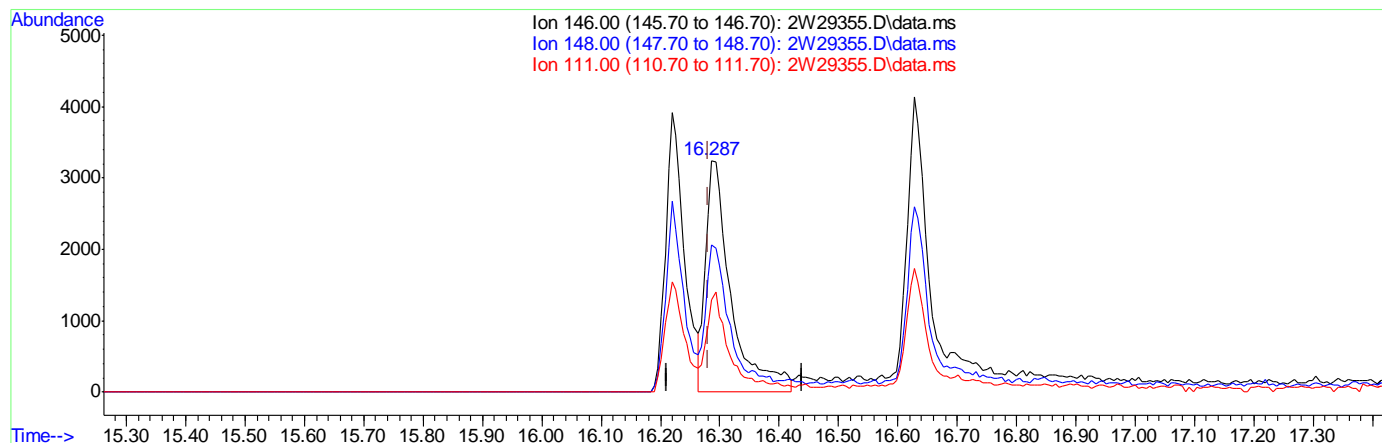
response 8206

Ion	Exp%	Act%
58.10	100	100
43.10	154.40	0.40#
100.10	26.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(86) p-DICHLOROBENZENE

16.287min (+0.006) 0.43PPBV m

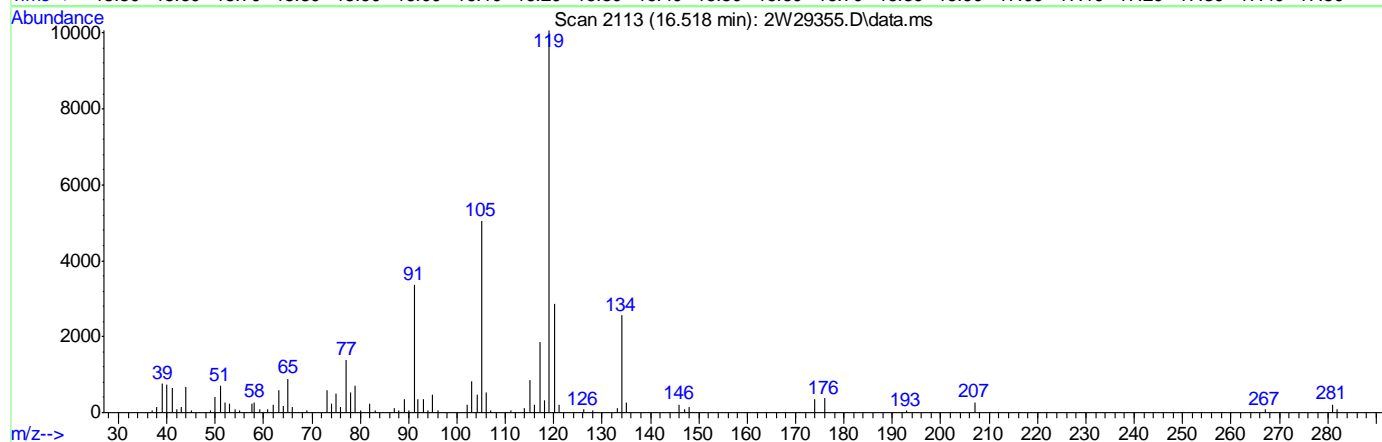
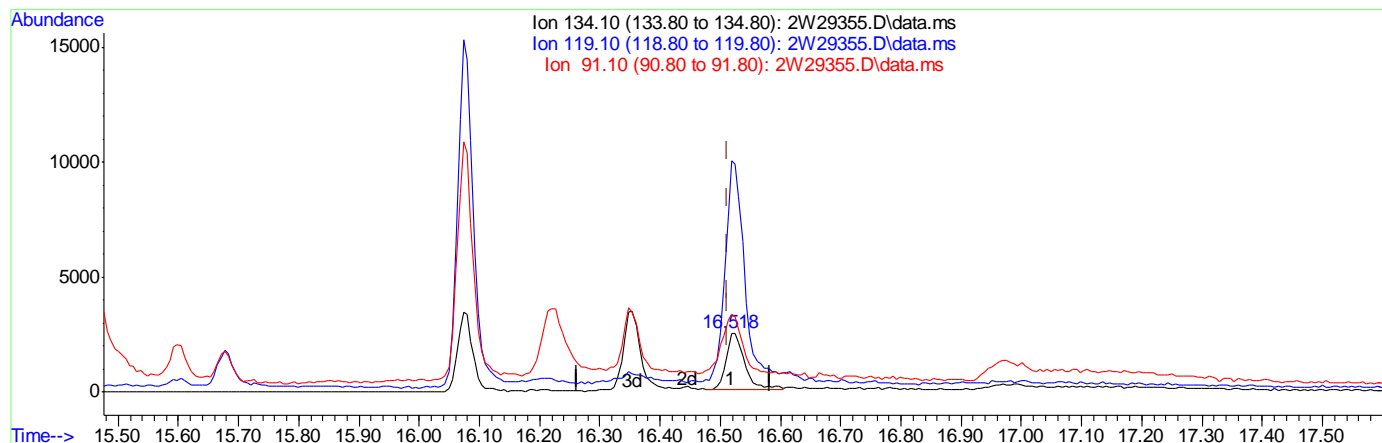
response 9716

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	49.32
111.00	38.40	32.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(88) p-ISOPROPYLTOLUENE

16.518min (+0.006) 0.38PPBV m

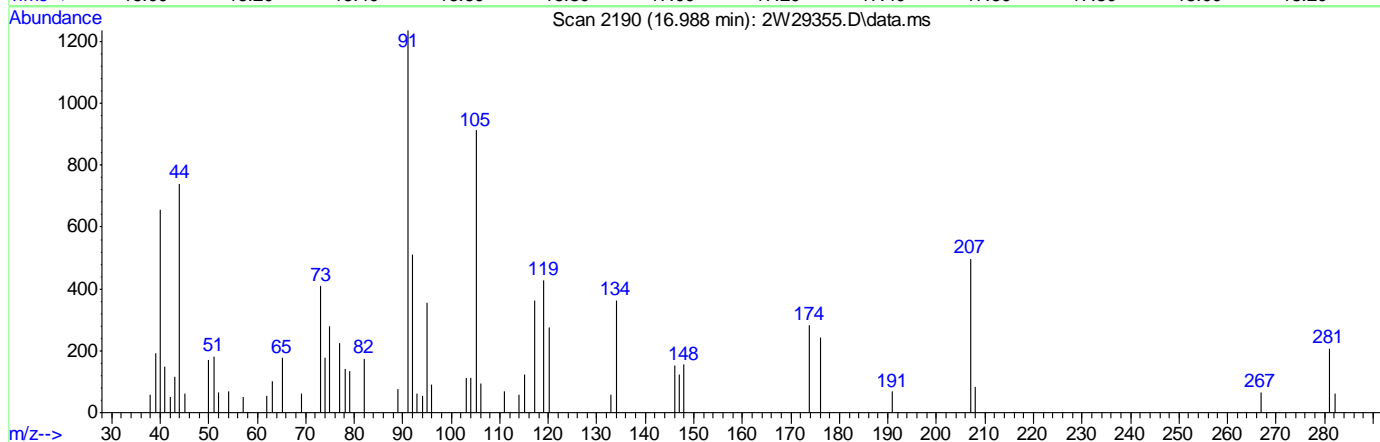
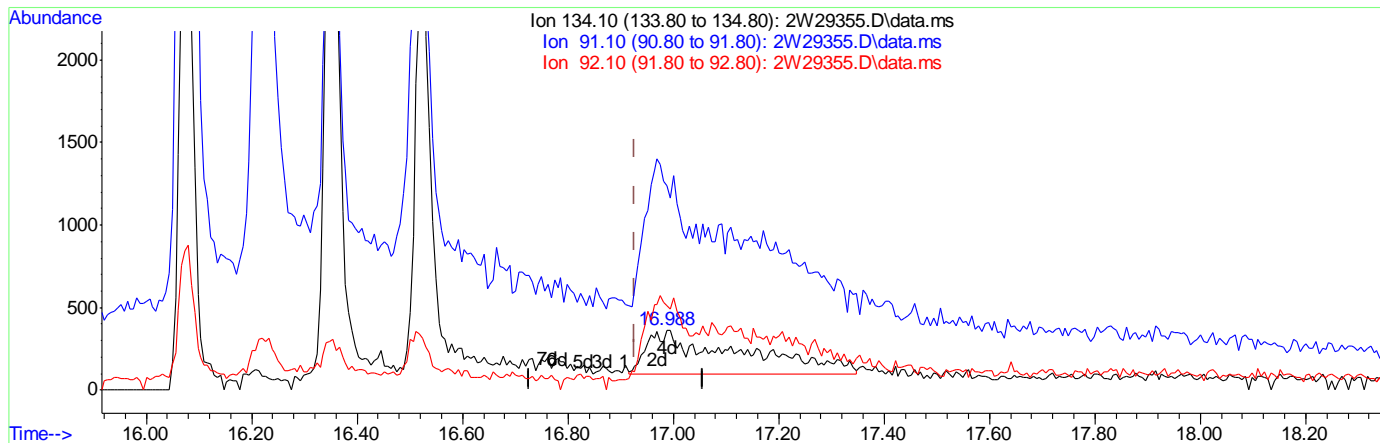
response 5405

Ion	Exp%	Act%
134.10	100	100
119.10	408.00	372.04
91.10	108.30	108.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29355.D\data.ms

(90) n-BUTYLBENZENE

16.988min (+0.061) 0.28PPBV m

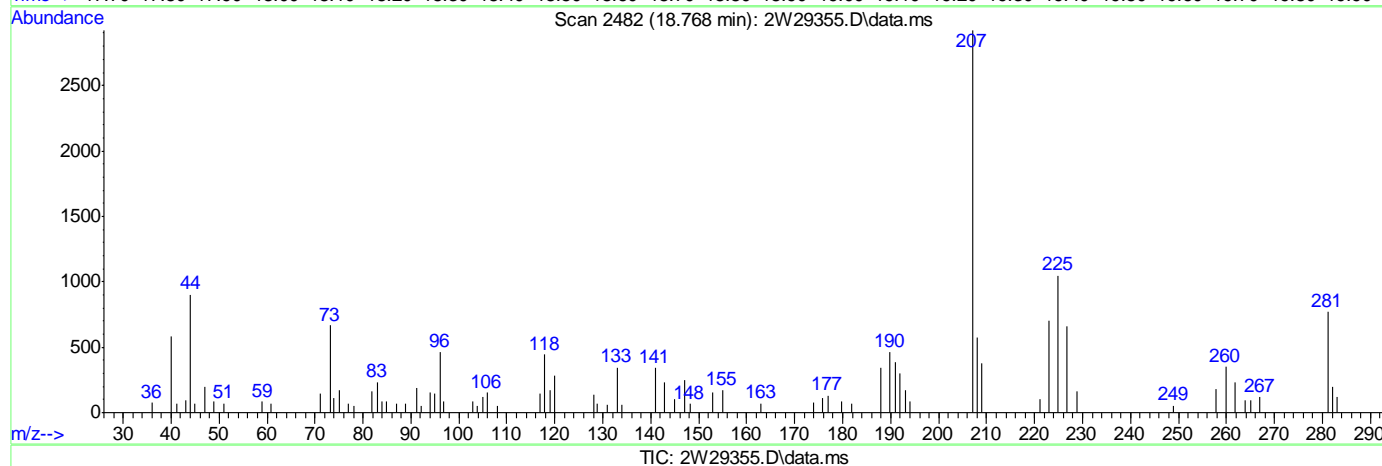
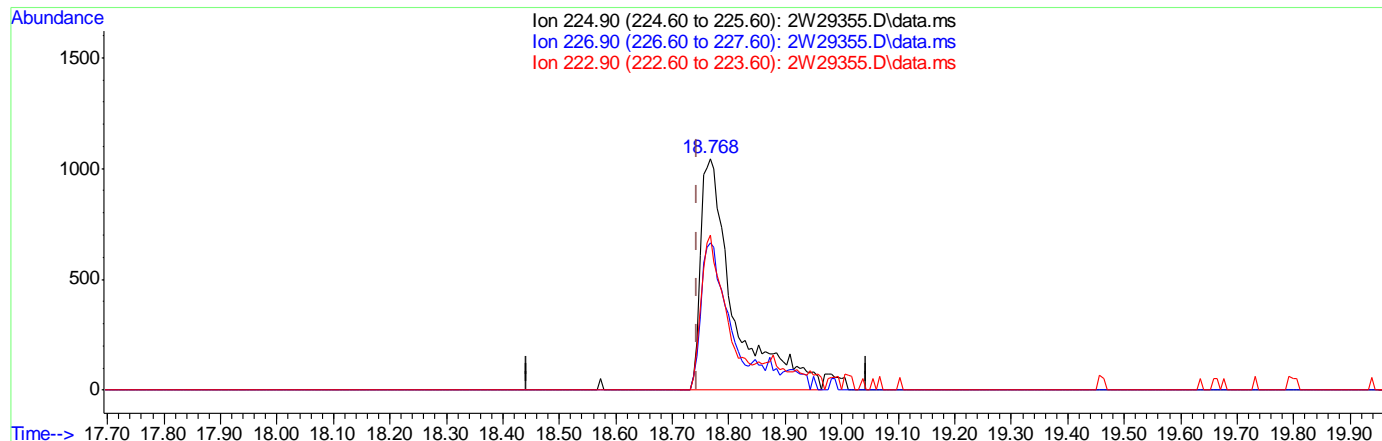
response 3156

Ion	Exp%	Act%
134.10	100	100
91.10	358.10	0.00#
92.10	197.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(91) HEXACHLOROBUTADIENE

18.768min (+0.024) 0.39PPBV m

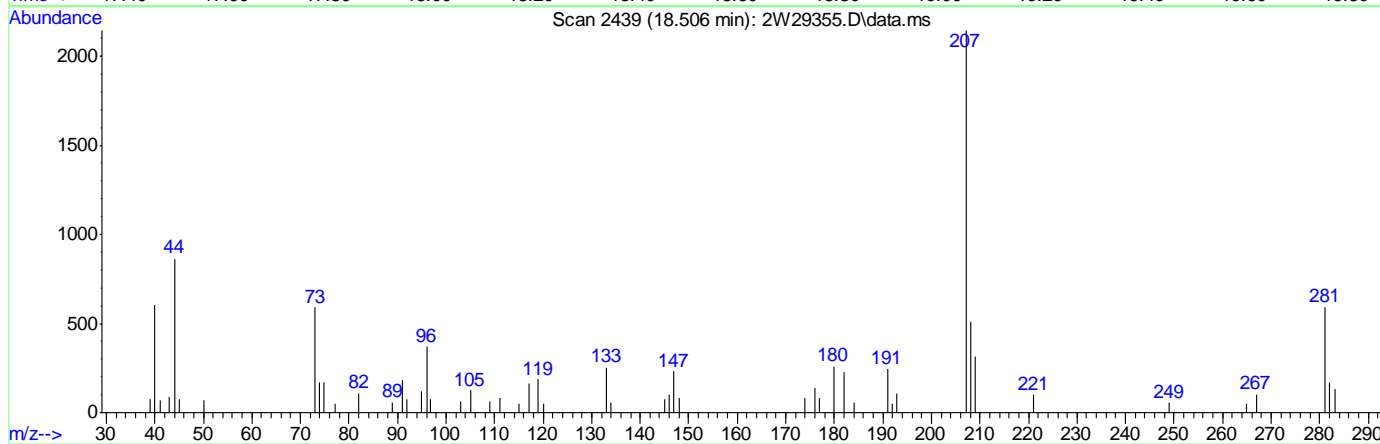
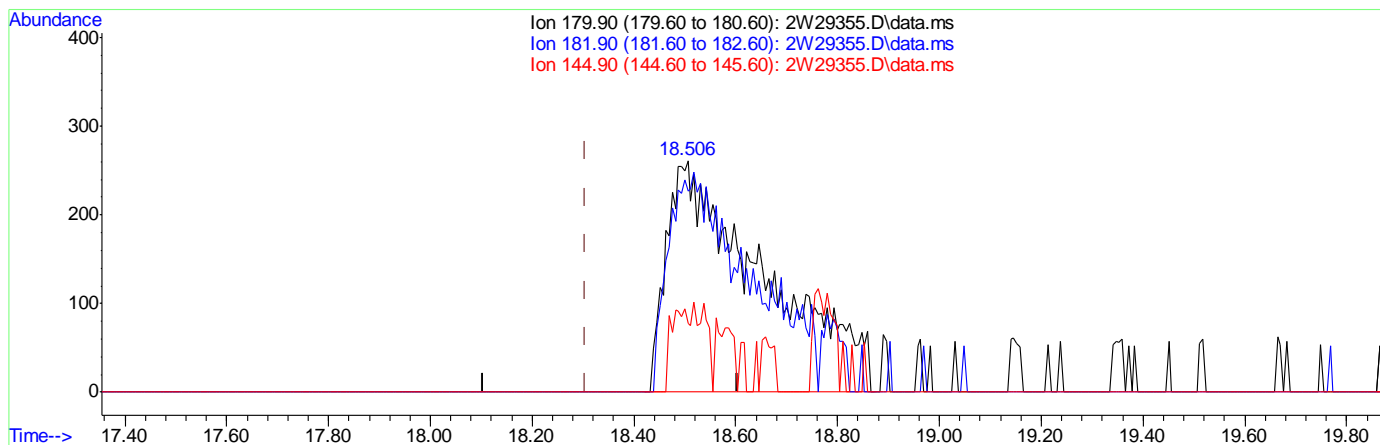
response 4269

Ion	Exp%	Act%
224.90	100	100
226.90	63.40	49.45
222.90	62.90	53.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(92) 1,2,4-TRICHLOROBENZENE

18.506min (+0.201) 0.54PPBV m

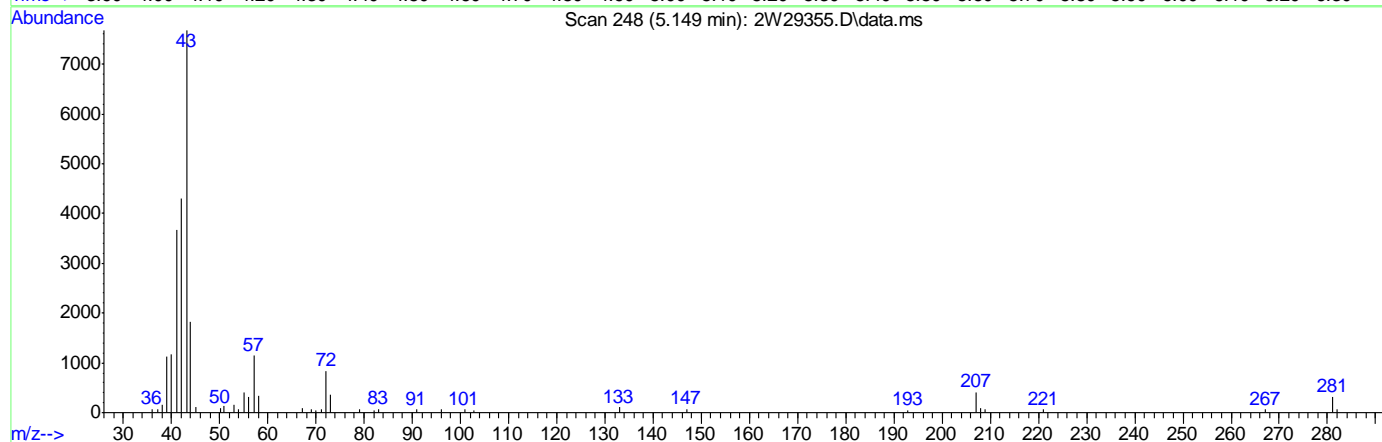
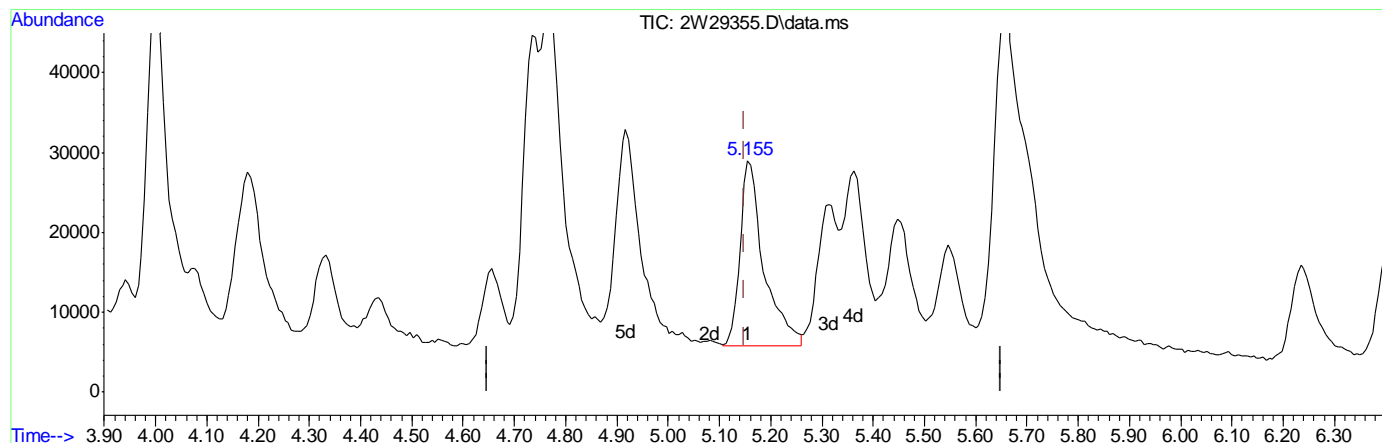
response 3444

Ion	Exp%	Act%
179.90	100	100
181.90	77.40	0.00#
144.90	26.20	7.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (0.000) 0.08PPBV m

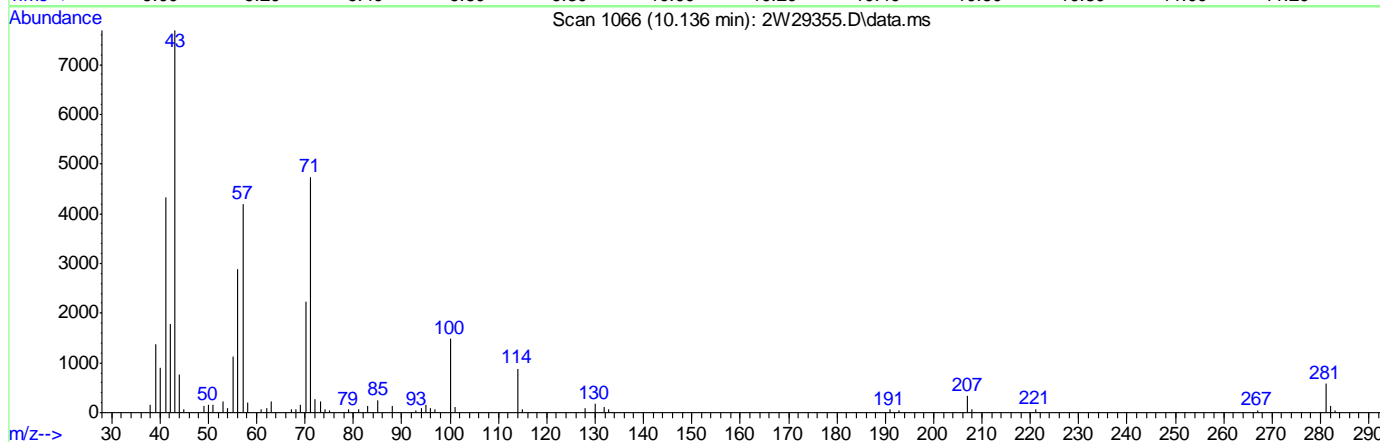
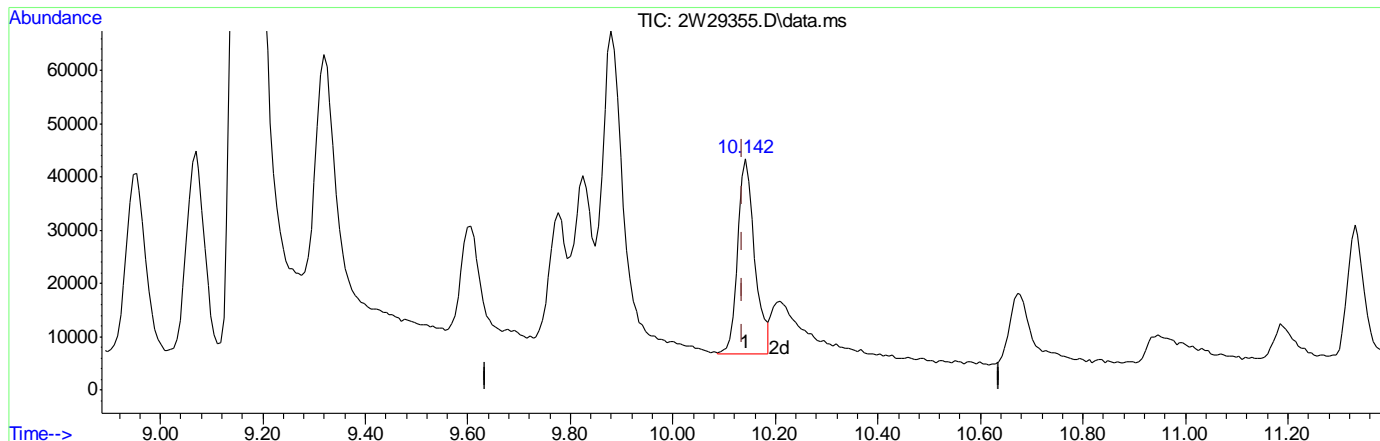
response 74131

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29355.D
Acq On : 21 Jan 2011 11:23 am
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:24:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.136min (0.000) 0.09PPBV m

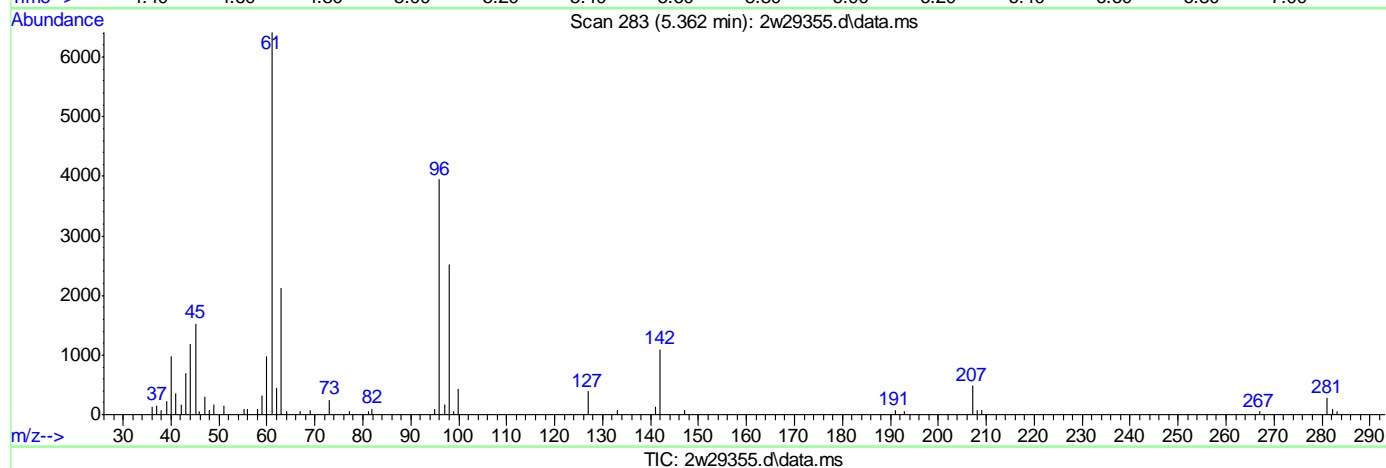
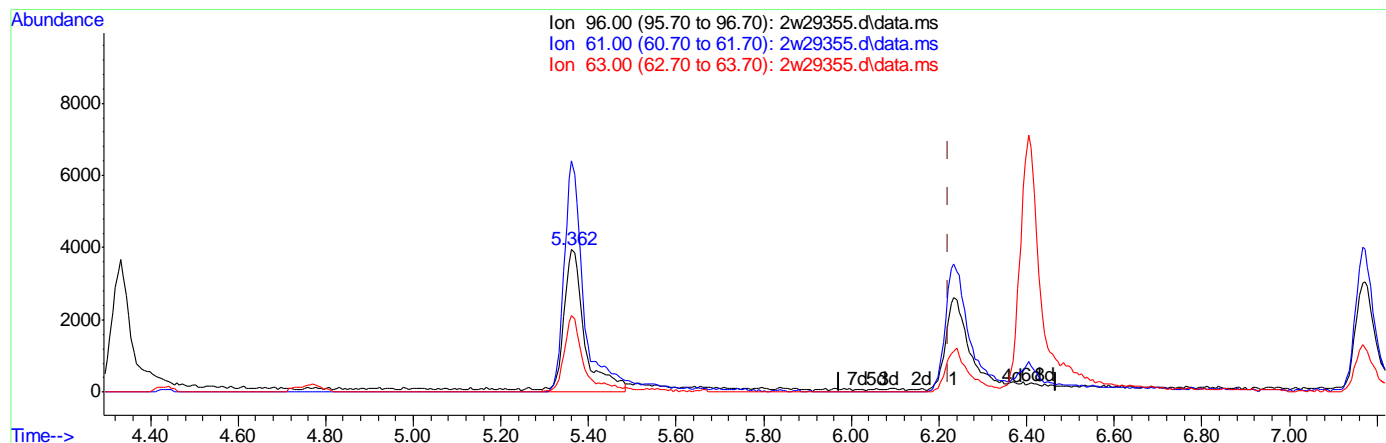
response 83904

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29355.d
Acq On : 21 Jan 2011 11:23 am
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 28 08:59:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(22) 1,1-DICHLOROETHYLENE

5.362min (-0.860) 0.56PPBV m

response 13021

Ion	Exp%	Act%
96.00	100	100
61.00	143.10	106.17#
63.00	47.60	33.85
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29356.d
Acq On : 21 Jan 2011 12:03 pm
Operator : YOUMINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.313	128	161738	10.00	PPBV	# 0.00
44) 1,4-DIFLUOROBENZENE	9.166	114	820410	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	417753	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.287	82	428712	10.00	PPBV	# 0.00

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.775	95	225797	5.16	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	103.20%

Target Compounds

Qvalue

3) DICHLORODIFLUOROMETHANE	3.832	85	1425696	15.96	PPBV	99
4) FREON 152A	3.741	65	339873	15.63	PPBV	96
5) CHLORODIFLUOROMETHANE	3.765	67	138087	16.45	PPBV	98
6) PROPYLENE	3.783	41	414135	16.51	PPBV	100
7) FREON 114	3.997	85	1691474	16.84	PPBV	97
8) CHLOROMETHANE	3.936	52	149730	16.16	PPBV	# 89
9) VINYL CHLORIDE	4.070	62	576483	17.20	PPBV	100
10) 1,3-BUTADIENE	4.155	54	440178	18.05	PPBV	92
11) n-BUTANE	4.186	43	858399	17.02	PPBV	# 95
12) BROMOMETHANE	4.326	94	534246	17.53	PPBV	99
13) CHLOROETHANE	4.429	64	328726	18.04	PPBV	98
14) FREON 123	4.728	83	1471546	17.52	PPBV	# 75
15) FREON 123A	4.765	117	827592	17.33	PPBV	86
16) TRICHLOROFLUOROMETHANE	4.917	101	1462836	16.69	PPBV	99
17) ISOPROPYL ALCOHOL	5.015	45	942444	20.85	PPBV	94
18) ACETONE	4.862	58	240174	20.76	PPBV	92
19) PENTANE	5.155	42	578424	17.34	PPBV	98
20) TVHC as EQUIV PENTANE	5.149	TIC	2856422m	2.39	PPBV	
21) IODOMETHANE	5.307	142	1372982	18.81	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.356	96	569824m	19.37	PPBV	
23) CARBON DISULFIDE	5.691	76	1436365	17.39	PPBV	95
24) ETHANOL	4.576	45	173610	18.36	PPBV	99
25) BROMOETHENE	4.649	106	539610	18.67	PPBV	99
26) METHYLENE CHLORIDE	5.441	84	462040	18.13	PPBV	88
27) 3-CHLOROPROPENE	5.533	76	261310	21.50	PPBV	# 56
28) FREON 113	5.655	151	940289	17.46	PPBV	95
29) TRANS-1,2-DICHLOROETHY...	6.222	96	546452	19.29	PPBV	92
30) TERTIARY BUTYL ALCOHOL	5.423	59	1223972	21.42	PPBV	96
31) METHYL TERTIARY BUTYL ...	6.478	73	1771010	19.65	PPBV	96
32) TETRAHYDROFURAN	7.892	72	267025	22.20	PPBV	# 87
33) HEXANE	7.368	57	897970	18.01	PPBV	94
34) VINYL ACETATE	6.557	86	128788m	14.20	PPBV	
35) 1,1-DICHLOROETHANE	6.405	63	1056211	18.61	PPBV	99
36) METHYL ETHYL KETONE	6.825	72	250920	23.70	PPBV	# 64
37) cis-1,2-DICHLOROETHYLENE	7.161	96	573146	21.36	PPBV	90
38) ETHYL ACETATE	7.423	61	151554	21.72	PPBV	# 56
39) CHLOROFORM	7.435	83	1194146	19.66	PPBV	99
40) 2,4-DIMETHYLPENTANE	8.209	57	1221331	17.84	PPBV	95
41) 1,1,1-TRICHLOROETHANE	8.374	97	1295521	17.77	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29356.d
Acq On : 21 Jan 2011 12:03 pm
Operator : YOUMINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.953	117	1313522	17.71	PPBV	100
43) 1,2-DICHLOROETHANE	8.130	62	674811	21.87	PPBV	99
45) BENZENE	8.813	78	1782303	19.66	PPBV	98
46) CYCLOHEXANE	9.069	56	1015589	18.03	PPBV #	78
47) 2,3-DIMETHYLPENTANE	9.325	71	478827	18.00	PPBV	92
48) TRICHLOROETHYLENE	9.825	95	731278	19.39	PPBV	94
49) 1,2-DICHLOROPROPANE	9.599	63	672467	21.33	PPBV	98
50) BROMODICHLOROMETHANE	9.776	83	1204268	20.63	PPBV	96
51) 2,2,4-TRIMETHYLPENTANE	9.880	57	3282029	18.58	PPBV	97
52) 1,4-DIOXANE	9.892	88	348068	34.95	PPBV #	1
53) METHYL METHACRYLATE	10.069	69	649219	23.20	PPBV #	34
54) HEPTANE	10.142	43	1029463	19.54	PPBV	90
55) TVHC as EQUIV HEPTANE	10.136	TIC	4820599m	4.36	PPBV	
56) METHYL ISOBUTYL KETONE	10.733	58	512141	23.11	PPBV	89
57) cis-1,3-DICHLOROPROPENE	10.660	75	904865	22.30	PPBV	91
58) TOLUENE	11.599	92	1230041	21.68	PPBV	98
59) trans-1,3-DICHLOROPROPENE	11.172	75	678280	28.16	PPBV	92
60) 1,1,2-TRICHLOROETHANE	11.324	83	590191	22.28	PPBV	97
62) 2-HEXANONE	11.904	58	580184	23.66	PPBV	90
63) TETRACHLOROETHYLENE	12.678	164	715962	18.40	PPBV	99
64) DIBROMOCHLOROMETHANE	11.983	129	1136690	20.13	PPBV	100
65) 1,2-DIBROMOETHANE	12.214	107	836791	21.49	PPBV	100
66) OCTANE	12.580	43	1415175	19.49	PPBV	90
67) 1,1,1,2-TETRACHLOROETHANE	13.312	131	922051	18.31	PPBV #	56
68) CHLOROBENZENE	13.330	112	1365144	19.64	PPBV	96
69) ETHYLBENZENE	13.702	91	2579630	20.36	PPBV	98
70) m,p-XYLENE	13.879	106	1967220	41.64	PPBV	95
71) o-XYLENE	14.330	106	963588	20.58	PPBV	94
72) STYRENE	14.226	104	1235833	24.08	PPBV	97
73) NONANE	14.580	43	1348187	21.89	PPBV	92
74) BROMOFORM	13.915	173	951927	20.92	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.318	83	1246362	20.23	PPBV	99
77) ISOPROPYLBENZENE	14.921	105	2884613	20.94	PPBV	98
78) 2-CHLOROTOLUENE	15.391	126	593858	21.82	PPBV #	1
79) n-PROPYLBENZENE	15.439	120	697999	22.23	PPBV #	30
80) 4-ETHYLTOLUENE	15.592	105	2371317	24.39	PPBV	98
81) 1,3,5-TRIMETHYLBENZENE	15.671	105	2120373	23.69	PPBV	97
82) TERT-BUTYLBENZENE	16.074	134	503414	22.87	PPBV	89
83) 1,2,4-TRIMETHYLBENZENE	16.080	105	1900649	24.46	PPBV	95
84) m-DICHLOROBENZENE	16.214	146	829577	25.60	PPBV	99
85) BENZYL CHLORIDE	16.202	91	1051462	26.02	PPBV	97
86) p-DICHLOROBENZENE	16.281	146	800726	24.50	PPBV	99
87) SEC-BUTYLBENZENE	16.348	134	583076	22.25	PPBV	92
88) p-ISOPROPYLTOLUENE	16.512	134	553699	26.51	PPBV	95
89) o-DICHLOROBENZENE	16.622	146	793766	24.55	PPBV	99
90) n-BUTYLBENZENE	16.927	134	379376	22.72	PPBV	89
91) HEXACHLOROBUTADIENE	18.744	225	358638	22.26	PPBV	99
92) 1,2,4-TRICHLOROBENZENE	18.299	180	201923	21.75	PPBV	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29356.d
Acq On : 21 Jan 2011 12:03 pm
Operator : YOU MINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

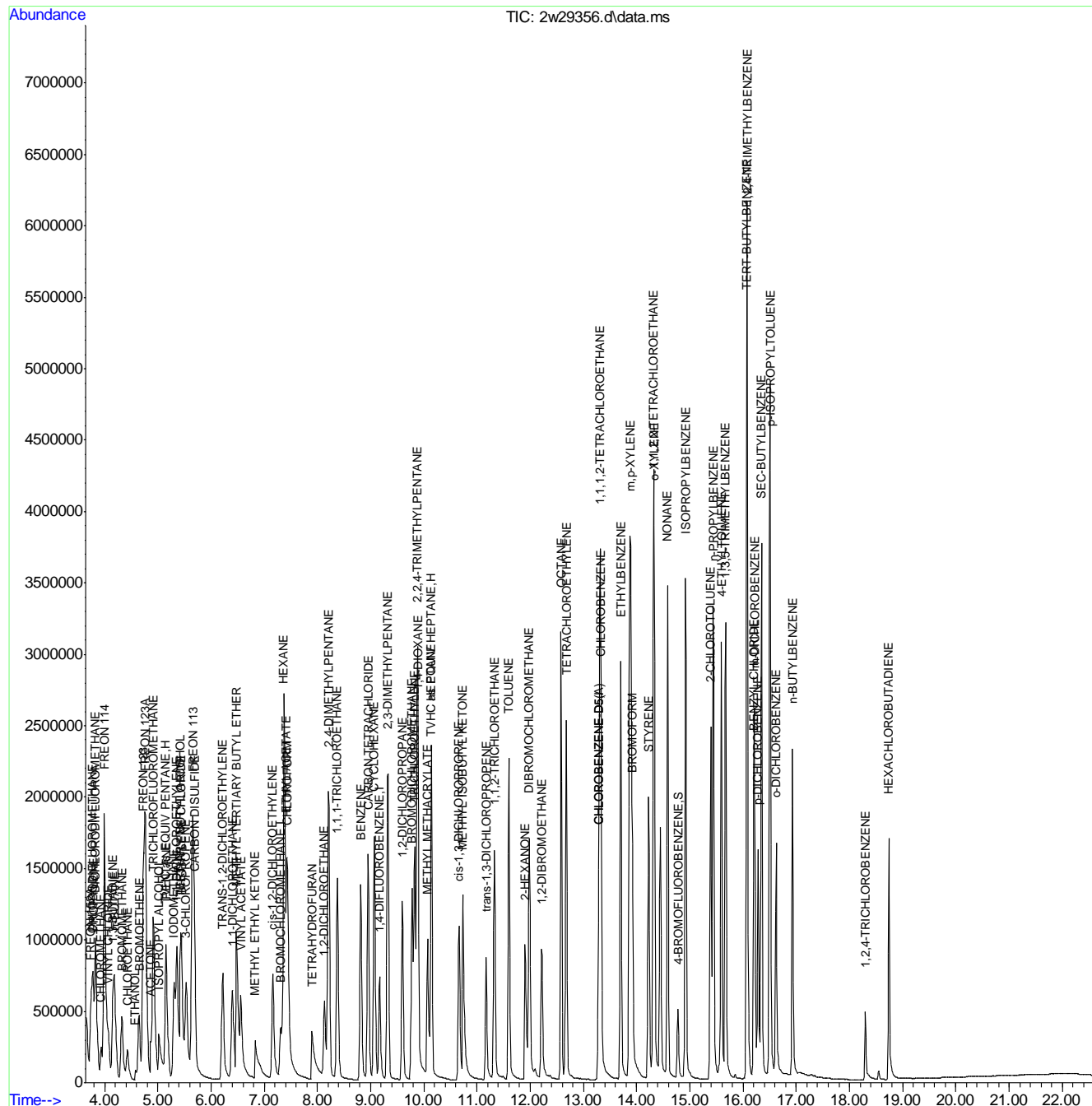
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29356.d
 Acq On : 21 Jan 2011 12:03 pm
 Operator : YOU MINH
 Sample : IC1240-20
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:43 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
 Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Mon Jan 24 10:22:56 2011
 Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V2W1240-IC1240

Method:

TO-15

Lab FileID:

2W29356.D

Analyst approved:

01/25/11 15:48 Li Yuan

Injection Time:

01/21/11 12:03

Supervisor approved:

01/28/11 14:12 Jessica Reitan-Chu

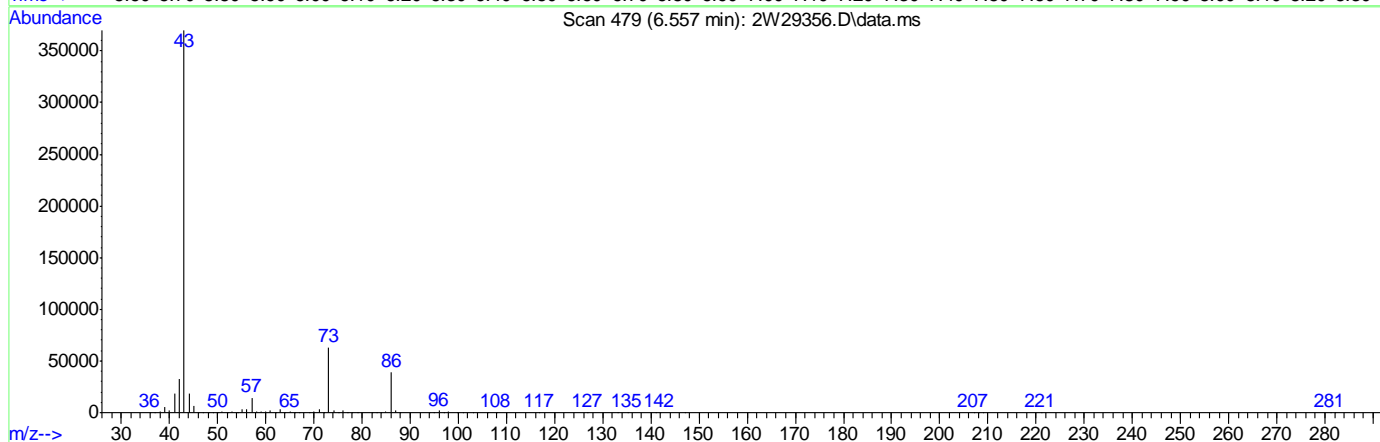
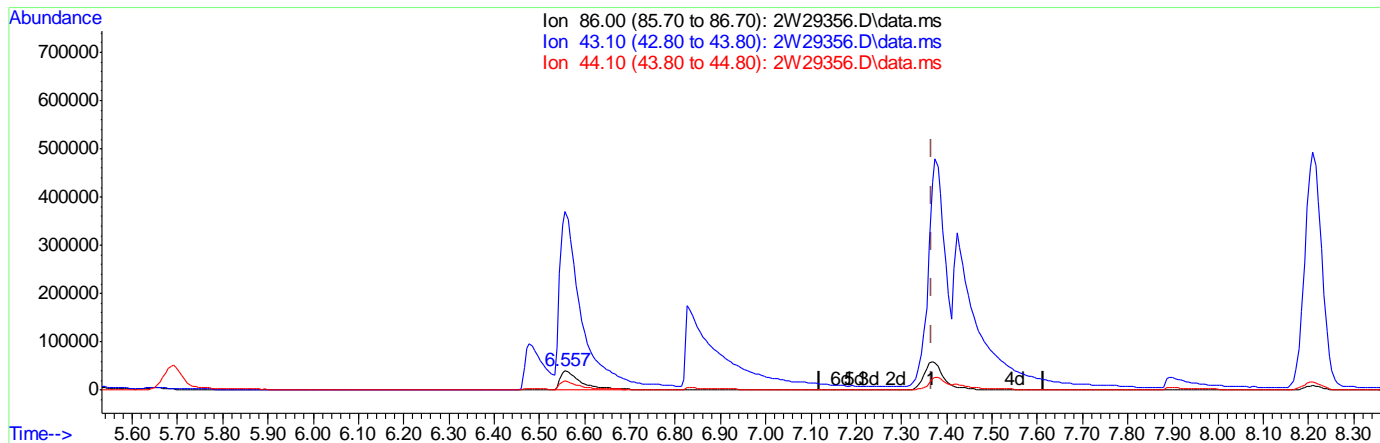
Parameter	CAS	Sig#	R.T. (min.)	Reason
Vinyl Acetate	108-05-4		6.56	Missed peak

6.7.4.1
6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29356.D
Acq On : 21 Jan 2011 12:03 pm
Operator : YOUMINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:25:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29356.D\data.ms

(34) VINYL ACETATE

6.557min (-0.811) 14.20PPBV m

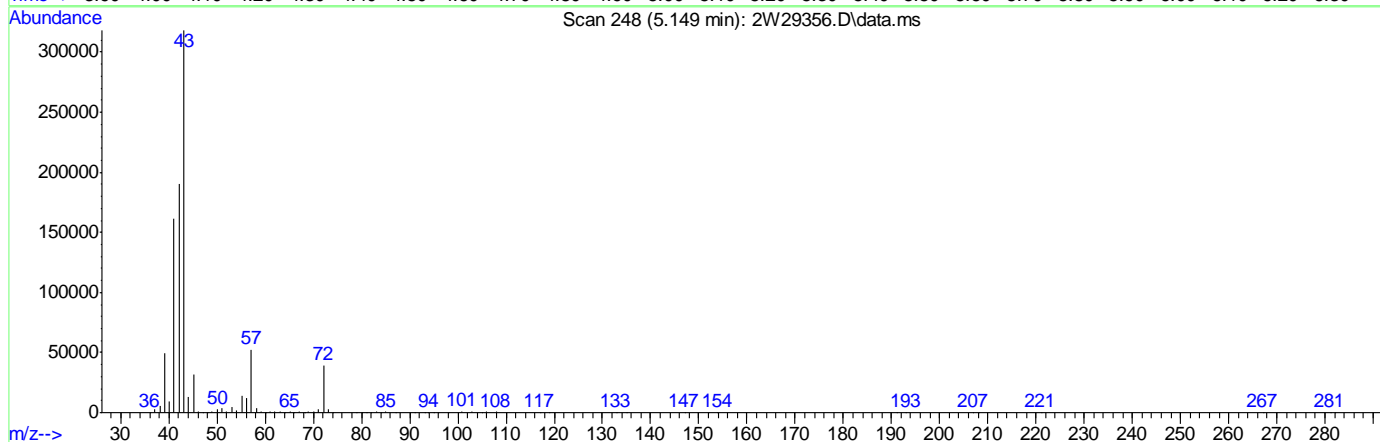
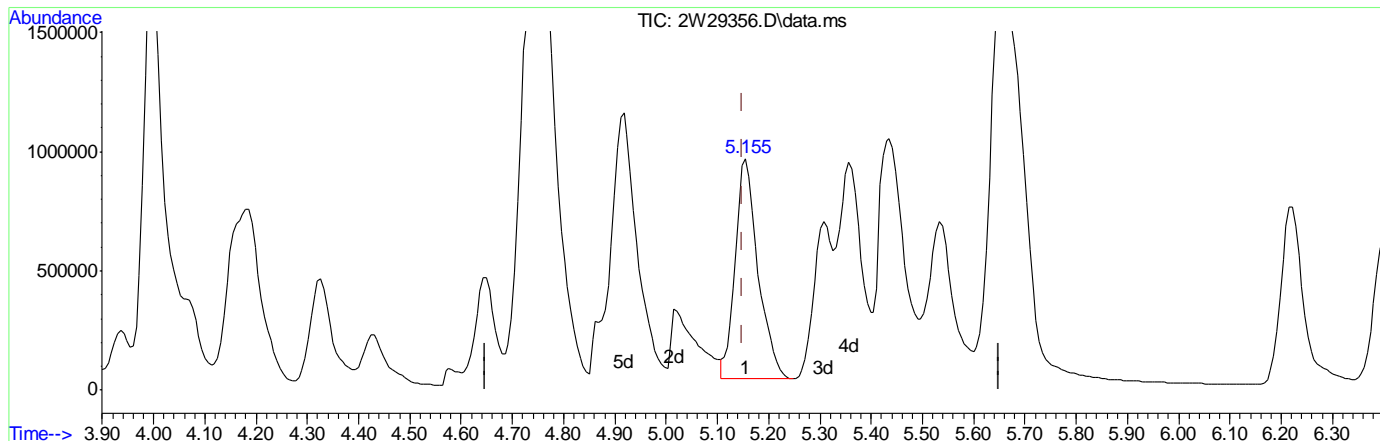
response 128788

Ion	Exp%	Act%
86.00	100	100
43.10	700.50	948.97#
44.10	43.90	51.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29356.D
Acq On : 21 Jan 2011 12:03 pm
Operator : YOUMINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:25:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (0.000) 2.39PPBV m

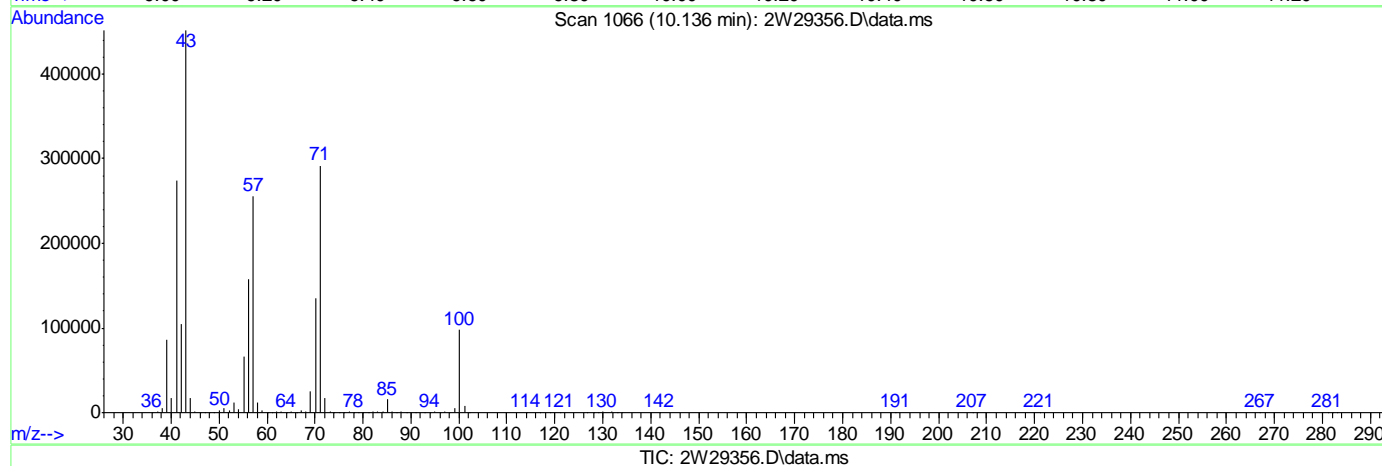
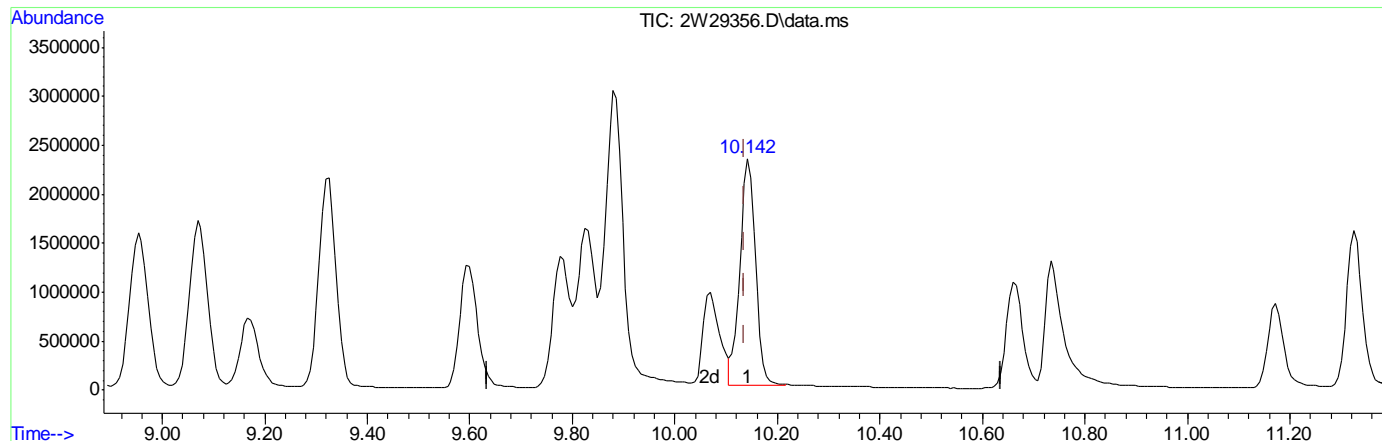
response 2856422

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29356.D
Acq On : 21 Jan 2011 12:03 pm
Operator : YOUMINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:25:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.136min (0.000) 4.36PPBV m

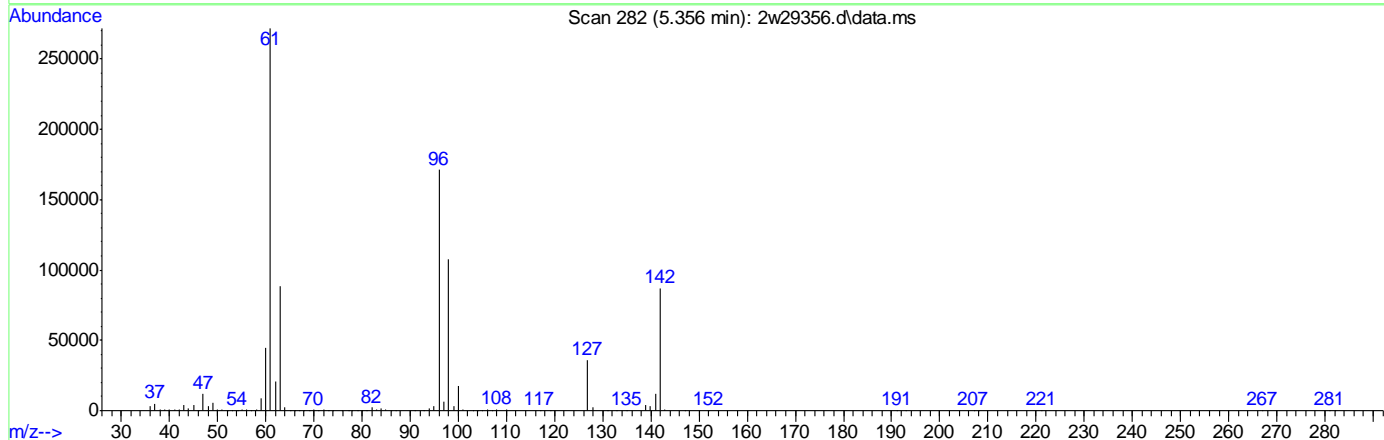
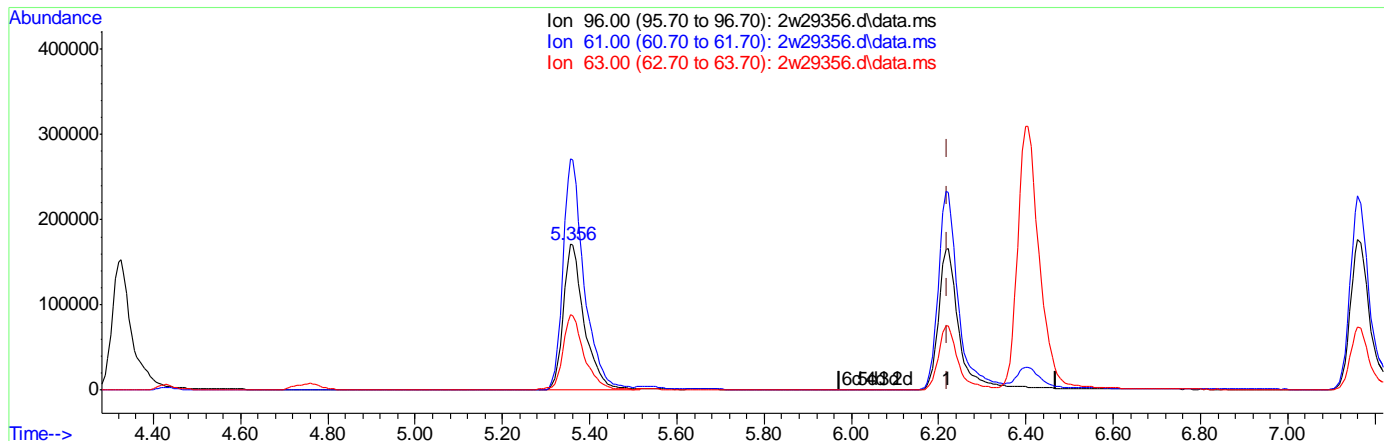
response 4820599

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29356.d
Acq On : 21 Jan 2011 12:03 pm
Operator : YOUMINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(22) 1,1-DICHLOROETHYLENE

5.356min (-0.866) 19.37PPBV m

response 569824

Ion	Exp%	Act%
96.00	100	100
61.00	143.10	130.19
63.00	47.60	41.65
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29357.d
Acq On : 21 Jan 2011 12:41 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.307	128	162230	10.00	PPBV	0.00
44) 1,4-DIFLUOROBENZENE	9.166	114	791070	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.281	82	342822	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.281	82	359809	10.00	PPBV	# 0.00

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.769	95	187753	5.23	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	104.60%

Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	3.832	85	354052	3.95	PPBV	99
4) FREON 152A	3.740	65	82985	3.81	PPBV	94
5) CHLORODIFLUOROMETHANE	3.765	67	34308	4.07	PPBV	97
6) PROPYLENE	3.789	41	101435	4.03	PPBV	100
7) FREON 114	3.997	85	414652	4.11	PPBV	98
8) CHLOROMETHANE	3.936	52	37064	4.24	PPBV	# 88
9) VINYL CHLORIDE	4.070	62	139746	4.16	PPBV	100
10) 1,3-BUTADIENE	4.155	54	104447	4.27	PPBV	92
11) n-BUTANE	4.185	43	209316	4.33	PPBV	# 95
12) BROMOMETHANE	4.326	94	130743	4.28	PPBV	100
13) CHLOROETHANE	4.429	64	78052	4.27	PPBV	98
14) FREON 123	4.728	83	356214	4.23	PPBV	# 75
15) FREON 123A	4.765	117	200511	4.18	PPBV	86
16) TRICHLOROFLUOROMETHANE	4.917	101	360524	4.10	PPBV	99
17) ISOPROPYL ALCOHOL	5.106	45	192123	4.28	PPBV	72
18) ACETONE	4.966	58	43018m	3.76	PPBV	
19) PENTANE	5.155	42	144494	4.32	PPBV	94
20) TVHC as EQUIV PENTANE	5.149	TIC	796313m	5.12	PPBV	
21) IDOMETHANE	5.307	142	329526	4.50	PPBV	100
22) 1,1-DICHLOROETHYLENE	5.356	96	134735m	4.74	PPBV	
23) CARBON DISULFIDE	5.691	76	338396	4.08	PPBV	95
24) ETHANOL	4.643	45	34391	3.63	PPBV	98
25) BROMOETHENE	4.649	106	129366	4.46	PPBV	99
26) METHYLENE CHLORIDE	5.441	84	107434	4.20	PPBV	99
27) 3-CHLOROPROPENE	5.539	76	56761	4.66	PPBV	# 24
28) FREON 113	5.649	151	232928	4.31	PPBV	95
29) TRANS-1,2-DICHLOROETHY...	6.222	96	121711	4.28	PPBV	94
30) TERTIARY BUTYL ALCOHOL	5.496	59	240438	4.29	PPBV	# 75
31) METHYL TERTIARY BUTYL ...	6.514	73	403298	4.67	PPBV	96
32) TETRAHYDROFURAN	8.051	72	36502	3.08	PPBV	97
33) HEXANE	7.362	57	210811	4.22	PPBV	97
34) VINYL ACETATE	6.587	86	24692	4.96	PPBV	# 51
35) 1,1-DICHLOROETHANE	6.398	63	248758	4.37	PPBV	100
36) METHYL ETHYL KETONE	6.984	72	46374m	4.39	PPBV	
37) cis-1,2-DICHLOROETHYLENE	7.161	96	126046	4.68	PPBV	90
38) ETHYL ACETATE	7.508	61	25726m	3.65	PPBV	
39) CHLOROFORM	7.429	83	279332	4.58	PPBV	98
40) 2,4-DIMETHYLPENTANE	8.209	57	293927	4.28	PPBV	95
41) 1,1,1-TRICHLOROETHANE	8.368	97	316111	4.32	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29357.d
 Acq On : 21 Jan 2011 12:41 pm
 Operator : YOU MINH
 Sample : IC1240-5
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:56 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
 Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Tue Jan 25 10:32:36 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.953	117	320727	4.31	PPBV	100
43) 1,2-DICHLOROETHANE	8.130	62	147273	4.76	PPBV	99
45) BENZENE	8.813	78	406625	4.65	PPBV	98
46) CYCLOHEXANE	9.069	56	244783	4.51	PPBV #	79
47) 2,3-DIMETHYLPENTANE	9.319	71	116255	4.53	PPBV	92
48) TRICHLOROETHYLENE	9.825	95	158971	4.37	PPBV	95
49) 1,2-DICHLOROPROPANE	9.593	63	152831	5.03	PPBV	98
50) BROMODICHLOROMETHANE	9.776	83	267614	4.75	PPBV	94
51) 2,2,4-TRIMETHYLPENTANE	9.880	57	771162	4.53	PPBV	99
52) 1,4-DIOXANE	10.068	88	47304	3.72	PPBV	85
53) METHYL METHACRYLATE	10.093	69	128484	4.72	PPBV #	15
54) HEPTANE	10.136	43	248851	4.90	PPBV	86
55) TVHC as EQUIV HEPTANE	10.136	TIC	1177734m	5.29	PPBV	
56) METHYL ISOBUTYL KETONE	10.776	58	92322	4.32	PPBV	89
57) cis-1,3-DICHLOROPROPENE	10.660	75	183549	4.80	PPBV	91
58) TOLUENE	11.599	92	269225	4.92	PPBV	98
59) trans-1,3-DICHLOROPROPENE	11.172	75	128205	4.91	PPBV	91
60) 1,1,2-TRICHLOROETHANE	11.324	83	129268	5.06	PPBV	96
62) 2-HEXANONE	11.946	58	90452m	4.44	PPBV	
63) TETRACHLOROETHYLENE	12.672	164	161865	5.07	PPBV	99
64) DIBROMOCHLOROMETHANE	11.983	129	245179	5.29	PPBV	99
65) 1,2-DIBROMOETHANE	12.214	107	162288	5.08	PPBV	99
66) OCTANE	12.580	43	321211	5.39	PPBV	89
67) 1,1,1,2-TETRACHLOROETHANE	13.306	131	220807	5.34	PPBV #	1
68) CHLOROBENZENE	13.324	112	281192	4.93	PPBV	95
69) ETHYLBENZENE	13.702	91	552197	5.31	PPBV	98
70) m,p-XYLENE	13.879	106	420763	10.85	PPBV	95
71) o-XYLENE	14.324	106	213977	5.57	PPBV	94
72) STYRENE	14.220	104	223788	5.31	PPBV	97
73) NONANE	14.580	43	301551	5.97	PPBV	92
74) BROMOFORM	13.915	173	193175	5.17	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.312	83	269290	5.33	PPBV	99
77) ISOPROPYLBENZENE	14.921	105	648337	5.74	PPBV	98
78) 2-CHLOROTOLUENE	15.391	126	124636	5.44	PPBV #	1
79) n-PROPYLBENZENE	15.439	120	141476	5.49	PPBV #	33
80) 4-ETHYLTOLUENE	15.592	105	453113	5.68	PPBV	98
81) 1,3,5-TRIMETHYLBENZENE	15.671	105	446449	5.90	PPBV	97
82) TERT-BUTYLBENZENE	16.073	134	114294	6.33	PPBV	93
83) 1,2,4-TRIMETHYLBENZENE	16.073	105	370843	5.82	PPBV	93
84) m-DICHLOROBENZENE	16.214	146	156415	5.52	PPBV	99
85) BENZYL CHLORIDE	16.201	91	191819	5.78	PPBV	99
86) p-DICHLOROBENZENE	16.281	146	154520	5.42	PPBV	99
87) SEC-BUTYLBENZENE	16.348	134	126158	5.87	PPBV	93
88) p-ISOPROPYLTOLUENE	16.512	134	99640	5.63	PPBV	93
89) o-DICHLOROBENZENE	16.616	146	153290	5.62	PPBV	100
90) n-BUTYLBENZENE	16.927	134	66443	4.99	PPBV	85
91) HEXACHLOROBUTADIENE	18.744	225	79809	6.04	PPBV	99
92) 1,2,4-TRICHLOROBENZENE	18.311	180	37013	4.95	PPBV	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29357.d
Acq On : 21 Jan 2011 12:41 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration

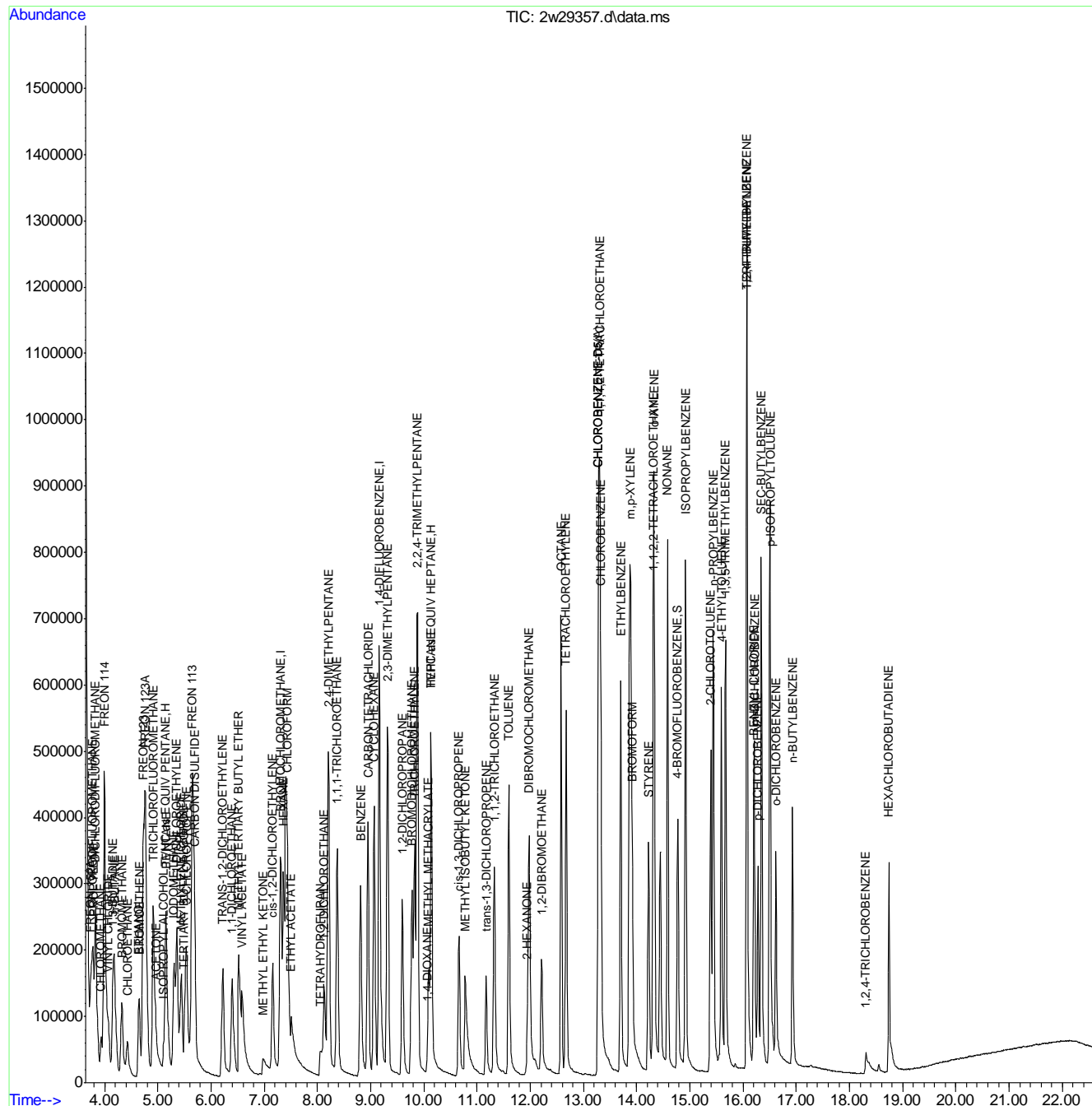
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29357.d
Acq On : 21 Jan 2011 12:41 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V2W1240-IC1240

Method:

TO-15

Lab FileID:

2W29357.D

Analyst approved:

01/25/11 15:48 Li Yuan

Injection Time:

01/21/11 12:41

Supervisor approved:

01/28/11 14:12 Jessica Reitan-Chu

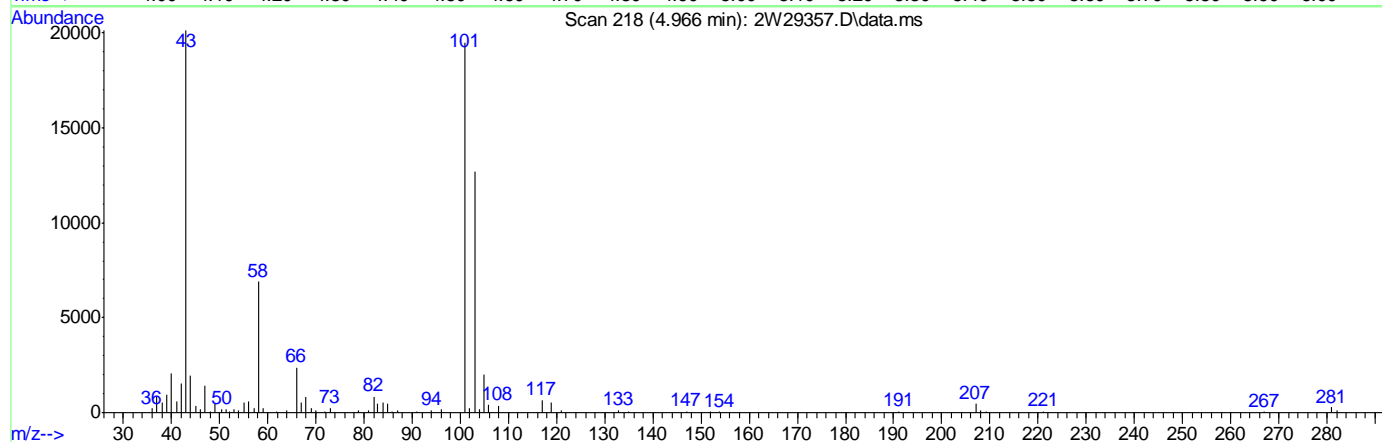
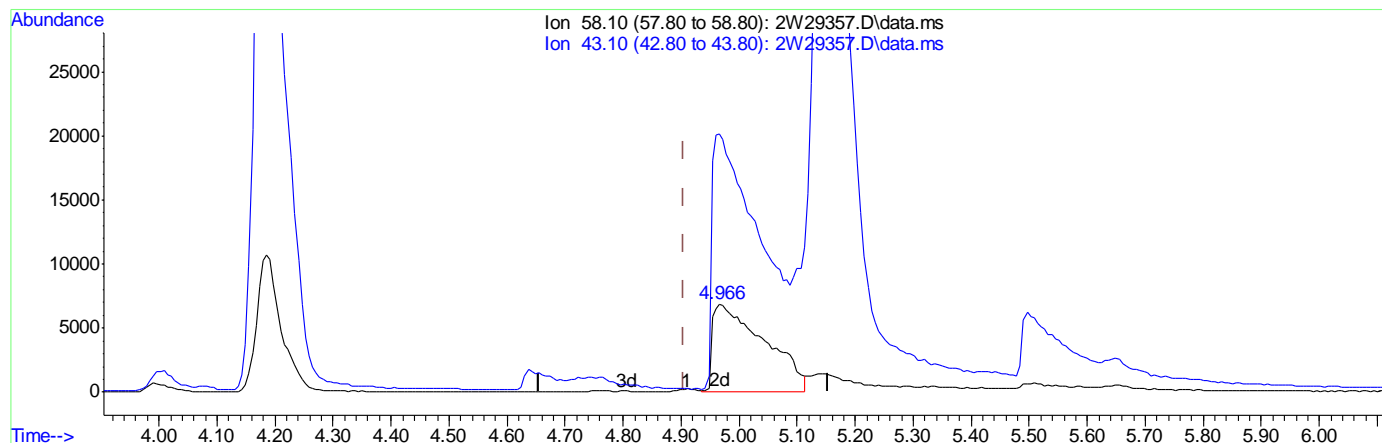
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		4.97	Poor instrument integration
Methyl ethyl ketone	78-93-3		6.98	Poor instrument integration
Ethyl Acetate	141-78-6		7.51	Poor instrument integration
2-Hexanone	591-78-6		11.95	Poor instrument integration

6.7.5.1
6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29357.D
Acq On : 21 Jan 2011 12:41 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 11:18:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration



TIC: 2W29357.D\data.ms

(18) ACETONE

4.966min (+0.061) 3.76PPBV m

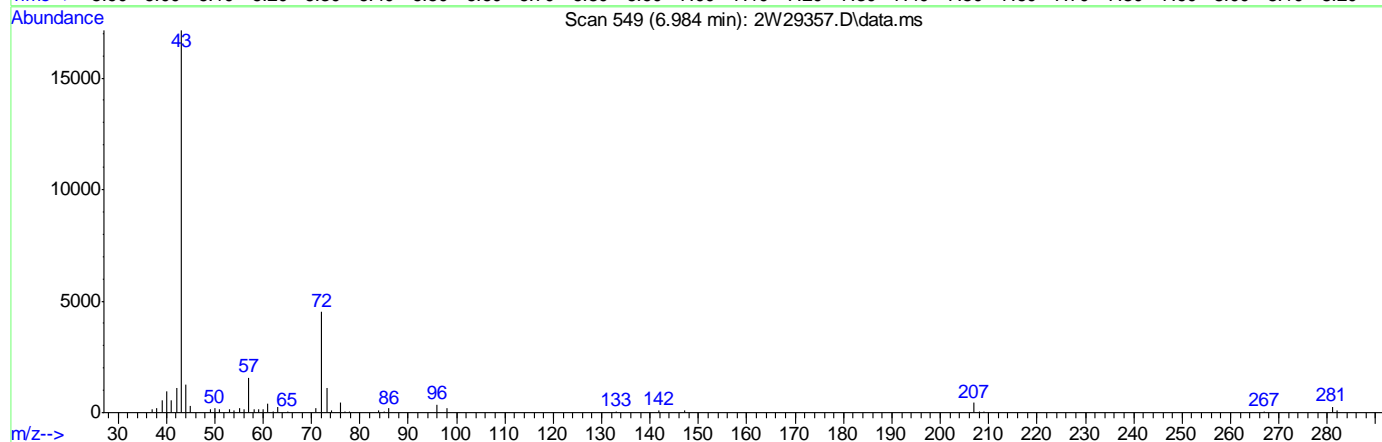
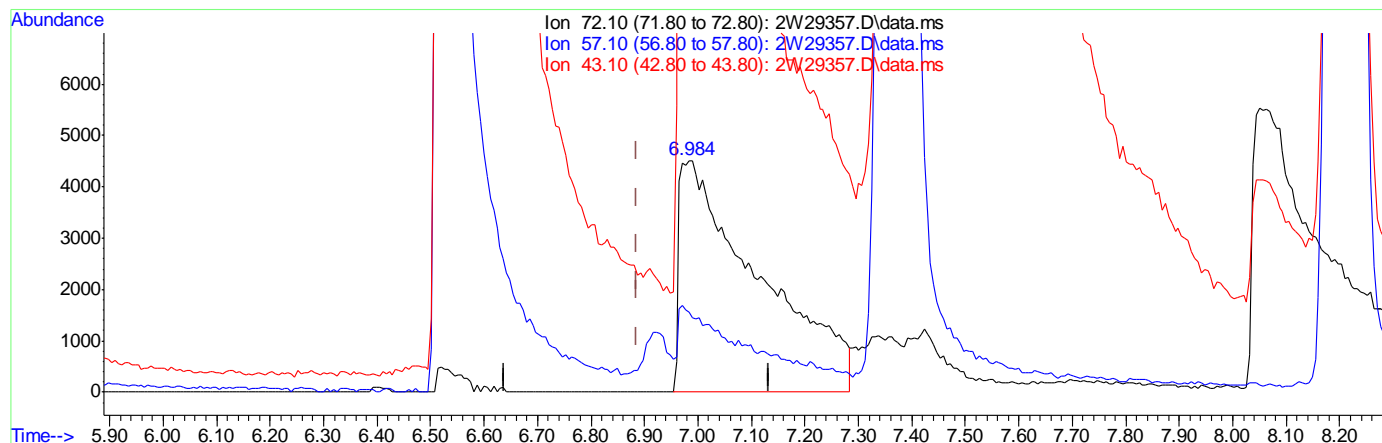
response 43018

Ion	Exp%	Act%
58.10	100	100
43.10	244.90	0.20#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29357.D
Acq On : 21 Jan 2011 12:41 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 11:18:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration



TIC: 2W29357.D\data.ms

(36) METHYL ETHYL KETONE

6.984min (+0.097) 4.39PPBV m

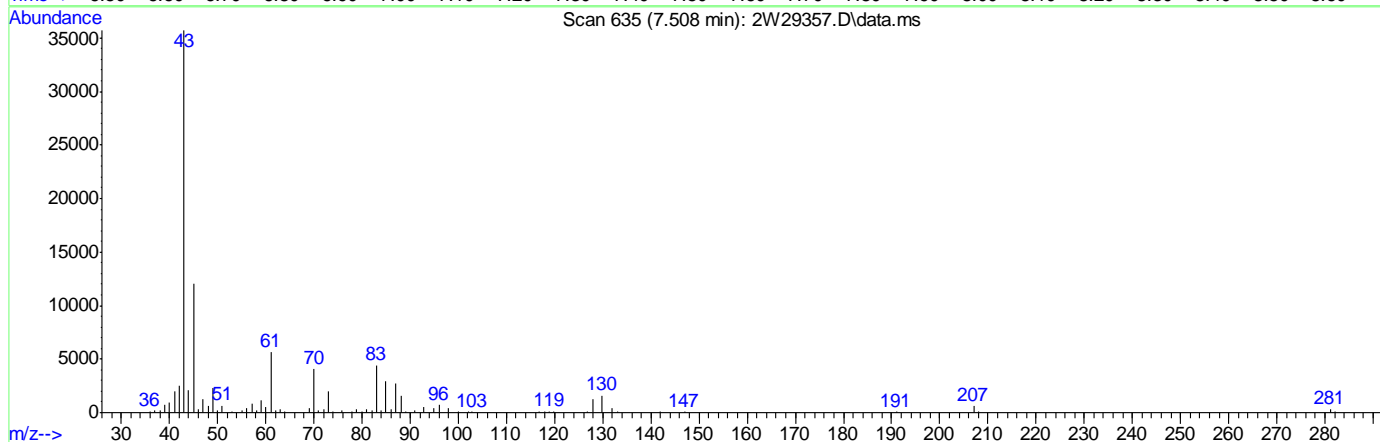
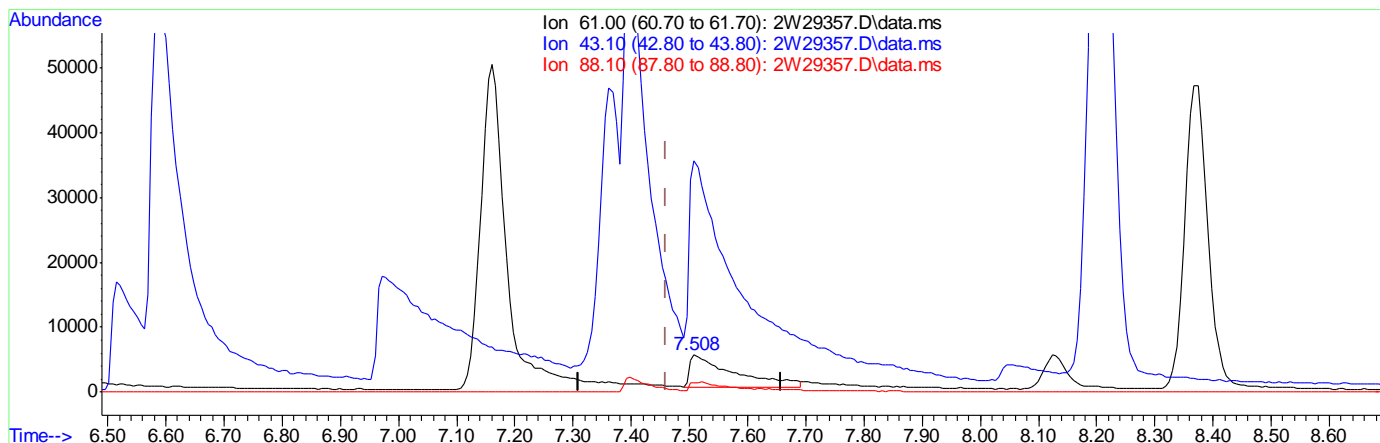
response 46374

Ion	Exp%	Act%
72.10	100	100
57.10	27.90	34.56
43.10	295.20	379.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29357.D
Acq On : 21 Jan 2011 12:41 pm
Operator : YOU MINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 11:18:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration



(38) ETHYL ACETATE

7.508min (+0.049) 3.65PPBV m

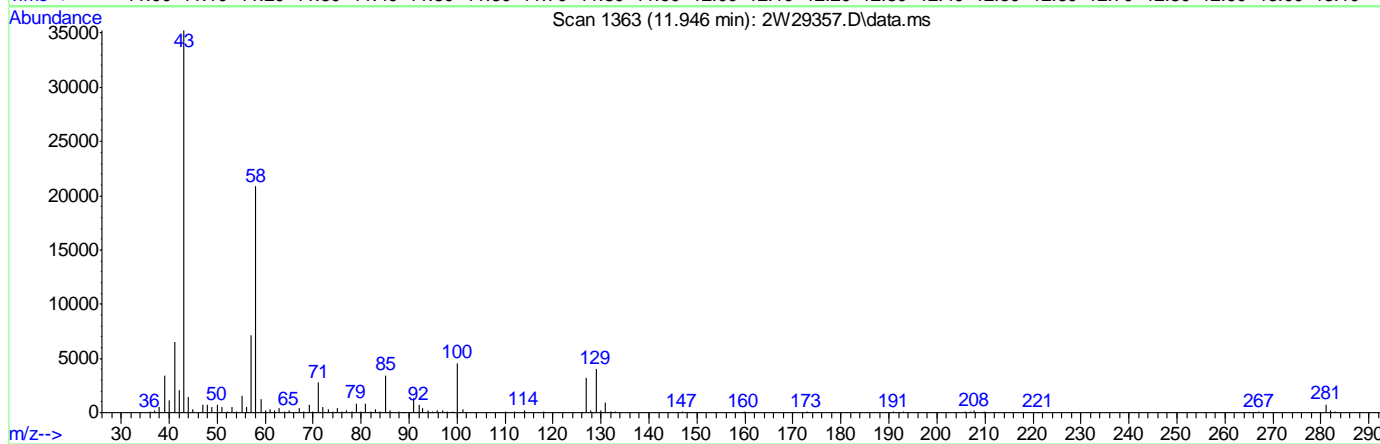
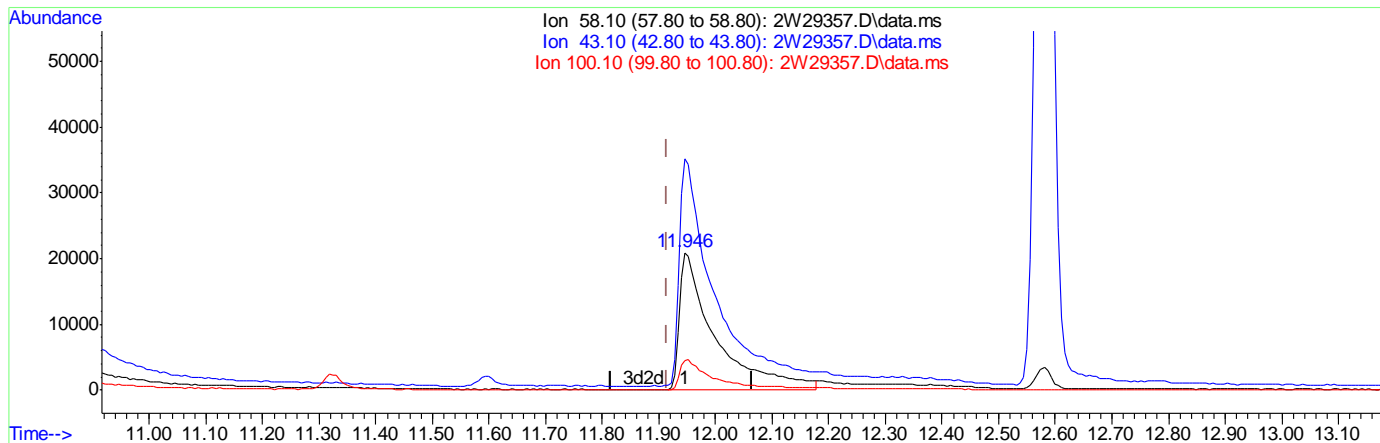
response 25726

Ion	Exp%	Act%
61.00	100	100
43.10	545.50	407.30#
88.10	34.40	22.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29357.D
Acq On : 21 Jan 2011 12:41 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 11:18:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration



TIC: 2W29357.D\data.ms

(62) 2-HEXANONE

11.946min (+0.030) 4.44PPBV m

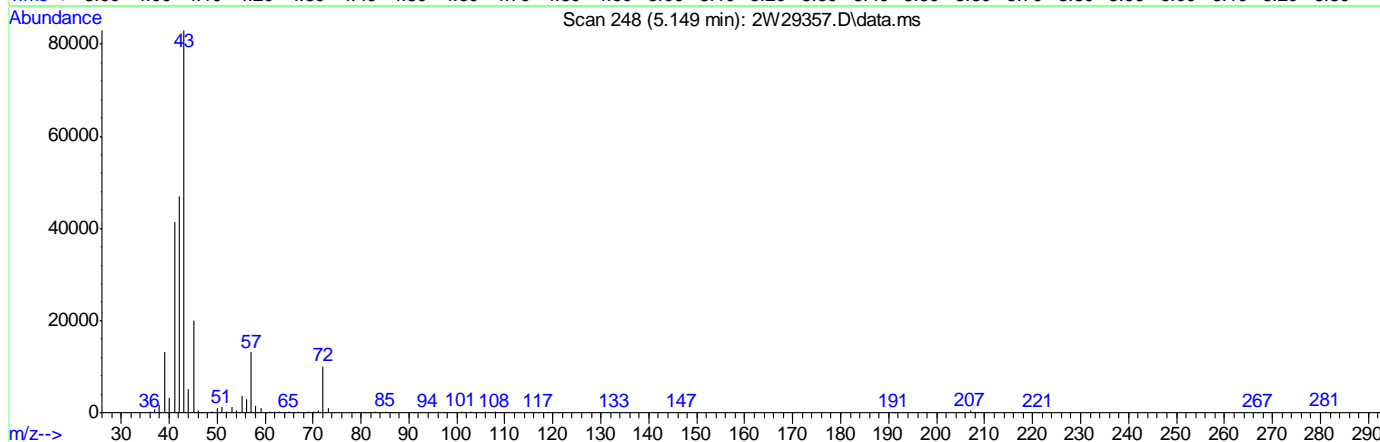
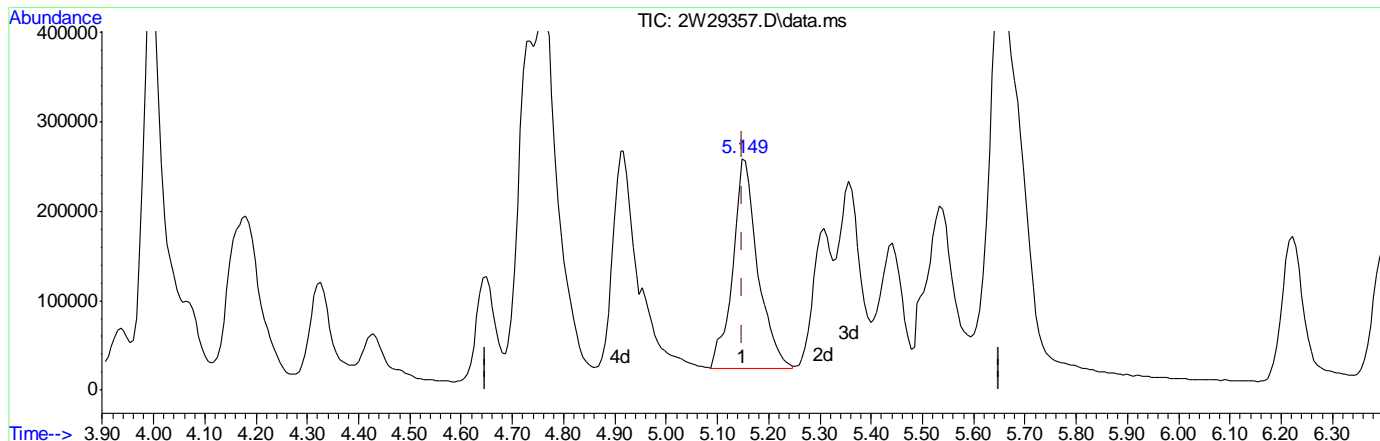
response 90452

Ion	Exp%	Act%
58.10	100	100
43.10	154.40	136.95
100.10	26.40	17.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29357.D
Acq On : 21 Jan 2011 12:41 pm
Operator : YOU MINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 11:18:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (0.000) 5.12PPBV m

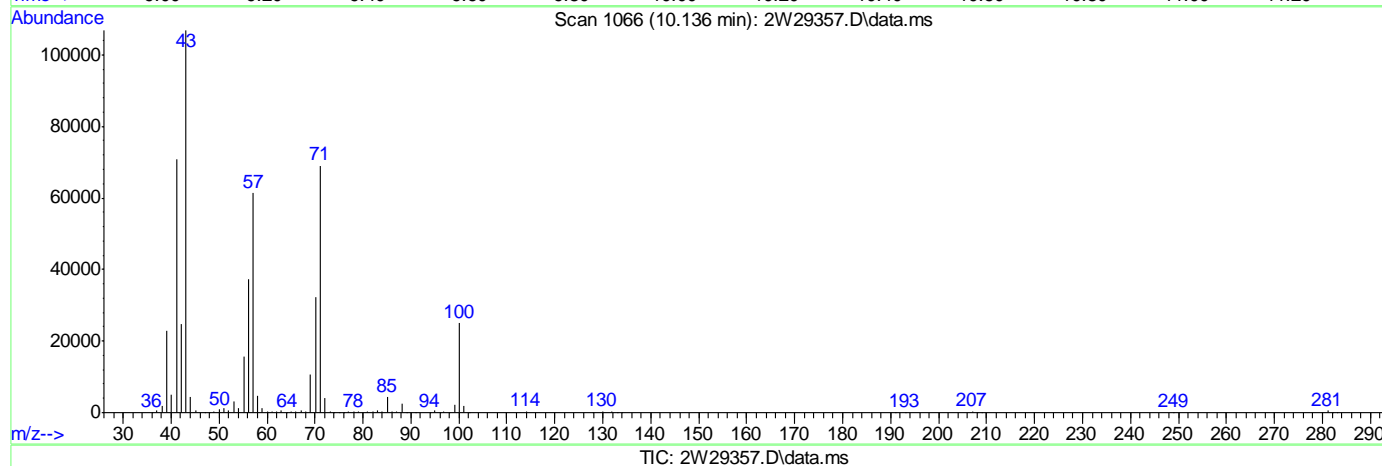
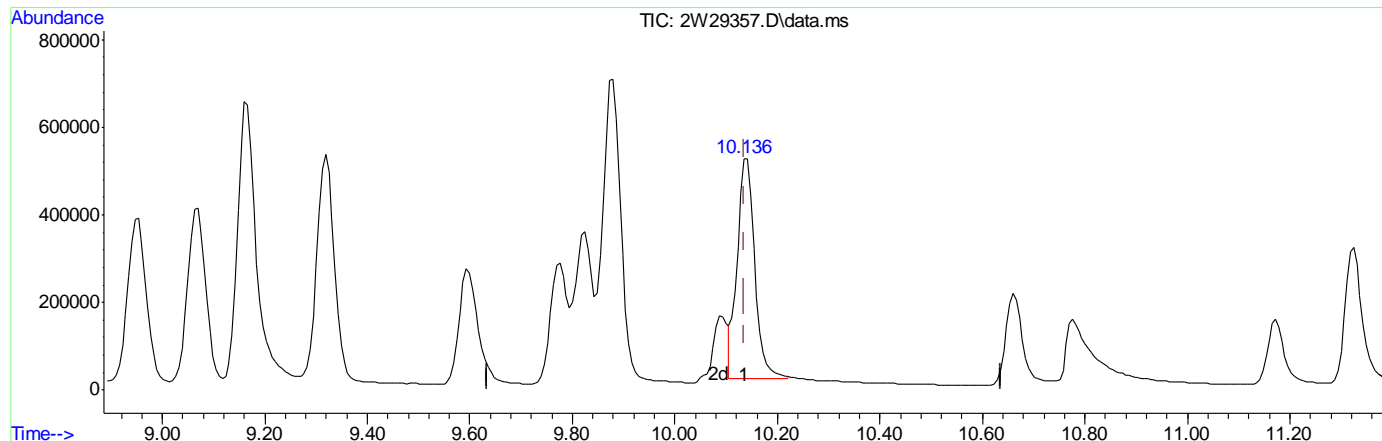
response 796313

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29357.D
Acq On : 21 Jan 2011 12:41 pm
Operator : YOU MINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 11:18:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.136min (0.000) 5.29PPBV m

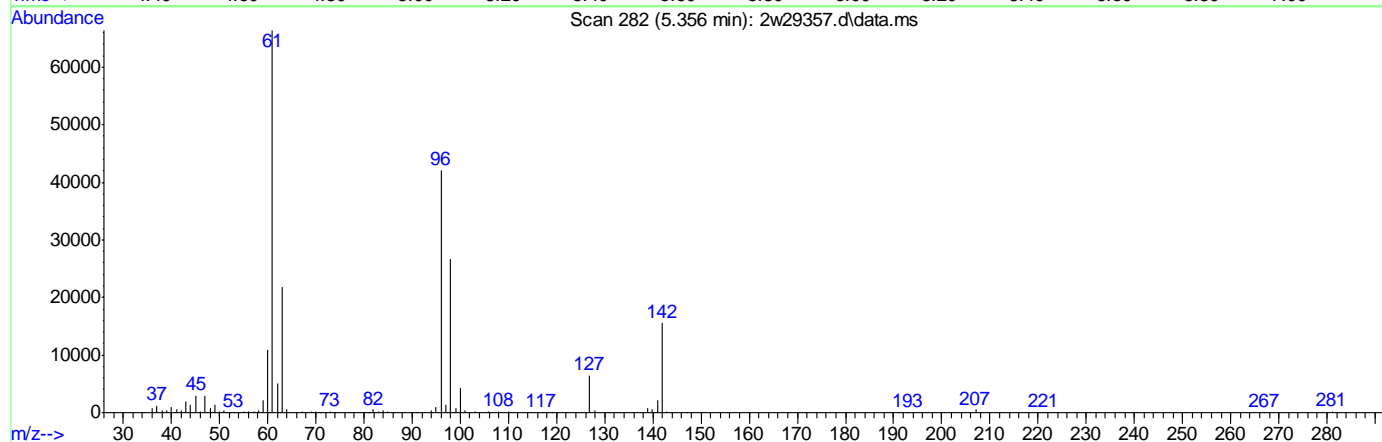
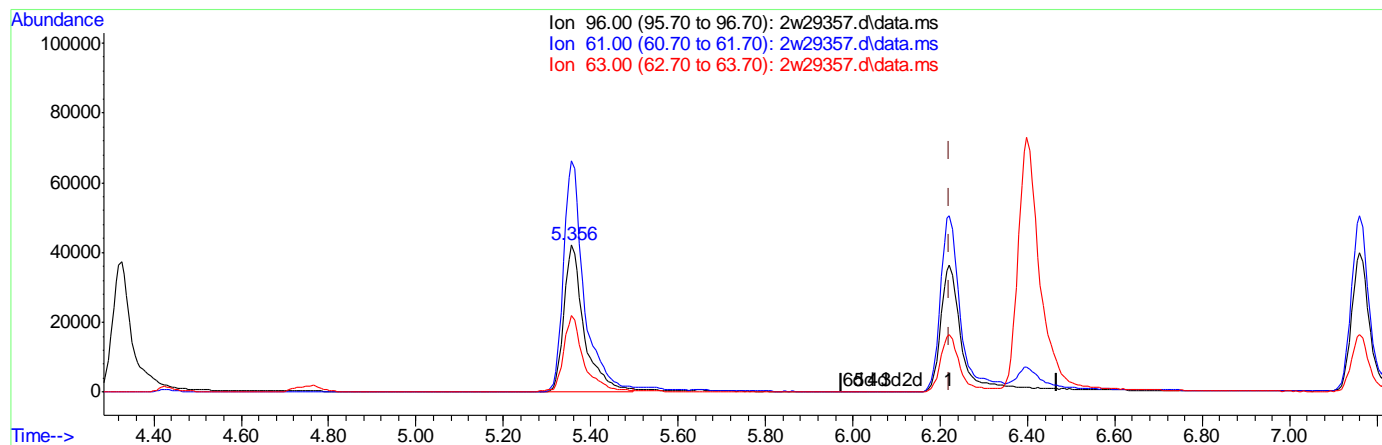
response 1177734

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29357.d
Acq On : 21 Jan 2011 12:41 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 08:59:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 10:32:36 2011
Response via : Initial Calibration



TIC: 2w29357.d\data.ms

(22) 1,1-DICHLOROETHYLENE

5.356min (-0.866) 4.74PPBV m

response 134735

Ion	Exp%	Act%
96.00	100	100
61.00	143.10	119.71#
63.00	47.60	38.50
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29358.d
 Acq On : 21 Jan 2011 1:19 pm
 Operator : YOU MINH
 Sample : IC1240-0.1
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:00:20 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Mon Jan 24 10:22:56 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.319	128	119724	10.00	PPBV	# 0.01
44) 1,4-DIFLUOROBENZENE	9.166	114	610868	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	253998	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.287	82	269041	10.00	PPBV	# 0.00
System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.775	95	126285	4.75	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	95.00%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	3.838	85	7811	0.12	PPBV	99
6) PROPYLENE	3.802	41	2418	0.13	PPBV	95
7) FREON 114	3.997	85	8887	0.12	PPBV	95
9) VINYL CHLORIDE	4.076	62	2851	0.11	PPBV	94
10) 1,3-BUTADIENE	4.167	54	1970	0.11	PPBV	# 79
12) BROMOMETHANE	4.332	94	2624	0.12	PPBV	88
13) CHLOROETHANE	4.436	64	1398	0.10	PPBV	95
14) FREON 123	4.740	83	6984	0.11	PPBV	# 77
15) FREON 123A	4.771	117	3979	0.11	PPBV	80
16) TRICHLOROFLUOROMETHANE	4.917	101	7535	0.12	PPBV	97
17) ISOPROPYL ALCOHOL	5.423	45	3259m	0.10	PPBV	
18) ACETONE	5.265	58	739m	0.09	PPBV	
19) PENTANE	5.167	42	2791	0.11	PPBV	93
21) IODOMETHANE	5.313	142	5345	0.10	PPBV	97
22) 1,1-DICHLOROETHYLENE	5.362	96	2179m	0.10	PPBV	
23) CARBON DISULFIDE	5.704	76	7026	0.11	PPBV	80
25) BROMOETHENE	4.661	106	2367	0.11	PPBV	# 96
27) 3-CHLOROPROPENE	5.545	76	856	0.10	PPBV	# 67
28) FREON 113	5.655	151	4478	0.11	PPBV	92
29) TRANS-1,2-DICHLOROETHY...	6.246	96	2486	0.12	PPBV	84
30) TERTIARY BUTYL ALCOHOL	5.935	59	4325m	0.10	PPBV	
31) METHYL TERTIARY BUTYL ...	6.911	73	6027m	0.09	PPBV	
33) HEXANE	7.374	57	4168	0.11	PPBV	# 73
35) 1,1-DICHLOROETHANE	6.405	63	4352	0.10	PPBV	95
37) cis-1,2-DICHLOROETHYLENE	7.173	96	1847	0.09	PPBV	# 83
39) CHLOROFORM	7.435	83	4397	0.10	PPBV	# 83
40) 2,4-DIMETHYLPENTANE	8.209	57	5502	0.11	PPBV	97
41) 1,1,1-TRICHLOROETHANE	8.374	97	5889	0.11	PPBV	94
42) CARBON TETRACHLORIDE	8.947	117	6038	0.11	PPBV	97
43) 1,2-DICHLOROETHANE	8.148	62	2125	0.09	PPBV	95
45) BENZENE	8.819	78	6946	0.10	PPBV	96
46) CYCLOHEXANE	9.069	56	4663	0.11	PPBV	# 78
47) 2,3-DIMETHYLPENTANE	9.319	71	2201	0.11	PPBV	# 76
48) TRICHLOROETHYLENE	9.825	95	3133	0.11	PPBV	97
49) 1,2-DICHLOROPROPANE	9.611	63	2475	0.11	PPBV	91
50) BROMODICHLOROMETHANE	9.782	83	4363	0.10	PPBV	98
51) 2,2,4-TRIMETHYLPENTANE	9.880	57	14447	0.11	PPBV	98
54) HEPTANE	10.142	43	3849	0.10	PPBV	83
55) TVHC as EQUIV HEPTANE	10.136	TIC	16841m	0.02	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29358.d
Acq On : 21 Jan 2011 1:19 pm
Operator : YOU MINH
Sample : IC1240-0.1
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:00:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

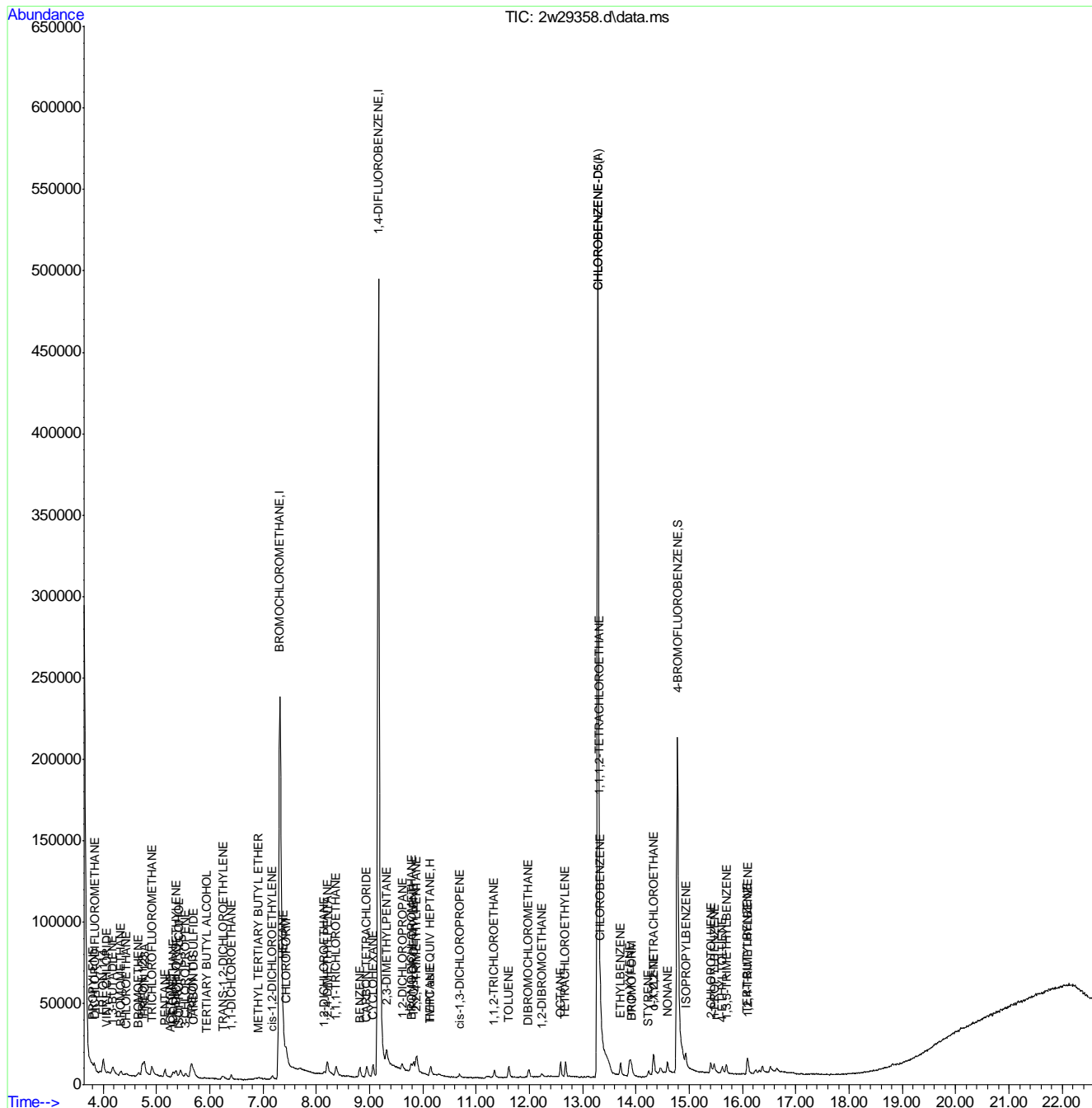
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) cis-1,3-DICHLOROPROPENE	10.690	75	2920	0.10	PPBV	84
58) TOLUENE	11.611	92	4265	0.10	PPBV	97
60) 1,1,2-TRICHLOROETHANE	11.337	83	1825	0.09	PPBV	97
63) TETRACHLOROETHYLENE	12.672	164	2497	0.11	PPBV	97
64) DIBROMOCHLOROMETHANE	11.983	129	3594	0.10	PPBV	96
65) 1,2-DIBROMOETHANE	12.239	107	2433	0.10	PPBV #	92
66) OCTANE	12.586	43	4397	0.10	PPBV	90
67) 1,1,1,2-TETRACHLOROETHANE	13.312	131	3066	0.10	PPBV #	1
68) CHLOROBENZENE	13.330	112	4608	0.11	PPBV	88
69) ETHYLBENZENE	13.714	91	8121	0.11	PPBV	94
70) m,p-XYLENE	13.885	106	6012	0.21	PPBV	96
71) o-XYLENE	14.336	106	2974	0.10	PPBV #	75
72) STYRENE	14.232	104	2394	0.08	PPBV	87
73) NONANE	14.592	43	3523	0.09	PPBV	89
74) BROMOFORM	13.921	173	2613	0.09	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.330	83	4206	0.11	PPBV	97
77) ISOPROPYLBENZENE	14.933	105	8474	0.10	PPBV	94
78) 2-CHLOROTOLUENE	15.403	126	1754	0.11	PPBV #	1
79) n-PROPYLBENZENE	15.470	120	1721	0.09	PPBV #	15
80) 4-ETHYLTOLUENE	15.616	105	4393	0.07	PPBV	98
81) 1,3,5-TRIMETHYLBENZENE	15.696	105	4500	0.08	PPBV	92
82) TERT-BUTYLBENZENE	16.092	134	1044	0.08	PPBV #	78
83) 1,2,4-TRIMETHYLBENZENE	16.104	105	3311	0.07	PPBV #	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29358.d
Acq On : 21 Jan 2011 1:19 pm
Operator : YOU MINH
Sample : IC1240-0.1
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:00:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: V2W1240-IC1240 **Method:** TO-15
Lab FileID: 2W29358.D **Analyst approved:** 01/25/11 15:48 Li Yuan
Injection Time: 01/21/11 13:19 **Supervisor approved:** 01/28/11 14:12 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		5.26	Poor instrument integration
Isopropyl Alcohol	67-63-0		5.42	Poor instrument integration
Tertiary Butyl Alcohol	75-65-0		5.94	Poor instrument integration
Methyl Tert Butyl Ether	1634-04-4		6.91	Poor instrument integration

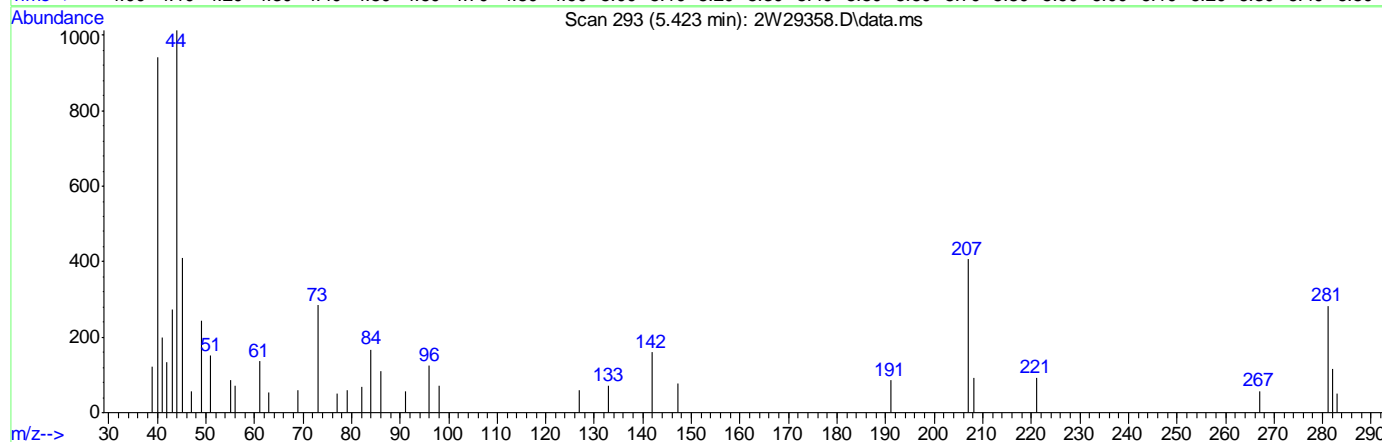
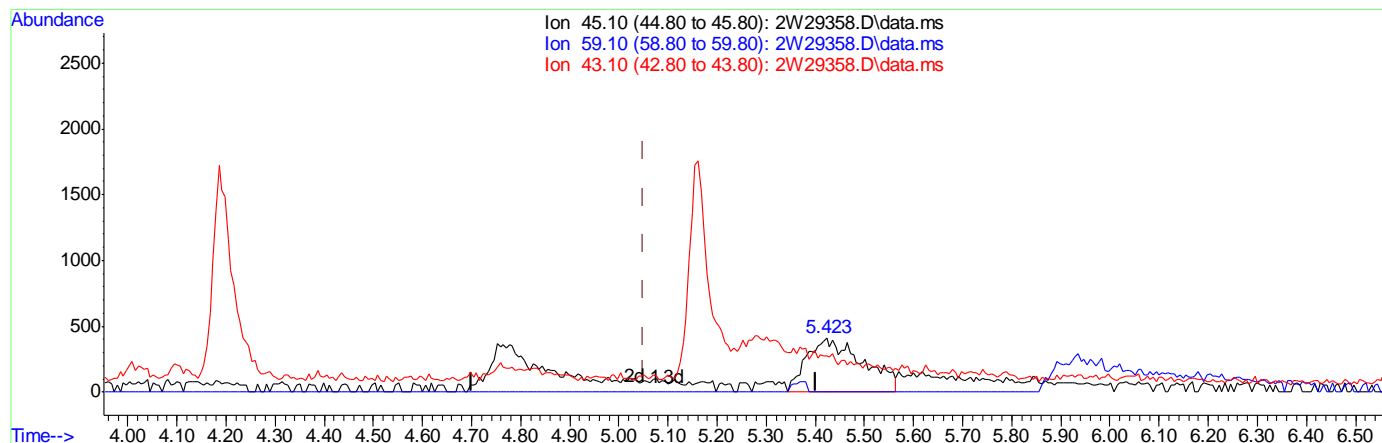
6.7.6.1

6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29358.D
Acq On : 21 Jan 2011 1:19 pm
Operator : YOU MINH
Sample : IC1240-0.1
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 25 09:26:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(17) ISOPROPYL ALCOHOL

5.423min (+0.372) 0.10PPBV m

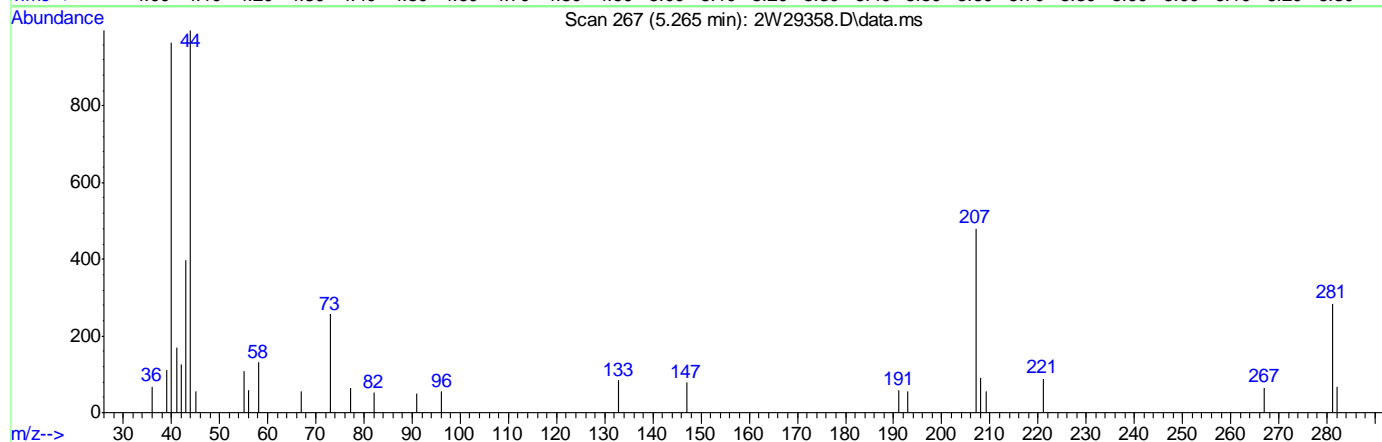
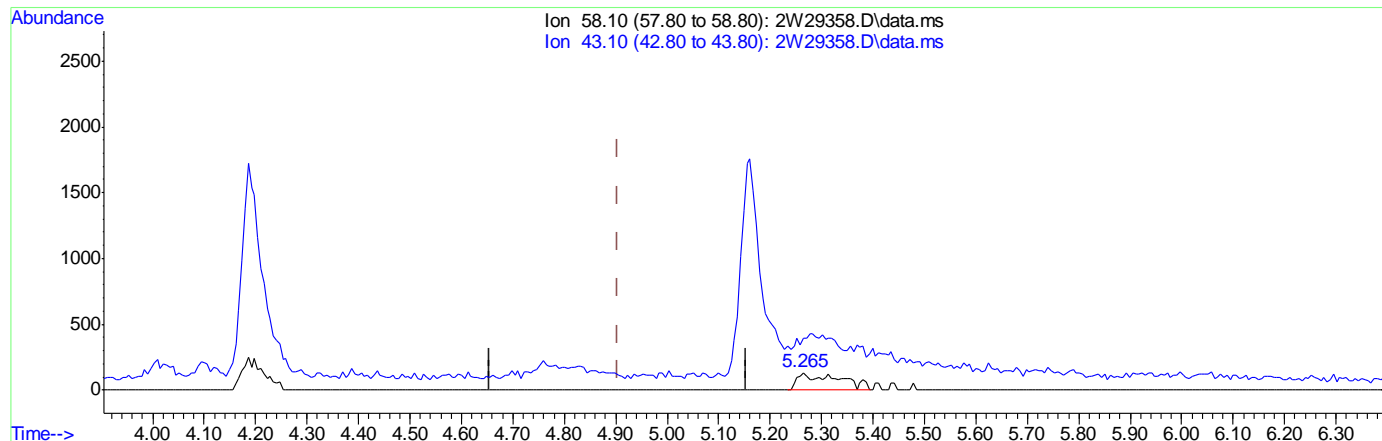
response 3259

Ion	Exp%	Act%
45.10	100	100
59.10	4.40	0.00
43.10	19.80	66.18#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29358.D
Acq On : 21 Jan 2011 1:19 pm
Operator : YOU MINH
Sample : IC1240-0.1
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 25 09:26:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29358.D\data.ms

(18) ACETONE

5.265min (+0.360) 0.09PPBV m

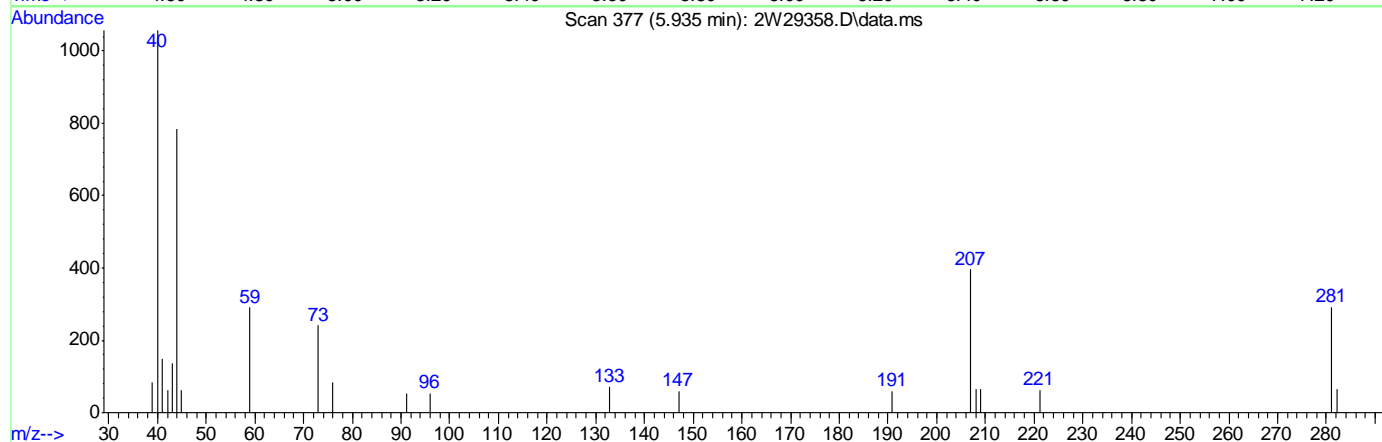
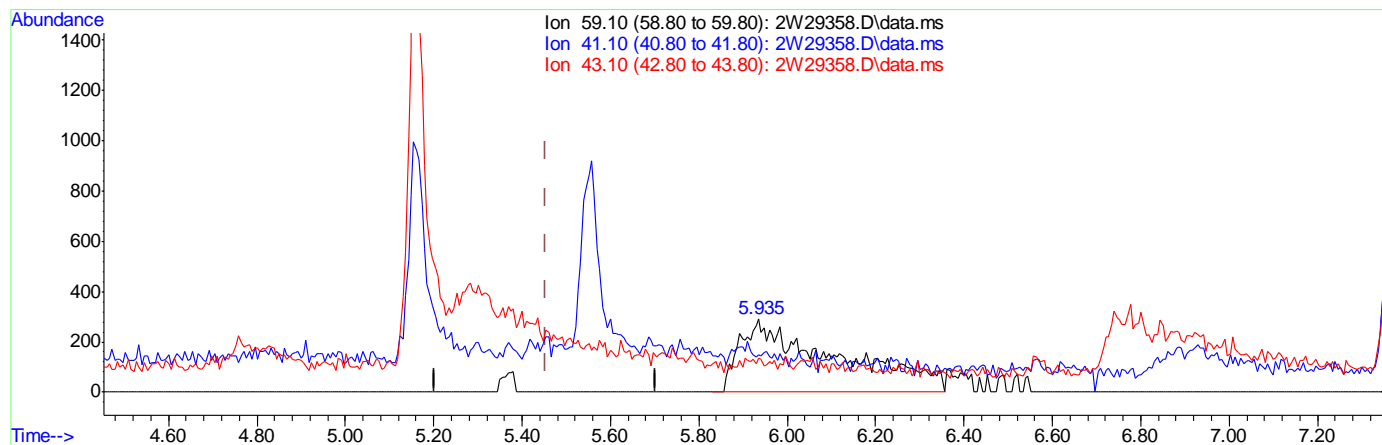
response 739

Ion	Exp%	Act%
58.10	100	100
43.10	244.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29358.D
Acq On : 21 Jan 2011 1:19 pm
Operator : YOU MINH
Sample : IC1240-0.1
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 25 09:26:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29358.D\data.ms

(30) TERTIARY BUTYL ALCOHOL

5.935min (+0.482) 0.10PPBV m

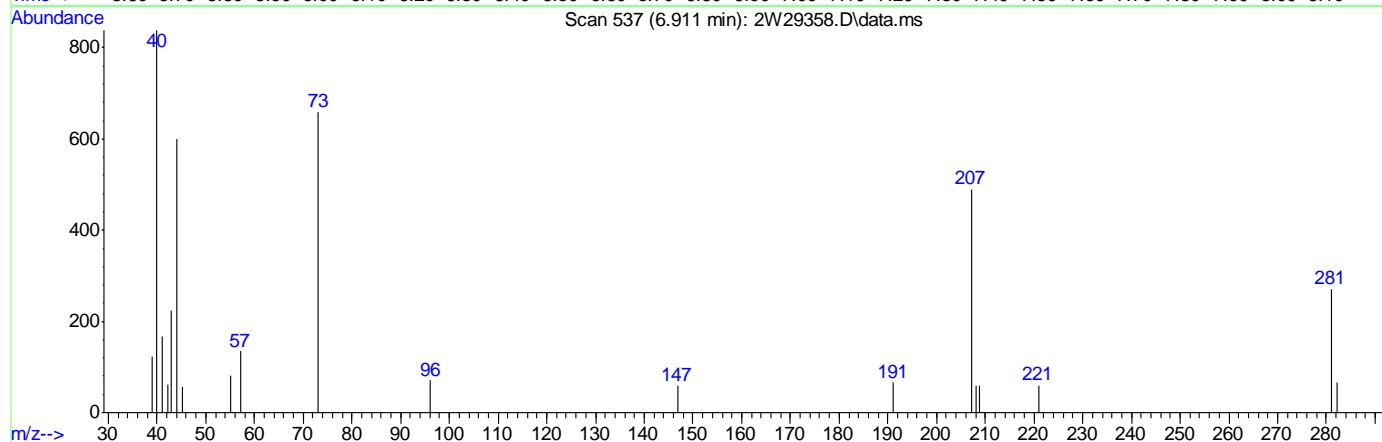
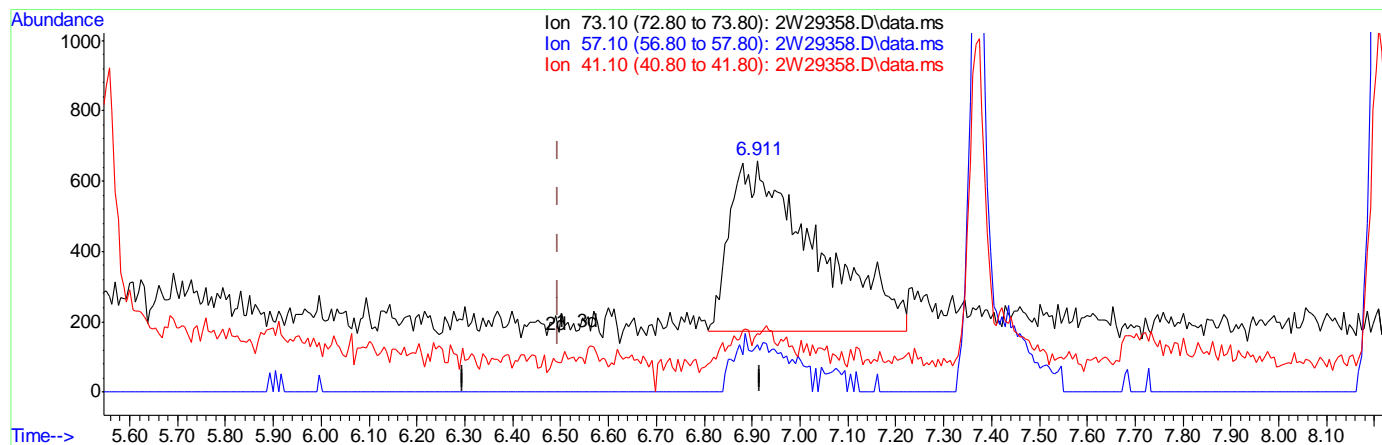
response 4325

Ion	Exp%	Act%
59.10	100	100
41.10	16.50	2.29
43.10	11.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29358.D
Acq On : 21 Jan 2011 1:19 pm
Operator : YOUMINH
Sample : IC1240-0.1
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 25 09:26:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29358.D\data.ms

(31) METHYL TERTIARY BUTYL ETHER

6.911min (+0.415) 0.09PPBV m

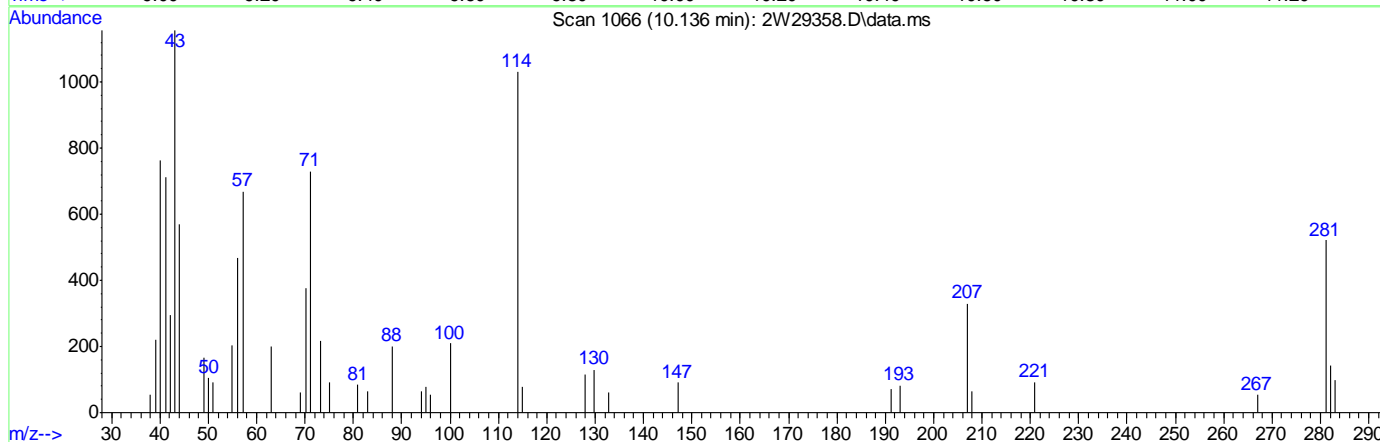
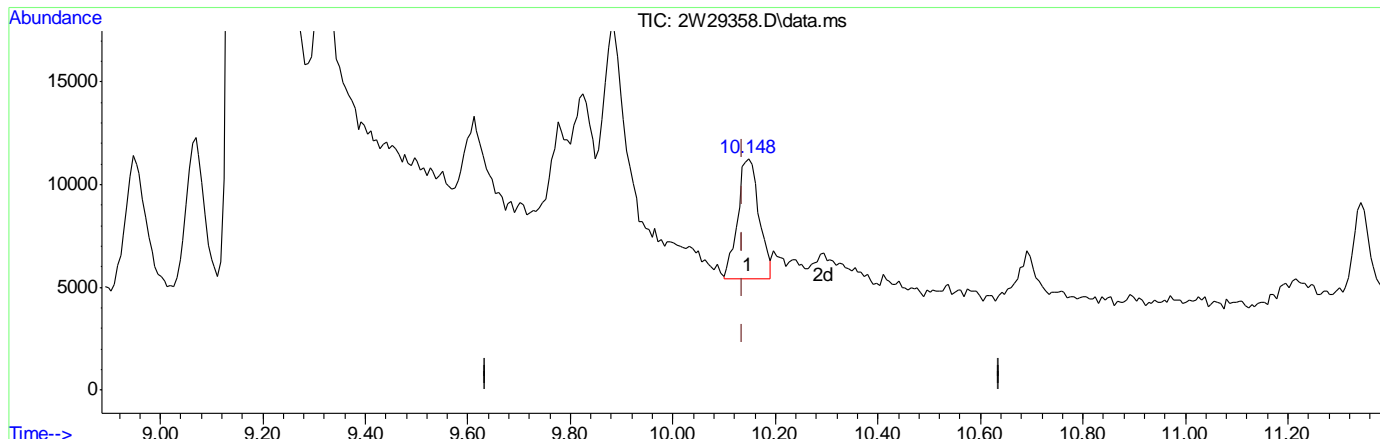
response 6027

Ion	Exp%	Act%
73.10	100	100
57.10	21.30	0.00#
41.10	17.10	2.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29358.D
Acq On : 21 Jan 2011 1:19 pm
Operator : YOU MINH
Sample : IC1240-0.1
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 25 09:26:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.136min (0.000) 0.02PPBV m

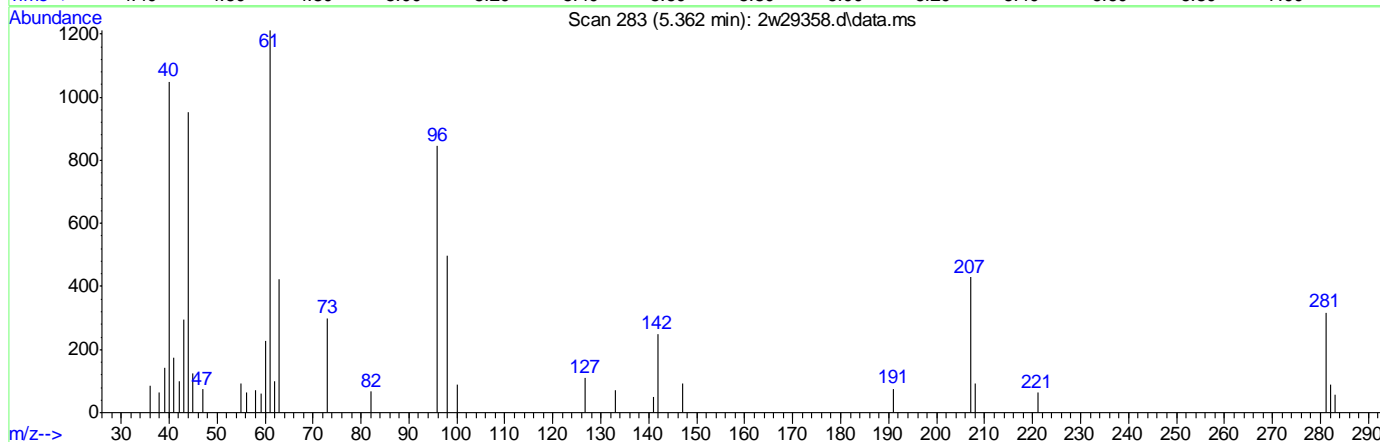
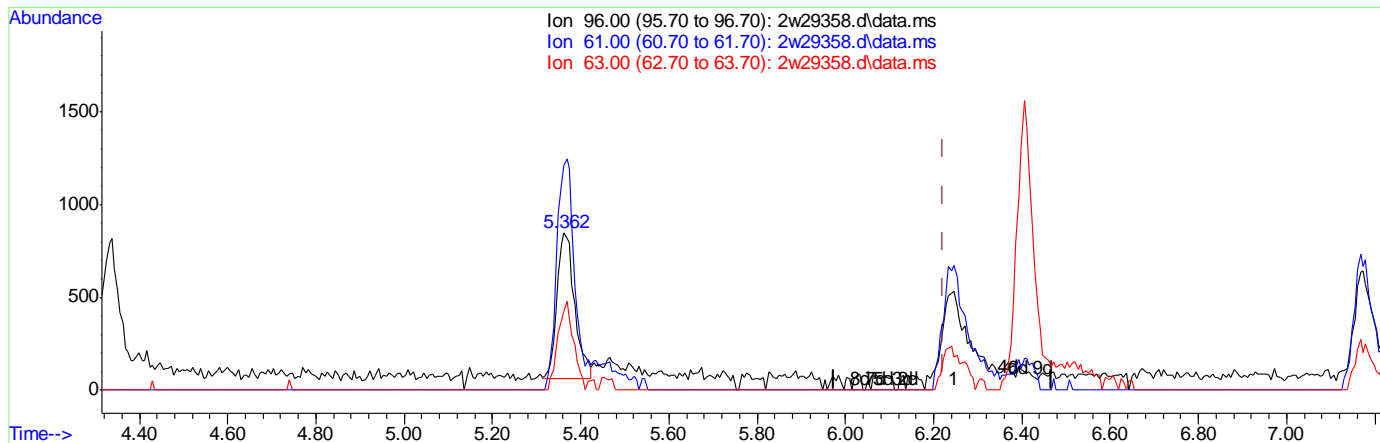
response 16841

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29358.d
Acq On : 21 Jan 2011 1:19 pm
Operator : YOUMINH
Sample : IC1240-0.1
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:00:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2w29358.d\data.ms

(22) 1,1-DICHLOROETHYLENE

5.362min (-0.860) 0.10PPBV m

response 2179

Ion	Exp%	Act%
96.00	100	100
61.00	143.10	125.93
63.00	47.60	35.29
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29359.d
 Acq On : 21 Jan 2011 1:57 pm
 Operator : YOUMINH
 Sample : IC1240-0.04
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:00:36 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Mon Jan 24 10:22:56 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.319	128	119523	10.00	PPBV	# 0.01
44) 1,4-DIFLUOROBENZENE	9.166	114	606905	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	249821	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.287	82	265488	10.00	PPBV	# 0.00
System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.775	95	120900	4.62	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	92.40%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	3.838	85	3452	0.05	PPBV	98
7) FREON 114	4.003	85	3690	0.05	PPBV	93
9) VINYL CHLORIDE	4.082	62	1141	0.05	PPBV	# 91
10) 1,3-BUTADIENE	4.167	54	798	0.04	PPBV	# 68
12) BROMOMETHANE	4.332	94	947	0.04	PPBV	95
13) CHLOROETHANE	4.435	64	580	0.04	PPBV	84
14) FREON 123	4.734	83	2945	0.05	PPBV	# 73
15) FREON 123A	4.777	117	1704	0.05	PPBV	# 69
16) TRICHLOROFLUOROMETHANE	4.917	101	3316	0.05	PPBV	96
19) PENTANE	5.155	42	1346	0.05	PPBV	93
21) IODOMETHANE	5.319	142	2190	0.04	PPBV	94
22) 1,1-DICHLOROETHYLENE	5.362	96	895m	0.04	PPBV	
23) CARBON DISULFIDE	5.710	76	2928	0.05	PPBV	# 31
25) BROMOETHENE	4.667	106	841	0.04	PPBV	# 93
27) 3-CHLOROPROPENE	5.545	76	306	0.03	PPBV	# 30
28) FREON 113	5.655	151	1880	0.05	PPBV	90
30) TERTIARY BUTYL ALCOHOL	5.984	59	1305m	0.03	PPBV	
33) HEXANE	7.368	57	1626	0.04	PPBV	99
35) 1,1-DICHLOROETHANE	6.411	63	1795	0.04	PPBV	93
37) cis-1,2-DICHLOROETHYLENE	7.173	96	804	0.04	PPBV	# 87
39) CHLOROFORM	7.435	83	1802	0.04	PPBV	# 90
40) 2,4-DIMETHYLPENTANE	8.209	57	2292	0.05	PPBV	94
41) 1,1,1-TRICHLOROETHANE	8.374	97	2470	0.05	PPBV	96
42) CARBON TETRACHLORIDE	8.947	117	2488	0.05	PPBV	95
43) 1,2-DICHLOROETHANE	8.148	62	740	0.03	PPBV	# 86
45) BENZENE	8.819	78	2953	0.04	PPBV	97
46) CYCLOHEXANE	9.063	56	2061	0.05	PPBV	# 75
47) 2,3-DIMETHYLPENTANE	9.319	71	949	0.05	PPBV	# 61
48) TRICHLOROETHYLENE	9.831	95	1420	0.05	PPBV	95
50) BROMODICHLOROMETHANE	9.782	83	1981	0.05	PPBV	# 88
51) 2,2,4-TRIMETHYLPENTANE	9.879	57	6563	0.05	PPBV	94
54) HEPTANE	10.148	43	1772	0.05	PPBV	# 79
58) TOLUENE	11.617	92	1721	0.04	PPBV	# 85
60) 1,1,2-TRICHLOROETHANE	11.343	83	742	0.04	PPBV	87
63) TETRACHLOROETHYLENE	12.678	164	994	0.04	PPBV	97
64) DIBROMOCHLOROMETHANE	11.989	129	1352	0.04	PPBV	98
65) 1,2-DIBROMOETHANE	12.239	107	780	0.03	PPBV	# 92
66) OCTANE	12.586	43	1908	0.04	PPBV	# 82
67) 1,1,1,2-TETRACHLOROETHANE	13.312	131	1289	0.04	PPBV	# 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29359.d
Acq On : 21 Jan 2011 1:57 pm
Operator : YOU MINH
Sample : IC1240-0.04
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:00:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

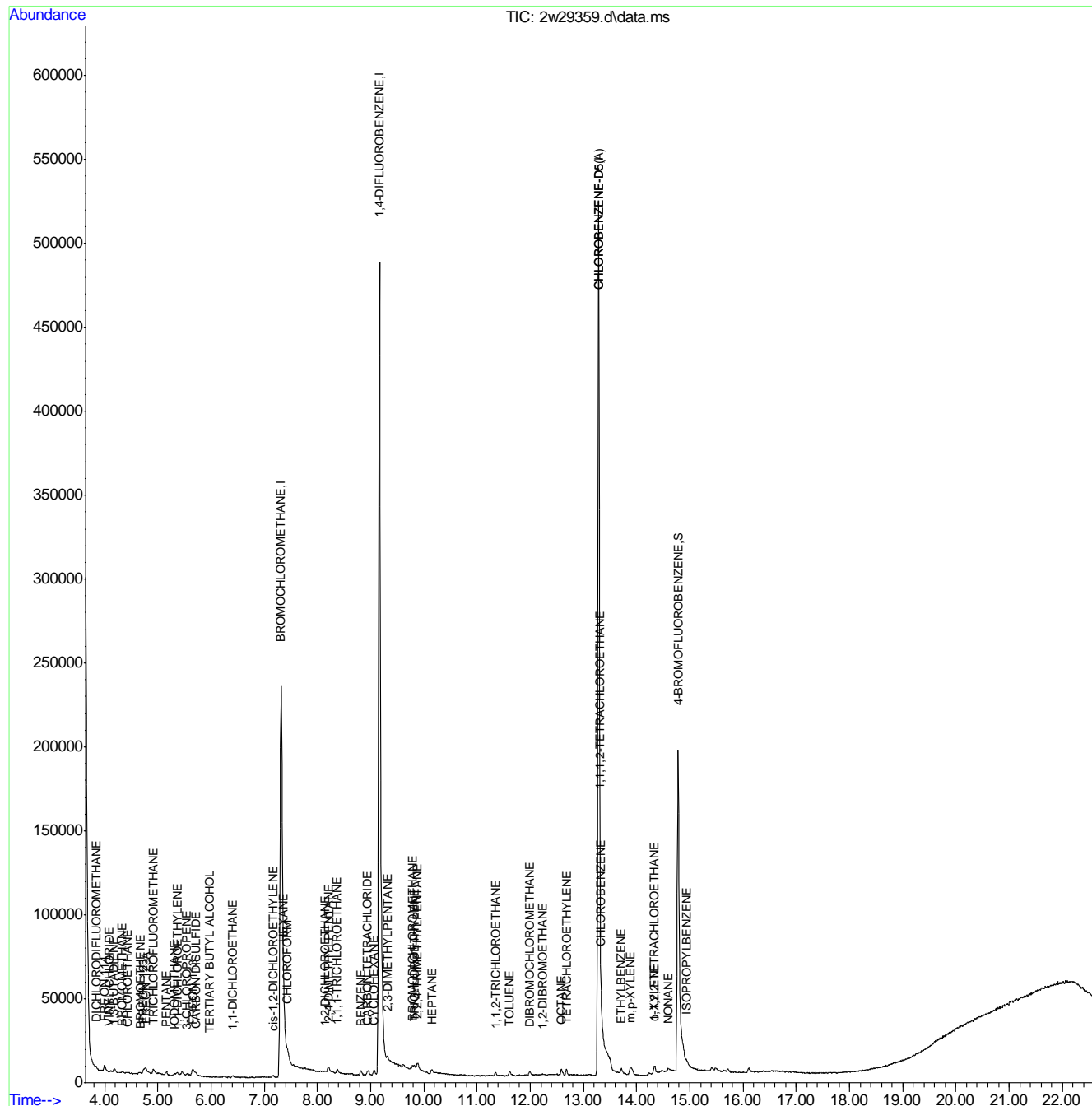
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) CHLOROBENZENE	13.330	112	1869	0.04	PPBV #	46
69) ETHYLBENZENE	13.714	91	3244	0.04	PPBV	91
70) m,p-XYLENE	13.885	106	2250	0.08	PPBV	94
71) o-XYLENE	14.336	106	1108	0.04	PPBV #	68
73) NONANE	14.598	43	1153	0.03	PPBV #	50
76) 1,1,2,2-TETRACHLOROETHANE	14.336	83	1762	0.05	PPBV	81
77) ISOPROPYLBENZENE	14.933	105	3248	0.04	PPBV	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29359.d
Acq On : 21 Jan 2011 1:57 pm
Operator : YOU MINH
Sample : IC1240-0.04
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:00:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2W1240-IC1240

Method: TO-15

Lab FileID: 2W29359.D

Analyst approved: 01/25/11 15:48 Li Yuan

Injection Time: 01/21/11 13:57

Supervisor approved: 01/28/11 14:13 Jessica Reitan-Chu

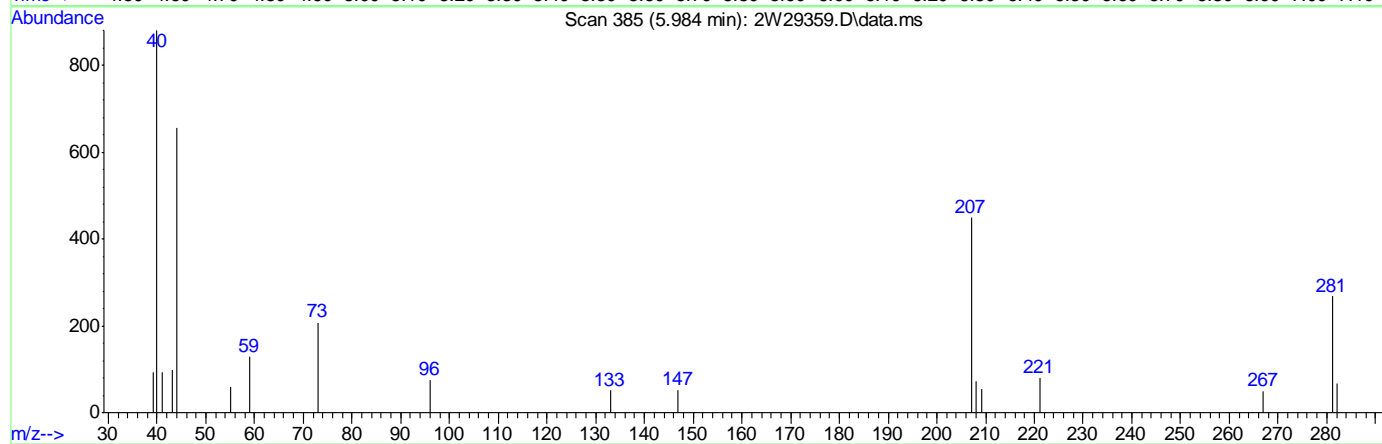
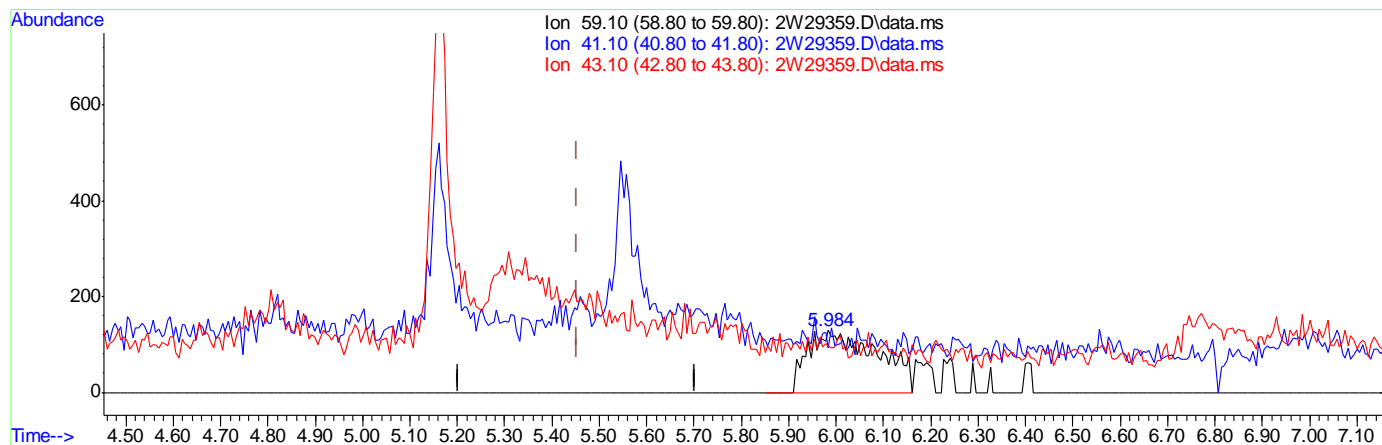
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tertiary Butyl Alcohol	75-65-0		5.98	Poor instrument integration

6.7.7.1
6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29359.D
Acq On : 21 Jan 2011 1:57 pm
Operator : YOUMINH
Sample : IC1240-0.04
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 25 09:27:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



TIC: 2W29359.D\data.ms

(30) TERTIARY BUTYL ALCOHOL

5.984min (+0.530) 0.03PPBV m

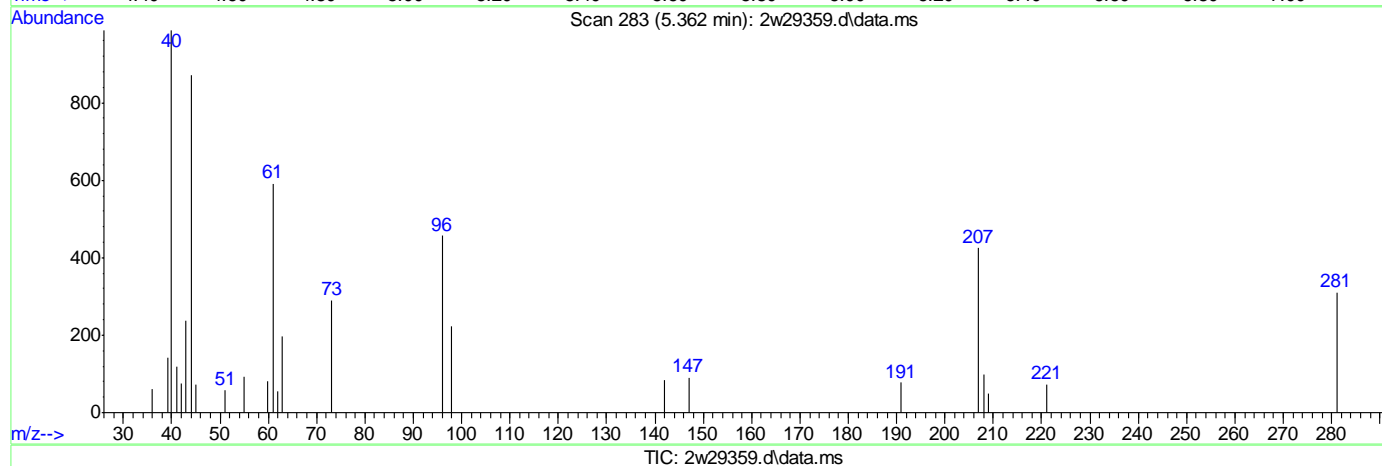
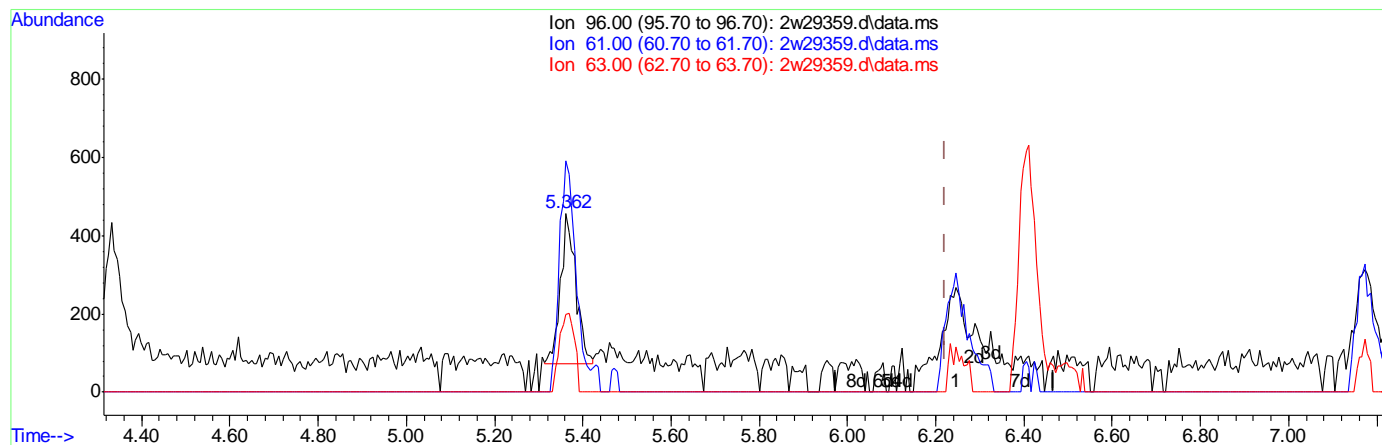
response 1305

Ion	Exp%	Act%
59.10	100	100
41.10	16.50	0.00
43.10	11.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29359.d
Acq On : 21 Jan 2011 1:57 pm
Operator : YOUMINH
Sample : IC1240-0.04
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:00:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(22) 1,1-DICHLOROETHYLENE

5.362min (-0.860) 0.04PPBV m

response 895

Ion	Exp%	Act%
96.00	100	100
61.00	143.10	0.00#
63.00	47.60	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29360.D
Acq On : 21 Jan 2011 4:13 pm
Operator : YOUMINH
Sample : IC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 11:14:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration

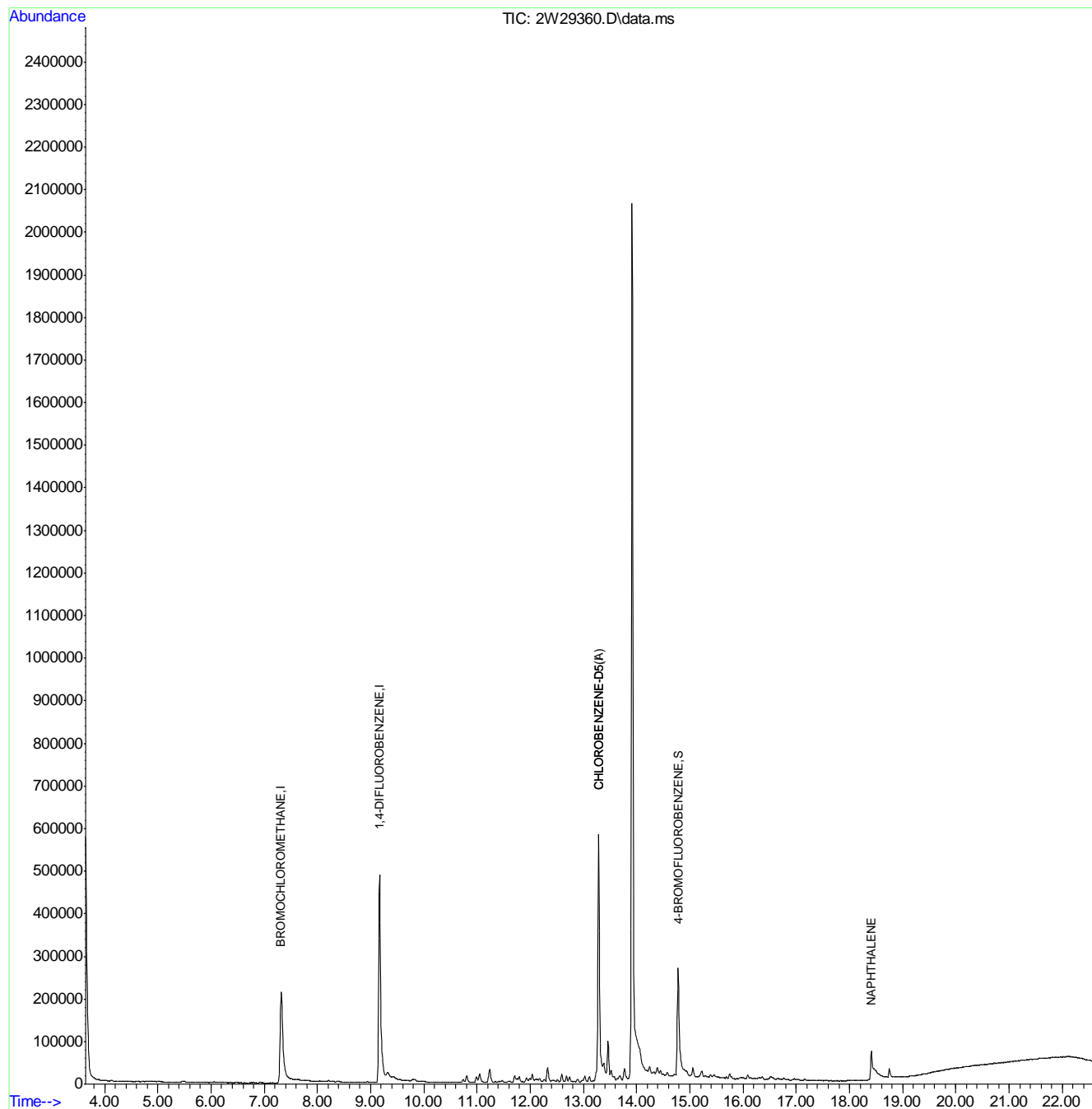
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.319	128	112522	10.00	PPBV	# 0.01
44) 1,4-DIFLUOROBENZENE	9.166	114	636749	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	259865	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.287	82	275562	10.00	PPBV	# 0.00
System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.775	95	146141	5.37	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	107.40%
Target Compounds						
94) NAPHTHALENE	18.414	128	160388	8.06	PPBV	Qvalue 87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29360.D
Acq On : 21 Jan 2011 4:13 pm
Operator : YOU MINH
Sample : IC1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 11:14:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29361.D
Acq On : 21 Jan 2011 4:51 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 11:15:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration

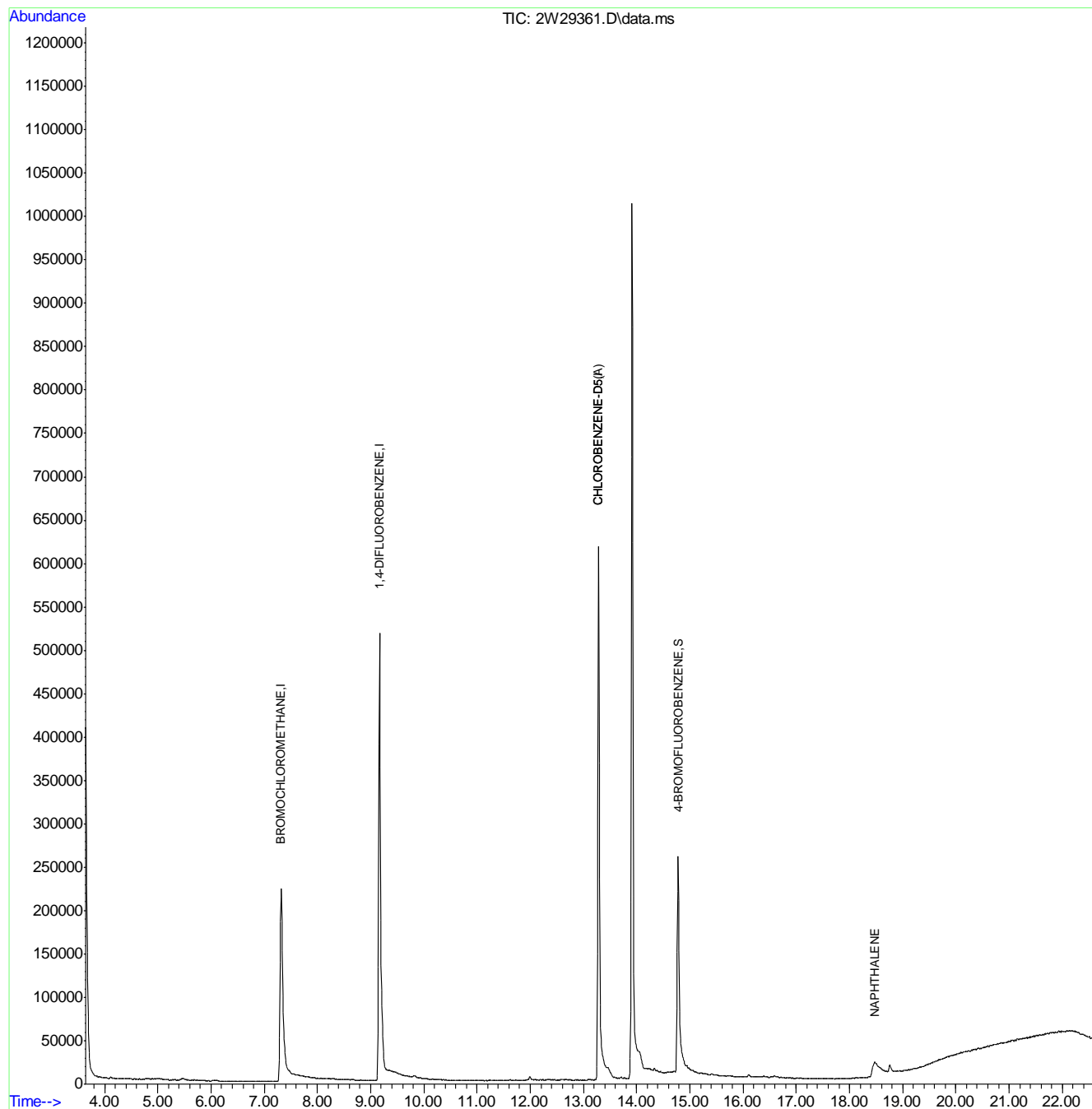
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.319	128	118678	10.00	PPBV	# 0.01
44) 1,4-DIFLUOROBENZENE	9.166	114	659127	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.281	82	283241	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.281	82	299030	10.00	PPBV	# 0.00
System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.775	95	150215	5.06	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	101.20%
Target Compounds						
94) NAPHTHALENE	18.475	128	91110m	4.22	PPBV	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29361.D
Acq On : 21 Jan 2011 4:51 pm
Operator : YOU MINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 11:15:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2W1240-IC1240

Method: TO-15

Lab FileID: 2W29361.D

Analyst approved: 01/25/11 15:48 Li Yuan

Injection Time: 01/21/11 16:51

Supervisor approved: 01/28/11 14:13 Jessica Reitan-Chu

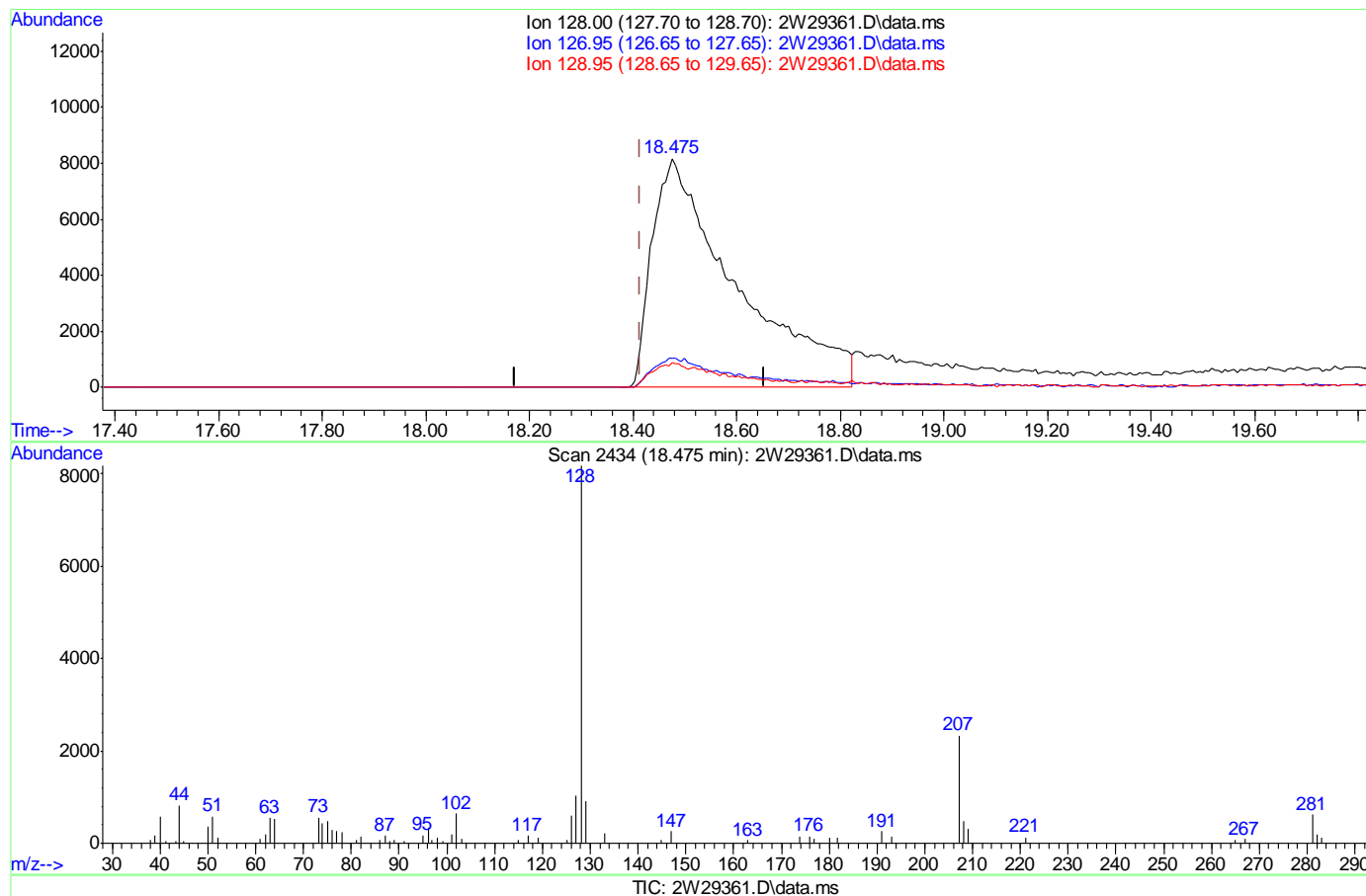
Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3		18.48	Poor instrument integration

6.7.9.1
6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29361.D
Acq On : 21 Jan 2011 4:51 pm
Operator : YOUMINH
Sample : IC1240-5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 11:15:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



(94) NAPHTHALENE

18.475min (+0.061) 4.22PPBV m

response 91110

Ion	Exp%	Act%
128.00	100	100
126.95	9.40	9.48
128.95	2.90	8.17
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29362.d
 Acq On : 21 Jan 2011 5:33 pm
 Operator : YOUMINH
 Sample : IC1240-40
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 09:01:00 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Mon Jan 24 10:22:56 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.325	128	171345	10.00	PPBV	# 0.02
44) 1,4-DIFLUOROBENZENE	9.179	114	884162	10.00	PPBV	0.01
61) CHLOROBENZENE-D5	13.294	82	487071	10.00	PPBV	# 0.01
93) CHLOROBENZENE-D5(A)	13.294	82	495015	10.00	PPBV	# 0.01

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.781	95	250824	4.92	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	98.40%

Target Compounds

Qvalue

3) DICHLORODIFLUOROMETHANE	3.832	85	2836774	29.97	PPBV	100
4) FREON 152A	3.734	65	673547	29.24	PPBV	97
5) CHLORODIFLUOROMETHANE	3.765	67	272623	30.66	PPBV	99
6) PROPYLENE	3.783	41	832269	31.31	PPBV	99
7) FREON 114	3.997	85	3352478	31.50	PPBV	97
8) CHLOROMETHANE	3.936	52	300520	30.61	PPBV	91
9) VINYL CHLORIDE	4.070	62	1156315	32.57	PPBV	99
10) 1,3-BUTADIENE	4.155	54	883673	34.21	PPBV	93
11) n-BUTANE	4.186	43	1681420	31.47	PPBV	# 95
12) BROMOMETHANE	4.326	94	1078863	33.42	PPBV	99
13) CHLOROETHANE	4.429	64	661103	34.26	PPBV	98
14) FREON 123	4.734	83	2913251	32.75	PPBV	# 75
15) FREON 123A	4.771	117	1632400	32.26	PPBV	86
16) TRICHLOROFLUOROMETHANE	4.917	101	2908857	31.32	PPBV	99
17) ISOPROPYL ALCOHOL	5.021	45	2003779	41.84	PPBV	98
18) ACETONE	4.844	58	504151	41.14	PPBV	92
19) PENTANE	5.155	42	1160591	32.85	PPBV	98
20) TVHC as EQUIV PENTANE	5.149	TIC	5749417m	4.54	PPBV	
21) IODOMETHANE	5.313	142	2769134	35.80	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.362	96	1148604m	36.85	PPBV	
23) CARBON DISULFIDE	5.691	76	2894309	33.07	PPBV	95
24) ETHANOL	4.576	45	366906	36.62	PPBV	99
25) BROMOETHENE	4.649	106	1095567	35.78	PPBV	99
26) METHYLENE CHLORIDE	5.448	84	945665	35.02	PPBV	87
27) 3-CHLOROPROPENE	5.545	76	540624	41.99	PPBV	# 57
28) FREON 113	5.661	151	1853836	32.50	PPBV	95
29) TRANS-1,2-DICHLOROETHY...	6.228	96	1140646	38.00	PPBV	93
30) TERTIARY BUTYL ALCOHOL	5.441	59	2519923	41.63	PPBV	96
31) METHYL TERTIARY BUTYL ...	6.484	73	3586016	37.56	PPBV	96
32) TETRAHYDROFURAN	7.868	72	584104	45.84	PPBV	# 87
33) HEXANE	7.374	57	1805805	34.19	PPBV	95
34) VINYL ACETATE	6.563	86	285652m	29.73	PPBV	
35) 1,1-DICHLOROETHANE	6.411	63	2102868	34.97	PPBV	100
36) METHYL ETHYL KETONE	6.813	72	572724	51.06	PPBV	# 70
37) cis-1,2-DICHLOROETHYLENE	7.173	96	1194486	42.03	PPBV	90
38) ETHYL ACETATE	7.423	61	336697	45.54	PPBV	# 51
39) CHLOROFORM	7.453	83	2404681	37.36	PPBV	98
40) 2,4-DIMETHYLPENTANE	8.221	57	2445437	33.73	PPBV	95
41) 1,1,1-TRICHLOROETHANE	8.386	97	2580960	33.41	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29362.d
Acq On : 21 Jan 2011 5:33 pm
Operator : YOU MINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 09:01:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.965	117	2583563	32.88	PPBV	100
43) 1,2-DICHLOROETHANE	8.142	62	1383061	42.31	PPBV	99
45) BENZENE	8.825	78	3658561	37.45	PPBV	98
46) CYCLOHEXANE	9.081	56	2044950	33.68	PPBV #	78
47) 2,3-DIMETHYLPENTANE	9.331	71	958746	33.44	PPBV	93
48) TRICHLOROETHYLENE	9.837	95	1498832	36.88	PPBV	93
49) 1,2-DICHLOROPROPANE	9.605	63	1372290	40.40	PPBV	98
50) BROMODICHLOROMETHANE	9.788	83	2465491	39.19	PPBV	96
51) 2,2,4-TRIMETHYLPENTANE	9.892	57	6395905	33.60	PPBV	97
52) 1,4-DIOXANE	9.880	88	780480	72.72	PPBV #	1
53) METHYL METHACRYLATE	10.075	69	1388185	46.02	PPBV #	38
54) HEPTANE	10.154	43	2066525	36.40	PPBV	90
55) TVHC as EQUIV HEPTANE	10.136	TIC	9417639m	7.90	PPBV	
56) METHYL ISOBUTYL KETONE	10.739	58	1093928	45.79	PPBV	90
57) cis-1,3-DICHLOROPROPENE	10.672	75	1901301	43.49	PPBV	91
58) TOLUENE	11.605	92	2536126	41.48	PPBV	98
59) trans-1,3-DICHLOROPROPENE	11.184	75	1473541	56.77	PPBV	91
60) 1,1,2-TRICHLOROETHANE	11.337	83	1221141	42.77	PPBV	97
62) 2-HEXANONE	11.904	58	1274819	44.58	PPBV	92
63) TETRACHLOROETHYLENE	12.684	164	1447705	31.91	PPBV	99
64) DIBROMOCHLOROMETHANE	11.995	129	2302603	34.97	PPBV	99
65) 1,2-DIBROMOETHANE	12.227	107	1781330	39.23	PPBV	100
66) OCTANE	12.592	43	2800209	33.08	PPBV	91
67) 1,1,1,2-TETRACHLOROETHANE	13.318	131	1811730	30.86	PPBV #	42
68) CHLOROBENZENE	13.336	112	2815710	34.75	PPBV	95
69) ETHYLBENZENE	13.708	91	5333941	36.10	PPBV	98
70) m,p-XYLENE	13.891	106	3940453	71.54	PPBV	93
71) o-XYLENE	14.336	106	1910906	35.01	PPBV	94
72) STYRENE	14.232	104	2707016	45.23	PPBV	97
73) NONANE	14.592	43	2658968	37.03	PPBV	93
74) BROMOFORM	13.928	173	1993482	37.57	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.330	83	2495709	34.74	PPBV	99
77) ISOPROPYLBENZENE	14.927	105	5738441	35.73	PPBV	98
78) 2-CHLOROTOLUENE	15.397	126	1231385	38.81	PPBV #	1
79) n-PROPYLBENZENE	15.452	120	1440272	39.35	PPBV #	28
80) 4-ETHYLTOLUENE	15.598	105	4921293	43.42	PPBV	98
81) 1,3,5-TRIMETHYLBENZENE	15.683	105	4261619	40.84	PPBV	97
82) TERT-BUTYLBENZENE	16.080	134	965506	37.63	PPBV	90
83) 1,2,4-TRIMETHYLBENZENE	16.086	105	3740025	41.29	PPBV	92
84) m-DICHLOROBENZENE	16.226	146	1861727	49.28	PPBV	100
85) BENZYL CHLORIDE	16.214	91	2349223	49.86	PPBV	98
86) p-DICHLOROBENZENE	16.293	146	1799073	47.21	PPBV	99
87) SEC-BUTYLBENZENE	16.354	134	1156959	37.86	PPBV	94
88) p-ISOPROPYLTOLUENE	16.519	134	1071892	44.02	PPBV	96
89) o-DICHLOROBENZENE	16.628	146	1733363	45.98	PPBV	99
90) n-BUTYLBENZENE	16.933	134	870201	44.70	PPBV	89
91) HEXACHLOROBUTADIENE	18.744	225	672260	35.78	PPBV	99
92) 1,2,4-TRICHLOROBENZENE	18.305	180	436023	40.28	PPBV	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29362.d
Acq On : 21 Jan 2011 5:33 pm
Operator : YOUMINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 09:01:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration

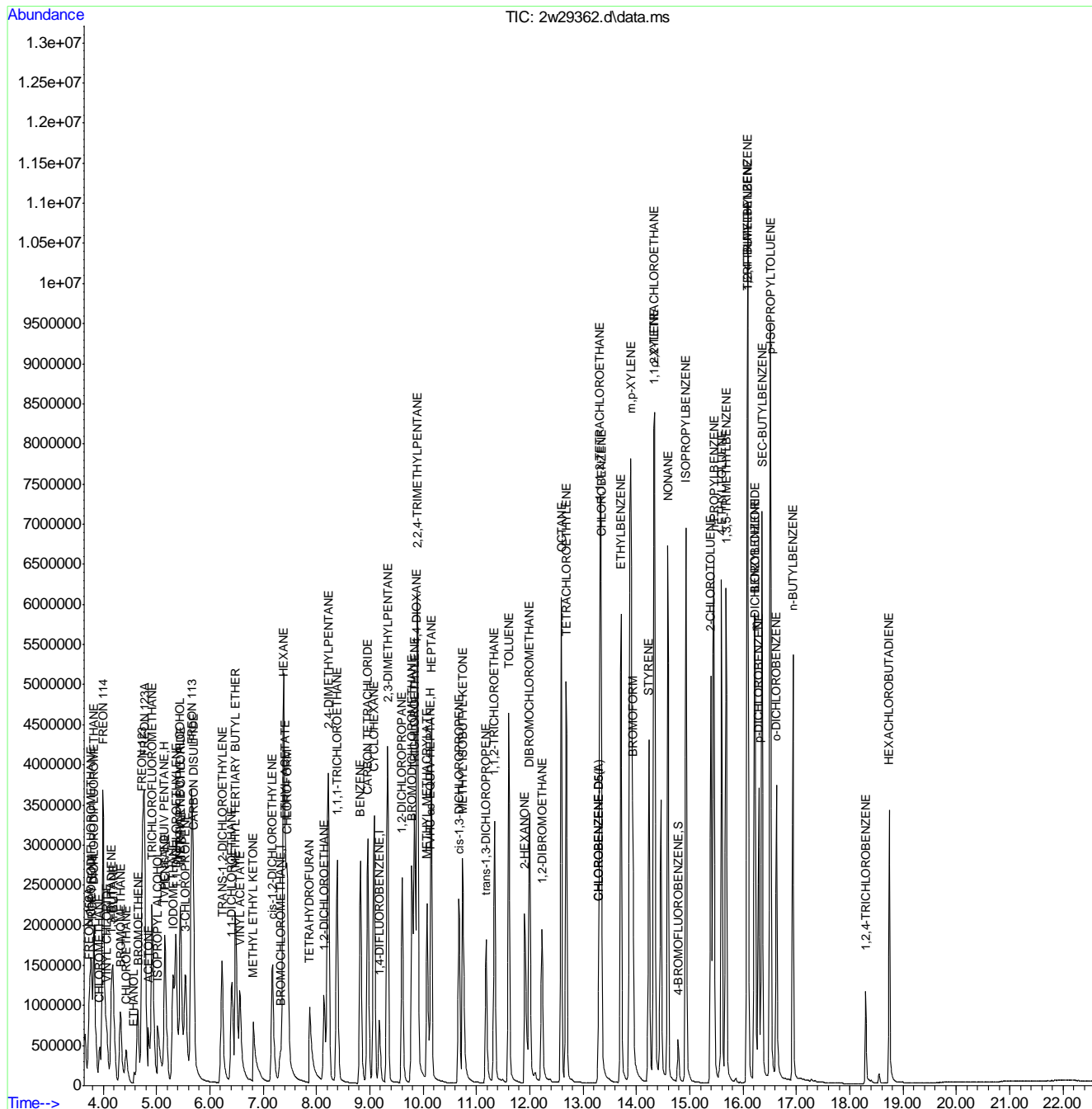
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)= qualifier out of range (m)= manual integration (+)= signals summed						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29362.d
Acq On : 21 Jan 2011 5:33 pm
Operator : YOUMINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 09:01:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w\Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2W1240-IC1240

Method: TO-15

Lab FileID: 2W29362.D

Analyst approved: 01/25/11 15:48 Li Yuan

Injection Time: 01/21/11 17:33

Supervisor approved: 01/28/11 14:13 Jessica Reitan-Chu

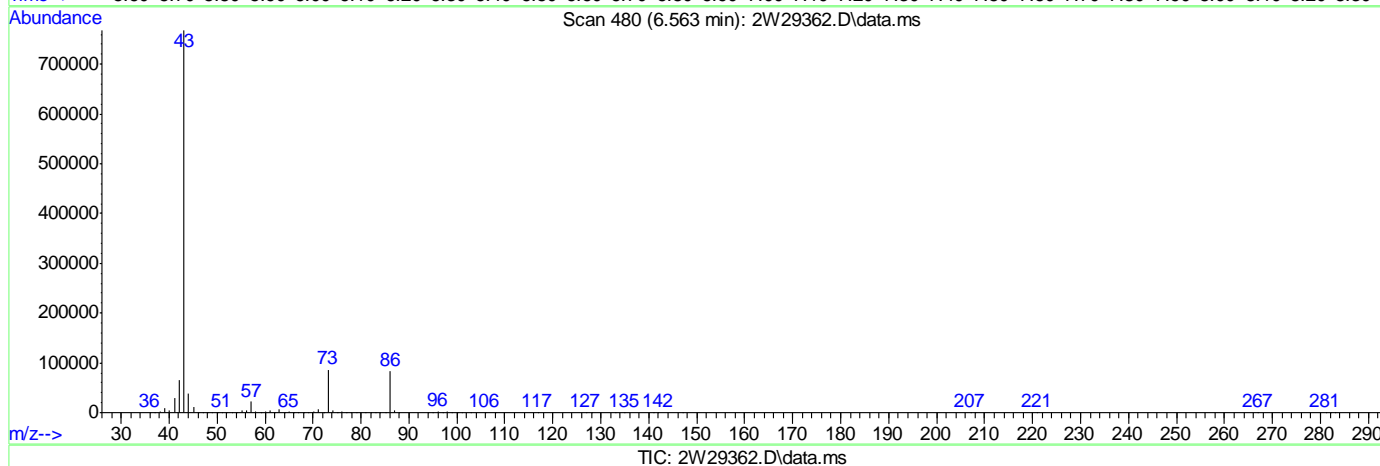
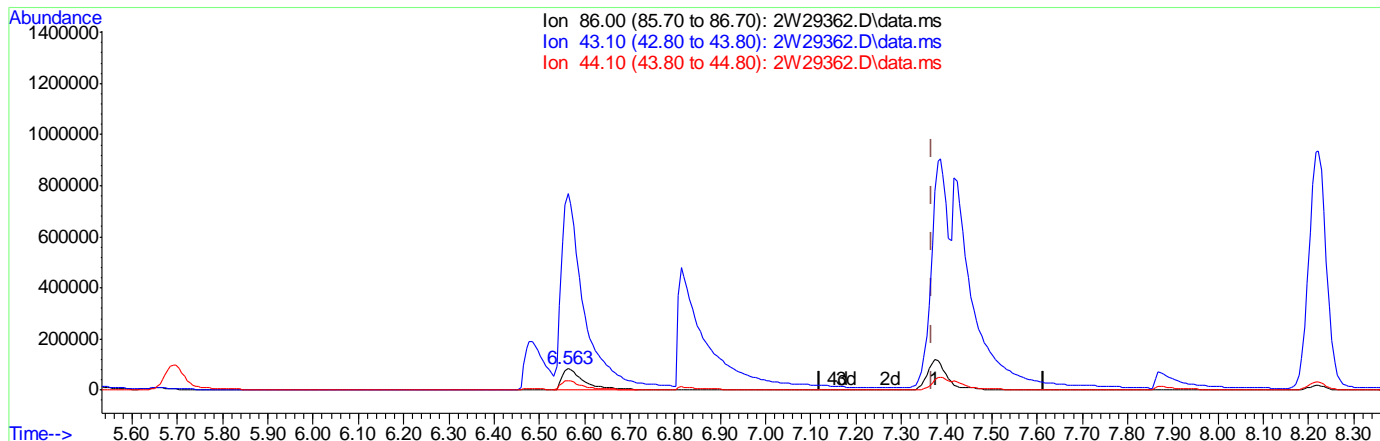
Parameter	CAS	Sig#	R.T. (min.)	Reason
Vinyl Acetate	108-05-4		6.56	Missed peak

6.7.10.1
6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29362.D
Acq On : 21 Jan 2011 5:33 pm
Operator : YOUMINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:27:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(34) VINYL ACETATE

6.563min (-0.805) 29.73PPBV m

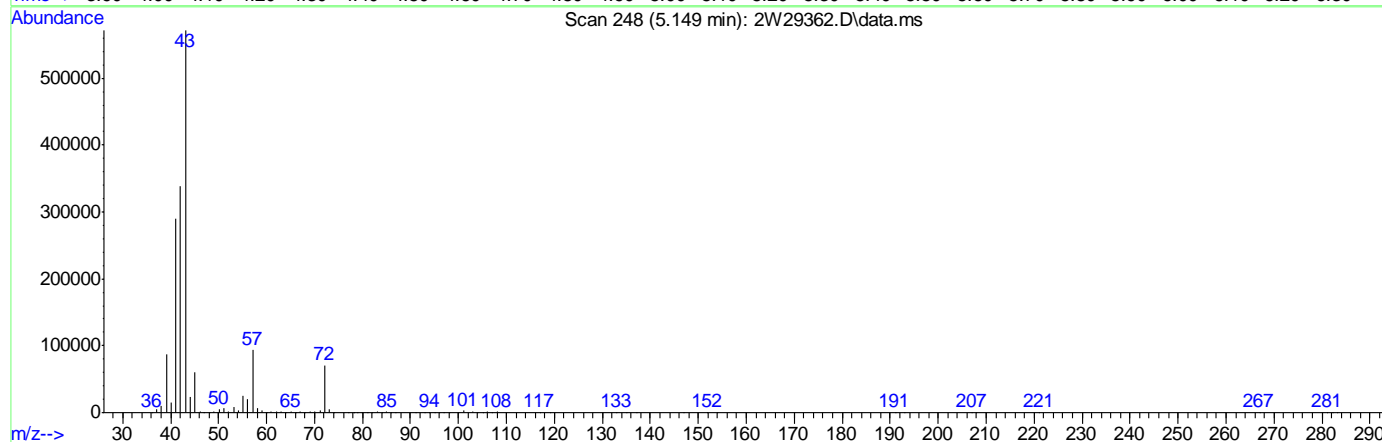
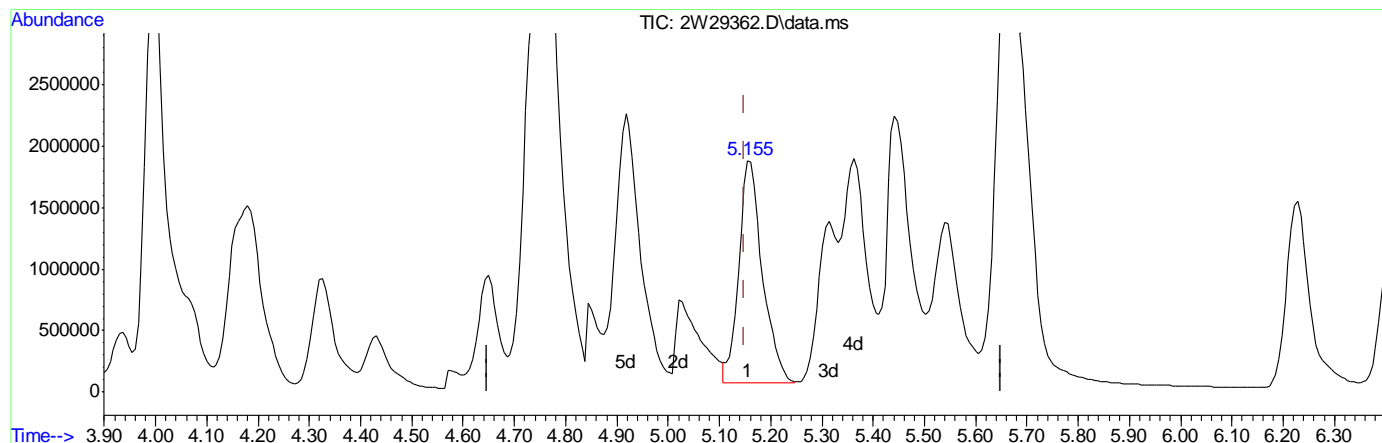
response 285652

Ion	Exp%	Act%
86.00	100	100
43.10	700.50	839.80#
44.10	43.90	75.33#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29362.D
Acq On : 21 Jan 2011 5:33 pm
Operator : YOU MINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:27:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (0.000) 4.54PPBV m

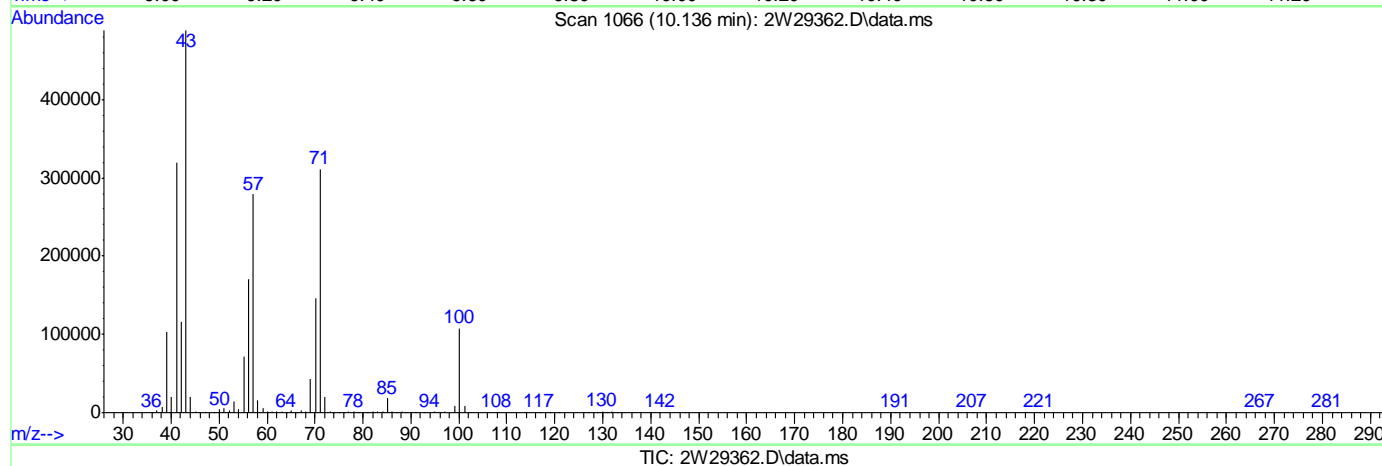
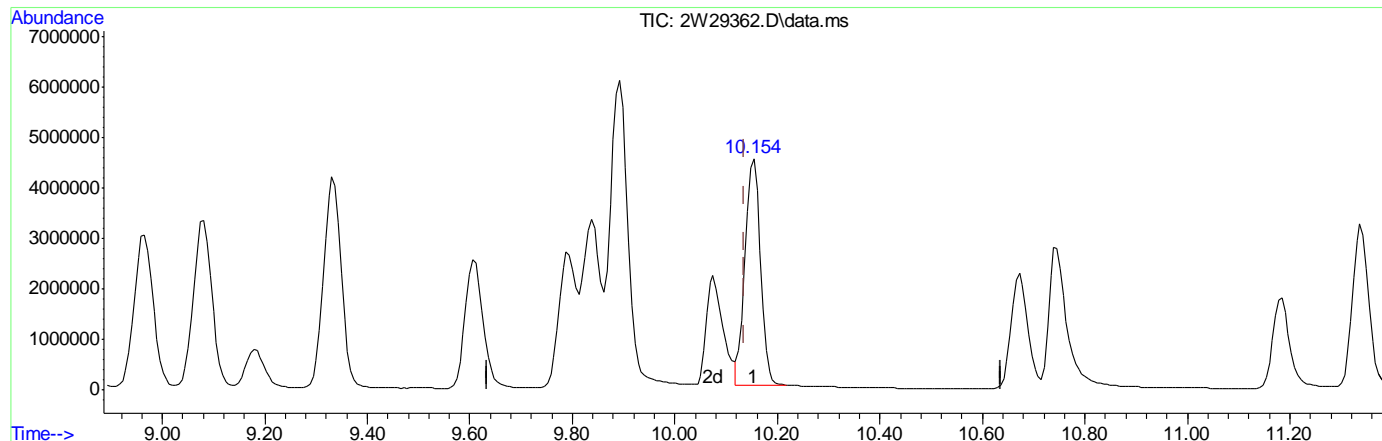
response 5749417

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29362.D
Acq On : 21 Jan 2011 5:33 pm
Operator : YOUMINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 25 09:27:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.136min (0.000) 7.90PPBV m

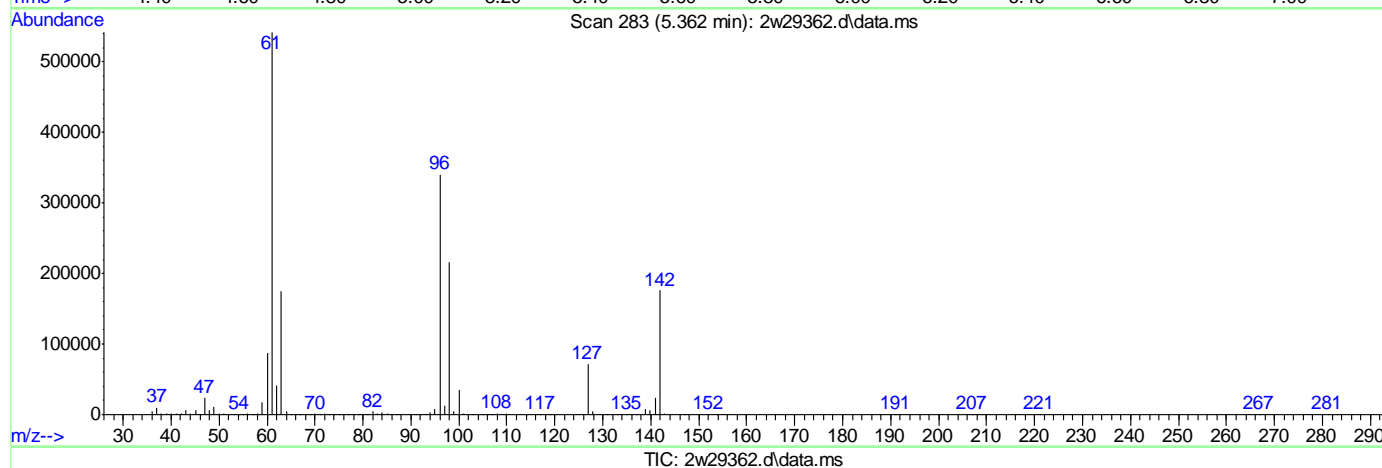
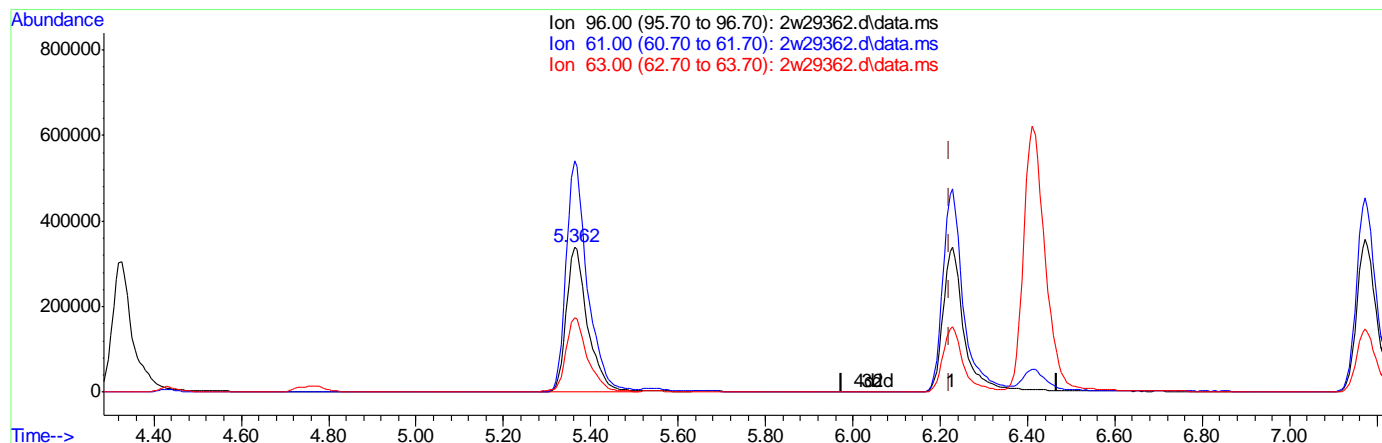
response 9417639

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29362.d
Acq On : 21 Jan 2011 5:33 pm
Operator : YOUMINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 09:01:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:22:56 2011
Response via : Initial Calibration



(22) 1,1-DICHLOROETHYLENE

5.362min (-0.860) 36.85PPBV m

response 1148604

Ion	Exp%	Act%
96.00	100	100
61.00	143.10	135.06
63.00	47.60	43.09
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29363.D
Acq On : 21 Jan 2011 6:13 pm
Operator : YOUMINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 12:01:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration

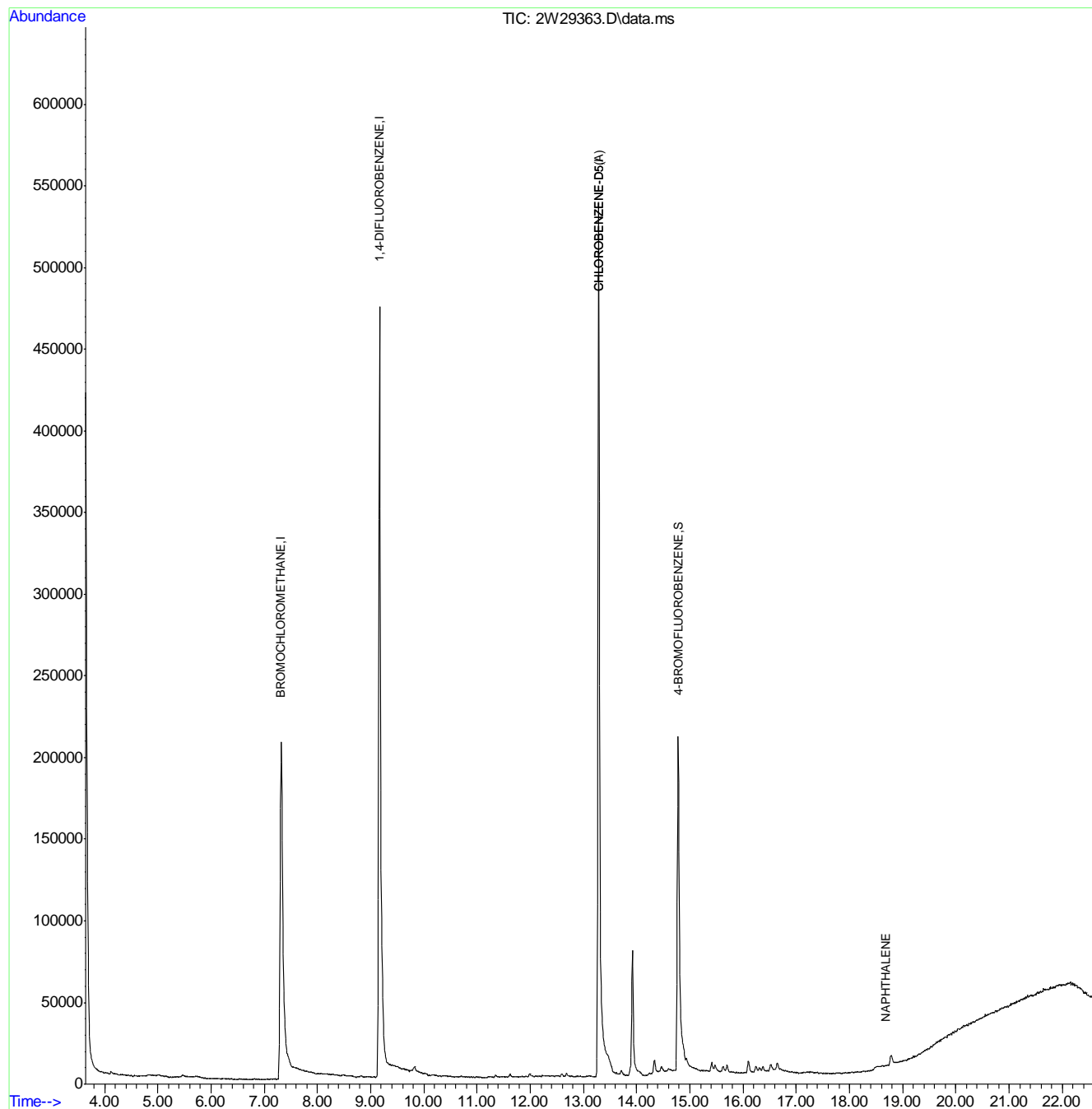
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.319	128	110233	10.00	PPBV	# 0.01
44) 1,4-DIFLUOROBENZENE	9.166	114	603711	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	253587	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.287	82	270906	10.00	PPBV	# 0.00
System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.775	95	132671	5.00	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	100.00%
Target Compounds						
94) NAPHTHALENE	18.689	128	5079m	0.26	PPBV	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29363.D
Acq On : 21 Jan 2011 6:13 pm
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 12:01:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2W1240-IC1240

Method: TO-15

Lab FileID: 2W29363.D

Analyst approved: 01/25/11 15:48 Li Yuan

Injection Time: 01/21/11 18:13

Supervisor approved: 01/28/11 14:13 Jessica Reitan-Chu

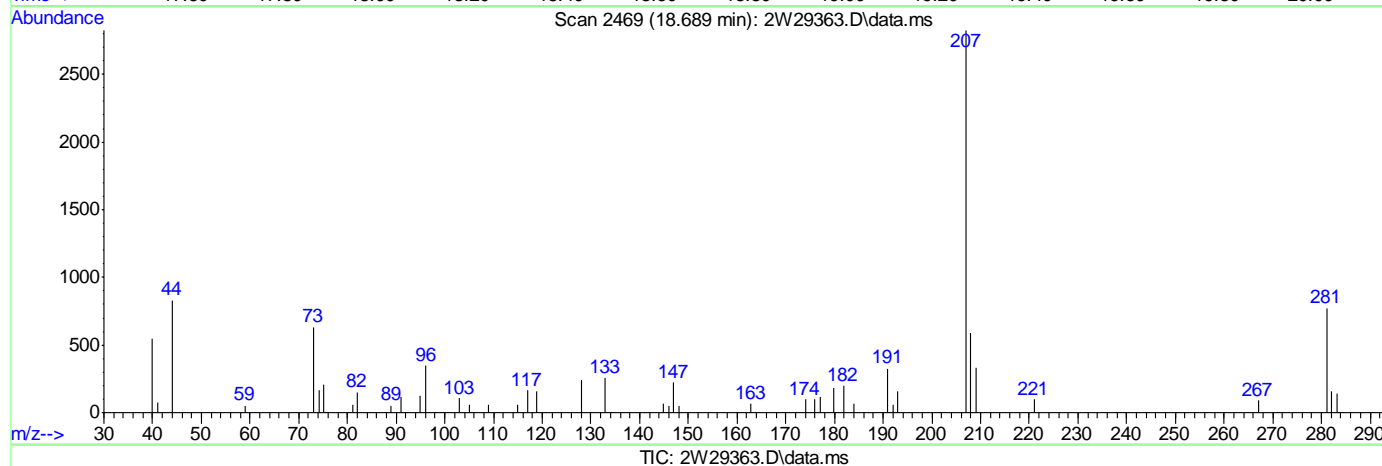
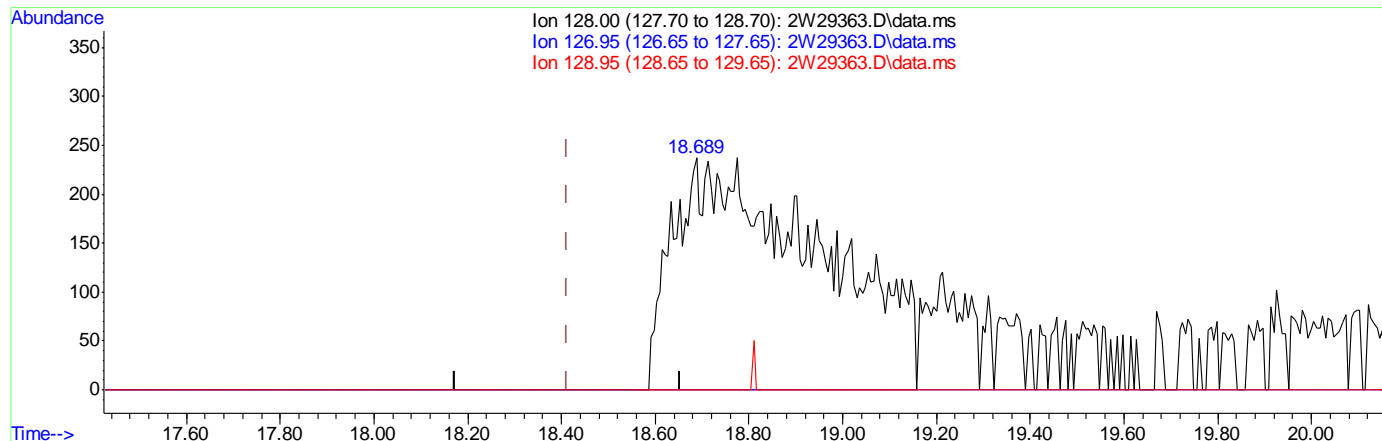
Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3		18.69	Poor instrument integration

6.7.11.1
6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29363.D
Acq On : 21 Jan 2011 6:13 pm
Operator : YOU MINH
Sample : IC1240-0.5
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 12:01:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



(94) NAPHTHALENE

18.689min (+0.275) 0.26PPBV m

response 5079

Ion	Exp%	Act%
128.00	100	100
126.95	9.40	0.00
128.95	2.90	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29364.D
Acq On : 21 Jan 2011 6:52 pm
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 12:02:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration

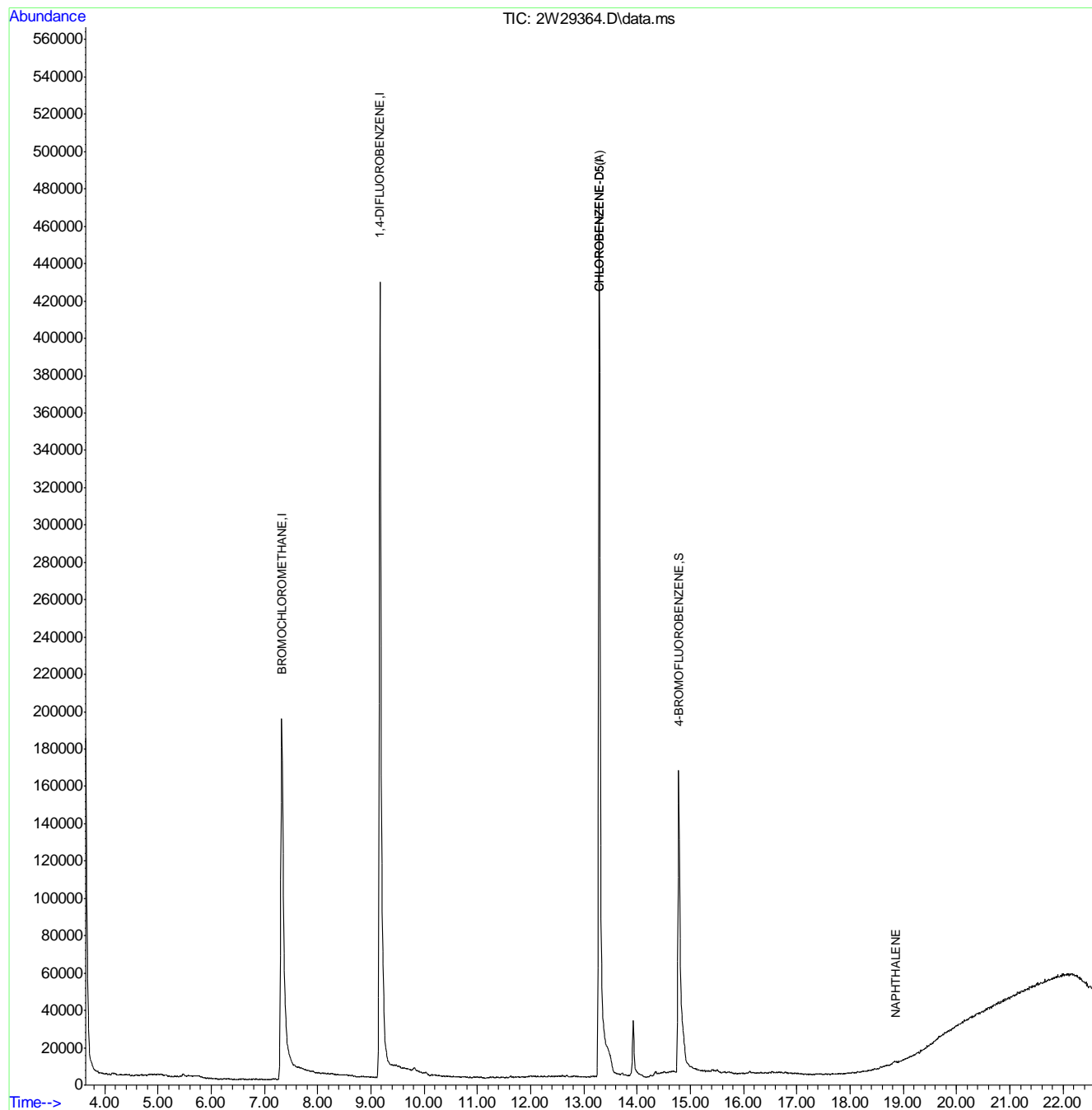
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.325	128	105216	10.00	PPBV	# 0.02
44) 1,4-DIFLUOROBENZENE	9.172	114	556681	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	234371	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.287	82	250120	10.00	PPBV	# 0.00
System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.781	95	112608	4.59	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	91.80%
Target Compounds						
94) NAPHTHALENE	18.866	128	2345m	0.13	PPBV	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29364.D
Acq On : 21 Jan 2011 6:52 pm
Operator : YOU MINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 12:02:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2W1240-IC1240

Method: TO-15

Lab FileID: 2W29364.D

Analyst approved: 01/25/11 15:48 Li Yuan

Injection Time: 01/21/11 18:52

Supervisor approved: 01/28/11 14:13 Jessica Reitan-Chu

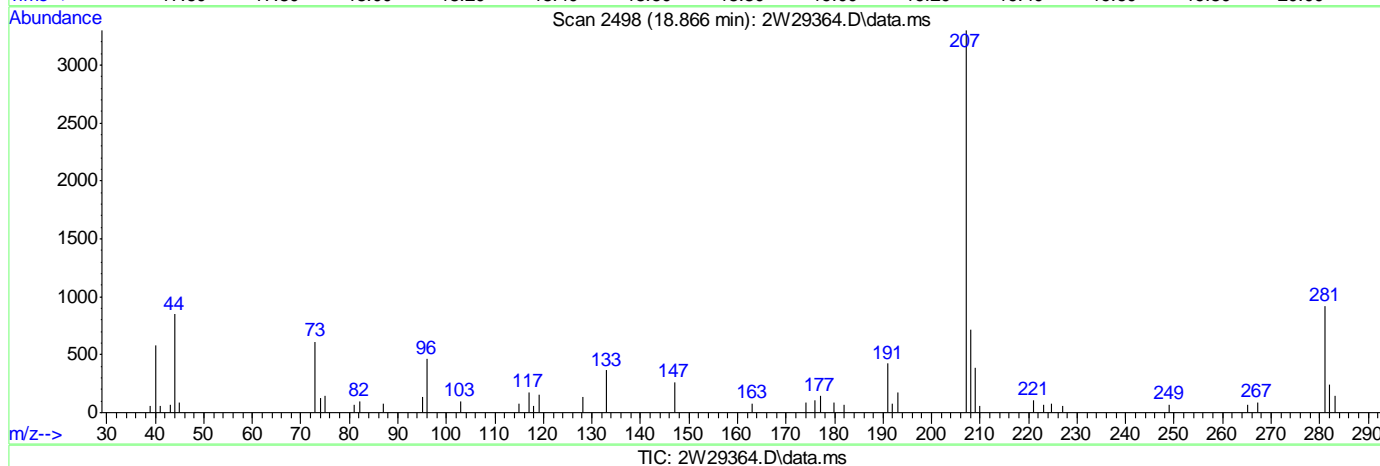
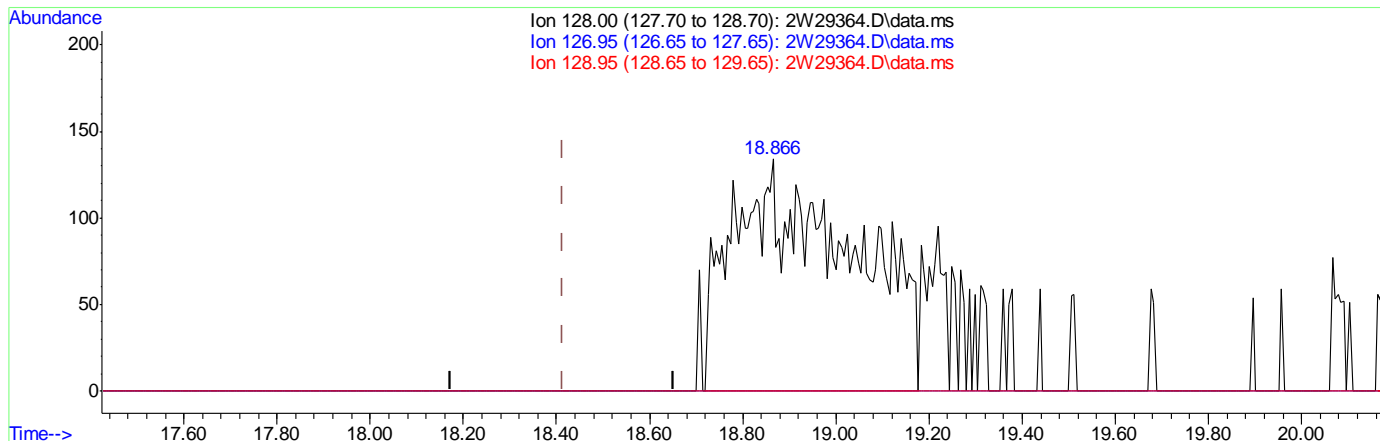
Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3		18.87	Poor instrument integration

6.7.12.1
6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29364.D
Acq On : 21 Jan 2011 6:52 pm
Operator : YOUMINH
Sample : IC1240-0.2
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 12:02:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



(94) NAPHTHALENE

18.866min (+0.452) 0.13PPBV m

response 2345

Ion	Exp%	Act%
128.00	100	100
126.95	9.40	0.00
128.95	2.90	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29366.D
Acq On : 21 Jan 2011 8:12 pm
Operator : YOUMINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 12:03:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration

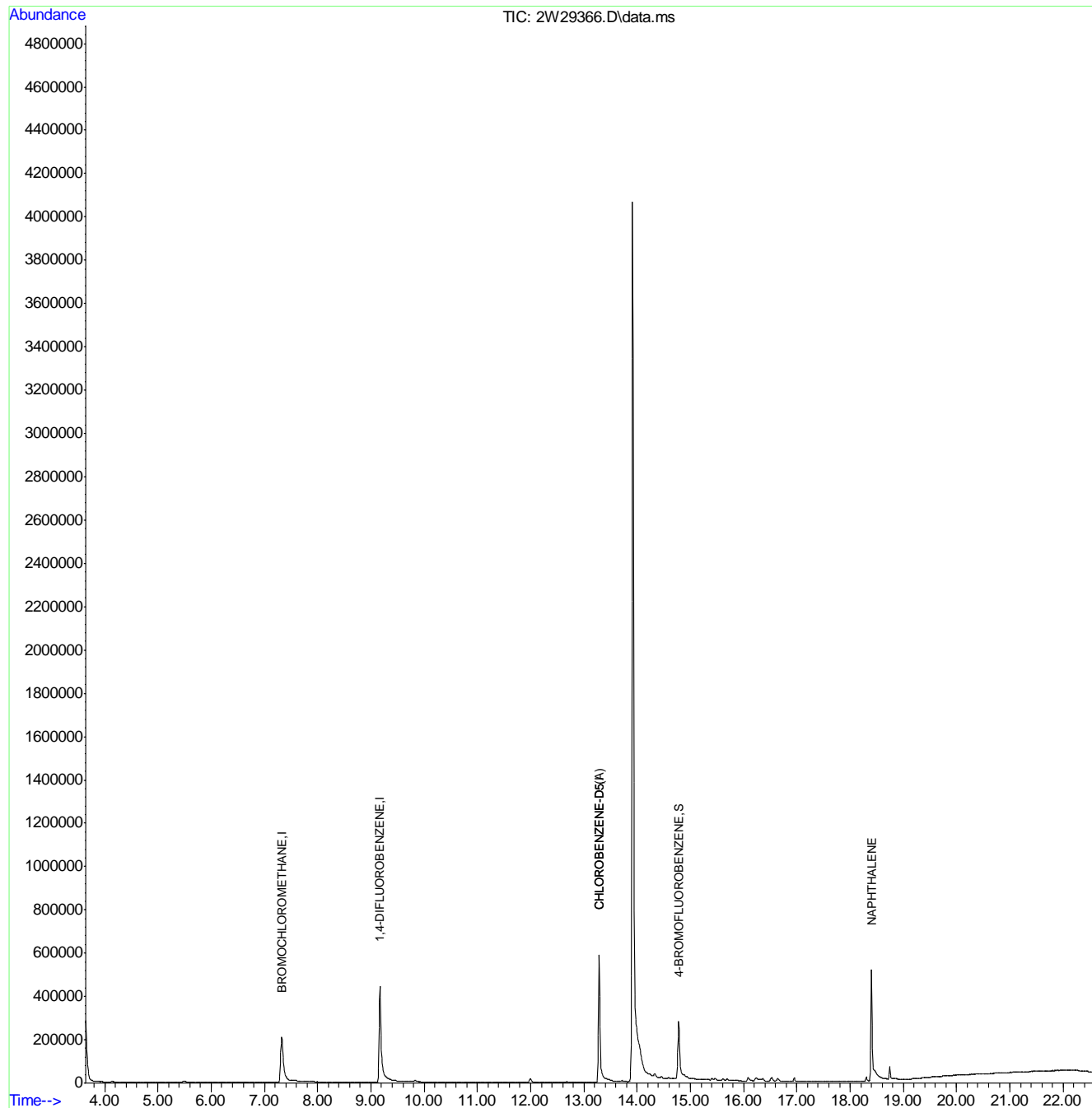
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.325	128	111648	10.00	PPBV	# 0.02
44) 1,4-DIFLUOROBENZENE	9.172	114	618706	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	264403	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.287	82	279807	10.00	PPBV	# 0.00
System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.781	95	150831	5.45	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	109.00%
Target Compounds						
94) NAPHTHALENE	18.402	128	598784	29.63	PPBV	Qvalue 87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29366.D
Acq On : 21 Jan 2011 8:12 pm
Operator : YOU MINH
Sample : IC1240-20
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 12:03:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29367.D
Acq On : 21 Jan 2011 8:54 pm
Operator : YOUMINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 12:04:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration

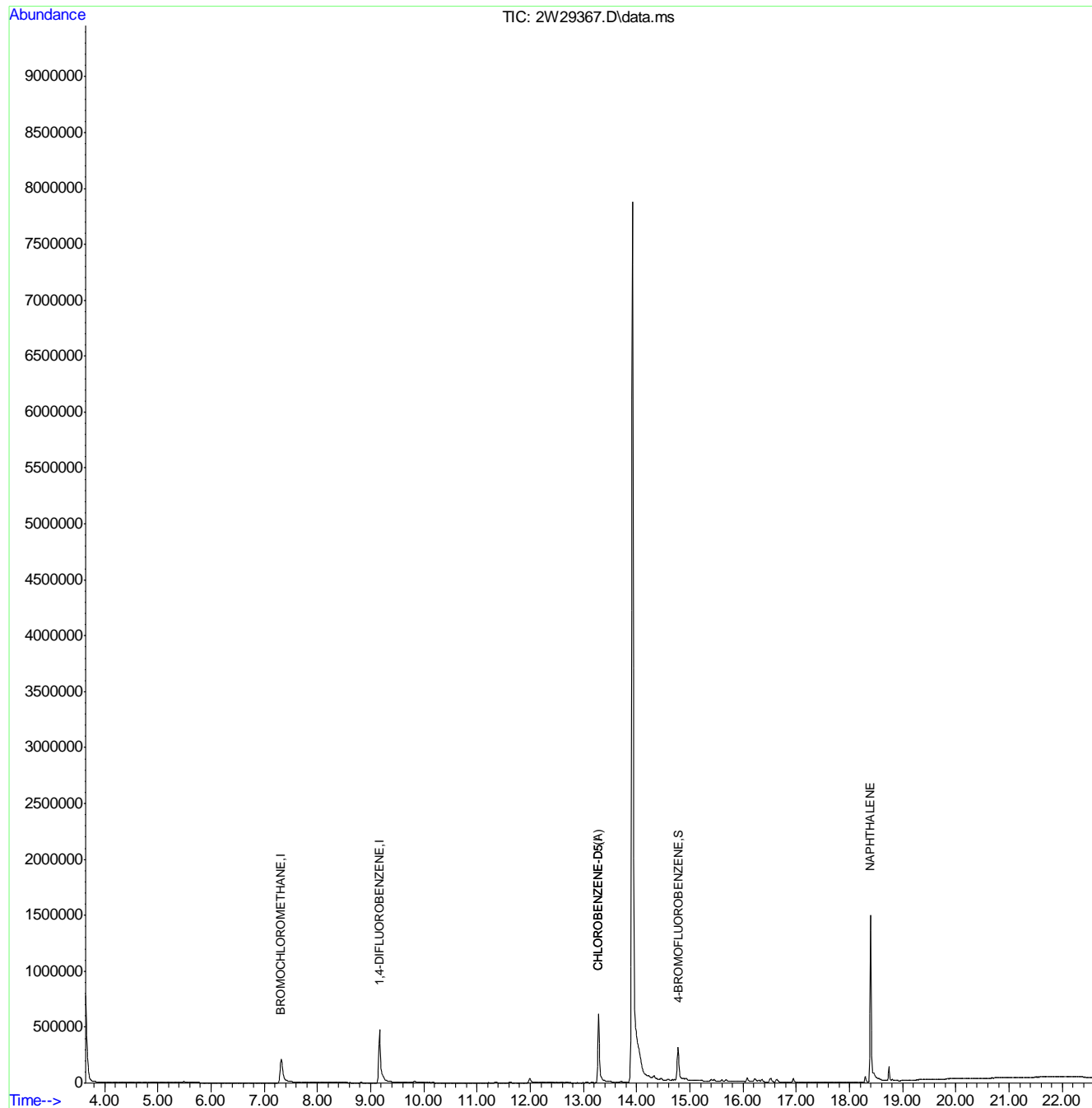
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.319	128	108580	10.00	PPBV	# 0.01
44) 1,4-DIFLUOROBENZENE	9.166	114	640553	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.281	82	273666	10.00	PPBV	# 0.00
93) CHLOROBENZENE-D5(A)	13.281	82	290907	10.00	PPBV	# 0.00
System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.775	95	157161	5.48	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	109.60%
Target Compounds						
94) NAPHTHALENE	18.396	128	1429602	68.04	PPBV	Qvalue 88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\
Data File : 2W29367.D
Acq On : 21 Jan 2011 8:54 pm
Operator : YOU MINH
Sample : IC1240-40
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 12:04:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 10:58:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29365.d
Acq On : 21 Jan 2011 7:32 pm
Operator : YOUMINH
Sample : ICV1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 10:07:02 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.319	128	155343	10.00	PPBV	0.01
44) 1,4-DIFLUOROBENZENE	9.172	114	740982	10.00	PPBV	0.00
61) CHLOROBENZENE-D5	13.287	82	352649	10.00	PPBV	0.00
93) CHLOROBENZENE-D5(A)	13.287	82	365397	10.00	PPBV	0.00

System Monitoring Compounds

75) 4-BROMOFLUOROBENZENE	14.775	95	193024	5.23	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	104.60%

Target Compounds

						Qvalue
3) DICHLORODIFLUOROMETHANE	3.832	85	660030	7.78	PPBV	99
4) FREON 152A	3.734	65	151672	7.37	PPBV	93
5) CHLORODIFLUOROMETHANE	3.765	67	61865	7.80	PPBV	100
6) PROPYLENE	3.783	41	191521	8.06	PPBV	99
7) FREON 114	3.996	85	758764	7.96	PPBV	97
8) CHLOROMETHANE	3.929	52	68886	8.37	PPBV #	86
9) VINYL CHLORIDE	4.070	62	257743	8.11	PPBV	100
10) 1,3-BUTADIENE	4.155	54	192798	8.34	PPBV	92
11) n-BUTANE	4.185	43	389634	8.57	PPBV #	90
12) BROMOMETHANE	4.326	94	238783	8.26	PPBV	99
13) CHLOROETHANE	4.429	64	143913	8.33	PPBV	98
14) FREON 123	4.734	83	649578	8.16	PPBV #	75
15) FREON 123A	4.771	117	364142	8.04	PPBV	86
16) TRICHLOROFLUOROMETHANE	4.917	101	649524	7.81	PPBV	100
17) ISOPROPYL ALCOHOL	5.106	45	346473	8.18	PPBV	86
18) ACETONE	4.947	58	83362	7.70	PPBV #	77
19) PENTANE	5.155	42	267371	8.47	PPBV	94
20) TVHC as EQUIV PENTANE	5.149	TIC	1333578m	8.98	PPBV	
21) IODOMETHANE	5.307	142	594204	8.59	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.362	96	249403	8.72	PPBV #	85
23) CARBON DISULFIDE	5.691	76	617370	7.88	PPBV	95
24) ETHANOL	4.649	45	67180	7.50	PPBV	98
25) BROMOETHENE	4.649	106	236523	8.63	PPBV	99
26) METHYLENE CHLORIDE	5.447	84	200013	8.31	PPBV	89
27) 3-CHLOROPROPENE	5.539	76	105862	9.20	PPBV #	26
28) FREON 113	5.655	151	412749	8.08	PPBV	94
29) TRANS-1,2-DICHLOROETHY...	6.222	96	226845	8.46	PPBV	93
30) TERTIARY BUTYL ALCOHOL	5.490	59	439681	8.30	PPBV #	77
31) METHYL TERTIARY BUTYL ...	6.508	73	696475	8.55	PPBV	96
32) TETRAHYDROFURAN	7.996	72	84523	7.54	PPBV	92
33) HEXANE	7.374	57	394081	8.33	PPBV	96
34) VINYL ACETATE	6.587	86	46600	9.76	PPBV #	54
35) 1,1-DICHLOROETHANE	6.404	63	460832	8.56	PPBV	99
36) METHYL ETHYL KETONE	6.929	72	77466	7.79	PPBV #	56
37) cis-1,2-DICHLOROETHYLENE	7.167	96	235511	9.27	PPBV	89
38) ETHYL ACETATE	7.484	61	49502	7.45	PPBV #	80
39) CHLOROFORM	7.435	83	513702	8.93	PPBV	98
40) 2,4-DIMETHYLPENTANE	8.215	57	532474	8.20	PPBV	95
41) 1,1,1-TRICHLOROETHANE	8.380	97	564766	8.17	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w29365.d
 Acq On : 21 Jan 2011 7:32 pm
 Operator : YOU MINH
 Sample : ICV1240-10
 Misc : MS2686,V2W1240,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 10:07:02 2011
 Quant Method : C:\msdchem\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Tue Jan 25 11:19:02 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.953	117	573989	8.16	PPBV	100
43) 1,2-DICHLOROETHANE	8.136	62	266742	9.13	PPBV	99
45) BENZENE	8.819	78	761675	9.30	PPBV	98
46) CYCLOHEXANE	9.075	56	443315	8.71	PPBV #	79
47) 2,3-DIMETHYLPENTANE	9.325	71	208008	8.66	PPBV	91
48) TRICHLOROETHYLENE	9.831	95	299581	8.80	PPBV	94
49) 1,2-DICHLOROPROPANE	9.599	63	283991	9.98	PPBV	98
50) BROMODICHLOROMETHANE	9.782	83	535458	10.16	PPBV	99
51) 2,2,4-TRIMETHYLPENTANE	9.886	57	1383550	8.67	PPBV	99
52) 1,4-DIOXANE	10.001	88	116333	9.77	PPBV #	83
53) METHYL METHACRYLATE	10.087	69	232689	9.12	PPBV #	22
54) HEPTANE	10.142	43	448907	9.44	PPBV	89
55) TVHC as EQUIV HEPTANE	10.136	TIC	2162707m	10.37	PPBV	
56) METHYL ISOBUTYL KETONE	10.769	58	180319	9.01	PPBV	89
57) cis-1,3-DICHLOROPROPENE	10.666	75	352562	9.84	PPBV	91
58) TOLUENE	11.599	92	503375	9.82	PPBV	98
59) trans-1,3-DICHLOROPROPENE	11.178	75	252159	10.31	PPBV	91
60) 1,1,2-TRICHLOROETHANE	11.330	83	244414	10.22	PPBV	97
62) 2-HEXANONE	11.940	58	178259	8.50	PPBV	89
63) TETRACHLOROETHYLENE	12.678	164	302169	9.20	PPBV	99
64) DIBROMOCHLOROMETHANE	11.989	129	471255	9.89	PPBV	100
65) 1,2-DIBROMOETHANE	12.220	107	323388	9.84	PPBV	100
66) OCTANE	12.586	43	604710	9.87	PPBV	88
67) 1,1,1,2-TETRACHLOROETHANE	13.312	131	390474	9.19	PPBV #	1
68) CHLOROBENZENE	13.330	112	546950	9.32	PPBV	96
69) ETHYLBENZENE	13.702	91	1021779	9.55	PPBV	98
70) m,p-XYLENE	13.879	106	774434	19.42	PPBV	95
71) o-XYLENE	14.330	106	385797	9.76	PPBV	95
72) STYRENE	14.226	104	443790	10.24	PPBV	97
73) NONANE	14.586	43	564565	10.86	PPBV	92
74) BROMOFORM	13.921	173	381378	9.93	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.318	83	500234	9.62	PPBV	99
77) ISOPROPYLBENZENE	14.921	105	1156952	9.95	PPBV	98
78) 2-CHLOROTOLUENE	15.391	126	235712	10.01	PPBV #	1
79) n-PROPYLBENZENE	15.439	120	268335	10.12	PPBV #	34
80) 4-ETHYLTOLUENE	15.592	105	884270	10.78	PPBV	97
81) 1,3,5-TRIMETHYLBENZENE	15.671	105	831227	10.68	PPBV	97
82) TERT-BUTYLBENZENE	16.073	134	202438	10.90	PPBV	90
83) 1,2,4-TRIMETHYLBENZENE	16.079	105	719400	10.97	PPBV	98
84) m-DICHLOROBENZENE	16.214	146	303363	10.40	PPBV	100
85) BENZYL CHLORIDE	16.201	91	373264	10.94	PPBV	97
86) p-DICHLOROBENZENE	16.287	146	300039	10.23	PPBV	99
87) SEC-BUTYLBENZENE	16.348	134	230437	10.42	PPBV	91
88) p-ISOPROPYLTOLUENE	16.512	134	197916	10.88	PPBV	94
89) o-DICHLOROBENZENE	16.622	146	291183	10.38	PPBV	99
90) n-BUTYLBENZENE	16.927	134	130586	9.54	PPBV	85
91) HEXACHLOROBUTADIENE	18.744	225	156353	11.49	PPBV	100
92) 1,2,4-TRICHLOROBENZENE	18.311	180	72257	9.26	PPBV #	77
94) NAPHTHALENE	18.463	128	1991	0.08	PPBV	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29365.d
Acq On : 21 Jan 2011 7:32 pm
Operator : YOU MINH
Sample : ICV1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 10:07:02 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

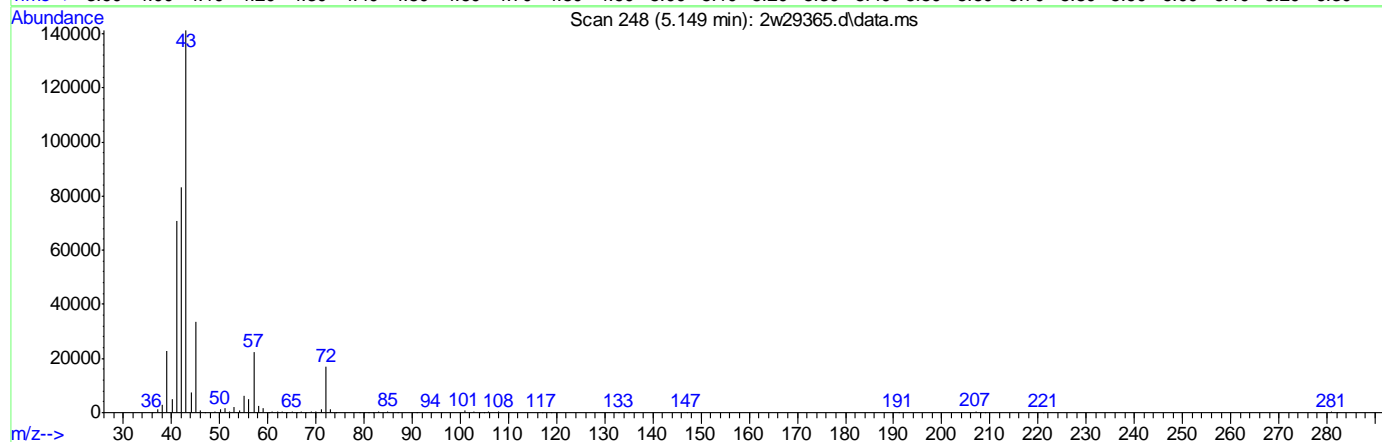
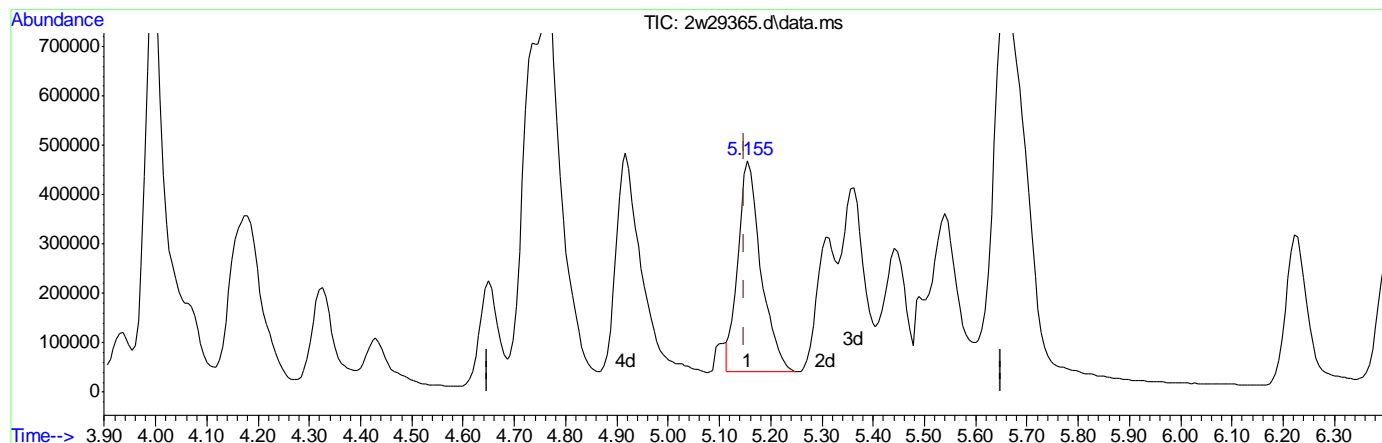
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29365.d
Acq On : 21 Jan 2011 7:32 pm
Operator : YOUMINH
Sample : ICV1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 10:07:02 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.149min (0.000) 8.98PPBV m

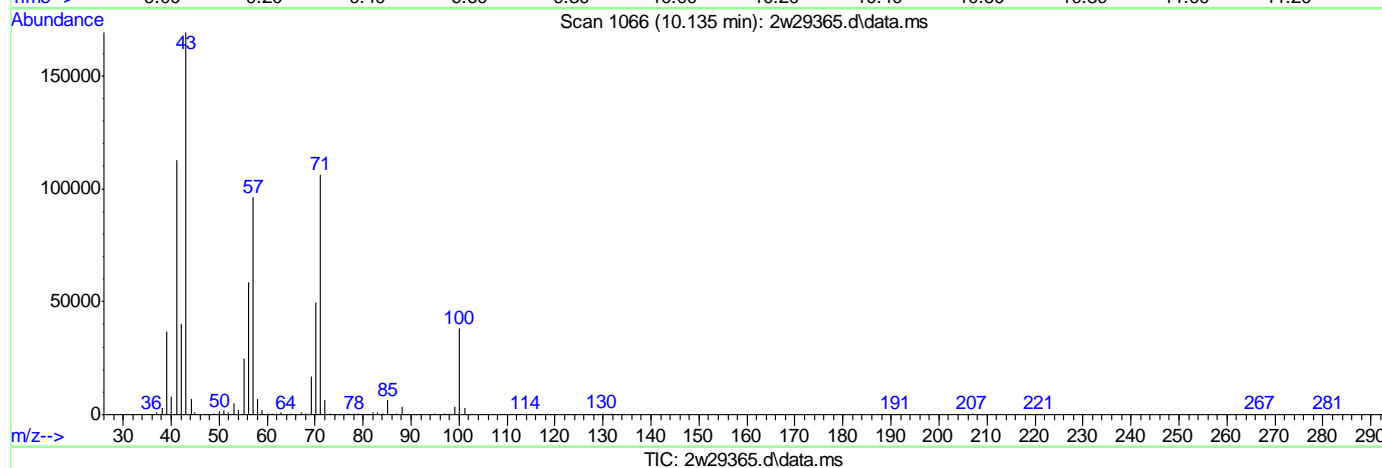
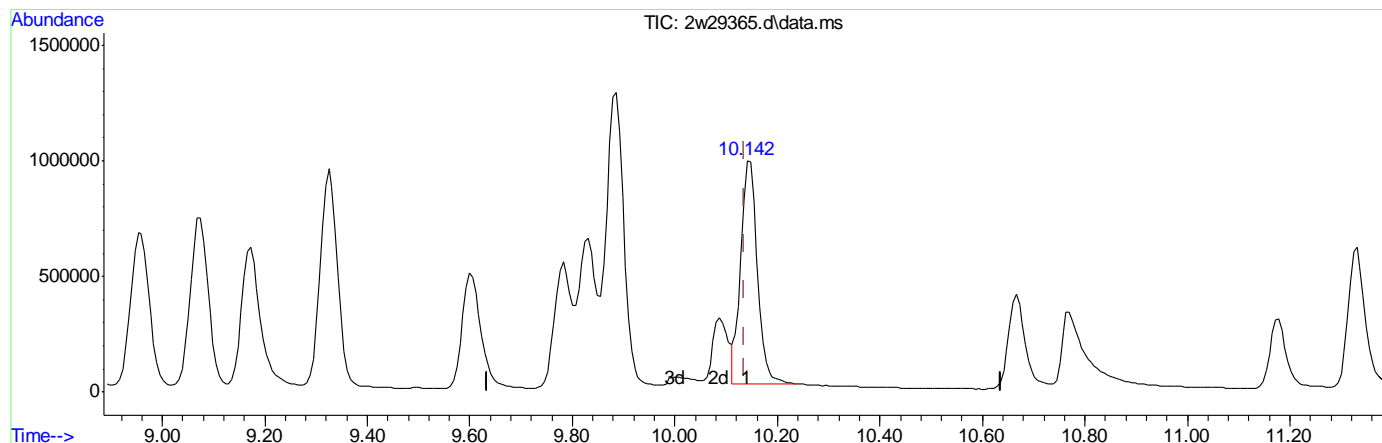
response 1333578

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.01#
0.00	0.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w29365.d
Acq On : 21 Jan 2011 7:32 pm
Operator : YOU MINH
Sample : ICV1240-10
Misc : MS2686,V2W1240,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 10:07:02 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.136min (0.000) 10.37PPBV m

response 2162707

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.01#
0.00	0.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
 Data File : 2W29758.D
 Acq On : 14 Feb 2011 7:33 am
 Operator : YOUMINH
 Sample : CC1240-10
 Misc : MS8244,V2W1256,400,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 17:45:23 2011
 Quant Method : C:\msdchem\1\METHODS\M2W1240.M
 Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
 QLast Update : Tue Jan 25 11:19:02 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.301	128	227535	10.00	PPBV	0.00
44) 1,4-DIFLUOROBENZENE	9.154	114	1165548	10.00	PPBV	-0.01
61) CHLOROBENZENE-D5	13.275	82	553108	10.00	PPBV	0.00
93) CHLOROBENZENE-D5(A)	13.275	82	575964	10.00	PPBV	0.00

System Monitoring Compounds						
75) 4-BROMOFLUOROBENZENE	14.763	95	279419	4.82	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	96.40%

Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	3.826	85	1006584	8.10	PPBV	99
4) FREON 152A	3.734	65	239293	7.94	PPBV	92
5) CHLORODIFLUOROMETHANE	3.765	67	100770	8.67	PPBV	98
6) PROPYLENE	3.783	41	310891	8.93	PPBV	98
7) FREON 114	3.990	85	1143440	8.19	PPBV	96
8) CHLOROMETHANE	3.929	52	106079	8.80	PPBV #	85
9) VINYL CHLORIDE	4.064	62	392400	8.43	PPBV	100
10) 1,3-BUTADIENE	4.149	54	303148	8.95	PPBV #	86
11) n-BUTANE	4.179	43	607395	9.12	PPBV #	93
12) BROMOMETHANE	4.320	94	366186	8.65	PPBV	99
13) CHLOROETHANE	4.423	64	222974	8.81	PPBV	98
14) FREON 123	4.722	83	1016280	8.71	PPBV #	75
15) FREON 123A	4.759	117	566190	8.53	PPBV	84
16) TRICHLOROFLUOROMETHANE	4.905	101	1039117	8.53	PPBV	99
17) ISOPROPYL ALCOHOL	5.076	45	586619	9.46	PPBV	86
18) ACETONE	4.923	58	136617	8.62	PPBV #	61
19) PENTANE	5.143	42	411817	8.91	PPBV	94
20) TVHC as EQUIV PENTANE	5.143	TIC	2145398m	9.86	PPBV	
21) IODOMETHANE	5.301	142	918694	9.07	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.350	96	387098	9.24	PPBV #	84
23) CARBON DISULFIDE	5.679	76	953452	8.30	PPBV	92
24) ETHANOL	4.631	45	105983	8.08	PPBV	99
25) BROMOETHENE	4.643	106	361681	9.01	PPBV	99
26) METHYLENE CHLORIDE	5.435	84	304908	8.65	PPBV	86
27) 3-CHLOROPROPENE	5.527	76	163056	9.67	PPBV #	16
28) FREON 113	5.643	151	645285	8.63	PPBV	94
29) TRANS-1,2-DICHLOROETHY...	6.210	96	339069	8.63	PPBV	93
30) TERTIARY BUTYL ALCOHOL	5.466	59	749431	9.65	PPBV	82
31) METHYL TERTIARY BUTYL ...	6.490	73	1129752	9.47	PPBV	95
32) TETRAHYDROFURAN	7.959	72	135912	8.28	PPBV #	88
33) HEXANE	7.356	57	589374	8.51	PPBV	89
34) VINYL ACETATE	6.569	86	74662	10.67	PPBV #	43
35) 1,1-DICHLOROETHANE	6.392	63	704339	8.94	PPBV	99
36) METHYL ETHYL KETONE	6.904	72	123588	8.48	PPBV #	48
37) cis-1,2-DICHLOROETHYLENE	7.148	96	355585	9.55	PPBV	90
38) ETHYL ACETATE	7.465	61	77718	7.99	PPBV #	63
39) CHLOROFORM	7.423	83	798234	9.47	PPBV	98
40) 2,4-DIMETHYLPENTANE	8.197	57	812730	8.55	PPBV	95
41) 1,1,1-TRICHLOROETHANE	8.362	97	885676	8.75	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29758.D
Acq On : 14 Feb 2011 7:33 am
Operator : YOUMINH
Sample : CC1240-10
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 17:45:23 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	8.941	117	876900	8.51	PPBV	99
43) 1,2-DICHLOROETHANE	8.118	62	428839	10.02	PPBV	98
45) BENZENE	8.800	78	1182462	9.18	PPBV	98
46) CYCLOHEXANE	9.057	56	681355	8.51	PPBV #	76
47) 2,3-DIMETHYLPENTANE	9.306	71	313272	8.29	PPBV	89
48) TRICHLOROETHYLENE	9.812	95	448459	8.37	PPBV	93
49) 1,2-DICHLOROPROPANE	9.581	63	436746	9.75	PPBV	100
50) BROMODICHLOROMETHANE	9.764	83	809937	9.77	PPBV	96
51) 2,2,4-TRIMETHYLPENTANE	9.867	57	2116187	8.43	PPBV	99
52) 1,4-DIOXANE	9.965	88	193157	10.32	PPBV #	76
53) METHYL METHACRYLATE	10.069	69	368078	9.17	PPBV #	26
54) HEPTANE	10.129	43	715345	9.56	PPBV	86
55) TVHC as EQUIV HEPTANE	10.129	TIC	3435773m	10.47	PPBV	
56) METHYL ISOBUTYL KETONE	10.751	58	280074	8.89	PPBV #	86
57) cis-1,3-DICHLOROPROPENE	10.648	75	551483	9.78	PPBV	96
58) TOLUENE	11.587	92	821437	10.19	PPBV	99
59) trans-1,3-DICHLOROPROPENE	11.160	75	401529	10.44	PPBV	96
60) 1,1,2-TRICHLOROETHANE	11.312	83	389409	10.35	PPBV	98
62) 2-HEXANONE	11.922	58	287834	8.75	PPBV #	84
63) TETRACHLOROETHYLENE	12.659	164	474898	9.22	PPBV	99
64) DIBROMOCHLOROMETHANE	11.971	129	745729	9.97	PPBV	100
65) 1,2-DIBROMOETHANE	12.202	107	510883	9.91	PPBV	100
66) OCTANE	12.568	43	985373	10.25	PPBV #	86
67) 1,1,1,2-TETRACHLOROETHANE	13.294	131	615340	9.23	PPBV #	1
68) CHLOROBENZENE	13.312	112	882887	9.60	PPBV	95
69) ETHYLBENZENE	13.690	91	1660168	9.89	PPBV	98
70) m,p-XYLENE	13.867	106	1263722	20.20	PPBV	95
71) o-XYLENE	14.312	106	620674	10.01	PPBV	96
72) STYRENE	14.214	104	720165	10.60	PPBV	98
73) NONANE	14.568	43	892472	10.94	PPBV	90
74) BROMOFORM	13.903	173	589128	9.78	PPBV	99
76) 1,1,2,2-TETRACHLOROETHANE	14.306	83	783958	9.61	PPBV	99
77) ISOPROPYLBENZENE	14.909	105	1826790	10.02	PPBV	98
78) 2-CHLOROTOLUENE	15.378	126	367218	9.94	PPBV #	1
79) n-PROPYLBENZENE	15.427	120	416333	10.02	PPBV #	34
80) 4-ETHYLTOLUENE	15.580	105	1372249	10.66	PPBV	98
81) 1,3,5-TRIMETHYLBENZENE	15.659	105	1268614	10.39	PPBV	98
82) TERT-BUTYLBENZENE	16.061	134	308561	10.59	PPBV	86
83) 1,2,4-TRIMETHYLBENZENE	16.067	105	1100169	10.70	PPBV	98
84) m-DICHLOROBENZENE	16.201	146	449360	9.82	PPBV	99
85) BENZYL CHLORIDE	16.189	91	540790	10.11	PPBV	97
86) p-DICHLOROBENZENE	16.269	146	436256	9.48	PPBV	99
87) SEC-BUTYLBENZENE	16.336	134	349443	10.07	PPBV	91
88) p-ISOPROPYLTOLUENE	16.500	134	296463	10.39	PPBV	90
89) o-DICHLOROBENZENE	16.610	146	429968	9.78	PPBV	99
90) n-BUTYLBENZENE	16.915	134	193666	9.02	PPBV	84
91) HEXACHLOROBUTADIENE	18.731	225	214462	10.05	PPBV	98
92) 1,2,4-TRICHLOROBENZENE	18.293	180	92166	7.53	PPBV	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29758.D
Acq On : 14 Feb 2011 7:33 am
Operator : YOUMINH
Sample : CC1240-10
Misc : MS8244,V2W1256,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 17:45:23 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration

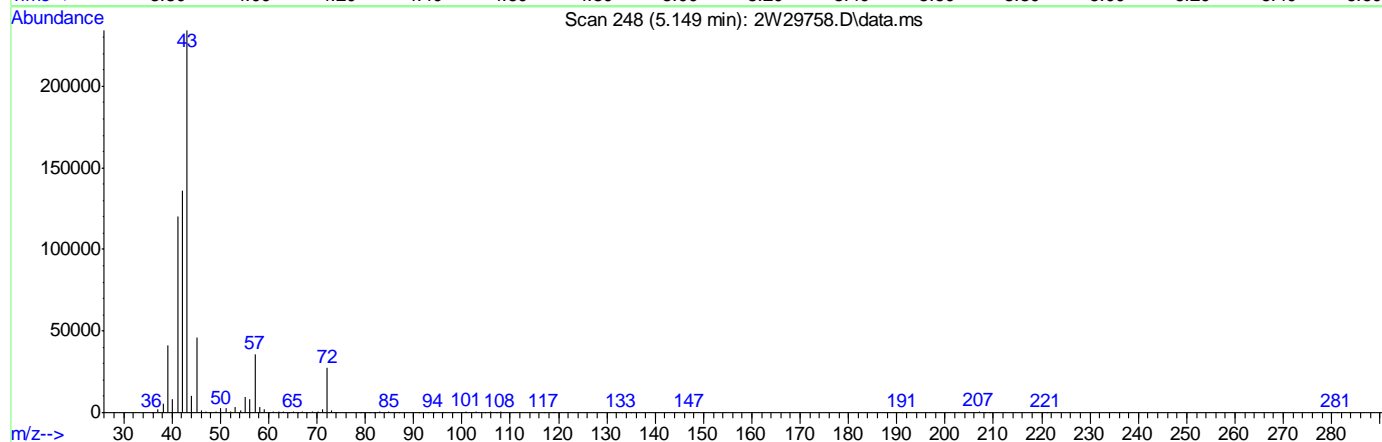
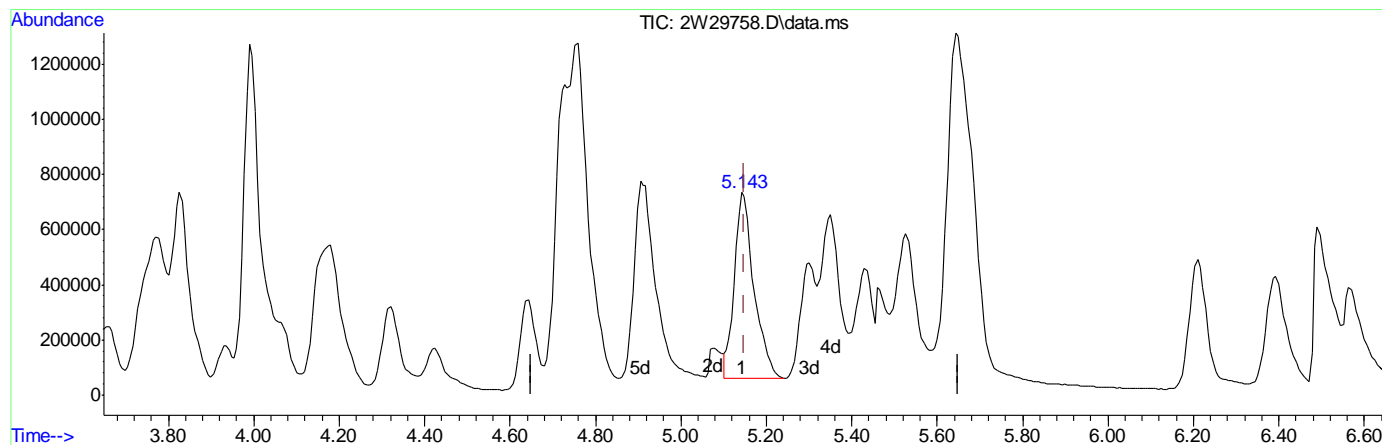
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29758.D
Acq On : 14 Feb 2011 7:33 am
Operator : YOU MINH
Sample : CC1240-10
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:38:30 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : TO15 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



(20) TVHC as EQUIV PENTANE (H)

5.143min (-0.006) 9.86PPBV m

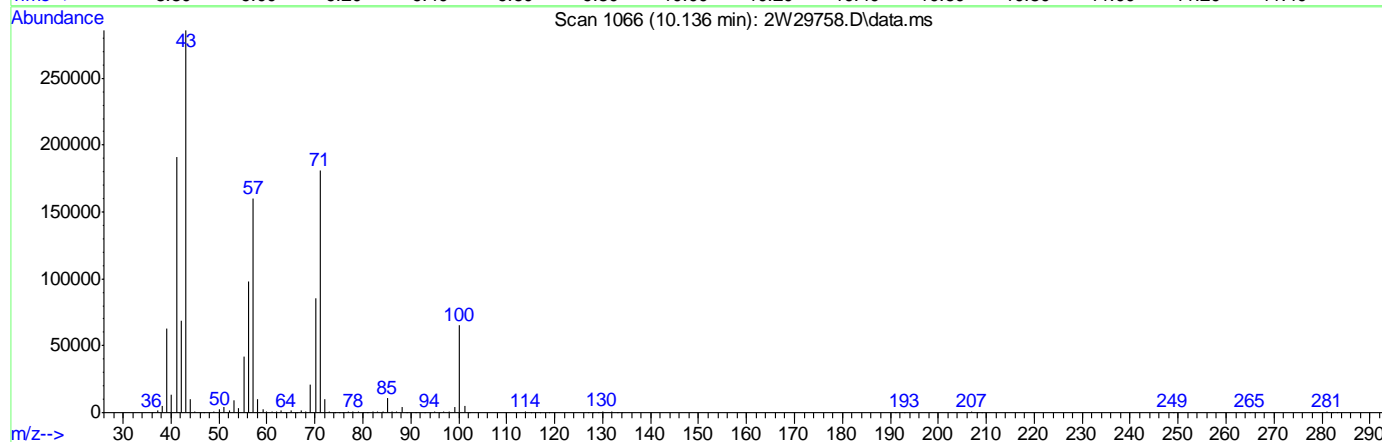
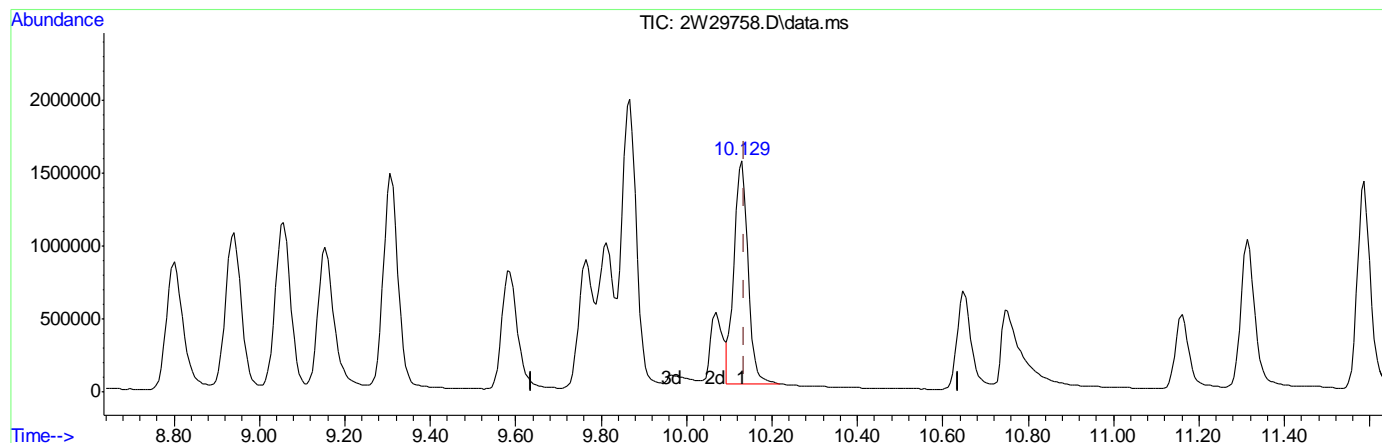
response 2145398

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2w\v2w1256\
Data File : 2W29758.D
Acq On : 14 Feb 2011 7:33 am
Operator : YOUMINH
Sample : CC1240-10
Misc : MS8244,V2W1256,400,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:38:30 2011
Quant Method : C:\msdchem\1\METHODS\M2W1240.M
Quant Title : T015 by GCMS w/Rtx-1 60m X 0.32mm ID X 1.0 um
QLast Update : Tue Jan 25 11:19:02 2011
Response via : Initial Calibration



(55) TVHC as EQUIV HEPTANE (H)

10.129min (-0.007) 10.47PPBV m

response 3435773

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20778.D
 Acq On : 15 Feb 2011 6:24 pm
 Sample : IC821-0.5
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:44:00 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:43:58 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	117652	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	573309	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	238373	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	238945	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 114318 3.94 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 78.80%

Target Compounds

Qvalue

3) FREON 152A	4.29	65	6364	0.81	PPBV	94
4) CHLORODIFLUOROMETHANE	4.32	67	2137	0.70	PPBV	81
5) DICHLORODIFLUOROMETHANE	4.37	85	21357	0.66	PPBV	99
6) PROPYLENE	4.34	41	8222	0.74	PPBV	99
7) FREON 114	4.54	85	24907	0.66	PPBV	99
8) CHLOROMETHANE	4.48	50	10380	0.77	PPBV	98
9) VINYL CHLORIDE	4.61	62	9117	0.67	PPBV	99
10) 1,3-BUTADIENE	4.70	54	6447	0.64	PPBV	95
11) n-BUTANE	4.72	43	14262	0.67	PPBV	98
12) BROMOMETHANE	4.88	94	8627	0.64	PPBV	96
13) CHLOROETHANE	4.98	64	4318	0.68	PPBV	98
14) FREON 123	5.27	83	19201	0.75	PPBV	97
15) FREON 123A	5.30	117	11034	0.74	PPBV	98
16) TRICHLOROFLUOROMETHANE	5.44	101	21698	0.67	PPBV	98
17) ISOPROPYL ALCOHOL	5.61	45	9873	0.53	PPBV #	12
18) ACETONE	5.41	58	2671	0.61	PPBV	99
19) PENTANE	5.64	42	10355	0.72	PPBV	94
21) IODOMETHANE	5.83	142	24455	0.64	PPBV	100
22) 1,1-DICHLOROETHYLENE	5.86	96	8484	0.66	PPBV	98
23) CARBON DISULFIDE	6.17	76	26037	0.68	PPBV	95
24) ETHANOL	5.13	45	3318	0.80	PPBV	93
25) BROMOETHENE	5.20	106	8897	0.64	PPBV	97
26) METHYLENE CHLORIDE	5.96	84	7443	0.79	PPBV	97
27) 3-CHLOROPROPENE	6.02	76	3335	0.73	PPBV #	68
28) FREON 113	6.11	151	15208	0.65	PPBV	99
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	7781	0.62	PPBV	97
30) TERTIARY BUTYL ALCOHOL	6.02	59	11692	0.54	PPBV #	1
31) METHYL TERTIARY BUTYL ETHER	6.82	73	18327	0.70	PPBV	97
32) TETRAHYDROFURAN	8.08	72	2414	0.52	PPBV	90
33) HEXANE	7.48	57	13502	0.68	PPBV #	81
34) VINYL ACETATE	6.89	86	1241	0.61	PPBV #	94
35) 1,1-DICHLOROETHANE	6.75	63	13877	0.75	PPBV	99
36) METHYL ETHYL KETONE	7.11	72	2299	0.51	PPBV	95
37) cis-1,2-DICHLOROETHYLENE	7.44	96	7759	0.71	PPBV	98
38) DIISOPROPYL ETHER	7.53	45	21307	0.67	PPBV	99
39) ETHYL ACETATE	7.62	61	1547	0.54	PPBV	98
40) CHLOROFORM	7.65	83	15419	0.73	PPBV	98
41) 2,4-DIMETHYLPENTANE	8.21	57	15546	0.70	PPBV	98
42) 1,1,1-TRICHLOROETHANE	8.47	97	15122	0.73	PPBV	100
43) CARBON TETRACHLORIDE	9.01	117	16998	0.66	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W20778.D M3W821.M

Wed Feb 16 16:13:32 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20778.D
 Acq On : 15 Feb 2011 6:24 pm
 Sample : IC821-0.5
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:44:00 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:43:58 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.26	62	8118	0.72	PPBV	98
46) BENZENE	8.88	78	22787	0.82	PPBV	99
47) CYCLOHEXANE	9.06	56	14634	0.74	PPBV	98
48) 2,3-DIMETHYLPENTANE	9.23	71	6599	0.87	PPBV #	52
49) TRICHLOROETHYLENE	9.82	95	9796	0.75	PPBV	99
50) 1,2-DICHLOROPROPANE	9.58	63	8212	0.80	PPBV	99
51) BROMODICHLOROMETHANE	9.79	83	15939	0.78	PPBV	97
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	38655	0.78	PPBV	98
53) 1,4-DIOXANE	10.01	88	2464	0.41	PPBV #	1
54) HEPTANE	10.00	43	15508	0.80	PPBV	97
56) METHYL METHACRYLATE	10.05	69	5286	0.62	PPBV #	54
57) METHYL ISOBUTYL KETONE	10.71	58	3995	0.59	PPBV	96
58) cis-1,3-DICHLOROPROPENE	10.65	75	10838	0.73	PPBV	90
59) TOLUENE	11.56	92	14559	0.79	PPBV	98
60) trans-1,3-DICHLOROPROPENE	11.15	75	7190	0.61	PPBV	94
61) 1,1,2-TRICHLOROETHANE	11.30	83	6539	0.71	PPBV	97
63) 2-HEXANONE	11.89	58	4438	0.59	PPBV	96
64) TETRACHLOROETHYLENE	12.69	164	10711	0.80	PPBV	99
65) DIBROMOCHLOROMETHANE	12.01	129	13540	0.76	PPBV	99
66) 1,2-DIBROMOETHANE	12.22	107	9366	0.68	PPBV	99
67) OCTANE	12.48	43	18543	0.86	PPBV	97
68) 1,1,1,2-TETRACHLOROETHANE	13.39	131	9832	0.80	PPBV	99
69) CHLOROBENZENE	13.42	112	15432	0.77	PPBV #	80
70) ETHYLBENZENE	13.79	91	24590	0.75	PPBV	100
71) m,p-XYLENE	13.97	106	17660	1.44	PPBV	96
72) o-XYLENE	14.48	106	8400	0.70	PPBV	97
73) STYRENE	14.38	104	8567	0.54	PPBV	99
74) NONANE	14.66	43	13141	0.71	PPBV	97
75) BROMOFORM	14.08	173	9496	0.62	PPBV	99
77) 1,1,2,2-TETRACHLOROETHANE	14.50	83	6821	0.47	PPBV	94
78) 1,2,3-TRICHLOROPROPANE	14.63	75	5579	0.49	PPBV	95
79) ISOPROPYLBENZENE	15.12	105	21325	0.63	PPBV	99
80) 2-CHLOROTOLUENE	15.68	126	4461	0.57	PPBV	93
81) n-PROPYLBENZENE	15.71	120	4355	0.52	PPBV	99
82) 4-ETHYLTOLUENE	15.88	105	14492	0.53	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	12187	0.53	PPBV	99
84) tert-BUTYLBENZENE	16.46	134	2879	0.52	PPBV	93
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	10177	0.50	PPBV	95
86) m-DICHLOROBENZENE	16.67	146	5982	0.47	PPBV	96
87) BENZYL CHLORIDE	16.67	91	5565	0.45	PPBV	97
88) p-DICHLOROBENZENE	16.76	146	5987	0.50	PPBV	99
89) sec-BUTYLBENZENE	16.80	134	3148	0.50	PPBV	96
90) p-ISOPROPYLTOLUENE	16.98	134	2925	0.49	PPBV	99
91) o-DICHLOROBENZENE	17.18	146	4644	0.43	PPBV	94
92) n-BUTYLBENZENE	17.50	134	1957	0.46	PPBV	93
93) HEXACHLOROBUTADIENE	19.77	225	1432	0.32	PPBV	92
94) 1,2,4-TRICHLOROBENZENE	19.22	180	835	0.29	PPBV	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20778.D M3W821.M Wed Feb 16 16:13:32 2011 MS3W

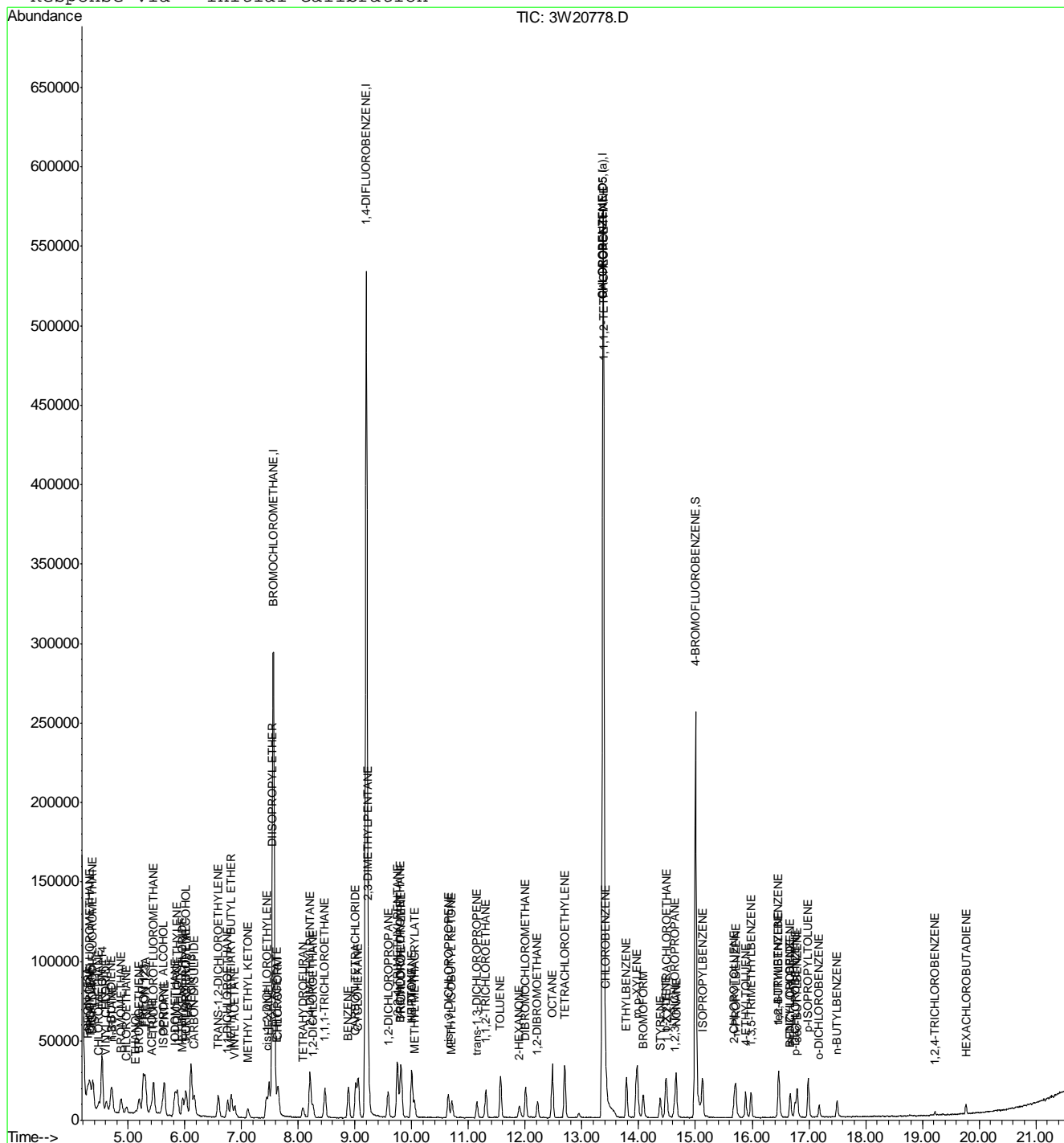
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20778.D
Acq On : 15 Feb 2011 6:24 pm
Sample : IC821-0.5
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 12:44 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Initial Calibration



6.7.17

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20779.D
 Acq On : 15 Feb 2011 9:02 pm
 Sample : IC821-20
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:44:31 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:44:19 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	124090	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.21	114	614086	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	287965	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	287965	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.01 95 169730 5.21 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 104.20%

Target Compounds

Qvalue

3) FREON 152A	4.28	65	153248	15.38	PPBV	99
4) CHLORODIFLUOROMETHANE	4.31	67	58242	15.97	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.37	85	601549	15.94	PPBV	100
6) PROPYLENE	4.33	41	205882	15.19	PPBV	99
7) FREON 114	4.53	85	711941	16.11	PPBV	100
8) CHLOROMETHANE	4.48	50	232763	13.83	PPBV	97
9) VINYL CHLORIDE	4.62	62	261384	16.37	PPBV	100
10) 1,3-BUTADIENE	4.69	54	200297	17.23	PPBV	99
11) n-BUTANE	4.71	43	400333	16.07	PPBV	100
12) BROMOMETHANE	4.87	94	264042	17.04	PPBV	99
13) CHLOROETHANE	4.97	64	139869	18.60	PPBV	99
14) FREON 123	5.27	83	606029	19.28	PPBV	100
15) FREON 123A	5.30	117	348244	19.13	PPBV	98
16) TRICHLOROFLUOROMETHANE	5.45	101	624718	16.48	PPBV	100
17) ISOPROPYL ALCOHOL	5.54	45	452044	22.56	PPBV	98
18) ACETONE	5.36	58	108834	22.03	PPBV	93
19) PENTANE	5.64	42	280703	16.17	PPBV	99
21) IODOMETHANE	5.83	142	791134	17.99	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.87	96	259092	17.30	PPBV	98
23) CARBON DISULFIDE	6.17	76	736973	16.28	PPBV	100
24) ETHANOL	5.09	45	97831	18.65	PPBV	98
25) BROMOETHENE	5.20	106	276242	17.31	PPBV	99
26) METHYLENE CHLORIDE	5.97	84	216301	18.24	PPBV	99
27) 3-CHLOROPROPENE	6.03	76	114599	20.60	PPBV	97
28) FREON 113	6.11	151	470402	17.39	PPBV	100
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	271916	19.07	PPBV	99
30) TERTIARY BUTYL ALCOHOL	5.93	59	567613	24.27	PPBV	99
31) METHYL TERTIARY BUTYL ETHER	6.77	73	666831	21.36	PPBV	99
32) TETRAHYDROFURAN	7.99	72	120459	24.35	PPBV	99
33) HEXANE	7.49	57	398750	16.99	PPBV	99
34) VINYL ACETATE	6.87	86	55604	24.10	PPBV	99
35) 1,1-DICHLOROETHANE	6.76	63	456073	20.02	PPBV	99
36) METHYL ETHYL KETONE	7.06	72	120580	25.08	PPBV	94
37) cis-1,2-DICHLOROETHYLENE	7.45	96	267800	20.35	PPBV	100
38) DIISOPROPYL ETHER	7.51	45	802925	21.50	PPBV	99
39) ETHYL ACETATE	7.58	61	80819	26.15	PPBV #	94
40) CHLOROFORM	7.66	83	503352	19.55	PPBV	99
41) 2,4-DIMETHYLPENTANE	8.21	57	485471	18.21	PPBV	99
42) 1,1,1-TRICHLOROETHANE	8.47	97	502563	19.92	PPBV	100
43) CARBON TETRACHLORIDE	9.02	117	553832	18.37	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W20779.D M3W821.M Wed Feb 16 16:13:33 2011 MS3W

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20779.D
 Acq On : 15 Feb 2011 9:02 pm
 Sample : IC821-20
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:44:31 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:44:19 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.27	62	290132	21.23	PPBV	99
46) BENZENE	8.89	78	751376	20.82	PPBV	100
47) CYCLOHEXANE	9.06	56	417333	16.95	PPBV	99
48) 2,3-DIMETHYLPENTANE	9.24	71	180529	17.82	PPBV	94
49) TRICHLOROETHYLENE	9.82	95	325346	19.90	PPBV	99
50) 1,2-DICHLOROPROPANE	9.59	63	288376	21.85	PPBV	100
51) BROMODICHLOROMETHANE	9.81	83	527567	20.33	PPBV	100
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	1214040	19.30	PPBV	100
53) 1,4-DIOXANE	9.89	88	170862	28.45	PPBV	99
54) HEPTANE	10.01	43	459781	18.42	PPBV	98
56) METHYL METHACRYLATE	10.03	69	256795	26.00	PPBV #	96
57) METHYL ISOBUTYL KETONE	10.65	58	224110	29.22	PPBV	99
58) cis-1,3-DICHLOROPROPENE	10.65	75	419037	22.77	PPBV	100
59) TOLUENE	11.57	92	509025	21.66	PPBV	98
60) trans-1,3-DICHLOROPROPENE	11.16	75	344548	25.52	PPBV	100
61) 1,1,2-TRICHLOROETHANE	11.32	83	254005	22.59	PPBV	99
63) 2-HEXANONE	11.84	58	280544	29.27	PPBV	96
64) TETRACHLOROETHYLENE	12.70	164	368163	18.96	PPBV	100
65) DIBROMOCHLOROMETHANE	12.01	129	533722	21.21	PPBV	98
66) 1,2-DIBROMOETHANE	12.22	107	428736	22.98	PPBV	100
67) OCTANE	12.48	43	592981	18.40	PPBV	99
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	373067	20.93	PPBV	100
69) CHLOROBENZENE	13.43	112	601449	21.05	PPBV	99
70) ETHYLBENZENE	13.79	91	972280	21.12	PPBV	100
71) m,p-XYLENE	13.98	106	747635	43.96	PPBV	97
72) o-XYLENE	14.48	106	354787	21.64	PPBV	99
73) STYRENE	14.39	104	519311	26.43	PPBV	100
74) NONANE	14.67	43	528865	20.73	PPBV	99
75) BROMOFORM	14.10	173	476109	23.86	PPBV	99
77) 1,1,2,2-TETRACHLOROETHANE	14.51	83	451741	26.11	PPBV	99
78) 1,2,3-TRICHLOROPROPANE	14.64	75	356847	26.26	PPBV	100
79) ISOPROPYLBENZENE	15.13	105	1004496	22.60	PPBV	99
80) 2-CHLOROTOLUENE	15.70	126	235340	23.75	PPBV	99
81) n-PROPYLBENZENE	15.72	120	254141	24.94	PPBV	99
82) 4-ETHYLTOLUENE	15.90	105	849783	25.07	PPBV	99
83) 1,3,5-TRIMETHYLBENZENE	15.99	105	691944	24.44	PPBV	99
84) tert-BUTYLBENZENE	16.47	134	172292	25.38	PPBV	99
85) 1,2,4-TRIMETHYLBENZENE	16.49	105	628375	25.47	PPBV	99
86) m-DICHLOROBENZENE	16.68	146	403803	26.80	PPBV	100
87) BENZYL CHLORIDE	16.69	91	446103	30.94	PPBV	99
88) p-DICHLOROBENZENE	16.77	146	381608	26.25	PPBV	100
89) sec-BUTYLBENZENE	16.80	134	192859	25.49	PPBV	99
90) p-ISOPROPYLTOLUENE	17.00	134	198246	27.74	PPBV	95
91) o-DICHLOROBENZENE	17.19	146	344171	27.89	PPBV	100
92) n-BUTYLBENZENE	17.51	134	152993	30.74	PPBV	97
93) HEXACHLOROBUTADIENE	19.77	225	134400	28.26	PPBV	99
94) 1,2,4-TRICHLOROBENZENE	19.22	180	68377	22.60	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20779.D M3W821.M Wed Feb 16 16:13:34 2011 MS3W

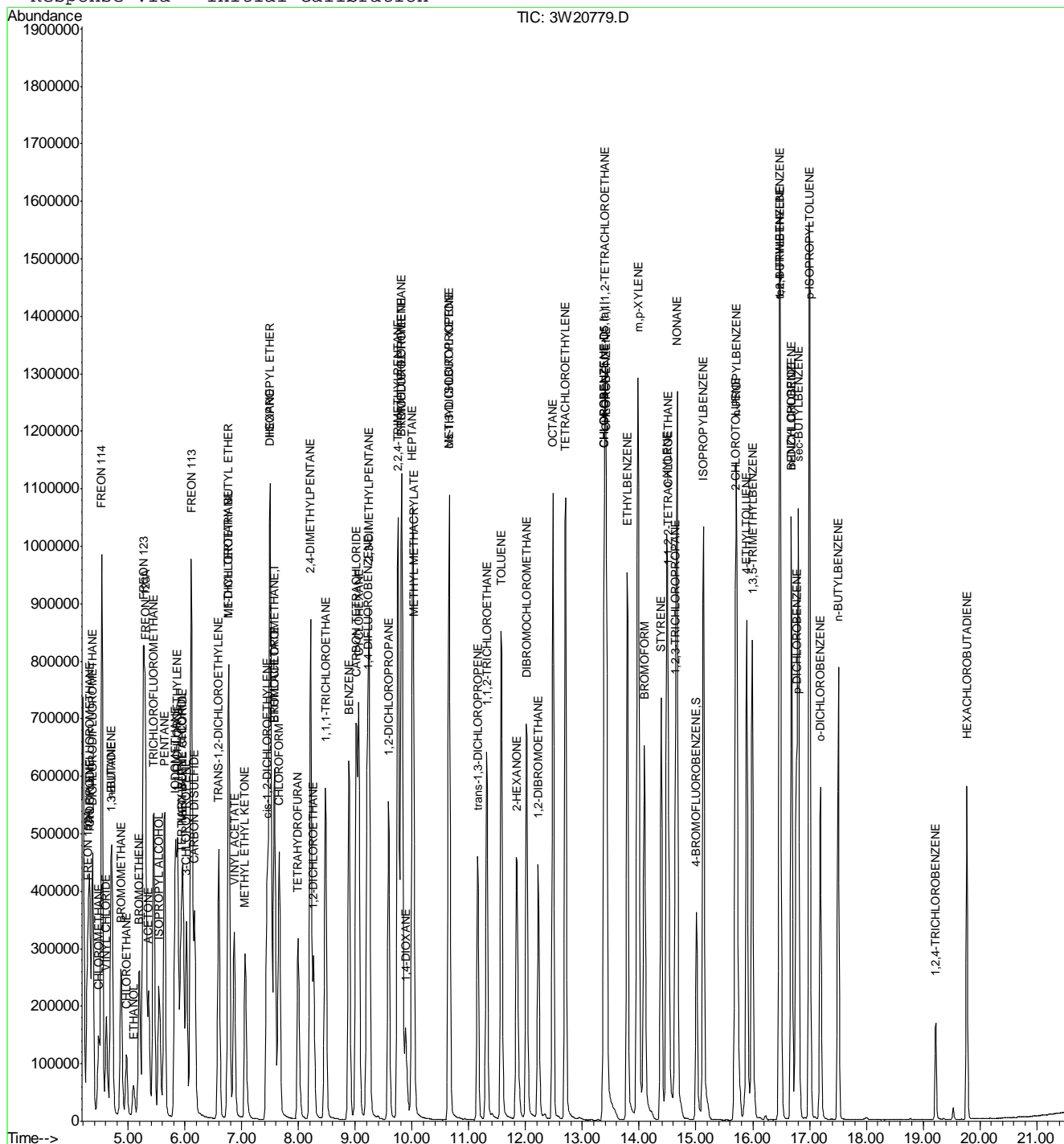
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20779.D
Acq On : 15 Feb 2011 9:02 pm
Sample : IC821-20
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 12:44 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20780.D
 Acq On : 15 Feb 2011 10:21 pm
 Sample : IC821-0.1
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:50:34 2011

Vial: 4
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:49:53 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	118381	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	581743	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	207934	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	207934	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	96276	4.18	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	83.60%

Target Compounds

Qvalue

3) FREON 152A	4.28	65	1803	0.19	PPBV	98
4) CHLORODIFLUOROMETHANE	4.33	67	356	0.10	PPBV #	39
5) DICHLORODIFLUOROMETHANE	4.38	85	3385	0.10	PPBV	97
6) PROPYLENE	4.33	41	3000	0.23	PPBV #	77
7) FREON 114	4.53	85	3857	0.10	PPBV	98
8) CHLOROMETHANE	4.48	50	1532	0.10	PPBV	78
9) VINYL CHLORIDE	4.62	62	1389	0.10	PPBV #	91
10) 1,3-BUTADIENE	4.70	54	1192	0.11	PPBV #	78
11) n-BUTANE	4.71	43	2653	0.12	PPBV #	76
12) BROMOMETHANE	4.88	94	1266	0.09	PPBV	83
13) CHLOROETHANE	4.97	64	706	0.10	PPBV #	58
14) FREON 123	5.26	83	3125	0.11	PPBV	96
15) FREON 123A	5.30	117	1900	0.12	PPBV	97
16) TRICHLOROFLUOROMETHANE	5.44	101	3309	0.10	PPBV	96
18) ACETONE	5.43	58	384	0.08	PPBV #	72
19) PENTANE	5.63	42	1975	0.13	PPBV	81
21) IODOMETHANE	5.82	142	3499	0.09	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.87	96	1299	0.10	PPBV	99
23) CARBON DISULFIDE	6.16	76	3824	0.09	PPBV	92
24) ETHANOL	5.18	45	1325	0.26	PPBV	80
25) BROMOETHENE	5.19	106	1199	0.08	PPBV	92
26) METHYLENE CHLORIDE	5.96	84	1655	0.15	PPBV	90
27) 3-CHLOROPROPENE	6.03	76	476	0.09	PPBV #	51
28) FREON 113	6.11	151	2279	0.10	PPBV	99
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	1289	0.10	PPBV	96
30) TERTIARY BUTYL ALCOHOL	6.10	59	1323	0.06	PPBV #	82
32) TETRAHYDROFURAN	8.16	72	272	0.06	PPBV	94
33) HEXANE	7.49	57	2179	0.11	PPBV #	81
35) 1,1-DICHLOROETHANE	6.75	63	2204	0.11	PPBV	96
36) METHYL ETHYL KETONE	7.16	72	293	0.06	PPBV #	47
37) cis-1,2-DICHLOROETHYLENE	7.44	96	1299	0.11	PPBV	93
38) DIISOPROPYL ETHER	7.57	45	2888	0.08	PPBV	100
39) ETHYL ACETATE	7.65	61	122	0.04	PPBV #	41
40) CHLOROFORM	7.65	83	2421	0.10	PPBV	90
41) 2,4-DIMETHYLPENTANE	8.21	57	2356	0.10	PPBV	92
42) 1,1,1-TRICHLOROETHANE	8.47	97	2304	0.10	PPBV	99
43) CARBON TETRACHLORIDE	9.00	117	2367	0.09	PPBV	95
44) 1,2-DICHLOROETHANE	8.26	62	1201	0.09	PPBV	96
46) BENZENE	8.88	78	3590	0.11	PPBV	99
47) CYCLOHEXANE	9.06	56	2184	0.10	PPBV	94

(#) = qualifier out of range (m) = manual integration

3W20780.D M3W821.M

Wed Feb 16 16:13:35 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20780.D
 Acq On : 15 Feb 2011 10:21 pm
 Sample : IC821-0.1
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:50:34 2011

Vial: 4
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:49:53 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 2,3-DIMETHYLPENTANE	9.23	71	860	0.10	PPBV #	1
49) TRICHLOROETHYLENE	9.82	95	1509	0.09	PPBV	99
50) 1,2-DICHLOROPROPANE	9.59	63	1514	0.12	PPBV	87
51) BROMODICHLOROMETHANE	9.80	83	2314	0.10	PPBV	93
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	6281	0.11	PPBV	96
54) HEPTANE	10.00	43	2644	0.12	PPBV	94
56) METHYL METHACRYLATE	10.06	69	601	0.06	PPBV #	41
57) METHYL ISOBUTYL KETONE	10.76	58	323	0.04	PPBV #	8
58) cis-1,3-DICHLOROPROPENE	10.65	75	1395	0.08	PPBV	96
59) TOLUENE	11.56	92	2119	0.10	PPBV	95
60) trans-1,3-DICHLOROPROPENE	11.15	75	881	0.07	PPBV #	80
61) 1,1,2-TRICHLOROETHANE	11.30	83	857	0.08	PPBV	95
63) 2-HEXANONE	11.95	58	241	0.03	PPBV #	41
64) TETRACHLOROETHYLENE	12.70	164	1657	0.12	PPBV	99
65) DIBROMOCHLOROMETHANE	12.01	129	1867	0.11	PPBV	94
66) 1,2-DIBROMOETHANE	12.22	107	1186	0.09	PPBV #	98
67) OCTANE	12.48	43	2889	0.13	PPBV	96
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	1281	0.10	PPBV	98
69) CHLOROBENZENE	13.41	112	1982	0.10	PPBV	93
70) ETHYLBENZENE	13.79	91	2920	0.09	PPBV	98
71) m,p-XYLENE	13.97	106	2162	0.18	PPBV #	88
72) o-XYLENE	14.48	106	952	0.08	PPBV #	80
73) STYRENE	14.38	104	996	0.07	PPBV	96
74) NONANE	14.67	43	1867	0.10	PPBV #	91
75) BROMOFORM	14.08	173	1230	0.07	PPBV	98
77) 1,1,2,2-TETRACHLOROETHANE	14.50	83	971	0.08	PPBV #	84
78) 1,2,3-TRICHLOROPROPANE	14.63	75	707	0.07	PPBV	84
79) ISOPROPYLBENZENE	15.13	105	2742	0.09	PPBV	95
80) 2-CHLOROTOLUENE	15.69	126	674	0.09	PPBV	99
81) n-PROPYLBENZENE	15.71	120	585	0.08	PPBV	93
82) 4-ETHYLTOLUENE	15.89	105	1847	0.07	PPBV	94
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	1784	0.09	PPBV	93
84) tert-BUTYLBENZENE	16.47	134	405	0.08	PPBV	97
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	1383	0.08	PPBV	93
86) m-DICHLOROBENZENE	16.67	146	871	0.08	PPBV	87
87) BENZYL CHLORIDE	16.68	91	673	0.06	PPBV #	87
88) p-DICHLOROBENZENE	16.76	146	951	0.09	PPBV	97
89) sec-BUTYLBENZENE	16.80	134	351	0.06	PPBV #	65
90) p-ISOPROPYLTOLUENE	16.98	134	414	0.08	PPBV #	83
91) o-DICHLOROBENZENE	17.18	146	682	0.07	PPBV	88
92) n-BUTYLBENZENE	17.51	134	197	0.05	PPBV #	44
93) HEXACHLOROBUTADIENE	19.78	225	169	0.05	PPBV #	31

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20780.D M3W821.M Wed Feb 16 16:13:35 2011 MS3W

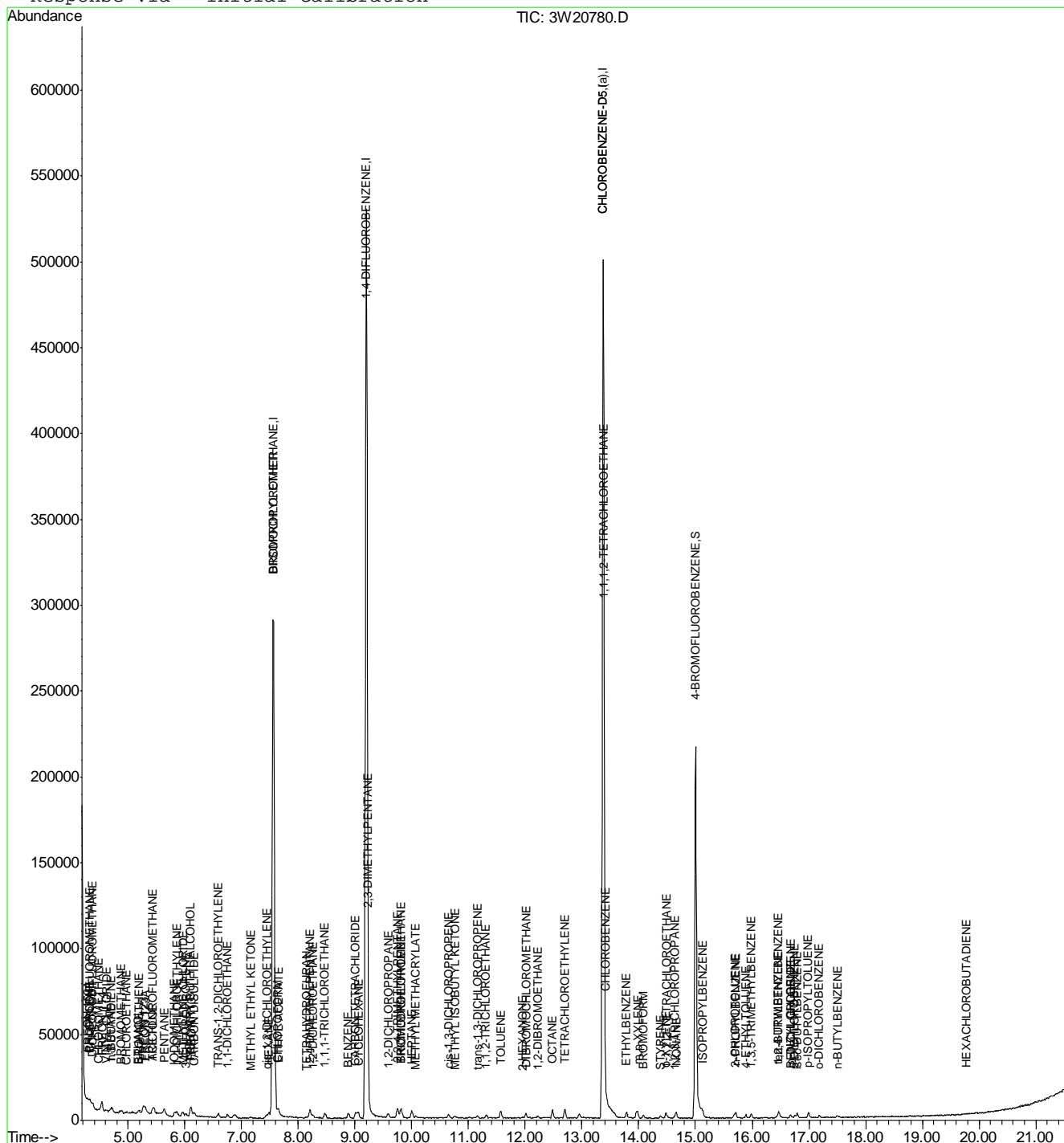
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20780.D
Acq On : 15 Feb 2011 10:21 pm
Sample : IC821-0.1
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:23 2011

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Initial Calibration



3W20780.D M3W821.M

Wed Feb 16 16:13:36 2011

MS 3W

Page 3

6.7.19

9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20781.D Vial: 4
 Acq On : 15 Feb 2011 11:00 pm Operator: yunxiac
 Sample : IC821-0.04 Inst : MS3W
 Misc : MS7827,V3W821,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:50:39 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:49:53 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	115052	10.00	PPBV	-0.01
45) 1,4-DIFLUOROBENZENE	9.20	114	558199	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	196174	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	196174	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 91878 4.23 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 84.60%

Target Compounds

Qvalue

3) FREON 152A	4.29	65	1174	0.13	PPBV	90
4) CHLORODIFLUOROMETHANE	4.35	67	146	0.04	PPBV #	1
5) DICHLORODIFLUOROMETHANE	4.37	85	1682	0.05	PPBV	96
6) PROPYLENE	4.32	41	2064	0.16	PPBV #	76
7) FREON 114	4.54	85	1870	0.05	PPBV	93
8) CHLOROMETHANE	4.48	50	815	0.06	PPBV	71
9) VINYL CHLORIDE	4.61	62	550	0.04	PPBV #	49
10) 1,3-BUTADIENE	4.70	54	575	0.06	PPBV #	52
11) n-BUTANE	4.72	43	1497	0.07	PPBV	89
12) BROMOMETHANE	4.88	94	709	0.05	PPBV	90
13) CHLOROETHANE	4.98	64	289	0.04	PPBV #	46
14) FREON 123	5.27	83	1364	0.05	PPBV	96
15) FREON 123A	5.30	117	741	0.05	PPBV #	74
16) TRICHLOROFLUOROMETHANE	5.44	101	1525	0.05	PPBV	98
18) ACETONE	5.44	58	228	0.05	PPBV	91
19) PENTANE	5.63	42	1164	0.08	PPBV #	79
21) IODOMETHANE	5.82	142	1565	0.04	PPBV	92
22) 1,1-DICHLOROETHYLENE	5.85	96	723	0.06	PPBV #	75
23) CARBON DISULFIDE	6.17	76	1962	0.05	PPBV #	83
24) ETHANOL	5.15	45	432	0.09	PPBV #	31
25) BROMOETHENE	5.20	106	591	0.04	PPBV #	89
26) METHYLENE CHLORIDE	5.96	84	1121	0.10	PPBV	93
27) 3-CHLOROPROPENE	6.02	76	171	0.03	PPBV #	79
28) FREON 113	6.10	151	933	0.04	PPBV	93
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	655	0.05	PPBV #	79
30) TERTIARY BUTYL ALCOHOL	6.09	59	450	0.02	PPBV #	25
31) METHYL TERTIARY BUTYL ETHER	6.86	73	1462	0.05	PPBV	88
33) HEXANE	7.48	57	913	0.05	PPBV	89
35) 1,1-DICHLOROETHANE	6.76	63	971	0.05	PPBV #	84
37) cis-1,2-DICHLOROETHYLENE	7.43	96	525	0.04	PPBV	91
38) DIISOPROPYL ETHER	7.57	45	1365	0.04	PPBV #	70
39) ETHYL ACETATE	7.45	61	621	0.21	PPBV #	1
40) CHLOROFORM	7.64	83	1130	0.05	PPBV	90
41) 2,4-DIMETHYLPENTANE	8.20	57	1084	0.05	PPBV #	65
42) 1,1,1-TRICHLOROETHANE	8.47	97	1115	0.05	PPBV	89
43) CARBON TETRACHLORIDE	9.01	117	1092	0.04	PPBV	88
46) BENZENE	8.88	78	1598	0.05	PPBV	93
47) CYCLOHEXANE	9.05	56	1025	0.05	PPBV	85
48) 2,3-DIMETHYLPENTANE	9.19	71	1047	0.12	PPBV #	1
49) TRICHLOROETHYLENE	9.82	95	758	0.05	PPBV	84

(#) = qualifier out of range (m) = manual integration

3W20781.D M3W821.M Wed Feb 16 16:15:49 2011 MS3W

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20781.D
 Acq On : 15 Feb 2011 11:00 pm
 Sample : IC821-0.04
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:50:39 2011

Vial: 4
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:49:53 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) 1,2-DICHLOROPROPANE	9.57	63	883	0.07	PPBV #	60
51) BROMODICHLOROMETHANE	9.80	83	1026	0.05	PPBV	100
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	2729	0.05	PPBV #	92
54) HEPTANE	9.99	43	1194	0.05	PPBV	93
56) METHYL METHACRYLATE	10.06	69	220	0.02	PPBV #	13
58) cis-1,3-DICHLOROPROPENE	10.65	75	570	0.03	PPBV #	45
59) TOLUENE	11.57	92	965	0.05	PPBV	98
60) trans-1,3-DICHLOROPROPENE	11.15	75	379	0.03	PPBV #	33
61) 1,1,2-TRICHLOROETHANE	11.31	83	387	0.04	PPBV	84
64) TETRACHLOROETHYLENE	12.70	164	708	0.05	PPBV	98
65) DIBROMOCHLOROMETHANE	12.01	129	738	0.04	PPBV	93
66) 1,2-DIBROMOETHANE	12.22	107	564	0.04	PPBV #	99
67) OCTANE	12.48	43	1529	0.07	PPBV	82
68) 1,1,1,2-TETRACHLOROETHANE	13.39	131	456	0.04	PPBV	88
69) CHLOROBENZENE	13.42	112	1012	0.05	PPBV #	40
70) ETHYLBENZENE	13.78	91	1485	0.05	PPBV	92
71) m,p-XYLENE	13.97	106	1070	0.09	PPBV #	82
72) o-XYLENE	14.48	106	497	0.05	PPBV #	84
73) STYRENE	14.39	104	400	0.03	PPBV	90
74) NONANE	14.65	43	1035	0.06	PPBV #	80
75) BROMOFORM	14.08	173	587	0.04	PPBV #	84
77) 1,1,2,2-TETRACHLOROETHANE	14.50	83	422	0.04	PPBV #	90
78) 1,2,3-TRICHLOROPROPANE	14.64	75	279	0.03	PPBV #	39
79) ISOPROPYLBENZENE	15.12	105	1269	0.04	PPBV	97
80) 2-CHLOROTOLUENE	15.70	126	287	0.04	PPBV #	42
81) n-PROPYLBENZENE	15.71	120	299	0.04	PPBV #	62
82) 4-ETHYLTOLUENE	15.88	105	885	0.04	PPBV #	97
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	768	0.04	PPBV #	82
84) tert-BUTYLBENZENE	16.47	134	235	0.05	PPBV #	68
85) 1,2,4-TRIMETHYLBENZENE	16.48	105	560	0.03	PPBV #	81
86) m-DICHLOROBENZENE	16.67	146	363m	0.03	PPBV	
87) BENZYL CHLORIDE	16.67	91	292	0.03	PPBV #	59
88) p-DICHLOROBENZENE	16.75	146	434	0.04	PPBV	84
89) sec-BUTYLBENZENE	16.79	134	162	0.03	PPBV #	75
90) p-ISOPROPYLTOLUENE	16.98	134	115	0.02	PPBV #	51
91) o-DICHLOROBENZENE	17.19	146	281	0.03	PPBV #	42

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20781.D M3W821.M Wed Feb 16 16:15:49 2011 MS3W

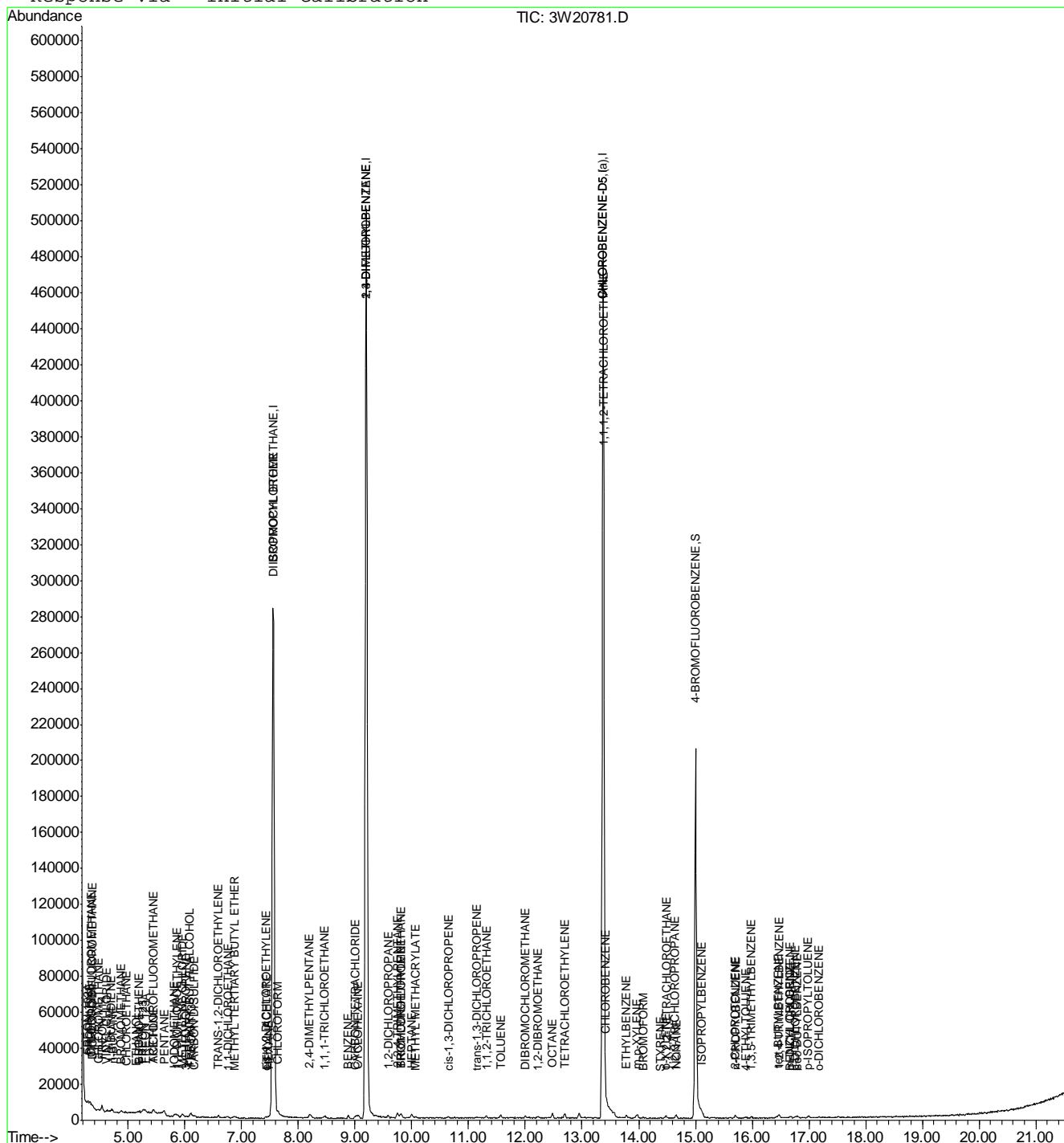
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20781.D
Acq On : 15 Feb 2011 11:00 pm
Sample : IC821-0.04
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 16:15 2011

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Initial Calibration



3W20781.D M3W821.M

Wed Feb 16 16:15:50 2011

MS 3W

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Manual Integration Approval Summary

Sample Number: V3W821-IC821

Method: TO-15

Lab FileID: 3W20781.D

Analyst approved: 02/16/11 16:16 Yunxia Chen

Injection Time: 02/15/11 23:00

Supervisor approved: 02/23/11 14:33 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
m-Dichlorobenzene	541-73-1		16.67	Missed peak

6.7.20.1
6

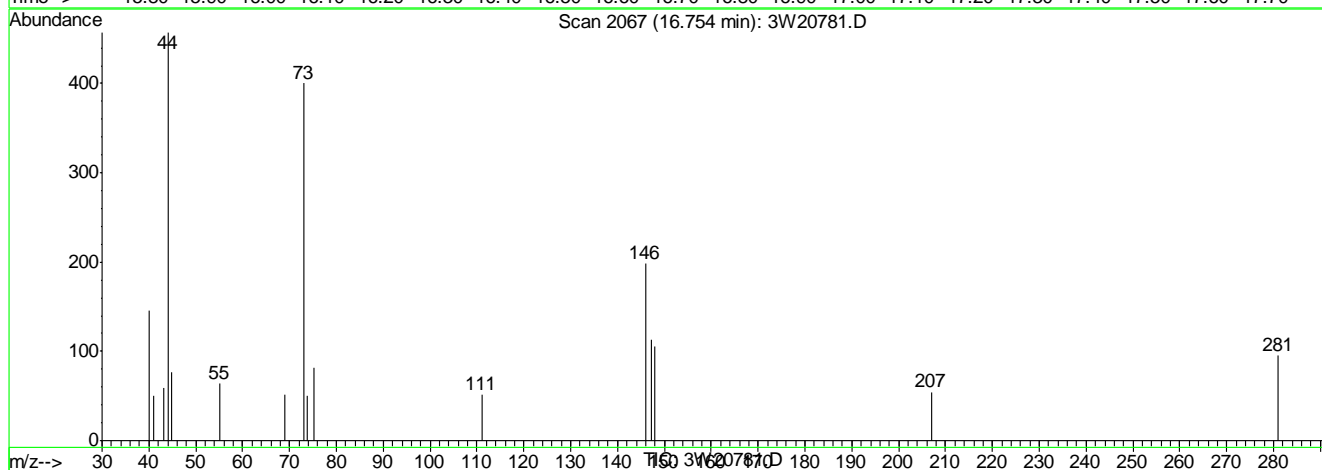
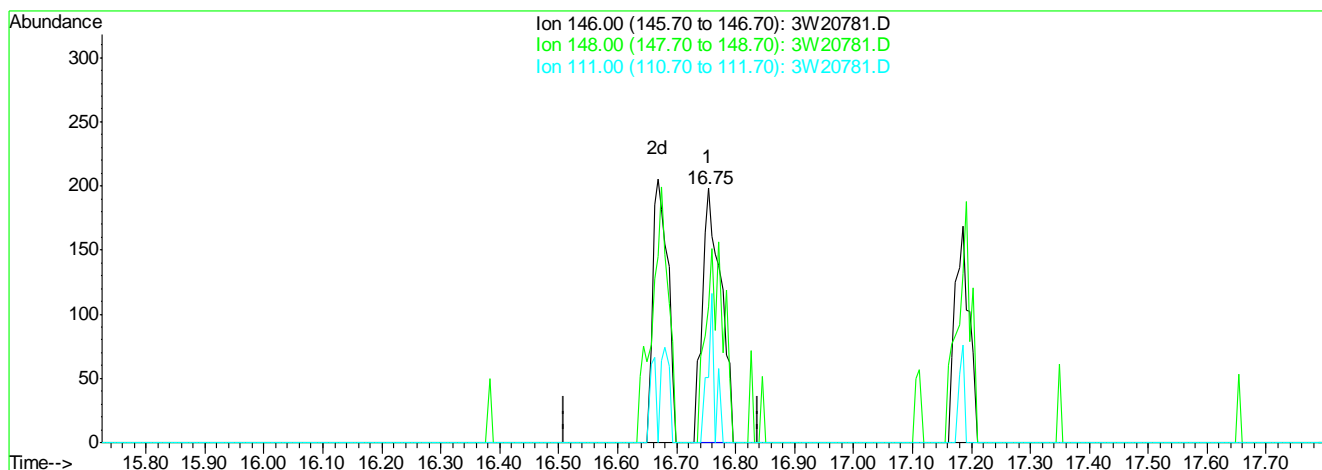
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W20781.D
Acq On : 15 Feb 2011 11:00 pm
Sample : IC821-0.04
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:24 2011

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Multiple Level Calibration



(86) m-DICHLOROBENZENE

16.75min 0.04PPBV

response 434

Ion	Exp%	Act%
146.00	100	100
148.00	65.10	74.88
111.00	35.70	23.27
0.00	0.00	0.00

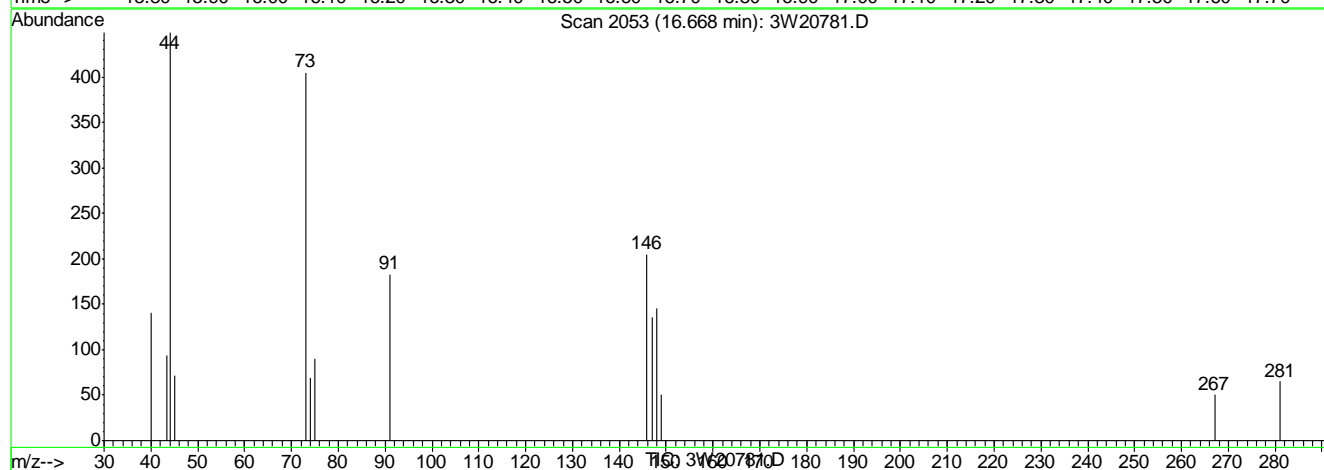
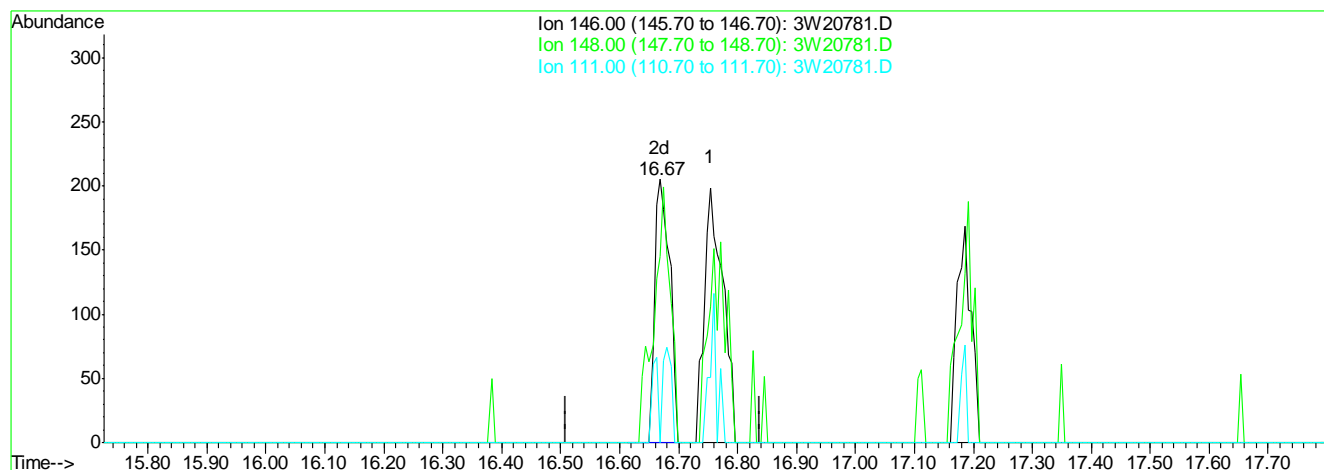
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W20781.D
Acq On : 15 Feb 2011 11:00 pm
Sample : IC821-0.04
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 16:15 2011

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Multiple Level Calibration



(86) m-DICHLOROBENZENE

16.67min 0.03PPBV m

response 363

Ion	Exp%	Act%
146.00	100	100
148.00	65.10	89.53#
111.00	35.70	27.82
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20782.D Vial: 6
Acq On : 16 Feb 2011 12:20 am Operator: yunxiac
Sample : NAP-10 Inst : MS3W
Misc : MS7827,V3W821,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 16 15:18:03 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 14:50:05 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	134143	10.00	PPBV	-0.01
45) 1,4-DIFLUOROBENZENE	9.20	114	644844	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	285175	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	285894	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	173088	5.71	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	114.20%

Target Compounds

96) NAPHTHALENE	19.36	128	166211	8.55	PPBV	Qvalue 96
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W20782.D M3W821.M Wed Feb 16 16:18:45 2011 MS3W

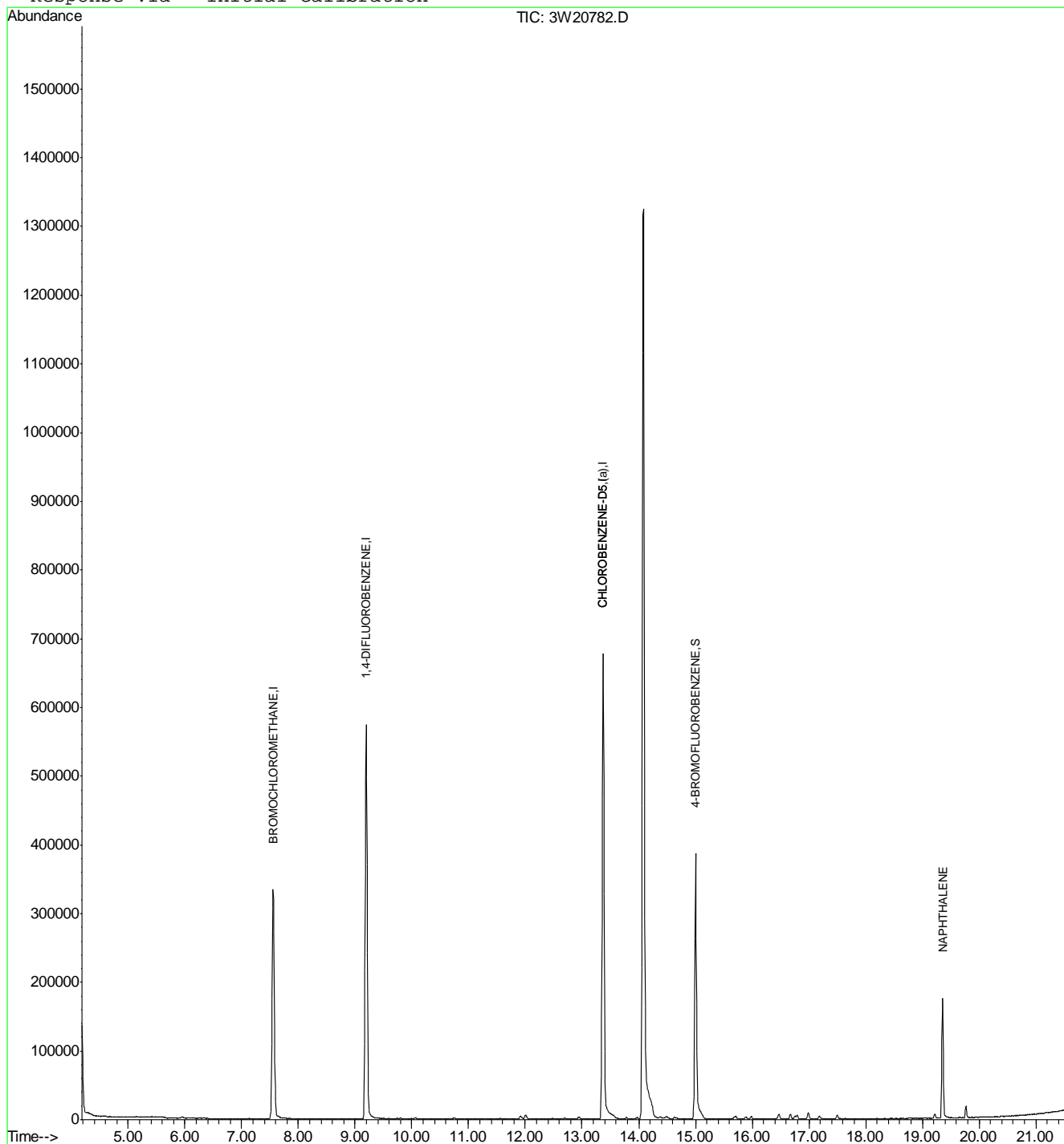
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20782.D
Acq On : 16 Feb 2011 12:20 am
Sample : NAP-10
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:19 2011

Vial: 6
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20783.D Vial: 6
Acq On : 16 Feb 2011 1:00 am Operator: yunxiac
Sample : NAP-5 Inst : MS3W
Misc : MS7827,V3W821,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 16 13:41:48 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 13:03:42 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	124505	10.00	PPBV	-0.01
45) 1,4-DIFLUOROBENZENE	9.20	114	618294	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	274209	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	274891	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	164829	5.65	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	113.00%

Target Compounds

96) NAPHTHALENE	19.36	128	129597	8.11	PPBV	Qvalue 96
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W20783.D M3W821.M Wed Feb 16 16:18:46 2011 MS3W

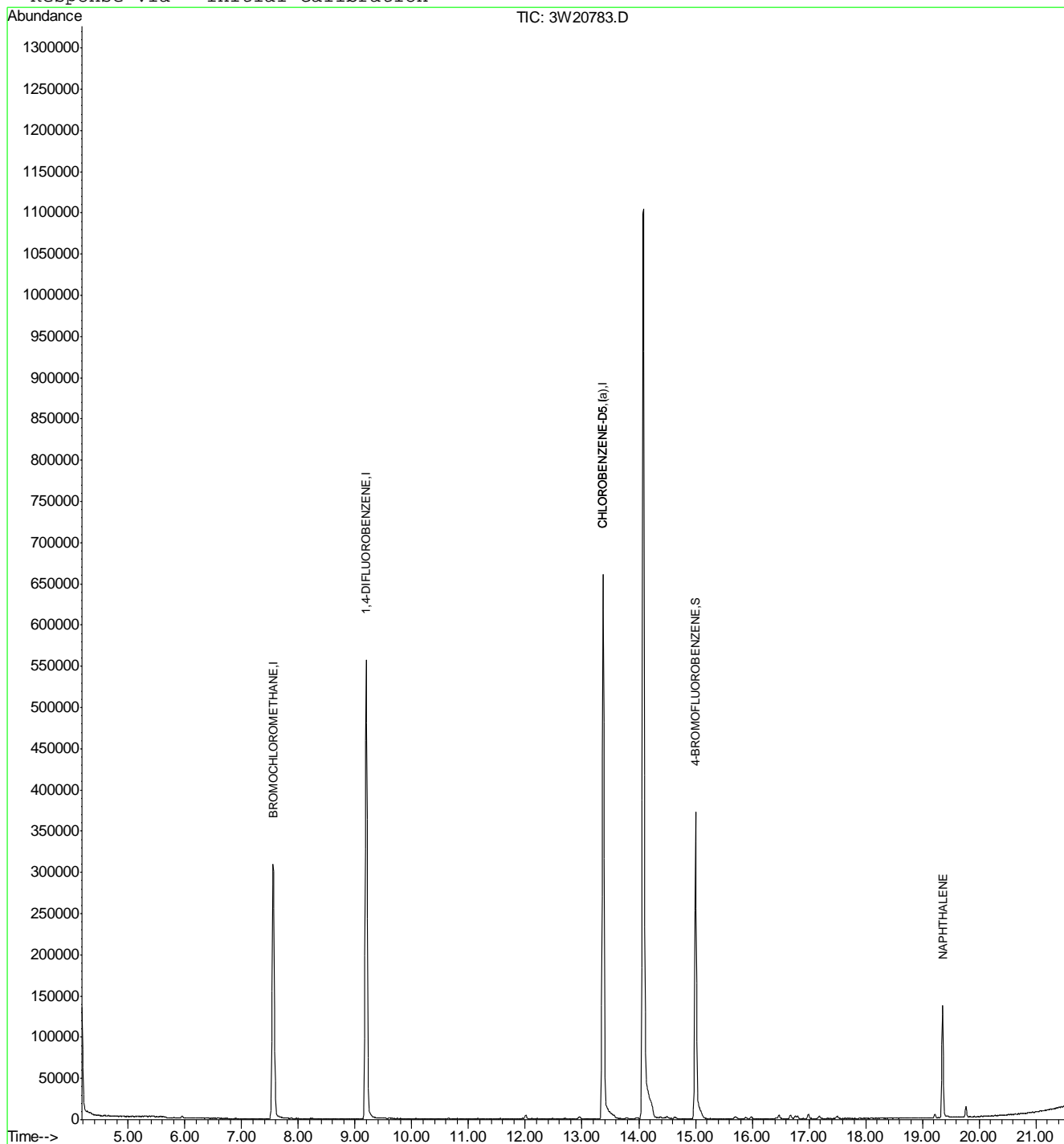
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20783.D
Acq On : 16 Feb 2011 1:00 am
Sample : NAP-5
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:19 2011

Vial: 6
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20784.D Vial: 2
 Acq On : 16 Feb 2011 1:44 am Operator: yunxiac
 Sample : IC821-40 Inst : MS3W
 Misc : MS7827,V3W821,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 16 14:24:19 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 14:24:16 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.59	128	125021	10.00	PPBV	0.02
45) 1,4-DIFLUOROBENZENE	9.23	114	633715	10.00	PPBV	0.02
62) CHLOROBENZENE-D5	13.40	82	313388	10.00	PPBV	0.02
95) CHLOROBENZENE-D5 (a)	13.40	82	313388	10.00	PPBV	0.02

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.03 95 178091 5.35 PPBV 0.02
 Spiked Amount 5.000 Range 65 - 128 Recovery = 107.00%

Target Compounds

Qvalue

3) FREON 152A	4.29	65	286089	28.24	PPBV	99
4) CHLORODIFLUOROMETHANE	4.32	67	110372	29.86	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.38	85	1118329	30.38	PPBV	99
6) PROPYLENE	4.33	41	381505	27.46	PPBV	99
7) FREON 114	4.54	85	1306392	30.74	PPBV	98
8) CHLOROMETHANE	4.49	50	444086	28.37	PPBV	100
9) VINYL CHLORIDE	4.62	62	494386	32.93	PPBV	100
10) 1,3-BUTADIENE	4.70	54	378312	31.74	PPBV	97
11) n-BUTANE	4.73	43	748290	30.90	PPBV	100
12) BROMOMETHANE	4.88	94	494790	32.65	PPBV	100
13) CHLOROETHANE	4.98	64	258145	35.64	PPBV	99
14) FREON 123	5.28	83	1100125	35.18	PPBV	99
15) FREON 123A	5.32	117	639569	35.47	PPBV	99
16) TRICHLOROFLUOROMETHANE	5.46	101	1143253	31.88	PPBV	99
17) ISOPROPYL ALCOHOL	5.60	45	848773	41.60	PPBV	97
18) ACETONE	5.38	58	208484	42.22	PPBV	100
19) PENTANE	5.65	42	547806	32.89	PPBV	94
21) IODOMETHANE	5.85	142	1462891	35.69	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.89	96	476098	32.13	PPBV	98
23) CARBON DISULFIDE	6.18	76	1358091	30.93	PPBV	100
24) ETHANOL	5.13	45	187201	36.76	PPBV	98
25) BROMOETHENE	5.21	106	518306	34.78	PPBV	100
26) METHYLENE CHLORIDE	5.99	84	398223	34.15	PPBV	99
27) 3-CHLOROPROPENE	6.05	76	211172	39.92	PPBV #	71
28) FREON 113	6.13	151	867336	34.79	PPBV	98
29) TRANS-1,2-DICHLOROETHYLENE	6.61	96	502422	35.68	PPBV	99
30) TERTIARY BUTYL ALCOHOL	5.99	59	992649	51.60	PPBV #	76
31) METHYL TERTIARY BUTYL ETHER	6.79	73	1249339	40.94	PPBV	99
32) TETRAHYDROFURAN	8.02	72	230588	46.13	PPBV	99
33) HEXANE	7.51	57	730794	32.65	PPBV	100
34) VINYL ACETATE	6.89	86	106718	46.77	PPBV #	95
35) 1,1-DICHLOROETHANE	6.78	63	827571	36.43	PPBV	99
36) METHYL ETHYL KETONE	7.09	72	230281	49.82	PPBV	96
37) cis-1,2-DICHLOROETHYLENE	7.46	96	497779	37.82	PPBV	100
38) DIISOPROPYL ETHER	7.53	45	1484947	41.37	PPBV	99
39) ETHYL ACETATE	7.62	61	158078	48.83	PPBV #	85
40) CHLOROFORM	7.69	83	923495	36.02	PPBV	98
41) 2,4-DIMETHYLPENTANE	8.23	57	881845	34.52	PPBV	99
42) 1,1,1-TRICHLOROETHANE	8.49	97	918985	36.38	PPBV	99
43) CARBON TETRACHLORIDE	9.03	117	1007840	36.02	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W20784.D M3W821.M Wed Feb 16 16:13:39 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20784.D
 Acq On : 16 Feb 2011 1:44 am
 Sample : IC821-40
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 14:24:19 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 14:24:16 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.29	62	546266	43.69	PPBV	99
46) BENZENE	8.91	78	1387250	36.62	PPBV	100
47) CYCLOHEXANE	9.08	56	764913	31.49	PPBV	98
48) 2,3-DIMETHYLPENTANE	9.26	71	333805	34.96	PPBV	91
49) TRICHLOROETHYLENE	9.84	95	607379	32.68	PPBV	98
50) 1,2-DICHLOROPROPANE	9.61	63	539393	38.72	PPBV	99
51) BROMODICHLOROMETHANE	9.83	83	971876	37.13	PPBV	99
52) 2,2,4-TRIMETHYLPENTANE	9.77	57	2205650	34.04	PPBV	100
53) 1,4-DIOXANE	9.92	88	335943	50.82	PPBV	99
54) HEPTANE	10.03	43	848743	32.17	PPBV	97
56) METHYL METHACRYLATE	10.06	69	487290	48.91	PPBV #	96
57) METHYL ISOBUTYL KETONE	10.69	58	425596	50.08	PPBV	98
58) cis-1,3-DICHLOROPROPENE	10.67	75	798542	44.58	PPBV	99
59) TOLUENE	11.59	92	953546	39.22	PPBV	97
60) trans-1,3-DICHLOROPROPENE	11.18	75	659632	49.98	PPBV	99
61) 1,1,2-TRICHLOROETHANE	11.34	83	478064	43.13	PPBV	99
63) 2-HEXANONE	11.88	58	541128	48.26	PPBV	95
64) TETRACHLOROETHYLENE	12.71	164	693301	31.18	PPBV	99
65) DIBROMOCHLOROMETHANE	12.04	129	1015998	37.22	PPBV	99
66) 1,2-DIBROMOETHANE	12.25	107	826330	40.85	PPBV	100
67) OCTANE	12.50	43	1075129	30.66	PPBV	97
68) 1,1,1,2-TETRACHLOROETHANE	13.42	131	714970	37.91	PPBV	100
69) CHLOROBENZENE	13.44	112	1146978	36.12	PPBV	98
70) ETHYLBENZENE	13.81	91	1826184	36.88	PPBV	98
71) m,p-XYLENE	14.00	106	1417001	76.76	PPBV	91
72) o-XYLENE	14.51	106	676665	38.99	PPBV	96
73) STYRENE	14.41	104	1004527	49.28	PPBV	99
74) NONANE	14.68	43	949468	32.86	PPBV	98
75) BROMOFORM	14.12	173	921492	38.70	PPBV	98
77) 1,1,2,2-TETRACHLOROETHANE	14.54	83	856626	46.74	PPBV	99
78) 1,2,3-TRICHLOROPROPANE	14.67	75	662105	46.58	PPBV	99
79) ISOPROPYLBENZENE	15.15	105	1858799	39.25	PPBV	98
80) 2-CHLOROTOLUENE	15.71	126	444929	40.88	PPBV	99
81) n-PROPYLBENZENE	15.74	120	478368	43.04	PPBV	98
82) 4-ETHYLTOLUENE	15.91	105	1556898	43.26	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	16.01	105	1241002	40.68	PPBV	97
84) tert-BUTYLBENZENE	16.49	134	317550	41.76	PPBV	96
85) 1,2,4-TRIMETHYLBENZENE	16.50	105	1143774	43.93	PPBV	98
86) m-DICHLOROBENZENE	16.70	146	759648	45.64	PPBV	100
87) BENZYL CHLORIDE	16.70	91	839647	48.07	PPBV	99
88) p-DICHLOROBENZENE	16.78	146	711240	43.62	PPBV	99
89) sec-BUTYLBENZENE	16.82	134	359614	46.36	PPBV #	92
90) p-ISOPROPYLTOLUENE	17.01	134	379218	50.42	PPBV #	88
91) o-DICHLOROBENZENE	17.21	146	646369	48.79	PPBV	99
92) n-BUTYLBENZENE	17.52	134	301261	49.65	PPBV	93
93) HEXACHLOROBUTADIENE	19.78	225	244688	45.43	PPBV	99
94) 1,2,4-TRICHLOROBENZENE	19.23	180	145703	43.47	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20784.D M3W821.M Wed Feb 16 16:13:39 2011 MS3W

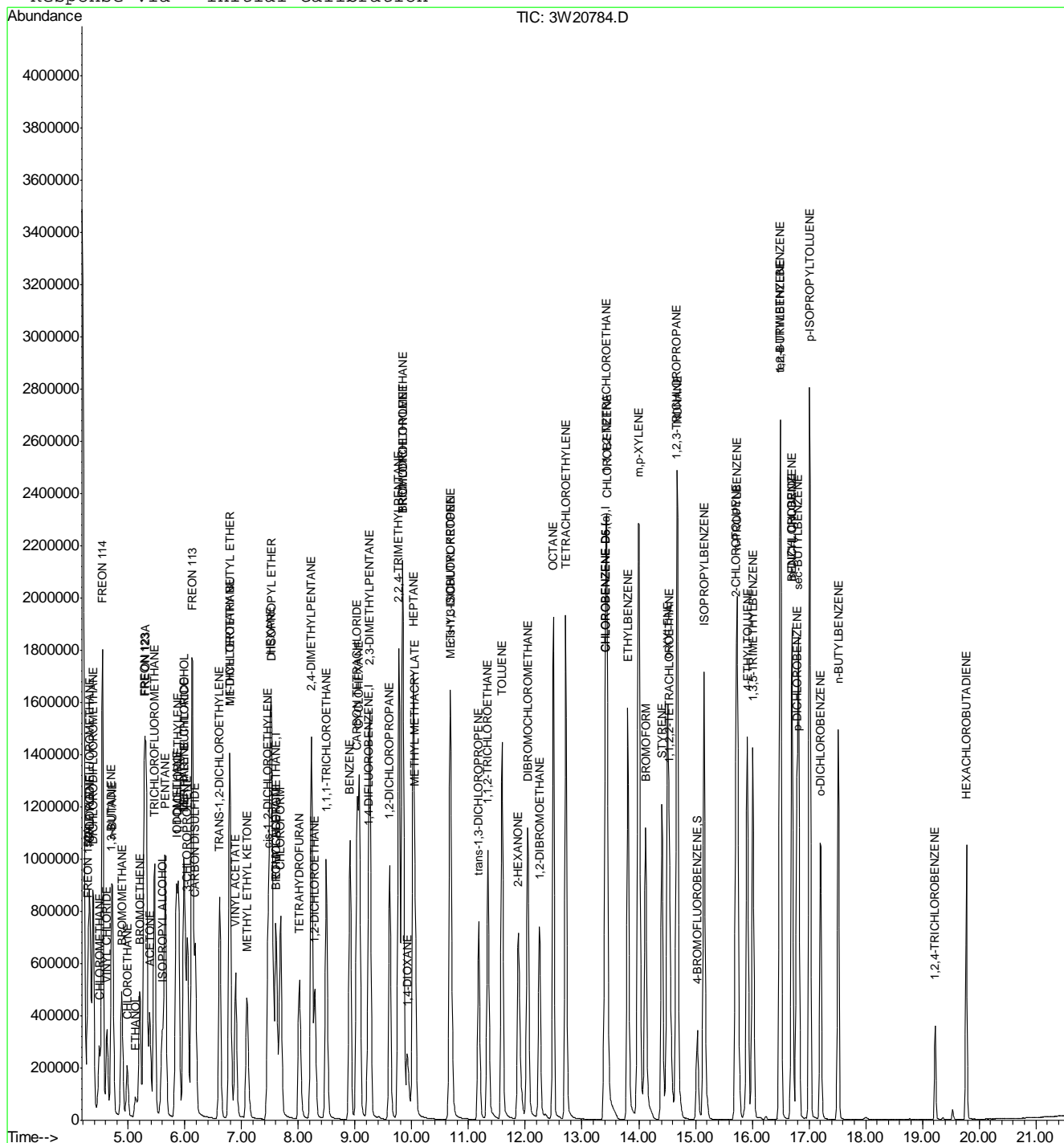
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20784.D
Acq On : 16 Feb 2011 1:44 am
Sample : IC821-40
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:24 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20785.D Vial: 7
Acq On : 16 Feb 2011 2:23 am Operator: yunxiac
Sample : NAP-0.5 Inst : MS3W
Misc : MS7827,V3W821,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 16 13:43:08 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 13:42:59 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	126806	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	595241	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	263185	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	263185	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	159519	5.70	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	114.00%

Target Compounds

					Qvalue	
96) NAPHTHALENE	19.36	128	6889	0.45	PPBV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W20785.D M3W821.M Wed Feb 16 16:18:47 2011 MS3W

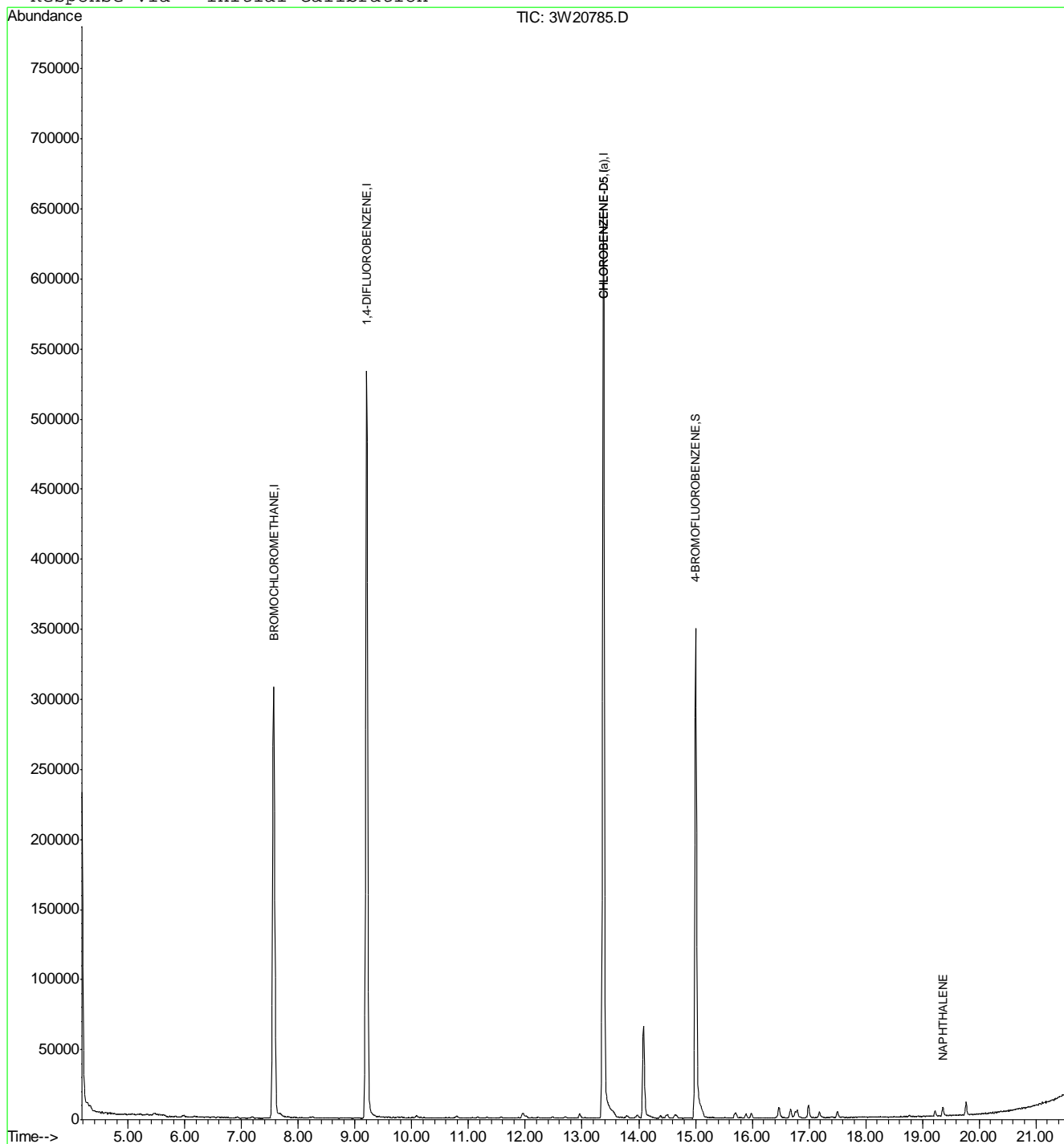
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20785.D
Acq On : 16 Feb 2011 2:23 am
Sample : NAP-0.5
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:20 2011

Vial: 7
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20786.D Vial: 7
Acq On : 16 Feb 2011 3:02 am Operator: yunxiac
Sample : NAP-0.2 Inst : MS3W
Misc : MS7827,V3W821,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 16 13:43:44 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 13:42:59 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	131208	10.00	PPBV	-0.01
45) 1,4-DIFLUOROBENZENE	9.20	114	639973	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	275674	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	275976	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	159836	5.45	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	109.00%

Target Compounds

					Qvalue	
96) NAPHTHALENE	19.36	128	2239	0.14	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W20786.D M3W821.M Wed Feb 16 16:18:48 2011 MS3W

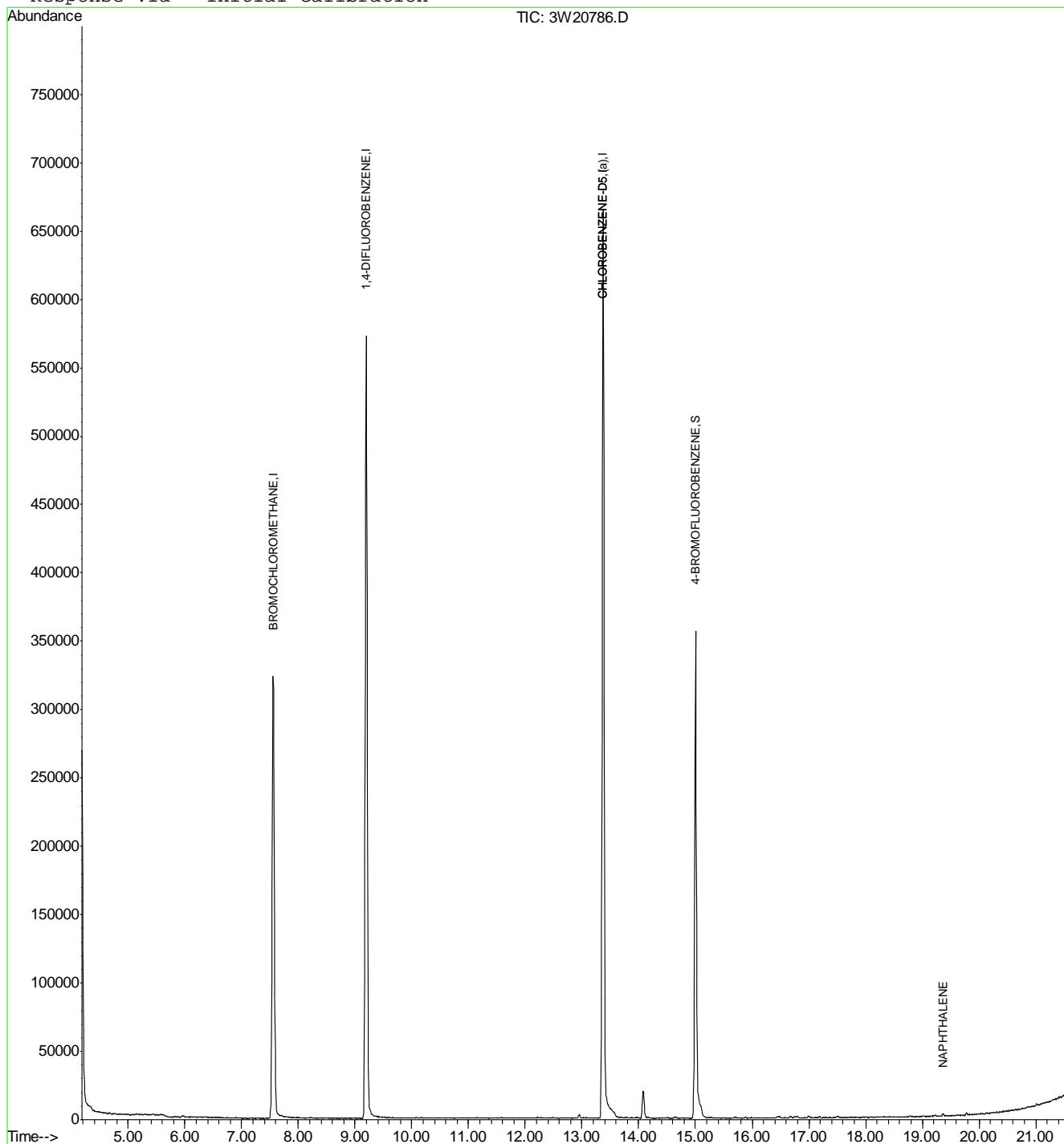
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20786.D
Acq On : 16 Feb 2011 3:02 am
Sample : NAP-0.2
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:21 2011

Vial: 7
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20787.D Vial: 6
Acq On : 16 Feb 2011 4:22 am Operator: yunxiac
Sample : NAP-20 Inst : MS3W
Misc : MS7827,V3W821,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 16 13:44:00 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 13:42:59 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	127920	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	639792	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	279986	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	279986	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	174767	5.87	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	117.40%

Target Compounds

						Qvalue
96) NAPHTHALENE	19.36	128	501724	30.82	PPBV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W20787.D M3W821.M Wed Feb 16 16:18:48 2011 MS3W

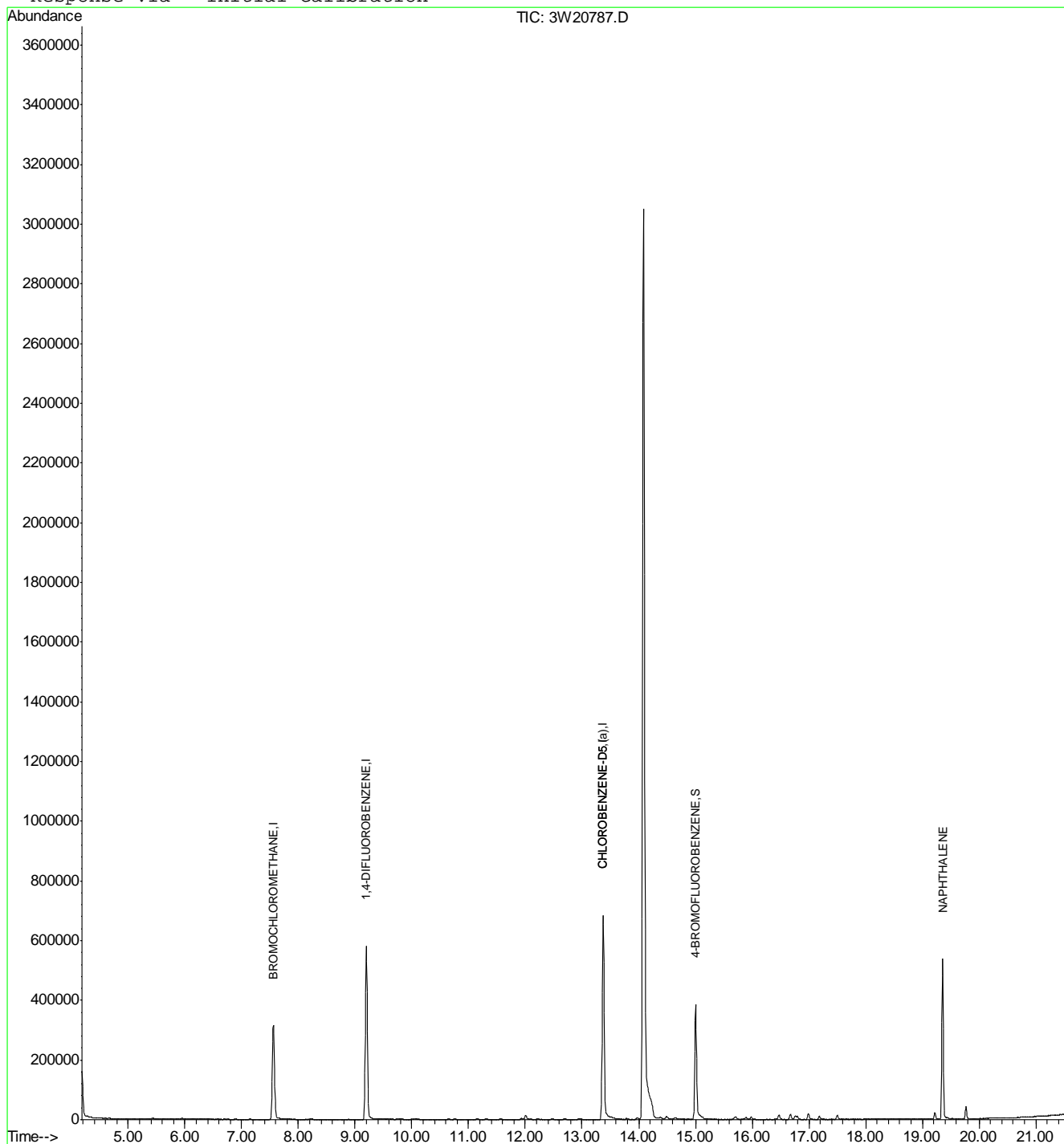
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20787.D
Acq On : 16 Feb 2011 4:22 am
Sample : NAP-20
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:22 2011

Vial: 6
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20788.D Vial: 6
Acq On : 16 Feb 2011 5:06 am Operator: yunxiac
Sample : NAP-40 Inst : MS3W
Misc : MS7827,V3W821,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 16 13:44:16 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 13:42:59 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	120070	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	595950	10.00	PPBV	-0.01
62) CHLOROBENZENE-D5	13.37	82	272405	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	273150	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	168444	5.82	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	116.40%

Target Compounds

96) NAPHTHALENE	19.36	128	823348	51.85	PPBV	Qvalue 96
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W20788.D M3W821.M Wed Feb 16 16:18:49 2011 MS3W

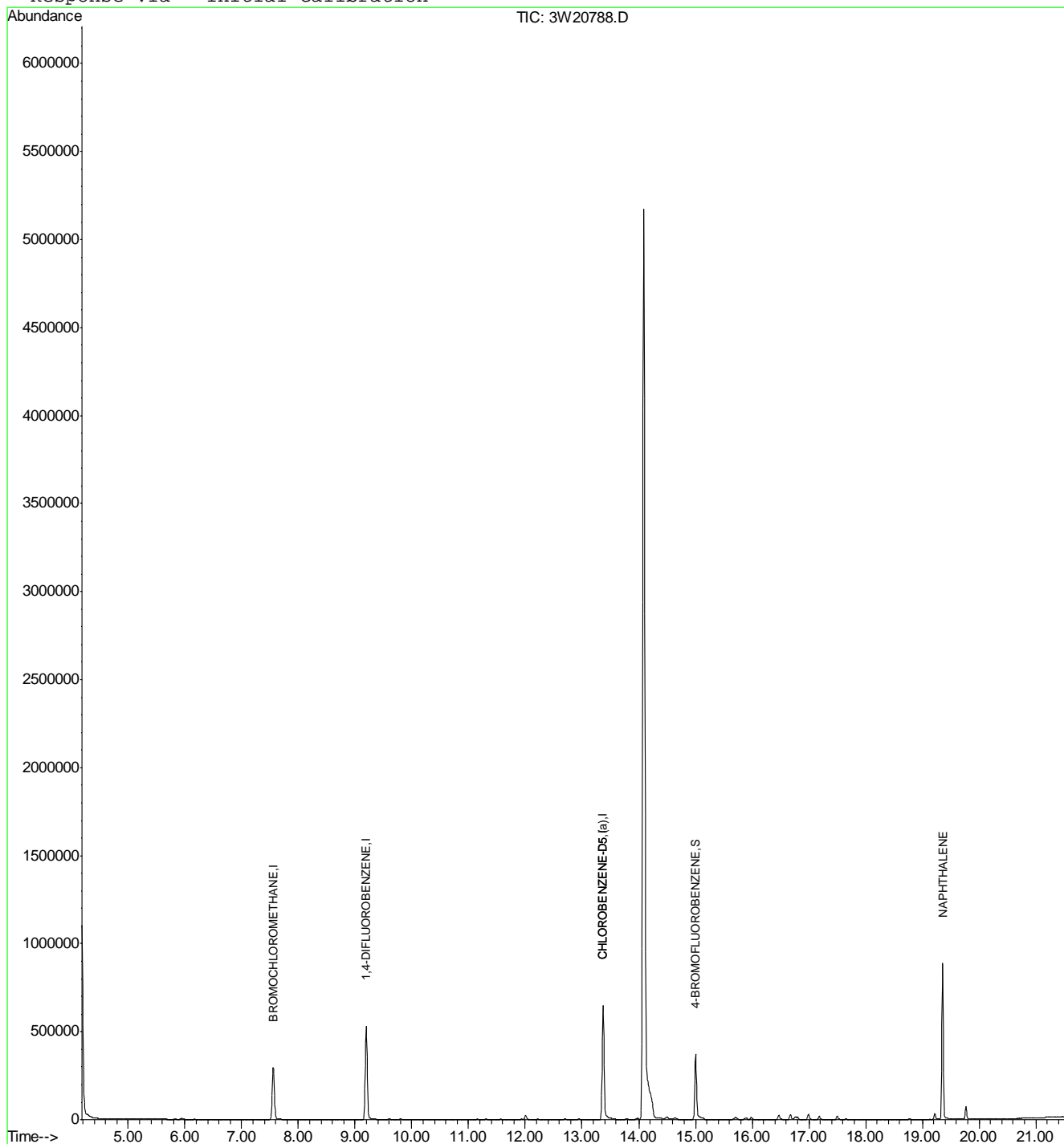
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20788.D
Acq On : 16 Feb 2011 5:06 am
Sample : NAP-40
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 15:22 2011

Vial: 6
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20789.D
 Acq On : 16 Feb 2011 7:02 am
 Sample : IC821-0.2
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:46:13 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:46:10 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.55	128	122105	10.00	PPBV	-0.02
45) 1,4-DIFLUOROBENZENE	9.19	114	585920	10.00	PPBV	-0.02
62) CHLOROBENZENE-D5	13.37	82	212921	10.00	PPBV	-0.01
95) CHLOROBENZENE-D5 (a)	13.37	82	213525	10.00	PPBV	-0.01

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.00	95	99327	4.09	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	81.80%

Target Compounds

						Qvalue
3) FREON 152A	4.28	65	3082	0.35	PPBV	94
4) CHLORODIFLUOROMETHANE	4.31	67	1002	0.31	PPBV	75
5) DICHLORODIFLUOROMETHANE	4.37	85	7946	0.24	PPBV	98
6) PROPYLENE	4.32	41	4391	0.37	PPBV	96
7) FREON 114	4.53	85	9057	0.23	PPBV	97
8) CHLOROMETHANE	4.48	50	3850	0.27	PPBV	95
9) VINYL CHLORIDE	4.61	62	3264	0.23	PPBV	97
10) 1,3-BUTADIENE	4.68	54	2435	0.23	PPBV #	84
11) n-BUTANE	4.71	43	5339	0.24	PPBV	94
12) BROMOMETHANE	4.87	94	3145	0.22	PPBV	99
13) CHLOROETHANE	4.96	64	1253	0.18	PPBV	90
14) FREON 123	5.26	83	5294	0.18	PPBV	97
15) FREON 123A	5.29	117	3032	0.18	PPBV	88
16) TRICHLOROFLUOROMETHANE	5.44	101	7015	0.21	PPBV	94
17) ISOPROPYL ALCOHOL	5.61	45	3487	0.17	PPBV #	1
18) ACETONE	5.41	58	954	0.19	PPBV #	85
19) PENTANE	5.62	42	3835	0.24	PPBV	97
21) IODOMETHANE	5.82	142	7633	0.19	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.86	96	2926	0.21	PPBV	98
23) CARBON DISULFIDE	6.16	76	9693	0.24	PPBV	98
24) ETHANOL	5.14	45	1378	0.28	PPBV	91
25) BROMOETHENE	5.19	106	3007	0.20	PPBV	96
26) METHYLENE CHLORIDE	5.96	84	2592	0.23	PPBV	99
27) 3-CHLOROPROPENE	6.02	76	933	0.17	PPBV #	68
28) FREON 113	6.10	151	4476	0.18	PPBV	97
29) TRANS-1,2-DICHLOROETHYLENE	6.58	96	2319	0.17	PPBV	94
30) TERTIARY BUTYL ALCOHOL	6.03	59	3039	0.16	PPBV #	74
31) METHYL TERTIARY BUTYL ETHER	6.83	73	4678	0.15	PPBV #	68
32) TETRAHYDROFURAN	8.09	72	626	0.12	PPBV #	67
33) HEXANE	7.47	57	4292	0.20	PPBV	88
34) VINYL ACETATE	6.87	86	244	0.10	PPBV #	37
35) 1,1-DICHLOROETHANE	6.74	63	3818	0.17	PPBV	78
36) METHYL ETHYL KETONE	7.12	72	566	0.11	PPBV #	84
37) cis-1,2-DICHLOROETHYLENE	7.44	96	2262	0.18	PPBV	96
38) DIISOPROPYL ETHER	7.54	45	5690	0.15	PPBV	97
39) ETHYL ACETATE	7.62	61	402	0.12	PPBV #	96
40) CHLOROFORM	7.63	83	4415	0.18	PPBV	96
41) 2,4-DIMETHYLPENTANE	8.21	57	4487	0.18	PPBV	98
42) 1,1,1-TRICHLOROETHANE	8.46	97	4480	0.18	PPBV	98
43) CARBON TETRACHLORIDE	9.00	117	4876	0.17	PPBV	97

(#) = qualifier out of range (m) = manual integration

3W20789.D M3W821.M

Wed Feb 16 16:13:40 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20789.D
 Acq On : 16 Feb 2011 7:02 am
 Sample : IC821-0.2
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:46:13 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:46:10 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.25	62	2212	0.16	PPBV	94
46) BENZENE	8.88	78	6186	0.18	PPBV	96
47) CYCLOHEXANE	9.05	56	4536	0.21	PPBV	96
48) 2,3-DIMETHYLPENTANE	9.22	71	1563	0.17	PPBV #	1
49) TRICHLOROETHYLENE	9.81	95	5207	0.34	PPBV	98
50) 1,2-DICHLOROPROPANE	9.58	63	2182	0.17	PPBV	97
51) BROMODICHLOROMETHANE	9.79	83	4299	0.18	PPBV	96
52) 2,2,4-TRIMETHYLPENTANE	9.74	57	11074	0.19	PPBV	99
53) 1,4-DIOXANE	10.03	88	713	0.11	PPBV #	39
54) HEPTANE	9.99	43	4834	0.21	PPBV	94
56) METHYL METHACRYLATE	10.04	69	1329	0.13	PPBV #	52
57) METHYL ISOBUTYL KETONE	10.72	58	933	0.11	PPBV #	75
58) cis-1,3-DICHLOROPROPENE	10.65	75	2474	0.14	PPBV	93
59) TOLUENE	11.56	92	3914	0.17	PPBV	96
60) trans-1,3-DICHLOROPROPENE	11.14	75	1696	0.12	PPBV	87
61) 1,1,2-TRICHLOROETHANE	11.30	83	1568	0.14	PPBV	97
63) 2-HEXANONE	11.91	58	977	0.12	PPBV #	83
64) TETRACHLOROETHYLENE	12.69	164	3240	0.24	PPBV	98
65) DIBROMOCHLOROMETHANE	12.00	129	3284	0.18	PPBV	99
66) 1,2-DIBROMOETHANE	12.22	107	2245	0.16	PPBV #	93
67) OCTANE	12.47	43	5100	0.23	PPBV	97
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	2310	0.18	PPBV	93
69) CHLOROBENZENE	13.41	112	3948	0.19	PPBV	92
70) ETHYLBENZENE	13.78	91	5966	0.18	PPBV	98
71) m,p-XYLENE	13.97	106	4470	0.35	PPBV	97
72) o-XYLENE	14.48	106	2027	0.17	PPBV	88
73) STYRENE	14.37	104	1981	0.12	PPBV	96
74) NONANE	14.66	43	3516	0.19	PPBV	98
75) BROMOFORM	14.08	173	4681	0.30	PPBV	98
77) 1,1,2,2-TETRACHLOROETHANE	14.50	83	1718	0.12	PPBV	90
78) 1,2,3-TRICHLOROPROPANE	14.62	75	1576	0.14	PPBV	95
79) ISOPROPYLBENZENE	15.12	105	5523	0.17	PPBV	98
80) 2-CHLOROTOLUENE	15.68	126	1247	0.16	PPBV	97
81) n-PROPYLBENZENE	15.71	120	1238	0.15	PPBV	95
82) 4-ETHYLTOLUENE	15.88	105	3928	0.15	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	3449	0.16	PPBV	99
84) tert-BUTYLBENZENE	16.47	134	798	0.15	PPBV #	90
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	2951	0.15	PPBV	96
86) m-DICHLOROBENZENE	16.67	146	1704	0.14	PPBV	99
87) BENZYL CHLORIDE	16.67	91	1693	0.13	PPBV	92
88) p-DICHLOROBENZENE	16.76	146	1735	0.15	PPBV	95
89) sec-BUTYLBENZENE	16.79	134	831	0.14	PPBV	97
90) p-ISOPROPYLTOLUENE	16.98	134	780	0.13	PPBV #	89
91) o-DICHLOROBENZENE	17.18	146	1266	0.12	PPBV	90
92) n-BUTYLBENZENE	17.50	134	585	0.13	PPBV	92
93) HEXACHLOROBUTADIENE	19.77	225	457	0.12	PPBV	83
94) 1,2,4-TRICHLOROBENZENE	19.22	180	390	0.17	PPBV #	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20789.D M3W821.M Wed Feb 16 16:13:40 2011 MS3W

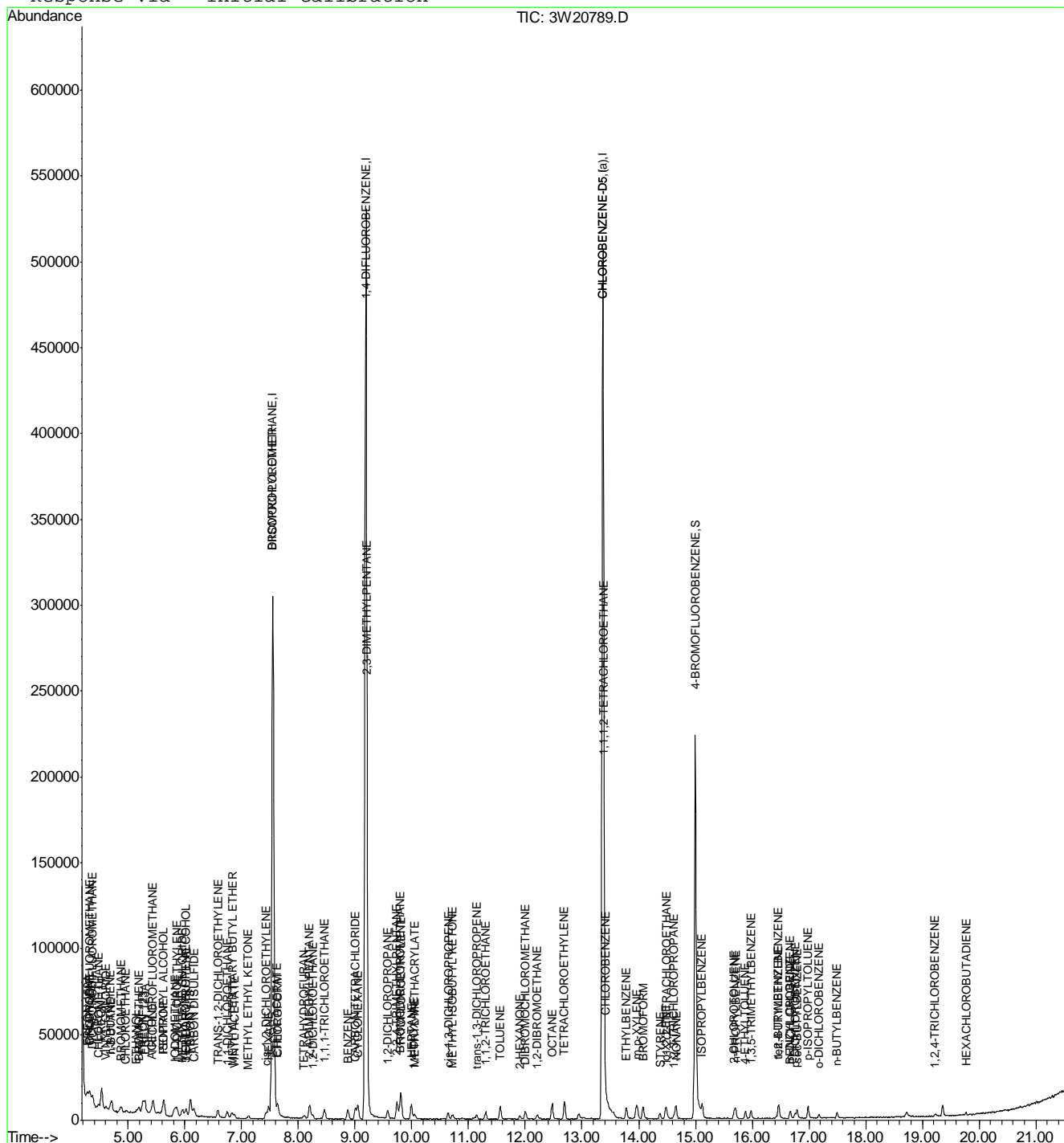
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20789.D
Acq On : 16 Feb 2011 7:02 am
Sample : IC821-0.2
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 12:46 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Initial Calibration



3W20789.D M3W821.M

Wed Feb 16 16:13:41 2011

MS3W

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6.7.28



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20790.D
 Acq On : 16 Feb 2011 10:32 am
 Sample : IC821-5
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:42:56 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:39:01 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.56	128	157191	10.00	PPBV	-0.01
45) 1,4-DIFLUOROBENZENE	9.19	114	795574	10.00	PPBV	-0.02
62) CHLOROBENZENE-D5	13.37	82	353147	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	355522	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 214945 5.00 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 100.00%

Target Compounds

						Qvalue
3) FREON 152A	4.28	65	53391	5.24	PPBV	99
4) CHLORODIFLUOROMETHANE	4.31	67	19928	4.78	PPBV	94
5) DICHLORODIFLUOROMETHANE	4.37	85	213185	4.87	PPBV	100
6) PROPYLENE	4.32	41	73086	4.90	PPBV	99
7) FREON 114	4.53	85	249004	4.82	PPBV	99
8) CHLOROMETHANE	4.48	50	96938	5.76	PPBV	90
9) VINYL CHLORIDE	4.60	62	88531	4.76	PPBV	100
10) 1,3-BUTADIENE	4.69	54	65331	4.71	PPBV	99
11) n-BUTANE	4.71	43	138690	4.81	PPBV	100
12) BROMOMETHANE	4.87	94	87218	4.74	PPBV	100
13) CHLOROETHANE	4.96	64	42829	5.06	PPBV	99
14) FREON 123	5.26	83	161365	4.50	PPBV	99
15) FREON 123A	5.30	117	93232	4.43	PPBV	97
16) TRICHLOROFLUOROMETHANE	5.44	101	207555	4.66	PPBV	99
17) ISOPROPYL ALCOHOL	5.54	45	108416	3.86	PPBV	97
18) ACETONE	5.37	58	24925	3.74	PPBV	99
19) PENTANE	5.63	42	92280	4.65	PPBV	100
21) IODOMETHANE	5.82	142	250931	4.86	PPBV	100
22) 1,1-DICHLOROETHYLENE	5.86	96	82856	4.69	PPBV	98
23) CARBON DISULFIDE	6.16	76	251333	4.81	PPBV	98
24) ETHANOL	5.09	45	24707	4.04	PPBV	99
25) BROMOETHENE	5.19	106	89260	4.69	PPBV	100
26) METHYLENE CHLORIDE	5.96	84	61500	4.77	PPBV	98
27) 3-CHLOROPROPENE	6.02	76	28536	4.37	PPBV	98
28) FREON 113	6.11	151	150434	4.69	PPBV	99
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	85060	5.19	PPBV	99
30) TERTIARY BUTYL ALCOHOL	5.94	59	126989	3.94	PPBV	97
31) METHYL TERTIARY BUTYL ETHER	6.78	73	147974	3.69	PPBV	99
32) TETRAHYDROFURAN	8.01	72	26293	3.71	PPBV	100
33) HEXANE	7.48	57	127157	4.59	PPBV	96
34) VINYL ACETATE	6.86	86	11503	3.65	PPBV	99
35) 1,1-DICHLOROETHANE	6.75	63	116442	4.44	PPBV	100
36) METHYL ETHYL KETONE	7.07	72	25884	3.72	PPBV	94
37) cis-1,2-DICHLOROETHYLENE	7.43	96	68282	4.37	PPBV	98
38) DIISOPROPYL ETHER	7.51	45	180618	3.70	PPBV	100
39) ETHYL ACETATE	7.58	61	16071	3.65	PPBV	99
40) CHLOROFORM	7.64	83	132022	4.37	PPBV	99
41) 2,4-DIMETHYLPENTANE	8.20	57	149595	5.01	PPBV	99
42) 1,1,1-TRICHLOROETHANE	8.46	97	129760	4.40	PPBV	100
43) CARBON TETRACHLORIDE	9.01	117	174711	5.11	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W20790.D M3W821.M

Wed Feb 16 16:13:42 2011

MS3W

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20790.D
 Acq On : 16 Feb 2011 10:32 am
 Sample : IC821-5
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:42:56 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:39:01 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.25	62	67478	4.03	PPBV	100
46) BENZENE	8.88	78	173355	4.09	PPBV	100
47) CYCLOHEXANE	9.05	56	132994	4.67	PPBV	99
48) 2,3-DIMETHYLPENTANE	9.23	71	51659	4.82	PPBV	97
49) TRICHLOROETHYLENE	9.81	95	85931	4.48	PPBV	99
50) 1,2-DICHLOROPROPANE	9.57	63	61974	3.84	PPBV	98
51) BROMODICHLOROMETHANE	9.79	83	130487	4.28	PPBV	99
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	324576	4.49	PPBV	100
53) 1,4-DIOXANE	9.92	88	35181	3.72	PPBV	98
54) HEPTANE	9.99	43	128640	4.55	PPBV	99
56) METHYL METHACRYLATE	10.03	69	50585	3.72	PPBV #	93
57) METHYL ISOBUTYL KETONE	10.66	58	39513	3.65	PPBV	97
58) cis-1,3-DICHLOROPROPENE	10.64	75	91141	3.92	PPBV	99
59) TOLUENE	11.56	92	110421	3.83	PPBV	99
60) trans-1,3-DICHLOROPROPENE	11.14	75	69425	3.73	PPBV	98
61) 1,1,2-TRICHLOROETHANE	11.30	83	55705	3.87	PPBV	99
63) 2-HEXANONE	11.85	58	46780	3.67	PPBV	97
64) TETRACHLOROETHYLENE	12.70	164	93560	4.45	PPBV	100
65) DIBROMOCHLOROMETHANE	12.01	129	117513	4.06	PPBV	99
66) 1,2-DIBROMOETHANE	12.22	107	89922	3.92	PPBV	100
67) OCTANE	12.48	43	147643	4.33	PPBV	100
68) 1,1,1,2-TETRACHLOROETHANE	13.39	131	79019	3.83	PPBV	99
69) CHLOROBENZENE	13.41	112	131453	3.97	PPBV	97
70) ETHYLBENZENE	13.78	91	208905	3.82	PPBV	98
71) m,p-XYLENE	13.97	106	158422	7.70	PPBV	100
72) o-XYLENE	14.48	106	78022	3.94	PPBV	99
73) STYRENE	14.37	104	99806	3.71	PPBV	100
74) NONANE	14.66	43	122446	4.03	PPBV	99
75) BROMOFORM	14.08	173	97302	3.77	PPBV	100
77) 1,1,2,2-TETRACHLOROETHANE	14.50	83	93971	3.81	PPBV	99
78) 1,2,3-TRICHLOROPROPANE	14.62	75	72224	3.80	PPBV	99
79) ISOPROPYLBENZENE	15.12	105	218293	3.85	PPBV	99
80) 2-CHLOROTOLUENE	15.69	126	51153	3.93	PPBV	99
81) n-PROPYLBENZENE	15.71	120	53362	3.84	PPBV	98
82) 4-ETHYLTOLUENE	15.88	105	175570	3.77	PPBV	100
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	147626	3.83	PPBV	100
84) tert-BUTYLBENZENE	16.46	134	35152	3.74	PPBV	96
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	132319	3.87	PPBV	99
86) m-DICHLOROBENZENE	16.67	146	82029	3.85	PPBV	99
87) BENZYL CHLORIDE	16.67	91	76717	3.62	PPBV	99
88) p-DICHLOROBENZENE	16.76	146	77788	3.85	PPBV	99
89) sec-BUTYLBENZENE	16.80	134	39889	3.79	PPBV	99
90) p-ISOPROPYLTOLUENE	16.98	134	38162	3.82	PPBV	100
91) o-DICHLOROBENZENE	17.18	146	68335	3.80	PPBV	99
92) n-BUTYLBENZENE	17.50	134	26522	3.68	PPBV	97
93) HEXACHLOROBUTADIENE	19.77	225	29669	4.05	PPBV	99
94) 1,2,4-TRICHLOROBENZENE	19.22	180	18190	3.63	PPBV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20790.D M3W821.M Wed Feb 16 16:13:42 2011 MS3W

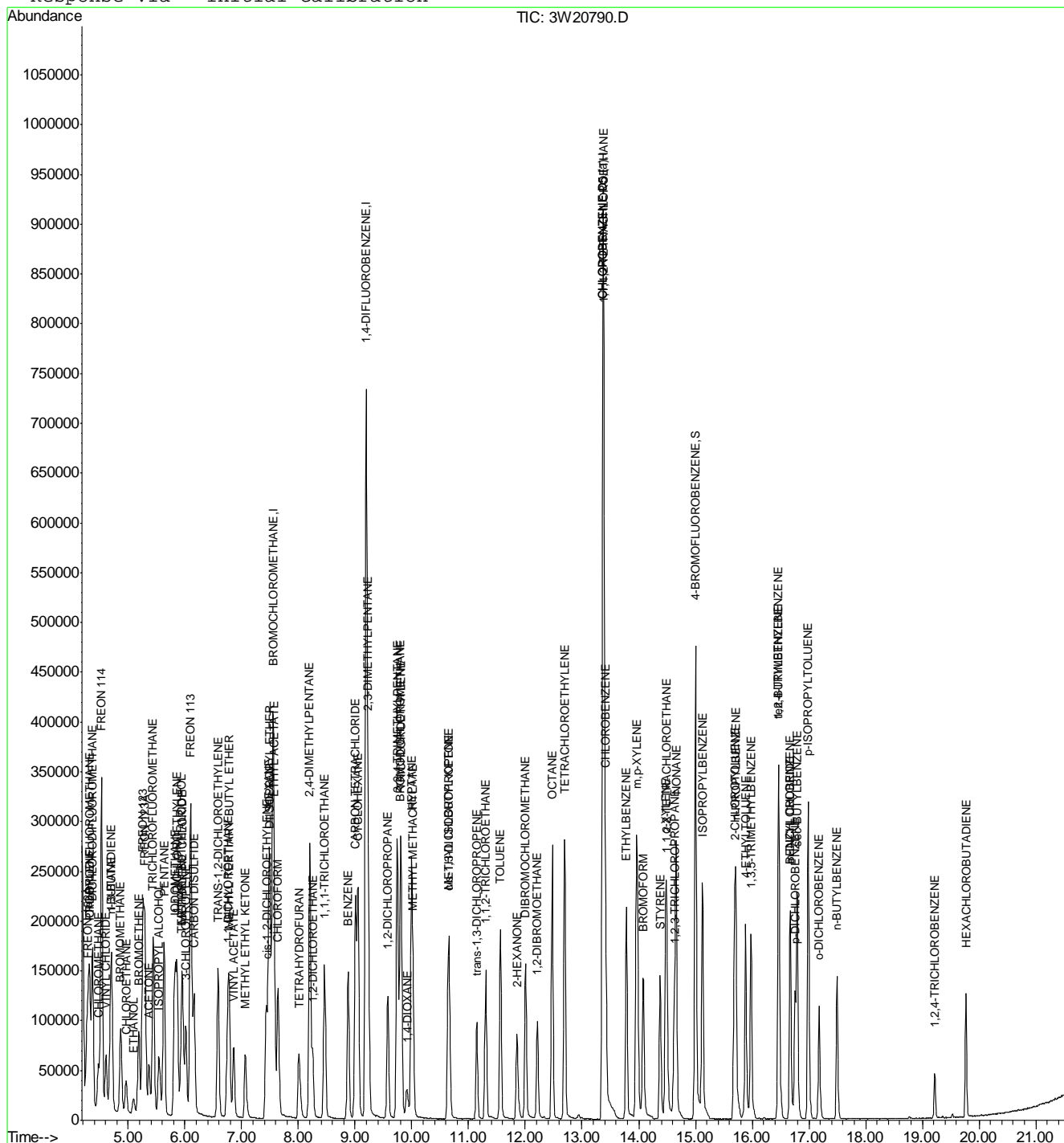
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20790.D
Acq On : 16 Feb 2011 10:32 am
Sample : IC821-5
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 12:43 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20791.D
 Acq On : 16 Feb 2011 11:55 am
 Sample : ICC821-10
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:38:17 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:38:13 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	121224	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.21	114	620189	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	283614	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	283614	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE	15.01	95	172606	5.00	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	100.00%

Target Compounds

Qvalue

3) FREON 152A	4.28	65	78591	10.00	PPBV	100
4) CHLORODIFLUOROMETHANE	4.31	67	32129	10.07	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.37	85	337341	10.00	PPBV	100
6) PROPYLENE	4.33	41	115102	10.00	PPBV	100
7) FREON 114	4.54	85	398166	10.03	PPBV	100
8) CHLOROMETHANE	4.48	50	129749	10.00	PPBV	100
9) VINYL CHLORIDE	4.62	62	143390	9.97	PPBV	100
10) 1,3-BUTADIENE	4.70	54	107028	10.00	PPBV	100
11) n-BUTANE	4.72	43	222464	10.00	PPBV	100
12) BROMOMETHANE	4.88	94	141878	10.00	PPBV	100
13) CHLOROETHANE	4.97	64	65308	10.00	PPBV	100
14) FREON 123	5.27	83	276509	10.00	PPBV	100
15) FREON 123A	5.31	117	162202	10.00	PPBV	100
16) TRICHLOROFLUOROMETHANE	5.45	101	343712	10.01	PPBV	100
17) ISOPROPYL ALCOHOL	5.56	45	216667	10.04	PPBV	100
18) ACETONE	5.37	58	51328	10.00	PPBV	100
19) PENTANE	5.64	42	152917	10.00	PPBV	100
21) IODOMETHANE	5.83	142	397928	10.00	PPBV	100
22) 1,1-DICHLOROETHYLENE	5.88	96	136191	10.00	PPBV	100
23) CARBON DISULFIDE	6.17	76	402806	10.00	PPBV	100
24) ETHANOL	5.11	45	47219	10.00	PPBV	100
25) BROMOETHENE	5.20	106	146749	10.00	PPBV	100
26) METHYLENE CHLORIDE	5.97	84	99353	10.00	PPBV	100
27) 3-CHLOROPROPENE	6.03	76	50332	10.00	PPBV	100
28) FREON 113	6.11	151	247169	10.00	PPBV	100
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	126362	10.00	PPBV	100
30) TERTIARY BUTYL ALCOHOL	5.96	59	248732	10.00	PPBV	100
31) METHYL TERTIARY BUTYL ETHER	6.79	73	308845	10.00	PPBV	100
32) TETRAHYDROFURAN	8.01	72	54701	10.00	PPBV	100
33) HEXANE	7.49	57	213522	10.00	PPBV	100
34) VINYL ACETATE	6.87	86	24296	10.00	PPBV	100
35) 1,1-DICHLOROETHANE	6.76	63	202159	10.00	PPBV	100
36) METHYL ETHYL KETONE	7.07	72	53597	10.00	PPBV	100
37) cis-1,2-DICHLOROETHYLENE	7.45	96	120557	10.00	PPBV	100
38) DIISOPROPYL ETHER	7.51	45	376829	10.00	PPBV	100
39) ETHYL ACETATE	7.59	61	33926	10.00	PPBV	100
40) CHLOROFORM	7.66	83	233046	10.00	PPBV	100
41) 2,4-DIMETHYLPENTANE	8.21	57	230054	10.00	PPBV	100
42) 1,1,1-TRICHLOROETHANE	8.47	97	227683	10.00	PPBV	100
43) CARBON TETRACHLORIDE	9.02	117	263728	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W20791.D M3W821.M Wed Feb 16 16:13:44 2011 MS3W

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20791.D
 Acq On : 16 Feb 2011 11:55 am
 Sample : ICC821-10
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 12:38:17 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 12:38:13 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.27	62	129227	10.00	PPBV	100
46) BENZENE	8.89	78	330098	10.00	PPBV	100
47) CYCLOHEXANE	9.06	56	222030	10.00	PPBV	100
48) 2,3-DIMETHYLPENTANE	9.24	71	83580	10.00	PPBV	100
49) TRICHLOROETHYLENE	9.82	95	149397	10.00	PPBV	100
50) 1,2-DICHLOROPROPANE	9.59	63	125669	10.00	PPBV	100
51) BROMODICHLOROMETHANE	9.81	83	237761	9.98	PPBV	100
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	563884	10.00	PPBV	100
53) 1,4-DIOXANE	9.91	88	73780	10.00	PPBV	100
54) HEPTANE	10.01	43	220346	10.00	PPBV	100
56) METHYL METHACRYLATE	10.04	69	105984	10.00	PPBV #	100
57) METHYL ISOBUTYL KETONE	10.67	58	84330	10.00	PPBV	100
58) cis-1,3-DICHLOROPROPENE	10.65	75	181034	10.00	PPBV	100
59) TOLUENE	11.57	92	224973	9.99	PPBV	100
60) trans-1,3-DICHLOROPROPENE	11.16	75	145195	10.00	PPBV	100
61) 1,1,2-TRICHLOROETHANE	11.32	83	112345	10.00	PPBV	100
63) 2-HEXANONE	11.86	58	102431	10.00	PPBV	100
64) TETRACHLOROETHYLENE	12.70	164	168680	10.00	PPBV	100
65) DIBROMOCHLOROMETHANE	12.01	129	232637	10.00	PPBV	100
66) 1,2-DIBROMOETHANE	12.22	107	184018	10.00	PPBV	100
67) OCTANE	12.48	43	273928	10.00	PPBV	100
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	165708	10.00	PPBV	100
69) CHLOROBENZENE	13.43	112	265825	10.04	PPBV	100
70) ETHYLBENZENE	13.79	91	439575	10.00	PPBV	100
71) m,p-XYLENE	13.97	106	330382	20.00	PPBV	100
72) o-XYLENE	14.48	106	159113	10.00	PPBV	100
73) STYRENE	14.39	104	216284	10.00	PPBV	100
74) NONANE	14.67	43	244270	10.00	PPBV	100
75) BROMOFORM	14.09	173	207242	10.00	PPBV	100
77) 1,1,2,2-TETRACHLOROETHANE	14.51	83	197891	10.00	PPBV	100
78) 1,2,3-TRICHLOROPROPANE	14.64	75	152683	10.00	PPBV	100
79) ISOPROPYLBENZENE	15.13	105	455128	10.00	PPBV	100
80) 2-CHLOROTOLUENE	15.70	126	104444	10.00	PPBV	100
81) n-PROPYLBENZENE	15.72	120	111693	10.00	PPBV	100
82) 4-ETHYLTOLUENE	15.89	105	374486	10.00	PPBV	100
83) 1,3,5-TRIMETHYLBENZENE	15.99	105	309406	10.00	PPBV	100
84) tert-BUTYLBENZENE	16.47	134	75582	10.00	PPBV	100
85) 1,2,4-TRIMETHYLBENZENE	16.48	105	274351	10.00	PPBV	100
86) m-DICHLOROBENZENE	16.67	146	171121	10.00	PPBV	100
87) BENZYL CHLORIDE	16.68	91	170390	10.00	PPBV	100
88) p-DICHLOROBENZENE	16.77	146	162161	10.00	PPBV	100
89) sec-BUTYLBENZENE	16.80	134	84574	10.00	PPBV	100
90) p-ISOPROPYLTOLUENE	16.99	134	80224	10.00	PPBV	100
91) o-DICHLOROBENZENE	17.19	146	144283	10.00	PPBV	100
92) n-BUTYLBENZENE	17.50	134	57865	10.00	PPBV	100
93) HEXACHLOROBUTADIENE	19.77	225	58768	10.00	PPBV	100
94) 1,2,4-TRICHLOROBENZENE	19.22	180	40294	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20791.D M3W821.M Wed Feb 16 16:13:44 2011 MS3W

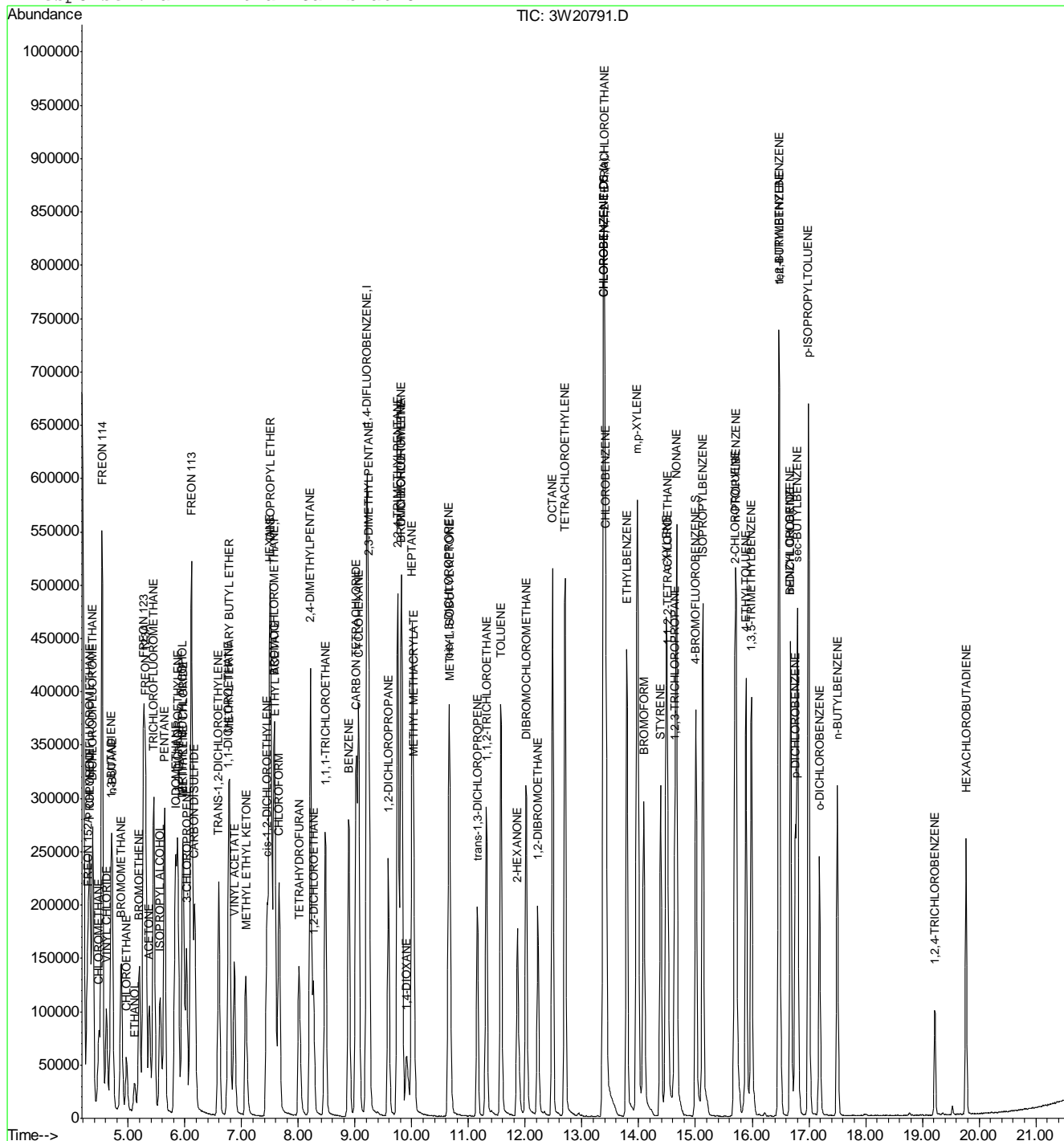
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20791.D
Acq On : 16 Feb 2011 11:55 am
Sample : ICC821-10
Misc : MS7827,V3W821,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 16 12:38 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 15:27:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20792.D
 Acq On : 16 Feb 2011 12:49 pm
 Sample : ICV821-10
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 16:18:49 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	124915	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	648488	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	299835	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	300630	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.01 95 182085 5.71 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 114.20%

Target Compounds

Qvalue

3) FREON 152A	4.28	65	78065	7.71	PPBV	99
4) CHLORODIFLUOROMETHANE	4.31	67	32138	8.70	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.37	85	342192	9.30	PPBV	100
6) PROPYLENE	4.32	41	114436	8.24	PPBV	98
7) FREON 114	4.53	85	395552	9.31	PPBV	100
8) CHLOROMETHANE	4.48	50	129119	8.26	PPBV	99
9) VINYL CHLORIDE	4.61	62	144849	9.66	PPBV	100
10) 1,3-BUTADIENE	4.69	54	107972	9.07	PPBV	100
11) n-BUTANE	4.71	43	223675	9.24	PPBV	100
12) BROMOMETHANE	4.87	94	143522	9.48	PPBV	99
13) CHLOROETHANE	4.97	64	66005	9.12	PPBV	100
14) FREON 123	5.27	83	276533	8.85	PPBV	100
15) FREON 123A	5.30	117	160015	8.88	PPBV	99
16) TRICHLOROFLUOROMETHANE	5.45	101	339232	9.47	PPBV	99
17) ISOPROPYL ALCOHOL	5.56	45	209719	10.29	PPBV	99
18) ACETONE	5.37	58	50145	10.16	PPBV	100
19) PENTANE	5.64	42	149442	8.98	PPBV	99
21) IDOMETHANE	5.83	142	404434	9.88	PPBV	99
22) 1,1-DICHLOROETHYLENE	5.87	96	137272	9.27	PPBV	98
23) CARBON DISULFIDE	6.17	76	400123	9.12	PPBV	100
24) ETHANOL	5.11	45	46264	9.09	PPBV	100
25) BROMOETHENE	5.19	106	146940	9.87	PPBV	99
26) METHYLENE CHLORIDE	5.97	84	99744	8.56	PPBV	100
27) 3-CHLOROPROPENE	6.03	76	50653	9.58	PPBV	98
28) FREON 113	6.11	151	249704	10.02	PPBV	99
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	129778	9.23	PPBV	98
30) TERTIARY BUTYL ALCOHOL	5.95	59	242710	10.44	PPBV	99
31) METHYL TERTIARY BUTYL ETHER	6.78	73	300861	9.87	PPBV	100
32) TETRAHYDROFURAN	8.01	72	53072	10.63	PPBV	99
33) HEXANE	7.49	57	210702	9.42	PPBV	99
34) VINYL ACETATE	6.87	86	24696	10.83	PPBV #	92
35) 1,1-DICHLOROETHANE	6.76	63	203063	8.95	PPBV	99
36) METHYL ETHYL KETONE	7.07	72	53144	11.51	PPBV	97
37) cis-1,2-DICHLOROETHYLENE	7.45	96	120838	9.19	PPBV	100
38) DIISOPROPYL ETHER	7.51	45	363587	10.14	PPBV	100
39) ETHYL ACETATE	7.59	61	34862	10.78	PPBV #	94
40) CHLOROFORM	7.66	83	231084	9.02	PPBV	100
41) 2,4-DIMETHYLPENTANE	8.21	57	229080	8.98	PPBV	99
42) 1,1,1-TRICHLOROETHANE	8.47	97	227705	9.02	PPBV	99
43) CARBON TETRACHLORIDE	9.02	117	264029	9.44	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W20792.D M3W821.M Wed Feb 16 16:19:15 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20792.D
 Acq On : 16 Feb 2011 12:49 pm
 Sample : ICV821-10
 Misc : MS7827,V3W821,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 16 16:18:49 2011

Vial: 3
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.26	62	128969	10.32	PPBV	99
46) BENZENE	8.89	78	330706	8.53	PPBV	100
47) CYCLOHEXANE	9.06	56	219088	8.82	PPBV	98
48) 2,3-DIMETHYLPENTANE	9.24	71	83696	8.57	PPBV	96
49) TRICHLOROETHYLENE	9.82	95	146914	7.72	PPBV	99
50) 1,2-DICHLOROPROPANE	9.59	63	122714	8.61	PPBV	99
51) BROMODICHLOROMETHANE	9.81	83	234765	8.76	PPBV	100
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	555590	8.38	PPBV	100
53) 1,4-DIOXANE	9.90	88	74655	11.04	PPBV	99
54) HEPTANE	10.01	43	217607	8.06	PPBV	100
56) METHYL METHACRYLATE	10.03	69	107060	10.50	PPBV #	99
57) METHYL ISOBUTYL KETONE	10.66	58	84450	9.71	PPBV	99
58) cis-1,3-DICHLOROPROPENE	10.65	75	181963	9.93	PPBV	100
59) TOLUENE	11.57	92	222817	8.96	PPBV	100
60) trans-1,3-DICHLOROPROPENE	11.16	75	143088	10.59	PPBV	99
61) 1,1,2-TRICHLOROETHANE	11.31	83	110222	9.72	PPBV	99
63) 2-HEXANONE	11.86	58	103669	9.66	PPBV	96
64) TETRACHLOROETHYLENE	12.70	164	168237	7.91	PPBV	99
65) DIBROMOCHLOROMETHANE	12.01	129	231360	8.86	PPBV	99
66) 1,2-DIBROMOETHANE	12.22	107	182181	9.41	PPBV	99
67) OCTANE	12.48	43	266154	7.93	PPBV	99
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	162907	9.03	PPBV	98
69) CHLOROBENZENE	13.43	112	260997	8.59	PPBV	100
70) ETHYLBENZENE	13.79	91	431776	9.12	PPBV	99
71) m,p-XYLENE	13.97	106	325025	18.40	PPBV	98
72) o-XYLENE	14.48	106	155732	9.38	PPBV	100
73) STYRENE	14.39	104	213660	10.96	PPBV	100
74) NONANE	14.67	43	237279	8.58	PPBV	99
75) BROMOFORM	14.09	173	202790	8.90	PPBV	99
77) 1,1,2,2-TETRACHLOROETHANE	14.51	83	191583	10.93	PPBV	100
78) 1,2,3-TRICHLOROPROPANE	14.64	75	151362	11.13	PPBV	99
79) ISOPROPYLBENZENE	15.13	105	443784	9.79	PPBV	100
80) 2-CHLOROTOLUENE	15.70	126	103663	9.95	PPBV	99
81) n-PROPYLBENZENE	15.72	120	109223	10.27	PPBV	99
82) 4-ETHYLTOLUENE	15.89	105	367653	10.68	PPBV	100
83) 1,3,5-TRIMETHYLBENZENE	15.99	105	300278	10.29	PPBV	100
84) tert-BUTYLBENZENE	16.47	134	72623	9.98	PPBV	98
85) 1,2,4-TRIMETHYLBENZENE	16.48	105	267599	10.74	PPBV	100
86) m-DICHLOROBENZENE	16.67	146	168280	10.80	PPBV	99
87) BENZYL CHLORIDE	16.67	91	169769	10.16	PPBV	100
88) p-DICHLOROBENZENE	16.77	146	158799	10.18	PPBV	99
89) sec-BUTYLBENZENE	16.80	134	80462	10.84	PPBV	96
90) p-ISOPROPYLTOLUENE	16.99	134	80531	10.24	PPBV	98
91) o-DICHLOROBENZENE	17.19	146	141869	10.53	PPBV	100
92) n-BUTYLBENZENE	17.50	134	57968	9.98	PPBV	99
93) HEXACHLOROBUTADIENE	19.77	225	54848	10.64	PPBV	98
94) 1,2,4-TRICHLOROBENZENE	19.22	180	34749	10.84	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20792.D M3W821.M Wed Feb 16 16:19:15 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20972.D Vial: 2
 Acq On : 24 Feb 2011 7:25 am Operator: yunxiac
 Sample : CC821-10 Inst : MS3W
 Misc : MS8082,V3W828,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 24 08:00:45 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	166107	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.20	114	823784	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.37	82	387717	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.37	82	387717	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.00 95 229946 5.58 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 111.60%

Target Compounds

						Qvalue
3) FREON 152A	4.29	65	119476	8.88	PPBV	94
4) CHLORODIFLUOROMETHANE	4.32	67	45946	9.35	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.38	85	468668	9.58	PPBV	99
6) PROPYLENE	4.34	41	178116	9.65	PPBV	98
7) FREON 114	4.54	85	536348	9.50	PPBV	96
8) CHLOROMETHANE	4.49	50	226040	10.87	PPBV	91
9) VINYL CHLORIDE	4.62	62	200176	10.04	PPBV	100
10) 1,3-BUTADIENE	4.70	54	154393	9.75	PPBV	95
11) n-BUTANE	4.73	43	341593	10.62	PPBV	98
12) BROMOMETHANE	4.88	94	190230	9.45	PPBV	97
13) CHLOROETHANE	4.98	64	105570	10.97	PPBV	97
14) FREON 123	5.27	83	421395	10.14	PPBV	100
15) FREON 123A	5.31	117	235392	9.83	PPBV	87
16) TRICHLOROFLUOROMETHANE	5.46	101	464971	9.76	PPBV	99
17) ISOPROPYL ALCOHOL	5.56	45	260588	9.61	PPBV	98
18) ACETONE	5.38	58	57465	8.76	PPBV	93
19) PENTANE	5.65	42	235559	10.65	PPBV	99
21) IODOMETHANE	5.83	142	527557	9.69	PPBV	96
22) 1,1-DICHLOROETHYLENE	5.88	96	180132	9.15	PPBV	93
23) CARBON DISULFIDE	6.17	76	542880	9.31	PPBV	97
24) ETHANOL	5.11	45	58319	8.62	PPBV	98
25) BROMOETHENE	5.20	106	193298	9.76	PPBV	98
26) METHYLENE CHLORIDE	5.97	84	160808	10.38	PPBV	92
27) 3-CHLOROPROPENE	6.03	76	75309	10.72	PPBV #	81
28) FREON 113	6.11	151	314291	9.49	PPBV	95
29) TRANS-1,2-DICHLOROETHYLENE	6.59	96	190697	10.19	PPBV	94
30) TERTIARY BUTYL ALCOHOL	5.95	59	304563	9.85	PPBV	95
31) METHYL TERTIARY BUTYL ETHER	6.79	73	320083	7.89	PPBV	96
32) TETRAHYDROFURAN	8.01	72	56258	8.47	PPBV #	86
33) HEXANE	7.49	57	300112	10.09	PPBV	99
34) VINYL ACETATE	6.87	86	25871	8.53	PPBV #	66
35) 1,1-DICHLOROETHANE	6.76	63	311068	10.31	PPBV	99
36) METHYL ETHYL KETONE	7.07	72	57361	9.34	PPBV #	79
37) cis-1,2-DICHLOROETHYLENE	7.45	96	171723	9.82	PPBV	94
38) DIISOPROPYL ETHER	7.51	45	426083	8.93	PPBV	98
39) ETHYL ACETATE	7.59	61	38064	8.85	PPBV #	88
40) CHLOROFORM	7.65	83	348037	10.22	PPBV	98
41) 2,4-DIMETHYLPENTANE	8.21	57	378194	11.14	PPBV	98
42) 1,1,1-TRICHLOROETHANE	8.47	97	338240	10.08	PPBV	99
43) CARBON TETRACHLORIDE	9.02	117	398545	10.72	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W20972.D M3W821.M Thu Feb 24 10:15:12 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20972.D
 Acq On : 24 Feb 2011 7:25 am
 Sample : CC821-10
 Misc : MS8082,V3W828,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 24 08:00:45 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Wed Feb 16 16:16:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.26	62	191264	11.51	PPBV	99
46) BENZENE	8.89	78	472552	9.60	PPBV	99
47) CYCLOHEXANE	9.06	56	314270	9.95	PPBV	96
48) 2,3-DIMETHYLPENTANE	9.24	71	132855	10.70	PPBV	93
49) TRICHLOROETHYLENE	9.82	95	216476	8.96	PPBV	97
50) 1,2-DICHLOROPROPANE	9.58	63	176138	9.73	PPBV	99
51) BROMODICHLOROMETHANE	9.80	83	339258	9.97	PPBV	99
52) 2,2,4-TRIMETHYLPENTANE	9.75	57	853416	10.13	PPBV	99
53) 1,4-DIOXANE	9.91	88	76680	8.92	PPBV	92
54) HEPTANE	10.00	43	374388	10.92	PPBV	93
56) METHYL METHACRYLATE	10.03	69	112923	8.72	PPBV #	13
57) METHYL ISOBUTYL KETONE	10.66	58	106622	9.65	PPBV #	89
58) cis-1,3-DICHLOROPROPENE	10.65	75	246525	10.59	PPBV	93
59) TOLUENE	11.56	92	292165	9.24	PPBV	100
60) trans-1,3-DICHLOROPROPENE	11.15	75	194442	11.33	PPBV	94
61) 1,1,2-TRICHLOROETHANE	11.31	83	148578	10.31	PPBV	98
63) 2-HEXANONE	11.86	58	120340	8.68	PPBV	94
64) TETRACHLOROETHYLENE	12.70	164	223248	8.12	PPBV	99
65) DIBROMOCHLOROMETHANE	12.01	129	305930	9.06	PPBV	97
66) 1,2-DIBROMOETHANE	12.22	107	238861	9.54	PPBV	100
67) OCTANE	12.48	43	432457	9.97	PPBV	93
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	204636	8.77	PPBV	95
69) CHLOROBENZENE	13.42	112	333216	8.48	PPBV	97
70) ETHYLBENZENE	13.78	91	532205	8.69	PPBV	98
71) m,p-XYLENE	13.97	106	368022	16.11	PPBV	98
72) o-XYLENE	14.48	106	174158	8.11	PPBV	97
73) STYRENE	14.38	104	245487	9.73	PPBV	98
74) NONANE	14.66	43	372211	10.41	PPBV	94
75) BROMOFORM	14.08	173	248342	8.43	PPBV	99
77) 1,1,2,2-TETRACHLOROETHANE	14.50	83	220503	9.73	PPBV	99
78) 1,2,3-TRICHLOROPROPANE	14.63	75	167736	9.54	PPBV	99
79) ISOPROPYLBENZENE	15.12	105	477421	8.15	PPBV	99
80) 2-CHLOROTOLUENE	15.69	126	134798	10.01	PPBV	100
81) n-PROPYLBENZENE	15.71	120	122469	8.91	PPBV	99
82) 4-ETHYLTOLUENE	15.88	105	416114	9.35	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.98	105	345498	9.15	PPBV	97
84) tert-BUTYLBENZENE	16.46	134	80408	8.55	PPBV	95
85) 1,2,4-TRIMETHYLBENZENE	16.47	105	307794	9.56	PPBV	98
86) m-DICHLOROBENZENE	16.67	146	213043	10.57	PPBV	100
87) BENZYL CHLORIDE	16.67	91	210851	9.76	PPBV	98
88) p-DICHLOROBENZENE	16.76	146	201662	10.00	PPBV	99
89) sec-BUTYLBENZENE	16.80	134	91734	9.56	PPBV #	91
90) p-ISOPROPYLTOLUENE	16.98	134	93103	9.15	PPBV	99
91) o-DICHLOROBENZENE	17.18	146	176566	10.14	PPBV	99
92) n-BUTYLBENZENE	17.50	134	72424	9.65	PPBV #	88
93) HEXACHLOROBUTADIENE	19.77	225	71771	10.77	PPBV	100
94) 1,2,4-TRICHLOROBENZENE	19.22	180	41909	10.11	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W20972.D M3W821.M Thu Feb 24 10:15:13 2011 MS3W

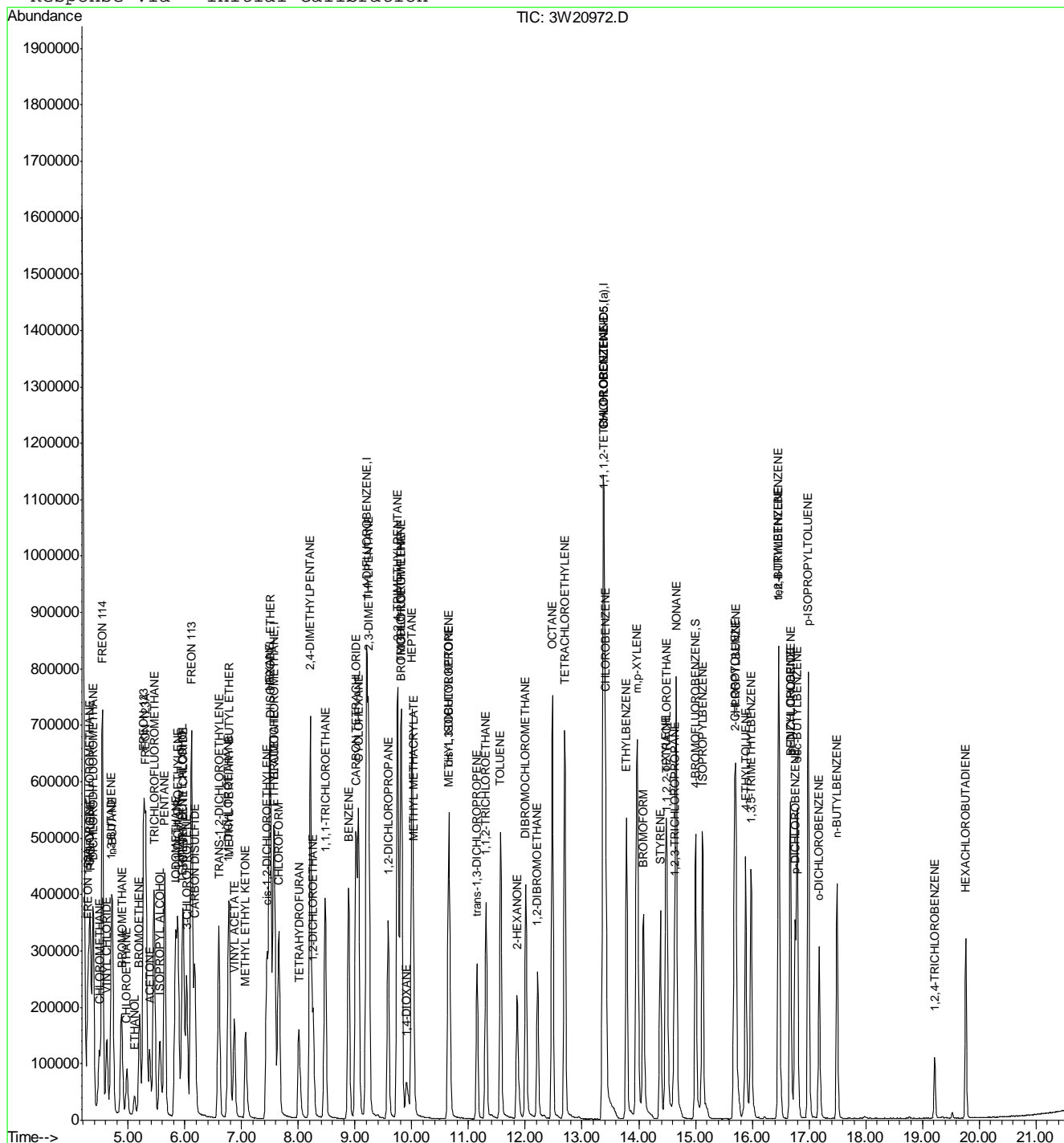
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W20972.D
Acq On : 24 Feb 2011 7:25 am
Sample : CC821-10
Misc : MS8082,V3W828,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 24 9:14 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Feb 16 16:16:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21003.D Vial: 2
 Acq On : 25 Feb 2011 6:55 am Operator: yunxiac
 Sample : CC821-10 Inst : MS3W
 Misc : MS8082,V3W829,100,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:13:07 2011 Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri Feb 25 07:11:01 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.57	128	150126	10.00	PPBV	0.00
45) 1,4-DIFLUOROBENZENE	9.21	114	723218	10.00	PPBV	0.00
62) CHLOROBENZENE-D5	13.38	82	358768	10.00	PPBV	0.00
95) CHLOROBENZENE-D5 (a)	13.38	82	358768	10.00	PPBV	0.00

System Monitoring Compounds

76) 4-BROMOFLUOROBENZENE 15.01 95 213368 5.59 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 111.80%

Target Compounds

						Qvalue
3) FREON 152A	4.29	65	121013	9.95	PPBV	94
4) CHLORODIFLUOROMETHANE	4.32	67	47355	10.67	PPBV	96
5) DICHLORODIFLUOROMETHANE	4.38	85	481178	10.89	PPBV	99
6) PROPYLENE	4.33	41	182678	10.95	PPBV	99
7) FREON 114	4.54	85	537037	10.52	PPBV	96
8) CHLOROMETHANE	4.49	50	229497	12.21	PPBV	94
9) VINYL CHLORIDE	4.62	62	201268	11.17	PPBV	100
10) 1,3-BUTADIENE	4.70	54	154095	10.77	PPBV	93
11) n-BUTANE	4.73	43	347862	11.96	PPBV	97
12) BROMOMETHANE	4.88	94	193280	10.62	PPBV	98
13) CHLOROETHANE	4.98	64	108348	12.46	PPBV	99
14) FREON 123	5.27	83	415670	11.07	PPBV	99
15) FREON 123A	5.31	117	231717	10.70	PPBV	88
16) TRICHLOROFLUOROMETHANE	5.46	101	469032	10.89	PPBV	100
17) ISOPROPYL ALCOHOL	5.58	45	282747	11.54	PPBV	98
18) ACETONE	5.38	58	61045	10.29	PPBV	91
19) PENTANE	5.65	42	240341	12.02	PPBV	98
21) IODOMETHANE	5.84	142	538736	10.95	PPBV	96
22) 1,1-DICHLOROETHYLENE	5.88	96	180579	10.15	PPBV	92
23) CARBON DISULFIDE	6.17	76	555319	10.53	PPBV	98
24) ETHANOL	5.13	45	61439	10.05	PPBV	100
25) BROMOETHENE	5.20	106	192835	10.78	PPBV	99
26) METHYLENE CHLORIDE	5.97	84	162747	11.62	PPBV	92
27) 3-CHLOROPROPENE	6.03	76	71717	11.29	PPBV #	63
28) FREON 113	6.12	151	322092	10.76	PPBV	96
29) TRANS-1,2-DICHLOROETHYLENE	6.60	96	194496	11.50	PPBV	95
30) TERTIARY BUTYL ALCOHOL	5.97	59	327120	11.70	PPBV	94
31) METHYL TERTIARY BUTYL ETHER	6.79	73	338252	9.23	PPBV	96
32) TETRAHYDROFURAN	8.02	72	58644	9.77	PPBV #	84
33) HEXANE	7.49	57	309054	11.50	PPBV	99
34) VINYL ACETATE	6.88	86	26011	9.49	PPBV #	59
35) 1,1-DICHLOROETHANE	6.77	63	301958	11.07	PPBV	99
36) METHYL ETHYL KETONE	7.08	72	60056	10.82	PPBV #	76
37) cis-1,2-DICHLOROETHYLENE	7.45	96	167809	10.62	PPBV	93
38) DIISOPROPYL ETHER	7.52	45	458668	10.64	PPBV	98
39) ETHYL ACETATE	7.60	61	40387	10.39	PPBV #	87
40) CHLOROFORM	7.66	83	344610	11.19	PPBV	98
41) 2,4-DIMETHYLPENTANE	8.22	57	386713	12.61	PPBV	98
42) 1,1,1-TRICHLOROETHANE	8.48	97	332264	10.95	PPBV	99
43) CARBON TETRACHLORIDE	9.02	117	406599	12.10	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W21003.D M3W821.M Fri Feb 25 10:07:50 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21003.D
 Acq On : 25 Feb 2011 6:55 am
 Sample : CC821-10
 Misc : MS8082,V3W829,100,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 25 08:13:07 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W821.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri Feb 25 07:11:01 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-DICHLOROETHANE	8.27	62	186335	12.41	PPBV	99
46) BENZENE	8.89	78	455355	10.53	PPBV	98
47) CYCLOHEXANE	9.06	56	323718	11.68	PPBV	96
48) 2,3-DIMETHYLPENTANE	9.25	71	134303	12.32	PPBV	91
49) TRICHLOROETHYLENE	9.82	95	215471	10.16	PPBV	97
50) 1,2-DICHLOROPROPANE	9.59	63	174515	10.98	PPBV	100
51) BROMODICHLOROMETHANE	9.81	83	333045	11.15	PPBV	100
52) 2,2,4-TRIMETHYLPENTANE	9.76	57	849099	11.48	PPBV	99
53) 1,4-DIOXANE	9.92	88	82165	10.89	PPBV	93
54) HEPTANE	10.01	43	382890	12.72	PPBV	93
56) METHYL METHACRYLATE	10.04	69	120045	10.56	PPBV #	13
57) METHYL ISOBUTYL KETONE	10.68	58	115888	11.95	PPBV #	89
58) cis-1,3-DICHLOROPROPENE	10.65	75	248539	12.16	PPBV	93
59) TOLUENE	11.57	92	293738	10.59	PPBV	99
60) trans-1,3-DICHLOROPROPENE	11.16	75	193609	12.85	PPBV	93
61) 1,1,2-TRICHLOROETHANE	11.31	83	150931	11.93	PPBV	98
63) 2-HEXANONE	11.87	58	137555	10.72	PPBV	95
64) TETRACHLOROETHYLENE	12.70	164	222480	8.74	PPBV	99
65) DIBROMOCHLOROMETHANE	12.01	129	305982	9.79	PPBV	97
66) 1,2-DIBROMOETHANE	12.23	107	241838	10.44	PPBV	98
67) OCTANE	12.48	43	438652	10.93	PPBV	92
68) 1,1,1,2-TETRACHLOROETHANE	13.40	131	199180	9.23	PPBV	94
69) CHLOROBENZENE	13.43	112	334382	9.20	PPBV	97
70) ETHYLBENZENE	13.79	91	529118	9.34	PPBV	98
71) m,p-XYLENE	13.98	106	378030	17.89	PPBV	97
72) o-XYLENE	14.48	106	179589	9.04	PPBV	98
73) STYRENE	14.39	104	249232	10.68	PPBV	98
74) NONANE	14.67	43	385300	11.65	PPBV	94
75) BROMOFORM	14.09	173	253776	9.31	PPBV	100
77) 1,1,2,2-TETRACHLOROETHANE	14.51	83	236981	11.30	PPBV	99
78) 1,2,3-TRICHLOROPROPANE	14.64	75	177491	10.91	PPBV	98
79) ISOPROPYLBENZENE	15.13	105	493692	9.11	PPBV	99
80) 2-CHLOROTOLUENE	15.70	126	124486	9.99	PPBV	100
81) n-PROPYLBENZENE	15.72	120	116450	9.15	PPBV	100
82) 4-ETHYLTOLUENE	15.89	105	404023	9.81	PPBV	98
83) 1,3,5-TRIMETHYLBENZENE	15.99	105	332640	9.52	PPBV	98
84) tert-BUTYLBENZENE	16.47	134	78118	8.97	PPBV	95
85) 1,2,4-TRIMETHYLBENZENE	16.48	105	299032	10.03	PPBV	97
86) m-DICHLOROBENZENE	16.67	146	203460	10.91	PPBV	100
87) BENZYL CHLORIDE	16.68	91	205355	10.27	PPBV	98
88) p-DICHLOROBENZENE	16.77	146	187761	10.06	PPBV	100
89) sec-BUTYLBENZENE	16.80	134	88106	9.92	PPBV #	92
90) p-ISOPROPYLTOLUENE	16.99	134	90439	9.61	PPBV	100
91) o-DICHLOROBENZENE	17.19	146	167671	10.40	PPBV	99
92) n-BUTYLBENZENE	17.50	134	71393	10.28	PPBV #	90
93) HEXACHLOROBUTADIENE	19.77	225	75459	12.24	PPBV	99
94) 1,2,4-TRICHLOROBENZENE	19.22	180	42805	11.16	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W21003.D M3W821.M Fri Feb 25 10:07:50 2011 MS3W

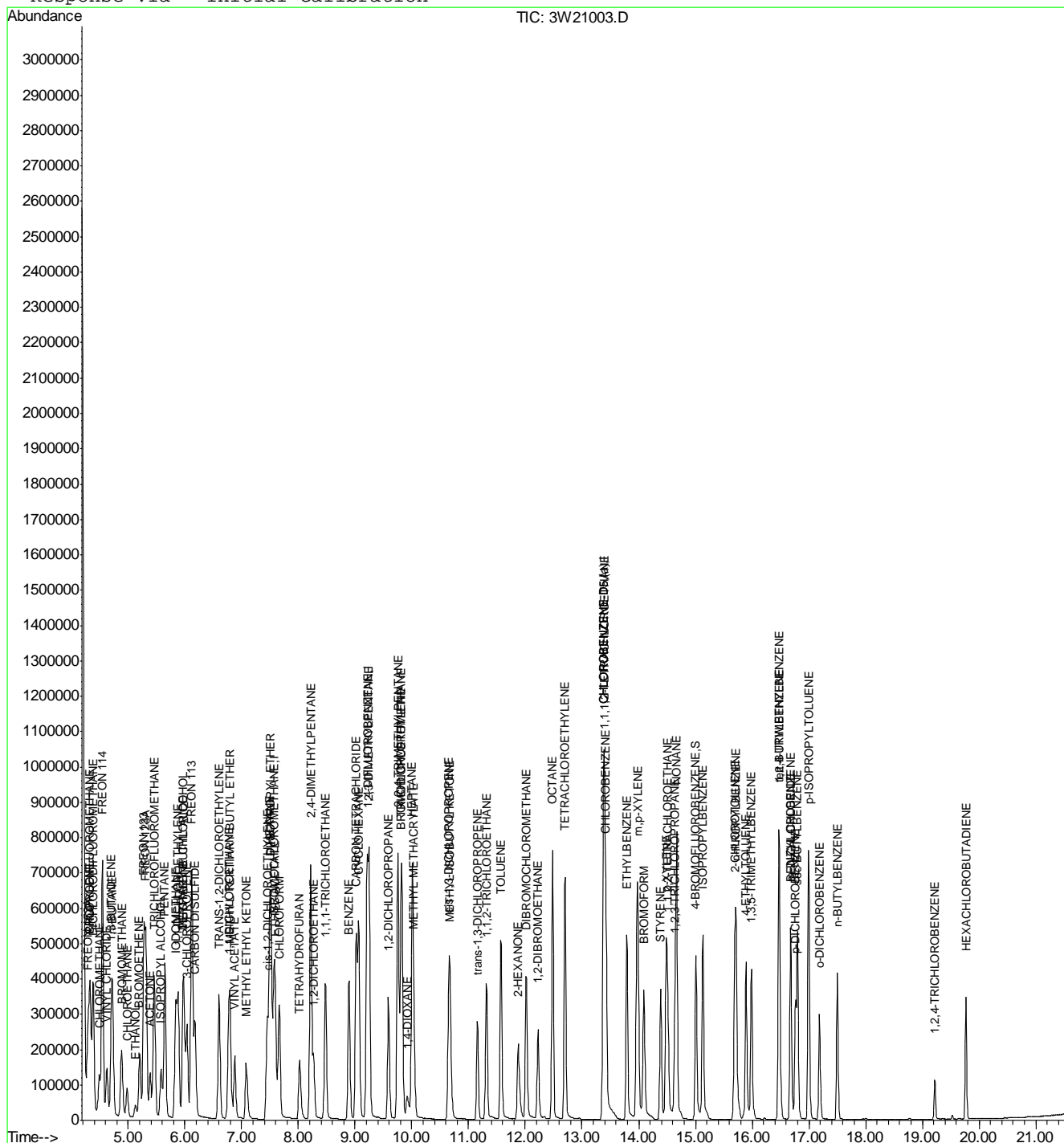
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W21003.D
Acq On : 25 Feb 2011 6:55 am
Sample : CC821-10
Misc : MS8082,V3W829,100,,,1
MS Integration Params: rteint.p
Quant Time: Feb 25 9:59 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W821.RES

Method : C:\MSDCHEM\1\METHODS\M3W821.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri Feb 25 07:11:01 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29766.D
 Acq On : 19 Jan 2011 5:47 pm
 Sample : ICC1222-10
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:31 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.82	128	86606	10.00	PPBV	0.00
46) 1,4-DIFLUOROBENZENE	10.50	114	448526	10.00	PPBV	0.00
63) CHLOROBENZENE-D5	14.73	82	248549	10.00	PPBV	0.00
96) Chlorobenzene-d5(a)	14.73	82	247821	10.00	PPBV	0.00

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE 16.37 95 149861 5.00 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 100.00%

Target Compounds

Qvalue

3) FREON 152A	4.94	65	45832	10.00	PPBV	100
4) CHLORODIFLUOROMETHANE	4.98	67	42660	10.00	PPBV	100
5) DICHLORODIFLUOROMETHANE	5.07	85	381070	10.37	PPBV	99
6) PROPYLENE	5.01	41	50619	10.00	PPBV	100
7) FREON 114	5.29	85	326171	10.00	PPBV	100
8) CHLOROMETHANE	5.22	52	19099	10.00	PPBV	100
9) VINYL CHLORIDE	5.40	62	81090	10.20	PPBV	99
10) 1,3-BUTADIENE	5.51	54	61423	10.00	PPBV	100
11) n-BUTANE	5.55	43	110690	10.00	PPBV	100
12) BROMOMETHANE	5.73	94	90977	10.00	PPBV	100
13) CHLOROETHANE	5.86	64	45150	10.00	PPBV	100
14) ACROLEIN	6.22	56	28327	10.00	PPBV	100
15) FREON 123	6.23	83	231290	10.00	PPBV	# 100
16) FREON 123A	6.27	117	175403	10.00	PPBV	100
17) TRICHLOROFLUOROMETHANE	6.46	101	418783	10.00	PPBV	100
18) ISOPROPYL ALCOHOL	6.52	45	150456	10.00	PPBV	100
19) ACETONE	6.33	58	34992	10.00	PPBV	100
20) PENTANE	6.72	57	21981	10.01	PPBV	100
21) TVHC as EQUIV PENTANE	6.72	TIC	409540m	10.00	PPBV	
22) IODOMETHANE	6.92	142	279747	10.00	PPBV	100
23) 1,1-DICHLOROETHYLENE	6.96	96	95072	10.00	PPBV	100
24) CARBON DISULFIDE	7.33	76	258096	10.00	PPBV	100
25) ETHANOL	5.97	45	25604	10.00	PPBV	100
26) BROMOETHENE	6.14	106	100528	10.00	PPBV	100
27) METHYLENE CHLORIDE	7.05	84	79878	10.00	PPBV	97
28) 3-CHLOROPROPENE	7.14	76	44426	10.00	PPBV	100
29) FREON 113	7.24	151	217695	10.00	PPBV	100
30) TRANS-1,2-DICHLOROETHYLENE	7.80	96	110827	10.00	PPBV	100
31) TERTIARY BUTYL ALCOHOL	6.99	59	280011	10.00	PPBV	100
32) METHYL TERTIARY BUTYL ETHER	8.00	73	389928	10.00	PPBV	100
33) TETRAHYDROFURAN	9.28	72	49645	10.00	PPBV	100
34) HEXANE	8.82	57	144721	10.00	PPBV	100
35) VINYL ACETATE	8.06	86	28363	10.00	PPBV	99
36) 1,1-DICHLOROETHANE	7.97	63	190724	10.00	PPBV	100
37) METHYL ETHYL KETONE	8.29	72	49010	10.00	PPBV	100
38) cis-1,2-DICHLOROETHYLENE	8.66	96	114849	10.00	PPBV	100
39) DI-ISOPROPYL ETHER	8.80	45	318844	10.00	PPBV	100
40) ETHYL ACETATE	8.83	61	27467	10.00	PPBV	100
41) CHLOROFORM	8.92	83	288021	10.00	PPBV	100
42) 2,4-DIMETHYLPENTANE	9.58	57	181270	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

W29766.D MW1222.M Mon Jan 24 09:29:11 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29766.D
 Acq On : 19 Jan 2011 5:47 pm
 Sample : ICC1222-10
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:31 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,1,1-TRICHLOROETHANE	9.79	97	370714	10.00	PPBV	100
44) CARBON TETRACHLORIDE	10.34	117	412987	10.00	PPBV	100
45) 1,2-DICHLOROETHANE	9.57	62	222529	9.99	PPBV	100
47) BENZENE	10.21	78	331405	10.00	PPBV	100
48) CYCLOHEXANE	10.45	84	158279	10.00	PPBV	100
49) 2,3-DIMETHYLPENTANE	10.64	71	75042	10.00	PPBV	100
50) TRICHLOROETHYLENE	11.16	95	171574	10.00	PPBV	100
51) 1,2-DICHLOROPROPANE	10.95	63	100020	10.00	PPBV	100
52) BROMODICHLOROMETHANE	11.13	83	328560	10.00	PPBV	100
53) 2,2,4-TRIMETHYLPENTANE	11.17	57	496451	10.00	PPBV	100
54) 1,4-DIOXANE	11.19	88	77380	9.96	PPBV	100
55) METHYL METHACRYLATE	11.33	69	113148	10.00	PPBV	100
56) HEPTANE	11.41	43	161964	10.00	PPBV	100
57) TVHC as EQUIV HEPTANE	11.41	TIC	913329m	10.00	PPBV	100
58) METHYL ISOBUTYL KETONE	12.00	43	225171	10.00	PPBV	100
59) cis-1,3-DICHLOROPROPENE	11.97	75	206259	10.00	PPBV	100
60) TOLUENE	12.93	92	257982	10.00	PPBV	100
61) trans-1,3-DICHLOROPROPENE	12.47	75	196523	10.00	PPBV	100
62) 1,1,2-TRICHLOROETHANE	12.66	83	107326	10.00	PPBV	100
64) 2-HEXANONE	13.19	43	211205	10.00	PPBV	100
65) TETRACHLOROETHYLENE	14.07	164	192324	10.00	PPBV	100
66) DIBROMOCHLOROMETHANE	13.37	129	310376	10.00	PPBV	100
67) 1,2-DIBROMOETHANE	13.61	107	207992	10.00	PPBV	100
68) OCTANE	13.88	43	222193	10.00	PPBV	100
69) 1,1,1,2-TETRACHLOROETHANE	14.76	131	229404	10.00	PPBV #	100
70) CHLOROBENZENE	14.78	112	339051	10.00	PPBV	100
71) ETHYLBENZENE	15.17	91	586431	10.00	PPBV	100
72) m,p-XYLENE	15.36	106	437270	20.00	PPBV	100
73) o-XYLENE	15.87	106	212912	10.00	PPBV	100
74) STYRENE	15.75	104	310649	10.00	PPBV	100
75) 1,2,3-TRICHLOROPROPANE	16.01	75	205531	10.00	PPBV	100
76) NONANE	16.07	43	210369	10.00	PPBV	100
77) BROMOFORM	15.47	173	277647	10.00	PPBV	100
79) 1,1,2,2-TETRACHLOROETHANE	15.87	83	223618	10.00	PPBV	100
80) ISOPROPYLBENZENE	16.51	105	689708	10.00	PPBV	100
81) 2-CHLOROTOLUENE	17.04	126	141438	10.00	PPBV #	100
82) n-PROPYLBENZENE	17.07	120	167396	10.00	PPBV	100
83) 4-ETHYLTOLUENE	17.23	105	598634	10.09	PPBV	100
84) 1,3,5-TRIMETHYLBENZENE	17.32	105	497281	10.00	PPBV	100
85) TERT-BUTYLBENZENE	17.77	134	126280	10.00	PPBV	100
86) 1,2,4-TRIMETHYLBENZENE	17.78	105	474369	10.00	PPBV	100
87) m-DICHLOROBENZENE	17.96	146	277952	10.00	PPBV	100
88) BENZYL CHLORIDE	17.94	91	346063	10.00	PPBV	100
89) p-DICHLOROBENZENE	18.03	146	260827	10.00	PPBV	100
90) SEC-BUTYLBENZENE	18.08	134	144762	10.00	PPBV	100
91) p-ISOPROPYLTOLUENE	18.26	134	142686	10.00	PPBV	100
92) o-DICHLOROBENZENE	18.42	146	239782	10.00	PPBV	100
93) n-BUTYLBENZENE	18.73	134	106719	10.00	PPBV	100
94) HEXACHLOROBUTADIENE	20.87	225	75536	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

W29766.D MW1222.M Mon Jan 24 09:29:11 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29766.D Vial: 2
Acq On : 19 Jan 2011 5:47 pm Operator: YOUMINH
Sample : ICC1222-10 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 09:05:31 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,2,4-TRICHLOROBENZENE	20.36	180	35931	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W29766.D MW1222.M Mon Jan 24 09:29:11 2011 MSW

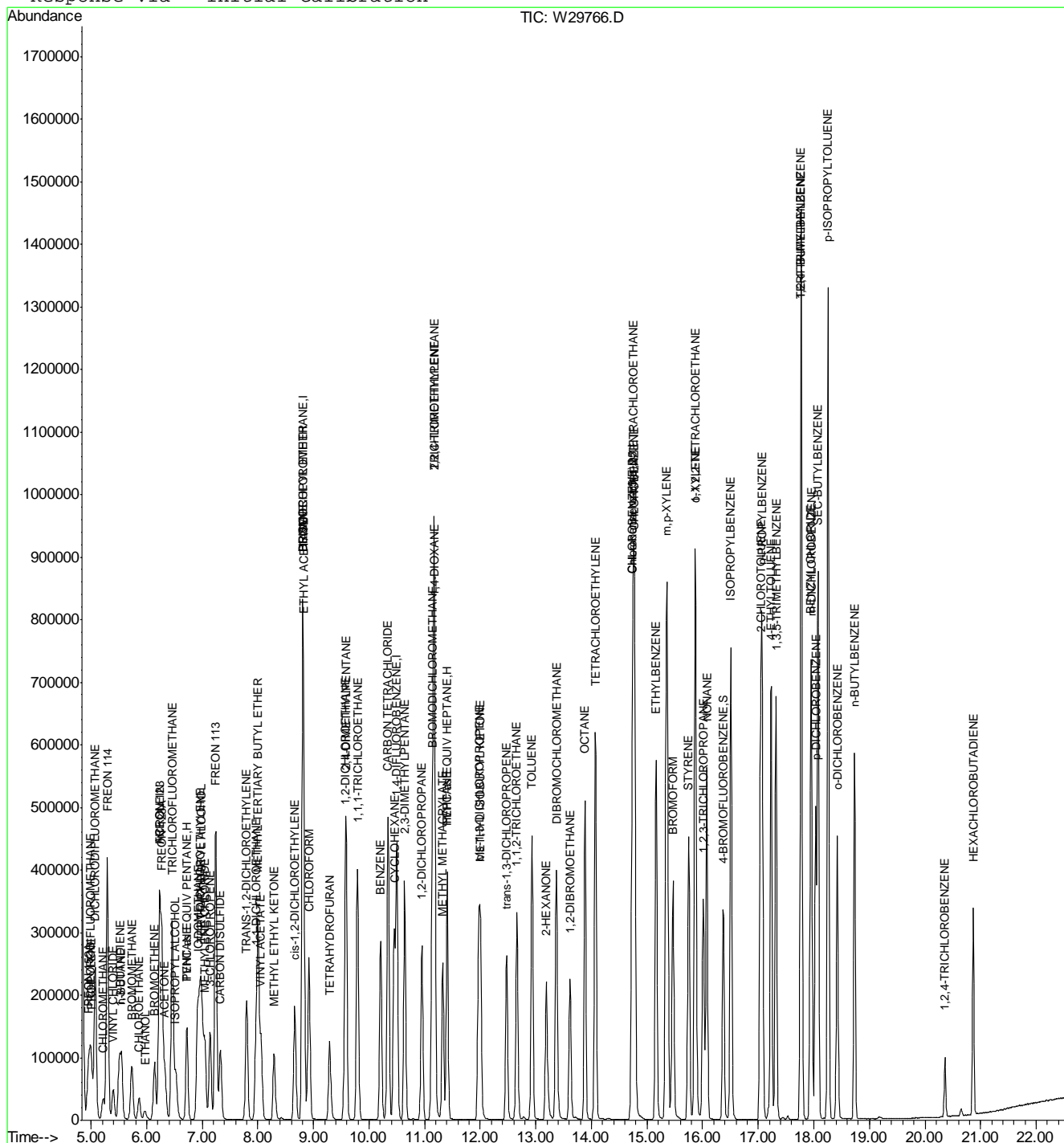
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29766.D
Acq On : 19 Jan 2011 5:47 pm
Sample : IC1222-10
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:06 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Initial Calibration



6.7.34

9

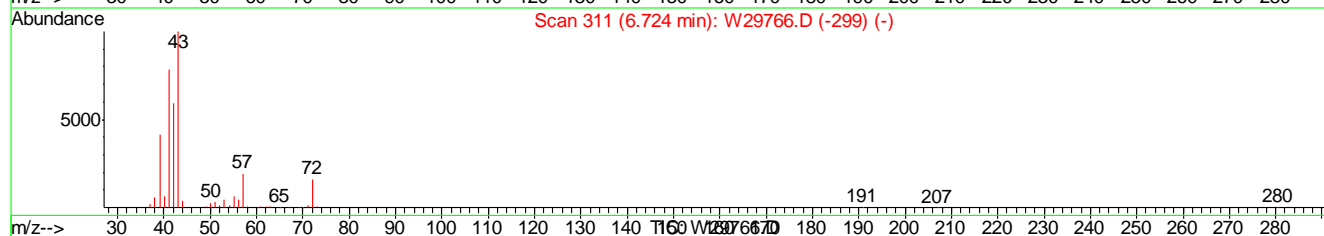
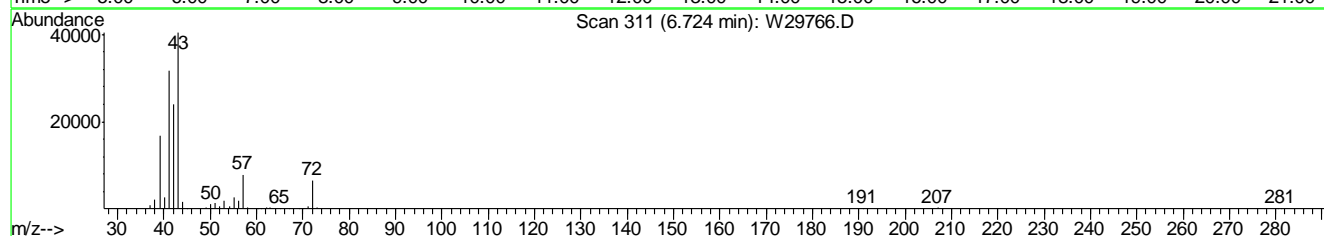
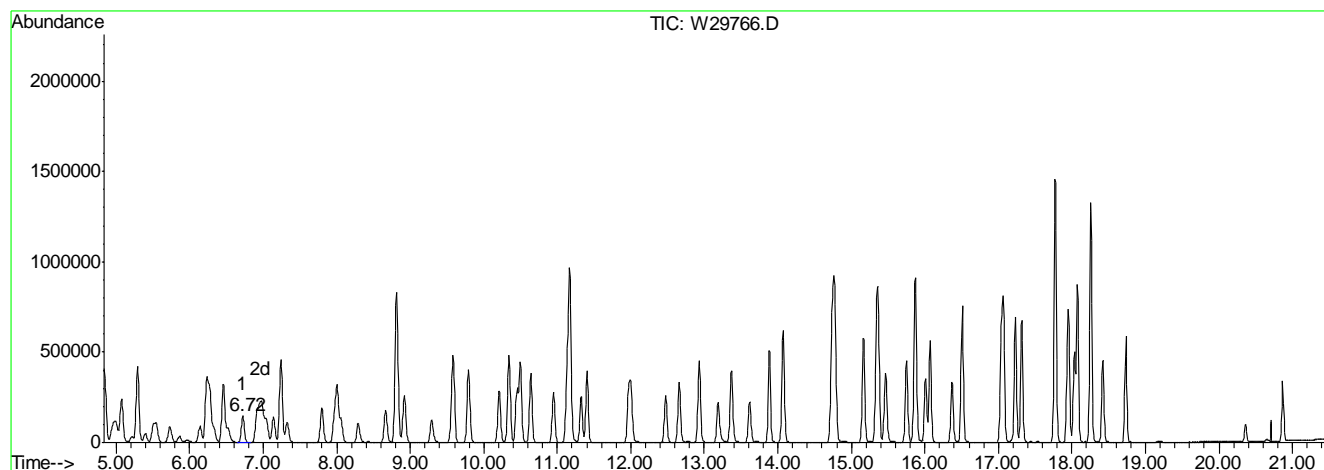
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29766.D
Acq On : 19 Jan 2011 5:47 pm
Sample : ICC1222-10
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:06 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.72min 10.00PPBV m

response 409540

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

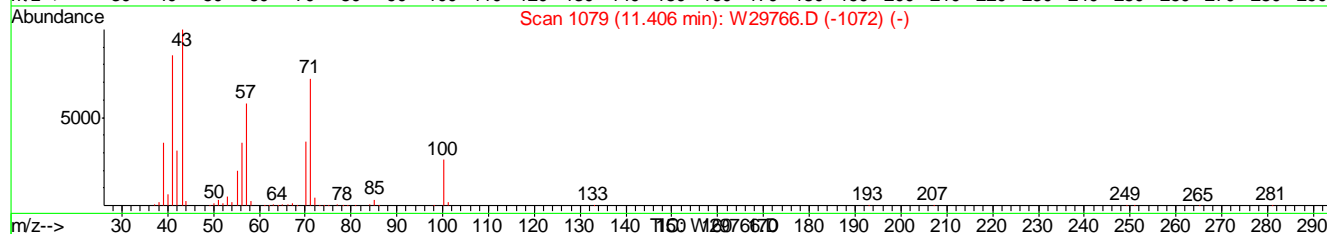
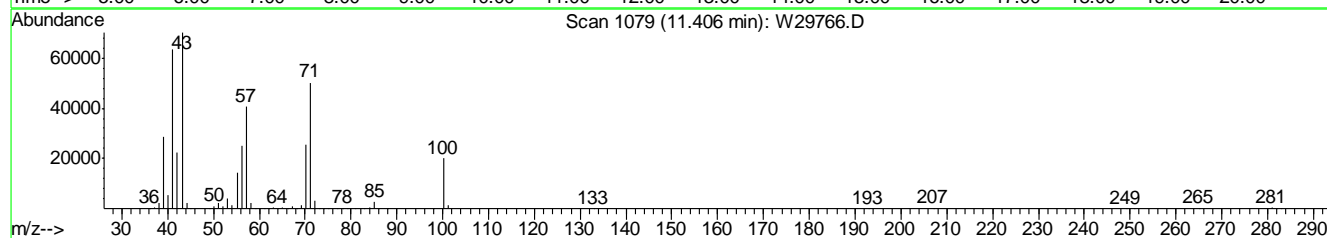
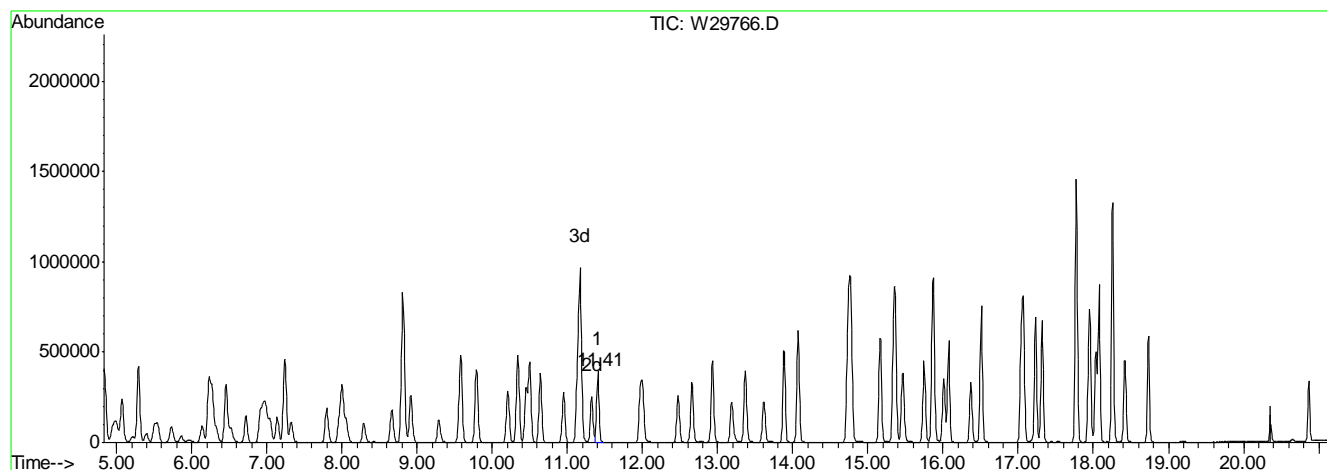
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29766.D
Acq On : 19 Jan 2011 5:47 pm
Sample : ICC1222-10
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:06 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.41min 10.00PPBV m

response 913329

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29770.D
 Acq On : 19 Jan 2011 9:46 pm
 Sample : IC1222-20
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:04 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.85	128	79833	10.00	PPBV	0.04
46) 1,4-DIFLUOROBENZENE	10.53	114	396802	10.00	PPBV	0.03
63) CHLOROBENZENE-D5	14.75	82	244631	10.00	PPBV	0.02
96) Chlorobenzene-d5(a)	14.75	82	243709	10.00	PPBV	0.02

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE	16.39	95	139520	4.73	PPBV	0.02
Spiked Amount	5.000	Range	65 - 128	Recovery	=	94.60%

Target Compounds

Qvalue

3) FREON 152A	5.01	65	81588	19.31	PPBV	99
4) CHLORODIFLUOROMETHANE	5.04	67	77580	19.73	PPBV	100
5) DICHLORODIFLUOROMETHANE	5.13	85	659942	19.48	PPBV	99
6) PROPYLENE	5.07	41	89246	19.13	PPBV	96
7) FREON 114	5.35	85	582225	19.36	PPBV	100
8) CHLOROMETHANE	5.27	52	34648	19.68	PPBV #	54
9) VINYL CHLORIDE	5.46	62	141782	19.35	PPBV	100
10) 1,3-BUTADIENE	5.57	54	114600	20.24	PPBV	98
11) n-BUTANE	5.60	43	200719	19.67	PPBV #	99
12) BROMOMETHANE	5.79	94	162975	19.43	PPBV	99
13) CHLOROETHANE	5.91	64	80570	19.36	PPBV	100
14) ACROLEIN	6.29	56	51729	19.81	PPBV	98
15) FREON 123	6.29	83	429219	20.13	PPBV #	99
16) FREON 123A	6.33	117	323558	20.01	PPBV	100
17) TRICHLOROFLUOROMETHANE	6.51	101	761028	19.71	PPBV	100
18) ISOPROPYL ALCOHOL	6.60	45	278348	20.07	PPBV	98
19) ACETONE	6.38	58	63793	19.78	PPBV	96
20) PENTANE	6.77	57	39851	19.69	PPBV	98
21) TVHC as EQUIV PENTANE	6.77	TIC	755086m	20.01	PPBV	
22) IODOMETHANE	6.97	142	522392	20.26	PPBV	100
23) 1,1-DICHLOROETHYLENE	7.00	96	178136	20.33	PPBV	100
24) CARBON DISULFIDE	7.37	76	478424	20.11	PPBV	99
25) ETHANOL	6.03	45	47152	19.98	PPBV	97
26) BROMOETHENE	6.19	106	180718	19.51	PPBV	98
27) METHYLENE CHLORIDE	7.10	84	149336	20.29	PPBV	100
28) 3-CHLOROPROPENE	7.19	76	80789	19.73	PPBV	96
29) FREON 113	7.29	151	407330	20.30	PPBV	100
30) TRANS-1,2-DICHLOROETHYLENE	7.84	96	202480	19.82	PPBV	99
31) TERTIARY BUTYL ALCOHOL	7.07	59	492687	19.09	PPBV	99
32) METHYL TERTIARY BUTYL ETHER	8.05	73	712724	19.83	PPBV	99
33) TETRAHYDROFURAN	9.33	72	89917	19.65	PPBV	98
34) HEXANE	8.85	57	267461	20.05	PPBV	99
35) VINYL ACETATE	8.10	86	52206	19.97	PPBV #	40
36) 1,1-DICHLOROETHANE	8.02	63	345287	19.64	PPBV	100
37) METHYL ETHYL KETONE	8.34	72	89957	19.91	PPBV	99
38) cis-1,2-DICHLOROETHYLENE	8.71	96	210300	19.86	PPBV	99
39) DI-ISOPROPYL ETHER	8.85	45	593399	20.19	PPBV	99
40) ETHYL ACETATE	8.87	61	51277	20.25	PPBV	99
41) CHLOROFORM	8.96	83	521758	19.65	PPBV	99
42) 2,4-DIMETHYLPENTANE	9.62	57	334763	20.03	PPBV	100

(#) = qualifier out of range (m) = manual integration

W29770.D MW1222.M Mon Jan 24 09:29:12 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29770.D
 Acq On : 19 Jan 2011 9:46 pm
 Sample : IC1222-20
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:04 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,1,1-TRICHLOROETHANE	9.83	97	677086	19.81	PPBV	100
44) CARBON TETRACHLORIDE	10.37	117	763174	20.05	PPBV	100
45) 1,2-DICHLOROETHANE	9.60	62	407058	19.83	PPBV	100
47) BENZENE	10.24	78	598632	20.42	PPBV	99
48) CYCLOHEXANE	10.48	84	286899	20.49	PPBV	97
49) 2,3-DIMETHYLPENTANE	10.67	71	138056	20.80	PPBV	100
50) TRICHLOROETHYLENE	11.19	95	323109	21.29	PPBV	99
51) 1,2-DICHLOROPROPANE	10.98	63	181687	20.53	PPBV	100
52) BROMODICHLOROMETHANE	11.16	83	613055	21.09	PPBV	100
53) 2,2,4-TRIMETHYLPENTANE	11.20	57	923248	21.02	PPBV	100
54) 1,4-DIOXANE	11.22	88	145410	21.16	PPBV #	86
55) METHYL METHACRYLATE	11.36	69	212387	21.22	PPBV	99
56) HEPTANE	11.43	43	298570	20.84	PPBV	100
57) TVHC as EQUIV HEPTANE	11.43	TIC	1675205m	20.74	PPBV	
58) METHYL ISOBUTYL KETONE	12.04	43	422294	21.20	PPBV	100
59) cis-1,3-DICHLOROPROPENE	12.00	75	375411	20.57	PPBV	98
60) TOLUENE	12.95	92	472946	20.72	PPBV	99
61) trans-1,3-DICHLOROPROPENE	12.50	75	366661	21.09	PPBV	100
62) 1,1,2-TRICHLOROETHANE	12.69	83	199247	20.98	PPBV	99
64) 2-HEXANONE	13.22	43	401103	19.30	PPBV	99
65) TETRACHLOROETHYLENE	14.09	164	362238	19.14	PPBV	100
66) DIBROMOCHLOROMETHANE	13.39	129	579035	18.95	PPBV	100
67) 1,2-DIBROMOETHANE	13.64	107	390838	19.09	PPBV	100
68) OCTANE	13.90	43	411214	18.80	PPBV	99
69) 1,1,1,2-TETRACHLOROETHANE	14.78	131	433339	19.19	PPBV #	99
70) CHLOROBENZENE	14.80	112	637754	19.11	PPBV	99
71) ETHYLBENZENE	15.18	91	1101164	19.08	PPBV	99
72) m,p-XYLENE	15.38	106	839211	39.00	PPBV	98
73) o-XYLENE	15.89	106	403001	19.23	PPBV	99
74) STYRENE	15.77	104	588971	19.26	PPBV	99
75) 1,2,3-TRICHLOROPROPANE	16.03	75	387189	19.14	PPBV	100
76) NONANE	16.09	43	397575	19.20	PPBV	99
77) BROMOFORM	15.49	173	520741	19.05	PPBV	100
79) 1,1,2,2-TETRACHLOROETHANE	15.89	83	426070	19.36	PPBV	100
80) ISOPROPYLBENZENE	16.52	105	1299451	19.14	PPBV	100
81) 2-CHLOROTOLUENE	17.06	126	270109	19.40	PPBV #	99
82) n-PROPYLBENZENE	17.09	120	325597	19.76	PPBV	94
83) 4-ETHYLTOLUENE	17.25	105	1121863	19.22	PPBV	100
84) 1,3,5-TRIMETHYLBENZENE	17.33	105	946475	19.34	PPBV	100
85) TERT-BUTYLBENZENE	17.78	134	245961	19.79	PPBV	99
86) 1,2,4-TRIMETHYLBENZENE	17.79	105	927808	19.87	PPBV	99
87) m-DICHLOROBENZENE	17.97	146	536569	19.61	PPBV	100
88) BENZYL CHLORIDE	17.95	91	688364	20.21	PPBV	99
89) p-DICHLOROBENZENE	18.05	146	503336	19.61	PPBV	100
90) SEC-BUTYLBENZENE	18.09	134	282423	19.82	PPBV	98
91) p-ISOPROPYLTOLUENE	18.26	134	279843	19.93	PPBV	99
92) o-DICHLOROBENZENE	18.44	146	462049	19.58	PPBV	99
93) n-BUTYLBENZENE	18.74	134	208382	19.84	PPBV	100
94) HEXACHLOROBUTADIENE	20.87	225	126112	16.96	PPBV	100

(#) = qualifier out of range (m) = manual integration

W29770.D MW1222.M

Mon Jan 24 09:29:12 2011

MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29770.D Vial: 2
Acq On : 19 Jan 2011 9:46 pm Operator: YOUMINH
Sample : IC1222-20 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 09:05:04 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,2,4-TRICHLOROBENZENE	20.37	180	69376	19.62	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W29770.D MW1222.M Mon Jan 24 09:29:13 2011 MSW

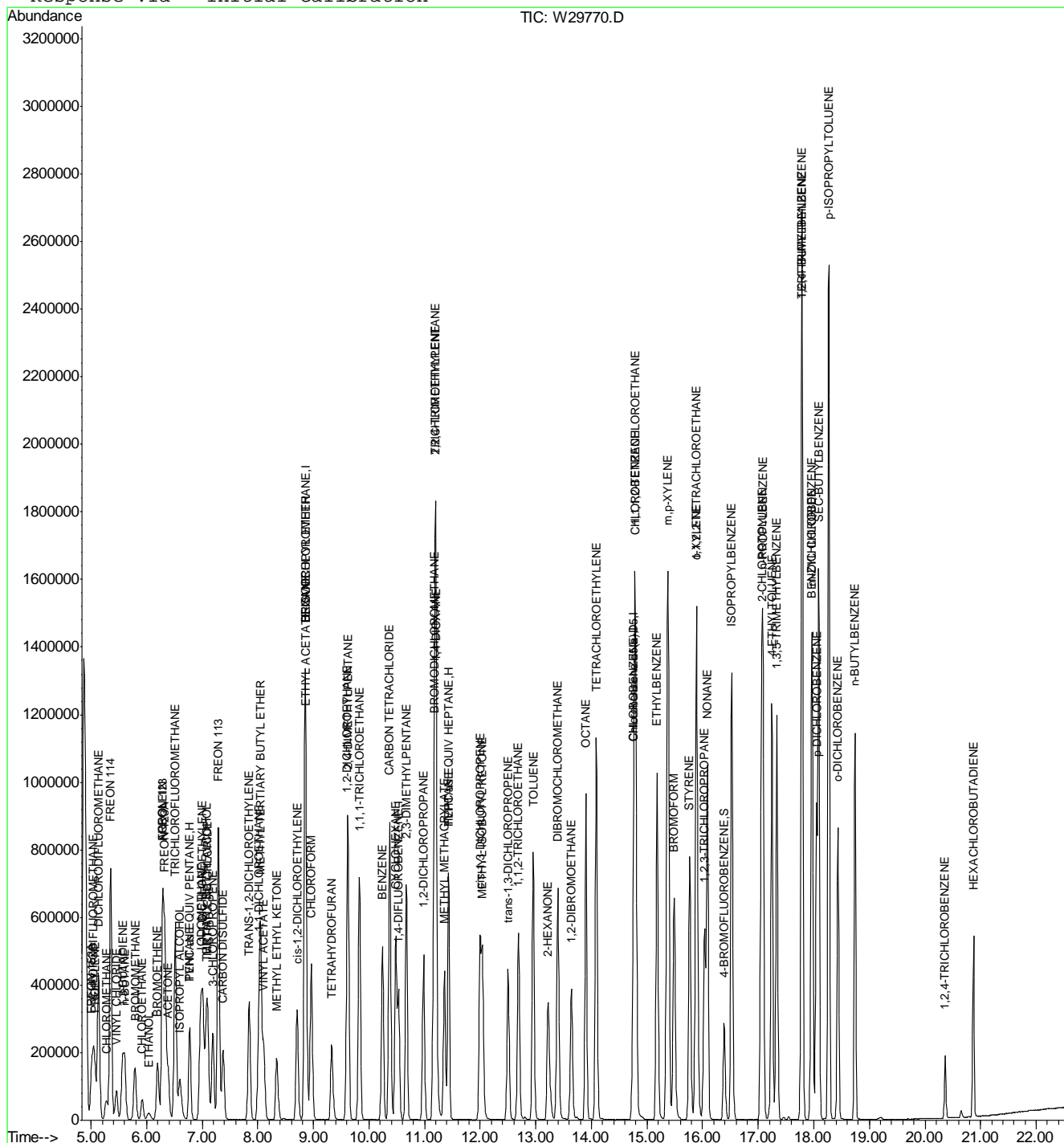
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29770.D
Acq On : 19 Jan 2011 9:46 pm
Sample : IC1222-20
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:07 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Initial Calibration



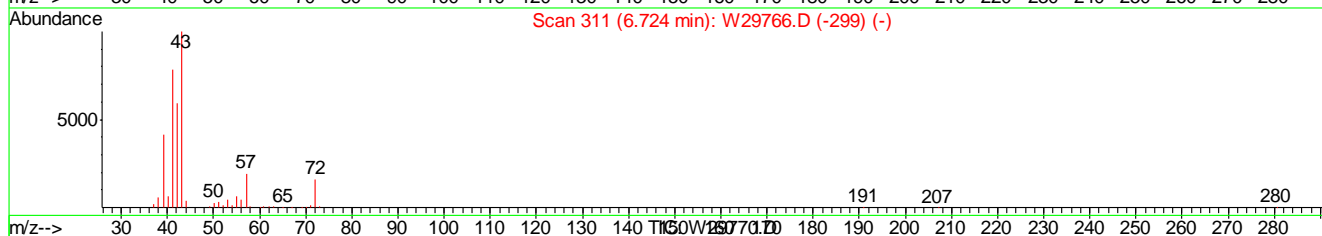
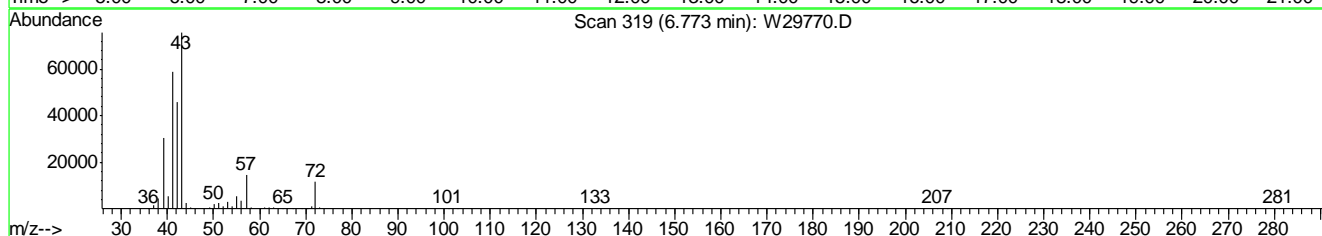
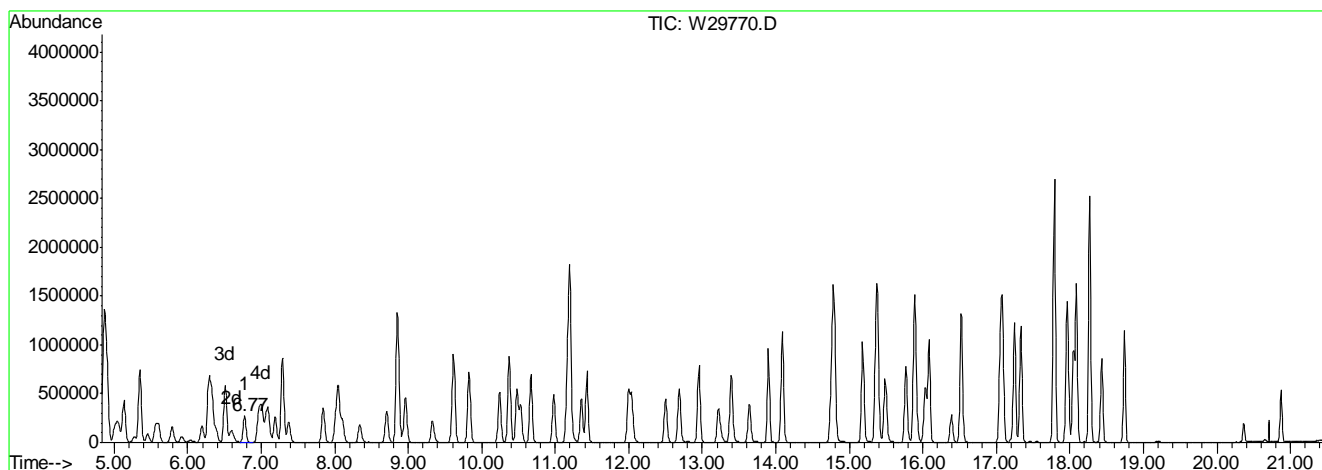
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29770.D
Acq On : 19 Jan 2011 9:46 pm
Sample : IC1222-20
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:07 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.77min 20.01PPBV m

response 755086

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	0.00	0.00#
------	------	-------

0.00	0.00	0.00#
------	------	-------

0.00	0.00	0.00
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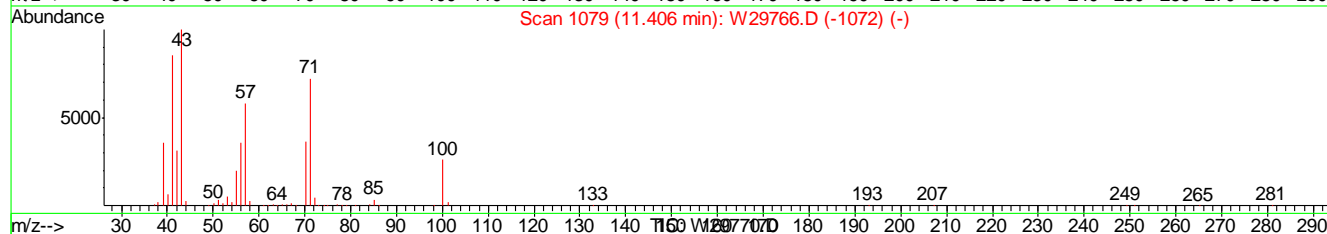
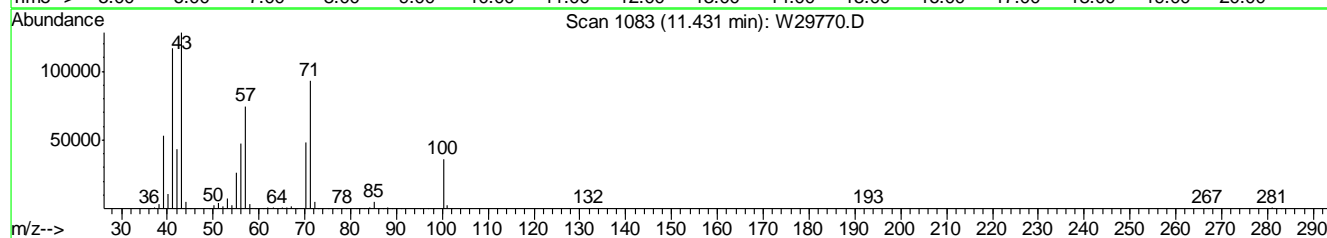
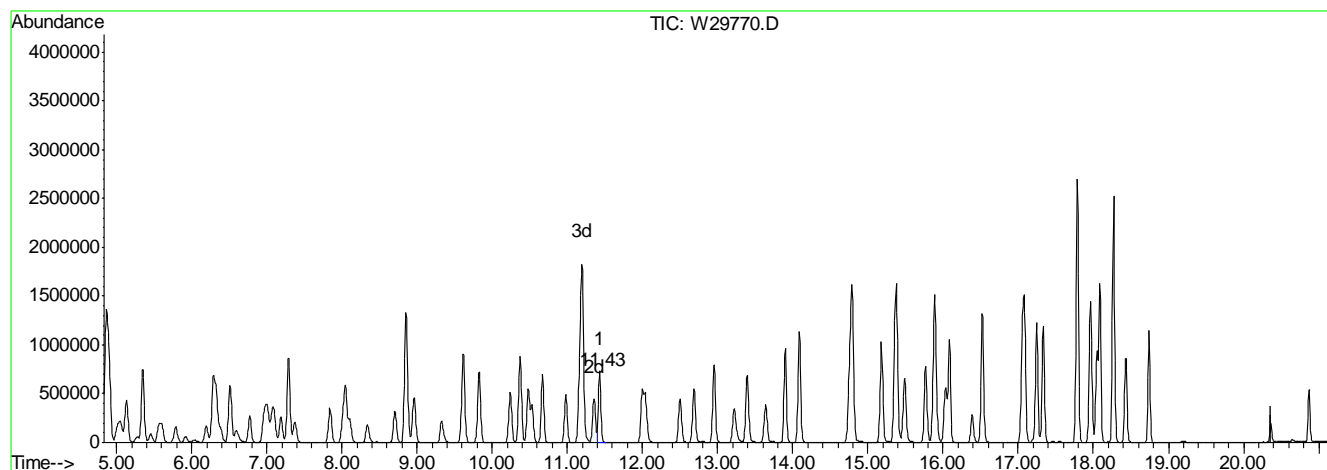
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29770.D
 Acq On : 19 Jan 2011 9:46 pm
 Sample : IC1222-20
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:07 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.43min 20.74PPBV m

response 1675205

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00#
0.00	0.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29771.D
 Acq On : 19 Jan 2011 10:26 pm
 Sample : IC1222-5
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:05 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	81658	10.00	PPBV	-0.06
46) 1,4-DIFLUOROBENZENE	10.46	114	404336	10.00	PPBV	-0.04
63) CHLOROBENZENE-D5	14.72	82	210213	10.00	PPBV	-0.02
96) Chlorobenzene-d5(a)	14.72	82	209797	10.00	PPBV	-0.02

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE 16.36 95 131621 5.19 PPBV -0.01
 Spiked Amount 5.000 Range 65 - 128 Recovery = 103.80%

Target Compounds

Qvalue

3) FREON 152A	4.86	65	13450	3.11	PPBV	99
4) CHLORODIFLUOROMETHANE	4.89	67	17860	4.44	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.99	85	167681	4.84	PPBV	99
6) PROPYLENE	4.92	41	22087	4.63	PPBV	90
7) FREON 114	5.20	85	157180	5.11	PPBV	99
8) CHLOROMETHANE	5.12	52	9658	5.36	PPBV #	70
9) VINYL CHLORIDE	5.31	62	41294	5.51	PPBV	99
10) 1,3-BUTADIENE	5.42	54	31573	5.45	PPBV	95
11) n-BUTANE	5.46	43	57253	5.49	PPBV #	99
12) BROMOMETHANE	5.65	94	46411	5.41	PPBV	98
13) CHLOROETHANE	5.77	64	23961	5.63	PPBV	97
14) ACROLEIN	6.15	56	13525	5.06	PPBV	96
15) FREON 123	6.15	83	110858	5.08	PPBV #	99
16) FREON 123A	6.19	117	83768	5.07	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.38	101	190393	4.82	PPBV	99
18) ISOPROPYL ALCOHOL	6.44	45	69914	4.93	PPBV	96
19) ACETONE	6.25	58	17301	5.24	PPBV	93
20) PENTANE	6.65	57	10523	5.08	PPBV	96
21) TVHC as EQUIV PENTANE	6.65	TIC	191628m	4.96	PPBV	
22) IODOMETHANE	6.83	142	124707	4.73	PPBV	98
23) 1,1-DICHLOROETHYLENE	6.88	96	42567	4.75	PPBV	97
24) CARBON DISULFIDE	7.25	76	115358	4.74	PPBV	100
25) ETHANOL	5.88	45	13808	5.72	PPBV	95
26) BROMOETHENE	6.05	106	48338	5.10	PPBV	99
27) METHYLENE CHLORIDE	6.97	84	37158	4.94	PPBV	98
28) 3-CHLOROPROPENE	7.07	76	19674	4.70	PPBV	99
29) FREON 113	7.17	151	96095	4.68	PPBV	99
30) TRANS-1,2-DICHLOROETHYLENE	7.73	96	48710	4.66	PPBV	100
31) TERTIARY BUTYL ALCOHOL	6.91	59	119572	4.53	PPBV	99
32) METHYL TERTIARY BUTYL ETHER	7.94	73	163192	4.44	PPBV	100
33) TETRAHYDROFURAN	9.24	72	21299	4.55	PPBV	98
34) HEXANE	8.76	57	62036	4.55	PPBV	99
35) VINYL ACETATE	7.99	86	12190	4.56	PPBV #	94
36) 1,1-DICHLOROETHANE	7.90	63	83270	4.63	PPBV	100
37) METHYL ETHYL KETONE	8.23	72	20287	4.39	PPBV	97
38) cis-1,2-DICHLOROETHYLENE	8.61	96	50020	4.62	PPBV	100
39) DI-ISOPROPYL ETHER	8.75	45	133436	4.44	PPBV	100
40) ETHYL ACETATE	8.77	61	12068	4.66	PPBV #	88
41) CHLOROFORM	8.86	83	123766	4.56	PPBV	100
42) 2,4-DIMETHYLPENTANE	9.53	57	76975	4.50	PPBV	98

(#) = qualifier out of range (m) = manual integration

W29771.D MW1222.M Mon Jan 24 09:29:14 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29771.D
 Acq On : 19 Jan 2011 10:26 pm
 Sample : IC1222-5
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:05 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,1,1-TRICHLOROETHANE	9.74	97	158190	4.53	PPBV	100
44) CARBON TETRACHLORIDE	10.30	117	176073	4.52	PPBV	100
45) 1,2-DICHLOROETHANE	9.52	62	92680	4.41	PPBV	98
47) BENZENE	10.16	78	142540	4.77	PPBV	100
48) CYCLOHEXANE	10.41	84	68404	4.79	PPBV	90
49) 2,3-DIMETHYLPENTANE	10.60	71	32746	4.84	PPBV	97
50) TRICHLOROETHYLENE	11.13	95	70628	4.57	PPBV	100
51) 1,2-DICHLOROPROPANE	10.91	63	43279	4.80	PPBV	99
52) BROMODICHLOROMETHANE	11.10	83	137044	4.63	PPBV	100
53) 2,2,4-TRIMETHYLPENTANE	11.14	57	211020	4.72	PPBV	100
54) 1,4-DIOXANE	11.15	88	31585	4.51	PPBV #	92
55) METHYL METHACRYLATE	11.29	69	45926	4.50	PPBV	99
56) HEPTANE	11.37	43	68864	4.72	PPBV	100
57) TVHC as EQUIV HEPTANE	11.37	TIC	384620m	4.67	PPBV	
58) METHYL ISOBUTYL KETONE	11.97	43	90357	4.45	PPBV	99
59) cis-1,3-DICHLOROPROPENE	11.94	75	84534	4.55	PPBV	99
60) TOLUENE	12.91	92	106105	4.56	PPBV	99
61) trans-1,3-DICHLOROPROPENE	12.44	75	80063	4.52	PPBV	98
62) 1,1,2-TRICHLOROETHANE	12.63	83	44491	4.60	PPBV	99
64) 2-HEXANONE	13.16	43	83349	4.67	PPBV	99
65) TETRACHLOROETHYLENE	14.05	164	77660	4.77	PPBV	99
66) DIBROMOCHLOROMETHANE	13.35	129	126931	4.84	PPBV	99
67) 1,2-DIBROMOETHANE	13.59	107	83851	4.77	PPBV	99
68) OCTANE	13.86	43	90607	4.82	PPBV	99
69) 1,1,1,2-TETRACHLOROETHANE	14.74	131	95418	4.92	PPBV #	100
70) CHLOROBENZENE	14.76	112	137093	4.78	PPBV	99
71) ETHYLBENZENE	15.15	91	241343	4.87	PPBV	100
72) m,p-XYLENE	15.34	106	180780	9.78	PPBV	100
73) o-XYLENE	15.85	106	86949	4.83	PPBV	99
74) STYRENE	15.73	104	126790	4.83	PPBV	100
75) 1,2,3-TRICHLOROPROPANE	15.99	75	83924	4.83	PPBV	99
76) NONANE	16.06	43	85266	4.79	PPBV	100
77) BROMOFORM	15.45	173	111527	4.75	PPBV	100
79) 1,1,2,2-TETRACHLOROETHANE	15.85	83	90393	4.78	PPBV	99
80) ISOPROPYLBENZENE	16.50	105	283869	4.87	PPBV	100
81) 2-CHLOROTOLUENE	17.03	126	58097	4.86	PPBV #	100
82) n-PROPYLBENZENE	17.06	120	67747	4.79	PPBV	100
83) 4-ETHYLTOLUENE	17.22	105	241413	4.81	PPBV	99
84) 1,3,5-TRIMETHYLBENZENE	17.31	105	201201	4.78	PPBV	99
85) TERT-BUTYLBENZENE	17.76	134	49725	4.66	PPBV	98
86) 1,2,4-TRIMETHYLBENZENE	17.77	105	186770	4.66	PPBV	99
87) m-DICHLOROBENZENE	17.95	146	109742	4.67	PPBV	99
88) BENZYL CHLORIDE	17.93	91	134181	4.58	PPBV	100
89) p-DICHLOROBENZENE	18.03	146	105343	4.78	PPBV	99
90) SEC-BUTYLBENZENE	18.07	134	57474	4.69	PPBV	99
91) p-ISOPROPYLTOLUENE	18.25	134	54724	4.53	PPBV	99
92) o-DICHLOROBENZENE	18.41	146	95495	4.71	PPBV	99
93) n-BUTYLBENZENE	18.73	134	40154	4.45	PPBV	98
94) HEXACHLOROBUTADIENE	20.87	225	35741	5.59	PPBV	99

(#) = qualifier out of range (m) = manual integration

W29771.D MW1222.M Mon Jan 24 09:29:14 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29771.D Vial: 2
Acq On : 19 Jan 2011 10:26 pm Operator: YOUMINH
Sample : IC1222-5 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 09:05:05 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,2,4-TRICHLOROBENZENE	20.36	180	14243	4.69	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W29771.D MW1222.M Mon Jan 24 09:29:14 2011 MSW

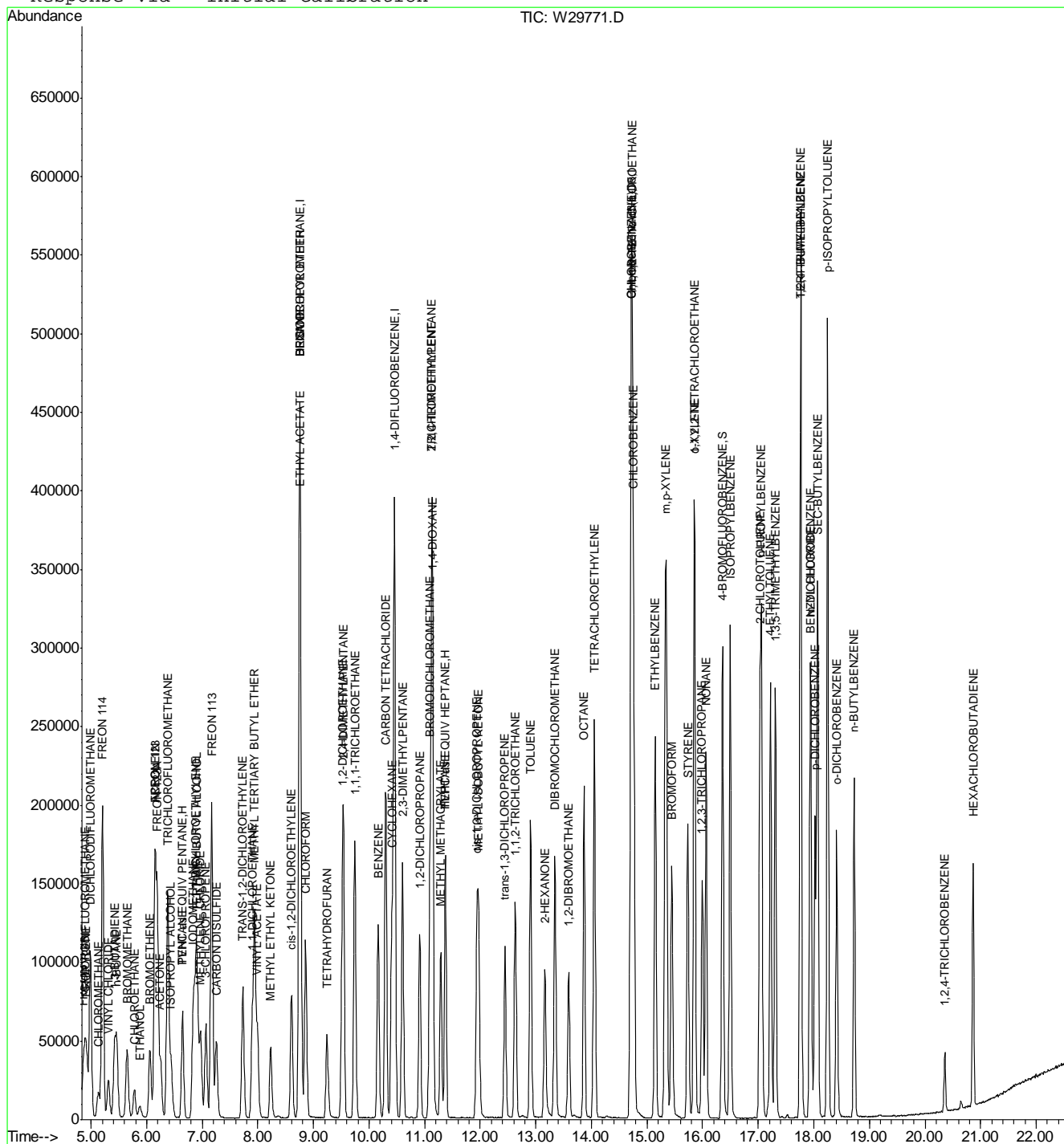
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29771.D
Acq On : 19 Jan 2011 10:26 pm
Sample : IC1222-5
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:08 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Initial Calibration



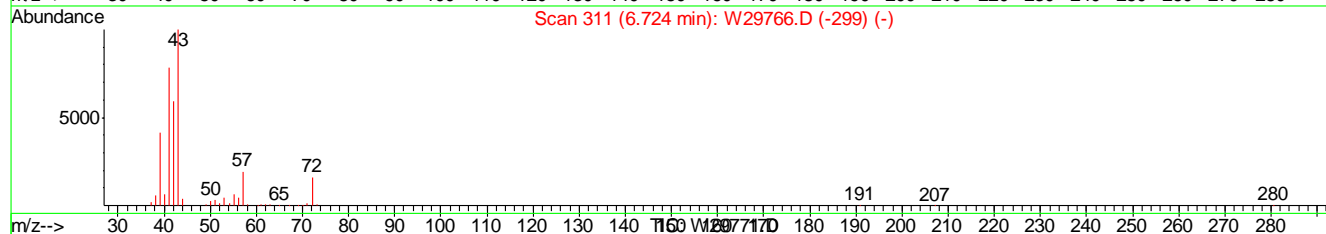
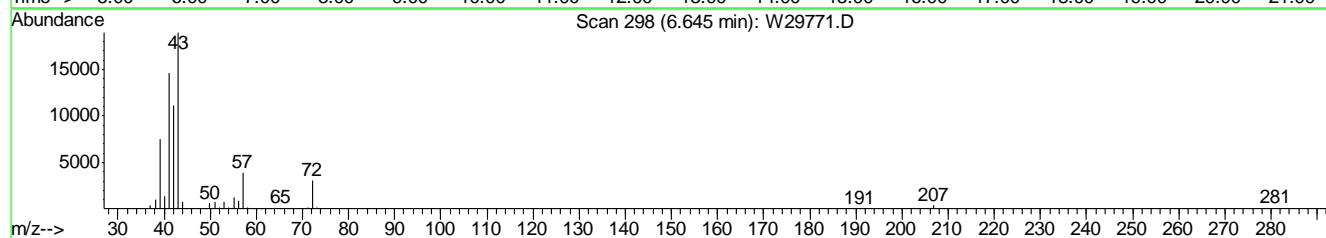
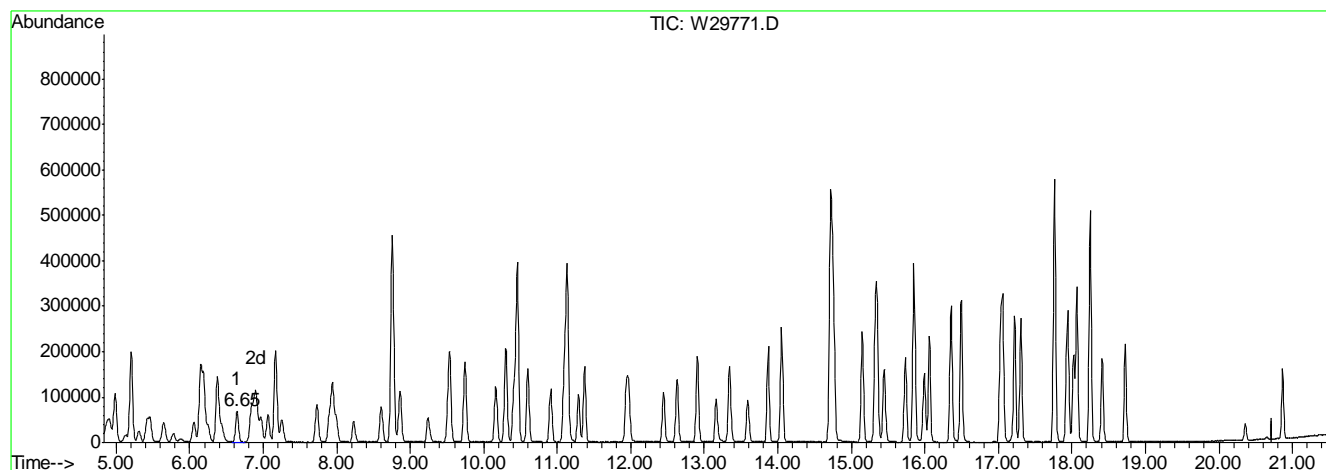
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29771.D
 Acq On : 19 Jan 2011 10:26 pm
 Sample : IC1222-5
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:08 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.65min 4.96PPBV m

response 191628

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

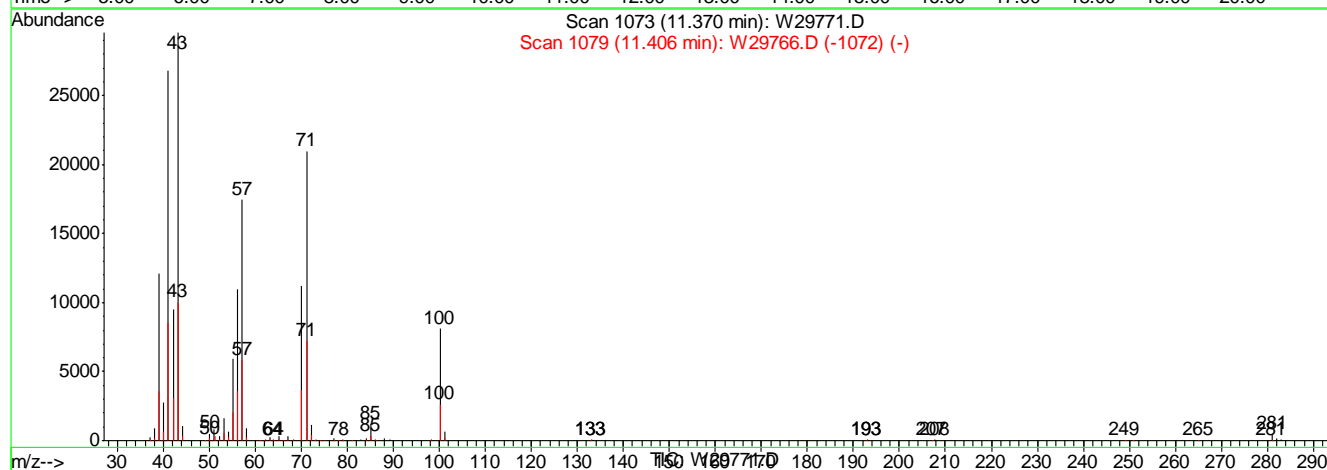
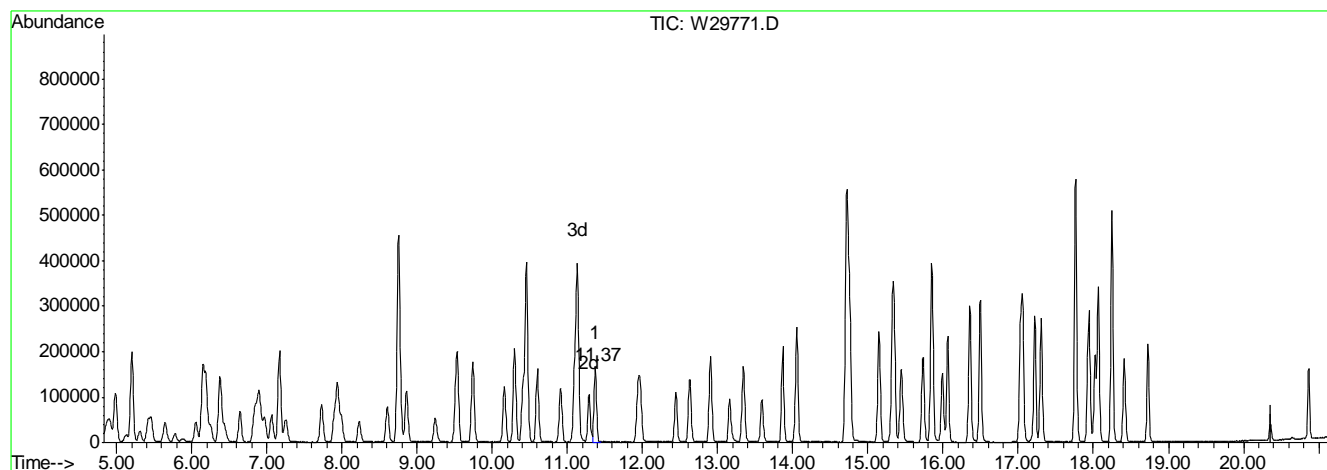
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29771.D
 Acq On : 19 Jan 2011 10:26 pm
 Sample : IC1222-5
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:08 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.37min 4.67PPBV m

response 384620

Signal Exp% Act%

TIC 100 100

0.00 0.00 0.00

0.00 0.00 0.00

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29774.D
 Acq On : 20 Jan 2011 1:46 am
 Sample : IC1222-40
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:08 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.85	128	75059	10.00	PPBV	0.03
46) 1,4-DIFLUOROBENZENE	10.52	114	350825	10.00	PPBV	0.02
63) CHLOROBENZENE-D5	14.75	82	254841	10.00	PPBV	0.01
96) Chlorobenzene-d5(a)	14.75	82	253783	10.00	PPBV	0.01

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE 16.38 95 132479 4.31 PPBV 0.01
 Spiked Amount 5.000 Range 65 - 128 Recovery = 86.20%

Target Compounds

Qvalue

3) FREON 152A	4.99	65	112894	28.42	PPBV	94
4) CHLORODIFLUOROMETHANE	5.02	67	122394	33.10	PPBV	99
5) DICHLORODIFLUOROMETHANE	5.11	85	1037586	32.57	PPBV	98
6) PROPYLENE	5.05	41	125000	28.49	PPBV	95
7) FREON 114	5.33	85	855811	30.27	PPBV	100
8) CHLOROMETHANE	5.26	52	45425	27.44	PPBV #	22
9) VINYL CHLORIDE	5.44	62	197425	28.66	PPBV	100
10) 1,3-BUTADIENE	5.55	54	163617	30.74	PPBV	95
11) n-BUTANE	5.59	43	288009	30.02	PPBV	100
12) BROMOMETHANE	5.77	94	228072	28.93	PPBV	99
13) CHLOROETHANE	5.91	64	111076	28.39	PPBV	97
14) ACROLEIN	6.27	56	77359	31.51	PPBV	99
15) FREON 123	6.27	83	645554	32.20	PPBV #	100
16) FREON 123A	6.32	117	492233	32.38	PPBV	100
17) TRICHLOROFLUOROMETHANE	6.50	101	1201885	33.11	PPBV	100
18) ISOPROPYL ALCOHOL	6.57	45	406814	31.20	PPBV	98
19) ACETONE	6.36	58	90213	29.75	PPBV #	74
20) PENTANE	6.76	57	57529	30.24	PPBV #	94
21) TVHC as EQUIV PENTANE	6.76	TIC	1114894m	31.42	PPBV	
22) IODOMETHANE	6.96	142	781071	32.22	PPBV	94
23) 1,1-DICHLOROETHYLENE	7.00	96	266233	32.31	PPBV	96
24) CARBON DISULFIDE	7.36	76	699376	31.27	PPBV	96
25) ETHANOL	6.01	45	64873	29.23	PPBV	96
26) BROMOETHENE	6.18	106	263182	30.21	PPBV	97
27) METHYLENE CHLORIDE	7.08	84	214841	31.04	PPBV	97
28) 3-CHLOROPROPENE	7.18	76	120362	31.26	PPBV #	90
29) FREON 113	7.28	151	630188	33.40	PPBV	100
30) TRANS-1,2-DICHLOROETHYLENE	7.83	96	300259	31.26	PPBV	97
31) TERTIARY BUTYL ALCOHOL	7.04	59	372270	15.34	PPBV	99
32) METHYL TERTIARY BUTYL ETHER	8.04	73	1138580	33.69	PPBV	99
33) TETRAHYDROFURAN	9.32	72	138027	32.08	PPBV	98
34) HEXANE	8.85	57	418645	33.38	PPBV	95
35) VINYL ACETATE	8.10	86	80152	32.61	PPBV #	43
36) 1,1-DICHLOROETHANE	8.00	63	524696	31.74	PPBV	99
37) METHYL ETHYL KETONE	8.33	72	137746	32.43	PPBV	93
38) cis-1,2-DICHLOROETHYLENE	8.69	96	322996	32.45	PPBV	98
39) DI-ISOPROPYL ETHER	8.84	45	929073	33.62	PPBV	100
40) ETHYL ACETATE	8.86	61	80126	33.66	PPBV #	95
41) CHLOROFORM	8.96	83	828691	33.20	PPBV	99
42) 2,4-DIMETHYLPENTANE	9.61	57	518978	33.03	PPBV	99

(#) = qualifier out of range (m) = manual integration

W29774.D MW1222.M Mon Jan 24 09:29:15 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29774.D
 Acq On : 20 Jan 2011 1:46 am
 Sample : IC1222-40
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:08 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,1,1-TRICHLOROETHANE	9.82	97	1108817	34.51	PPBV	99
44) CARBON TETRACHLORIDE	10.36	117	1253901	35.03	PPBV	100
45) 1,2-DICHLOROETHANE	9.60	62	684960	35.49	PPBV	99
47) BENZENE	10.24	78	944242	36.43	PPBV	99
48) CYCLOHEXANE	10.47	84	451516	36.47	PPBV	94
49) 2,3-DIMETHYLPENTANE	10.66	71	219208	37.35	PPBV	100
50) TRICHLOROETHYLENE	11.19	95	561524	41.84	PPBV	99
51) 1,2-DICHLOROPROPANE	10.97	63	287181	36.71	PPBV	96
52) BROMODICHLOROMETHANE	11.16	83	1033866	40.23	PPBV	100
53) 2,2,4-TRIMETHYLPENTANE	11.19	57	1557464	40.11	PPBV	99
54) 1,4-DIOXANE	11.20	88	251678	41.43	PPBV #	59
55) METHYL METHACRYLATE	11.35	69	345582	39.05	PPBV	97
56) HEPTANE	11.42	43	484917	38.28	PPBV	100
57) TVHC as EQUIV HEPTANE	11.42	TIC	2760316m	38.65	PPBV	
58) METHYL ISOBUTYL KETONE	12.03	43	693883	39.40	PPBV	99
59) cis-1,3-DICHLOROPROPENE	11.99	75	630167	39.06	PPBV	96
60) TOLUENE	12.95	92	790127	39.16	PPBV	100
61) trans-1,3-DICHLOROPROPENE	12.49	75	619390	40.29	PPBV	98
62) 1,1,2-TRICHLOROETHANE	12.68	83	330374	39.35	PPBV	100
64) 2-HEXANONE	13.20	43	664276	30.68	PPBV	100
65) TETRACHLOROETHYLENE	14.08	164	624284	31.66	PPBV	99
66) DIBROMOCHLOROMETHANE	13.39	129	983436	30.90	PPBV	100
67) 1,2-DIBROMOETHANE	13.64	107	662387	31.06	PPBV	100
68) OCTANE	13.90	43	686039	30.11	PPBV	98
69) 1,1,1,2-TETRACHLOROETHANE	14.78	131	756539	32.16	PPBV #	100
70) CHLOROBENZENE	14.79	112	1108188	31.88	PPBV	99
71) ETHYLBENZENE	15.18	91	1866391	31.04	PPBV	99
72) m,p-XYLENE	15.37	106	1445737	64.49	PPBV	100
73) o-XYLENE	15.88	106	704859	32.29	PPBV	100
74) STYRENE	15.76	104	1017229	31.94	PPBV	100
75) 1,2,3-TRICHLOROPROPANE	16.03	75	661219	31.38	PPBV	99
76) NONANE	16.08	43	677669	31.42	PPBV	98
77) BROMOFORM	15.48	173	921440	32.35	PPBV	100
79) 1,1,2,2-TETRACHLOROETHANE	15.89	83	743949	32.45	PPBV	99
80) ISOPROPYLBENZENE	16.52	105	2242865	31.71	PPBV	99
81) 2-CHLOROTOLUENE	17.05	126	473071	32.62	PPBV #	100
82) n-PROPYLBENZENE	17.08	120	570035	33.21	PPBV	94
83) 4-ETHYLTOLUENE	17.24	105	1968138	32.37	PPBV	100
84) 1,3,5-TRIMETHYLBENZENE	17.33	105	1649086	32.34	PPBV	100
85) TERT-BUTYLBENZENE	17.78	134	445487	34.41	PPBV	99
86) 1,2,4-TRIMETHYLBENZENE	17.79	105	1683399	34.61	PPBV	99
87) m-DICHLOROBENZENE	17.97	146	978090	34.32	PPBV	100
88) BENZYL CHLORIDE	17.95	91	1258169	35.46	PPBV	100
89) p-DICHLOROBENZENE	18.05	146	897563	33.56	PPBV	100
90) SEC-BUTYLBENZENE	18.09	134	505182	34.04	PPBV	96
91) p-ISOPROPYLTOLUENE	18.26	134	511243	34.95	PPBV	100
92) o-DICHLOROBENZENE	18.43	146	820403	33.37	PPBV	99
93) n-BUTYLBENZENE	18.74	134	378695	34.61	PPBV	100
94) HEXACHLOROBUTADIENE	20.87	225	245586	31.71	PPBV	100

(#) = qualifier out of range (m) = manual integration

W29774.D MW1222.M Mon Jan 24 09:29:15 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29774.D Vial: 2
Acq On : 20 Jan 2011 1:46 am Operator: YOUMINH
Sample : IC1222-40 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 09:05:08 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,2,4-TRICHLOROBENZENE	20.36	180	140621	38.17	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W29774.D MW1222.M Mon Jan 24 09:29:15 2011 MSW

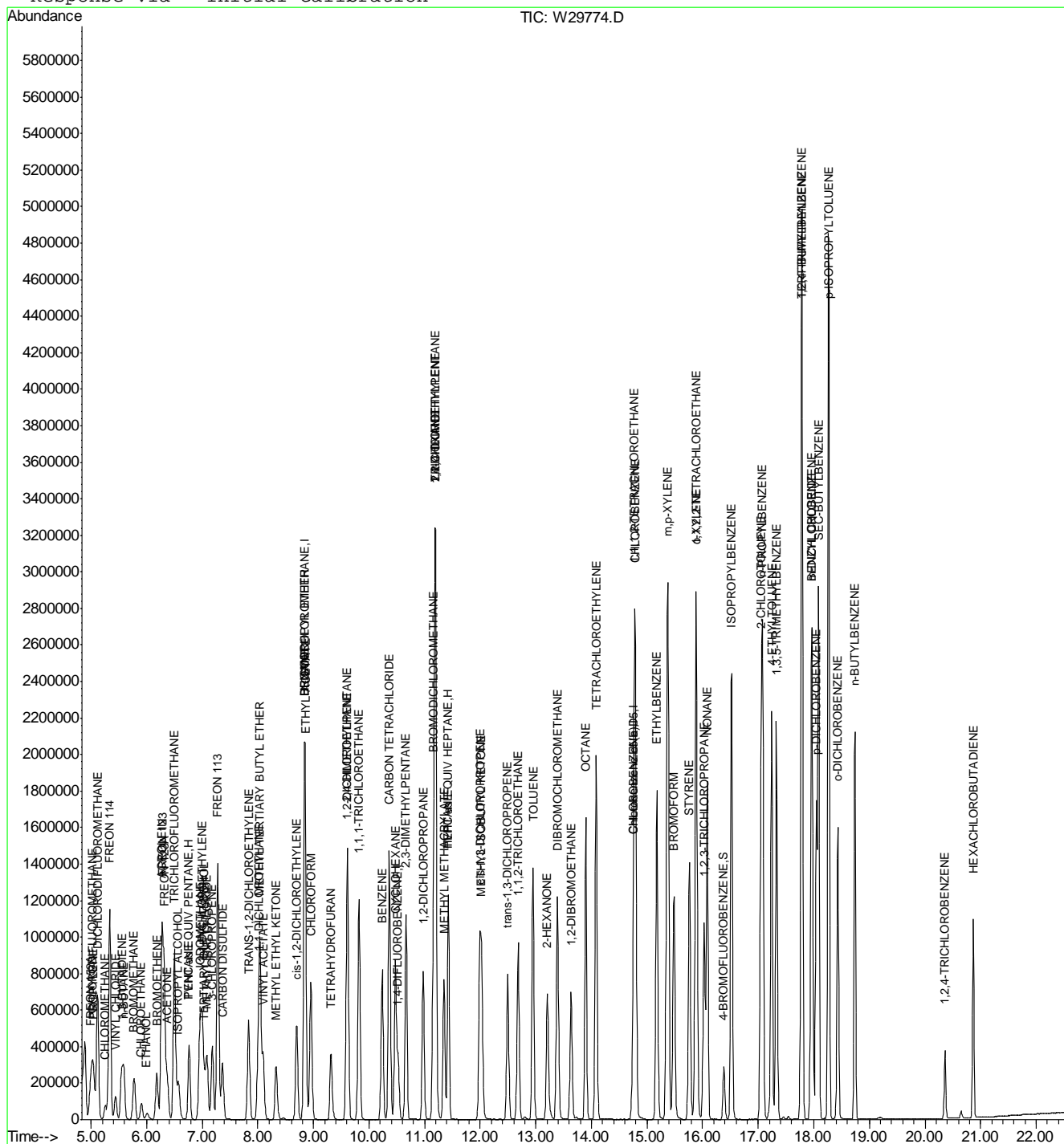
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29774.D
Acq On : 20 Jan 2011 1:46 am
Sample : IC1222-40
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:09 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Initial Calibration



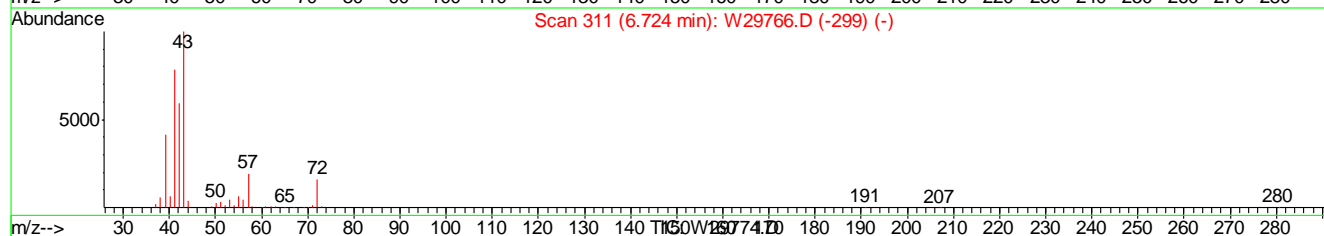
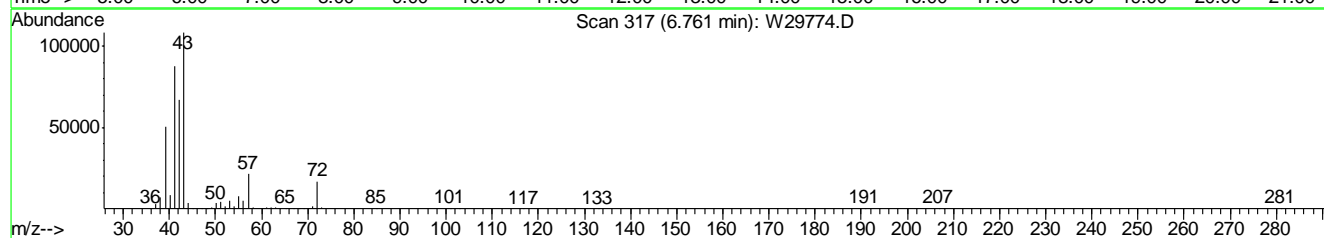
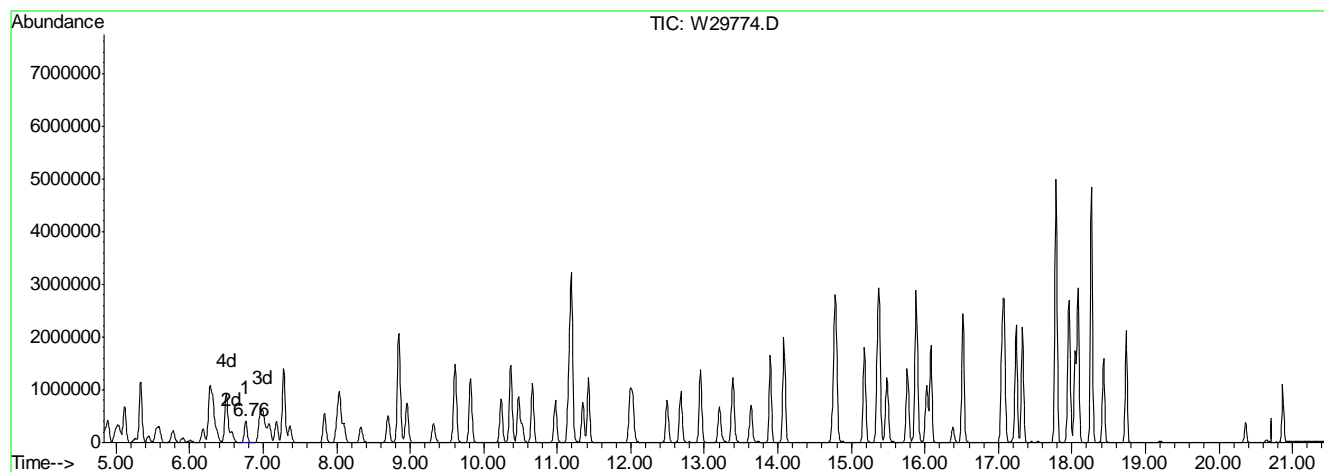
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29774.D
 Acq On : 20 Jan 2011 1:46 am
 Sample : IC1222-40
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:09 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.76min 31.42PPBV m

response 1114894

Signal Exp% Act%

TIC 100 100

0.00 0.00 0.02#

0.00 0.00 0.02#

0.00 0.00 0.00

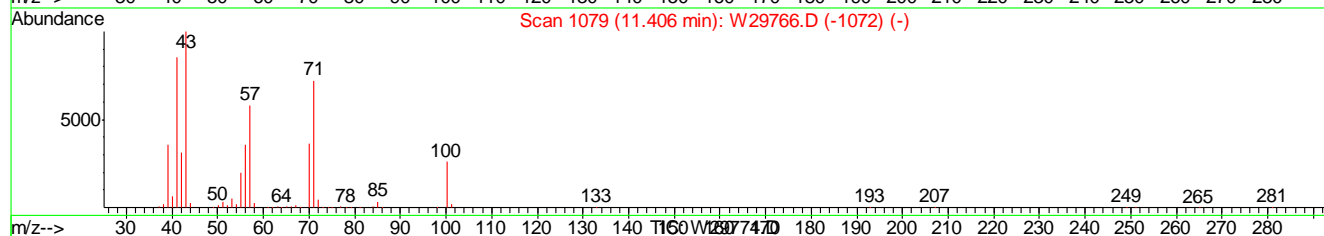
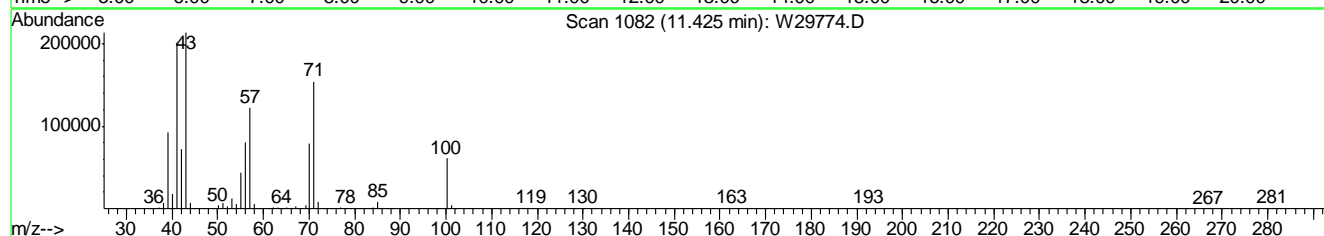
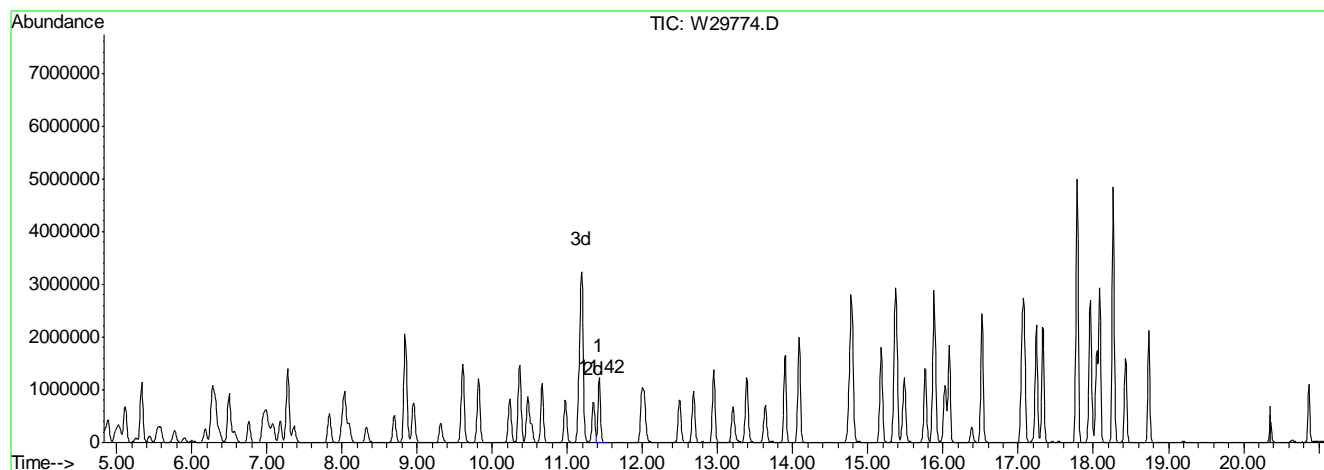
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29774.D
 Acq On : 20 Jan 2011 1:46 am
 Sample : IC1222-40
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:09 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.42min 38.65PPBV m

response 2760316

Signal Exp% Act%

TIC 100 100

0.00 0.00 0.01#

0.00 0.00 0.01#

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29775.D

Vial: 1

Acq On : 20 Jan 2011 6:34 am

Operator: YOUMINH

Sample : IC1222-0.5

Inst : MSW

Misc : MS6862,VW1222,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 24 09:05:09 2011

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)

Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um

Last Update : Mon Jan 24 09:04:12 2011

Response via : Initial Calibration

DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	80679	10.00	PPBV	-0.05
46) 1,4-DIFLUOROBENZENE	10.46	114	367655	10.00	PPBV	-0.04
63) CHLOROBENZENE-D5	14.72	82	163398	10.00	PPBV	-0.02
96) Chlorobenzene-d5(a)	14.72	82	162597	10.00	PPBV	-0.02

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE	16.36	95	92701	4.70	PPBV	-0.01
Spiked Amount	5.000	Range	65 - 128	Recovery	=	94.00%

Target Compounds

Qvalue

3) FREON 152A	4.88	65	2785	0.65	PPBV	91
4) CHLORODIFLUOROMETHANE	4.91	67	1936	0.49	PPBV	94
5) DICHLORODIFLUOROMETHANE	5.00	85	17880	0.52	PPBV	98
6) PROPYLENE	4.94	41	2980	0.63	PPBV	92
7) FREON 114	5.22	85	16582	0.55	PPBV	99
8) CHLOROMETHANE	5.15	52	1117	0.63	PPBV #	67
9) VINYL CHLORIDE	5.33	62	4661	0.63	PPBV	75
10) 1,3-BUTADIENE	5.44	54	3285	0.57	PPBV	95
11) n-BUTANE	5.47	43	6770	0.66	PPBV #	98
12) BROMOMETHANE	5.66	94	5146	0.61	PPBV	99
13) CHLOROETHANE	5.79	64	2470	0.59	PPBV	93
14) ACROLEIN	6.17	56	1351	0.51	PPBV	99
15) FREON 123	6.16	83	11831	0.55	PPBV #	99
16) FREON 123A	6.21	117	8885	0.54	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.40	101	21167	0.54	PPBV	99
18) ISOPROPYL ALCOHOL	6.52	45	8202	0.59	PPBV	99
19) ACETONE	6.29	58	1935	0.59	PPBV	93
20) PENTANE	6.66	57	1042	0.51	PPBV #	66
21) TVHC as EQUIV PENTANE	6.66	TIC	22180m	0.58	PPBV	
22) IODOMETHANE	6.85	142	14443	0.55	PPBV	93
23) 1,1-DICHLOROETHYLENE	6.90	96	4791	0.54	PPBV	96
24) CARBON DISULFIDE	7.27	76	13493	0.56	PPBV	99
25) ETHANOL	5.93	45	2233	0.94	PPBV	87
26) BROMOETHENE	6.07	106	5651	0.60	PPBV	98
27) METHYLENE CHLORIDE	6.99	84	4548	0.61	PPBV	97
28) 3-CHLOROPROPENE	7.08	76	2074	0.50	PPBV #	89
29) FREON 113	7.18	151	10487	0.52	PPBV	98
30) TRANS-1,2-DICHLOROETHYLENE	7.74	96	5183	0.50	PPBV	98
31) TERTIARY BUTYL ALCOHOL	7.01	59	12123	0.46	PPBV	92
32) METHYL TERTIARY BUTYL ETHER	7.97	73	14679	0.40	PPBV	96
33) TETRAHYDROFURAN	9.30	72	1814	0.39	PPBV	92
34) HEXANE	8.77	57	6528	0.48	PPBV	96
35) VINYL ACETATE	8.01	86	1064	0.40	PPBV #	90
36) 1,1-DICHLOROETHANE	7.91	63	8544	0.48	PPBV	98
37) METHYL ETHYL KETONE	8.26	72	1843	0.40	PPBV #	83
38) cis-1,2-DICHLOROETHYLENE	8.61	96	5188	0.48	PPBV	99
39) DI-ISOPROPYL ETHER	8.77	45	12410	0.42	PPBV	100
40) ETHYL ACETATE	8.78	61	1066	0.42	PPBV #	98
41) CHLOROFORM	8.86	83	12369	0.46	PPBV	99
42) 2,4-DIMETHYLPENTANE	9.54	57	8108	0.48	PPBV	98

(#) = qualifier out of range (m) = manual integration

W29775.D MW1222.M

Mon Jan 24 09:29:16 2011

MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29775.D
 Acq On : 20 Jan 2011 6:34 am
 Sample : IC1222-0.5
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:09 2011

Vial: 1
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,1,1-TRICHLOROETHANE	9.75	97	15589	0.45	PPBV	99
44) CARBON TETRACHLORIDE	10.30	117	17281	0.45	PPBV	98
45) 1,2-DICHLOROETHANE	9.52	62	9104	0.44	PPBV	99
47) BENZENE	10.17	78	14121	0.52	PPBV	100
48) CYCLOHEXANE	10.41	84	7649	0.59	PPBV #	8
49) 2,3-DIMETHYLPENTANE	10.60	71	3664	0.60	PPBV	98
50) TRICHLOROETHYLENE	11.13	95	7269	0.52	PPBV	99
51) 1,2-DICHLOROPROPANE	10.92	63	3976	0.48	PPBV	98
52) BROMODICHLOROMETHANE	11.10	83	13338	0.50	PPBV	97
53) 2,2,4-TRIMETHYLPENTANE	11.14	57	19800	0.49	PPBV	99
54) 1,4-DIOXANE	11.27	88	2915	0.46	PPBV #	1
55) METHYL METHACRYLATE	11.31	69	4043	0.44	PPBV	95
56) HEPTANE	11.38	43	7059	0.53	PPBV	95
57) TVHC as EQUIV HEPTANE	11.38	TIC	39594m	0.53	PPBV	
58) METHYL ISOBUTYL KETONE	12.01	43	8520	0.46	PPBV	98
59) cis-1,3-DICHLOROPROPENE	11.94	75	7859	0.46	PPBV #	79
60) TOLUENE	12.91	92	9456	0.45	PPBV	99
61) trans-1,3-DICHLOROPROPENE	12.45	75	7446	0.46	PPBV	96
62) 1,1,2-TRICHLOROETHANE	12.64	83	3806	0.43	PPBV	98
64) 2-HEXANONE	13.20	43	8269	0.60	PPBV	97
65) TETRACHLOROETHYLENE	14.06	164	7587	0.60	PPBV	98
66) DIBROMOCHLOROMETHANE	13.35	129	11154	0.55	PPBV	96
67) 1,2-DIBROMOETHANE	13.59	107	7901	0.58	PPBV	98
68) OCTANE	13.86	43	7748	0.53	PPBV	100
69) 1,1,1,2-TETRACHLOROETHANE	14.75	131	7811	0.52	PPBV #	98
70) CHLOROBENZENE	14.77	112	12391	0.56	PPBV #	75
71) ETHYLBENZENE	15.16	91	19587	0.51	PPBV	99
72) m,p-XYLENE	15.34	106	14269	0.99	PPBV	91
73) o-XYLENE	15.85	106	6491	0.46	PPBV	95
74) STYRENE	15.73	104	9934	0.49	PPBV	97
75) 1,2,3-TRICHLOROPROPANE	16.00	75	6560	0.49	PPBV	99
76) NONANE	16.06	43	6137	0.44	PPBV	96
77) BROMOFORM	15.45	173	9856	0.54	PPBV	98
79) 1,1,2,2-TETRACHLOROETHANE	15.86	83	6753	0.46	PPBV	96
80) ISOPROPYLBENZENE	16.50	105	20563	0.45	PPBV	99
81) 2-CHLOROTOLUENE	17.03	126	4725	0.51	PPBV #	95
82) n-PROPYLBENZENE	17.06	120	4818	0.44	PPBV	97
83) 4-ETHYLTOLUENE	17.22	105	16602	0.43	PPBV	96
84) 1,3,5-TRIMETHYLBENZENE	17.31	105	13716	0.42	PPBV	99
85) TERT-BUTYLBENZENE	17.76	134	3122	0.38	PPBV	89
86) 1,2,4-TRIMETHYLBENZENE	17.77	105	12422	0.40	PPBV	99
87) m-DICHLOROBENZENE	17.95	146	8632	0.47	PPBV	99
88) BENZYL CHLORIDE	17.93	91	9709	0.43	PPBV	98
89) p-DICHLOROBENZENE	18.03	146	8546	0.50	PPBV	99
90) SEC-BUTYLBENZENE	18.07	134	3936	0.41	PPBV	92
91) p-ISOPROPYLTOLUENE	18.25	134	3617	0.39	PPBV	99
92) o-DICHLOROBENZENE	18.42	146	7497	0.48	PPBV	97
93) n-BUTYLBENZENE	18.72	134	2315	0.33	PPBV	84
94) HEXACHLOROBUTADIENE	20.87	225	2467	0.50	PPBV	97

(#) = qualifier out of range (m) = manual integration

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29775.D Vial: 1
Acq On : 20 Jan 2011 6:34 am Operator: YOUMINH
Sample : IC1222-0.5 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 09:05:09 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,2,4-TRICHLOROBENZENE	20.36	180	2134	0.90	PPBV	100

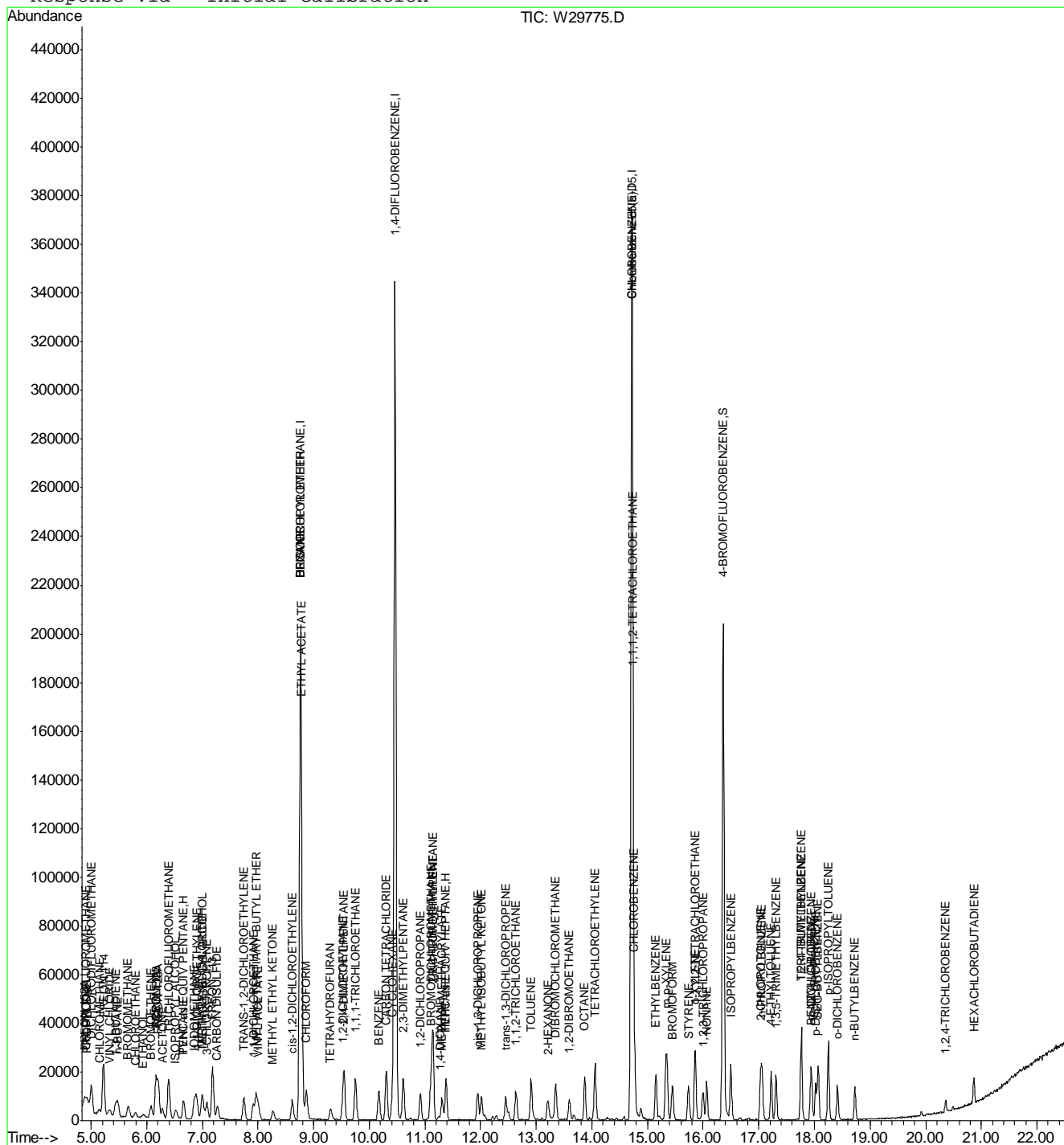
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W29775.D MW1222.M Mon Jan 24 09:29:16 2011 MSW

(OT Reviewed)

Vial: 1
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Initial Calibration



MSW

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6.7.38

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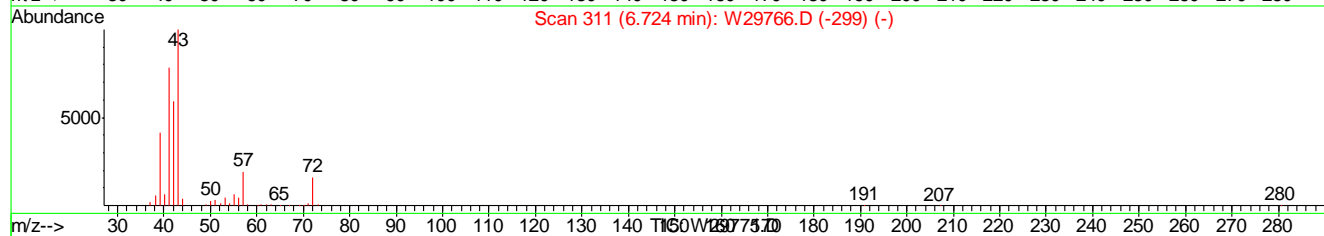
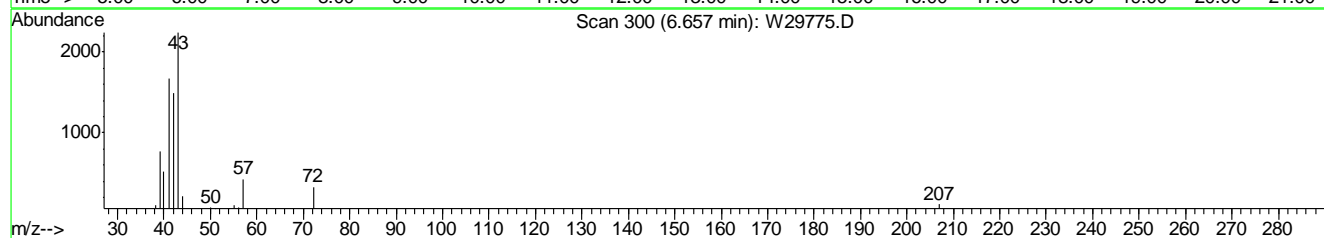
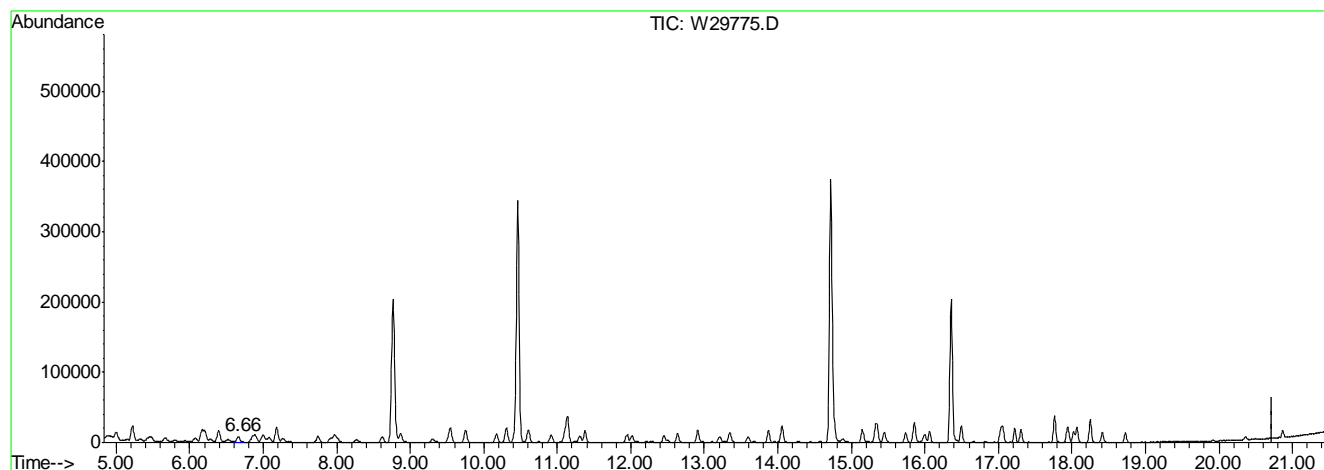
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29775.D
 Acq On : 20 Jan 2011 6:34 am
 Sample : IC1222-0.5
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:10 2011

Vial: 1
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.66min 0.58PPBV m

response 22180

Signal Exp% Act%

TIC 100 100

0.00 0.00 0.25#

0.00 0.00 0.79#

0.00 0.00 0.00

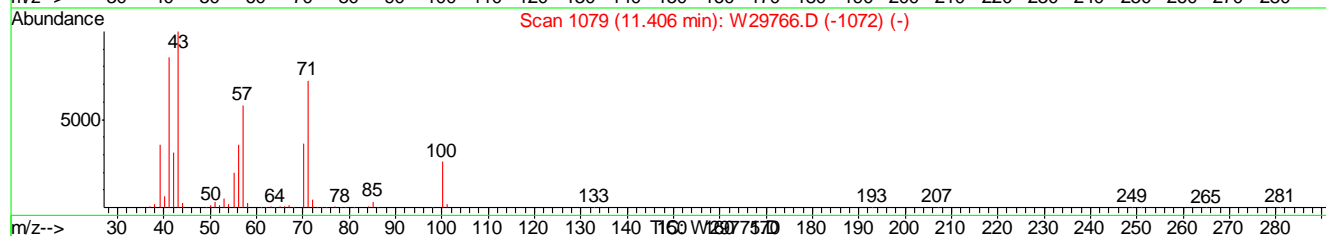
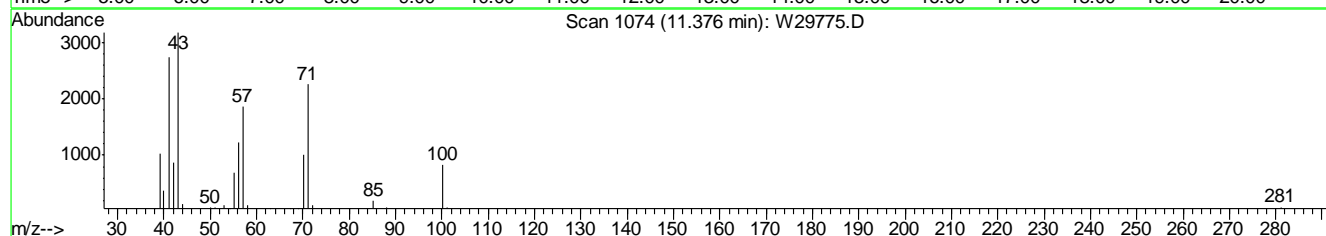
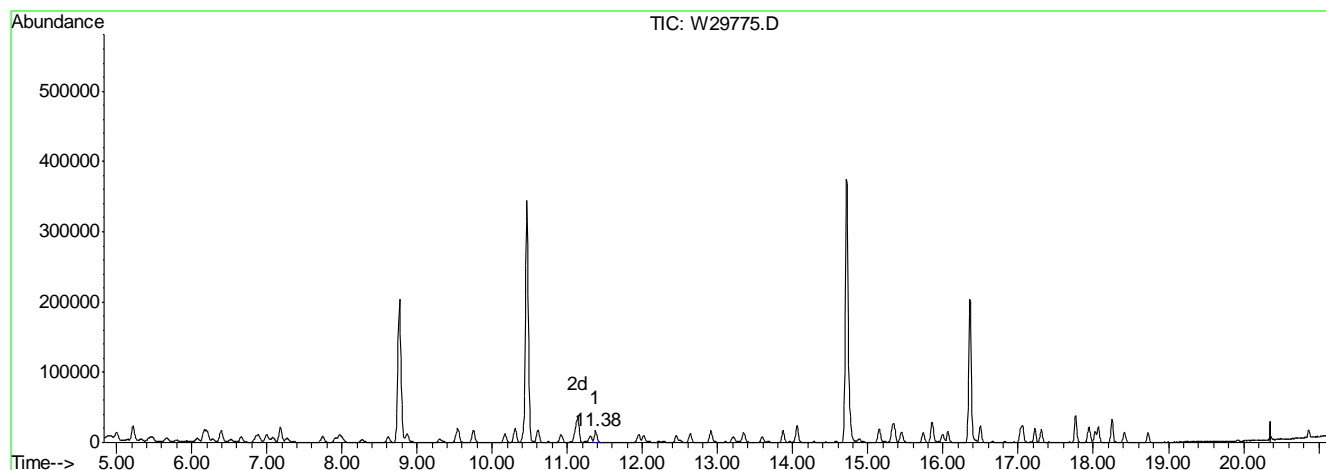
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29775.D
 Acq On : 20 Jan 2011 6:34 am
 Sample : IC1222-0.5
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:10 2011

Vial: 1
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.38min 0.53PPBV m

response 39594

Signal Exp% Act%

TIC 100 100

0.00 0.00 0.14#

0.00 0.00 0.44#

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29776.D Vial: 1
 Acq On : 20 Jan 2011 7:15 am Operator: YOUMINH
 Sample : IC1222-0.2 Inst : MSW
 Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:10 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	69106	10.00	PPBV	-0.04
46) 1,4-DIFLUOROBENZENE	10.47	114	349114	10.00	PPBV	-0.03
63) CHLOROBENZENE-D5	14.72	82	169427	10.00	PPBV	-0.01
96) Chlorobenzene-d5(a)	14.72	82	168136	10.00	PPBV	-0.01

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE 16.36 95 95715 4.68 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 93.60%

Target Compounds

Qvalue

3) FREON 152A	4.90	65	1307	0.36	PPBV	#	85
4) CHLORODIFLUOROMETHANE	4.92	67	792	0.23	PPBV	#	79
5) DICHLORODIFLUOROMETHANE	5.02	85	7266	0.25	PPBV		98
6) PROPYLENE	4.96	41	946	0.23	PPBV	#	81
7) FREON 114	5.24	85	6222	0.24	PPBV		98
8) CHLOROMETHANE	5.16	52	296	0.19	PPBV	#	63
9) VINYL CHLORIDE	5.34	62	1465	0.23	PPBV		77
10) 1,3-BUTADIENE	5.46	54	1214	0.25	PPBV		90
11) n-BUTANE	5.49	43	2300	0.26	PPBV	#	92
12) BROMOMETHANE	5.68	94	1772	0.24	PPBV		86
13) CHLOROETHANE	5.81	64	757	0.21	PPBV		83
14) ACROLEIN	6.19	56	382	0.17	PPBV		86
15) FREON 123	6.18	83	4255	0.23	PPBV	#	100
16) FREON 123A	6.22	117	3371	0.24	PPBV		93
17) TRICHLOROFLUOROMETHANE	6.41	101	8249	0.25	PPBV		98
18) ISOPROPYL ALCOHOL	6.61	45	2762	0.23	PPBV		94
19) ACETONE	6.30	58	677	0.24	PPBV	#	76
20) PENTANE	6.68	57	395	0.23	PPBV	#	67
21) TVHC as EQUIV PENTANE	6.68	TIC	8346m	0.26	PPBV		
22) IODOMETHANE	6.86	142	5211	0.23	PPBV		94
23) 1,1-DICHLOROETHYLENE	6.90	96	1827	0.24	PPBV		99
24) CARBON DISULFIDE	7.27	76	4810	0.23	PPBV		88
26) BROMOETHENE	6.09	106	1867	0.23	PPBV		93
27) METHYLENE CHLORIDE	7.00	84	1664	0.26	PPBV		85
28) 3-CHLOROPROPENE	7.09	76	824	0.23	PPBV	#	63
29) FREON 113	7.19	151	3920	0.23	PPBV		98
30) TRANS-1,2-DICHLOROETHYLENE	7.75	96	2247	0.25	PPBV		93
31) TERTIARY BUTYL ALCOHOL	7.11	59	4992m	0.22	PPBV		
32) METHYL TERTIARY BUTYL ETHER	7.99	73	6984	0.22	PPBV		99
33) TETRAHYDROFURAN	9.36	72	663	0.17	PPBV	#	77
34) HEXANE	8.78	57	2744	0.24	PPBV		95
35) VINYL ACETATE	8.04	86	471	0.21	PPBV	#	1
36) 1,1-DICHLOROETHANE	7.93	63	3530	0.23	PPBV		95
37) METHYL ETHYL KETONE	8.31	72	709m	0.18	PPBV		
38) cis-1,2-DICHLOROETHYLENE	8.63	96	2224	0.24	PPBV		93
39) DI-ISOPROPYL ETHER	8.79	45	5500	0.22	PPBV		97
40) ETHYL ACETATE	8.83	61	332	0.15	PPBV	#	1
41) CHLOROFORM	8.88	83	5281	0.23	PPBV		96
42) 2,4-DIMETHYLPENTANE	9.56	57	3226	0.22	PPBV		98
43) 1,1,1-TRICHLOROETHANE	9.76	97	6474	0.22	PPBV		95

(#) = qualifier out of range (m) = manual integration

W29776.D MW1222.M Tue Jan 25 14:40:24 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29776.D
 Acq On : 20 Jan 2011 7:15 am
 Sample : IC1222-0.2
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:10 2011

Vial: 1
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CARBON TETRACHLORIDE	10.31	117	7629	0.23	PPBV	98
45) 1,2-DICHLOROETHANE	9.54	62	3990	0.22	PPBV	98
47) BENZENE	10.18	78	5634	0.22	PPBV	96
48) CYCLOHEXANE	10.43	84	3161	0.26	PPBV #	8
49) 2,3-DIMETHYLPENTANE	10.61	71	1305	0.22	PPBV	93
50) TRICHLOROETHYLENE	11.14	95	3032	0.23	PPBV	95
51) 1,2-DICHLOROPROPANE	10.92	63	1787	0.23	PPBV	96
52) BROMODICHLOROMETHANE	11.11	83	5587	0.22	PPBV	99
53) 2,2,4-TRIMETHYLPENTANE	11.15	57	7876	0.20	PPBV	98
54) 1,4-DIOXANE	11.39	88	861m	0.14	PPBV	
55) METHYL METHACRYLATE	11.33	69	1753	0.20	PPBV	97
56) HEPTANE	11.38	43	2829	0.22	PPBV	94
57) TVHC as EQUIV HEPTANE	11.38	TIC	17004m	0.24	PPBV	
58) METHYL ISOBUTYL KETONE	12.08	43	3176	0.18	PPBV #	54
59) cis-1,3-DICHLOROPROPENE	11.96	75	3378	0.21	PPBV #	82
60) TOLUENE	12.91	92	4166	0.21	PPBV	96
61) trans-1,3-DICHLOROPROPENE	12.46	75	2902	0.19	PPBV	93
62) 1,1,2-TRICHLOROETHANE	12.64	83	1627	0.19	PPBV	99
64) 2-HEXANONE	13.26	43	2722	0.19	PPBV	85
65) TETRACHLOROETHYLENE	14.06	164	3006	0.23	PPBV	97
66) DIBROMOCHLOROMETHANE	13.35	129	4748	0.22	PPBV	97
67) 1,2-DIBROMOETHANE	13.60	107	2978	0.21	PPBV	99
68) OCTANE	13.88	43	3188	0.21	PPBV	99
69) 1,1,1,2-TETRACHLOROETHANE	14.75	131	3682	0.24	PPBV #	97
70) CHLOROBENZENE	14.77	112	5171	0.22	PPBV	88
71) ETHYLBENZENE	15.15	91	8776	0.22	PPBV	99
72) m,p-XYLENE	15.35	106	5804	0.39	PPBV #	97
73) o-XYLENE	15.85	106	2945	0.20	PPBV	97
74) STYRENE	15.74	104	3702	0.17	PPBV	98
75) 1,2,3-TRICHLOROPROPANE	16.01	75	2907	0.21	PPBV	93
76) NONANE	16.06	43	2631	0.18	PPBV	98
77) BROMOFORM	15.45	173	4244	0.22	PPBV	97
79) 1,1,2,2-TETRACHLOROETHANE	15.88	83	2661	0.17	PPBV	93
80) ISOPROPYLBENZENE	16.50	105	9120	0.19	PPBV	98
81) 2-CHLOROTOLUENE	17.04	126	1840	0.19	PPBV #	96
82) n-PROPYLBENZENE	17.06	120	2023	0.18	PPBV	98
83) 4-ETHYLTOLUENE	17.23	105	6667	0.16	PPBV	100
84) 1,3,5-TRIMETHYLBENZENE	17.31	105	6005	0.18	PPBV	98
85) TERT-BUTYLBENZENE	17.77	134	1381	0.16	PPBV	94
86) 1,2,4-TRIMETHYLBENZENE	17.78	105	4835	0.15	PPBV	92
87) m-DICHLOROBENZENE	17.95	146	2682	0.14	PPBV	98
88) BENZYL CHLORIDE	17.94	91	2631	0.11	PPBV	98
89) p-DICHLOROBENZENE	18.03	146	2507	0.14	PPBV	100
90) SEC-BUTYLBENZENE	18.08	134	1573	0.16	PPBV	99
91) p-ISOPROPYLTOLUENE	18.25	134	1352	0.14	PPBV	97
92) o-DICHLOROBENZENE	18.42	146	2393	0.15	PPBV	97
93) n-BUTYLBENZENE	18.73	134	860	0.12	PPBV	88
94) HEXACHLOROBUTADIENE	20.87	225	669	0.13	PPBV #	81
95) 1,2,4-TRICHLOROBENZENE	20.36	180	308	0.13	PPBV	85

(#) = qualifier out of range (m) = manual integration

W29776.D MW1222.M

Tue Jan 25 14:40:25 2011

MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29776.D Vial: 1
Acq On : 20 Jan 2011 7:15 am Operator: YOUMINH
Sample : IC1222-0.2 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 09:05:10 2011 Quant Results File: MW1222.RES

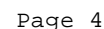
Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
W29776.D MW1222.M Tue Jan 25 14:40:25 2011 MSW

Vial: 1
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:39:52 2011
Response via : Initial Calibration



9

Manual Integration Approval Summary

Sample Number:

VW1222-IC1222

Method:

TO-15

Lab FileID:

W29776.D

Analyst approved:

01/24/11 09:37 Youmin Hu

Injection Time:

01/20/11 07:15

Supervisor approved:

01/25/11 14:40 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tertiary Butyl Alcohol	75-65-0		7.11	Missed peak
1,4-Dioxane	123-91-1		11.39	Missed peak

6.7.39.1
6

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29776.D

Vial: 1

Acq On : 20 Jan 2011 7:15 am

Operator: YOUMINH

Sample : IC1222-0.2

Inst : MSW

Misc : MS6862,VW1222,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 24 9:11 2011

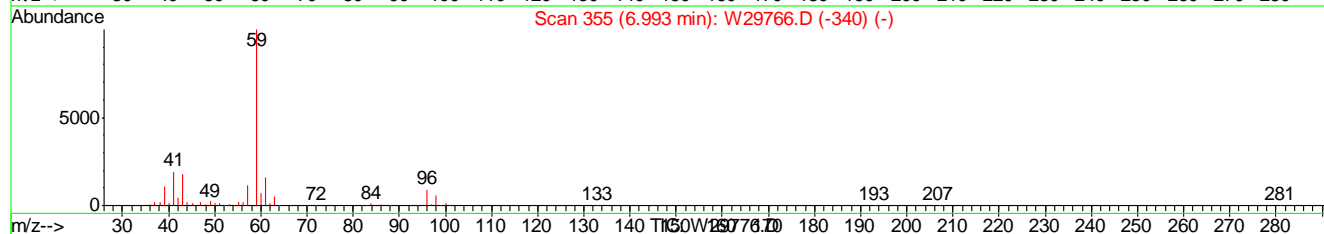
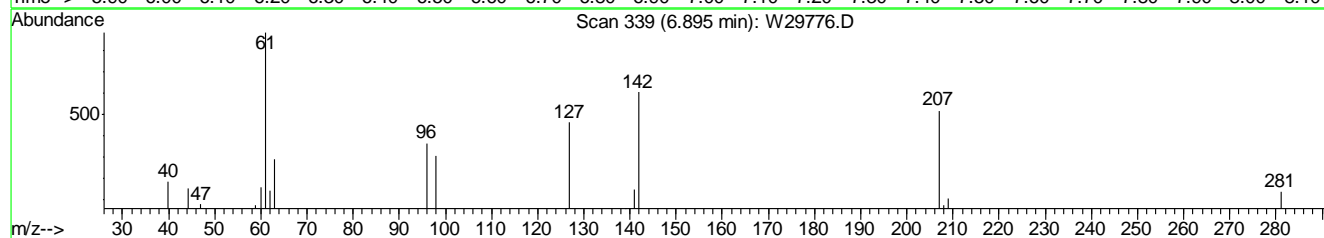
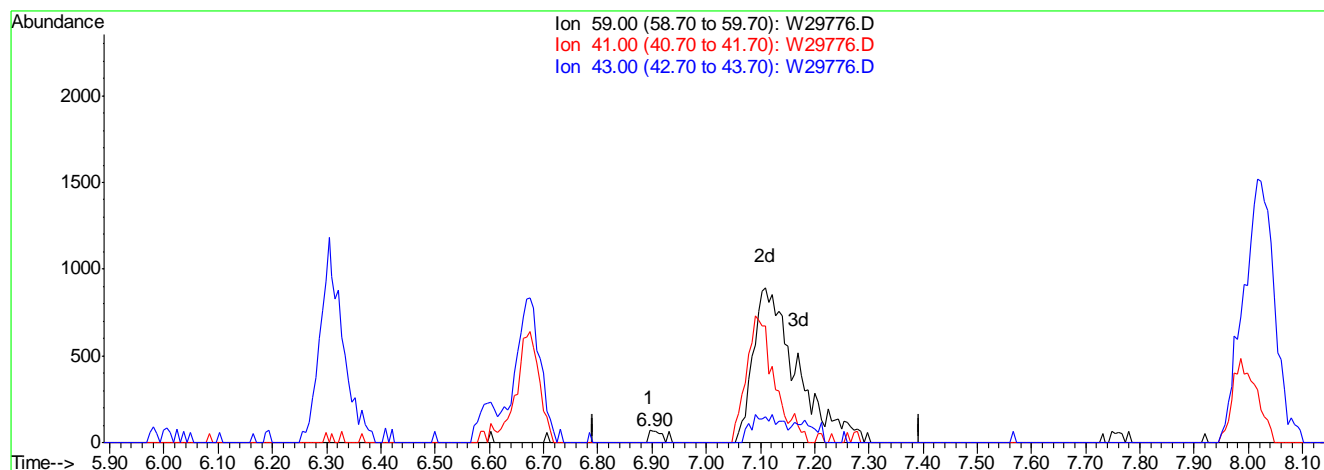
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)

Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um

Last Update : Mon Jan 24 09:04:12 2011

Response via : Multiple Level Calibration



(31) TERTIARY BUTYL ALCOHOL

6.90min 0.01PPBV

response 112

Ion	Exp%	Act%
59.00	100	100
41.00	19.20	0.00
43.00	18.50	0.00
0.00	0.00	0.00

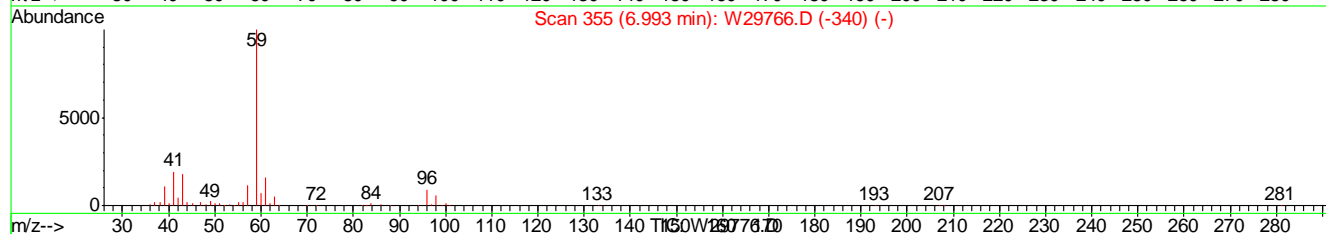
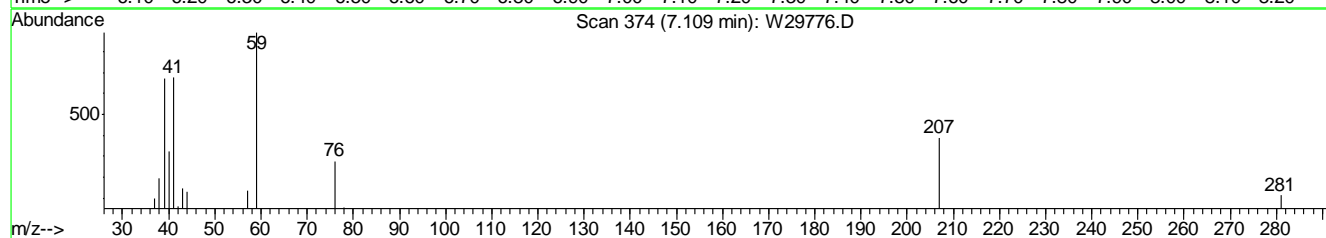
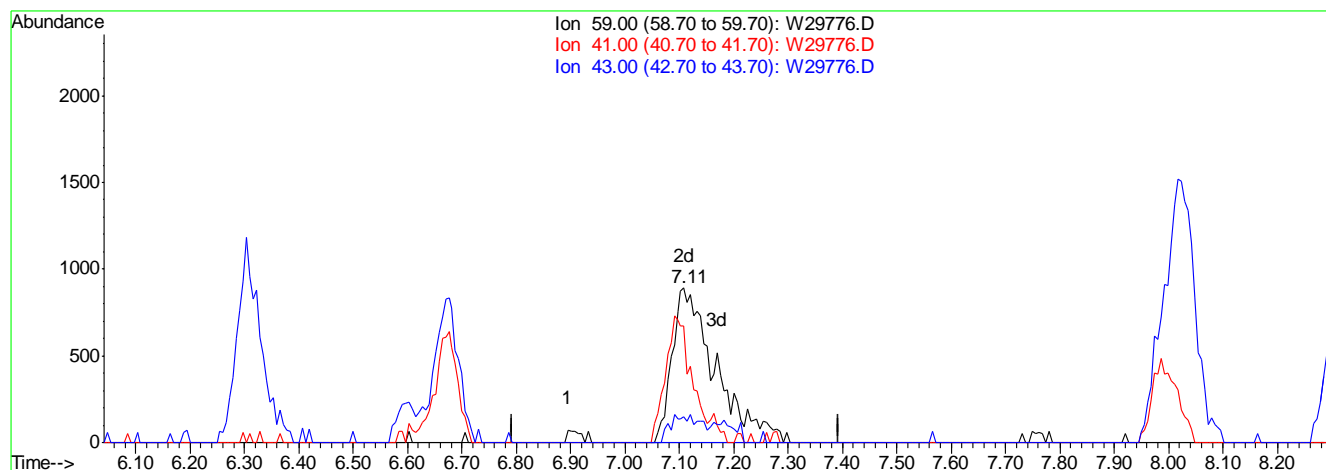
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29776.D
Acq On : 20 Jan 2011 7:15 am
Sample : IC1222-0.2
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:11 2011

Vial: 1
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(31) TERTIARY BUTYL ALCOHOL

7.11min 0.22PPBV m

response 4992

Ion	Exp%	Act%
59.00	100	100
41.00	19.20	0.00
43.00	18.50	0.00
0.00	0.00	0.00

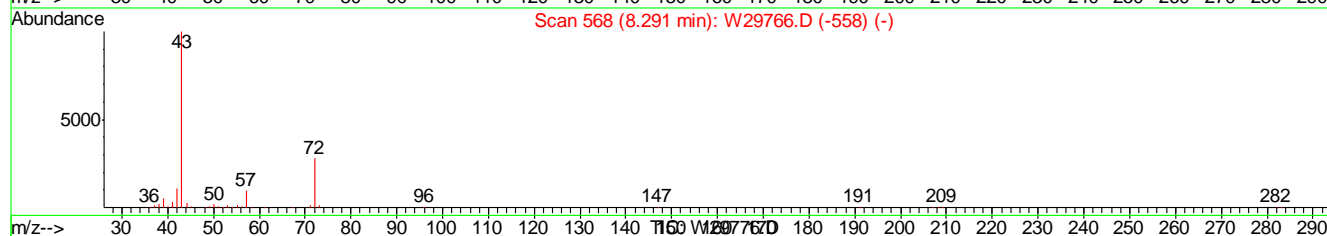
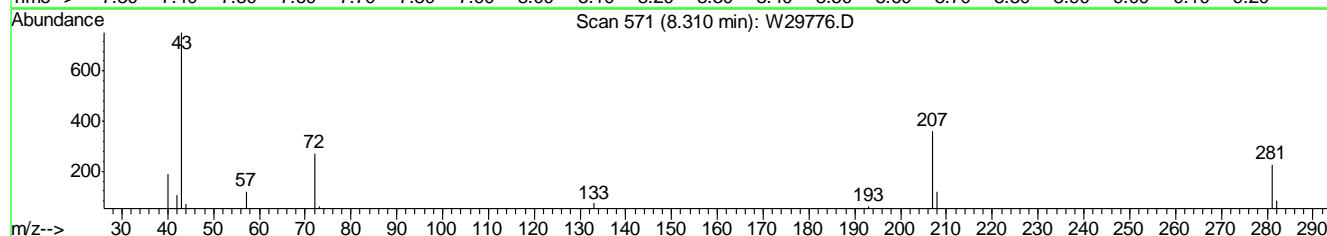
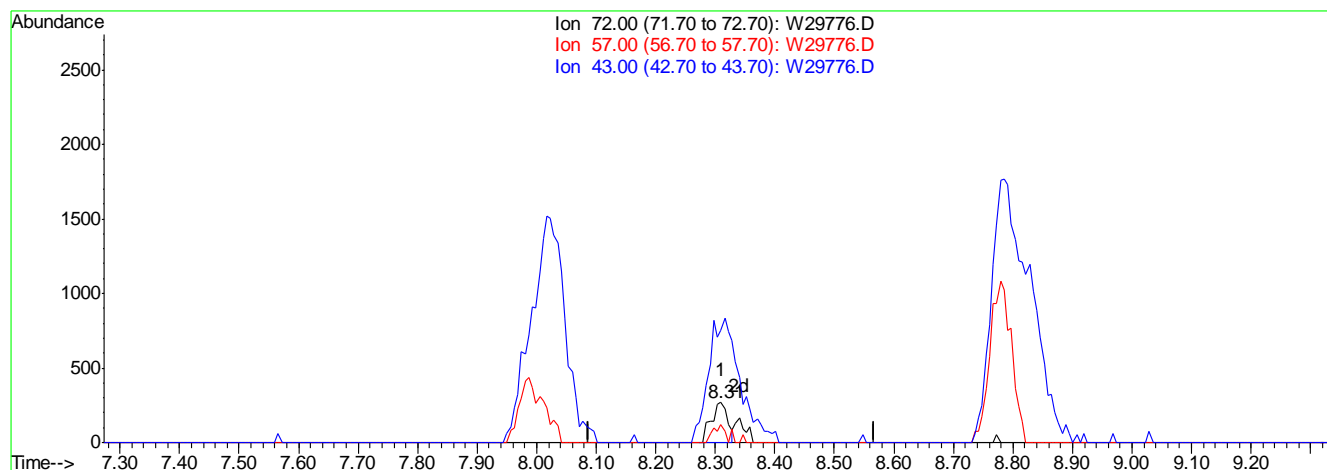
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29776.D
 Acq On : 20 Jan 2011 7:15 am
 Sample : IC1222-0.2
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:11 2011

Vial: 1
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Multiple Level Calibration



(37) METHYL ETHYL KETONE

8.31min 0.13PPBV

response 505

Ion	Exp%	Act%
72.00	100	100
57.00	33.50	43.70
43.00	358.90	279.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29776.D

Vial: 1

Acq On : 20 Jan 2011 7:15 am

Operator: YOUMINH

Sample : IC1222-0.2

Inst : MSW

Misc : MS6862,VW1222,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 24 9:12 2011

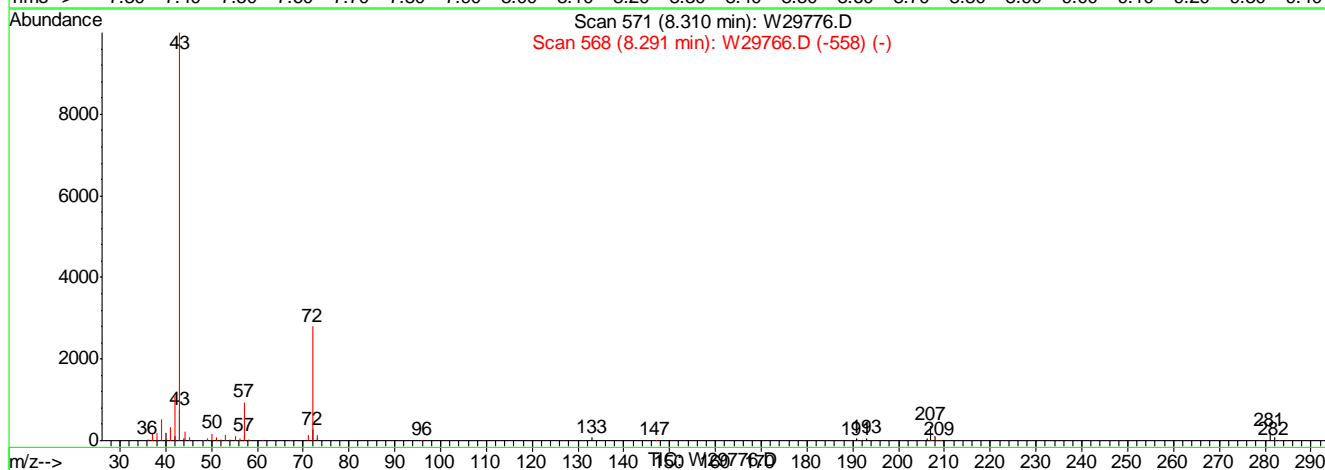
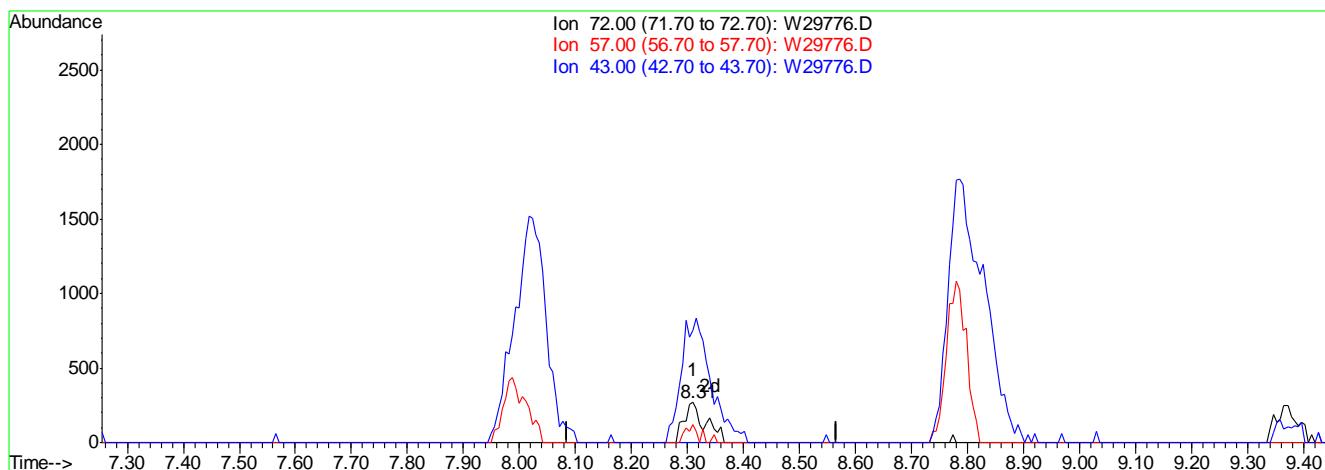
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)

Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um

Last Update : Mon Jan 24 09:04:12 2011

Response via : Multiple Level Calibration



(37) METHYL ETHYL KETONE

8.31min 0.18PPBV m

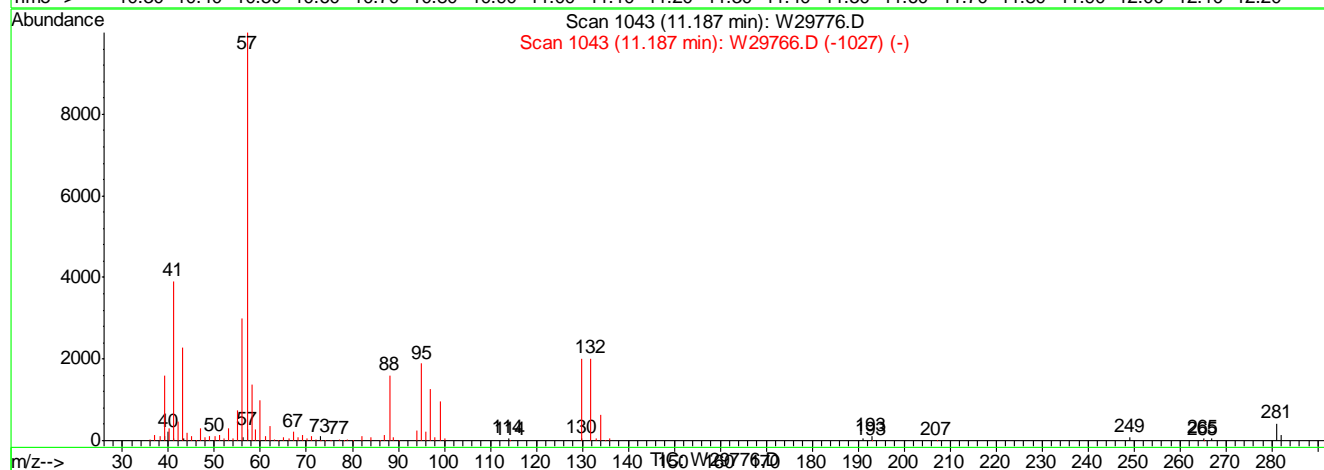
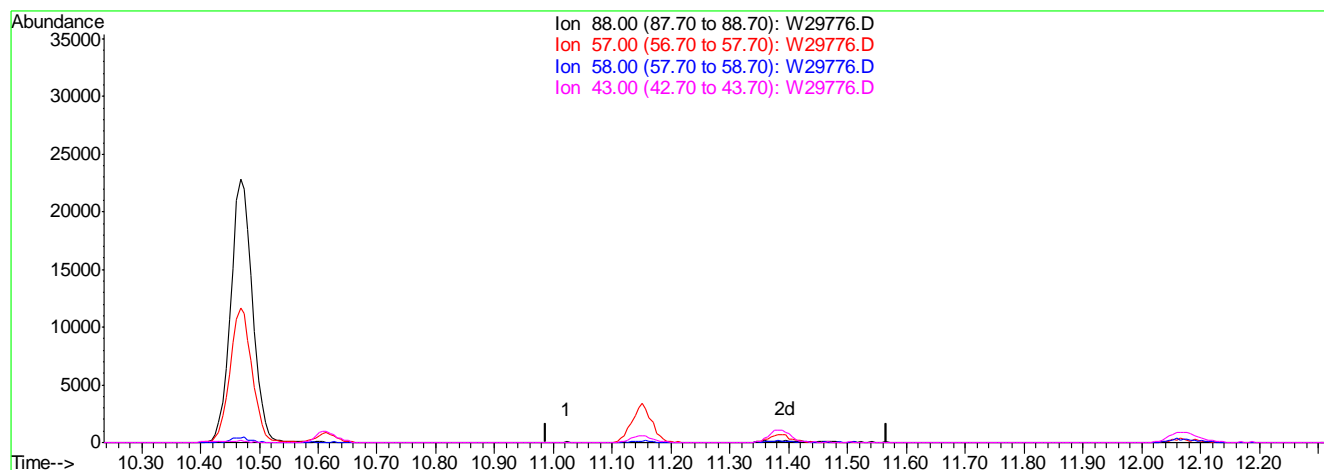
response 709

Ion	Exp%	Act%
72.00	100	100
57.00	33.50	43.70
43.00	358.90	279.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29776.D Vial: 1
Acq On : 20 Jan 2011 7:15 am Operator: YOUMINH
Sample : IC1222-0.2 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 9:13 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(54) 1,4-DIOXANE

11.19min 0.00PPBV d

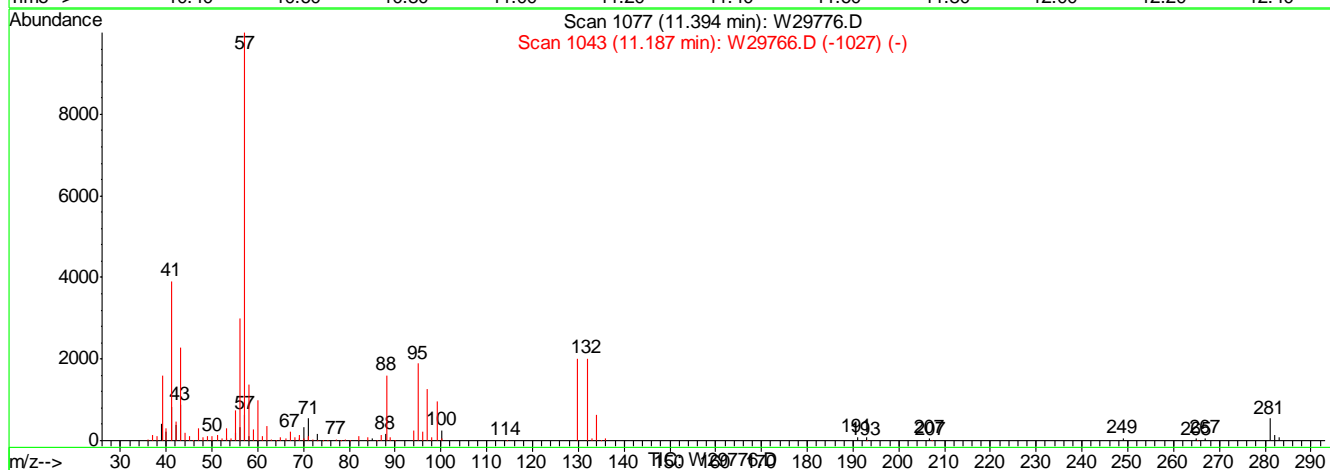
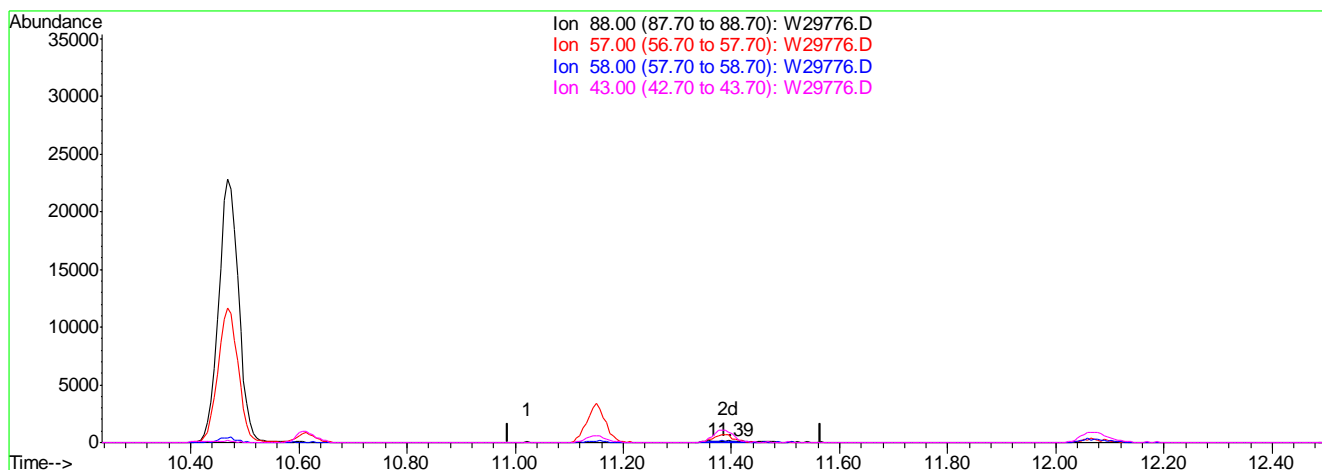
response 0

Ion	Exp%	Act%
88.00	100	0.00
57.00	622.10	0.00
58.00	85.90	0.00
43.00	142.80	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29776.D Vial: 1
Acq On : 20 Jan 2011 7:15 am Operator: YOUMINH
Sample : IC1222-0.2 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 9:13 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(54) 1,4-DIOXANE

11.39min 0.14PPBV m

response 861

Ion	Exp%	Act%
88.00	100	100
57.00	622.10	405.73#
58.00	85.90	74.52
43.00	142.80	556.05#

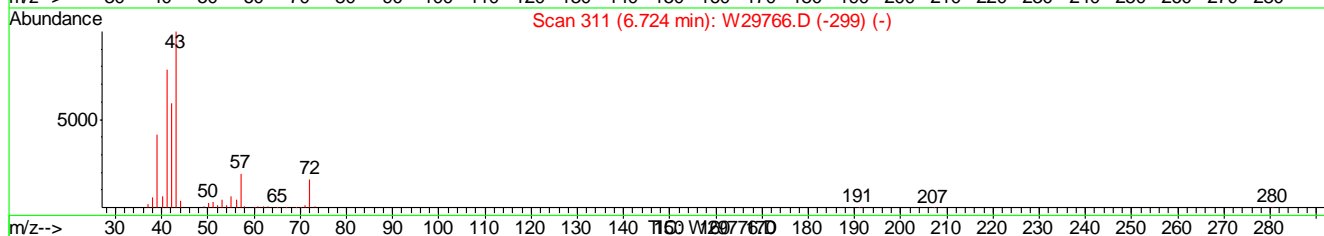
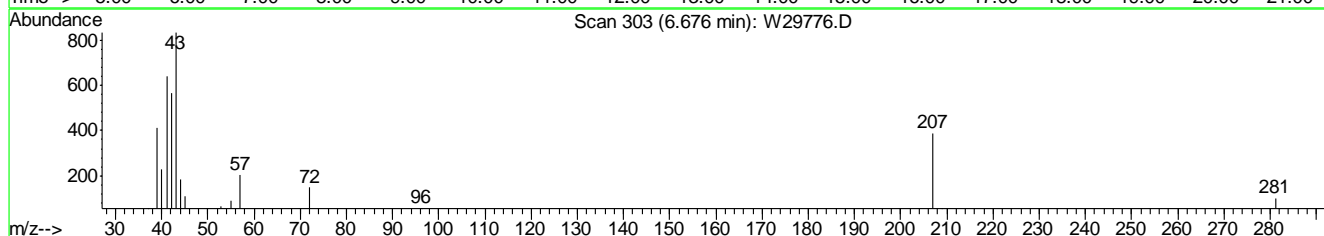
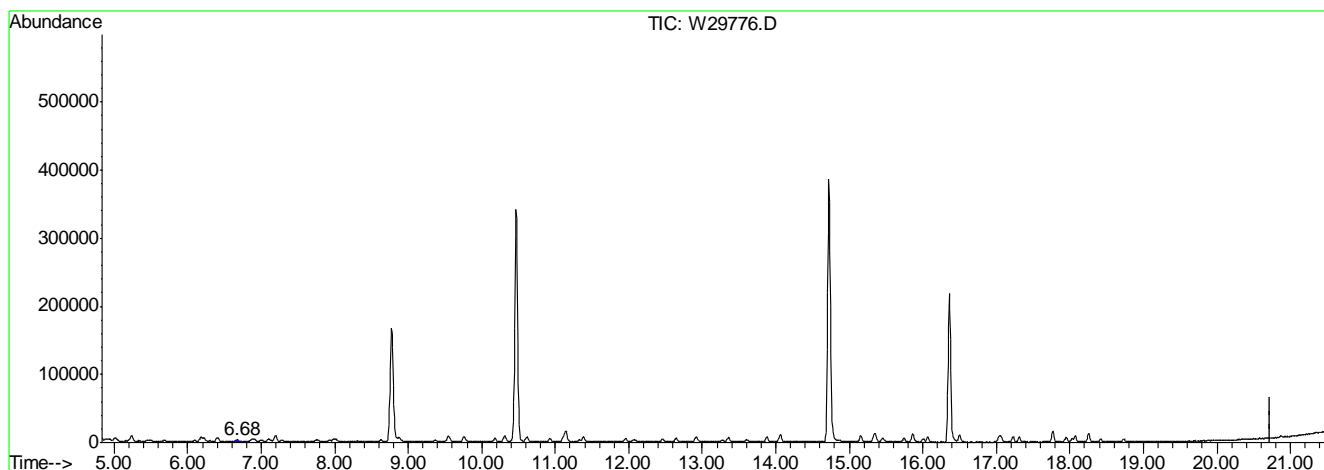
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29776.D
Acq On : 20 Jan 2011 7:15 am
Sample : IC1222-0.2
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:14 2011

Vial: 1
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.68min 0.26PPBV m

response 8346

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.26#
0.00	0.00	0.00
0.00	0.00	0.00

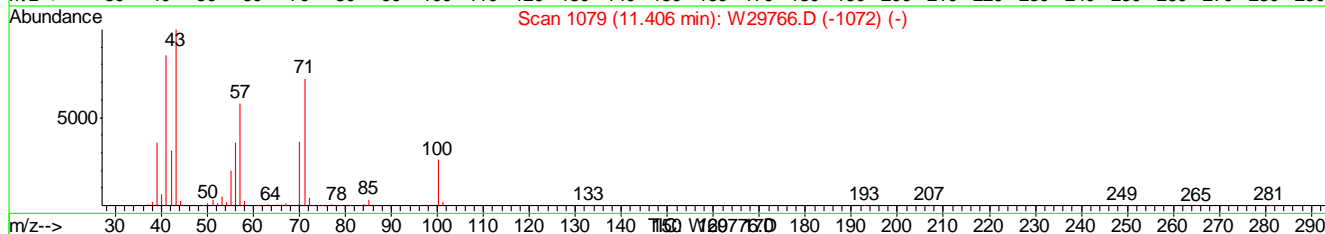
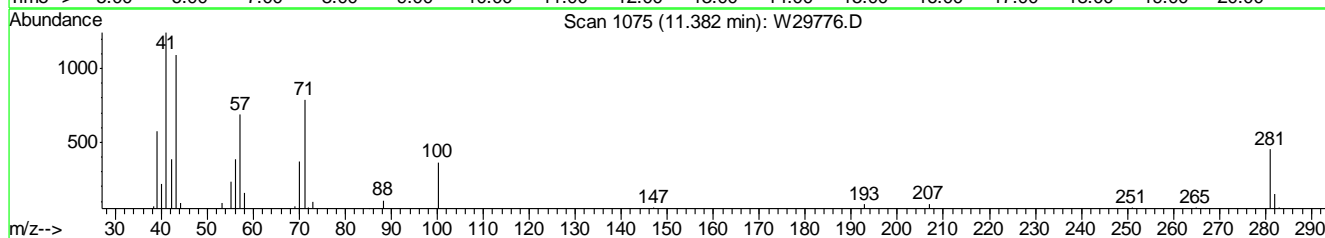
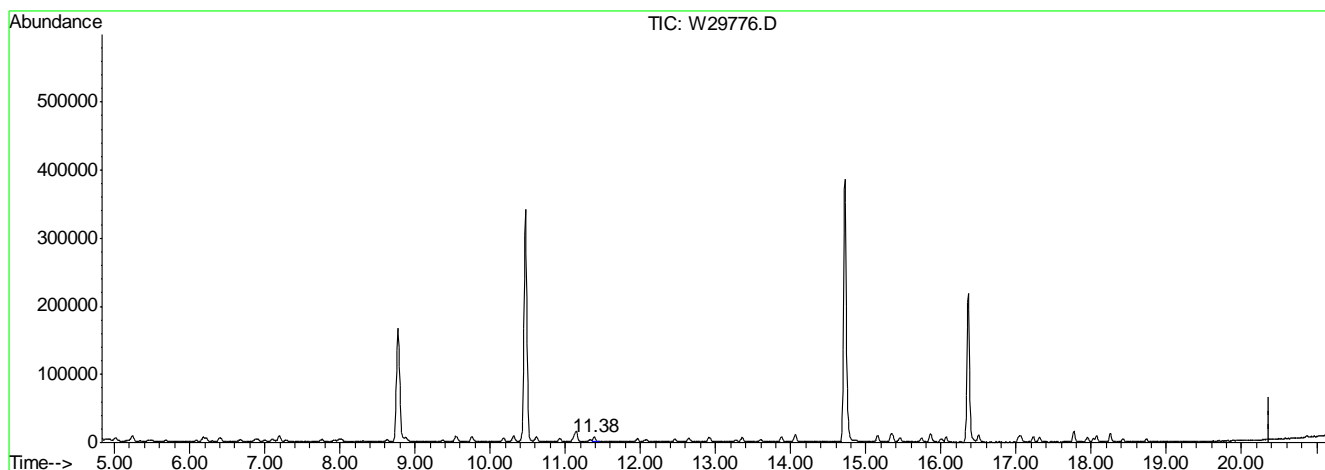
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29776.D
 Acq On : 20 Jan 2011 7:15 am
 Sample : IC1222-0.2
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:14 2011

Vial: 1
 Operator: YOU MINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.38min 0.24PPBV m

response 17004

Signal Exp% Act%

TIC 100 100

0.00 0.00 0.13#

0.00 0.00 0.00

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29777.D Vial: 4
 Acq On : 20 Jan 2011 11:23 am Operator: YOUMINH
 Sample : IC1222-0.1 Inst : MSW
 Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:11 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	82639	10.00	PPBV	-0.07
46) 1,4-DIFLUOROBENZENE	10.45	114	381399	10.00	PPBV	-0.05
63) CHLOROBENZENE-D5	14.71	82	177868	10.00	PPBV	-0.02
96) Chlorobenzene-d5(a)	14.71	82	176424	10.00	PPBV	-0.02

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE 16.36 95 100964 4.71 PPBV -0.01
 Spiked Amount 5.000 Range 65 - 128 Recovery = 94.20%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.90	67	397	0.10	PPBV	#	42
5) DICHLORODIFLUOROMETHANE	4.98	85	3386	0.10	PPBV		99
6) PROPYLENE	4.93	41	529m	0.11	PPBV		
7) FREON 114	5.21	85	2822	0.09	PPBV		96
8) CHLOROMETHANE	5.13	52	139	0.08	PPBV	#	31
9) VINYL CHLORIDE	5.32	62	665	0.09	PPBV	#	52
10) 1,3-BUTADIENE	5.43	54	604	0.10	PPBV	#	83
11) n-BUTANE	5.46	43	1213	0.11	PPBV	#	86
12) BROMOMETHANE	5.65	94	837	0.10	PPBV	#	71
13) CHLOROETHANE	5.79	64	370m	0.09	PPBV		
15) FREON 123	6.15	83	2027	0.09	PPBV	#	51
16) FREON 123A	6.18	117	1465	0.09	PPBV	#	88
17) TRICHLOROFLUOROMETHANE	6.38	101	3959	0.10	PPBV		99
18) ISOPROPYL ALCOHOL	6.49	45	1686	0.12	PPBV		94
19) ACETONE	6.27	58	416	0.12	PPBV	#	91
20) PENTANE	6.65	57	183	0.09	PPBV	#	50
21) TVHC as EQUIV PENTANE	6.65	TIC	3506m	0.09	PPBV		
22) IODOMETHANE	6.84	142	2382	0.09	PPBV		100
23) 1,1-DICHLOROETHYLENE	6.90	96	1062m	0.12	PPBV		
24) CARBON DISULFIDE	7.25	76	2331	0.09	PPBV		91
26) BROMOETHENE	6.06	106	860	0.09	PPBV	#	94
28) 3-CHLOROPROPENE	7.08	76	387	0.09	PPBV	#	70
29) FREON 113	7.18	151	1928	0.09	PPBV		96
30) TRANS-1,2-DICHLOROETHYLENE	7.75	96	1315m	0.12	PPBV		
31) TERTIARY BUTYL ALCOHOL	6.99	59	2026m	0.08	PPBV		
32) METHYL TERTIARY BUTYL ETHER	7.96	73	3079	0.08	PPBV		97
34) HEXANE	8.75	57	1327	0.10	PPBV		94
36) 1,1-DICHLOROETHANE	7.90	63	1507	0.08	PPBV		99
38) cis-1,2-DICHLOROETHYLENE	8.60	96	1166	0.11	PPBV		88
39) DI-ISOPROPYL ETHER	8.75	45	2317	0.08	PPBV	#	93
41) CHLOROFORM	8.86	83	2174	0.08	PPBV		94
42) 2,4-DIMETHYLPENTANE	9.53	57	1456	0.08	PPBV		98
43) 1,1,1-TRICHLOROETHANE	9.73	97	2791	0.08	PPBV		95
44) CARBON TETRACHLORIDE	10.29	117	3275	0.08	PPBV		98
45) 1,2-DICHLOROETHANE	9.51	62	1729	0.08	PPBV		96
47) BENZENE	10.16	78	2612	0.09	PPBV		98
48) CYCLOHEXANE	10.41	84	1640	0.12	PPBV	#	8
49) 2,3-DIMETHYLPENTANE	10.60	71	567	0.09	PPBV		91
50) TRICHLOROETHYLENE	11.13	95	1161	0.08	PPBV		90
51) 1,2-DICHLOROPROPANE	10.91	63	839	0.10	PPBV		78

(#) = qualifier out of range (m) = manual integration

W29777.D MW1222.M Mon Jan 24 09:29:19 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29777.D Vial: 4
 Acq On : 20 Jan 2011 11:23 am Operator: YOUMINH
 Sample : IC1222-0.1 Inst : MSW
 Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 24 09:05:11 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) BROMODICHLOROMETHANE	11.09	83	2481	0.09	PPBV	95
53) 2,2,4-TRIMETHYLPENTANE	11.13	57	3738	0.09	PPBV	97
56) HEPTANE	11.36	43	1309	0.10	PPBV	95
57) TVHC as EQUIV HEPTANE	11.36	TIC	6816m	0.09	PPBV	
58) METHYL ISOBUTYL KETONE	12.01	43	1286	0.07	PPBV	93
59) cis-1,3-DICHLOROPROPENE	11.94	75	1434	0.08	PPBV	82
60) TOLUENE	12.90	92	1846	0.08	PPBV	91
61) trans-1,3-DICHLOROPROPENE	12.44	75	1350	0.08	PPBV	88
65) TETRACHLOROETHYLENE	14.06	164	1376	0.10	PPBV	97
66) DIBROMOCHLOROMETHANE	13.33	129	2004	0.09	PPBV	99
67) 1,2-DIBROMOETHANE	13.58	107	1128	0.08	PPBV	98
68) OCTANE	13.86	43	1287	0.08	PPBV	87
69) 1,1,1,2-TETRACHLOROETHANE	14.74	131	1502	0.09	PPBV #	81
70) CHLOROBENZENE	14.75	112	2122	0.09	PPBV #	41
71) ETHYLBENZENE	15.14	91	3601	0.09	PPBV	98
72) m,p-XYLENE	15.34	106	2551	0.16	PPBV	96
73) o-XYLENE	15.84	106	1163	0.08	PPBV #	89
74) STYRENE	15.72	104	1538	0.07	PPBV	96
75) 1,2,3-TRICHLOROPROPANE	15.99	75	1166	0.08	PPBV #	84
76) NONANE	16.06	43	1017	0.07	PPBV #	55
77) BROMOFORM	15.44	173	1794	0.09	PPBV	98
80) ISOPROPYLBENZENE	16.50	105	3636	0.07	PPBV	97
81) 2-CHLOROTOLUENE	17.03	126	734	0.07	PPBV #	88
82) n-PROPYLBENZENE	17.06	120	751	0.06	PPBV	86
83) 4-ETHYLTOLUENE	17.22	105	2432	0.06	PPBV	98
84) 1,3,5-TRIMETHYLBENZENE	17.30	105	2359	0.07	PPBV	95

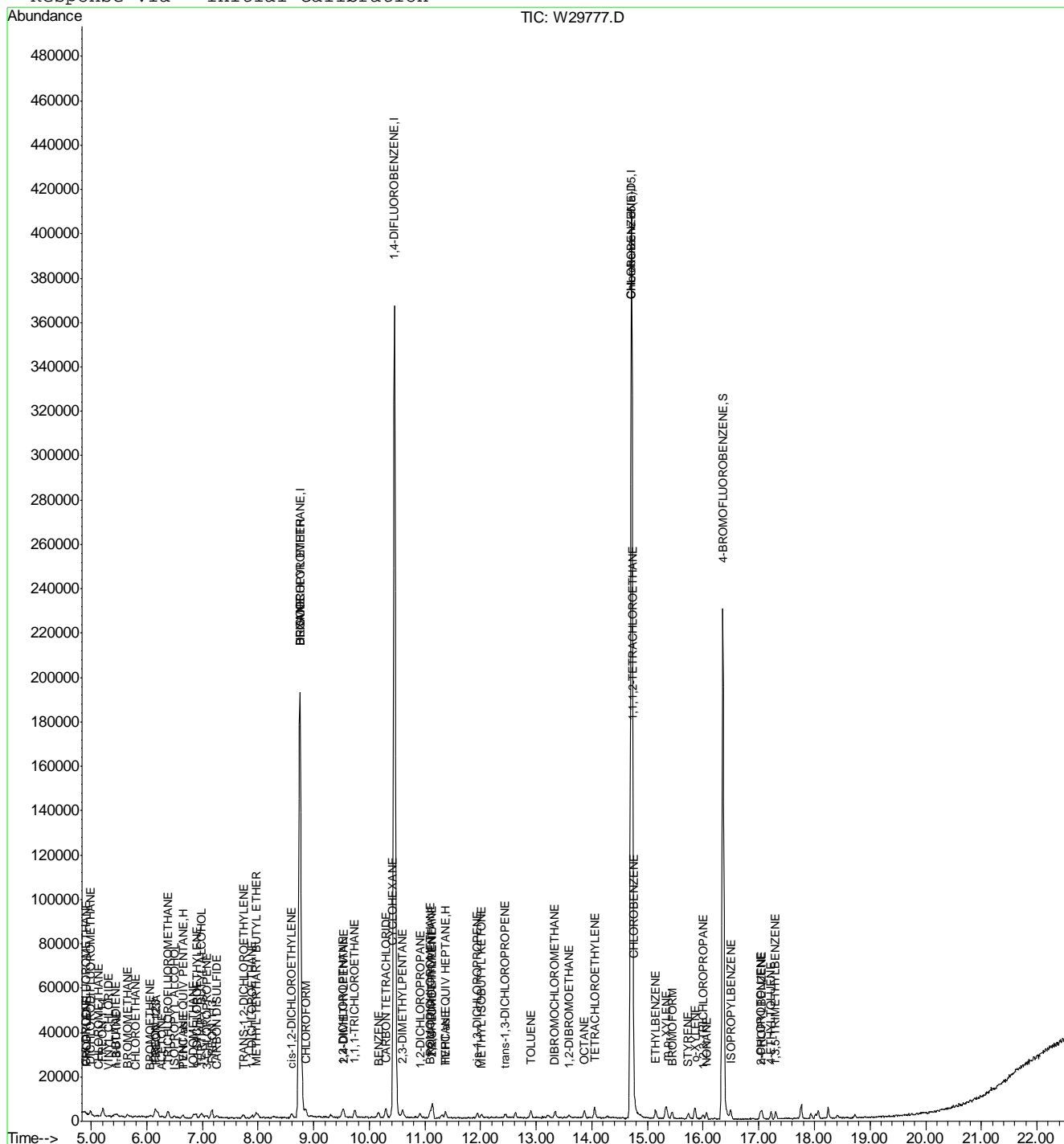
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 W29777.D MW1222.M Mon Jan 24 09:29:19 2011 MSW

(OT Reviewed)

Vial: 4
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: VW1222-IC1222 **Method:** TO-15
Lab FileID: W29777.D **Analyst approved:** 01/24/11 09:37 Youmin Hu
Injection Time: 01/20/11 11:23 **Supervisor approved:** 01/25/11 14:40 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propylene	115-07-1		4.93	Missed peak
Chloroethane	75-00-3		5.79	Poor instrument integration
1,1-Dichloroethylene	75-35-4		6.90	Poor instrument integration
Tertiary Butyl Alcohol	75-65-0		6.99	Poor instrument integration
trans-1,2-Dichloroethylene	156-60-5		7.75	Poor instrument integration

6.7.40.1

6

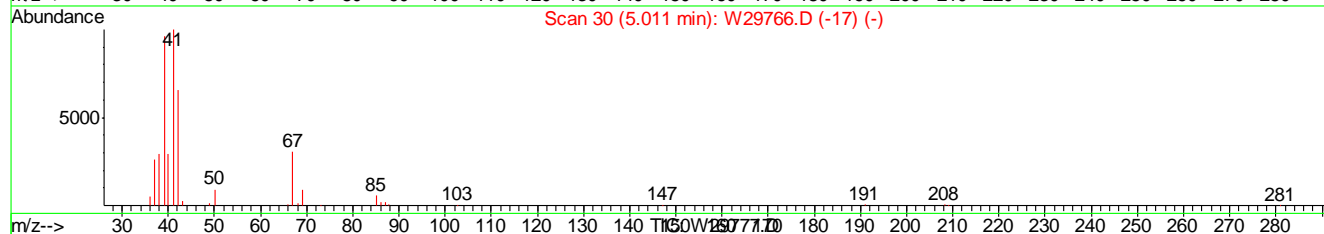
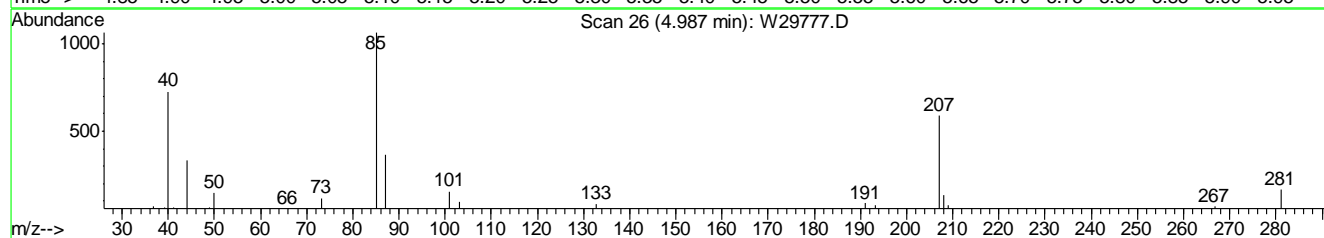
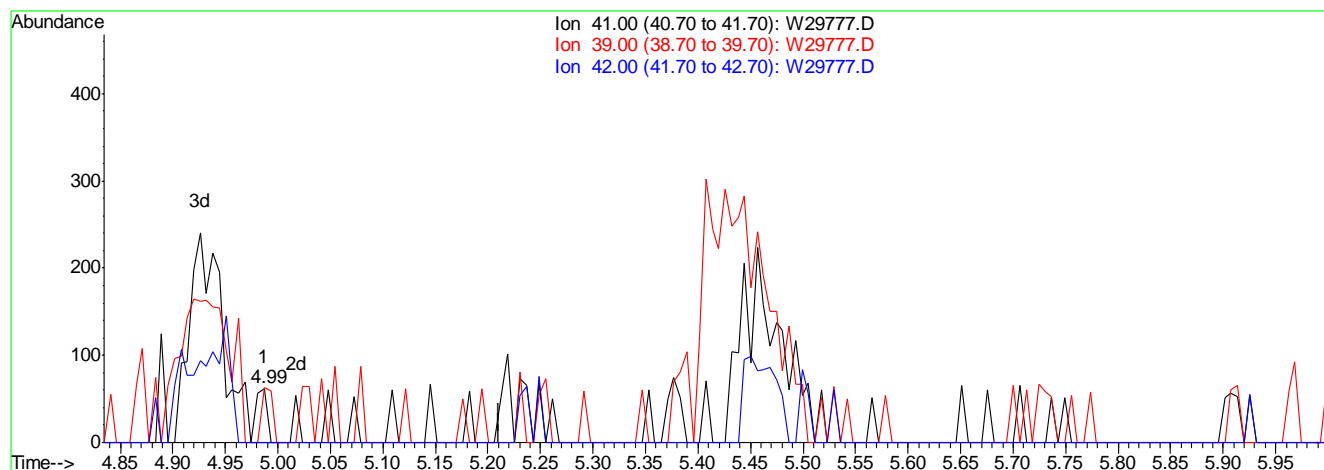
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
Acq On : 20 Jan 2011 11:23 am
Sample : IC1222-0.1
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:14 2011

Vial: 4
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(6) PROPYLENE

4.99min 0.01PPBV

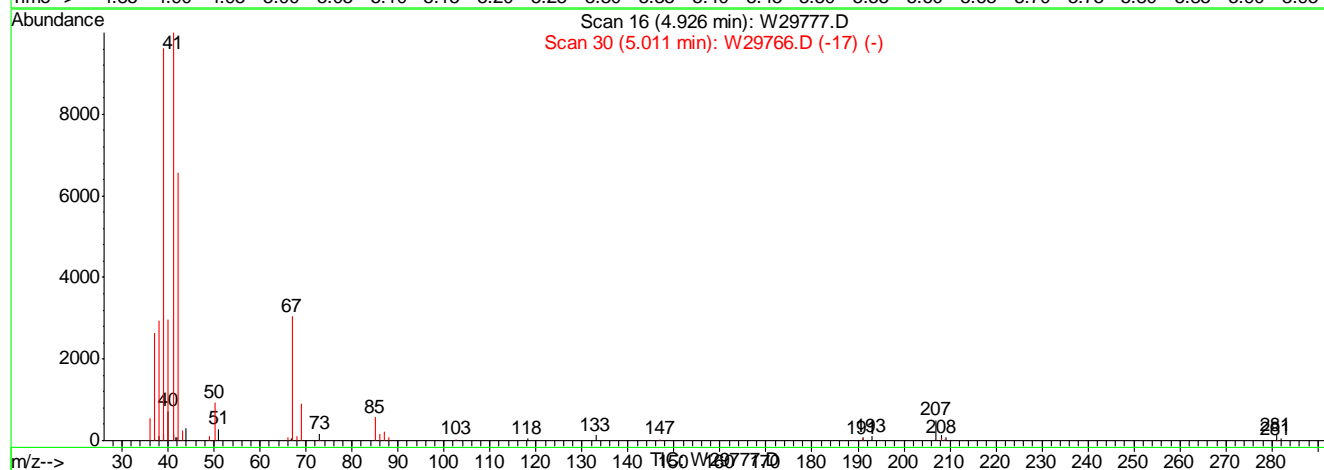
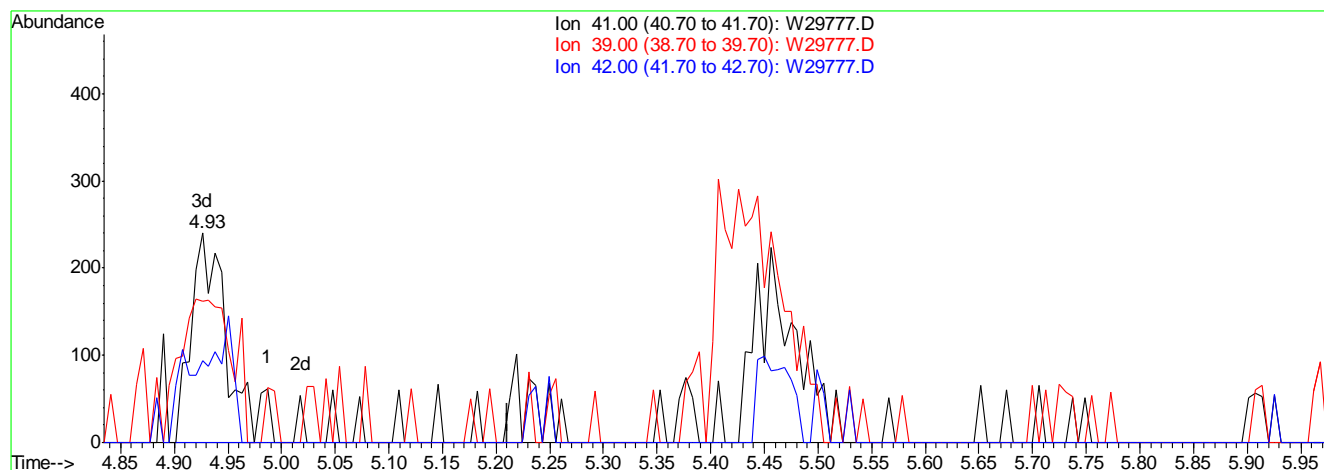
response 43

Ion	Exp%	Act%
41.00	100	100
39.00	96.30	101.61
42.00	65.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D Vial: 4
Acq On : 20 Jan 2011 11:23 am Operator: YOUMINH
Sample : IC1222-0.1 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 9:14 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(6) PROPYLENE

4.93min 0.11PPBV m

response 529

Ion	Exp%	Act%
41.00	100	100
39.00	96.30	99.39
42.00	65.70	57.67
0.00	0.00	0.00

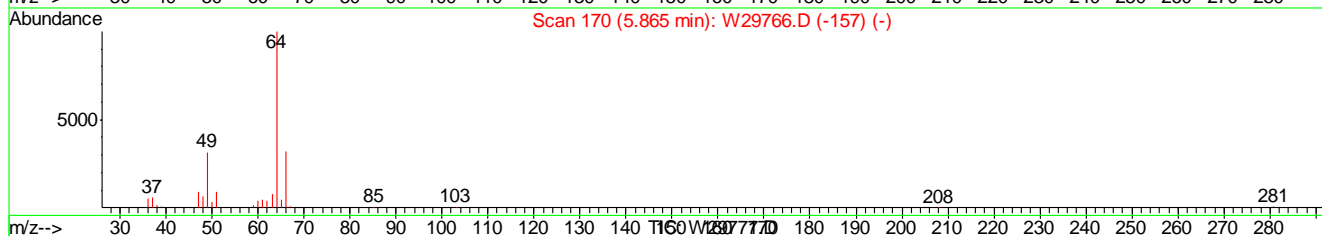
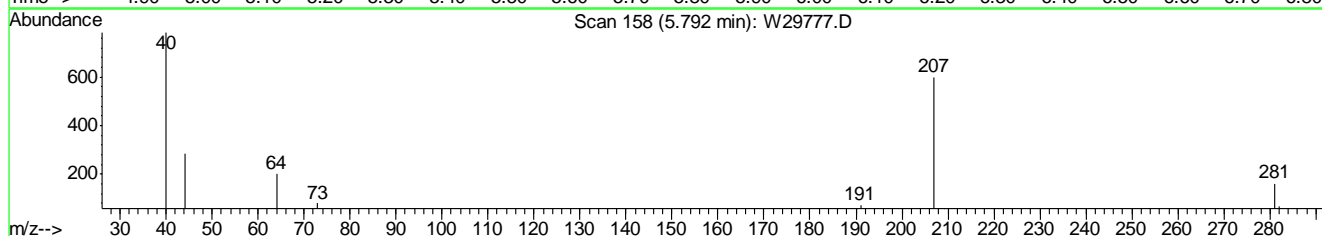
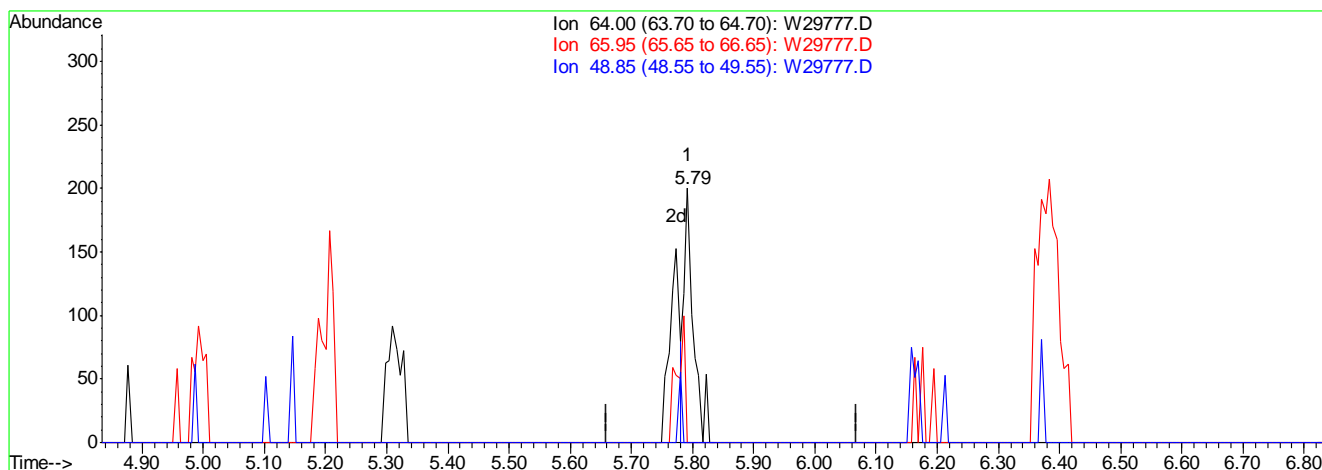
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
Acq On : 20 Jan 2011 11:23 am
Sample : IC1222-0.1
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:14 2011

Vial: 4
Operator: YOU MINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(13) CHLOROETHANE

5.79min 0.05PPBV

response 216

Ion	Exp%	Act%
64.00	100	100
65.95	32.90	44.44
48.85	32.70	9.26#
0.00	0.00	0.00

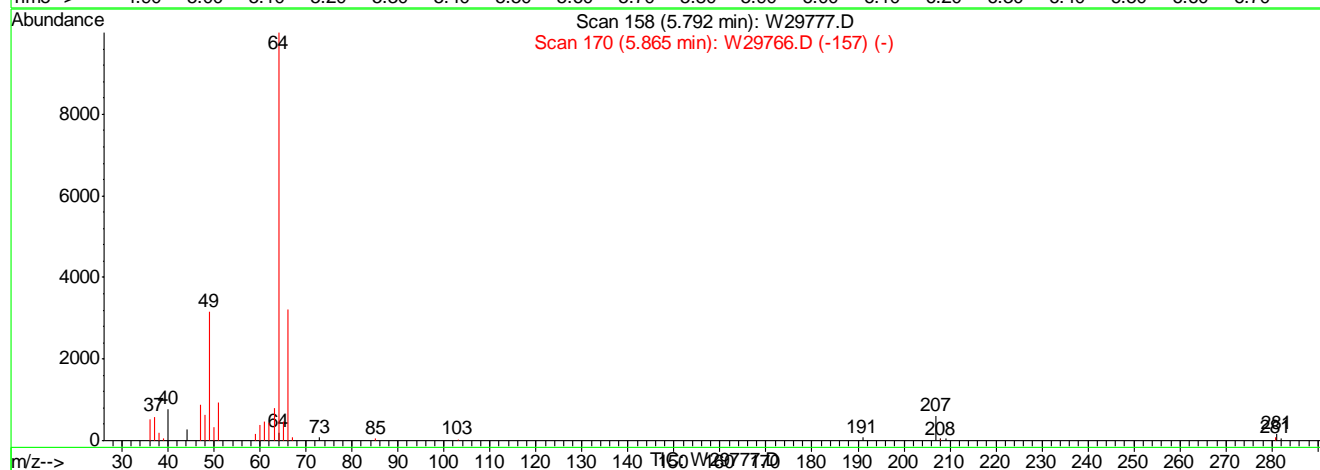
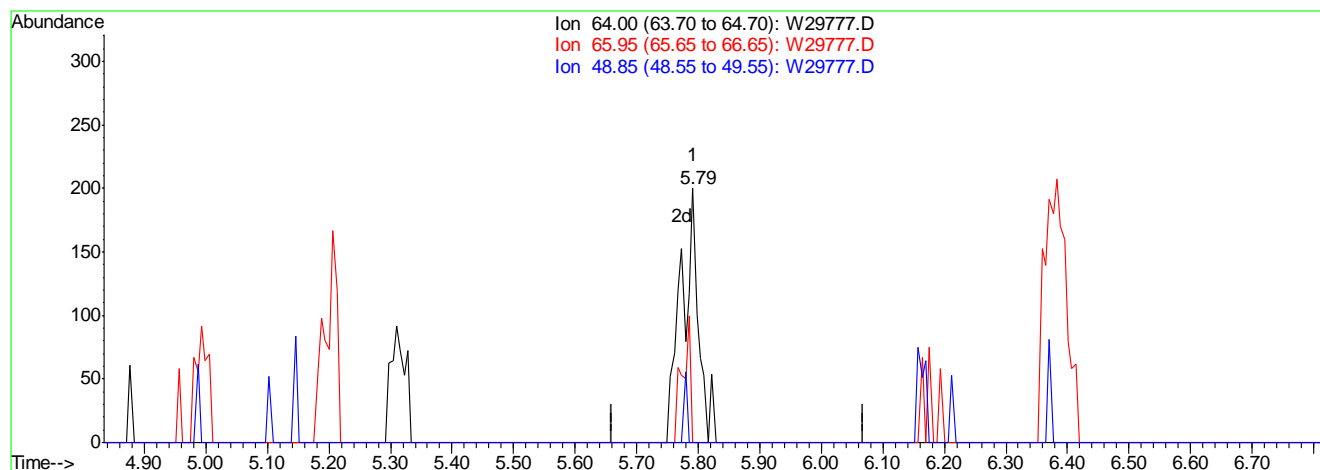
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
Acq On : 20 Jan 2011 11:23 am
Sample : IC1222-0.1
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:15 2011

Vial: 4
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(13) CHLOROETHANE

5.79min 0.09PPBV m

response 370

Ion	Exp%	Act%
64.00	100	100
65.95	32.90	25.95
48.85	32.70	5.41#
0.00	0.00	0.00

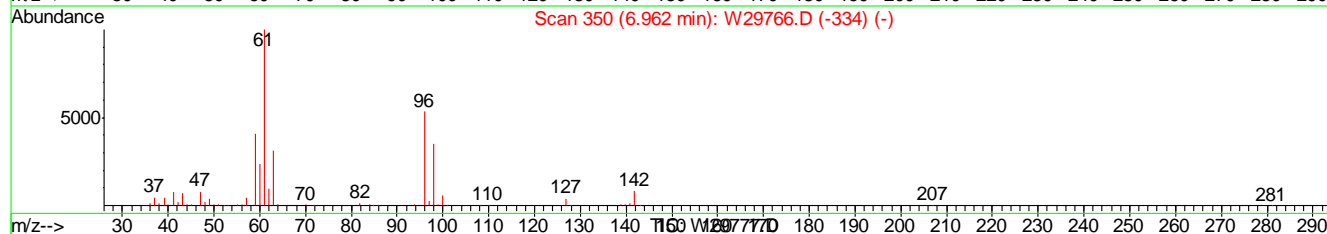
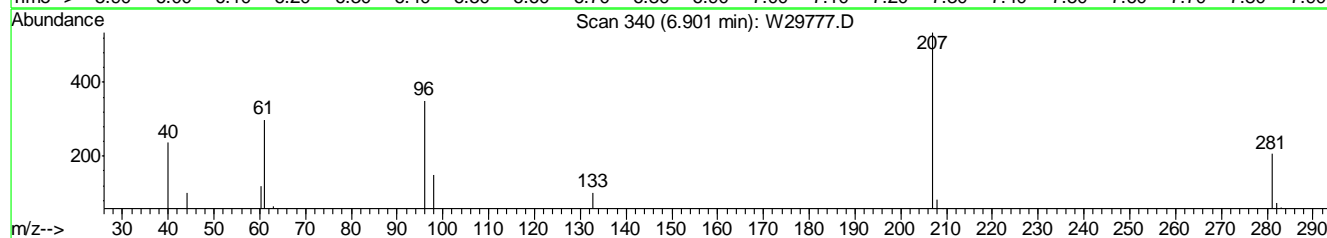
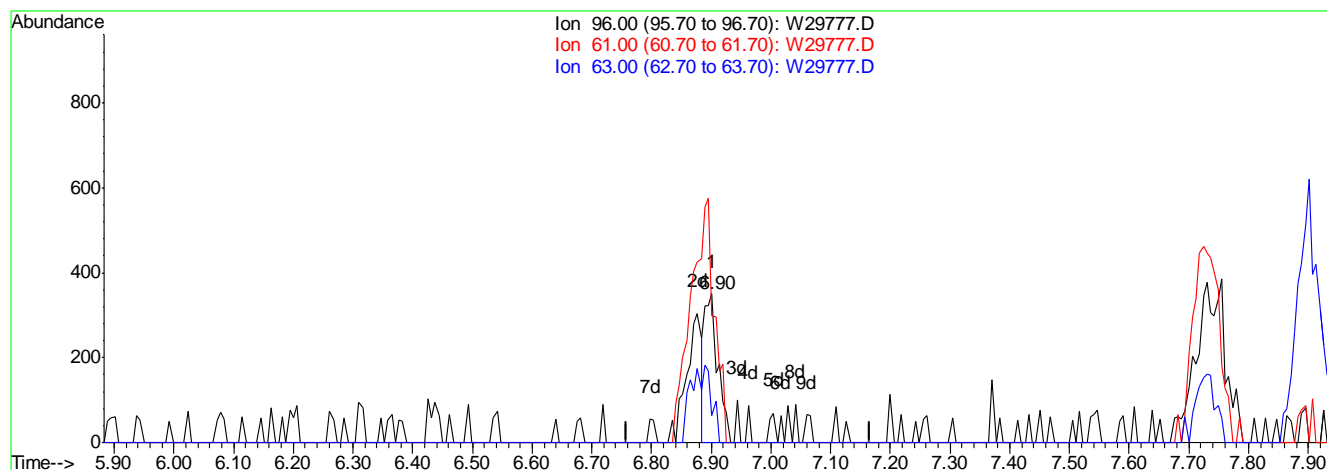
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
Acq On : 20 Jan 2011 11:23 am
Sample : IC1222-0.1
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:15 2011

Vial: 4
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(23) 1,1-DICHLOROETHYLENE

6.90min 0.06PPBV

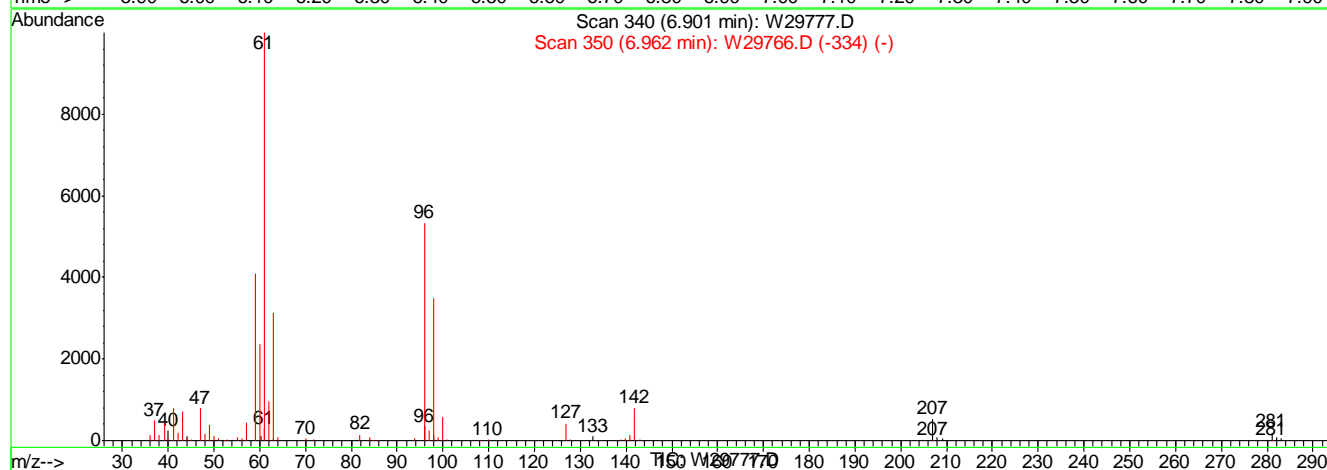
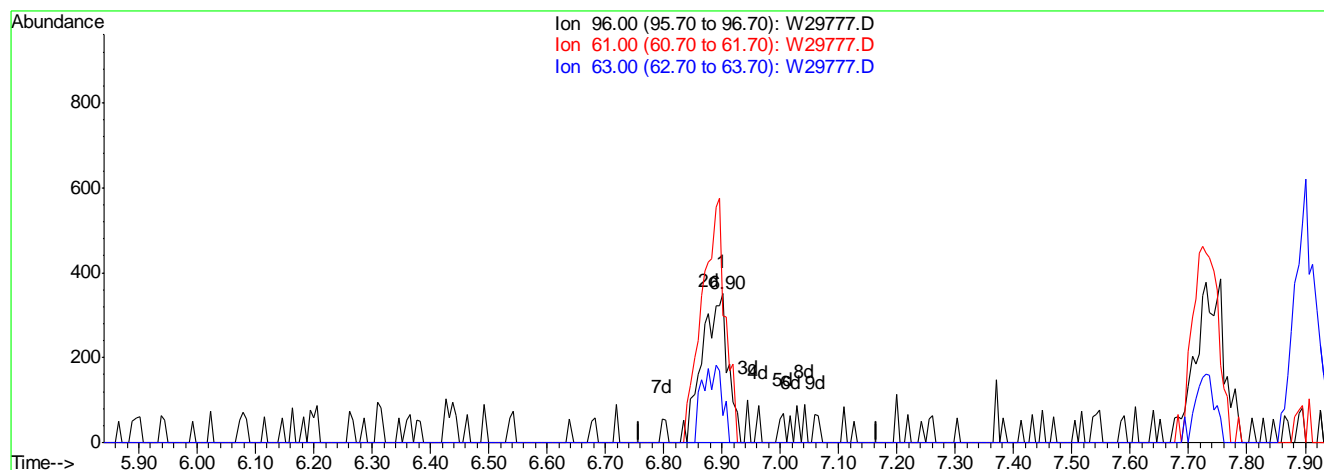
response 552

Ion	Exp%	Act%
96.00	100	100
61.00	189.80	288.41#
63.00	61.00	79.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D Vial: 4
Acq On : 20 Jan 2011 11:23 am Operator: YOUMINH
Sample : IC1222-0.1 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 9:15 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(23) 1,1-DICHLOROETHYLENE

6.90min 0.12PPBV m

response 1062

Ion	Exp%	Act%
96.00	100	100
61.00	189.80	149.91#
63.00	61.00	41.24
0.00	0.00	0.00

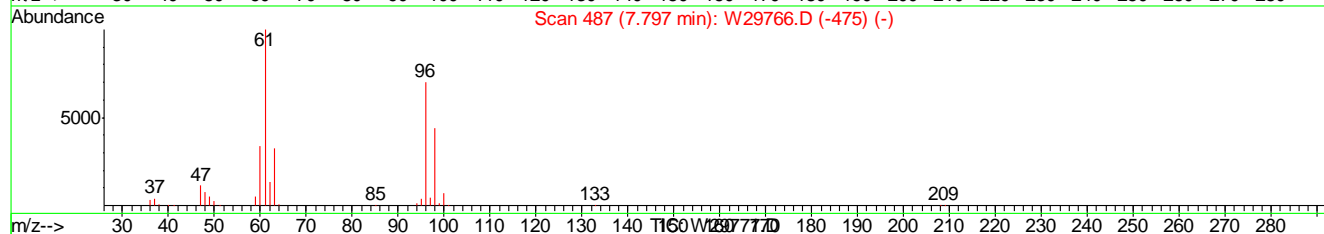
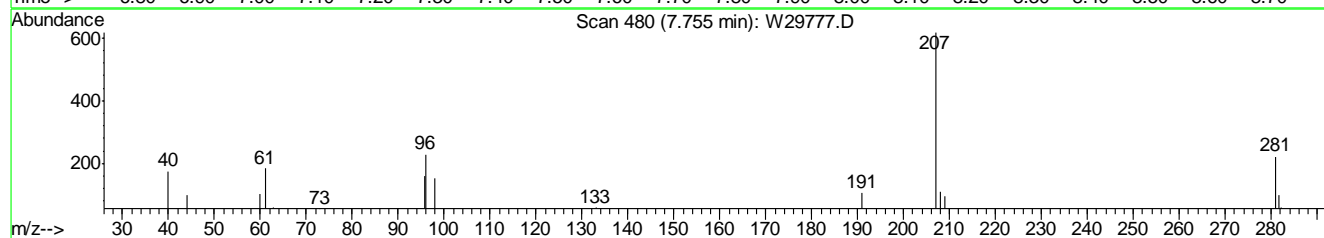
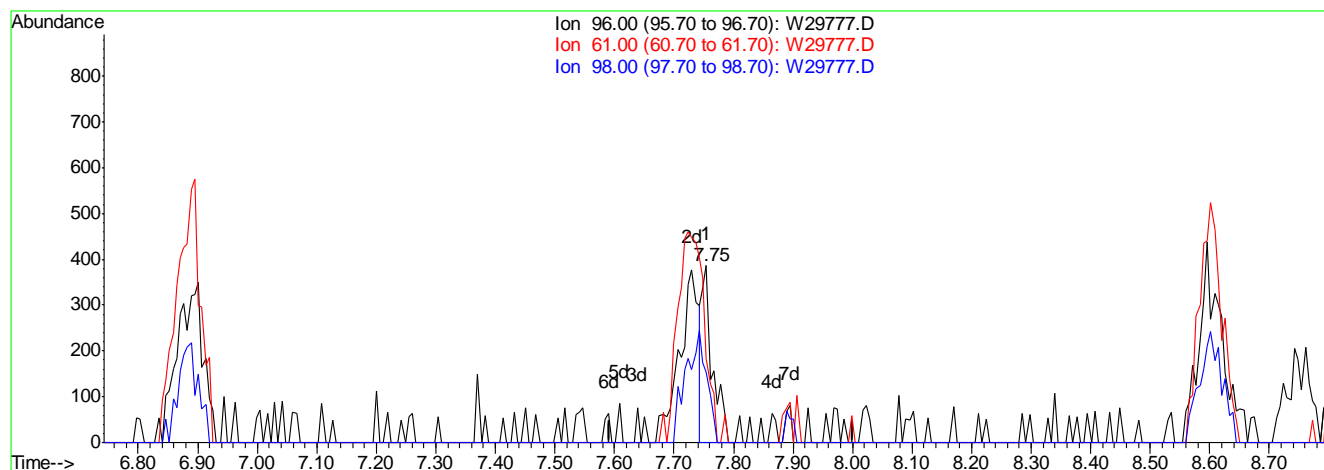
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
 Acq On : 20 Jan 2011 11:23 am
 Sample : IC1222-0.1
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:16 2011

Vial: 4
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Multiple Level Calibration



(30) TRANS-1,2-DICHLOROETHYLENE

7.75min 0.04PPBV

response 471

Ion	Exp%	Act%
96.00	100	100
61.00	143.70	0.00#
98.00	63.50	126.96#
0.00	0.00	0.00

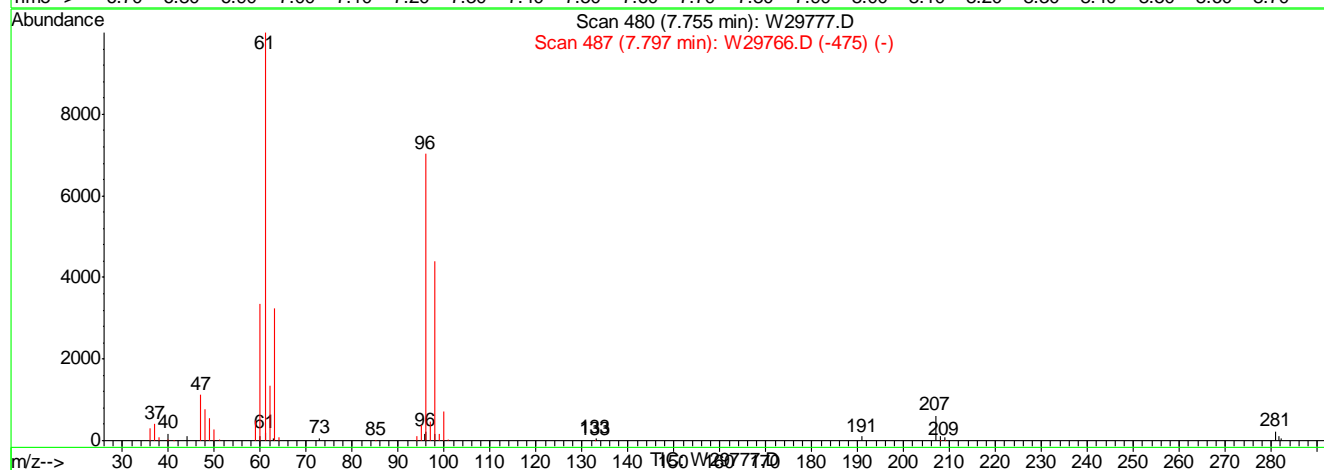
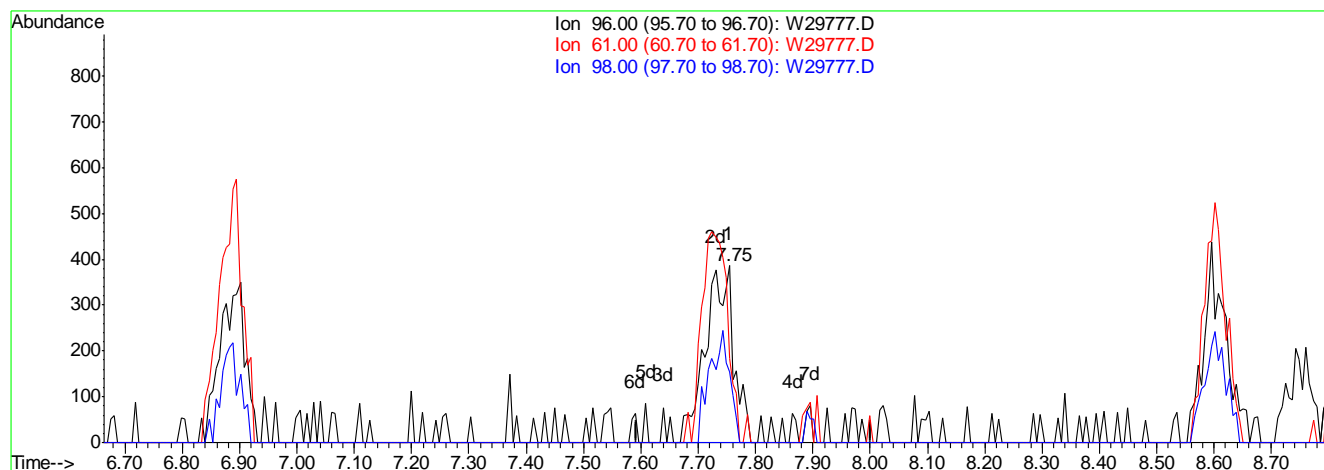
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
 Acq On : 20 Jan 2011 11:23 am
 Sample : IC1222-0.1
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:17 2011

Vial: 4
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:04:12 2011
 Response via : Multiple Level Calibration



(30) TRANS-1,2-DICHLOROETHYLENE

7.75min 0.12PPBV m

response 1315

Ion	Exp%	Act%
96.00	100	100
61.00	143.70	0.00#
98.00	63.50	45.48
0.00	0.00	0.00

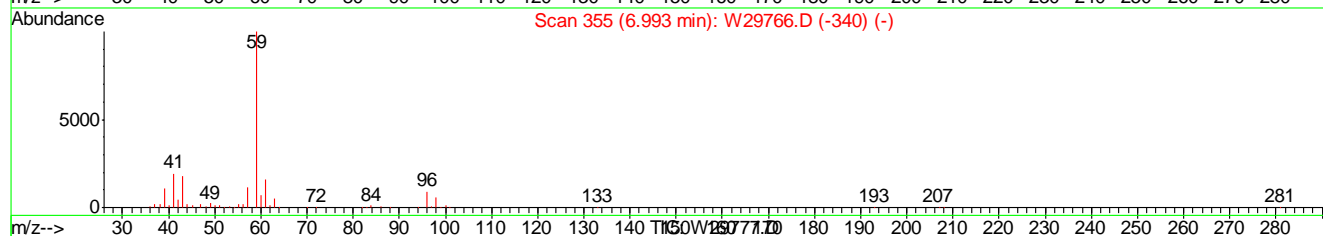
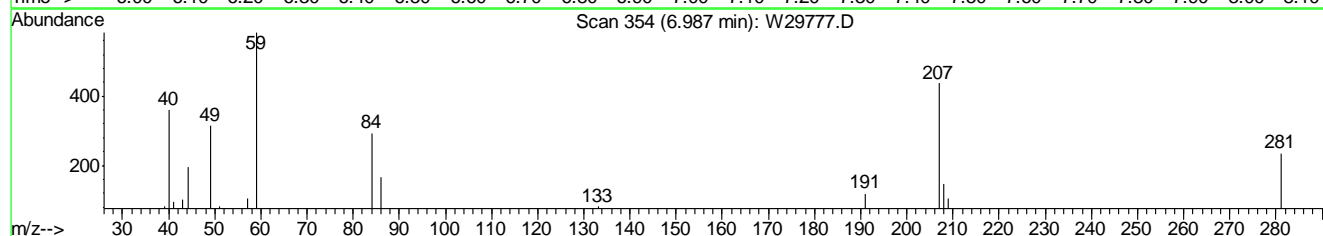
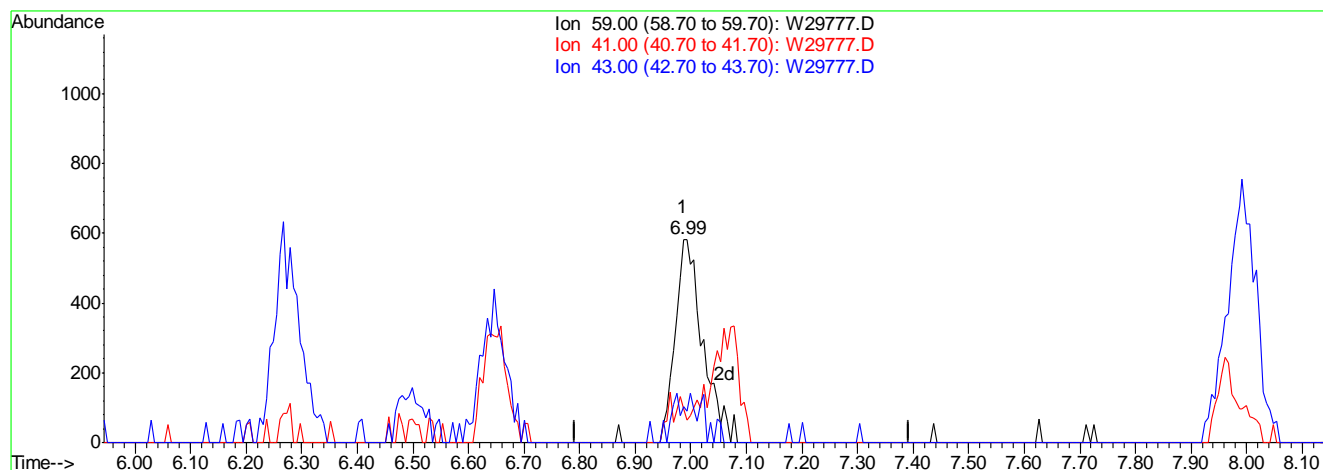
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
Acq On : 20 Jan 2011 11:23 am
Sample : IC1222-0.1
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:17 2011

Vial: 4
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Multiple Level Calibration



(31) TERTIARY BUTYL ALCOHOL

6.99min 0.07PPBV

response 1936

Ion	Exp%	Act%
59.00	100	100
41.00	19.20	7.23
43.00	18.50	8.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D

Vial: 4

Acq On : 20 Jan 2011 11:23 am

Operator: YOUMINH

Sample : IC1222-0.1

Inst : MSW

Misc : MS6862,VW1222,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 24 9:17 2011

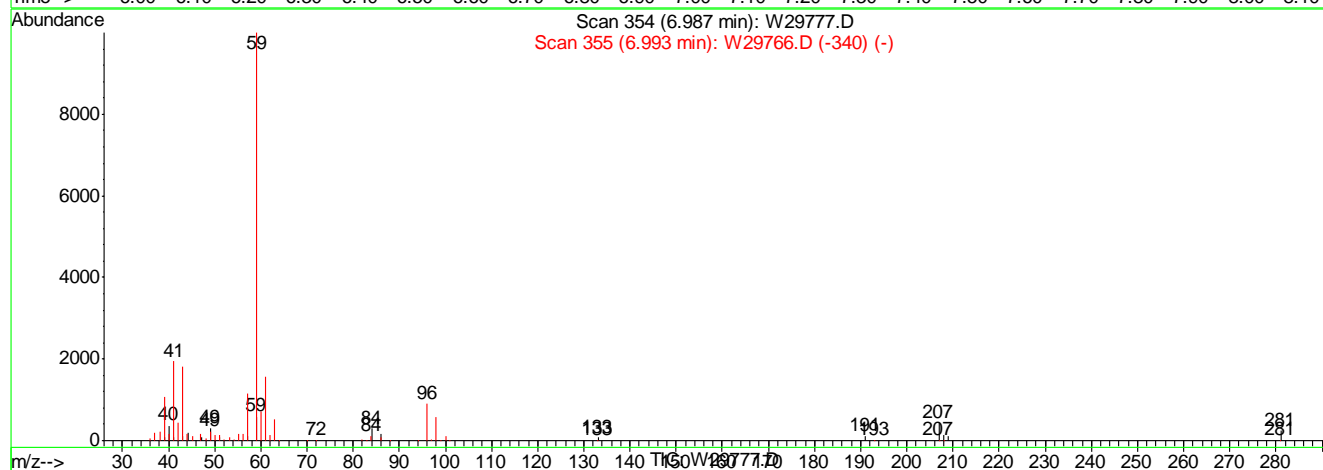
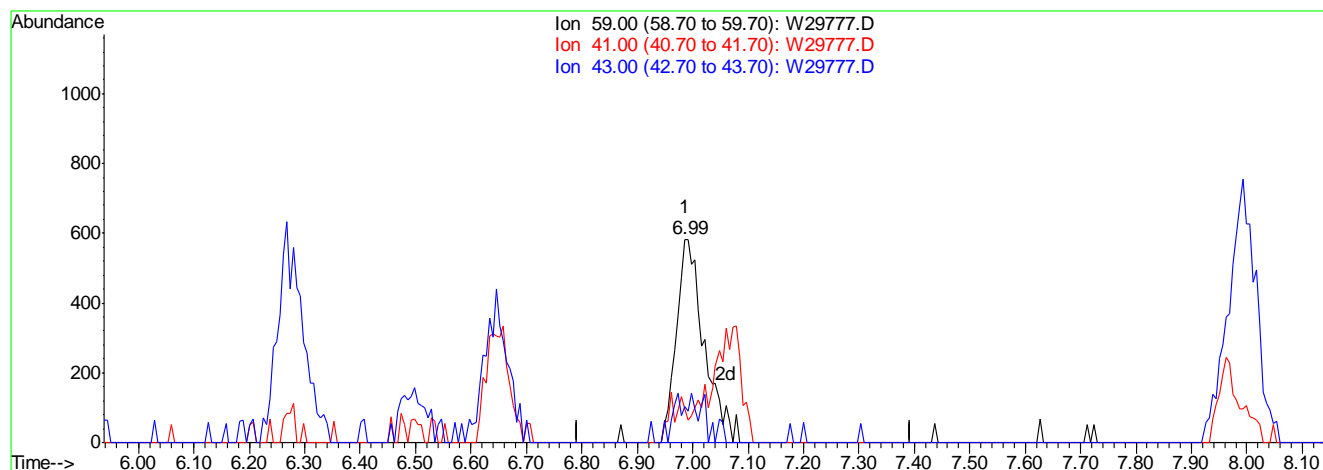
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)

Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um

Last Update : Mon Jan 24 09:04:12 2011

Response via : Multiple Level Calibration



(31) TERTIARY BUTYL ALCOHOL

6.99min 0.08PPBV m

response 2026

Ion	Exp%	Act%
59.00	100	100
41.00	19.20	6.91
43.00	18.50	8.19
0.00	0.00	0.00

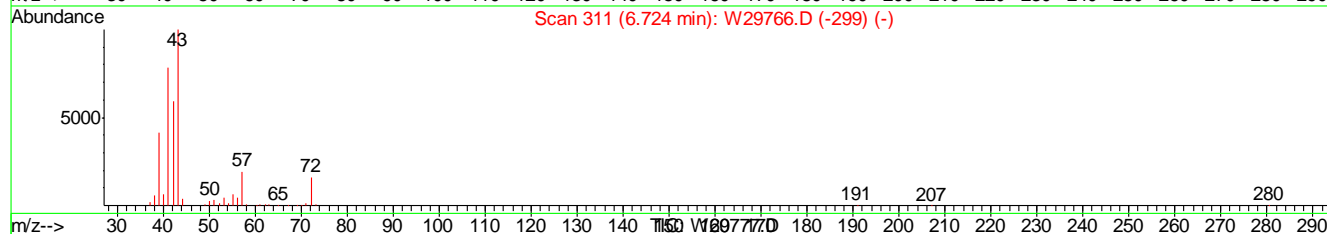
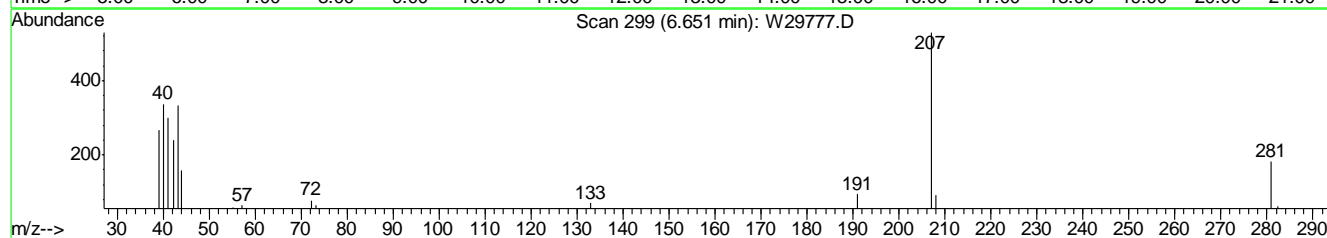
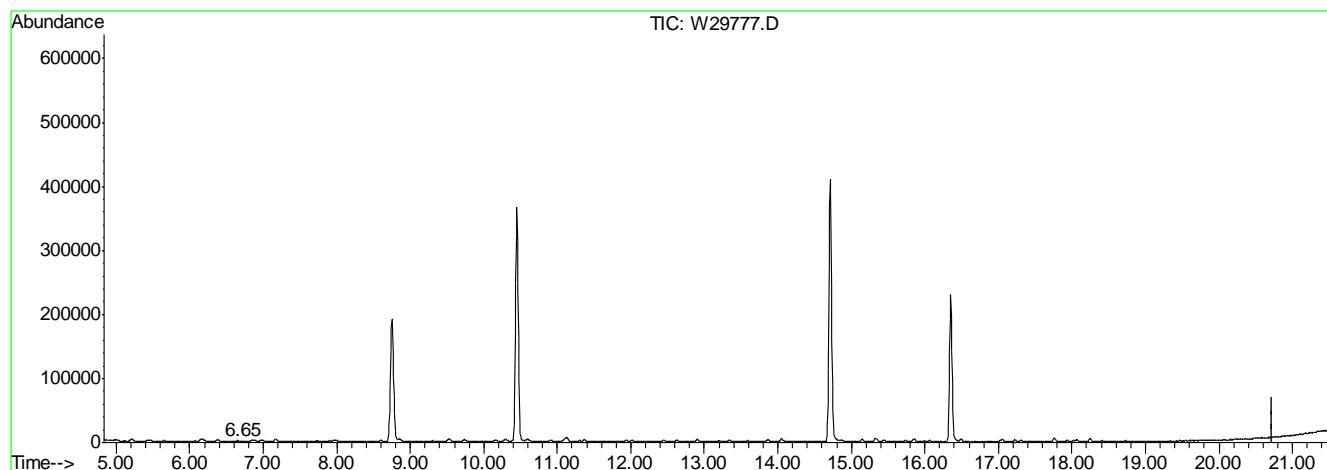
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
 Acq On : 20 Jan 2011 11:23 am
 Sample : IC1222-0.1
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:19 2011

Vial: 4
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.65min 0.09PPBV m

response 3506

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

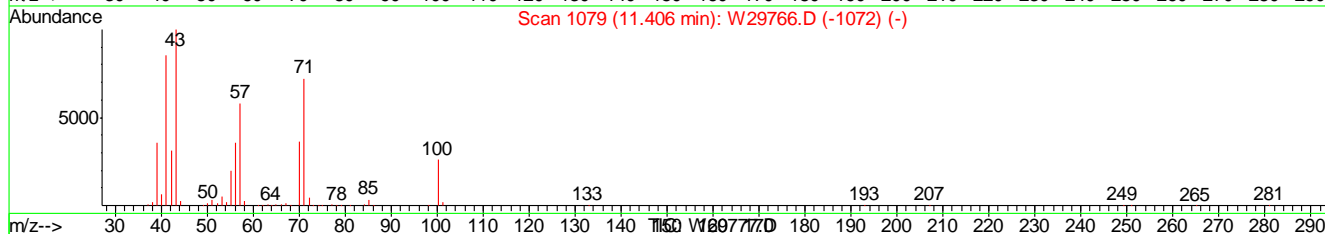
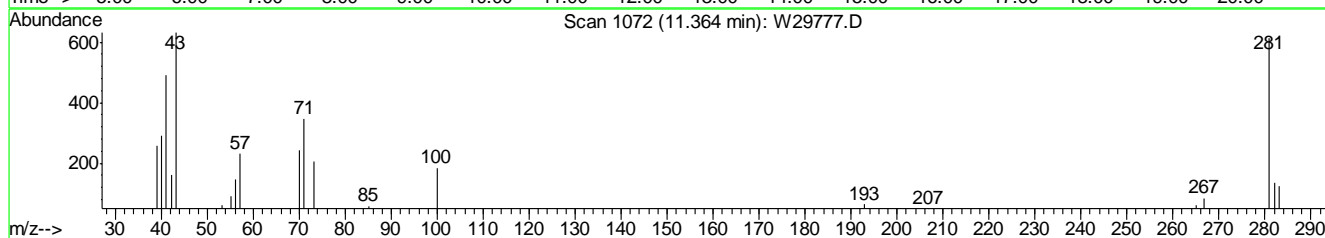
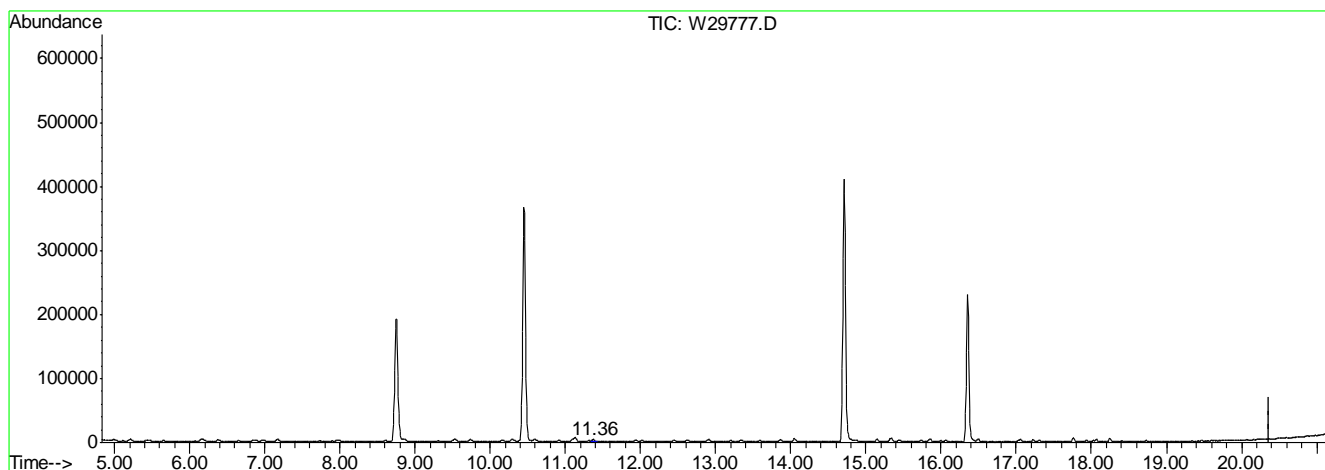
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W29777.D
 Acq On : 20 Jan 2011 11:23 am
 Sample : IC1222-0.1
 Misc : MS6862,VW1222,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Jan 24 9:19 2011

Vial: 4
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Mon Jan 24 09:23:27 2011
 Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.36min 0.09PPBV m

response 6816

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29778.D

Vial: 4

Acq On : 20 Jan 2011 12:02 pm

Operator: YOUMINH

Sample : IC1222-0.04

Inst : MSW

Misc : MS6862,VW1222,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 24 09:05:12 2011

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)

Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um

Last Update : Mon Jan 24 09:04:12 2011

Response via : Initial Calibration

DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	69266	10.00	PPBV	-0.05
46) 1,4-DIFLUOROBENZENE	10.47	114	322539	10.00	PPBV	-0.03
63) CHLOROBENZENE-D5	14.72	82	151912	10.00	PPBV	-0.01
96) Chlorobenzene-d5(a)	14.72	82	149995	10.00	PPBV	-0.01

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE	16.36	95	85336	4.66	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	93.20%

Target Compounds

Qvalue

7) FREON 114	5.23	85	1258	0.05	PPBV	99
10) 1,3-BUTADIENE	5.45	54	179	0.04	PPBV #	67
15) FREON 123	6.18	83	847	0.05	PPBV #	98
16) FREON 123A	6.22	117	717	0.05	PPBV #	92
22) IODOMETHANE	6.86	142	987	0.04	PPBV	88
24) CARBON DISULFIDE	7.28	76	1046	0.05	PPBV	79
26) BROMOETHENE	6.08	106	357	0.04	PPBV #	93
29) FREON 113	7.19	151	931	0.05	PPBV	90
34) HEXANE	8.78	57	590	0.05	PPBV	96
36) 1,1-DICHLOROETHANE	7.92	63	722	0.05	PPBV	81
39) DI-ISOPROPYL ETHER	8.79	45	1168	0.05	PPBV #	76
41) CHLOROFORM	8.86	83	1177	0.05	PPBV #	76
42) 2,4-DIMETHYLPENTANE	9.55	57	565	0.04	PPBV #	92
43) 1,1,1-TRICHLOROETHANE	9.75	97	1555	0.05	PPBV	95
44) CARBON TETRACHLORIDE	10.30	117	1670	0.05	PPBV	95
45) 1,2-DICHLOROETHANE	9.53	62	764	0.04	PPBV #	91
47) BENZENE	10.18	78	1178	0.05	PPBV	90
50) TRICHLOROETHYLENE	11.13	95	612	0.05	PPBV	91
51) 1,2-DICHLOROPROPANE	10.92	63	307	0.04	PPBV #	74
52) BROMODICHLOROMETHANE	11.11	83	1088	0.05	PPBV	100
53) 2,2,4-TRIMETHYLPENTANE	11.15	57	1768	0.05	PPBV #	58
56) HEPTANE	11.38	43	608	0.05	PPBV	86
59) cis-1,3-DICHLOROPROPENE	11.96	75	666	0.04	PPBV #	70
60) TOLUENE	12.92	92	789	0.04	PPBV	88
61) trans-1,3-DICHLOROPROPENE	12.46	75	587	0.04	PPBV #	82
62) 1,1,2-TRICHLOROETHANE	12.65	83	281	0.04	PPBV #	70
65) TETRACHLOROETHYLENE	14.06	164	655	0.06	PPBV #	75
66) DIBROMOCHLOROMETHANE	13.36	129	879	0.05	PPBV	92
67) 1,2-DIBROMOETHANE	13.59	107	540	0.04	PPBV #	86
68) OCTANE	13.88	43	652	0.05	PPBV #	89
69) 1,1,1,2-TETRACHLOROETHANE	14.75	131	674	0.05	PPBV #	2
70) CHLOROBENZENE	14.76	112	1066	0.05	PPBV #	46
71) ETHYLBENZENE	15.16	91	1575	0.04	PPBV	99
72) m,p-XYLENE	15.34	106	1198	0.09	PPBV #	75
73) o-XYLENE	15.85	106	550	0.04	PPBV #	81
74) STYRENE	15.74	104	657	0.03	PPBV #	73
75) 1,2,3-TRICHLOROPROPANE	16.00	75	557	0.04	PPBV #	88
76) NONANE	16.07	43	458	0.04	PPBV #	83
77) BROMOFORM	15.45	173	845	0.05	PPBV	91
80) ISOPROPYLBENZENE	16.50	105	1722	0.04	PPBV	97

(#)=qualifier out of range (m)=manual integration

W29778.D MW1222.M

Mon Jan 24 09:29:21 2011

MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29778.D Vial: 4
Acq On : 20 Jan 2011 12:02 pm Operator: YOUMINH
Sample : IC1222-0.04 Inst : MSW
Misc : MS6862,VW1222,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 24 09:05:12 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:04:12 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
W29778.D MW1222.M Mon Jan 24 09:29:21 2011 MSW

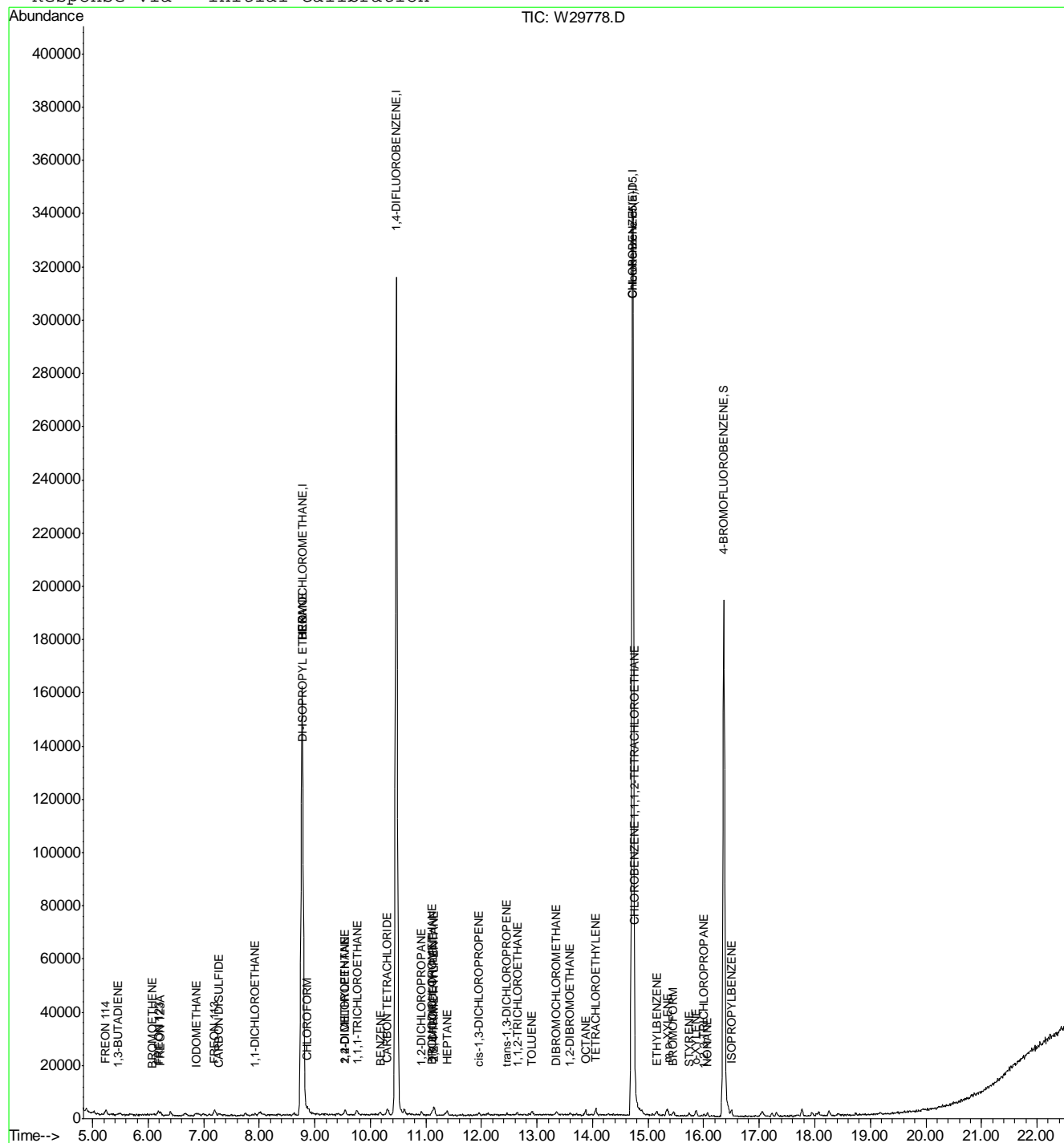
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W29778.D
Acq On : 20 Jan 2011 12:02 pm
Sample : IC1222-0.04
Misc : MS6862,VW1222,,,,,1
MS Integration Params: rteint.p
Quant Time: Jan 24 9:23 2011

Vial: 4
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Mon Jan 24 09:23:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\w\VW1223-24\
Data File : W29783.D
Acq On : 20 Jan 2011 9:00 pm
Operator : YOU MINH
Sample : ICV1222-10
Misc : MS6862,VW1223,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 11:53:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 09:39:52 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.779	128	78977	10.00	PPBV	-0.04
46) 1,4-DIFLUOROBENZENE	10.474	114	379817	10.00	PPBV	-0.02
63) CHLOROBENZENE-D5	14.729	82	201818	10.00	PPBV	0.00
96) Chlorobenzene-d5(a)	14.729	82	201736	10.00	PPBV	0.00

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE	16.369	95	119675	5.18	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	103.60%

Target Compounds

						Qvalue
3) FREON 152A	4.883	65	35939	8.07	PPBV	100
4) CHLORODIFLUOROMETHANE	4.926	67	34679	9.16	PPBV	98
5) DICHLORODIFLUOROMETHANE	5.017	85	321384	9.53	PPBV	100
6) PROPYLENE	4.950	41	40381	8.60	PPBV	98
7) FREON 114	5.231	85	281027	9.28	PPBV	100
8) CHLOROMETHANE	5.164	52	16703	9.97	PPBV	88
9) VINYL CHLORIDE	5.341	62	72622	9.88	PPBV	99
10) 1,3-BUTADIENE	5.450	54	55053	9.59	PPBV	98
11) n-BUTANE	5.493	43	99231	9.06	PPBV #	99
12) BROMOMETHANE	5.676	94	81118	9.54	PPBV	99
13) CHLOROETHANE	5.804	64	40967	10.11	PPBV	99
14) ACROLEIN	6.170	56	24441	10.03	PPBV	99
15) FREON 123	6.176	83	206122	9.60	PPBV #	100
16) FREON 123A	6.218	117	155235	9.39	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.407	101	366945	9.49	PPBV	99
18) ISOPROPYL ALCOHOL	6.481	45	126046	8.85	PPBV	100
19) ACETONE	6.273	58	30001	8.86	PPBV	98
20) PENTANE	6.670	57	19570	10.09	PPBV	99
21) TVHC as EQUIV PENTANE	6.670	TIC	364170m	9.59	PPBV	
22) IODOMETHANE	6.865	142	248688	9.71	PPBV	97
23) 1,1-DICHLOROETHYLENE	6.907	96	82727	9.24	PPBV	99
24) CARBON DISULFIDE	7.273	76	225938	9.32	PPBV	99
25) ETHANOL	5.920	45	22638	8.44	PPBV	94
26) BROMOETHENE	6.084	106	88904	9.55	PPBV	96
27) METHYLENE CHLORIDE	6.999	84	69920	9.14	PPBV	99
28) 3-CHLOROPROPENE	7.090	76	38037	9.69	PPBV	98
29) FREON 113	7.194	151	186876	9.17	PPBV	100
30) TRANS-1,2-DICHLOROETHY...	7.755	96	96457	9.25	PPBV	98
31) TERTIARY BUTYL ALCOHOL	6.956	59	223879	9.29	PPBV	99
32) METHYL TERTIARY BUTYL ...	7.968	73	311056	9.45	PPBV	100
33) TETRAHYDROFURAN	9.267	72	38979	9.72	PPBV	100
34) HEXANE	8.779	57	121372	9.04	PPBV	98
35) VINYL ACETATE	8.017	86	23730	9.88	PPBV #	90
36) 1,1-DICHLOROETHANE	7.925	63	161087	9.46	PPBV	100
37) METHYL ETHYL KETONE	8.255	72	38821	9.65	PPBV	99
38) cis-1,2-DICHLOROETHYLENE	8.627	96	98582	9.45	PPBV	99
39) DI-ISOPROPYL ETHER	8.767	45	251188	9.14	PPBV	100
40) ETHYL ACETATE	8.791	61	21762	9.70	PPBV	100
41) CHLOROFORM	8.883	83	242598	9.40	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\w\VW1223-24\
Data File : W29783.D
Acq On : 20 Jan 2011 9:00 pm
Operator : YOUMINH
Sample : ICV1222-10
Misc : MS6862,VW1223,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 11:53:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 09:39:52 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4-DIMETHYLPENTANE	9.553	57	152585	9.69	PPBV	100
43) 1,1,1-TRICHLOROETHANE	9.760	97	309743	9.33	PPBV	100
44) CARBON TETRACHLORIDE	10.315	117	348256	9.32	PPBV	100
45) 1,2-DICHLOROETHANE	9.535	62	182383	9.40	PPBV	99
47) BENZENE	10.181	78	277732	9.68	PPBV	100
48) CYCLOHEXANE	10.425	84	134317	9.26	PPBV	99
49) 2,3-DIMETHYLPENTANE	10.614	71	62386	9.63	PPBV	99
50) TRICHLOROETHYLENE	11.144	95	144577	9.67	PPBV	99
51) 1,2-DICHLOROPROPANE	10.925	63	82861	9.69	PPBV	100
52) BROMODICHLOROMETHANE	11.114	83	273154	9.69	PPBV	100
53) 2,2,4-TRIMETHYLPENTANE	11.150	57	407407	9.56	PPBV	99
54) 1,4-DIOXANE	11.181	88	55643	9.03	PPBV #	2
55) METHYL METHACRYLATE	11.309	69	87371	9.43	PPBV	99
56) HEPTANE	11.388	43	136177	9.48	PPBV	99
57) TVHC as EQUIV HEPTANE	11.388	TIC	764156m	9.78	PPBV	
58) METHYL ISOBUTYL KETONE	11.998	43	166567	9.50	PPBV	99
59) cis-1,3-DICHLOROPROPENE	11.955	75	169636	9.92	PPBV	98
60) TOLUENE	12.918	92	212307	10.01	PPBV	100
61) trans-1,3-DICHLOROPROPENE	12.461	75	161279	10.09	PPBV	99
62) 1,1,2-TRICHLOROETHANE	12.644	83	88129	10.13	PPBV	99
64) 2-HEXANONE	13.187	43	154840	9.34	PPBV	99
65) TETRACHLOROETHYLENE	14.064	164	161886	9.82	PPBV	99
66) DIBROMOCHLOROMETHANE	13.357	129	256867	10.24	PPBV	99
67) 1,2-DIBROMOETHANE	13.607	107	170424	10.47	PPBV	100
68) OCTANE	13.875	43	179873	10.25	PPBV	99
69) 1,1,1,2-TETRACHLOROETHANE	14.753	131	186248	9.90	PPBV #	100
70) CHLOROBENZENE	14.772	112	275753	9.89	PPBV	99
71) ETHYLBENZENE	15.162	91	477766	10.33	PPBV	99
72) m,p-XYLENE	15.351	106	355969	20.94	PPBV	98
73) o-XYLENE	15.863	106	171451	10.58	PPBV	100
74) STYRENE	15.747	104	249187	11.08	PPBV	99
75) 1,2,3-TRICHLOROPROPANE	16.009	75	163652	10.30	PPBV	99
76) NONANE	16.070	43	171118	11.33	PPBV	99
77) BROMOFORM	15.461	173	223794	9.85	PPBV	100
79) 1,1,2,2-TETRACHLOROETHANE	15.869	83	178273	10.66	PPBV	99
80) ISOPROPYLBENZENE	16.503	105	548788	10.65	PPBV	100
81) 2-CHLOROTOLUENE	17.040	126	113565	10.73	PPBV #	99
82) n-PROPYLBENZENE	17.070	120	134800	11.26	PPBV	97
83) 4-ETHYLTOLUENE	17.228	105	475800	11.54	PPBV	99
84) 1,3,5-TRIMETHYLBENZENE	17.314	105	396010	11.22	PPBV	100
85) TERT-BUTYLBENZENE	17.771	134	97904	10.74	PPBV	99
86) 1,2,4-TRIMETHYLBENZENE	17.777	105	370119	10.81	PPBV	100
87) m-DICHLOROBENZENE	17.954	146	219347	10.75	PPBV	99
88) BENZYL CHLORIDE	17.936	91	255235	10.43	PPBV	100
89) p-DICHLOROBENZENE	18.033	146	202673	10.48	PPBV	99
90) SEC-BUTYLBENZENE	18.076	134	113020	10.67	PPBV	98
91) p-ISOPROPYLTOLUENE	18.253	134	105194	10.39	PPBV	97
92) o-DICHLOROBENZENE	18.423	146	186718	10.58	PPBV	99
93) n-BUTYLBENZENE	18.734	134	76878	10.65	PPBV	99
94) HEXACHLOROBUTADIENE	20.868	225	54415	9.85	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\w\VW1223-24\
Data File : W29783.D
Acq On : 20 Jan 2011 9:00 pm
Operator : YOUMINH
Sample : ICV1222-10
Misc : MS6862,VW1223,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 11:53:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M
Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 09:39:52 2011
Response via : Initial Calibration

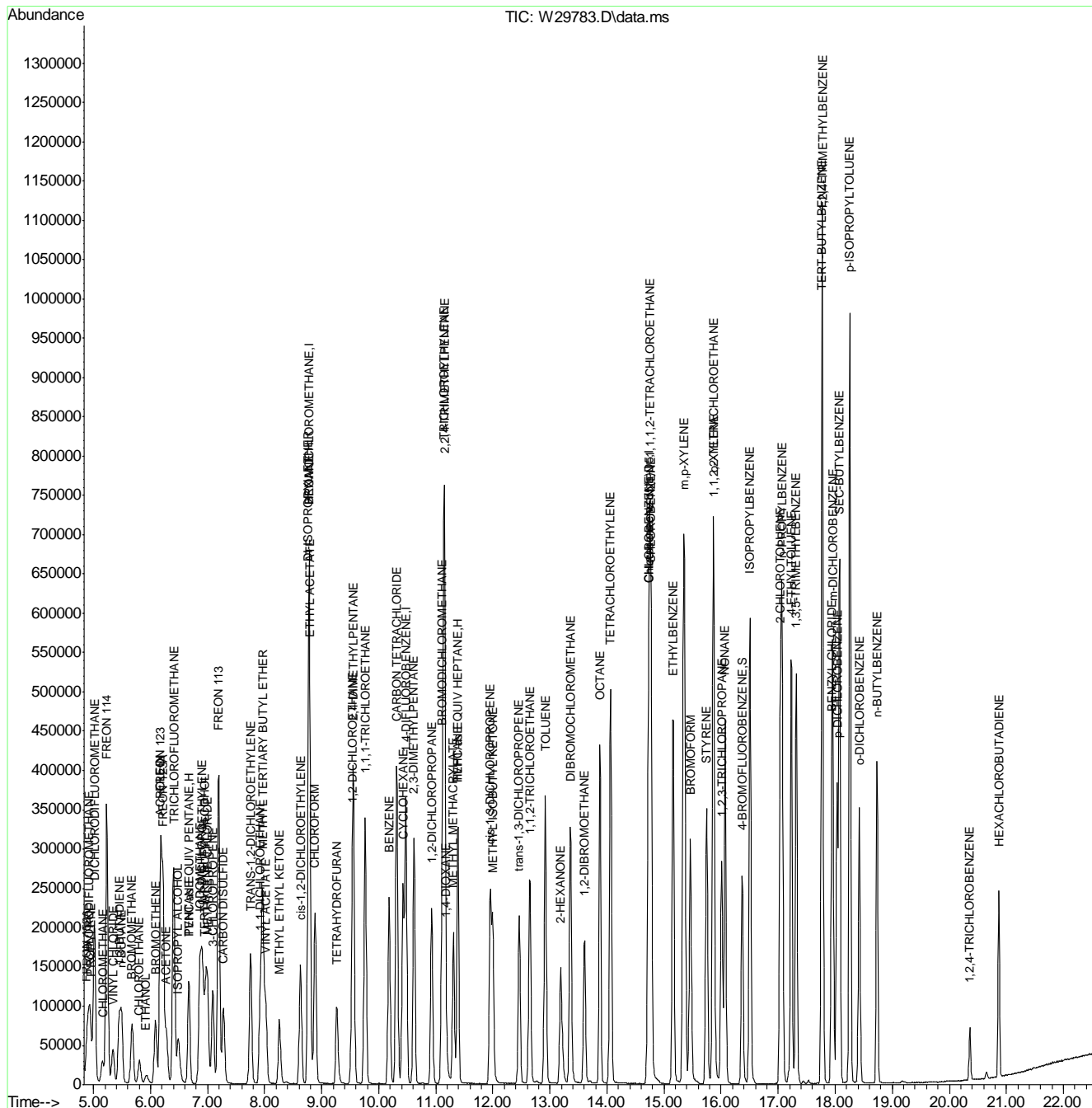
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,2,4-TRICHLOROBENZENE	20.362	180	25736	8.39	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\w\VW1223-24\
Data File : W29783.D
Acq On : 20 Jan 2011 9:00 pm
Operator : YOU MINH
Sample : ICV1222-10
Misc : MS6862,VW1223,,,,,1
ALS Vial : 2 Sample Multiplier: 1

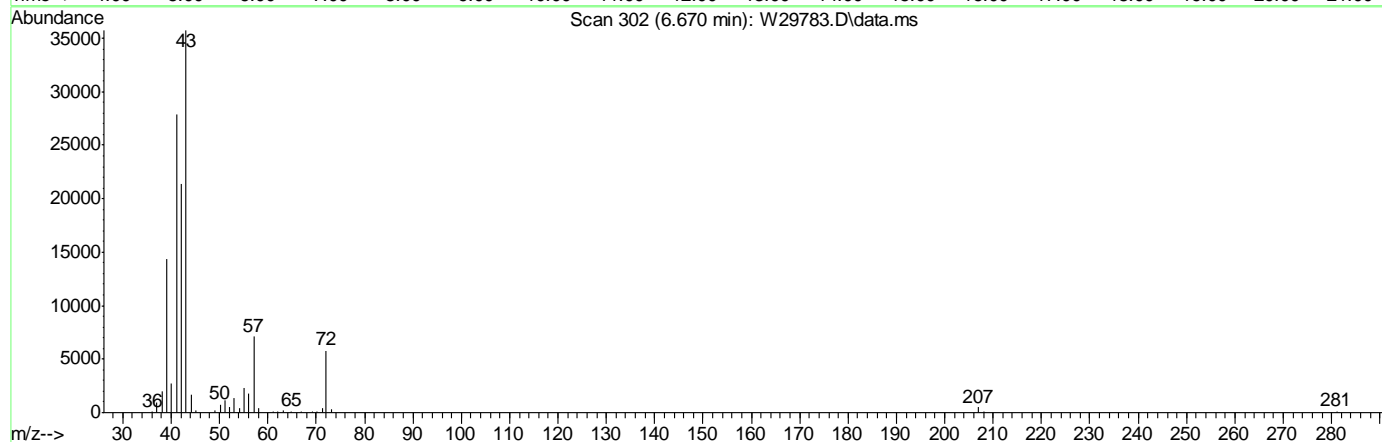
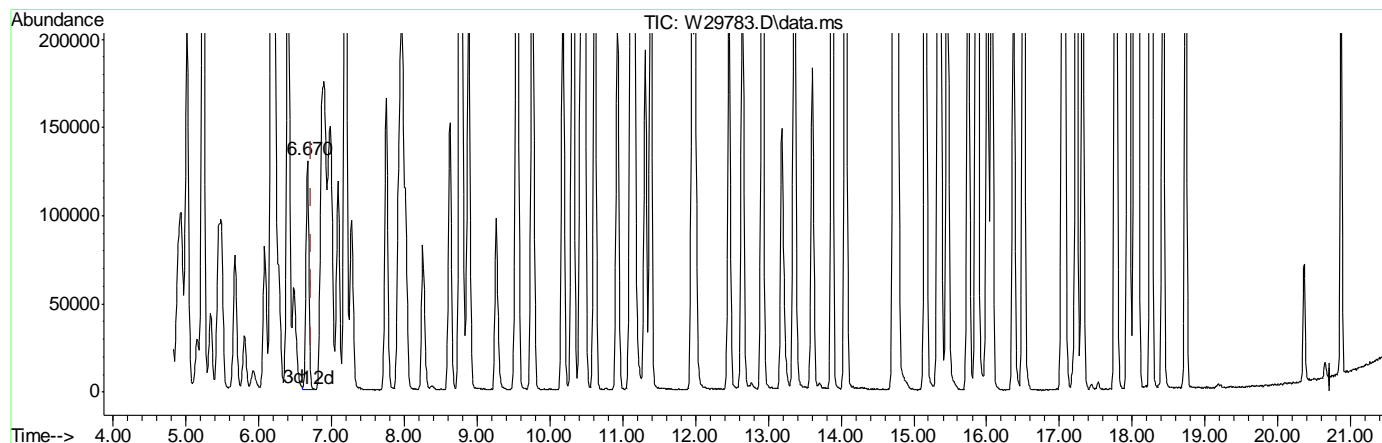
Quant Time: Jan 24 11:53:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 09:39:52 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\w\VW1223-24\
Data File : W29783.D
Acq On : 20 Jan 2011 9:00 pm
Operator : YOUMINH
Sample : ICV1222-10
Misc : MS6862,VW1223,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 11:53:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 09:39:52 2011
Response via : Initial Calibration



TIC: W29783.D\data.ms

(21) TVHC as EQUIV PENTANE (H)

6.670min (-0.055) 9.59PPBV m

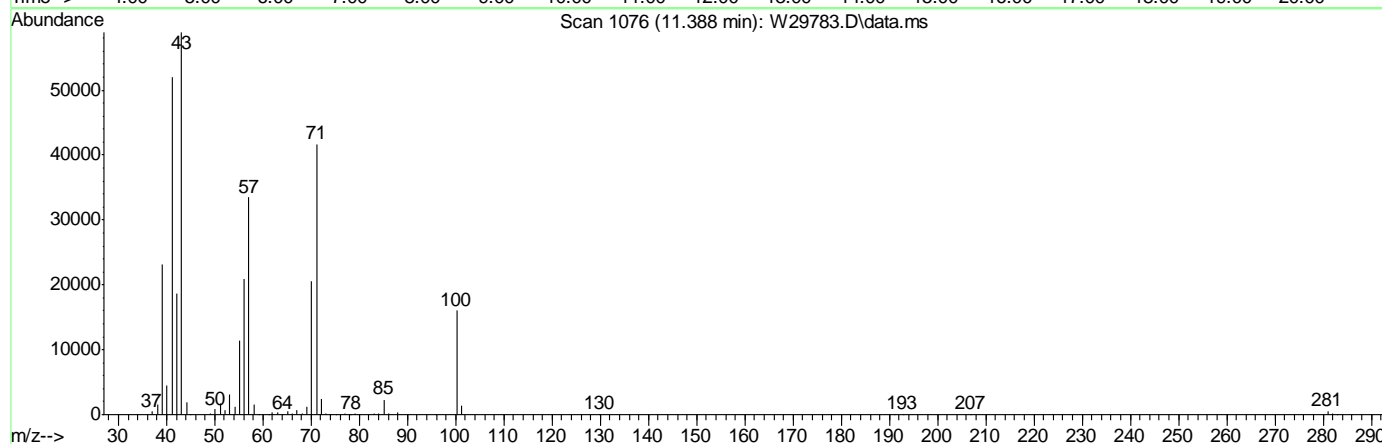
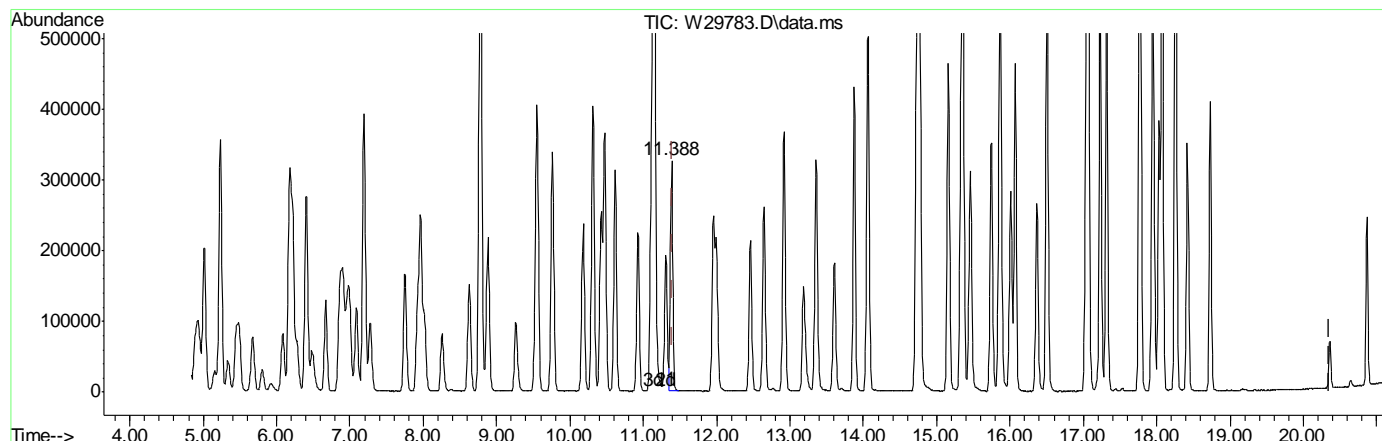
response 364170

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.01#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\w\VW1223-24\
Data File : W29783.D
Acq On : 20 Jan 2011 9:00 pm
Operator : YOU MINH
Sample : ICV1222-10
Misc : MS6862,VW1223,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 11:53:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Mon Jan 24 09:39:52 2011
Response via : Initial Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.388min (-0.018) 9.78PPBV m

response 764156

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30126.D
 Acq On : 11 Feb 2011 7:13 am
 Sample : CC1222-10
 Misc : MS7890,VW1236,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 14 08:17:51 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	95315	10.00	PPBV	-0.06
46) 1,4-DIFLUOROBENZENE	10.46	114	437021	10.00	PPBV	-0.04
63) CHLOROBENZENE-D5	14.70	82	239233	10.00	PPBV	-0.03
96) Chlorobenzene-d5(a)	14.70	82	236597	10.00	PPBV	-0.03

System Monitoring Compounds

78) 4-BROMOFLUOROBENZENE	16.34	95	136720	4.99	PPBV	-0.02
Spiked Amount	5.000	Range	65 - 128	Recovery	=	99.80%

Target Compounds

Qvalue

3) FREON 152A	4.88	65	45941	8.55	PPBV	88
4) CHLORODIFLUOROMETHANE	4.93	67	49506	10.83	PPBV	99
5) DICHLORODIFLUOROMETHANE	5.02	85	409482	10.06	PPBV	99
6) PROPYLENE	4.95	41	54090	9.54	PPBV	94
7) FREON 114	5.23	85	341879	9.35	PPBV	99
8) CHLOROMETHANE	5.16	52	18893	9.35	PPBV #	46
9) VINYL CHLORIDE	5.33	62	78641	8.87	PPBV	99
10) 1,3-BUTADIENE	5.44	54	59118	8.53	PPBV #	84
11) n-BUTANE	5.49	43	114945	8.70	PPBV #	97
12) BROMOMETHANE	5.67	94	90873	8.85	PPBV	99
13) CHLOROETHANE	5.80	64	45506	9.31	PPBV	96
14) ACROLEIN	6.18	56	28070	9.54	PPBV	99
15) FREON 123	6.17	83	249165	9.62	PPBV #	100
16) FREON 123A	6.21	117	192760	9.66	PPBV	98
17) TRICHLOROFLUOROMETHANE	6.40	101	474891	10.18	PPBV	100
18) ISOPROPYL ALCOHOL	6.49	45	155215	9.03	PPBV	97
19) ACETONE	6.27	58	33898	8.30	PPBV #	71
20) PENTANE	6.66	57	24026	10.27	PPBV #	86
21) TVHC as EQUIV PENTANE	6.66	TIC	492639m	10.75	PPBV	
22) IODOMETHANE	6.85	142	328460	10.62	PPBV	97
23) 1,1-DICHLOROETHYLENE	6.90	96	99805	9.23	PPBV	93
24) CARBON DISULFIDE	7.26	76	244343	8.35	PPBV	90
25) ETHANOL	5.93	45	25841	7.98	PPBV	95
26) BROMOETHENE	6.08	106	105815	9.41	PPBV	97
27) METHYLENE CHLORIDE	6.99	84	79030	8.56	PPBV	88
28) 3-CHLOROPROPENE	7.08	76	42541	8.98	PPBV #	71
29) FREON 113	7.18	151	240215	9.77	PPBV	95
30) TRANS-1,2-DICHLOROETHYLENE	7.74	96	105551	8.39	PPBV	96
31) TERTIARY BUTYL ALCOHOL	6.96	59	263434	9.05	PPBV	95
32) METHYL TERTIARY BUTYL ETHER	7.96	73	365211	9.19	PPBV	96
33) TETRAHYDROFURAN	9.25	72	40642	8.40	PPBV	91
34) HEXANE	8.76	57	135576	8.37	PPBV #	84
35) VINYL ACETATE	8.00	86	25040	8.64	PPBV #	73
36) 1,1-DICHLOROETHANE	7.91	63	184223	8.96	PPBV	99
37) METHYL ETHYL KETONE	8.24	72	38765	7.99	PPBV #	73
38) cis-1,2-DICHLOROETHYLENE	8.61	96	104922	8.33	PPBV	95
39) DI-ISOPROPYL ETHER	8.75	45	290782	8.77	PPBV	98
40) ETHYL ACETATE	8.78	61	23571	8.70	PPBV #	68
41) CHLOROFORM	8.86	83	282115	9.05	PPBV	97
42) 2,4-DIMETHYLPENTANE	9.53	57	165460	8.71	PPBV	99

(#) = qualifier out of range (m) = manual integration

W30126.D MW1222.M Mon Feb 14 10:30:14 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30126.D
 Acq On : 11 Feb 2011 7:13 am
 Sample : CC1222-10
 Misc : MS7890,VW1236,,,,,1
 MS Integration Params: rteint.p
 Quant Time: Feb 14 08:17:51 2011

Vial: 2
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Fri Jan 28 09:38:45 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,1,1-TRICHLOROETHANE	9.74	97	384179	9.59	PPBV	97
44) CARBON TETRACHLORIDE	10.29	117	433485	9.62	PPBV	99
45) 1,2-DICHLOROETHANE	9.52	62	235538	10.05	PPBV	99
47) BENZENE	10.16	78	294228	8.91	PPBV	99
48) CYCLOHEXANE	10.41	84	143435	8.59	PPBV	96
49) 2,3-DIMETHYLPENTANE	10.60	71	67646	9.07	PPBV	95
50) TRICHLOROETHYLENE	11.12	95	165463	9.62	PPBV	96
51) 1,2-DICHLOROPROPANE	10.91	63	88347	8.98	PPBV	89
52) BROMODICHLOROMETHANE	11.09	83	325067	10.02	PPBV	99
53) 2,2,4-TRIMETHYLPENTANE	11.13	57	448525	9.14	PPBV	98
54) 1,4-DIOXANE	11.17	88	53044	7.48	PPBV #	1
55) METHYL METHACRYLATE	11.29	69	90219	8.46	PPBV #	86
56) HEPTANE	11.36	43	151991	9.19	PPBV	94
57) TVHC as EQUIV HEPTANE	11.36	TIC	917301m	10.21	PPBV	
58) METHYL ISOBUTYL KETONE	11.98	43	186700	9.26	PPBV	95
59) cis-1,3-DICHLOROPROPENE	11.93	75	185679	9.43	PPBV #	79
60) TOLUENE	12.89	92	229136	9.39	PPBV	99
61) trans-1,3-DICHLOROPROPENE	12.44	75	181537	9.87	PPBV	86
62) 1,1,2-TRICHLOROETHANE	12.63	83	93403	9.25	PPBV	99
64) 2-HEXANONE	13.17	43	167252	8.51	PPBV	91
65) TETRACHLOROETHYLENE	14.04	164	197724	10.12	PPBV	97
66) DIBROMOCHLOROMETHANE	13.33	129	293664	9.88	PPBV	100
67) 1,2-DIBROMOETHANE	13.58	107	183545	9.51	PPBV	99
68) OCTANE	13.86	43	204486	9.83	PPBV	96
69) 1,1,1,2-TETRACHLOROETHANE	14.73	131	223635	10.03	PPBV #	100
70) CHLOROBENZENE	14.75	112	307376	9.30	PPBV	100
71) ETHYLBENZENE	15.14	91	521572	9.51	PPBV	100
72) m,p-XYLENE	15.33	106	393108	19.51	PPBV	98
73) o-XYLENE	15.84	106	188781	9.83	PPBV	99
74) STYRENE	15.73	104	264172	9.91	PPBV	98
75) 1,2,3-TRICHLOROPROPANE	15.98	75	171634	9.11	PPBV	96
76) NONANE	16.05	43	200885	11.22	PPBV	96
77) BROMOFORM	15.44	173	259040	9.62	PPBV	99
79) 1,1,2,2-TETRACHLOROETHANE	15.84	83	175082	8.83	PPBV	99
80) ISOPROPYLBENZENE	16.48	105	601046	9.84	PPBV	98
81) 2-CHLOROTOLUENE	17.02	126	126463	10.08	PPBV #	89
82) n-PROPYLBENZENE	17.05	120	148762	10.48	PPBV	91
83) 4-ETHYLTOLUENE	17.21	105	510848	10.46	PPBV	99
84) 1,3,5-TRIMETHYLBENZENE	17.30	105	447894	10.70	PPBV	99
85) TERT-BUTYLBENZENE	17.75	134	108346	10.02	PPBV	96
86) 1,2,4-TRIMETHYLBENZENE	17.75	105	419068	10.32	PPBV	99
87) m-DICHLOROBENZENE	17.94	146	230737	9.54	PPBV	99
88) BENZYL CHLORIDE	17.92	91	242566	8.36	PPBV	98
89) p-DICHLOROBENZENE	18.01	146	217734	9.50	PPBV	98
90) SEC-BUTYLBENZENE	18.06	134	121800	9.70	PPBV	92
91) p-ISOPROPYLTOLUENE	18.23	134	114991	9.58	PPBV	98
92) o-DICHLOROBENZENE	18.40	146	192898	9.22	PPBV	99
93) n-BUTYLBENZENE	18.72	134	78627	9.19	PPBV	91
94) HEXACHLOROBUTADIENE	20.85	225	46447	7.09	PPBV	100

(#) = qualifier out of range (m) = manual integration

W30126.D MW1222.M Mon Feb 14 10:30:15 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30126.D Vial: 2
Acq On : 11 Feb 2011 7:13 am Operator: YOUMINH
Sample : CC1222-10 Inst : MSW
Misc : MS7890,VW1236,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 14 08:17:51 2011 Quant Results File: MW1222.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,2,4-TRICHLOROBENZENE	20.34	180	27222	7.49	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W30126.D MW1222.M Mon Feb 14 10:30:15 2011 MSW

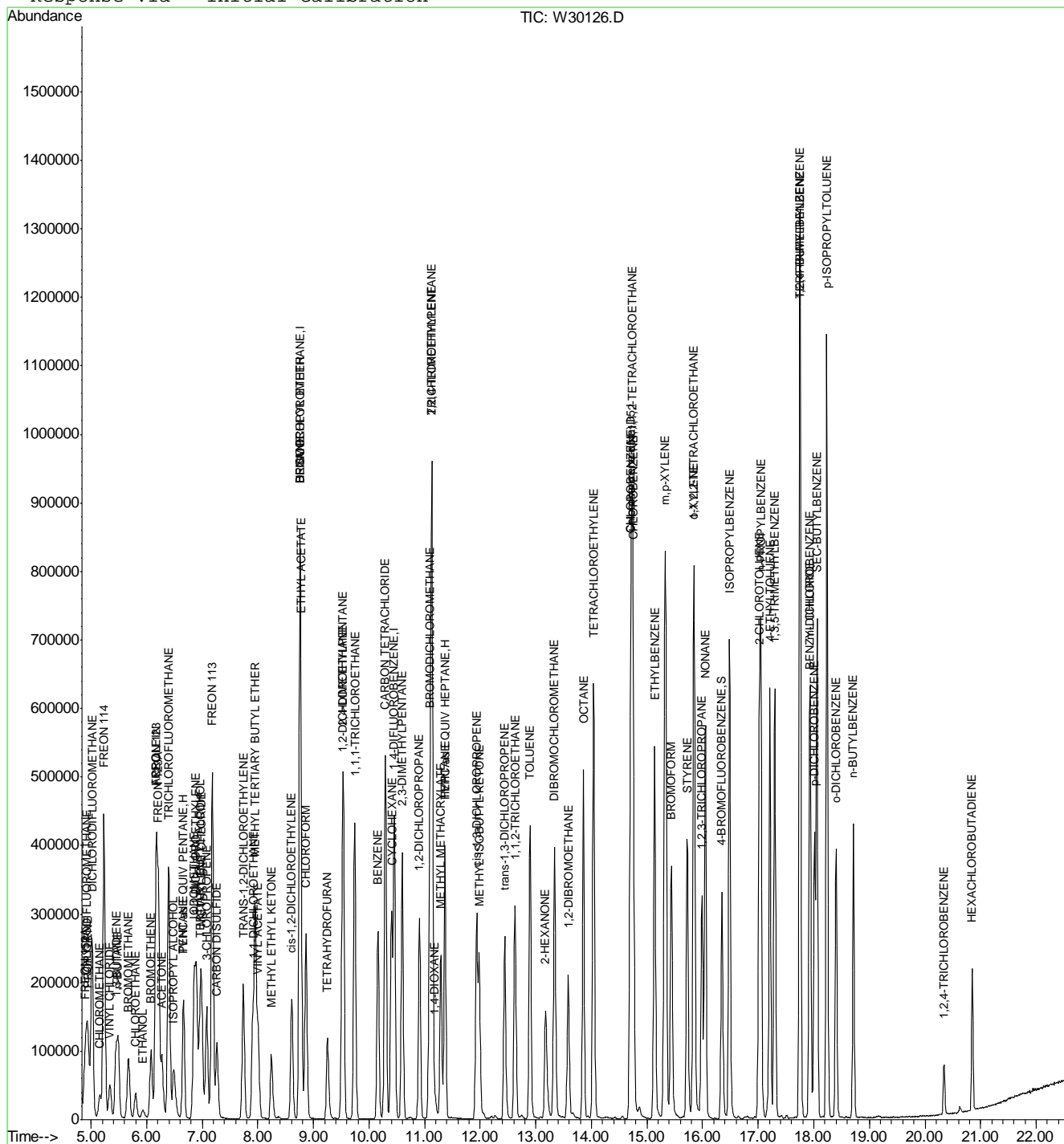
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W30126.D
Acq On : 11 Feb 2011 7:13 am
Sample : CC1222-10
Misc : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:02 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: MW1222.RES

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Initial Calibration



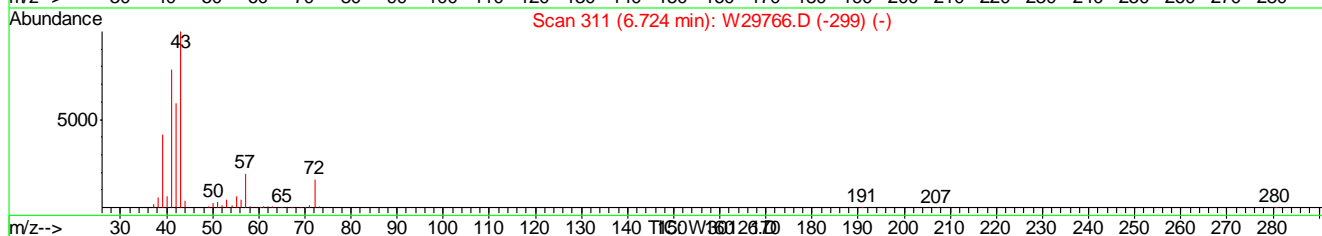
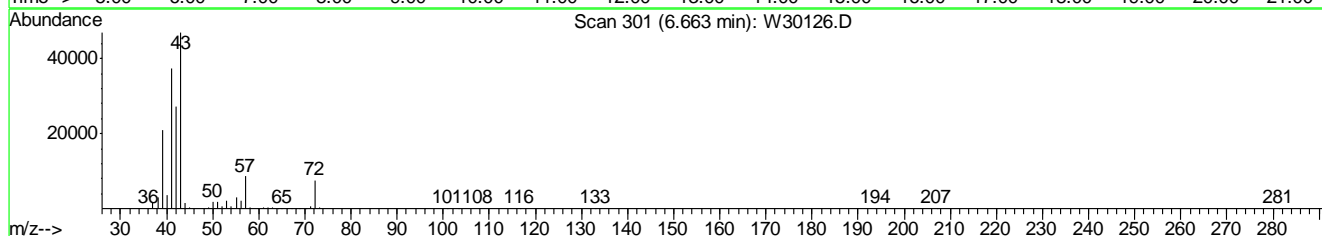
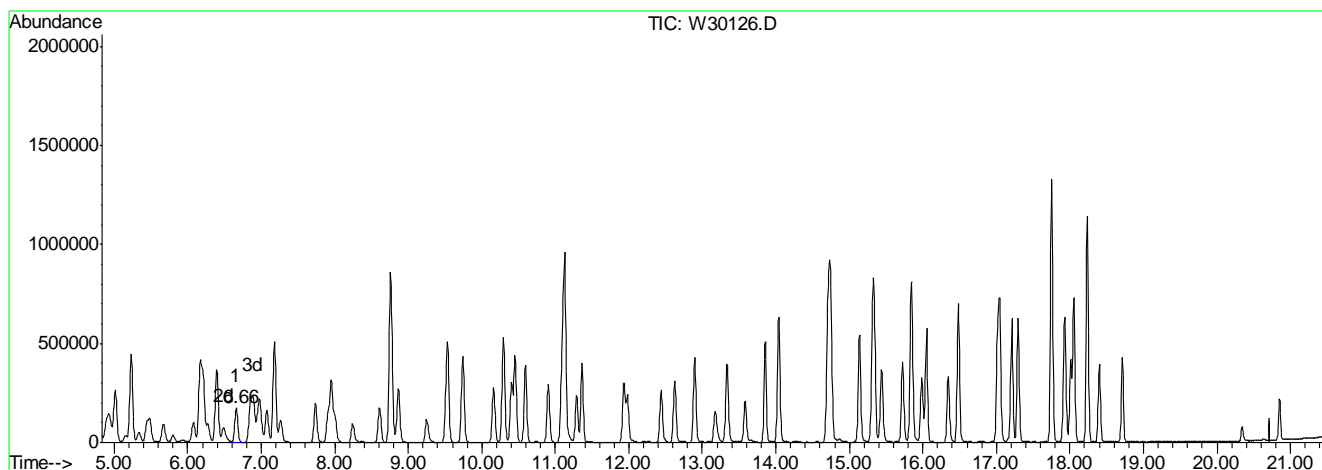
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W30126.D
Acq On : 11 Feb 2011 7:13 am
Sample : CC1222-10
Misc : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:02 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Multiple Level Calibration



(21) TVHC as EQUIV PENTANE (H)

6.66min 10.75PPBV m

response 492639

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.00	0.01#
------	------	-------

0.00	0.00	0.00#
------	------	-------

0.00	0.00	0.00
------	------	------

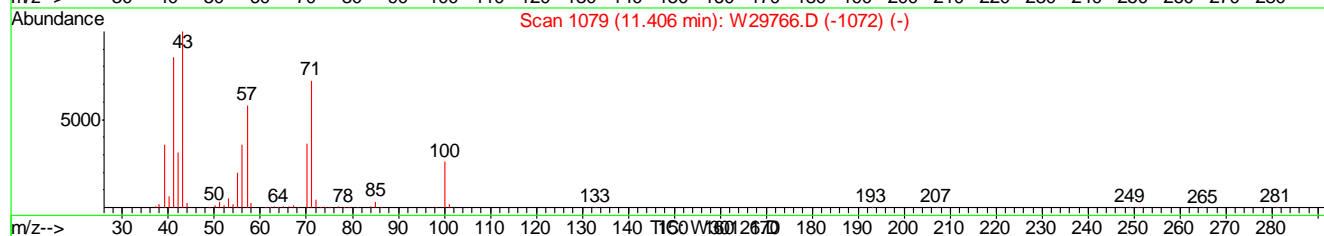
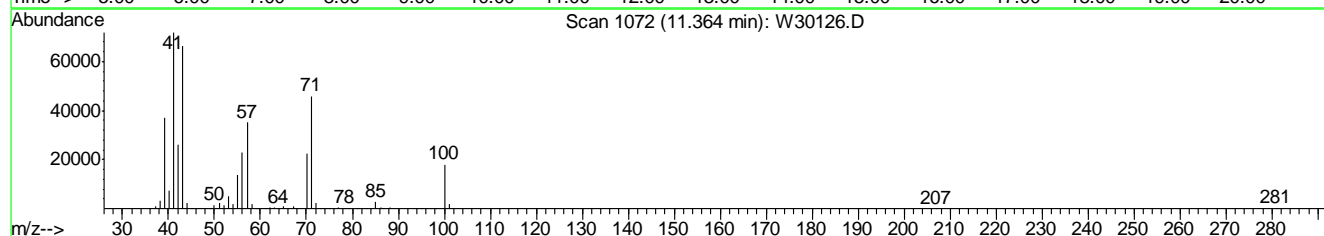
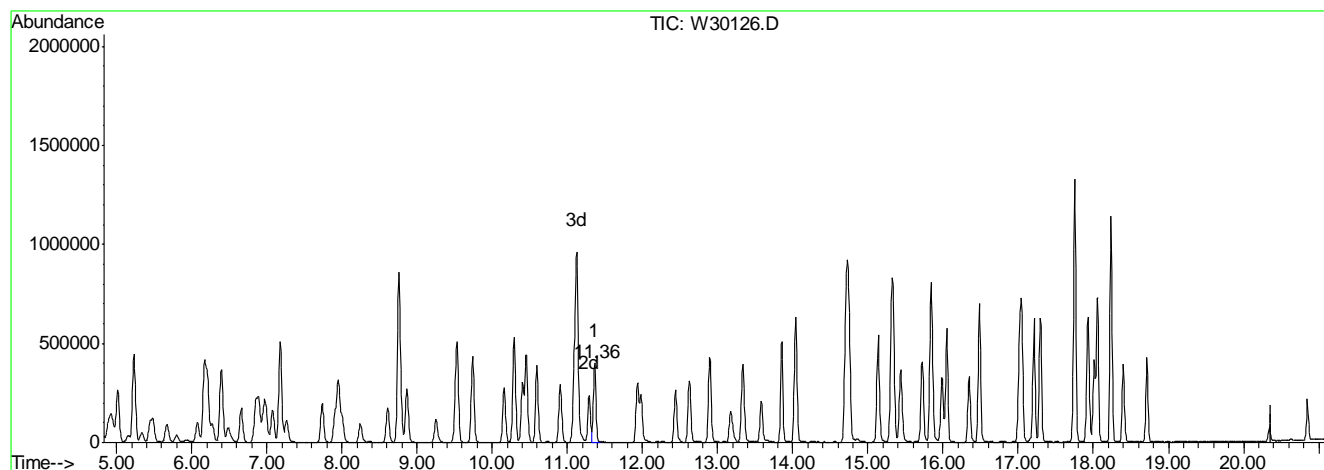
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W30126.D
Acq On : 11 Feb 2011 7:13 am
Sample : CC1222-10
Misc : MS7890,VW1236,,,,,1
MS Integration Params: rteint.p
Quant Time: Feb 14 10:02 2011

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1222.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Fri Jan 28 09:38:45 2011
Response via : Multiple Level Calibration



(57) TVHC as EQUIV HEPTANE (H)

11.36min 10.21PPBV m

response 917301

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00#
0.00	0.00	0.00#
0.00	0.00	0.00

Date: 2/14/11

Analyst Signature: *[Signature]*

Columns: RTX-1661X.32mm

Method: TO152W.M

Seq. File: 2W021411.S

Initial Cal. Method: M2W124D

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS4717	TO15STD	40ppbv
AS4718	TO15LCS	40ppbv
AS4709	IS15UCR	40/20ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: *[Signature]*

Date: 2/15/11

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	2W29757	BFB		A962	100					OK	
2	2W29758	CL1240-10		A974	100					OK	
3	2W29759	BS		A968	100					OK	
3	2W29760	BSD		A968	100					OK	
5	2W29761	MB		A962	400					OK	
6	2W29762	JA67832-1	STD	A313	100	1				OK	
7	2W29763	JA67832-2	↓	A248	40	1				OK	
8	2W29764	JA67954-3	STD	A773	100	1				OK	
9	2W29765	SCC		A398	400	1				OK	
10	2W29766	JA67951-2	STD	A039, A714	200	24.6				OK	
11	2W29767	JA67951-3		A169	100	1				OK	
12	2W29768	JA67951-4		A238	100	1				OK	
12	2W29769	JA67951-4Dup		A238	100	1				OK	
13	2W29770	JA67951-5		A457	100	1				OK	
14	2W29771	JA67951-6	↓	A131	100	1				OK/DC	RRSDX
15	2W29772	SCC		A197	400	1				OK	
16	2W29773	JA67951-7	STD	A881	541	5.41				OK/DC	RRSDX
1	2W29774	JA67951-8		A866	148	1.48				OK/DC	RRSDX
3	2W29775	JA67951-9		A252	100	1				RR	Possible C/p
4	2W29776	JA67951-10	↓	A818	100	1				RR	Possible C/p
6	2W29777	SCC		A002	400	1				OK	
7	2W29778	JA67951-11	STD	A288	100	1				OK/DC	RRSDX
8	2W29779	JA67951-12		A733	100	1				OK	
9	2W29780	JA67951-13		A851	100	1				OK/DC	RRSDX
10	2W29781	JA67951-14	↓	A243	100	1				OK/DC	RRSDX
11	2W29782	SCC		A749	400	1				OK	

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error, # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Date: 2/14/11

Analyst Signature:

Columns: RTX-16CMX.32mm

Method: T015242.01

Seq. File: 2W021411.S

Initial Cal. Method: M2W1240

AS Data

Method: T015, MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Sceptg 91	

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 2/15/4

[illegible]

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-04

Rev. Date: 6/13/06

93

Analyst Signature: YRCDate: 2/15/11

YRC

Columns: RTX-1 60m x 0.25mmMethod: TO153W.MSeq. File: 3W021511.SInitial Cal. Method: 13W821

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.
AS4736	Nap	40 ppbV
AS4737	Nap	2 ppbV
AS4738	IS1 SWRV	40/20/100V

Standard Data

Lot #	Description	Conc.
AS4733	TO15 STD	40 ppbV
AS4734		2
AS4735	↓	0.4
AS4736	TO15 ICS	40 ↓

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YHDate: 2/17/11

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W20777	BFB		A962	100					OK	
1	3W20778	1C821-0.5		A965	100					OK	
2	3W20779	1C821-20		A978	200					OK	
4	3W20780	1C821-0.1		A966	100					OK	
4	3W20781	1C821-0.04		A966	40					OK	
6	3W20782	Nap-10		A933	100					OK	
6	3W20783	Nap-5		A933	50					OK	
2	3W20784	1C821-40		A978	400					OK	
7	3W20785	Nap-0.5		A941	100					OK	
7	3W20786	Nap-0.2		A941	40					OK	
6	3W20787	Nap-20		A933	200					OK	
6	3W20788	Nap-40		A933	400					OK	
1	3W20789	1C821-0.2		A965	40					OK	
2	3W20790	1C821-5		A978	100 50 YRC					OK	
2	3W20791	1C821-10		A978	100					OK	
3	3W20792	1C821-10		A975	100					OK	
<div style="text-align: center;"> YRC 2/15/11 YRC </div>											

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

83

Date: 2/24/11

Columns: PTX-1, 6.0m x 32mm

Method: T0153W AA

Seq. File: 3W20974.1.5

Initial Cal. Method: AA3W821

AS Data

Method: T015 MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A54732	T015 LCS	400 ppb
4733	STD	40
4708	15/SUR	100/20

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 2/24

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W20971	BFB		A960	100					OK	6:45/1m
2	3W20972	CC 821-10		A978	100			/	/	OK	
3	3W20973	BS		A975	100			/	/	OK	(8) ↑ (9) ↑
3	3W20974	BSID		A975	100			/	/	OK	
5	3W20975	MB		A960	400			/	/	OK	
5	3W20976	SCC		A820	400			/	/	OK	
5	3W20977	SCC		A266	400			/	/	OK	
2	3W20978	JA68404-1		A272, A400	30	57.2		/	/	OK	
3	3W20979	JA68404-2		A357	50	1.58		/	/	OK	
1	3W20980	JA68814-1	8680	A238	400			/	/	OK	
4	3W20981	JA68814-2		A76	400			/	/	OK	
2	3W20982	JA68565-1	8536	A398	100			↑	-	RR	
3	3W20983	JA68565-2		A590	100			↑	-	RR	
1	3W20984	JA68565-3		A600	100			/	/	OK	
4	3W20985	JA68565-4dup	YCC	A600 791	100			/	/	OK/DL	
4	3W20986	JA68565-4dup		A298 791	100			/	/	OK	
6	3W20987	JA68565-5		A592	100			/	/	OK/DL	
7	3W20988	JA68565-6		A565	100			/	/	OK/DL	
8	3W20989	JA68565-7		A712	100			/	/	OK	
9	3W20990	JA68565-8		A573	100			/	/	OK	
10	3W20991	JA68565-9		A500	100			/	/	OK	
11	3W20992	JA68565-10		A796	100			/	/	OK/DL	
12	3W20993	JA68565-11		A580	100			/	/	OK	
13	3W20994	JA68565-12		A574	100			/	/	OK/DL	
14	3W20995	JA68423-4	8458	A548	100			/	/	OK	
15	3W20996	JA68423-5	↓	A522	100	✓		/	/	OK	
16	3W20997	JA68564-2	8536	A891, A516	200	56		/	/	OK/R	
23	3W20998	JA68564-3		A499, A530	100	115		/	/	OK/DL	
5	3W20999	SCC		A715	400	1		↓	-	RR	
2	3W21000	JA68565-21		A398	100	1		/	-	OK/DL	

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, #

3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

31 3W21001 JA68515-2

A590

100

1

OK

103

[illegible]

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc)

(Sample Volume in cc Injected)

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is $2 \times 10 = 20$. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is $20(\text{from canister dilution}) \times 20(\text{from instrument dilution}) = 400$

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalculation; # 4 = Analyst's Correction Error

Form: AT003-03
Rev. Date: 6/13/03



Date: 2/25/11

Analyst Signature: [Signature]

Columns: RTX-1. 60m x 0.32 mm

Method: TO15.3W.M

Seq. File: 3W022511.S

Initial Cal. Method: V3W821

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A4732	TO15 LUS	40 ppbv
4733	STD	40
4708	15/LWR	40/20

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 2/25

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W21002	BEB		A960	100					OK	6:16 AM
2	3W21003	CC821-10		A978	100					OK	
3	3W21004	BS		A9785	100					OK	(6) (8) ↑
3	3W21005	BSID		A975	100					OK	
5	3W21006	MB		A960	400					OK	
5	3W21007	SCC		A715	400					OK	CP4601
5	3W21008	SCC		A380	400					OK	CP4602
1	3W21009	JA68864-1	8680	A262	100	1				OK	
3	3W21010	JA68864-5	↓	A467	100					OK	
2	3W21011	JA68865-1	8536	A398	30					OK	
4	3W21012	JA68865-4		A791	40					OK	
5	3W21013	JA68865-5 SCC		A542 A465	400					OK	CP4604
5	3W21014	JA68865-6		A565	40					OK	
5	3W21015	JA68865-10		A796	30					OK	
13	3W21016	JA68865-12	↓	A514	40					OK	
1	3W21017	JA68864-8	8680	A206	400					OK	
1	3W21018	JA68864-8 dup		A206	400					OK	
2	3W21019	JA68864-2		A079	100					OK	
3	3W21020	JA68864-3		A732	100					OK	
4	3W21021	JA68864-6		A320	400					OK	
11	3W21022	JA68864-7		A348	100					OK/PL	
7	3W21023	JA68864-4	↓	A441	40					OK	
8	3W21024	JA68868-1		A624	100					OK/PL	
9	3W21025	JA68868-2		A402	100					OK	
10	3W21026	JA68868-3		A528	100					OK	
12	3W21027	JA68868-4		A513	100					OK	
6	3W21028	JA68865-5		A592	40					OK	
15	3W21029	JA68864-2 3YK		A594	50					OK	A459 A530 A689
16	3W21030	JA68864-2 2Y		A469 A530 A689	400					Not used	
5	3W21031	SCC		A854	400					OK	CP4605

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalculation; # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

105

Canister Secondary Dilution Log

[illegible]

Definition:

Example:

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error, # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT003-03
Rev. Date: 6/13/06

Analyst Signature: [Signature]
Columns: RTX-160MX .32mm
Method: TOLU.M
Seq. File: W012011.S
Initial Cal. Method: MW1222

AS Data

Method: T015.MPT

Standard Data

Lot #	Description	Conc.
AS 4673	ISISURR	40/20ppm

Standard Data

Lot #	Description	Conc.
AS 4676	TO15TD	40ppbv
AS 4692	TO15TD	10ppbv
AS 4693	TO15TD	0.4ppbv
AS 4675	TO15CS	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 1/26

[illegible]

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Form: AT008-05

Form: AT008-05

Rev. Date: 10/20/09

125



Date: 1/21/11

Analyst Signature:

Columns: RTX-160MX.3mm

Method: TOLSON W.M.

Seq. File: WD1211.S

Initial Cal. Method: MW1222

AS Data

Method: TC15MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 4676	TOISSD	40ppb
AS 4675	TOISLS	40ppb
AS 4673	ISISUR	4026ppb

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 1/29/11

[illegible]

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, #

3 = Computer Miscalculation, # 4 = Analyst's Correction Error
Form: AT008-05

Rev. Date: 10/20/09

127

Analyst Signature: [Signature]Date: 2/11/11Columns: RTX-160MX.32mmMethod: TO15W.MSeq. File: W021111.SInitial Cal. Method: MW1222

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 4712	TO15STD	400ppbv
AS 4711	TO15LCS	400ppbv
AS 4710	ISISURF	40/200ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 2/14/11

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W30125	BFB		A961	100					OK	
2	W30126	CC1222-10		A973	100					OK	
3	W30127	BS		A980	100					OK	
3	W30128	BSD		A980	100					OK	
5	W30129	MB		A961	400					OK	
6	W30130	JA67184-1	STD	A326, A520	100	220				OK	
7	W30131	JA67186-4	STD	A602	100	1				OK	
8	W30132	JA67184-1	STD	A566, A571	200	24				OK	
9	W30133	SCC		A791	400	1				OK	
10	W30134	JA67911-1	STD	A789	400	1				OK	
11	W30135	JA67911-2		A815	400	1				OK	
12	W30136	JA67911-3		A470	100	1				OK	
12	W30137	JA67911-3 Dup		A470	100	1				OK	
13	W30138	SCC		A904	400	1				OK	
14	W30139	JA67910-5	STD	A790	100	1				OK	
15	W30140	JA67910-6		A404	100	1				OK	
16	W30141	JA67910-7		A534	100	1				OK	
1	W30142	SCC		A311	400	1				OK	
3	W30143	JA67905-1	STD	A450	400	1				OK	RR 40ml
4	W30144	JA67905-2		A852	400	1				OK	RR 50ml
6	W30145	JA67905-3		A874	400	1				RR	
7	W30146	JA67905-4		A220	400	1				RR	RR 40ml/40ml
8	W30147	JA67905-5		A343	400	1				OK/DC	RR 100ml
9	W30148	JA67905-6		A231	400	1				OK/DC	RR 40ml
10	W30149	JA67905-7		A476	400	1				OK/DC	RR 100ml 4H
11	W30150	JA67905-8		A273	400	1				OK/DC	RR 100ml
12	W30151	JA67905-9		A870	400	1				OK/DC	SCC
513*	W30152	JA67845-4H		A469	400	1					
5	W30153						7H				

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Form: AT008-05

Rev. Date: 10/20/09

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[illegible]

Definition:

Example:

Notes:

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13 Form: AT003-03
Rev. Date: 6/13/06



09/12/11

Technical Report for

TRC

Lockheed Electronics Co, Watchung, NJ

116473.0000 PO#35332

Accutest Job Number: JA81330

Sampling Date: 07/19/11

Report to:

TRC Environmental Corporation

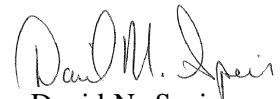
smccray@trcsolutions.com

ATTN: Scott McCray

Total number of pages in report: **685**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


David N. Speis
VP, Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

TRC

Job No: JA81330

Lockheed Electronics Co, Watchung, NJ
Project No: 116473.0000 PO#35332

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA81330-1	07/19/11	10:13 SM	07/19/11	AIR	Indoor Air Comp.	7006 CR
JA81330-2	07/19/11	10:16 SM	07/19/11	AIR	Indoor Air Comp.	7007 CR
JA81330-3	07/19/11	10:23 SM	07/19/11	AIR	Indoor Air Comp.	12002 CR
JA81330-4	07/19/11	10:26 SM	07/19/11	AIR	Indoor Air Comp.	12003 CR
JA81330-5	07/19/11	10:37 SM	07/19/11	AIR	Indoor Air Comp.	6007 CR
JA81330-6	07/19/11	10:45 SM	07/19/11	AIR	Indoor Air Comp.	BLDG 3 CR
JA81330-7	07/19/11	10:33 SM	07/19/11	AIR	Indoor Air Comp.	6006 CR
JA81330-8	07/19/11	11:33 SM	07/19/11	AIR	Indoor Air Comp.	BLDG 26 RV

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: TRC**Job No** JA81330**Site:** Lockheed Electronics Co, Watchung, NJ**Report Date** 8/3/2011 2:51:46 PM

On 07/19/2011, 8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories . An Accutest Job Number of JA81330 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR**Batch ID:** VW1341

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA81330-5DUP were used as the QC samples indicated.
- Sample(s) JA81330-1, JA81330-4 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.
- RPD(s) for Duplicate for 4-Ethyltoluene are outside control limits for sample JA81330-5DUP. Probable cause due to sample homogeneity.

Matrix: AIR**Batch ID:** VW1342

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA81054-3DUP were used as the QC samples indicated.
- Sample(s) JA81330-5, JA81330-6, JA81330-7 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Sample Results

Report of Analysis

Accutest LabLink@633525 12:40 12-Sep-2011

Report of Analysis

Page 1 of 3

Client Sample ID:	7006 CR		
Lab Sample ID:	JA81330-1	Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A190
Method:	TO-15	Date Received:	07/19/11
Project:	Lockheed Electronics Co, Watchung, NJ	Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W32807.D	1	07/20/11	YMH	n/a	n/a	VW1341
Run #2	W32816.D	1	07/20/11	YMH	n/a	n/a	VW1341

	Initial Volume
Run #1	400 ml
Run #2	50.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	135 ^a	1.6	0.29	ppbv		321 ^a	3.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	1.5	0.20	0.046	ppbv		4.8	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.28	0.20	0.032	ppbv		0.87	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	0.096	0.20	0.039	ppbv	J	0.25	0.53	ug/m3
67-66-3	119.4	Chloroform	0.35	0.20	0.028	ppbv		1.7	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.94	0.20	0.037	ppbv		1.9	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.13	0.20	0.040	ppbv	J	0.82	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.50	0.20	0.034	ppbv		1.7	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.26	0.20	0.043	ppbv		1.1	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.20	0.038	ppbv		2.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 7006 CR
Lab Sample ID: JA81330-1
Matrix: AIR - Indoor Air Comp. Summa ID: A190
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	852 ^a	4.0	0.76	ppbv	E	1610 ^a	7.5	ug/m3
100-41-4	106.2	Ethylbenzene	3.2	0.20	0.031	ppbv		14	0.87	ug/m3
141-78-6	88	Ethyl Acetate	8.1	0.20	0.061	ppbv		29	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	5.6	0.20	0.024	ppbv		28	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.9	0.20	0.033	ppbv		7.8	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	1.3	0.20	0.044	ppbv		4.6	0.70	ug/m3
591-78-6	100	2-Hexanone	3.5	0.20	0.043	ppbv		14	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	23.1	0.20	0.059	ppbv		56.8	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.23	0.20	0.027	ppbv		0.80	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	17.1	0.20	0.048	ppbv		50.4	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	1.9	0.20	0.036	ppbv		7.8	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	5.1	0.50	0.070	ppbv		8.8	0.86	ug/m3
100-42-5	104.1	Styrene	0.48	0.20	0.027	ppbv		2.0	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	12.1	0.20	0.024	ppbv		59.5	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	3.6	0.20	0.028	ppbv		18	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.60	0.20	0.028	ppbv		2.8	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	4.0	0.20	0.032	ppbv		12	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.75	0.040	0.028	ppbv		5.1	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.0	0.20	0.047	ppbv		2.9	0.59	ug/m3
108-88-3	92.14	Toluene	10.6	0.20	0.040	ppbv		39.9	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.23	0.040	0.033	ppbv		1.2	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.37	0.20	0.042	ppbv		2.1	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	12.8	0.20	0.031	ppbv		55.6	0.87	ug/m3
95-47-6	106.2	o-Xylene	5.4	0.20	0.031	ppbv		23	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	18.2	0.20	0.031	ppbv		79.1	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	99%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	7006 CR			
Lab Sample ID:	JA81330-1		Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A190	Date Received: 07/19/11
Method:	TO-15		Percent Solids:	n/a
Project:	Lockheed Electronics Co, Watchung, NJ			

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
---------	----	----------	--------	----	-----	-------	---	--------	----	-------

(a) Result is from Run# 2

ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Accutest LabLink@633525 12:40 12-Sep-2011

Report of Analysis

Page 1 of 3

Client Sample ID:	7007 CR		
Lab Sample ID:	JA81330-2	Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A089
Method:	TO-15	Date Received:	07/19/11
Project:	Lockheed Electronics Co, Watchung, NJ	Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W32808.D	1	07/20/11	YMH	n/a	n/a	VW1341
Run #2	W32817.D	1	07/20/11	YMH	n/a	n/a	VW1341

	Initial Volume
Run #1	400 ml
Run #2	50.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	138 ^a	1.6	0.29	ppbv		328 ^a	3.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	1.8	0.20	0.046	ppbv		5.8	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.52	0.20	0.032	ppbv		1.6	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	0.11	0.20	0.039	ppbv	J	0.29	0.53	ug/m3
67-66-3	119.4	Chloroform	0.31	0.20	0.028	ppbv		1.5	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.83	0.20	0.037	ppbv		1.7	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.71	0.20	0.034	ppbv		2.4	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.63	0.20	0.043	ppbv		2.5	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 7007 CR
Lab Sample ID: JA81330-2
Matrix: AIR - Indoor Air Comp. Summa ID: A089
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	221 ^a	4.0	0.76	ppbv		416 ^a	7.5	ug/m3
100-41-4	106.2	Ethylbenzene	3.8	0.20	0.031	ppbv		17	0.87	ug/m3
141-78-6	88	Ethyl Acetate	4.7	0.20	0.061	ppbv		17	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	5.8	0.20	0.024	ppbv		29	0.98	ug/m3
76-13-1	187.4	Freon 113	0.10	0.20	0.034	ppbv	J	0.77	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.5	0.20	0.033	ppbv		6.1	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	2.2	0.20	0.044	ppbv		7.8	0.70	ug/m3
591-78-6	100	2-Hexanone	0.52	0.20	0.043	ppbv		2.1	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	15.5	0.20	0.059	ppbv		38.1	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.27	0.20	0.027	ppbv		0.94	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	6.0	0.20	0.048	ppbv		18	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.28	0.20	0.036	ppbv		1.1	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	4.1	0.50	0.070	ppbv		7.0	0.86	ug/m3
100-42-5	104.1	Styrene	0.51	0.20	0.027	ppbv		2.2	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	10.5	0.20	0.024	ppbv		51.6	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	3.6	0.20	0.028	ppbv		18	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.0	0.20	0.028	ppbv		4.7	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	11.8	0.20	0.032	ppbv		35.8	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.1	0.040	0.028	ppbv		7.5	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.2	0.20	0.047	ppbv		3.5	0.59	ug/m3
108-88-3	92.14	Toluene	14.9	0.20	0.040	ppbv		56.2	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.50	0.040	0.033	ppbv		2.7	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.29	0.20	0.042	ppbv		1.6	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	14.8	0.20	0.031	ppbv		64.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	6.4	0.20	0.031	ppbv		28	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	21.3	0.20	0.031	ppbv		92.5	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	97%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	7007 CR		
Lab Sample ID:	JA81330-2	Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A089
Method:	TO-15	Date Received:	07/19/11
Project:	Lockheed Electronics Co, Watchung, NJ	Percent Solids:	n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	12002 CR		
Lab Sample ID:	JA81330-3	Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A147
Method:	TO-15	Date Received:	07/19/11
Project:	Lockheed Electronics Co, Watchung, NJ	Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W32809.D	1	07/20/11	YMH	n/a	n/a	VW1341
Run #2	W32818.D	1	07/20/11	YMH	n/a	n/a	VW1341

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	111 ^a	0.80	0.15	ppbv		264 ^a	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	2.3	0.20	0.046	ppbv		7.3	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.27	0.20	0.032	ppbv		0.84	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.78	0.20	0.028	ppbv		3.8	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.79	0.20	0.037	ppbv		1.6	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.82	0.20	0.034	ppbv		2.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.20	0.038	ppbv		2.3	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 12002 CR
Lab Sample ID: JA81330-3
Matrix: AIR - Indoor Air Comp. Summa ID: A14
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	156 ^a	2.0	0.38	ppbv		294 ^a	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	4.2	0.20	0.031	ppbv		18	0.87	ug/m3
141-78-6	88	Ethyl Acetate	3.6	0.20	0.061	ppbv		13	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	7.5	0.20	0.024	ppbv		37	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.6	0.20	0.033	ppbv		6.6	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	2.5	0.20	0.044	ppbv		8.8	0.70	ug/m3
591-78-6	100	2-Hexanone	0.51	0.20	0.043	ppbv		2.1	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	26.2	0.20	0.059	ppbv		64.4	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.27	0.20	0.027	ppbv		0.94	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	4.8	0.20	0.048	ppbv		14	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.21	0.20	0.036	ppbv		0.86	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	5.0	0.50	0.070	ppbv		8.6	0.86	ug/m3
100-42-5	104.1	Styrene	0.61	0.20	0.027	ppbv		2.6	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	16.5	0.20	0.024	ppbv		81.1	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	4.8	0.20	0.028	ppbv		24	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.4	0.20	0.028	ppbv		6.5	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	18.8	0.20	0.032	ppbv		57.0	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.2	0.040	0.028	ppbv		8.1	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.1	0.20	0.047	ppbv		3.2	0.59	ug/m3
108-88-3	92.14	Toluene	16.3	0.20	0.040	ppbv		61.4	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.13	0.040	0.033	ppbv		0.70	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.29	0.20	0.042	ppbv		1.6	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	16.7	0.20	0.031	ppbv		72.5	0.87	ug/m3
95-47-6	106.2	o-Xylene	7.4	0.20	0.031	ppbv		32	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	24.1	0.20	0.031	ppbv		105	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	94%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	12002 CR		
Lab Sample ID:	JA81330-3	Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID: A14	Date Received: 07/19/11
Method:	TO-15	Percent Solids:	n/a
Project:	Lockheed Electronics Co, Watchung, NJ		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: 12003 CR
Lab Sample ID: JA81330-4
Matrix: AIR - Indoor Air Comp. Summa ID: A661
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W32810.D	1	07/20/11	YMH	n/a	n/a	VW1341
Run #2	W32819.D	1	07/20/11	YMH	n/a	n/a	VW1341

	Initial Volume
Run #1	400 ml
Run #2	50.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	155 ^a	1.6	0.29	ppbv		368 ^a	3.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	1.7	0.20	0.046	ppbv		5.4	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.39	0.20	0.032	ppbv		1.2	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.37	0.20	0.028	ppbv		1.8	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.33	0.20	0.040	ppbv		2.1	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.72	0.20	0.034	ppbv		2.5	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.67	0.20	0.043	ppbv		2.7	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.20	0.038	ppbv		2.3	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	0.14	0.20	0.025	ppbv	J	0.84	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 12003 CR
Lab Sample ID: JA81330-4
Matrix: AIR - Indoor Air Comp. Summa ID: A661
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	342 ^a	4.0	0.76	ppbv	E	644 ^a	7.5	ug/m3
100-41-4	106.2	Ethylbenzene	3.8	0.20	0.031	ppbv		17	0.87	ug/m3
141-78-6	88	Ethyl Acetate	5.4	0.20	0.061	ppbv		19	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	6.6	0.20	0.024	ppbv		32	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.4	0.20	0.033	ppbv		5.7	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	1.8	0.20	0.044	ppbv		6.3	0.70	ug/m3
591-78-6	100	2-Hexanone	0.31	0.20	0.043	ppbv		1.3	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	106 ^a	1.6	0.47	ppbv		261 ^a	3.9	ug/m3
75-09-2	84.94	Methylene chloride	0.34	0.20	0.027	ppbv		1.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.8	0.20	0.048	ppbv		11	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.69	0.20	0.036	ppbv		2.8	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	10.5	0.50	0.070	ppbv		18.0	0.86	ug/m3
100-42-5	104.1	Styrene	0.90	0.20	0.027	ppbv		3.8	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	14.4	0.20	0.024	ppbv		70.8	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	4.2	0.20	0.028	ppbv		21	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.2	0.20	0.028	ppbv		5.6	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	9.7	0.20	0.032	ppbv		29	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.7	0.040	0.028	ppbv		12	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.92	0.20	0.047	ppbv		2.7	0.59	ug/m3
108-88-3	92.14	Toluene	13.4	0.20	0.040	ppbv		50.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.088	0.040	0.033	ppbv		0.47	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.20	0.042	ppbv		1.5	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	15.2	0.20	0.031	ppbv		66.0	0.87	ug/m3
95-47-6	106.2	o-Xylene	6.7	0.20	0.031	ppbv		29	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	21.9	0.20	0.031	ppbv		95.1	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	93%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: 12003 CR

Lab Sample ID: JA81330-4

Date Sampled: 07/19/11

Matrix: AIR - Indoor Air Comp.

Summa ID: A661 Date Received: 07/19/11

Method:	TO-15
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Percent Solids: n/a

Project: Lockheed Electronics Co, Watchung, NJ

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 3

Client Sample ID: 6007 CR
Lab Sample ID: JA81330-5
Matrix: AIR - Indoor Air Comp. Summa ID: A365
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W32811.D	1	07/20/11	YMH	n/a	n/a	VW1341
Run #2	W32833.D	1	07/21/11	YMH	n/a	n/a	VW1342

	Initial Volume
Run #1	400 ml
Run #2	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	98.8 ^a	2.0	0.36	ppbv		235 ^a	4.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.62	0.20	0.046	ppbv		2.0	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.14	0.20	0.032	ppbv	J	0.44	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.88	0.20	0.028	ppbv		4.3	0.98	ug/m3
74-87-3	50.49	Chloromethane	1.2	0.20	0.037	ppbv		2.5	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.19	0.20	0.040	ppbv	J	1.2	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.29	0.20	0.034	ppbv		1.0	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.18	0.20	0.043	ppbv	J	0.73	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	2.4	0.20	0.038	ppbv		12	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	1.1	0.20	0.025	ppbv		6.6	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 6007 CR
Lab Sample ID: JA81330-5
Matrix: AIR - Indoor Air Comp. Summa ID: A365
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2070 ^a	5.0	0.95	ppbv	E	3900 ^a	9.4	ug/m3
100-41-4	106.2	Ethylbenzene	0.56	0.20	0.031	ppbv		2.4	0.87	ug/m3
141-78-6	88	Ethyl Acetate	5.8	0.20	0.061	ppbv		21	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.22	0.20	0.024	ppbv		1.1	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.66	0.20	0.033	ppbv		2.7	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.53	0.20	0.044	ppbv		1.9	0.70	ug/m3
591-78-6	100	2-Hexanone	0.19	0.20	0.043	ppbv	J	0.78	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	85.2 ^a	2.0	0.59	ppbv		209 ^a	4.9	ug/m3
75-09-2	84.94	Methylene chloride	0.29	0.20	0.027	ppbv		1.0	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.4	0.20	0.048	ppbv		7.1	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.34	0.20	0.036	ppbv		1.4	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.82	0.20	0.027	ppbv		3.5	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.1	0.20	0.024	ppbv		5.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.27	0.20	0.028	ppbv		1.3	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.23	0.20	0.028	ppbv		1.1	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.20	0.040	0.028	ppbv		1.4	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.49	0.20	0.047	ppbv		1.4	0.59	ug/m3
108-88-3	92.14	Toluene	5.1	0.20	0.040	ppbv		19	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.040	0.040	0.033	ppbv		0.21	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.1	0.20	0.042	ppbv		6.2	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	1.8	0.20	0.031	ppbv		7.8	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.61	0.20	0.031	ppbv		2.6	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	2.4	0.20	0.031	ppbv		10	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	90%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	6007 CR		
Lab Sample ID:	JA81330-5	Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID: A365	Date Received: 07/19/11
Method:	TO-15	Percent Solids:	n/a
Project:	Lockheed Electronics Co, Watchung, NJ		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 3

Client Sample ID:	BLDG 3 CR	Date Sampled:	07/19/11
Lab Sample ID:	JA81330-6	Date Received:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A039
Method:	TO-15	Percent Solids:	n/a
Project:	Lockheed Electronics Co, Watchung, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W32813.D	1	07/20/11	YMH	n/a	n/a	VW1341
Run #2	W32834.D	1	07/21/11	YMH	n/a	n/a	VW1342

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	20.9	0.20	0.036	ppbv		49.6	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.49	0.20	0.046	ppbv		1.6	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.19	0.20	0.028	ppbv	J	0.93	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.097	0.20	0.040	ppbv	J	0.61	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.18	0.20	0.034	ppbv	J	0.62	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.20	0.038	ppbv		2.3	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	0.28	0.20	0.025	ppbv		1.7	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BLDG 3 CR
Lab Sample ID: JA81330-6
Matrix: AIR - Indoor Air Comp. Summa ID: A039
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	524 ^a	2.0	0.38	ppbv	E	987 ^a	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.46	0.20	0.031	ppbv		2.0	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.0	0.20	0.061	ppbv		7.2	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.12	0.20	0.024	ppbv	J	0.59	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.32	0.20	0.033	ppbv		1.3	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.36	0.20	0.044	ppbv		1.3	0.70	ug/m3
591-78-6	100	2-Hexanone	0.13	0.20	0.043	ppbv	J	0.53	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	15.1	0.20	0.059	ppbv		37.1	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.24	0.20	0.027	ppbv		0.83	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.2	0.20	0.048	ppbv		3.5	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.57	0.20	0.036	ppbv		2.3	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	4.4	0.50	0.070	ppbv		7.6	0.86	ug/m3
100-42-5	104.1	Styrene	0.32	0.20	0.027	ppbv		1.4	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.47	0.20	0.024	ppbv		2.3	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.12	0.20	0.028	ppbv	J	0.59	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.23	0.20	0.028	ppbv		1.1	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.26	0.20	0.032	ppbv		0.79	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.32	0.040	0.028	ppbv		2.2	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.31	0.20	0.047	ppbv		0.91	0.59	ug/m3
108-88-3	92.14	Toluene	3.3	0.20	0.040	ppbv		12	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.085	0.040	0.033	ppbv		0.46	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.29	0.20	0.042	ppbv		1.6	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	1.5	0.20	0.031	ppbv		6.5	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.53	0.20	0.031	ppbv		2.3	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	2.0	0.20	0.031	ppbv		8.7	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	89%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	BLDG 3 CR		
Lab Sample ID:	JA81330-6	Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A039
Method:	TO-15	Date Received:	07/19/11
Project:	Lockheed Electronics Co, Watchung, NJ	Percent Solids:	n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: 6006 CR
Lab Sample ID: JA81330-7
Matrix: AIR - Indoor Air Comp. Summa ID: A358
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W32814.D	1	07/20/11	YMH	n/a	n/a	VW1341
Run #2	W32835.D	1	07/21/11	YMH	n/a	n/a	VW1342

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	97.3 ^a	0.80	0.15	ppbv		231 ^a	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	2.4	0.20	0.046	ppbv		7.7	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.28	0.20	0.032	ppbv		0.87	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	0.096	0.20	0.039	ppbv	J	0.25	0.53	ug/m3
67-66-3	119.4	Chloroform	0.22	0.20	0.028	ppbv		1.1	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.83	0.20	0.037	ppbv		1.7	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.88	0.20	0.034	ppbv		3.0	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.76	0.20	0.043	ppbv		3.1	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.038	ppbv		2.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 6006 CR
Lab Sample ID: JA81330-7
Matrix: AIR - Indoor Air Comp. Summa ID: A358
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	544 ^a	2.0	0.38	ppbv	E	1030 ^a	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	3.8	0.20	0.031	ppbv		17	0.87	ug/m3
141-78-6	88	Ethyl Acetate	5.2	0.20	0.061	ppbv		19	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	5.2	0.20	0.024	ppbv		26	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.7	0.20	0.033	ppbv		7.0	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	2.6	0.20	0.044	ppbv		9.2	0.70	ug/m3
591-78-6	100	2-Hexanone	0.40	0.20	0.043	ppbv		1.6	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	24.6	0.20	0.059	ppbv		60.5	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.26	0.20	0.027	ppbv		0.90	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.3	0.20	0.048	ppbv		9.7	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.22	0.20	0.036	ppbv		0.90	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.42	0.20	0.027	ppbv		1.8	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	8.5	0.20	0.024	ppbv		42	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	2.9	0.20	0.028	ppbv		14	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.2	0.20	0.028	ppbv		5.6	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	8.2	0.20	0.032	ppbv		25	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.1	0.040	0.028	ppbv		7.5	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.97	0.20	0.047	ppbv		2.9	0.59	ug/m3
108-88-3	92.14	Toluene	15.8	0.20	0.040	ppbv		59.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.30	0.20	0.042	ppbv		1.7	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	14.3	0.20	0.031	ppbv		62.1	0.87	ug/m3
95-47-6	106.2	o-Xylene	6.0	0.20	0.031	ppbv		26	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	20.3	0.20	0.031	ppbv		88.2	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	90%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	6006 CR		
Lab Sample ID:	JA81330-7	Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID: A358	Date Received: 07/19/11
Method:	TO-15	Percent Solids:	n/a
Project:	Lockheed Electronics Co, Watchung, NJ		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	BLDG 26 RV			
Lab Sample ID:	JA81330-8		Date Sampled:	07/19/11
Matrix:	AIR - Indoor Air Comp.	Summa ID:	A853	Date Received: 07/19/11
Method:	TO-15		Percent Solids:	n/a
Project:	Lockheed Electronics Co, Watchung, NJ			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W32815.D	1	07/20/11	YMH	n/a	n/a	VW1341
Run #2	W32836.D	1	07/21/11	YMH	n/a	n/a	VW1342

	Initial Volume
Run #1	400 ml
Run #2	200 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	62.1 ^a	0.40	0.073	ppbv		148 ^a	0.95	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	1.1	0.20	0.046	ppbv		3.5	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.16	0.20	0.032	ppbv	J	0.50	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.23	0.20	0.028	ppbv		1.1	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.63	0.20	0.037	ppbv		1.3	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.51	0.20	0.034	ppbv		1.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.18	0.20	0.043	ppbv	J	0.73	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.20	0.038	ppbv		2.3	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	0.18	0.20	0.025	ppbv	J	1.1	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BLDG 26 RV
Lab Sample ID: JA81330-8
Matrix: AIR - Indoor Air Comp. Summa ID: A853
Method: TO-15
Project: Lockheed Electronics Co, Watchung, NJ
Date Sampled: 07/19/11
Date Received: 07/19/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	72.2 ^a	1.0	0.19	ppbv		136 ^a	1.9	ug/m3
100-41-4	106.2	Ethylbenzene	3.2	0.20	0.031	ppbv		14	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.2	0.20	0.061	ppbv		7.9	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	6.4	0.20	0.024	ppbv		31	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.8	0.20	0.033	ppbv		7.4	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	1.6	0.20	0.044	ppbv		5.6	0.70	ug/m3
591-78-6	100	2-Hexanone	0.25	0.20	0.043	ppbv		1.0	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	8.6	0.20	0.059	ppbv		21	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.73	0.20	0.027	ppbv		2.5	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	7.3	0.20	0.048	ppbv		22	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.19	0.20	0.036	ppbv	J	0.78	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.60	0.20	0.027	ppbv		2.6	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.17	0.20	0.022	ppbv	J	0.93	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	13.6	0.20	0.024	ppbv		66.9	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	4.0	0.20	0.028	ppbv		20	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.50	0.20	0.028	ppbv		2.3	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.5	0.20	0.032	ppbv		11	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.2	0.040	0.028	ppbv		8.1	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	4.5	0.20	0.047	ppbv		13	0.59	ug/m3
108-88-3	92.14	Toluene	12.2	0.20	0.040	ppbv		46.0	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.36	0.20	0.042	ppbv		2.0	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	13.4	0.20	0.031	ppbv		58.2	0.87	ug/m3
95-47-6	106.2	o-Xylene	5.8	0.20	0.031	ppbv		25	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	19.1	0.20	0.031	ppbv		83.0	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	92%	65-128%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: BLDG 26 RV**Lab Sample ID:** JA81330-8**Date Sampled:** 07/19/11**Matrix:** AIR - Indoor Air Comp.Summa ID: A853**Date Received:** 07/19/11**Method:** TO-15**Percent Solids:** n/a**Project:** Lockheed Electronics Co, Watchung, NJ

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2011 MDL Study - Method: TO-15

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job #

PAGE 1 OF 1

Company Name TRC Environmental Corp.		Project Name Former LEC Facility		Temperature (Fahrenheit)		Requested Analysis											
Address 57 E. Willow St		Street Route 22 West		Start: 83 Maximum: 92		TO-15											
City Millburn State NJ Zip 07041		City Watchung State NJ		Stop: 86 Minimum: 72													
Project Contact Steve Tappert E-mail stappert@trcsolutions.com		Project # 116473.0000		Atmospheric Pressure (inches of Hg) Start: 29.88 Maximum: 29.88													
Phone # 973-564-6006 Fax # 973-564-6442		Client Purchase Order # 35332		Stop: 29.82 Minimum: 29.80													
Sampler(s) Name(s) Scott McCray				Other weather comment:													
Air Type		Sampling Equipment Info		Start Sampling Information		Stop Sampling Information											
Lab Sample #	Field ID / Point of Collection	Indoor (I) Soil Vap (SV) Ambient (A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24 hr clock)	Canister Pressure (Psi)	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	Canister Pressure (Psi)	Interior Temp (F)	Sampler Init.		
1	7006 CR	I	A190	6L	FC507	7/18/11	1010	30	72	OK	7/19/11	1013	3	72	OK	X	
2	7007 CR	I	A089	6L	FC542	7/18/11	1016	30	74	OK	7/19/11	1016	850	74	OK	X	
3	12002 CR	I	A147	6L	FC514	7/18/11	1009	30	72	OK	7/19/11	1023	6	75	OK	X	
4	12003 CR	I	A661	6L	FC488	7/18/11	1035	28	74	OK	7/19/11	1026	4	74	OK	X	
5	6007 CR	I	A365	6L	FC525	7/18/11	1050	29	70	OK	7/19/11	1052	274	73	OK	X	
6	Bldg 3 4th flg CR	I	A039	6L	FC491	7/18/11	1100	30	70	OK	7/19/11	1045	6	70	OK	X	
7	6006 CR	I	A358	6L	FC436	7/18/11	1210	30	70	OK	7/19/11	1033	7	73	OK	X	
8	Bldg 36 basement RV	I	A853	6L	FC445	7/18/11	1200	30	68	OK	7/19/11	1133	3	68	OK	X	
Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks													
Standard - 15 Days		Approved By: <i>[Signature]</i>		All NJDEP TO-15 is mandatory Full T1		Comm A		Comm B		Reduced T2		Full T1		Other:		RECD 2 SEALED BOXES 7-19-11 AFK SUMM	
10 Day		Date: 7/19/11															
5 Day																	
3 Day																	
2 Day		X															
1 Day																	
Other																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Laboratory		Date/Time		Received by		Date/Time		Relinquished by		Date/Time		Received by		Date/Time		Received by	
1 John C. Polunski		7/13/11 8:00		Chris		7/19/11		2 [Signature]		7/19/11		G/Kreg		7/19/11		G/Kreg	
Relinquished by: [Signature]		Date/Time: 7/19/11		Received by: [Signature]		Date/Time: 7/19/11		Relinquished by: [Signature]		Date/Time: 7/19/11		Received by: [Signature]		Date/Time: 7/19/11		Received by: [Signature]	
Relinquished by: [Signature]		Date/Time: 7/19/11		Received by: [Signature]		Date/Time: 7/19/11		Relinquished by: [Signature]		Date/Time: 7/19/11		Received by: [Signature]		Date/Time: 7/19/11		Received by: [Signature]	
5								Custody Seal #		8 and 10							

JA81330: Chain of Custody

Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA81330

Client:

Date / Time Received: 7/19/2011

Project:

No. Coolers: 0

Airbill #'s:

Delivery Method:

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | | |
| 3. Cooler media: | | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | | Intact |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JA81330: Chain of Custody

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Summa Canister and Flow Controller Log

Page 1 of 1

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ
Received: 07/19/11

SUMMA CANISTERS												
Shipping							Receiving					
Summa ID	Vac L	Date " Hg Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A190	6	29.4	07/13/11	TVW	CP4875	W32412.D	JA81330-1	07/20/11	TVW	3		1
A089	6	29.4	07/13/11	TVW	CP4875	W32412.D	JA81330-2	07/20/11	TVW	1.5		1
A147	6	29.4	07/13/11	TVW	CP4876	3W23024.D	JA81330-3	07/20/11	TVW	5		1
A661	6	29.4	07/13/11	TVW	CP4875	W32412.D	JA81330-4	07/20/11	TVW	2		1
A365	6	29.4	07/13/11	TVW	CP4876	3W23024.D	JA81330-5	07/20/11	TVW	5		1
A039	6	29.4	07/13/11	TVW	CP4876	3W23024.D	JA81330-6	07/20/11	TVW	6.5		1
A358	6	29.4	07/13/11	TVW	CP4876	3W23024.D	JA81330-7	07/20/11	TVW	6		1
A853	6	29.4	07/13/11	TVW	CP4876	3W23024.D	JA81330-8	07/20/11	TVW	3		1

FLOW CONTROLLERS								
Shipping					Receiving			
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	
FC445	07/13/11	TVW	3.4	24	07/20/11	TVW	4.2	
FC456	07/13/11	TVW	3.4	24	07/20/11	TVW	3.6	
FC488	07/13/11	TVW	3.4	24	07/20/11	TVW	3.3	
FC491	07/13/11	TVW	3.4	24	07/20/11	TVW	3.8	
FC507	07/13/11	TVW	3.4	24	07/20/11	TVW	4	
FC514	07/13/11	TVW	3.4	24	07/20/11	TVW	3.8	
FC525	07/13/11	TVW	3.4	24	07/20/11	TVW	3.8	
FC542	07/13/11	TVW	3.4	24	07/20/11	TVW	4.2	

Accutest Bottle Order(s):

MC-7/11/2011-13

Prep Date 07/13/11 **Room Temp(F)** 68 **Bar Pres "Hg** 29.62

Internal Sample Tracking Chronicle

TRC

Job No: JA81330

Lockheed Electronics Co, Watchung, NJ
 Project No: 116473.0000 PO#35332

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA81330-1 Collected: 19-JUL-11 10:13 By: SM Received: 19-JUL-11 By: MPC 7006 CR						
JA81330-1	TO-15	20-JUL-11 14:05	YMH			VTO15STD
JA81330-1	TO-15	20-JUL-11 20:15	YMH			VTO15STD
JA81330-2 Collected: 19-JUL-11 10:16 By: SM Received: 19-JUL-11 By: MPC 7007 CR						
JA81330-2	TO-15	20-JUL-11 14:46	YMH			VTO15STD
JA81330-2	TO-15	20-JUL-11 20:56	YMH			VTO15STD
JA81330-3 Collected: 19-JUL-11 10:23 By: SM Received: 19-JUL-11 By: MPC 12002 CR						
JA81330-3	TO-15	20-JUL-11 15:28	YMH			VTO15STD
JA81330-3	TO-15	20-JUL-11 21:37	YMH			VTO15STD
JA81330-4 Collected: 19-JUL-11 10:26 By: SM Received: 19-JUL-11 By: MPC 12003 CR						
JA81330-4	TO-15	20-JUL-11 16:09	YMH			VTO15STD
JA81330-4	TO-15	20-JUL-11 22:17	YMH			VTO15STD
JA81330-5 Collected: 19-JUL-11 10:37 By: SM Received: 19-JUL-11 By: MPC 6007 CR						
JA81330-5	TO-15	20-JUL-11 16:50	YMH			VTO15STD
JA81330-5	TO-15	21-JUL-11 12:53	YMH			VTO15STD
JA81330-6 Collected: 19-JUL-11 10:45 By: SM Received: 19-JUL-11 By: MPC BLDG 3 CR						
JA81330-6	TO-15	20-JUL-11 18:12	YMH			VTO15STD
JA81330-6	TO-15	21-JUL-11 13:34	YMH			VTO15STD
JA81330-7 Collected: 19-JUL-11 10:33 By: SM Received: 19-JUL-11 By: MPC 6006 CR						
JA81330-7	TO-15	20-JUL-11 18:53	YMH			VTO15STD

Internal Sample Tracking Chronicle

TRC

Job No: JA81330

Lockheed Electronics Co, Watchung, NJ
Project No: 116473.0000 PO#35332

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA81330-7	TO-15	21-JUL-11 14:15	YMH			VTO15STD
JA81330-8 Collected: 19-JUL-11 11:33 By: SM Received: 19-JUL-11 By: MPC BLDG 26 RV						
JA81330-8	TO-15	20-JUL-11 19:34	YMH			VTO15STD
JA81330-8	TO-15	21-JUL-11 14:57	YMH			VTO15STD

Accutest Internal Chain of Custody

Page 1 of 1

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ
Received: 07/19/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA81330-1.1	Tim Hudson	Air Storage	07/19/11 18:58	Return to Storage
JA81330-1.1	Dave Hunkele		08/24/11 13:12	Disposed
JA81330-2.1	Tim Hudson	Air Storage	07/19/11 18:58	Return to Storage
JA81330-2.1	Dave Hunkele		08/24/11 13:12	Disposed
JA81330-3.1	Tim Hudson	Air Storage	07/19/11 18:58	Return to Storage
JA81330-3.1	Dave Hunkele		08/24/11 13:12	Disposed
JA81330-4.1	Tim Hudson	Air Storage	07/19/11 18:58	Return to Storage
JA81330-4.1	Dave Hunkele		08/24/11 13:12	Disposed
JA81330-5.1	Tim Hudson	Air Storage	07/19/11 18:58	Return to Storage
JA81330-5.1	Air Storage	Youmin Hu	07/21/11 16:34	Retrieve from Storage
JA81330-5.1	Youmin Hu	GCMSW	07/21/11 16:34	Load on Instrument
JA81330-5.1	GCMSW	Youmin Hu	07/22/11 10:20	Unload from Instrument
JA81330-5.1	Youmin Hu	Air Storage	07/22/11 10:20	Return to Storage
JA81330-5.1	Dave Hunkele		08/24/11 13:12	Disposed
JA81330-6.1	Tim Hudson	Air Storage	07/19/11 18:58	Return to Storage
JA81330-6.1	Air Storage	Youmin Hu	07/21/11 16:34	Retrieve from Storage
JA81330-6.1	Youmin Hu	GCMSW	07/21/11 16:34	Load on Instrument
JA81330-6.1	GCMSW	Youmin Hu	07/22/11 10:20	Unload from Instrument
JA81330-6.1	Youmin Hu	Air Storage	07/22/11 10:20	Return to Storage
JA81330-6.1	Dave Hunkele		08/24/11 13:12	Disposed
JA81330-7.1	Tim Hudson	Air Storage	07/19/11 18:58	Return to Storage
JA81330-7.1	Air Storage	Youmin Hu	07/21/11 16:34	Retrieve from Storage
JA81330-7.1	Youmin Hu	GCMSW	07/21/11 16:34	Load on Instrument
JA81330-7.1	GCMSW	Youmin Hu	07/22/11 10:20	Unload from Instrument
JA81330-7.1	Youmin Hu	Air Storage	07/22/11 10:20	Return to Storage
JA81330-7.1	Dave Hunkele		08/24/11 13:12	Disposed
JA81330-8.1	Tim Hudson	Air Storage	07/19/11 18:58	Return to Storage
JA81330-8.1	Air Storage	Youmin Hu	07/21/11 16:34	Retrieve from Storage
JA81330-8.1	Youmin Hu	GCMSW	07/21/11 16:34	Load on Instrument
JA81330-8.1	GCMSW	Youmin Hu	07/22/11 10:20	Unload from Instrument
JA81330-8.1	Youmin Hu	Air Storage	07/22/11 10:20	Return to Storage
JA81330-8.1	Dave Hunkele		08/24/11 13:12	Disposed

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method:
Instrument(s):
Analyst:

TO-15 (VTO14/15)
GCMS2W, GCMS3W, GCMSW
Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April, 2011

Cmpd./Element/Param. Name	Analysis Date	Spike ppbv	Replicate Spikes							X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
			R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv					
Acetone	26-Apr-11	0.2	0.21	0.19	0.17	0.20	0.19	0.20	0.19	0.19	96.84	0.012	0.036	5.50
Acrolein	30-Mar-11	0.1	0.09	0.11	0.10	0.10	0.10	0.09	0.08	0.08	94.00	0.009	0.029	3.50
Acrylonitrile	8-Apr-11	0.2	0.16	0.18	0.15	0.15	0.18	0.14	0.18	0.16	81.40	0.017	0.054	3.73
Acetonitrile	8-Apr-11	0.2	0.18	0.15	0.16	0.17	0.18	0.18	0.16	0.16	79.48	0.024	0.077	2.61
1,3-Butadiene	8-Apr-11	0.1	0.10	0.10	0.12	0.11	0.10	0.11	0.11	0.11	105.69	0.008	0.024	4.11
Benzene	30-Mar-11	0.1	0.11	0.14	0.12	0.13	0.11	0.10	0.11	0.12	117.81	0.015	0.046	2.17
Bromodichloromethane	19-Mar-11	0.1	0.10	0.10	0.10	0.10	0.11	0.12	0.10	0.11	105.36	0.010	0.030	3.35
Bromoform	30-Mar-11	0.1	0.09	0.12	0.10	0.11	0.10	0.08	0.09	0.10	98.18	0.012	0.037	2.69
Bromomethane	26-Apr-11	0.2	0.24	0.22	0.21	0.22	0.22	0.21	0.20	0.22	108.08	0.012	0.037	5.44
Bromoethane	26-Apr-11	0.2	0.24	0.21	0.20	0.23	0.22	0.21	0.21	0.22	107.98	0.012	0.037	5.45
n-Butane	30-Mar-11	0.1	0.12	0.15	0.13	0.14	0.13	0.11	0.12	0.13	128.52	0.014	0.043	2.35
Benzyl Chloride	8-Apr-11	0.2	0.14	0.11	0.12	0.11	0.11	0.12	0.11	0.12	59.31	0.013	0.041	4.92
n-Butylbenzene	8-Apr-11	0.2	0.12	0.08	0.10	0.07	0.08	0.09	0.07	0.09	43.75	0.017	0.052	3.82
sec-Butylbenzene	26-Apr-11	0.2	0.18	0.16	0.16	0.17	0.17	0.17	0.16	0.17	82.83	0.009	0.027	7.49
tert-Butylbenzene	26-Apr-11	0.2	0.17	0.16	0.17	0.18	0.16	0.16	0.17	0.17	82.85	0.009	0.028	7.05
Carbon disulfide	26-Apr-11	0.2	0.23	0.20	0.20	0.22	0.20	0.20	0.20	0.21	103.61	0.010	0.032	6.17
Chlorobenzene	26-Apr-11	0.2	0.22	0.19	0.20	0.20	0.19	0.20	0.19	0.20	99.78	0.009	0.027	7.44
Chlorodifluoromethane	19-Mar-11	0.1	0.10	0.12	0.14	0.12	0.13	0.14	0.10	0.12	121.74	0.014	0.045	2.24
Chloroethane	26-Apr-11	0.2	0.22	0.21	0.19	0.20	0.19	0.21	0.19	0.20	100.57	0.013	0.039	5.11
Chloroform	26-Apr-11	0.2	0.23	0.21	0.21	0.22	0.21	0.22	0.21	0.22	107.49	0.009	0.028	7.16
Chloromethane	26-Apr-11	0.2	0.22	0.20	0.19	0.21	0.21	0.22	0.20	0.21	103.37	0.012	0.037	5.42
3-Chloropropene	26-Apr-11	0.2	0.21	0.17	0.19	0.19	0.18	0.18	0.18	0.19	93.38	0.013	0.041	4.85
2-Chlorotoluene	26-Apr-11	0.2	0.20	0.18	0.17	0.19	0.18	0.19	0.18	0.18	92.14	0.010	0.031	6.42
Carbon tetrachloride	26-Apr-11	0.2	0.24	0.20	0.21	0.22	0.21	0.22	0.21	0.22	107.53	0.013	0.040	5.07
Cyclohexane	26-Apr-11	0.2	0.23	0.21	0.21	0.21	0.20	0.20	0.20	0.21	105.14	0.011	0.034	5.98
1,1-Dichloroethane	26-Apr-11	0.2	0.22	0.20	0.20	0.22	0.20	0.21	0.20	0.21	103.88	0.009	0.028	7.14
1,1-Dichloroethylene	26-Apr-11	0.2	0.25	0.24	0.23	0.22	0.22	0.21	0.23	0.23	114.94	0.015	0.046	4.33
1,2-Dibromoethane	26-Apr-11	0.2	0.20	0.18	0.18	0.20	0.18	0.18	0.18	0.18	92.19	0.009	0.027	7.36
1,2-Dichloroethane	30-Mar-11	0.1	0.11	0.13	0.12	0.12	0.11	0.09	0.10	0.11	112.02	0.014	0.043	2.31
1,2-Dichloropropane	8-Apr-11	0.2	0.23	0.23	0.20	0.22	0.24	0.24	0.22	0.23	112.51	0.012	0.038	5.21
1,4-Dioxane	8-Apr-11	0.2	0.23	0.18	0.19	0.19	0.18	0.19	0.20	0.19	97.28	0.018	0.056	3.56
Dichlorodifluoromethane	26-Apr-11	0.2	0.26	0.23	0.23	0.26	0.24	0.25	0.23	0.24	121.94	0.012	0.038	5.31
Dibromochloromethane	26-Apr-11	0.2	0.21	0.19	0.18	0.20	0.19	0.19	0.19	0.19	96.93	0.009	0.027	7.42
trans-1,2-Dichloroethylene	8-Apr-11	0.2	0.22	0.21	0.21	0.19	0.22	0.22	0.21	0.21	106.29	0.011	0.033	6.07
cis-1,2-Dichloroethylene	26-Apr-11	0.2	0.21	0.19	0.19	0.20	0.17	0.19	0.19	0.19	96.41	0.012	0.038	5.29
cis-1,3-Dichloropropene	30-Mar-11	0.1	0.10	0.13	0.11	0.12	0.11	0.09	0.10	0.11	108.98	0.014	0.043	2.35
m-Dichlorobenzene	8-Apr-11	0.2	0.18	0.16	0.16	0.15	0.16	0.16	0.14	0.16	78.96	0.012	0.037	5.35

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMS2W, GCMS3W, GCMSW
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April, 2011

Cmpd./Element/Param. Name	Analysis Date	Spike ppbv	Replicate Spikes							X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
			R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv					
o-Dichlorobenzene	19-Mar-11	0.1	0.11	0.10	0.10	0.10	0.11	0.12	0.10	0.10	104.52	0.009	0.027	3.76
p-Dichlorobenzene	19-Mar-11	0.1	0.11	0.09	0.10	0.10	0.11	0.12	0.10	0.10	102.56	0.008	0.025	4.02
trans-1,3-Dichloropropene	8-Apr-11	0.2	0.22	0.19	0.19	0.20	0.22	0.22	0.20	0.21	103.35	0.012	0.039	5.13
Diisopropyl ether	26-Apr-11	0.2	0.19	0.17	0.16	0.18	0.17	0.17	0.17	0.17	86.86	0.010	0.032	6.25
2,3-Dimethylpentane	19-Mar-11	0.2	0.28	0.25	0.25	0.32	0.26	0.30	0.25	0.27	136.99	0.028	0.088	2.27
2,4-Dimethylpentane	26-Apr-11	0.2	0.21	0.18	0.18	0.18	0.18	0.18	0.18	0.18	91.44	0.011	0.036	5.58
Ethanol	19-Mar-11	0.2	0.42	0.34	0.35	0.41	0.35	0.40	0.39	0.38	189.62	0.030	0.095	2.11
Ethylbenzene	26-Apr-11	0.2	0.21	0.18	0.18	0.19	0.18	0.18	0.18	0.19	93.63	0.010	0.031	6.53
Ethyl Acetate	8-Apr-11	0.2	0.19	0.15	0.15	0.14	0.16	0.19	0.17	0.17	82.73	0.019	0.061	3.28
4-Ethyltoluene	19-Mar-11	0.1	0.09	0.09	0.09	0.08	0.10	0.10	0.08	0.09	91.03	0.008	0.024	4.14
Freon 113	8-Apr-11	0.2	0.22	0.21	0.20	0.21	0.23	0.23	0.20	0.21	107.47	0.011	0.034	5.88
Freon 114	26-Apr-11	0.2	0.24	0.22	0.21	0.22	0.22	0.22	0.21	0.22	110.03	0.010	0.031	6.49
Freon 115	8-Apr-11	0.1	0.09	0.09	0.10	0.09	0.11	0.09	0.09	0.09	93.33	0.007	0.021	4.71
Freon 123	26-Apr-11	0.2	0.22	0.20	0.19	0.22	0.20	0.20	0.20	0.20	102.35	0.012	0.036	5.54
Freon 123A	26-Apr-11	0.2	0.24	0.20	0.20	0.20	0.21	0.21	0.21	0.21	107.18	0.011	0.034	5.88
Freon 152A	19-Mar-11	0.2	0.29	0.27	0.27	0.34	0.27	0.31	0.28	0.29	145.07	0.027	0.085	2.36
Heptane	26-Apr-11	0.2	0.20	0.17	0.18	0.19	0.18	0.17	0.17	0.18	90.97	0.011	0.033	5.99
Hexachlorobutadiene	19-Mar-11	0.1	0.11	0.10	0.10	0.11	0.14	0.14	0.11	0.12	116.17	0.015	0.046	2.18
Hexachloroethane	19-Mar-11	0.1	0.09	0.09	0.09	0.09	0.10	0.11	0.09	0.10	97.22	0.008	0.026	3.85
Hexane	26-Apr-11	0.2	0.23	0.20	0.20	0.20	0.20	0.19	0.20	0.20	101.87	0.014	0.044	4.53
2-Hexanone	8-Apr-11	0.2	0.06	0.02	0.04	0.04	0.03	0.05	0.05	0.04	21.17	0.014	0.043	4.69
Iodomethane	26-Apr-11	0.2	0.22	0.20	0.19	0.21	0.20	0.20	0.20	0.20	101.70	0.011	0.033	6.00
Isopropylbenzene	19-Mar-11	0.1	0.10	0.10	0.10	0.09	0.11	0.11	0.09	0.10	99.67	0.010	0.031	3.23
Isopropyl Alcohol	8-Apr-11	0.2	0.20	0.20	0.20	0.17	0.20	0.23	0.22	0.20	100.86	0.019	0.059	3.42
p-Isopropyltoluene	8-Apr-11	0.1	0.06	0.06	0.06	0.06	0.04	0.04	0.06	0.05	54.40	0.012	0.037	2.72
Methylene chloride	19-Mar-11	0.1	0.16	0.16	0.16	0.16	0.17	0.18	0.16	0.16	163.90	0.009	0.027	3.68
Methyl ethyl ketone	19-Mar-11	0.1	0.08	0.09	0.09	0.09	0.08	0.10	0.12	0.10	93.27	0.015	0.048	2.10
Methyl Isobutyl Ketone	8-Apr-11	0.2	0.19	0.16	0.15	0.16	0.17	0.17	0.17	0.16	82.42	0.012	0.036	5.53
Methyl Tert Butyl Ether	26-Apr-11	0.2	0.21	0.20	0.20	0.20	0.18	0.19	0.20	0.20	98.76	0.009	0.027	7.32
Methylmethacrylate	8-Apr-11	0.2	0.20	0.18	0.17	0.17	0.17	0.21	0.18	0.18	92.17	0.014	0.043	4.67
Naphthalene	8-Apr-11	0.2	0.10	0.09	0.08	0.08	0.09	0.08	0.07	0.09	42.89	0.010	0.031	6.42
Nonane	19-Mar-11	0.1	0.10	0.10	0.09	0.09	0.11	0.11	0.09	0.10	100.00	0.008	0.026	3.83
Octane	8-Apr-11	0.2	0.22	0.21	0.21	0.20	0.22	0.22	0.21	0.21	106.25	0.009	0.027	7.42
Pentane	26-Apr-11	0.2	0.21	0.19	0.18	0.20	0.19	0.21	0.18	0.20	97.52	0.012	0.037	5.34
n-Propylbenzene	26-Apr-11	0.2	0.27	0.25	0.26	0.31	0.29	0.30	0.30	0.28	141.98	0.022	0.030	6.68
Propylene	19-Mar-11	0.2	0.09	0.09	0.08	0.08	0.09	0.10	0.08	0.09	86.67	0.009	0.027	2.87
Styrene	19-Mar-11	0.1	0.23	0.22	0.22	0.23	0.22	0.23	0.22	0.22	112.18	0.007	0.022	9.06
1,1,1-Trichloroethane	26-Apr-11	0.2	0.22	0.20	0.19	0.20	0.20	0.20	0.19	0.20	99.50	0.010	0.031	6.38
1,1,1,2-Tetrachloroethane	26-Apr-11	0.2	0.22	0.20	0.19	0.20	0.20	0.20	0.19	0.20	99.50	0.010	0.031	6.38
1,1,2,2-Tetrachloroethane	26-Apr-11	0.2	0.19	0.17	0.17	0.18	0.16	0.18	0.17	0.17	87.43	0.010	0.030	6.68

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMS2W, GCMS3W, GCMSW
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: April, 2011

Cmpd./Element/Param. Name	Analysis Date	Spike ppbv	Replicate Spikes							R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
			R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv							
	8-Apr-11	0.2	0.21	0.21	0.20	0.20	0.23	0.22	0.21	0.21	105.64	0.010	0.030	6.67	
1,1,2-Trichloroethane	30-Mar-11	0.1	0.10	0.08	0.09	0.09	0.05	0.10	0.09	0.07	0.08	82.29	0.016	0.051	1.95
1,2,4-Trichlorobenzene	19-Mar-11	0.1	0.10	0.10	0.09	0.09	0.09	0.11	0.12	0.09	0.10	99.59	0.011	0.033	3.00
1,2,3-Trichloropropane	19-Mar-11	0.1	0.10	0.09	0.08	0.09	0.09	0.10	0.10	0.08	0.09	91.56	0.008	0.024	4.16
1,2,4-Trimethylbenzene	19-Mar-11	0.1	0.09	0.10	0.08	0.09	0.10	0.10	0.11	0.08	0.09	93.61	0.009	0.028	3.57
1,3,5-Trimethylbenzene	26-Apr-11	0.2	0.20	0.18	0.17	0.19	0.18	0.18	0.18	0.18	0.18	92.02	0.009	0.028	7.08
2,2,4-Trimethylpentane	8-Apr-11	0.2	0.22	0.20	0.20	0.20	0.21	0.20	0.20	0.19	0.20	102.18	0.010	0.032	6.28
Tertiary Butyl Alcohol	26-Apr-11	0.2	0.22	0.20	0.20	0.21	0.20	0.20	0.22	0.21	0.21	104.63	0.009	0.028	7.07
Tetrachloroethylene	26-Apr-11	0.2	0.20	0.17	0.17	0.18	0.17	0.17	0.16	0.16	0.17	86.53	0.015	0.047	4.28
Tetrahydrofuran	26-Apr-11	0.2	0.21	0.18	0.18	0.19	0.18	0.17	0.17	0.17	0.18	91.60	0.013	0.040	4.98
Toluene	19-Mar-11	0.1	0.11	0.10	0.10	0.10	0.10	0.11	0.13	0.10	0.11	107.16	0.010	0.033	3.07
Trichloroethylene	30-Mar-11	0.1	0.11	0.14	0.13	0.14	0.12	0.11	0.11	0.11	0.12	121.71	0.014	0.042	2.36
Trichlorofluoromethane	26-Apr-11	0.2	0.23	0.20	0.21	0.23	0.22	0.22	0.22	0.21	0.22	108.07	0.010	0.032	6.24
Vinyl chloride	8-Apr-11	0.2	0.14	0.13	0.09	0.12	0.10	0.12	0.12	0.13	0.12	59.21	0.018	0.057	3.54
Vinyl Acetate	30-Mar-11	0.1	0.20	0.25	0.21	0.24	0.21	0.18	0.19	0.19	0.21	209.80	0.025	0.079	1.27
m,p-Xylene	26-Apr-11	0.2	0.20	0.17	0.17	0.19	0.18	0.17	0.17	0.17	0.18	89.89	0.010	0.031	6.43
o-Xylene	19-Mar-11	0.2	0.20	0.13	0.24	0.32	0.20	0.20	0.20	0.16	0.21	103.69	0.058	0.182	1.10
TVHC As Equiv Pentane	19-Mar-11	0.2	0.19	0.13	0.15	0.19	0.13	0.20	0.20	0.15	0.16	81.58	0.029	0.091	2.20
TVHC As Equiv Heptane															

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1341-MB	W32803.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples:

Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1341-MB	W32803.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples:

Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1341-MB	W32803.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples: Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	89% 65-128%

Method Blank Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1342-MB	W32832.D	1	07/21/11	YMH	n/a	n/a	VW1342

The QC reported here applies to the following samples:

Method: TO-15

JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	89% 65-128%

Method Blank Summary**Job Number:** JA81330**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-MB	W32389.D	1	06/23/11	YMH	n/a	n/a	VW1324

The QC reported here applies to the following samples:**Method:** TO-15

VW1324-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-MB	W32389.D	1	06/23/11	YMH	n/a	n/a	VW1324

The QC reported here applies to the following samples:

Method: TO-15

VW1324-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-MB	W32389.D	1	06/23/11	YMH	n/a	n/a	VW1324

The QC reported here applies to the following samples: Method: TO-15

VW1324-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	94% 65-128%

Method Blank Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-MB	3W23021.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here applies to the following samples:

Method: TO-15

V3W910-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-MB	3W23021.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here applies to the following samples:

Method: TO-15

V3W910-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-MB	3W23021.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here applies to the following samples: Method: TO-15

V3W910-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	95% 65-128%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1341-BS	W32801.D	1	07/20/11	YMH	n/a	n/a	VW1341
VW1341-BSD	W32802.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples:

Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.1	91	9.3	93	2	70-130/30
106-99-0	1,3-Butadiene	10	9.6	96	9.3	93	3	70-130/30
71-43-2	Benzene	10	10.2	102	10.2	102	0	70-130/30
75-27-4	Bromodichloromethane	10	10	100	10	100	0	70-130/30
75-25-2	Bromoform	10	9.8	98	10.8	108	10	70-130/30
74-83-9	Bromomethane	10	9.8	98	9.6	96	2	70-130/30
593-60-2	Bromoethene	10	9.8	98	9.8	98	0	70-130/30
100-44-7	Benzyl Chloride	10	10.5	105	11.5	115	9	70-130/30
75-15-0	Carbon disulfide	10	11.2	112	10.9	109	3	70-130/30
108-90-7	Chlorobenzene	10	9.8	98	10.6	106	8	70-130/30
75-00-3	Chloroethane	10	10.0	100	9.7	97	3	70-130/30
67-66-3	Chloroform	10	9.6	96	9.4	94	2	70-130/30
74-87-3	Chloromethane	10	9.9	99	9.6	96	3	70-130/30
107-05-1	3-Chloropropene	10	10.4	104	10.3	103	1	70-130/30
95-49-8	2-Chlorotoluene	10	9.7	97	10.7	107	10	70-130/30
56-23-5	Carbon tetrachloride	10	8.8	88	8.7	87	1	70-130/30
110-82-7	Cyclohexane	10	9.6	96	9.6	96	0	70-130/30
75-34-3	1,1-Dichloroethane	10	9.8	98	9.5	95	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.5	95	9.4	94	1	70-130/30
106-93-4	1,2-Dibromoethane	10	10	100	10.9	109	9	70-130/30
107-06-2	1,2-Dichloroethane	10	9.6	96	9.4	94	2	70-130/30
78-87-5	1,2-Dichloropropane	10	9.7	97	9.8	98	1	70-130/30
123-91-1	1,4-Dioxane	10	10.0	100	10.4	104	4	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.6	86	8.5	85	1	70-130/30
124-48-1	Dibromochloromethane	10	9.8	98	10.4	104	6	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.9	99	9.8	98	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.3	93	9.2	92	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.8	98	10.2	102	4	70-130/30
541-73-1	m-Dichlorobenzene	10	10.2	102	11.5	115	12	70-130/30
95-50-1	o-Dichlorobenzene	10	9.8	98	10.9	109	11	70-130/30
106-46-7	p-Dichlorobenzene	10	10.1	101	11.1	111	9	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.7	97	9.9	99	2	70-130/30
64-17-5	Ethanol	10	8.7	87	8.7	87	0	70-130/30
100-41-4	Ethylbenzene	10	10.1	101	10.8	108	7	70-130/30
141-78-6	Ethyl Acetate	10	9.7	97	9.9	99	2	70-130/30
622-96-8	4-Ethyltoluene	10	10.1	101	11.1	111	9	70-130/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1341-BS	W32801.D	1	07/20/11	YMH	n/a	n/a	VW1341
VW1341-BSD	W32802.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples:

Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	8.3	83	8.4	84	1	70-130/30
76-14-2	Freon 114	10	8.3	83	8.1	81	2	70-130/30
142-82-5	Heptane	10	10.7	107	10.5	105	2	70-130/30
87-68-3	Hexachlorobutadiene	10	9.6	96	11.2	112	15	70-130/30
110-54-3	Hexane	10	10.6	106	10.3	103	3	70-130/30
591-78-6	2-Hexanone	10	10.8	108	10.9	109	1	70-130/30
67-63-0	Isopropyl Alcohol	10	9.8	98	9.7	97	1	70-130/30
75-09-2	Methylene chloride	10	9.5	95	9.6	96	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.5	95	9.9	99	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.9	109	10.8	108	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.7	87	9.0	90	3	70-130/30
80-62-6	Methylmethacrylate	10	9.4	94	9.8	98	4	70-130/30
115-07-1	Propylene	10	8.3	83	8.0	80	4	70-130/30
100-42-5	Styrene	10	10.3	103	11.2	112	8	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.0	90	8.9	89	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.9	109	11.7	117	7	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.1	101	10.4	104	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.7	107	12.5	125	16	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.9	99	10.9	109	10	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.6	96	10.5	105	9	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	11.1	111	10.9	109	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.3	103	10.2	102	1	70-130/30
127-18-4	Tetrachloroethylene	10	9.7	97	10.3	103	6	70-130/30
109-99-9	Tetrahydrofuran	10	9.7	97	10.1	101	4	70-130/30
108-88-3	Toluene	10	9.7	97	10.1	101	4	70-130/30
79-01-6	Trichloroethylene	10	10.1	101	10.2	102	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.2	92	9.1	91	1	70-130/30
75-01-4	Vinyl chloride	10	10.3	103	10.0	100	3	70-130/30
108-05-4	Vinyl Acetate	10	9.2	92	9.5	95	3	70-130/30
	m,p-Xylene	20	20.2	101	21.8	109	8	70-130/30
95-47-6	o-Xylene	10	9.9	99	10.8	108	9	70-130/30
1330-20-7	Xylenes (total)	30	30.1	100	32.6	109	8	70-130/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1341-BS	W32801.D	1	07/20/11	YMH	n/a	n/a	VW1341
VW1341-BSD	W32802.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples:

Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	93%	94%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: JA81330**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1342-BS	W32830.D	1	07/21/11	YMH	n/a	n/a	VW1342
VW1342-BSD	W32831.D	1	07/21/11	YMH	n/a	n/a	VW1342

The QC reported here applies to the following samples:**Method:** TO-15

JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.6	96	9.4	94	2	70-130/30
64-17-5	Ethanol	10	9.0	90	8.2	82	9	70-130/30
67-63-0	Isopropyl Alcohol	10	10.0	100	9.4	94	6	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	92%	92%	65-128%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-BS	W32387.D	1	06/23/11	YMH	n/a	n/a	VW1324
VW1324-BSD	W32388.D	1	06/23/11	YMH	n/a	n/a	VW1324

The QC reported here applies to the following samples:

Method: TO-15

VW1324-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.5	85	10.1	101	17	70-130/30
106-99-0	1,3-Butadiene	10	9.1	91	10.6	106	15	70-130/30
71-43-2	Benzene	10	9.2	92	10.8	108	16	70-130/30
75-27-4	Bromodichloromethane	10	9.2	92	10.8	108	16	70-130/30
75-25-2	Bromoform	10	9.7	97	11.5	115	17	70-130/30
74-83-9	Bromomethane	10	9.0	90	10.4	104	14	70-130/30
593-60-2	Bromoethene	10	9.0	90	10.4	104	14	70-130/30
100-44-7	Benzyl Chloride	10	10.4	104	12.9	129	21	70-130/30
75-15-0	Carbon disulfide	10	9.8	98	11.3	113	14	70-130/30
108-90-7	Chlorobenzene	10	9.3	93	10.9	109	16	70-130/30
75-00-3	Chloroethane	10	9.4	94	10.8	108	14	70-130/30
67-66-3	Chloroform	10	9.0	90	10.4	104	14	70-130/30
74-87-3	Chloromethane	10	9.4	94	10.8	108	14	70-130/30
107-05-1	3-Chloropropene	10	9.4	94	11.1	111	17	70-130/30
95-49-8	2-Chlorotoluene	10	9.8	98	11.7	117	18	70-130/30
56-23-5	Carbon tetrachloride	10	8.9	89	10.3	103	15	70-130/30
110-82-7	Cyclohexane	10	8.6	86	10.2	102	17	70-130/30
75-34-3	1,1-Dichloroethane	10	9.1	91	10.6	106	15	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.3	83	9.6	96	15	70-130/30
106-93-4	1,2-Dibromoethane	10	9.4	94	11.1	111	17	70-130/30
107-06-2	1,2-Dichloroethane	10	9.5	95	11.0	110	15	70-130/30
78-87-5	1,2-Dichloropropane	10	9.1	91	10.6	106	15	70-130/30
123-91-1	1,4-Dioxane	10	8.2	82	10.5	105	25	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.1	91	10.4	104	13	70-130/30
124-48-1	Dibromochloromethane	10	9.4	94	11.0	110	16	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.1	91	10.6	106	15	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.4	84	9.8	98	15	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.3	93	11.0	110	17	70-130/30
541-73-1	m-Dichlorobenzene	10	10.1	101	12.1	121	18	70-130/30
95-50-1	o-Dichlorobenzene	10	9.8	98	11.8	118	19	70-130/30
106-46-7	p-Dichlorobenzene	10	10	100	12.1	121	19	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.4	94	11.2	112	17	70-130/30
64-17-5	Ethanol	10	8.2	82	9.5	95	15	70-130/30
100-41-4	Ethylbenzene	10	9.8	98	11.6	116	17	70-130/30
141-78-6	Ethyl Acetate	10	8.9	89	10.8	108	19	70-130/30
622-96-8	4-Ethyltoluene	10	10.4	104	12.4	124	18	70-130/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-BS	W32387.D	1	06/23/11	YMH	n/a	n/a	VW1324
VW1324-BSD	W32388.D	1	06/23/11	YMH	n/a	n/a	VW1324

The QC reported here applies to the following samples:

Method: TO-15

VW1324-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	8.2	82	9.5	95	15	70-130/30
76-14-2	Freon 114	10	8.1	81	9.4	94	15	70-130/30
142-82-5	Heptane	10	9.1	91	10.6	106	15	70-130/30
87-68-3	Hexachlorobutadiene	10	10	100	12.1	121	19	70-130/30
110-54-3	Hexane	10	9.1	91	10.4	104	13	70-130/30
591-78-6	2-Hexanone	10	8.2	82	10.6	106	26	70-130/30
67-63-0	Isopropyl Alcohol	10	8.7	87	10.5	105	19	70-130/30
75-09-2	Methylene chloride	10	8.0	80	9.3	93	15	70-130/30
78-93-3	Methyl ethyl ketone	10	8.8	88	10.9	109	21	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.6	86	10.9	109	24	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.1	91	10.9	109	18	70-130/30
80-62-6	Methylmethacrylate	10	8.7	87	10.7	107	21	70-130/30
115-07-1	Propylene	10	8.6	86	9.8	98	13	70-130/30
100-42-5	Styrene	10	10.0	100	11.9	119	17	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.0	90	10.5	105	15	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.2	102	12.2	122	18	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.4	94	11.2	112	17	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.6	86	11.0	110	24	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.4	104	12.5	125	18	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.1	101	12.1	121	18	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.6	96	11.2	112	15	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.8	88	10.8	108	20	70-130/30
127-18-4	Tetrachloroethylene	10	8.7	87	10.1	101	15	70-130/30
109-99-9	Tetrahydrofuran	10	9.4	94	11.3	113	18	70-130/30
108-88-3	Toluene	10	9.3	93	11.0	110	17	70-130/30
79-01-6	Trichloroethylene	10	8.9	89	10.4	104	16	70-130/30
75-69-4	Trichlorofluoromethane	10	8.8	88	10.2	102	15	70-130/30
75-01-4	Vinyl chloride	10	9.5	95	11.0	110	15	70-130/30
108-05-4	Vinyl Acetate	10	9.1	91	10.8	108	17	70-130/30
	m,p-Xylene	20	19.4	97	22.9	115	17	70-130/30
95-47-6	o-Xylene	10	9.7	97	11.5	115	17	70-130/30
1330-20-7	Xylenes (total)	30	29.1	97	34.4	115	17	70-130/30

Blank Spike/Blank Spike Duplicate Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-BS	W32387.D	1	06/23/11	YMH	n/a	n/a	VW1324
VW1324-BSD	W32388.D	1	06/23/11	YMH	n/a	n/a	VW1324

The QC reported here applies to the following samples:

Method: TO-15

VW1324-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	104%	104%	65-128%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-BS	3W23019.D	1	06/24/11	YXC	n/a	n/a	V3W910
V3W910-BSD	3W23020.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here applies to the following samples:

Method: TO-15

V3W910-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.4	84	7.9	79	6	70-130/30
106-99-0	1,3-Butadiene	10	9.2	92	9.0	90	2	70-130/30
71-43-2	Benzene	10	9.8	98	10.2	102	4	70-130/30
75-27-4	Bromodichloromethane	10	10.1	101	10.5	105	4	70-130/30
75-25-2	Bromoform	10	9.3	93	9.6	96	3	70-130/30
74-83-9	Bromomethane	10	7.9	79	7.8	78	1	70-130/30
593-60-2	Bromoethene	10	8.3	83	8.1	81	2	70-130/30
100-44-7	Benzyl Chloride	10	10.1	101	10.1	101	0	70-130/30
75-15-0	Carbon disulfide	10	8.9	89	8.9	89	0	70-130/30
108-90-7	Chlorobenzene	10	8.8	88	9.1	91	3	70-130/30
75-00-3	Chloroethane	10	9.4	94	9.0	90	4	70-130/30
67-66-3	Chloroform	10	9.5	95	9.3	93	2	70-130/30
74-87-3	Chloromethane	10	8.8	88	8.5	85	3	70-130/30
107-05-1	3-Chloropropene	10	9.9	99	9.7	97	2	70-130/30
95-49-8	2-Chlorotoluene	10	9.5	95	9.8	98	3	70-130/30
56-23-5	Carbon tetrachloride	10	8.9	89	8.9	89	0	70-130/30
110-82-7	Cyclohexane	10	8.7	87	9.1	91	4	70-130/30
75-34-3	1,1-Dichloroethane	10	9.6	96	9.6	96	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	7.7	77	7.7	77	0	70-130/30
106-93-4	1,2-Dibromoethane	10	10	100	10.2	102	2	70-130/30
107-06-2	1,2-Dichloroethane	10	10.2	102	10.1	101	1	70-130/30
78-87-5	1,2-Dichloropropane	10	10.6	106	11.0	110	4	70-130/30
123-91-1	1,4-Dioxane	10	9.8	98	10.2	102	4	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.2	82	8.1	81	1	70-130/30
124-48-1	Dibromochloromethane	10	9.3	93	9.6	96	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.9	89	8.9	89	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.6	96	9.5	95	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.5	105	11.0	110	5	70-130/30
541-73-1	m-Dichlorobenzene	10	9.6	96	9.8	98	2	70-130/30
95-50-1	o-Dichlorobenzene	10	10	100	10.2	102	2	70-130/30
106-46-7	p-Dichlorobenzene	10	9.8	98	10.1	101	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.5	105	11.1	111	6	70-130/30
64-17-5	Ethanol	10	7.7	77	7.5	75	3	70-130/30
100-41-4	Ethylbenzene	10	9.5	95	9.7	97	2	70-130/30
141-78-6	Ethyl Acetate	10	9.8	98	9.6	96	2	70-130/30
622-96-8	4-Ethyltoluene	10	10.2	102	10.1	101	1	70-130/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-BS	3W23019.D	1	06/24/11	YXC	n/a	n/a	V3W910
V3W910-BSD	3W23020.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here applies to the following samples:

Method: TO-15

V3W910-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	7.2	72	7.0	70	3	70-130/30
76-14-2	Freon 114	10	7.2	72	7.1	71	1	70-130/30
142-82-5	Heptane	10	10.5	105	11.2	112	6	70-130/30
87-68-3	Hexachlorobutadiene	10	10.1	101	10.1	101	0	70-130/30
110-54-3	Hexane	10	9.2	92	9.2	92	0	70-130/30
591-78-6	2-Hexanone	10	10.6	106	10.9	109	3	70-130/30
67-63-0	Isopropyl Alcohol	10	8.9	89	8.8	88	1	70-130/30
75-09-2	Methylene chloride	10	7.4	74	7.2	72	3	70-130/30
78-93-3	Methyl ethyl ketone	10	9.5	95	9.1	91	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.3	113	11.7	117	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.7	87	8.3	83	5	70-130/30
80-62-6	Methylmethacrylate	10	9.7	97	9.9	99	2	70-130/30
115-07-1	Propylene	10	8.5	85	8.4	84	1	70-130/30
100-42-5	Styrene	10	9.6	96	9.9	99	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.5	95	9.5	95	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.4	104	10.4	104	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.3	103	10.8	108	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.1	91	9.1	91	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.4	104	10.4	104	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.1	101	9.9	99	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.3	103	10.8	108	5	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.0	100	9.7	97	3	70-130/30
127-18-4	Tetrachloroethylene	10	8.3	83	8.6	86	4	70-130/30
109-99-9	Tetrahydrofuran	10	9.5	95	8.8	88	8	70-130/30
108-88-3	Toluene	10	9.9	99	10.3	103	4	70-130/30
79-01-6	Trichloroethylene	10	9.4	94	9.8	98	4	70-130/30
75-69-4	Trichlorofluoromethane	10	8.1	81	8.0	80	1	70-130/30
75-01-4	Vinyl chloride	10	9.2	92	8.9	89	3	70-130/30
108-05-4	Vinyl Acetate	10	10.8	108	10	100	8	70-130/30
	m,p-Xylene	20	18.6	93	19.1	96	3	70-130/30
95-47-6	o-Xylene	10	9.6	96	9.7	97	1	70-130/30
1330-20-7	Xylenes (total)	30	28.2	94	28.8	96	2	70-130/30

Blank Spike/Blank Spike Duplicate Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-BS	3W23019.D	1	06/24/11	YXC	n/a	n/a	V3W910
V3W910-BSD	3W23020.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here applies to the following samples: Method: TO-15

V3W910-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	100%	65-128%

Duplicate Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA81330-5DUP	W32812.D	1	07/20/11	YMH	n/a	n/a	VW1341
JA81330-5	W32811.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples:

Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	JA81330-5 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone	94.3	E	94.1	E	0	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	0.62		0.63		2	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	0.14	J	0.14	J	0	11
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	0.88		0.85		3	12
74-87-3	Chloromethane	1.2		1.3		8	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	0.19	J	0.18	J	5	10
110-82-7	Cyclohexane	0.29		0.30		3	12
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	0.18	J	0.17	J	6	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	2.4		2.4		0	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	1.1		1.0		10	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	1700	E	1750	E	3	33
100-41-4	Ethylbenzene	0.56		0.58		4	15
141-78-6	Ethyl Acetate	5.8		5.9		2	20
622-96-8	4-Ethyltoluene	0.22		0.18	J	20* a	13

Duplicate Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA81330-5DUP	W32812.D	1	07/20/11	YMH	n/a	n/a	VW1341
JA81330-5	W32811.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples:

Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	JA81330-5 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	0.66		0.68		3	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	0.53		0.52		2	17
591-78-6	2-Hexanone	0.19	J	0.21		10	20
67-63-0	Isopropyl Alcohol	67.9	E	71.6	E	5	26
75-09-2	Methylene chloride	0.29		0.25		15	26
78-93-3	Methyl ethyl ketone	2.4		2.5		4	21
108-10-1	Methyl Isobutyl Ketone	0.34		0.34		0	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	ND		ND		nc	16
100-42-5	Styrene	0.82		0.83		1	11
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	1.1		1.1		0	19
108-67-8	1,3,5-Trimethylbenzene	0.27		0.27		0	13
540-84-1	2,2,4-Trimethylpentane	0.23		0.24		4	18
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	21
127-18-4	Tetrachloroethylene	0.20		0.19		5	17
109-99-9	Tetrahydrofuran	0.49		0.50		2	20
108-88-3	Toluene	5.1		5.1		0	20
79-01-6	Trichloroethylene	0.040		0.037	J	8	13
75-69-4	Trichlorofluoromethane	1.1		1.0		10	21
75-01-4	Vinyl chloride	ND		ND		nc	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	1.8		1.8		0	26
95-47-6	o-Xylene	0.61		0.63		3	20
1330-20-7	Xylenes (total)	2.4		2.4		0	26

Duplicate Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA81330-5DUP	W32812.D	1	07/20/11	YMH	n/a	n/a	VW1341
JA81330-5	W32811.D	1	07/20/11	YMH	n/a	n/a	VW1341

The QC reported here applies to the following samples:

Method: TO-15

JA81330-1, JA81330-2, JA81330-3, JA81330-4, JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Surrogate Recoveries	DUP	JA81330-5	Limits
460-00-4	4-Bromofluorobenzene	105%	105%	65-128%

(a) Outside in house control limits.

Duplicate Summary

Page 1 of 1

Job Number: JA81330**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA81054-3DUP	W32841.D	1	07/21/11	YMH	n/a	n/a	VW1342
JA81054-3	W32840.D	1	07/21/11	YMH	n/a	n/a	VW1342

The QC reported here applies to the following samples:**Method:** TO-15

JA81330-5, JA81330-6, JA81330-7, JA81330-8

CAS No.	Compound	JA81054-3		DUP		Q	RPD	Limits
		ppbv	Q	ppbv	Q			
67-64-1	Acetone	37.7		37.1			2	27
64-17-5	Ethanol	2430	E	2500	E		3	33
67-63-0	Isopropyl Alcohol	122		126			3	26

CAS No.	Surrogate Recoveries	DUP	JA81054-3	Limits
460-00-4	4-Bromofluorobenzene	93%	90%	65-128%

Summa Cleaning Certification**Job Number:** JA81330**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-SCC	W32412.D	1	06/24/11	YMH	n/a	n/a	VW1324

The QC reported here (Summa A255) applies to the following samples:**Method:** TO-15

Batch CP4875 cleaned 06/21/11: JA81330-1(A190), JA81330-2(A089), JA81330-4(A661)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-SCC	W32412.D	1	06/24/11	YMH	n/a	n/a	VW1324

The QC reported here (Summa A255) applies to the following samples:

Method: TO-15

Batch CP4875 cleaned 06/21/11: JA81330-1(A190), JA81330-2(A089), JA81330-4(A661)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1324-SCC	W32412.D	1	06/24/11	YMH	n/a	n/a	VW1324

The QC reported here (Summa A255) applies to the following samples: Method: TO-15

Batch CP4875 cleaned 06/21/11: JA81330-1(A190), JA81330-2(A089), JA81330-4(A661)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	92% 65-128%

5.4.1
5

Summa Cleaning Certification**Job Number:** JA81330**Account:** RAVIV TRC**Project:** Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-SCC	3W23024.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here (Summa A377) applies to the following samples:**Method:** TO-15

Batch CP4876 cleaned 06/22/11: JA81330-3(A147), JA81330-5(A365), JA81330-6(A039), JA81330-7(A358), JA81330-8(A853)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.046	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.037	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.038	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.095	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-SCC	3W23024.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here (Summa A377) applies to the following samples:

Method: TO-15

Batch CP4876 cleaned 06/22/11: JA81330-3(A147), JA81330-5(A365), JA81330-6(A039), JA81330-7(A358), JA81330-8(A853)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.027	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.040	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.042	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.031	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W910-SCC	3W23024.D	1	06/24/11	YXC	n/a	n/a	V3W910

The QC reported here (Summa A377) applies to the following samples: Method: TO-15

Batch CP4876 cleaned 06/22/11: JA81330-3(A147), JA81330-5(A365), JA81330-6(A039), JA81330-7(A358), JA81330-8(A853)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	81% 65-128%

Instrument Performance Check (BFB)

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W886-BFB
Lab File ID: 3W22414.D
Instrument ID: GCMS3W
Injection Date: 05/13/11
Injection Time: 09:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	6263	18.4	Pass
75	30.0 - 66.0% of mass 95	15734	46.1	Pass
95	Base peak, 100% relative abundance	34112	100.0	Pass
96	5.0 - 9.0% of mass 95	2481	7.27	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	31432	92.1	Pass
175	4.0 - 9.01% of mass 174	2371	6.95 (7.54) ^a	Pass
176	93.0 - 101.0% of mass 174	30914	90.6 (98.4) ^a	Pass
177	5.0 - 9.0% of mass 176	2014	5.90 (6.51) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W886-IC886	3W22416.D	05/13/11	10:33	01:20	Initial cal 5
V3W886-IC886	3W22418.D	05/13/11	12:34	03:21	Initial cal 20
V3W886-ICC886	3W22419.D	05/13/11	13:14	04:01	Initial cal 10
V3W886-IC886	3W22420.D	05/13/11	13:57	04:44	Initial cal 1
V3W886-IC886	3W22421.D	05/13/11	14:37	05:24	Initial cal 0.2
V3W886-IC886	3W22422.D	05/13/11	15:57	06:44	Initial cal 0.04
ZZZZZZ	3W22422M.D	05/13/11	15:57	06:44	(unrelated sample)
V3W886-IC886	3W22423.D	05/13/11	16:38	07:25	Initial cal 0.1
ZZZZZZ	3W22423M.D	05/13/11	16:38	07:25	(unrelated sample)
V3W886-IC886	3W22424.D	05/13/11	17:20	08:07	Initial cal 40
V3W886-IC886	3W22425.D	05/13/11	19:21	10:08	Initial cal 0.5
V3W886-ICV886	3W22426.D	05/14/11	00:01	14:48	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W910-BFB
Lab File ID: 3W23017.D
Instrument ID: GCMS3W
Injection Date: 06/24/11
Injection Time: 08:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	8359	19.5	Pass
75	30.0 - 66.0% of mass 95	20474	47.8	Pass
95	Base peak, 100% relative abundance	42848	100.0	Pass
96	5.0 - 9.0% of mass 95	3006	7.02	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	40234	93.9	Pass
175	4.0 - 9.01% of mass 174	2935	6.85 (7.29) ^a	Pass
176	93.0 - 101.0% of mass 174	38826	90.6 (96.5) ^a	Pass
177	5.0 - 9.0% of mass 176	2598	6.06 (6.69) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W910-CC886	3W23018.D	06/24/11	09:27	00:41	Continuing cal 10
V3W910-BS	3W23019.D	06/24/11	10:13	01:27	Blank Spike
V3W910-BSD	3W23020.D	06/24/11	11:06	02:20	Blank Spike Duplicate
V3W910-MB	3W23021.D	06/24/11	12:41	03:55	Method Blank
ZZZZZZ	3W23022.D	06/24/11	13:21	04:35	(unrelated sample)
ZZZZZZ	3W23023.D	06/24/11	14:01	05:15	(unrelated sample)
V3W910-SCC	3W23024.D	06/24/11	14:44	05:58	Summa Cleaning Certification
ZZZZZZ	3W23025.D	06/24/11	15:24	06:38	(unrelated sample)
ZZZZZZ	3W23026.D	06/24/11	16:04	07:18	(unrelated sample)
ZZZZZZ	3W23027.D	06/24/11	16:44	07:58	(unrelated sample)
ZZZZZZ	3W23028.D	06/24/11	17:25	08:39	(unrelated sample)
ZZZZZZ	3W23029.D	06/24/11	18:05	09:19	(unrelated sample)
JA79223-1	3W23030.D	06/24/11	18:47	10:01	(used for QC only; not part of job JA81330)
JA79223-1DUP	3W23031.D	06/24/11	19:30	10:44	Duplicate
ZZZZZZ	3W23032.D	06/24/11	20:13	11:27	(unrelated sample)
ZZZZZZ	3W23033.D	06/24/11	20:55	12:09	(unrelated sample)
ZZZZZZ	3W23034.D	06/24/11	21:38	12:52	(unrelated sample)
ZZZZZZ	3W23035.D	06/24/11	22:20	13:34	(unrelated sample)
ZZZZZZ	3W23036.D	06/24/11	23:03	14:17	(unrelated sample)
ZZZZZZ	3W23037.D	06/24/11	23:46	15:00	(unrelated sample)
ZZZZZZ	3W23038.D	06/25/11	00:29	15:43	(unrelated sample)
ZZZZZZ	3W23039.D	06/25/11	01:52	17:06	(unrelated sample)
ZZZZZZ	3W23040.D	06/25/11	02:32	17:46	(unrelated sample)
ZZZZZZ	3W23041.D	06/25/11	03:13	18:27	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W910-BFB

Injection Date: 06/24/11

Lab File ID: 3W23017.D

Injection Time: 08:46

Instrument ID: GCMS3W

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W23042.D	06/25/11	03:53	19:07	(unrelated sample)
ZZZZZZ	3W23043.D	06/25/11	05:14	20:28	(unrelated sample)

5.5.2

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Instrument Performance Check (BFB)

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1322-BFB
Lab File ID: W32351.D
Instrument ID: GCMSW
Injection Date: 06/21/11
Injection Time: 16:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	9991	16.7	Pass
75	30.0 - 66.0% of mass 95	26117	43.7	Pass
95	Base peak, 100% relative abundance	59717	100.0	Pass
96	5.0 - 9.0% of mass 95	3967	6.64	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	54200	90.8	Pass
175	4.0 - 9.01% of mass 174	4795	8.03 (8.85) ^a	Pass
176	93.0 - 101.0% of mass 174	52714	88.3 (97.3) ^a	Pass
177	5.0 - 9.0% of mass 176	3429	5.74 (6.50) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1322-ICC1322	W32352.D	06/21/11	17:20	00:40	Initial cal 10
VW1322-IC1322	W32353.D	06/21/11	18:00	01:20	Initial cal 0.5
VW1322-IC1322	W32356.D	06/21/11	20:00	03:20	Initial cal 20
VW1322-IC1322	W32357.D	06/21/11	20:40	04:00	Initial cal 5.0
VW1322-IC1322	W32359.D	06/21/11	22:00	05:20	Initial cal 0.04
VW1322-IC1322	W32360.D	06/21/11	22:40	06:00	Initial cal 40
VW1322-IC1322	W32364.D	06/22/11	09:56	17:16	Initial cal 0.2
VW1322-IC1322	W32365.D	06/22/11	10:36	17:56	Initial cal 0.1

Instrument Performance Check (BFB)

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1324-BFB
Lab File ID: W32385.D
Instrument ID: GCMSW
Injection Date: 06/23/11
Injection Time: 08:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	11481	16.9	Pass
75	30.0 - 66.0% of mass 95	29853	43.9	Pass
95	Base peak, 100% relative abundance	67986	100.0	Pass
96	5.0 - 9.0% of mass 95	4538	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	60200	88.5	Pass
175	4.0 - 9.01% of mass 174	5109	7.51 (8.49) ^a	Pass
176	93.0 - 101.0% of mass 174	58517	86.1 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	3752	5.52 (6.41) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1324-CC1322	W32386.D	06/23/11	09:03	00:39	Continuing cal 10
VW1324-BS	W32387.D	06/23/11	09:43	01:19	Blank Spike
VW1324-BSD	W32388.D	06/23/11	11:14	02:50	Blank Spike Duplicate
VW1324-MB	W32389.D	06/23/11	12:33	04:09	Method Blank
ZZZZZZ	W32390.D	06/23/11	13:12	04:48	(unrelated sample)
ZZZZZZ	W32391.D	06/23/11	13:52	05:28	(unrelated sample)
ZZZZZZ	W32392.D	06/23/11	14:31	06:07	(unrelated sample)
ZZZZZZ	W32393.D	06/23/11	15:11	06:47	(unrelated sample)
ZZZZZZ	W32395.D	06/23/11	16:31	08:07	(unrelated sample)
JA79143-2	W32396.D	06/23/11	17:11	08:47	(used for QC only; not part of job JA81330)
JA79143-2DUP	W32397.D	06/23/11	17:51	09:27	Duplicate
ZZZZZZ	W32398.D	06/23/11	18:31	10:07	(unrelated sample)
ZZZZZZ	W32399.D	06/23/11	19:11	10:47	(unrelated sample)
ZZZZZZ	W32400.D	06/23/11	19:51	11:27	(unrelated sample)
ZZZZZZ	W32402.D	06/23/11	21:11	12:47	(unrelated sample)
ZZZZZZ	W32403.D	06/23/11	21:51	13:27	(unrelated sample)
ZZZZZZ	W32404.D	06/23/11	22:31	14:07	(unrelated sample)
ZZZZZZ	W32405.D	06/23/11	23:11	14:47	(unrelated sample)
ZZZZZZ	W32406.D	06/23/11	23:51	15:27	(unrelated sample)
ZZZZZZ	W32407.D	06/24/11	01:11	16:47	(unrelated sample)
ZZZZZZ	W32408.D	06/24/11	01:51	17:27	(unrelated sample)
ZZZZZZ	W32409.D	06/24/11	02:31	18:07	(unrelated sample)
ZZZZZZ	W32411.D	06/24/11	03:52	19:28	(unrelated sample)
VW1324-SCC	W32412.D	06/24/11	05:12	20:48	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1341-BFB
Lab File ID: W32799.D
Instrument ID: GCMSW
Injection Date: 07/20/11
Injection Time: 07:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	14172	18.3	Pass
75	30.0 - 66.0% of mass 95	37602	48.6	Pass
95	Base peak, 100% relative abundance	77381	100.0	Pass
96	5.0 - 9.0% of mass 95	4981	6.44	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	57605	74.4	Pass
175	4.0 - 9.01% of mass 174	4396	5.68 (7.63) ^a	Pass
176	93.0 - 101.0% of mass 174	54973	71.0 (95.4) ^a	Pass
177	5.0 - 9.0% of mass 176	3629	4.69 (6.60) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1341-CC1322	W32800.D	07/20/11	08:11	00:42	Continuing cal 10
VW1341-BS	W32801.D	07/20/11	08:52	01:23	Blank Spike
VW1341-BSD	W32802.D	07/20/11	09:32	02:03	Blank Spike Duplicate
VW1341-MB	W32803.D	07/20/11	11:11	03:42	Method Blank
ZZZZZZ	W32804.D	07/20/11	12:04	04:35	(unrelated sample)
ZZZZZZ	W32805.D	07/20/11	12:44	05:15	(unrelated sample)
JA81330-1	W32807.D	07/20/11	14:05	06:36	7006 CR
JA81330-2	W32808.D	07/20/11	14:46	07:17	7007 CR
JA81330-3	W32809.D	07/20/11	15:28	07:59	12002 CR
JA81330-4	W32810.D	07/20/11	16:09	08:40	12003 CR
JA81330-5	W32811.D	07/20/11	16:50	09:21	6007 CR
JA81330-5DUP	W32812.D	07/20/11	17:31	10:02	Duplicate
JA81330-6	W32813.D	07/20/11	18:12	10:43	BLDG 3 CR
JA81330-7	W32814.D	07/20/11	18:53	11:24	6006 CR
JA81330-8	W32815.D	07/20/11	19:34	12:05	BLDG 26 RV
JA81330-1	W32816.D	07/20/11	20:15	12:46	7006 CR
JA81330-2	W32817.D	07/20/11	20:56	13:27	7007 CR
JA81330-3	W32818.D	07/20/11	21:37	14:08	12002 CR
JA81330-4	W32819.D	07/20/11	22:17	14:48	12003 CR
ZZZZZZ	W32821.D	07/20/11	23:38	16:09	(unrelated sample)
ZZZZZZ	W32822.D	07/21/11	00:19	16:50	(unrelated sample)
ZZZZZZ	W32823.D	07/21/11	00:59	17:30	(unrelated sample)
ZZZZZZ	W32824.D	07/21/11	01:40	18:11	(unrelated sample)
ZZZZZZ	W32825.D	07/21/11	02:20	18:51	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample:	VW1341-BFB	Injection Date:	07/20/11
Lab File ID:	W32799.D	Injection Time:	07:29
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W32826.D	07/21/11	03:00	19:31	(unrelated sample)
VW1341-SCC	W32827.D	07/21/11	04:21	20:52	Summa Cleaning Certification

5.5.5
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Instrument Performance Check (BFB)

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1342-BFB
Lab File ID: W32828.D
Instrument ID: GCMSW
Injection Date: 07/21/11
Injection Time: 08:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	12192	18.5	Pass
75	30.0 - 66.0% of mass 95	30080	45.7	Pass
95	Base peak, 100% relative abundance	65802	100.0	Pass
96	5.0 - 9.0% of mass 95	4340	6.60	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	57301	87.1	Pass
175	4.0 - 9.01% of mass 174	4706	7.15 (8.21) ^a	Pass
176	93.0 - 101.0% of mass 174	56128	85.3 (98.0) ^a	Pass
177	5.0 - 9.0% of mass 176	3695	5.62 (6.58) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW1342-CC1322	W32829.D	07/21/11	09:18	00:45	Continuing cal 10
VW1342-BS	W32830.D	07/21/11	10:05	01:32	Blank Spike
VW1342-BSD	W32831.D	07/21/11	10:46	02:13	Blank Spike Duplicate
VW1342-MB	W32832.D	07/21/11	12:12	03:39	Method Blank
JA81330-5	W32833.D	07/21/11	12:53	04:20	6007 CR
JA81330-6	W32834.D	07/21/11	13:34	05:01	BLDG 3 CR
JA81330-7	W32835.D	07/21/11	14:15	05:42	6006 CR
JA81330-8	W32836.D	07/21/11	14:57	06:24	BLDG 26 RV
VW1342-SCC	W32837.D	07/21/11	15:38	07:05	Summa Cleaning Certification
ZZZZZZ	W32838.D	07/21/11	16:20	07:47	(unrelated sample)
ZZZZZZ	W32839.D	07/21/11	17:01	08:28	(unrelated sample)
JA81054-3	W32840.D	07/21/11	17:43	09:10	(used for QC only; not part of job JA81330)
JA81054-3DUP	W32841.D	07/21/11	18:25	09:52	Duplicate
ZZZZZZ	W32842.D	07/21/11	19:06	10:33	(unrelated sample)
ZZZZZZ	W32843.D	07/21/11	19:48	11:15	(unrelated sample)
ZZZZZZ	W32844.D	07/21/11	20:30	11:57	(unrelated sample)
ZZZZZZ	W32845.D	07/21/11	21:11	12:38	(unrelated sample)
ZZZZZZ	W32846.D	07/21/11	21:52	13:19	(unrelated sample)
ZZZZZZ	W32847.D	07/21/11	22:33	14:00	(unrelated sample)
ZZZZZZ	W32848.D	07/21/11	23:15	14:42	(unrelated sample)
ZZZZZZ	W32849.D	07/21/11	23:56	15:23	(unrelated sample)
ZZZZZZ	W32850.D	07/22/11	00:37	16:04	(unrelated sample)
ZZZZZZ	W32851.D	07/22/11	01:58	17:25	(unrelated sample)
ZZZZZZ	W32852.D	07/22/11	02:39	18:06	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample:	VW1342-BFB	Injection Date:	07/21/11
Lab File ID:	W32828.D	Injection Time:	08:33
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W32853.D	07/22/11	03:20	18:47	(unrelated sample)
ZZZZZZ	W32854.D	07/22/11	04:01	19:28	(unrelated sample)

5.5.6
5

Volatile Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Check Std: V3W910-CC886
Lab File ID: 3W23018.D
Instrument ID: GCMS3W
Injection Date: 06/24/11
Injection Time: 09:27
Method: TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	102842	7.31	446279	9.02	217987	13.31
Upper Limit ^a	143979	7.64	624791	9.35	305182	13.64
Lower Limit ^b	61705	6.98	267767	8.69	130792	12.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V3W910-BS	98736	7.31	421198	9.02	206932	13.31
V3W910-BSD	97677	7.31	393223	9.01	196200	13.31
V3W910-MB	102357	7.30	494500	9.01	233826	13.30
ZZZZZZ	96513	7.31	461700	9.01	220211	13.30
ZZZZZZ	94542	7.31	438769	9.01	209549	13.30
V3W910-SCC	86776	7.30	393541	9.01	182132	13.30
ZZZZZZ	94132	7.31	436326	9.02	224075	13.31
ZZZZZZ	93612	7.31	428036	9.01	202654	13.30
ZZZZZZ	88415	7.31	406886	9.01	193340	13.30
ZZZZZZ	88087	7.31	404050	9.01	211086	13.30
ZZZZZZ	87455	7.30	380717	9.01	218615	13.30
JA79223-1	95135	7.31	452775	9.02	215407	13.30
JA79223-1DUP	99471	7.31	463403	9.02	210070	13.30
ZZZZZZ	99297	7.31	458977	9.02	214836	13.31
ZZZZZZ	100898	7.31	460756	9.02	201001	13.31
ZZZZZZ	106953	7.31	487897	9.02	222454	13.30
ZZZZZZ	101398	7.31	465131	9.02	215099	13.31
ZZZZZZ	103148	7.31	452149	9.01	202875	13.30
ZZZZZZ	100024	7.31	439189	9.01	203270	13.30
ZZZZZZ	99650	7.31	429328	9.02	202179	13.30
ZZZZZZ	107260	7.31	466203	9.02	217110	13.31
ZZZZZZ	102865	7.31	441312	9.01	197521	13.30
ZZZZZZ	103994	7.31	432408	9.02	206409	13.31
ZZZZZZ	104235	7.31	470262	9.01	210941	13.31
ZZZZZZ	101751	7.31	445298	9.01	201424	13.30

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Check Std:	VW1324-CC1322	Injection Date:	06/23/11
Lab File ID:	W32386.D	Injection Time:	09:03
Instrument ID:	GCMSW	Method:	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	149471	8.62	767115	10.30	376885	14.55
Upper Limit ^a	209259	8.95	1073961	10.63	527639	14.88
Lower Limit ^b	89683	8.29	460269	9.97	226131	14.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1324-BS	149420	8.62	762301	10.30	370524	14.55
VW1324-BSD	151288	8.62	765275	10.30	373517	14.55
VW1324-MB	166902	8.61	854854	10.29	384904	14.54
ZZZZZZ	155983	8.61	807212	10.30	370479	14.54
ZZZZZZ	151189	8.62	783831	10.30	360315	14.54
ZZZZZZ	163761	8.61	874142	10.30	410869	14.54
ZZZZZZ	158348	8.61	836701	10.29	381250	14.54
ZZZZZZ	148841	8.63	780715	10.31	365610	14.54
JA79143-2	152486	8.62	792624	10.30	373063	14.54
JA79143-2DUP	152936	8.62	798557	10.30	372645	14.54
ZZZZZZ	157055	8.62	815985	10.30	385088	14.54
ZZZZZZ	162465	8.62	847398	10.30	402994	14.54
ZZZZZZ	163702	8.61	849483	10.29	393566	14.54
ZZZZZZ	153988	8.61	795766	10.29	367389	14.54
ZZZZZZ	152269	8.62	798617	10.30	372630	14.54
ZZZZZZ	151817	8.62	792104	10.30	371728	14.54
ZZZZZZ	150407	8.62	790634	10.30	381367	14.54
ZZZZZZ	151412	8.62	795179	10.30	373045	14.54
ZZZZZZ	160771	8.62	832539	10.30	385966	14.54
ZZZZZZ	155608	8.62	814740	10.30	390510	14.54
ZZZZZZ	155013	8.62	815912	10.30	379692	14.54
ZZZZZZ	158220	8.62	826266	10.30	401453	14.54
VW1324-SCC	156154	8.61	790929	10.29	354391	14.54

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
 (b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Check Std:	VW1341-CC1322	Injection Date:	07/20/11
Lab File ID:	W32800.D	Injection Time:	08:11
Instrument ID:	GCMSW	Method:	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	163015	8.59	786379	10.27	378609	14.52
Upper Limit ^a	228221	8.92	1100931	10.60	530053	14.85
Lower Limit ^b	97809	8.26	471827	9.94	227165	14.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1341-BS	155968	8.59	781273	10.27	372869	14.52
VW1341-BSD	153068	8.59	758678	10.27	350941	14.52
VW1341-MB	148435	8.59	742738	10.27	319382	14.51
ZZZZZZ	162822	8.60	825210	10.27	374337	14.52
ZZZZZZ	143582	8.60	706215	10.27	309070	14.52
JA81330-1	153068	8.60	768434	10.27	332231	14.52
JA81330-2	139668	8.59	681372	10.27	295882	14.52
JA81330-3	132243	8.60	645218	10.27	280698	14.52
JA81330-4	129595	8.60	621770	10.27	263181	14.52
JA81330-5	117296	8.60	569724	10.28	241545	14.52
JA81330-5DUP	126295	8.60	600877	10.27	251938	14.52
JA81330-6	132095	8.59	629032	10.27	265389	14.52
JA81330-7	153360	8.60	766789	10.28	333407	14.52
JA81330-8	150463	8.60	754436	10.27	328081	14.52
JA81330-1	143501	8.59	709640	10.27	294024	14.52
JA81330-2	150553	8.59	769571	10.27	329229	14.52
JA81330-3	160219	8.59	816030	10.27	358248	14.52
JA81330-4	158434	8.59	810651	10.27	355904	14.52
ZZZZZZ	158135	8.59	813586	10.27	364882	14.52
ZZZZZZ	162603	8.60	832413	10.27	375105	14.52
ZZZZZZ	156934	8.63	803996	10.29	368336	14.52
ZZZZZZ	157568	8.60	810425	10.28	369328	14.52
ZZZZZZ	153166	8.63	786944	10.30	363161	14.52
ZZZZZZ	153137	8.59	784016	10.27	357372	14.52
VW1341-SCC	149501	8.59	749679	10.27	329523	14.52

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Check Std: VW1342-CC1322	Injection Date: 07/21/11
Lab File ID: W32829.D	Injection Time: 09:18
Instrument ID: GCMSW	Method: TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	151689	8.59	746250	10.27	365970	14.52
Upper Limit ^a	212365	8.92	1044750	10.60	512358	14.85
Lower Limit ^b	91013	8.26	447750	9.94	219582	14.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW1342-BS	151273	8.59	749351	10.27	362293	14.52
VW1342-BSD	157996	8.59	803542	10.27	382780	14.52
VW1342-MB	163529	8.59	817019	10.27	363113	14.52
JA81330-5	168155	8.59	884260	10.27	414296	14.52
JA81330-6	155182	8.59	778947	10.27	366979	14.52
JA81330-7	169517	8.59	845559	10.27	402138	14.52
JA81330-8	155800	8.59	781416	10.27	374827	14.52
VW1342-SCC	166799	8.59	843200	10.27	372365	14.52
ZZZZZZ	157416	8.59	786973	10.27	399346	14.52
ZZZZZZ	168289	8.60	842679	10.27	416866	14.52
JA81054-3	147211	8.59	723376	10.27	343543	14.52
JA81054-3DUP	139645	8.59	687273	10.27	326982	14.52
ZZZZZZ	145751	8.59	710134	10.27	355220	14.52
ZZZZZZ	133767	8.60	661093	10.28	294912	14.52
ZZZZZZ	142235	8.60	690897	10.28	323645	14.52
ZZZZZZ	137029	8.61	683964	10.29	338220	14.52
ZZZZZZ	132945	8.60	654987	10.28	318917	14.52
ZZZZZZ	134240	8.59	645112	10.27	294410	14.52
ZZZZZZ	137714	8.60	675938	10.27	313991	14.52
ZZZZZZ	135653	8.61	668307	10.29	340842	14.52
ZZZZZZ	141745	8.59	668772	10.27	334346	14.52
ZZZZZZ	141590	8.59	710389	10.27	301360	14.52
ZZZZZZ	148899	8.59	753477	10.27	327072	14.52
ZZZZZZ	151104	8.59	762420	10.27	341392	14.51
ZZZZZZ	155633	8.59	788397	10.27	368605	14.52

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15	Reporting this level
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15	
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15	
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15	
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15	
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15	
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15	
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15	
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.01	7.30	0.686 ok	0.689	0.629-0.749
Acrylonitrile	5.33	7.30	0.730 ok	0.732	0.672-0.792
Acetonitrile	4.88	7.30	0.668 ok	0.670	0.610-0.730
1,3-Butadiene	4.37	7.30	0.599 ok	0.598	0.538-0.658
Benzene	8.68	9.01	0.963 ok	0.963	0.903-1.023
Bromodichloromethane	9.64	9.01	1.070 ok	1.069	1.009-1.129
Bromoform	14.04	13.32	1.054 ok	1.054	0.994-1.114
Bromomethane	4.54	7.30	0.622 ok	0.622	0.562-0.682
Bromoethene	4.86	7.30	0.666 ok	0.666	0.606-0.726
n-Butane	4.39	7.30	0.601 ok	0.601	0.541-0.661
Benzyl Chloride	16.67	13.32	1.252 ok	1.251	1.191-1.311
n-Butylbenzene	17.50	13.32	1.314 ok	1.314	1.254-1.374
sec-Butylbenzene	16.80	13.32	1.261 ok	1.261	1.201-1.321
tert-Butylbenzene	16.46	13.32	1.236 ok	1.236	1.176-1.296
Carbon disulfide	5.85	7.30	0.801 ok	0.802	0.742-0.862
Chlorobenzene	13.36	13.32	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.98	7.30	0.545 ok	0.546	0.486-0.606
Chloroethane	4.64	7.30	0.636 ok	0.635	0.575-0.695
Chloroform	7.39	7.30	1.012 ok	1.012	0.952-1.072
Chloromethane	4.15	7.30	0.568 ok	0.569	0.509-0.629
3-Chloropropene	5.71	7.30	0.782 ok	0.782	0.722-0.842
2-Chlorotoluene	15.67	13.32	1.176 ok	1.177	1.117-1.237
Carbon tetrachloride	8.82	7.30	1.208 ok	1.208	1.148-1.268
Cyclohexane	8.86	9.01	0.983 ok	0.985	0.925-1.045
1,1-Dichloroethane	6.47	7.30	0.886 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.55	7.30	0.760 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.13	13.32	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.03	7.30	1.100 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.41	9.01	1.044 ok	1.044	0.984-1.104
1,4-Dioxane	9.71	9.01	1.078 ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.05	7.30	0.555 ok	0.555	0.495-0.615
Dibromochloromethane	11.92	13.32	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.29	7.30	0.862 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.18	7.30	0.984 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.52	9.01	1.168 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.66	13.32	1.251 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.18	13.32	1.290 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.75	13.32	1.258 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.04	9.01	1.225 ok	1.225	1.165-1.285

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15	Reporting this level
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15	
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15	
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15	
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15	
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15	
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15	
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15	
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	7.24	7.30	0.992 ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.06	9.01	1.006 ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.98	7.30	1.093 ok	1.093	1.033-1.153
Ethanol	4.73	7.30	0.648 ok	0.649	0.589-0.709
Ethylbenzene	13.74	13.32	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.31	7.30	1.001 ok	0.998	0.938-1.058
4-Ethyltoluene	15.88	13.32	1.192 ok	1.192	1.132-1.252
Freon 113	5.80	7.30	0.795 ok	0.794	0.734-0.854
Freon 114	4.21	7.30	0.577 ok	0.577	0.517-0.637
Freon 123	4.93	7.30	0.675 ok	0.675	0.615-0.735
Freon 123A	4.97	7.30	0.681 ok	0.681	0.621-0.741
Heptane	9.85	9.01	1.093 ok	1.093	1.033-1.153
Hexachlorobutadiene	19.79	13.32	1.486 ok	1.485	1.425-1.545
Hexachloroethane	17.99	13.32	1.351 ok	1.350	1.290-1.410
Hexane	7.23	7.30	0.990 ok	0.990	0.930-1.050
2-Hexanone	11.73	13.32	0.881 ok	0.881	0.821-0.941
Iodomethane	5.50	7.30	0.753 ok	0.754	0.694-0.814
Isopropylbenzene	15.10	13.32	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.17	7.30	0.708 ok	0.711	0.651-0.771
p-Isopropyltoluene	16.98	13.32	1.275 ok	1.275	1.215-1.335
Methylene chloride	5.64	7.30	0.773 ok	0.773	0.713-0.833
Methyl ethyl ketone	6.76	7.30	0.926 ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.50	9.01	1.165 ok	1.167	1.107-1.227
Methyl Tert Butyl Ether	6.47	7.30	0.886 ok	0.888	0.828-0.948
Methylmethacrylate	9.87	9.01	1.095 ok	1.095	1.035-1.155
Naphthalene	19.37	13.32	1.454 ok	1.454	1.394-1.514
Nonane	14.64	13.32	1.099 ok	1.099	1.039-1.159
Octane	12.42	13.32	0.932 ok	0.932	0.872-0.992
Pentane	5.31	7.30	0.727 ok	0.727	0.667-0.787
n-Propylbenzene	15.70	13.32	1.179 ok	1.179	1.119-1.239
Propylene	4.00	7.30	0.548 ok	0.548	0.488-0.608
Styrene	14.35	13.32	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.30	1.130 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.34	13.32	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.47	13.32	1.086 ok	1.086	1.026-1.146
1,1,2-Trichloroethane	11.20	9.01	1.243 ok	1.242	1.182-1.302
1,2,4-Trichlorobenzene	19.23	13.32	1.444 ok	1.444	1.384-1.504
1,2,3-Trichloropropane	14.60	13.32	1.096 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.47	13.32	1.236 ok	1.237	1.177-1.297

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15	Reporting this level
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15	
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15	
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15	
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15	
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15	
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15	
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15	
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	15.97	13.32	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.01	1.064 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.57	7.30	0.763 ok	0.765	0.705-0.825
Tetrachloroethylene	12.63	13.32	0.948 ok	0.948	0.888-1.008
Tetrahydrofuran	7.73	7.30	1.059 ok	1.062	1.002-1.122
Toluene	11.47	9.01	1.273 ok	1.272	1.212-1.332
Trichloroethylene	9.66	9.01	1.072 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.12	7.30	0.701 ok	0.701	0.641-0.761
Vinyl chloride	4.29	7.30	0.588 ok	0.588	0.528-0.648
Vinyl Acetate	6.57	7.30	0.900 ok	0.901	0.841-0.961
m,p-Xylene	13.93	13.32	1.046 ok	1.046	0.986-1.106
o-Xylene	14.45	13.32	1.085 ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.31	7.30	0.727 ok	0.728	0.668-0.788
TVHC As Equiv Heptane	9.85	9.01	1.093 ok	1.093	1.033-1.153

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.30 ok	7.30	6.97-7.63	89922	ok 93035	55821-130249
1,4-Difluorobenzene	9.01 ok	9.02	8.69-9.35	396390	ok 396018	237611-554425
Chlorobenzene-D5	13.32 ok	13.32	12.99-13.65	186567	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15 Reporting this level
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.01	7.31	0.685 ok	0.689	0.629-0.749
Acrylonitrile	5.34	7.31	0.731 ok	0.732	0.672-0.792
Acetonitrile	4.88	7.31	0.668 ok	0.670	0.610-0.730
1,3-Butadiene	4.37	7.31	0.598 ok	0.598	0.538-0.658
Benzene	8.69	9.02	0.963 ok	0.963	0.903-1.023
Bromodichloromethane	9.64	9.02	1.069 ok	1.069	1.009-1.129
Bromoform	14.04	13.32	1.054 ok	1.054	0.994-1.114
Bromomethane	4.54	7.31	0.621 ok	0.622	0.562-0.682
Bromoethene	4.86	7.31	0.665 ok	0.666	0.606-0.726
n-Butane	4.39	7.31	0.601 ok	0.601	0.541-0.661
Benzyl Chloride	16.67	13.32	1.252 ok	1.251	1.191-1.311
n-Butylbenzene	17.50	13.32	1.314 ok	1.314	1.254-1.374
sec-Butylbenzene	16.80	13.32	1.261 ok	1.261	1.201-1.321
tert-Butylbenzene	16.46	13.32	1.236 ok	1.236	1.176-1.296
Carbon disulfide	5.85	7.31	0.800 ok	0.802	0.742-0.862
Chlorobenzene	13.37	13.32	1.004 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.98	7.31	0.544 ok	0.546	0.486-0.606
Chloroethane	4.64	7.31	0.635 ok	0.635	0.575-0.695
Chloroform	7.40	7.31	1.012 ok	1.012	0.952-1.072
Chloromethane	4.15	7.31	0.568 ok	0.569	0.509-0.629
3-Chloropropene	5.71	7.31	0.781 ok	0.782	0.722-0.842
2-Chlorotoluene	15.68	13.32	1.177 ok	1.177	1.117-1.237
Carbon tetrachloride	8.82	7.31	1.207 ok	1.208	1.148-1.268
Cyclohexane	8.86	9.02	0.982 ok	0.985	0.925-1.045
1,1-Dichloroethane	6.47	7.31	0.885 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.55	7.31	0.759 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.14	13.32	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.03	7.31	1.098 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.41	9.02	1.043 ok	1.044	0.984-1.104
1,4-Dioxane	9.70	9.02	1.075 ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.05	7.31	0.554 ok	0.555	0.495-0.615
Dibromochloromethane	11.92	13.32	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.30	7.31	0.862 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.18	7.31	0.982 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.52	9.02	1.166 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.67	13.32	1.252 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.19	13.32	1.291 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.75	13.32	1.258 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.04	9.02	1.224 ok	1.225	1.165-1.285

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15 Reporting this level
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	7.24	7.31	0.990 ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.06	9.02	1.004 ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.98	7.31	1.092 ok	1.093	1.033-1.153
Ethanol	4.73	7.31	0.647 ok	0.649	0.589-0.709
Ethylbenzene	13.74	13.32	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.31	7.31	1.000 ok	0.998	0.938-1.058
4-Ethyltoluene	15.88	13.32	1.192 ok	1.192	1.132-1.252
Freon 113	5.80	7.31	0.793 ok	0.794	0.734-0.854
Freon 114	4.21	7.31	0.576 ok	0.577	0.517-0.637
Freon 123	4.93	7.31	0.674 ok	0.675	0.615-0.735
Freon 123A	4.97	7.31	0.680 ok	0.681	0.621-0.741
Heptane	9.85	9.02	1.092 ok	1.093	1.033-1.153
Hexachlorobutadiene	19.79	13.32	1.486 ok	1.485	1.425-1.545
Hexachloroethane	17.99	13.32	1.351 ok	1.350	1.290-1.410
Hexane	7.23	7.31	0.989 ok	0.990	0.930-1.050
2-Hexanone	11.72	13.32	0.880 ok	0.881	0.821-0.941
Iodomethane	5.50	7.31	0.752 ok	0.754	0.694-0.814
Isopropylbenzene	15.10	13.32	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.17	7.31	0.707 ok	0.711	0.651-0.771
p-Isopropyltoluene	16.99	13.32	1.276 ok	1.275	1.215-1.335
Methylene chloride	5.64	7.31	0.772 ok	0.773	0.713-0.833
Methyl ethyl ketone	6.76	7.31	0.925 ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.49	9.02	1.163 ok	1.167	1.107-1.227
Methyl Tert Butyl Ether	6.47	7.31	0.885 ok	0.888	0.828-0.948
Methylmethacrylate	9.87	9.02	1.094 ok	1.095	1.035-1.155
Naphthalene	19.37	13.32	1.454 ok	1.454	1.394-1.514
Nonane	14.64	13.32	1.099 ok	1.099	1.039-1.159
Octane	12.42	13.32	0.932 ok	0.932	0.872-0.992
Pentane	5.31	7.31	0.726 ok	0.727	0.667-0.787
n-Propylbenzene	15.70	13.32	1.179 ok	1.179	1.119-1.239
Propylene	4.00	7.31	0.547 ok	0.548	0.488-0.608
Styrene	14.35	13.32	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.31	1.129 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.34	13.32	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.47	13.32	1.086 ok	1.086	1.026-1.146
1,1,2-Trichloroethane	11.20	9.02	1.242 ok	1.242	1.182-1.302
1,2,4-Trichlorobenzene	19.23	13.32	1.444 ok	1.444	1.384-1.504
1,2,3-Trichloropropane	14.60	13.32	1.096 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.47	13.32	1.236 ok	1.237	1.177-1.297

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15 Reporting this level
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	15.97	13.32	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.02	1.063 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.56	7.31	0.761 ok	0.765	0.705-0.825
Tetrachloroethylene	12.63	13.32	0.948 ok	0.948	0.888-1.008
Tetrahydrofuran	7.73	7.31	1.057 ok	1.062	1.002-1.122
Toluene	11.47	9.02	1.272 ok	1.272	1.212-1.332
Trichloroethylene	9.66	9.02	1.071 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.12	7.31	0.700 ok	0.701	0.641-0.761
Vinyl chloride	4.29	7.31	0.587 ok	0.588	0.528-0.648
Vinyl Acetate	6.58	7.31	0.900 ok	0.901	0.841-0.961
m,p-Xylene	13.94	13.32	1.047 ok	1.046	0.986-1.106
o-Xylene	14.45	13.32	1.085 ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.32	7.31	0.728 ok	0.728	0.668-0.788
TVHC As Equiv Heptane	9.86	9.02	1.093 ok	1.093	1.033-1.153

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.31 ok	7.30	6.97-7.63	93381	ok 93035	55821-130249
1,4-Difluorobenzene	9.02 ok	9.02	8.69-9.35	408962	ok 396018	237611-554425
Chlorobenzene-D5	13.32 ok	13.32	12.99-13.65	205066	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.02	7.31	0.687 ok	0.689	0.629-0.749
Acrylonitrile	5.35	7.31	0.732 ok	0.732	0.672-0.792
Acetonitrile	4.89	7.31	0.669 ok	0.670	0.610-0.730
1,3-Butadiene	4.37	7.31	0.598 ok	0.598	0.538-0.658
Benzene	8.69	9.02	0.963 ok	0.963	0.903-1.023
Bromodichloromethane	9.64	9.02	1.069 ok	1.069	1.009-1.129
Bromoform	14.04	13.32	1.054 ok	1.054	0.994-1.114
Bromomethane	4.55	7.31	0.622 ok	0.622	0.562-0.682
Bromoethene	4.87	7.31	0.666 ok	0.666	0.606-0.726
n-Butane	4.39	7.31	0.601 ok	0.601	0.541-0.661
Benzyl Chloride	16.67	13.32	1.252 ok	1.251	1.191-1.311
n-Butylbenzene	17.50	13.32	1.314 ok	1.314	1.254-1.374
sec-Butylbenzene	16.80	13.32	1.261 ok	1.261	1.201-1.321
tert-Butylbenzene	16.46	13.32	1.236 ok	1.236	1.176-1.296
Carbon disulfide	5.86	7.31	0.802 ok	0.802	0.742-0.862
Chlorobenzene	13.37	13.32	1.004 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.99	7.31	0.546 ok	0.546	0.486-0.606
Chloroethane	4.64	7.31	0.635 ok	0.635	0.575-0.695
Chloroform	7.40	7.31	1.012 ok	1.012	0.952-1.072
Chloromethane	4.16	7.31	0.569 ok	0.569	0.509-0.629
3-Chloropropene	5.71	7.31	0.781 ok	0.782	0.722-0.842
2-Chlorotoluene	15.68	13.32	1.177 ok	1.177	1.117-1.237
Carbon tetrachloride	8.83	7.31	1.208 ok	1.208	1.148-1.268
Cyclohexane	8.87	9.02	0.983 ok	0.985	0.925-1.045
1,1-Dichloroethane	6.47	7.31	0.885 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.55	7.31	0.759 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.14	13.32	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.04	7.31	1.100 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.42	9.02	1.044 ok	1.044	0.984-1.104
1,4-Dioxane	9.71	9.02	1.076 ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.05	7.31	0.554 ok	0.555	0.495-0.615
Dibromochloromethane	11.92	13.32	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.30	7.31	0.862 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.18	7.31	0.982 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.52	9.02	1.166 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.67	13.32	1.252 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.18	13.32	1.290 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.75	13.32	1.258 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.04	9.02	1.224 ok	1.225	1.165-1.285

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	7.24	7.31	0.990 ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.06	9.02	1.004 ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.99	7.31	1.093 ok	1.093	1.033-1.153
Ethanol	4.74	7.31	0.648 ok	0.649	0.589-0.709
Ethylbenzene	13.75	13.32	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.32	7.31	1.001 ok	0.998	0.938-1.058
4-Ethyltoluene	15.88	13.32	1.192 ok	1.192	1.132-1.252
Freon 113	5.80	7.31	0.793 ok	0.794	0.734-0.854
Freon 114	4.21	7.31	0.576 ok	0.577	0.517-0.637
Freon 123	4.93	7.31	0.674 ok	0.675	0.615-0.735
Freon 123A	4.98	7.31	0.681 ok	0.681	0.621-0.741
Heptane	9.86	9.02	1.093 ok	1.093	1.033-1.153
Hexachlorobutadiene	19.79	13.32	1.486 ok	1.485	1.425-1.545
Hexachloroethane	17.99	13.32	1.351 ok	1.350	1.290-1.410
Hexane	7.23	7.31	0.989 ok	0.990	0.930-1.050
2-Hexanone	11.73	13.32	0.881 ok	0.881	0.821-0.941
Iodomethane	5.51	7.31	0.754 ok	0.754	0.694-0.814
Isopropylbenzene	15.10	13.32	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.19	7.31	0.710 ok	0.711	0.651-0.771
p-Isopropyltoluene	16.99	13.32	1.276 ok	1.275	1.215-1.335
Methylene chloride	5.65	7.31	0.773 ok	0.773	0.713-0.833
Methyl ethyl ketone	6.77	7.31	0.926 ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.51	9.02	1.165 ok	1.167	1.107-1.227
Methyl Tert Butyl Ether	6.48	7.31	0.886 ok	0.888	0.828-0.948
Methylmethacrylate	9.87	9.02	1.094 ok	1.095	1.035-1.155
Naphthalene	19.37	13.32	1.454 ok	1.454	1.394-1.514
Nonane	14.64	13.32	1.099 ok	1.099	1.039-1.159
Octane	12.42	13.32	0.932 ok	0.932	0.872-0.992
Pentane	5.32	7.31	0.728 ok	0.727	0.667-0.787
n-Propylbenzene	15.70	13.32	1.179 ok	1.179	1.119-1.239
Propylene	4.00	7.31	0.547 ok	0.548	0.488-0.608
Styrene	14.35	13.32	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.31	1.129 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.35	13.32	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.47	13.32	1.086 ok	1.086	1.026-1.146
1,1,2-Trichloroethane	11.20	9.02	1.242 ok	1.242	1.182-1.302
1,2,4-Trichlorobenzene	19.23	13.32	1.444 ok	1.444	1.384-1.504
1,2,3-Trichloropropane	14.60	13.32	1.096 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.47	13.32	1.236 ok	1.237	1.177-1.297

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	15.97	13.32	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.02	1.063 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.58	7.31	0.763 ok	0.765	0.705-0.825
Tetrachloroethylene	12.63	13.32	0.948 ok	0.948	0.888-1.008
Tetrahydrofuran	7.74	7.31	1.059 ok	1.062	1.002-1.122
Toluene	11.47	9.02	1.272 ok	1.272	1.212-1.332
Trichloroethylene	9.66	9.02	1.071 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.12	7.31	0.700 ok	0.701	0.641-0.761
Vinyl chloride	4.29	7.31	0.587 ok	0.588	0.528-0.648
Vinyl Acetate	6.58	7.31	0.900 ok	0.901	0.841-0.961
m,p-Xylene	13.93	13.32	1.046 ok	1.046	0.986-1.106
o-Xylene	14.45	13.32	1.085 ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.32	7.31	0.728 ok	0.728	0.668-0.788
TVHC As Equiv Heptane	9.86	9.02	1.093 ok	1.093	1.033-1.153

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.31 ok	7.30	6.97-7.63	97311	ok 93035	55821-130249
1,4-Difluorobenzene	9.02 ok	9.02	8.69-9.35	423918	ok 396018	237611-554425
Chlorobenzene-D5	13.32 ok	13.32	12.99-13.65	204181	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.02	7.30	0.688 ok	0.689	0.629-0.749
Acrylonitrile	5.34	7.30	0.732 ok	0.732	0.672-0.792
Acetonitrile	4.88	7.30	0.668 ok	0.670	0.610-0.730
1,3-Butadiene	4.36	7.30	0.597 ok	0.598	0.538-0.658
Benzene	8.68	9.01	0.963 ok	0.963	0.903-1.023
Bromodichloromethane	9.63	9.01	1.069 ok	1.069	1.009-1.129
Bromoform	14.04	13.32	1.054 ok	1.054	0.994-1.114
Bromomethane	4.54	7.30	0.622 ok	0.622	0.562-0.682
Bromoethene	4.86	7.30	0.666 ok	0.666	0.606-0.726
n-Butane	4.39	7.30	0.601 ok	0.601	0.541-0.661
Benzyl Chloride	16.66	13.32	1.251 ok	1.251	1.191-1.311
n-Butylbenzene	17.50	13.32	1.314 ok	1.314	1.254-1.374
sec-Butylbenzene	16.80	13.32	1.261 ok	1.261	1.201-1.321
tert-Butylbenzene	16.45	13.32	1.235 ok	1.236	1.176-1.296
Carbon disulfide	5.85	7.30	0.801 ok	0.802	0.742-0.862
Chlorobenzene	13.36	13.32	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.98	7.30	0.545 ok	0.546	0.486-0.606
Chloroethane	4.63	7.30	0.634 ok	0.635	0.575-0.695
Chloroform	7.38	7.30	1.011 ok	1.012	0.952-1.072
Chloromethane	4.15	7.30	0.568 ok	0.569	0.509-0.629
3-Chloropropene	5.70	7.30	0.781 ok	0.782	0.722-0.842
2-Chlorotoluene	15.67	13.32	1.176 ok	1.177	1.117-1.237
Carbon tetrachloride	8.81	7.30	1.207 ok	1.208	1.148-1.268
Cyclohexane	8.86	9.01	0.983 ok	0.985	0.925-1.045
1,1-Dichloroethane	6.46	7.30	0.885 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.55	7.30	0.760 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.13	13.32	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.02	7.30	1.099 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.40	9.01	1.043 ok	1.044	0.984-1.104
1,4-Dioxane	9.73	9.01	1.080 ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.05	7.30	0.555 ok	0.555	0.495-0.615
Dibromochloromethane	11.92	13.32	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.29	7.30	0.862 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.17	7.30	0.982 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.52	9.01	1.168 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.67	13.32	1.252 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.18	13.32	1.290 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.75	13.32	1.258 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.03	9.01	1.224 ok	1.225	1.165-1.285

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	7.24	7.30	0.992 ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.06	9.01	1.006 ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.97	7.30	1.092 ok	1.093	1.033-1.153
Ethanol	4.73	7.30	0.648 ok	0.649	0.589-0.709
Ethylbenzene	13.74	13.32	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.32	7.30	1.003 ok	0.998	0.938-1.058
4-Ethyltoluene	15.87	13.32	1.191 ok	1.192	1.132-1.252
Freon 113	5.80	7.30	0.795 ok	0.794	0.734-0.854
Freon 114	4.21	7.30	0.577 ok	0.577	0.517-0.637
Freon 123	4.93	7.30	0.675 ok	0.675	0.615-0.735
Freon 123A	4.97	7.30	0.681 ok	0.681	0.621-0.741
Heptane	9.85	9.01	1.093 ok	1.093	1.033-1.153
Hexachlorobutadiene	19.79	13.32	1.486 ok	1.485	1.425-1.545
Hexachloroethane	17.99	13.32	1.351 ok	1.350	1.290-1.410
Hexane	7.22	7.30	0.989 ok	0.990	0.930-1.050
2-Hexanone	11.75	13.32	0.882 ok	0.881	0.821-0.941
Iodomethane	5.50	7.30	0.753 ok	0.754	0.694-0.814
Isopropylbenzene	15.10	13.32	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.19	7.30	0.711 ok	0.711	0.651-0.771
p-Isopropyltoluene	16.98	13.32	1.275 ok	1.275	1.215-1.335
Methylene chloride	5.64	7.30	0.773 ok	0.773	0.713-0.833
Methyl ethyl ketone	6.78	7.30	0.929 ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.52	9.01	1.168 ok	1.167	1.107-1.227
Methyl Tert Butyl Ether	6.48	7.30	0.888 ok	0.888	0.828-0.948
Methylmethacrylate	9.87	9.01	1.095 ok	1.095	1.035-1.155
Naphthalene	19.37	13.32	1.454 ok	1.454	1.394-1.514
Nonane	14.64	13.32	1.099 ok	1.099	1.039-1.159
Octane	12.42	13.32	0.932 ok	0.932	0.872-0.992
Pentane	5.31	7.30	0.727 ok	0.727	0.667-0.787
n-Propylbenzene	15.69	13.32	1.178 ok	1.179	1.119-1.239
Propylene	4.00	7.30	0.548 ok	0.548	0.488-0.608
Styrene	14.34	13.32	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.30	1.130 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.34	13.32	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.47	13.32	1.086 ok	1.086	1.026-1.146
1,1,2-Trichloroethane	11.20	9.01	1.243 ok	1.242	1.182-1.302
1,2,4-Trichlorobenzene	19.24	13.32	1.444 ok	1.444	1.384-1.504
1,2,3-Trichloropropane	14.60	13.32	1.096 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.47	13.32	1.236 ok	1.237	1.177-1.297

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	15.97	13.32	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.01	1.064 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.58	7.30	0.764 ok	0.765	0.705-0.825
Tetrachloroethylene	12.63	13.32	0.948 ok	0.948	0.888-1.008
Tetrahydrofuran	7.76	7.30	1.063 ok	1.062	1.002-1.122
Toluene	11.47	9.01	1.273 ok	1.272	1.212-1.332
Trichloroethylene	9.65	9.01	1.071 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.12	7.30	0.701 ok	0.701	0.641-0.761
Vinyl chloride	4.29	7.30	0.588 ok	0.588	0.528-0.648
Vinyl Acetate	6.58	7.30	0.901 ok	0.901	0.841-0.961
m,p-Xylene	13.93	13.32	1.046 ok	1.046	0.986-1.106
o-Xylene	14.45	13.32	1.085 ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.31	7.30	0.727 ok	0.728	0.668-0.788
TVHC As Equiv Heptane	9.85	9.01	1.093 ok	1.093	1.033-1.153

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.30 ok	7.30	6.97-7.63	92995	ok 93035	55821-130249
1,4-Difluorobenzene	9.01 ok	9.02	8.69-9.35	381632	ok 396018	237611-554425
Chlorobenzene-D5	13.32 ok	13.32	12.99-13.65	163050	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.04	7.29	0.691 ok	0.689	0.629-0.749
Acrylonitrile	5.34	7.29	0.733 ok	0.732	0.672-0.792
Acetonitrile	4.89	7.29	0.671 ok	0.670	0.610-0.730
1,3-Butadiene	4.37	7.29	0.599 ok	0.598	0.538-0.658
Benzene	8.67	9.01	0.962 ok	0.963	0.903-1.023
Bromodichloromethane	9.63	9.01	1.069 ok	1.069	1.009-1.129
Bromoform	14.03	13.32	1.053 ok	1.054	0.994-1.114
Bromomethane	4.54	7.29	0.623 ok	0.622	0.562-0.682
Bromoethene	4.86	7.29	0.667 ok	0.666	0.606-0.726
n-Butane	4.39	7.29	0.602 ok	0.601	0.541-0.661
Benzyl Chloride	16.66	13.32	1.251 ok	1.251	1.191-1.311
n-Butylbenzene	17.50	13.32	1.314 ok	1.314	1.254-1.374
sec-Butylbenzene	16.79	13.32	1.261 ok	1.261	1.201-1.321
tert-Butylbenzene	16.46	13.32	1.236 ok	1.236	1.176-1.296
Carbon disulfide	5.85	7.29	0.802 ok	0.802	0.742-0.862
Chlorobenzene	13.37	13.32	1.004 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.99	7.29	0.547 ok	0.546	0.486-0.606
Chloroethane	4.64	7.29	0.636 ok	0.635	0.575-0.695
Chloroform	7.38	7.29	1.012 ok	1.012	0.952-1.072
Chloromethane	4.16	7.29	0.571 ok	0.569	0.509-0.629
3-Chloropropene	5.71	7.29	0.783 ok	0.782	0.722-0.842
2-Chlorotoluene	15.68	13.32	1.177 ok	1.177	1.117-1.237
Carbon tetrachloride	8.82	7.29	1.210 ok	1.208	1.148-1.268
Cyclohexane	8.87	9.01	0.984 ok	0.985	0.925-1.045
1,1-Dichloroethane	6.46	7.29	0.886 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.55	7.29	0.761 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.13	13.32	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.02	7.29	1.100 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.40	9.01	1.043 ok	1.044	0.984-1.104
1,4-Dioxane	9.75	9.01	1.082 ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.05	7.29	0.556 ok	0.555	0.495-0.615
Dibromochloromethane	11.92	13.32	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.29	7.29	0.863 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.17	7.29	0.984 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.51	9.01	1.166 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.66	13.32	1.251 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.18	13.32	1.290 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.75	13.32	1.258 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.04	9.01	1.225 ok	1.225	1.165-1.285

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	7.25	7.29	0.995 ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.05	9.01	1.004 ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.97	7.29	1.093 ok	1.093	1.033-1.153
Ethanol	4.74	7.29	0.650 ok	0.649	0.589-0.709
Ethylbenzene	13.74	13.32	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.34	7.29	1.007 ok	0.998	0.938-1.058
4-Ethyltoluene	15.88	13.32	1.192 ok	1.192	1.132-1.252
Freon 113	5.80	7.29	0.796 ok	0.794	0.734-0.854
Freon 114	4.21	7.29	0.578 ok	0.577	0.517-0.637
Freon 123	4.93	7.29	0.676 ok	0.675	0.615-0.735
Freon 123A	4.97	7.29	0.682 ok	0.681	0.621-0.741
Heptane	9.85	9.01	1.093 ok	1.093	1.033-1.153
Hexachlorobutadiene	19.78	13.32	1.485 ok	1.485	1.425-1.545
Hexachloroethane	17.99	13.32	1.351 ok	1.350	1.290-1.410
Hexane	7.22	7.29	0.990 ok	0.990	0.930-1.050
2-Hexanone	11.76	13.32	0.883 ok	0.881	0.821-0.941
Iodomethane	5.50	7.29	0.754 ok	0.754	0.694-0.814
Isopropylbenzene	15.10	13.32	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.19	7.29	0.712 ok	0.711	0.651-0.771
p-Isopropyltoluene	16.98	13.32	1.275 ok	1.275	1.215-1.335
Methylene chloride	5.63	7.29	0.772 ok	0.773	0.713-0.833
Methyl ethyl ketone	6.79	7.29	0.931 ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.54	9.01	1.170 ok	1.167	1.107-1.227
Methyl Tert Butyl Ether	6.49	7.29	0.890 ok	0.888	0.828-0.948
Methylmethacrylate	9.88	9.01	1.097 ok	1.095	1.035-1.155
Naphthalene	19.38	13.32	1.455 ok	1.454	1.394-1.514
Nonane	14.64	13.32	1.099 ok	1.099	1.039-1.159
Octane	12.42	13.32	0.932 ok	0.932	0.872-0.992
Pentane	5.31	7.29	0.728 ok	0.727	0.667-0.787
n-Propylbenzene	15.69	13.32	1.178 ok	1.179	1.119-1.239
Propylene	4.00	7.29	0.549 ok	0.548	0.488-0.608
Styrene	14.34	13.32	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.24	7.29	1.130 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.35	13.32	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.47	13.32	1.086 ok	1.086	1.026-1.146
1,1,2-Trichloroethane	11.19	9.01	1.242 ok	1.242	1.182-1.302
1,2,4-Trichlorobenzene	19.23	13.32	1.444 ok	1.444	1.384-1.504
1,2,3-Trichloropropane	14.60	13.32	1.096 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.47	13.32	1.236 ok	1.237	1.177-1.297

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	15.97	13.32	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.01	1.064 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.59	7.29	0.767 ok	0.765	0.705-0.825
Tetrachloroethylene	12.62	13.32	0.947 ok	0.948	0.888-1.008
Tetrahydrofuran	7.79	7.29	1.069 ok	1.062	1.002-1.122
Toluene	11.47	9.01	1.273 ok	1.272	1.212-1.332
Trichloroethylene	9.66	9.01	1.072 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.12	7.29	0.702 ok	0.701	0.641-0.761
Vinyl chloride	4.29	7.29	0.588 ok	0.588	0.528-0.648
Vinyl Acetate	6.58	7.29	0.903 ok	0.901	0.841-0.961
m,p-Xylene	13.92	13.32	1.045 ok	1.046	0.986-1.106
o-Xylene	14.45	13.32	1.085 ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.30	7.29	0.727 ok	0.728	0.668-0.788
TVHC As Equiv Heptane	9.85	9.01	1.093 ok	1.093	1.033-1.153

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.29 ok	7.30	6.97-7.63	89260	ok 93035	55821-130249
1,4-Difluorobenzene	9.01 ok	9.02	8.69-9.35	371068	ok 396018	237611-554425
Chlorobenzene-D5	13.32 ok	13.32	12.99-13.65	155295	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.04	7.29	0.691 ok	0.689	0.629-0.749
Acetonitrile	4.90	7.29	0.672 ok	0.670	0.610-0.730
1,3-Butadiene	4.37	7.29	0.599 ok	0.598	0.538-0.658
Benzene	8.68	9.01	0.963 ok	0.963	0.903-1.023
Bromodichloromethane	9.63	9.01	1.069 ok	1.069	1.009-1.129
Bromoform	14.04	13.32	1.054 ok	1.054	0.994-1.114
Bromomethane	4.54	7.29	0.623 ok	0.622	0.562-0.682
Bromoethene	4.86	7.29	0.667 ok	0.666	0.606-0.726
n-Butane	4.39	7.29	0.602 ok	0.601	0.541-0.661
Benzyl Chloride	16.67	13.32	1.252 ok	1.251	1.191-1.311
Carbon disulfide	5.85	7.29	0.802 ok	0.802	0.742-0.862
Chlorobenzene	13.36	13.32	1.003 ok	1.003	0.943-1.063
Chloroethane	4.64	7.29	0.636 ok	0.635	0.575-0.695
Chloroform	7.38	7.29	1.012 ok	1.012	0.952-1.072
Chloromethane	4.16	7.29	0.571 ok	0.569	0.509-0.629
Carbon tetrachloride	8.81	7.29	1.209 ok	1.208	1.148-1.268
Cyclohexane	9.01	9.01	1.000 ok	0.985	0.925-1.045
1,1-Dichloroethane	6.47	7.29	0.888 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.56	7.29	0.763 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.14	13.32	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.04	7.29	1.103 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.41	9.01	1.044 ok	1.044	0.984-1.104
Dichlorodifluoromethane	4.06	7.29	0.557 ok	0.555	0.495-0.615
Dibromochloromethane	11.92	13.32	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.30	7.29	0.864 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.18	7.29	0.985 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.52	9.01	1.168 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.67	13.32	1.252 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.19	13.32	1.291 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.75	13.32	1.258 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.03	9.01	1.224 ok	1.225	1.165-1.285
Di-Isopropyl ether	7.26	7.29	0.996 ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.01	9.01	1.000 ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.97	7.29	1.093 ok	1.093	1.033-1.153
Ethanol	4.74	7.29	0.650 ok	0.649	0.589-0.709
Ethylbenzene	13.74	13.32	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.17	7.29	0.984 ok	0.998	0.938-1.058
4-Ethyltoluene	15.88	13.32	1.192 ok	1.192	1.132-1.252
Freon 113	5.79	7.29	0.794 ok	0.794	0.734-0.854

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Freon 114	4.21	7.29	0.578 ok	0.577	0.517-0.637
Freon 123	4.93	7.29	0.676 ok	0.675	0.615-0.735
Freon 123A	4.96	7.29	0.680 ok	0.681	0.621-0.741
Heptane	9.85	9.01	1.093 ok	1.093	1.033-1.153
Hexane	7.23	7.29	0.992 ok	0.990	0.930-1.050
Iodomethane	5.50	7.29	0.754 ok	0.754	0.694-0.814
Isopropylbenzene	15.10	13.32	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.21	7.29	0.715 ok	0.711	0.651-0.771
Methylene chloride	5.64	7.29	0.774 ok	0.773	0.713-0.833
Methyl Tert Butyl Ether	6.51	7.29	0.893 ok	0.888	0.828-0.948
Nonane	14.64	13.32	1.099 ok	1.099	1.039-1.159
Octane	12.41	13.32	0.932 ok	0.932	0.872-0.992
Pentane	5.31	7.29	0.728 ok	0.727	0.667-0.787
Propylene	4.01	7.29	0.550 ok	0.548	0.488-0.608
Styrene	14.34	13.32	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.29	1.132 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.34	13.32	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.48	13.32	1.087 ok	1.086	1.026-1.146
1,2,3-Trichloropropane	14.61	13.32	1.097 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.48	13.32	1.237 ok	1.237	1.177-1.297
1,3,5-Trimethylbenzene	15.97	13.32	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.01	1.064 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.60	7.29	0.768 ok	0.765	0.705-0.825
Tetrachloroethylene	12.63	13.32	0.948 ok	0.948	0.888-1.008
Toluene	11.47	9.01	1.273 ok	1.272	1.212-1.332
Trichloroethylene	9.66	9.01	1.072 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.11	7.29	0.701 ok	0.701	0.641-0.761
Vinyl chloride	4.29	7.29	0.588 ok	0.588	0.528-0.648
m,p-Xylene	13.93	13.32	1.046 ok	1.046	0.986-1.106
o-Xylene	14.45	13.32	1.085 ok	1.085	1.025-1.145

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.29 ok	7.30	6.97-7.63	92731	ok 93035	55821-130249
1,4-Difluorobenzene	9.01 ok	9.02	8.69-9.35	397164	ok 396018	237611-554425
Chlorobenzene-D5	13.32 ok	13.32	12.99-13.65	162939	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.04	7.30	0.690 ok	0.689	0.629-0.749
Acrylonitrile	5.35	7.30	0.733 ok	0.732	0.672-0.792
Acetonitrile	4.89	7.30	0.670 ok	0.670	0.610-0.730
1,3-Butadiene	4.37	7.30	0.599 ok	0.598	0.538-0.658
Benzene	8.67	9.01	0.962 ok	0.963	0.903-1.023
Bromodichloromethane	9.62	9.01	1.068 ok	1.069	1.009-1.129
Bromoform	14.04	13.32	1.054 ok	1.054	0.994-1.114
Bromomethane	4.55	7.30	0.623 ok	0.622	0.562-0.682
Bromoethene	4.86	7.30	0.666 ok	0.666	0.606-0.726
n-Butane	4.39	7.30	0.601 ok	0.601	0.541-0.661
Benzyl Chloride	16.66	13.32	1.251 ok	1.251	1.191-1.311
n-Butylbenzene	17.50	13.32	1.314 ok	1.314	1.254-1.374
sec-Butylbenzene	16.79	13.32	1.261 ok	1.261	1.201-1.321
tert-Butylbenzene	16.46	13.32	1.236 ok	1.236	1.176-1.296
Carbon disulfide	5.85	7.30	0.801 ok	0.802	0.742-0.862
Chlorobenzene	13.36	13.32	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.98	7.30	0.545 ok	0.546	0.486-0.606
Chloroethane	4.63	7.30	0.634 ok	0.635	0.575-0.695
Chloroform	7.39	7.30	1.012 ok	1.012	0.952-1.072
Chloromethane	4.16	7.30	0.570 ok	0.569	0.509-0.629
3-Chloropropene	5.71	7.30	0.782 ok	0.782	0.722-0.842
2-Chlorotoluene	15.67	13.32	1.176 ok	1.177	1.117-1.237
Carbon tetrachloride	8.81	7.30	1.207 ok	1.208	1.148-1.268
1,1-Dichloroethane	6.46	7.30	0.885 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.54	7.30	0.759 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.13	13.32	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.03	7.30	1.100 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.40	9.01	1.043 ok	1.044	0.984-1.104
1,4-Dioxane	9.76	9.01	1.083 ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.05	7.30	0.555 ok	0.555	0.495-0.615
Dibromochloromethane	11.92	13.32	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.29	7.30	0.862 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.18	7.30	0.984 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.51	9.01	1.166 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.66	13.32	1.251 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.19	13.32	1.291 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.75	13.32	1.258 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.04	9.01	1.225 ok	1.225	1.165-1.285
Di-Isopropyl ether	7.26	7.30	0.995 ok	0.993	0.933-1.053

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
2,4-Dimethylpentane	7.98	7.30	1.093 ok	1.093	1.033-1.153
Ethanol	4.74	7.30	0.649 ok	0.649	0.589-0.709
Ethylbenzene	13.74	13.32	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.17	7.30	0.982 ok	0.998	0.938-1.058
4-Ethyltoluene	15.88	13.32	1.192 ok	1.192	1.132-1.252
Freon 113	5.79	7.30	0.793 ok	0.794	0.734-0.854
Freon 114	4.21	7.30	0.577 ok	0.577	0.517-0.637
Freon 123	4.93	7.30	0.675 ok	0.675	0.615-0.735
Freon 123A	4.97	7.30	0.681 ok	0.681	0.621-0.741
Heptane	9.85	9.01	1.093 ok	1.093	1.033-1.153
Hexachlorobutadiene	19.78	13.32	1.485 ok	1.485	1.425-1.545
Hexachloroethane	17.99	13.32	1.351 ok	1.350	1.290-1.410
Hexane	7.23	7.30	0.990 ok	0.990	0.930-1.050
2-Hexanone	11.76	13.32	0.883 ok	0.881	0.821-0.941
Iodomethane	5.50	7.30	0.753 ok	0.754	0.694-0.814
Isopropylbenzene	15.10	13.32	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.20	7.30	0.712 ok	0.711	0.651-0.771
p-Isopropyltoluene	16.98	13.32	1.275 ok	1.275	1.215-1.335
Methylene chloride	5.64	7.30	0.773 ok	0.773	0.713-0.833
Methyl Isobutyl Ketone	10.54	9.01	1.170 ok	1.167	1.107-1.227
Methyl Tert Butyl Ether	6.50	7.30	0.890 ok	0.888	0.828-0.948
Methylmethacrylate	9.88	9.01	1.097 ok	1.095	1.035-1.155
Nonane	14.64	13.32	1.099 ok	1.099	1.039-1.159
Octane	12.41	13.32	0.932 ok	0.932	0.872-0.992
Pentane	5.30	7.30	0.726 ok	0.727	0.667-0.787
n-Propylbenzene	15.70	13.32	1.179 ok	1.179	1.119-1.239
Propylene	4.01	7.30	0.549 ok	0.548	0.488-0.608
Styrene	14.34	13.32	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.30	1.130 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.34	13.32	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.47	13.32	1.086 ok	1.086	1.026-1.146
1,1,2-Trichloroethane	11.19	9.01	1.242 ok	1.242	1.182-1.302
1,2,3-Trichloropropane	14.59	13.32	1.095 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.47	13.32	1.236 ok	1.237	1.177-1.297
1,3,5-Trimethylbenzene	15.97	13.32	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.01	1.064 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.61	7.30	0.768 ok	0.765	0.705-0.825
Tetrachloroethylene	12.62	13.32	0.947 ok	0.948	0.888-1.008
Tetrahydrofuran	7.79	7.30	1.067 ok	1.062	1.002-1.122

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Toluene	11.47	9.01	1.273 ok	1.272	1.212-1.332
Trichloroethylene	9.65	9.01	1.071 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.12	7.30	0.701 ok	0.701	0.641-0.761
Vinyl chloride	4.29	7.30	0.588 ok	0.588	0.528-0.648
m,p-Xylene	13.94	13.32	1.047 ok	1.046	0.986-1.106
o-Xylene	14.45	13.32	1.085 ok	1.085	1.025-1.145

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.30 ok	7.30	6.97-7.63	92117	ok 93035	55821-130249
1,4-Difluorobenzene	9.01 ok	9.02	8.69-9.35	378846	ok 396018	237611-554425
Chlorobenzene-D5	13.32 ok	13.32	12.99-13.65	158581	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.01	7.31	0.685 ok	0.689	0.629-0.749
Acrylonitrile	5.34	7.31	0.731 ok	0.732	0.672-0.792
Acetonitrile	4.88	7.31	0.668 ok	0.670	0.610-0.730
1,3-Butadiene	4.37	7.31	0.598 ok	0.598	0.538-0.658
Benzene	8.69	9.03	0.962 ok	0.963	0.903-1.023
Bromodichloromethane	9.64	9.03	1.068 ok	1.069	1.009-1.129
Bromoform	14.05	13.33	1.054 ok	1.054	0.994-1.114
Bromomethane	4.54	7.31	0.621 ok	0.622	0.562-0.682
Bromoethene	4.86	7.31	0.665 ok	0.666	0.606-0.726
n-Butane	4.39	7.31	0.601 ok	0.601	0.541-0.661
Benzyl Chloride	16.67	13.33	1.251 ok	1.251	1.191-1.311
n-Butylbenzene	17.51	13.33	1.314 ok	1.314	1.254-1.374
sec-Butylbenzene	16.80	13.33	1.260 ok	1.261	1.201-1.321
tert-Butylbenzene	16.47	13.33	1.236 ok	1.236	1.176-1.296
Carbon disulfide	5.86	7.31	0.802 ok	0.802	0.742-0.862
Chlorobenzene	13.37	13.33	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	3.99	7.31	0.546 ok	0.546	0.486-0.606
Chloroethane	4.64	7.31	0.635 ok	0.635	0.575-0.695
Chloroform	7.40	7.31	1.012 ok	1.012	0.952-1.072
Chloromethane	4.16	7.31	0.569 ok	0.569	0.509-0.629
3-Chloropropene	5.71	7.31	0.781 ok	0.782	0.722-0.842
2-Chlorotoluene	15.68	13.33	1.176 ok	1.177	1.117-1.237
Carbon tetrachloride	8.82	7.31	1.207 ok	1.208	1.148-1.268
Cyclohexane	8.87	9.03	0.982 ok	0.985	0.925-1.045
1,1-Dichloroethane	6.47	7.31	0.885 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.55	7.31	0.759 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.14	13.33	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.04	7.31	1.100 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.41	9.03	1.042 ok	1.044	0.984-1.104
1,4-Dioxane	9.70	9.03	1.074 ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.05	7.31	0.554 ok	0.555	0.495-0.615
Dibromochloromethane	11.93	13.33	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.30	7.31	0.862 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.18	7.31	0.982 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.52	9.03	1.165 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.67	13.33	1.251 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.19	13.33	1.290 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.76	13.33	1.257 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.05	9.03	1.224 ok	1.225	1.165-1.285

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	7.24	7.31	0.990 ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.06	9.03	1.003 ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.99	7.31	1.093 ok	1.093	1.033-1.153
Ethanol	4.73	7.31	0.647 ok	0.649	0.589-0.709
Ethylbenzene	13.75	13.33	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.31	7.31	1.000 ok	0.998	0.938-1.058
4-Ethyltoluene	15.88	13.33	1.191 ok	1.192	1.132-1.252
Freon 113	5.80	7.31	0.793 ok	0.794	0.734-0.854
Freon 114	4.21	7.31	0.576 ok	0.577	0.517-0.637
Freon 123	4.93	7.31	0.674 ok	0.675	0.615-0.735
Freon 123A	4.97	7.31	0.680 ok	0.681	0.621-0.741
Heptane	9.86	9.03	1.092 ok	1.093	1.033-1.153
Hexachlorobutadiene	19.79	13.33	1.485 ok	1.485	1.425-1.545
Hexachloroethane	17.99	13.33	1.350 ok	1.350	1.290-1.410
Hexane	7.23	7.31	0.989 ok	0.990	0.930-1.050
2-Hexanone	11.72	13.33	0.879 ok	0.881	0.821-0.941
Iodomethane	5.51	7.31	0.754 ok	0.754	0.694-0.814
Isopropylbenzene	15.11	13.33	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.18	7.31	0.709 ok	0.711	0.651-0.771
p-Isopropyltoluene	16.99	13.33	1.275 ok	1.275	1.215-1.335
Methylene chloride	5.65	7.31	0.773 ok	0.773	0.713-0.833
Methyl ethyl ketone	6.76	7.31	0.925 ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.50	9.03	1.163 ok	1.167	1.107-1.227
Methyl Tert Butyl Ether	6.47	7.31	0.885 ok	0.888	0.828-0.948
Methylmethacrylate	9.87	9.03	1.093 ok	1.095	1.035-1.155
Naphthalene	19.37	13.33	1.453 ok	1.454	1.394-1.514
Nonane	14.65	13.33	1.099 ok	1.099	1.039-1.159
Octane	12.42	13.33	0.932 ok	0.932	0.872-0.992
Pentane	5.32	7.31	0.728 ok	0.727	0.667-0.787
n-Propylbenzene	15.71	13.33	1.179 ok	1.179	1.119-1.239
Propylene	4.00	7.31	0.547 ok	0.548	0.488-0.608
Styrene	14.36	13.33	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.31	1.129 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.35	13.33	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.48	13.33	1.086 ok	1.086	1.026-1.146
1,1,2-Trichloroethane	11.21	9.03	1.241 ok	1.242	1.182-1.302
1,2,4-Trichlorobenzene	19.23	13.33	1.443 ok	1.444	1.384-1.504
1,2,3-Trichloropropane	14.61	13.33	1.096 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.48	13.33	1.236 ok	1.237	1.177-1.297

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15 Reporting this level
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	15.98	13.33	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.03	1.062 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.57	7.31	0.762 ok	0.765	0.705-0.825
Tetrachloroethylene	12.63	13.33	0.947 ok	0.948	0.888-1.008
Tetrahydrofuran	7.73	7.31	1.057 ok	1.062	1.002-1.122
Toluene	11.47	9.03	1.270 ok	1.272	1.212-1.332
Trichloroethylene	9.67	9.03	1.071 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.12	7.31	0.700 ok	0.701	0.641-0.761
Vinyl chloride	4.29	7.31	0.587 ok	0.588	0.528-0.648
Vinyl Acetate	6.58	7.31	0.900 ok	0.901	0.841-0.961
m,p-Xylene	13.94	13.33	1.046 ok	1.046	0.986-1.106
o-Xylene	14.45	13.33	1.084 ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.32	7.31	0.728 ok	0.728	0.668-0.788
TVHC As Equiv Heptane	9.86	9.03	1.092 ok	1.093	1.033-1.153

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.31 ok	7.30	6.97-7.63	97922	ok 93035	55821-130249
1,4-Difluorobenzene	9.03 ok	9.02	8.69-9.35	423926	ok 396018	237611-554425
Chlorobenzene-D5	13.33 ok	13.32	12.99-13.65	233680	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.06	7.31	0.692 ok	0.689	0.629-0.749
Acrylonitrile	5.36	7.31	0.733 ok	0.732	0.672-0.792
Acetonitrile	4.92	7.31	0.673 ok	0.670	0.610-0.730
1,3-Butadiene	4.37	7.31	0.598 ok	0.598	0.538-0.658
Benzene	8.69	9.02	0.963 ok	0.963	0.903-1.023
Bromodichloromethane	9.64	9.02	1.069 ok	1.069	1.009-1.129
Bromoform	14.05	13.32	1.055 ok	1.054	0.994-1.114
Bromomethane	4.56	7.31	0.624 ok	0.622	0.562-0.682
Bromoethene	4.87	7.31	0.666 ok	0.666	0.606-0.726
n-Butane	4.40	7.31	0.602 ok	0.601	0.541-0.661
Benzyl Chloride	16.67	13.32	1.252 ok	1.251	1.191-1.311
n-Butylbenzene	17.50	13.32	1.314 ok	1.314	1.254-1.374
sec-Butylbenzene	16.80	13.32	1.261 ok	1.261	1.201-1.321
tert-Butylbenzene	16.46	13.32	1.236 ok	1.236	1.176-1.296
Carbon disulfide	5.86	7.31	0.802 ok	0.802	0.742-0.862
Chlorobenzene	13.36	13.32	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.00	7.31	0.547 ok	0.546	0.486-0.606
Chloroethane	4.65	7.31	0.636 ok	0.635	0.575-0.695
Chloroform	7.40	7.31	1.012 ok	1.012	0.952-1.072
Chloromethane	4.17	7.31	0.570 ok	0.569	0.509-0.629
3-Chloropropene	5.71	7.31	0.781 ok	0.782	0.722-0.842
2-Chlorotoluene	15.68	13.32	1.177 ok	1.177	1.117-1.237
Carbon tetrachloride	8.83	7.31	1.208 ok	1.208	1.148-1.268
Cyclohexane	8.88	9.02	0.984 ok	0.985	0.925-1.045
1,1-Dichloroethane	6.47	7.31	0.885 ok	0.886	0.826-0.946
1,1-Dichloroethylene	5.55	7.31	0.759 ok	0.760	0.700-0.820
1,2-Dibromoethane	12.14	13.32	0.911 ok	0.911	0.851-0.971
1,2-Dichloroethane	8.04	7.31	1.100 ok	1.100	1.040-1.160
1,2-Dichloropropane	9.42	9.02	1.044 ok	1.044	0.984-1.104
1,4-Dioxane	9.79	9.02	1.085 ok	1.079	1.019-1.139
Dichlorodifluoromethane	4.06	7.31	0.555 ok	0.555	0.495-0.615
Dibromochloromethane	11.92	13.32	0.895 ok	0.895	0.835-0.955
trans-1,2-Dichloroethylene	6.30	7.31	0.862 ok	0.862	0.802-0.922
cis-1,2-Dichloroethylene	7.18	7.31	0.982 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	10.52	9.02	1.166 ok	1.167	1.107-1.227
m-Dichlorobenzene	16.67	13.32	1.252 ok	1.251	1.191-1.311
o-Dichlorobenzene	17.18	13.32	1.290 ok	1.290	1.230-1.350
p-Dichlorobenzene	16.75	13.32	1.258 ok	1.257	1.197-1.317
trans-1,3-Dichloropropene	11.05	9.02	1.225 ok	1.225	1.165-1.285

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	7.26	7.31	0.993 ok	0.993	0.933-1.053
2,3-Dimethylpentane	9.06	9.02	1.004 ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.99	7.31	1.093 ok	1.093	1.033-1.153
Ethanol	4.77	7.31	0.653 ok	0.649	0.589-0.709
Ethylbenzene	13.74	13.32	1.032 ok	1.032	0.972-1.092
Ethyl Acetate	7.35	7.31	1.005 ok	0.998	0.938-1.058
4-Ethyltoluene	15.88	13.32	1.192 ok	1.192	1.132-1.252
Freon 113	5.80	7.31	0.793 ok	0.794	0.734-0.854
Freon 114	4.22	7.31	0.577 ok	0.577	0.517-0.637
Freon 123	4.95	7.31	0.677 ok	0.675	0.615-0.735
Freon 123A	4.98	7.31	0.681 ok	0.681	0.621-0.741
Heptane	9.85	9.02	1.092 ok	1.093	1.033-1.153
Hexachlorobutadiene	19.79	13.32	1.486 ok	1.485	1.425-1.545
Hexachloroethane	17.99	13.32	1.351 ok	1.350	1.290-1.410
Hexane	7.23	7.31	0.989 ok	0.990	0.930-1.050
2-Hexanone	11.77	13.32	0.884 ok	0.881	0.821-0.941
Iodomethane	5.51	7.31	0.754 ok	0.754	0.694-0.814
Isopropylbenzene	15.10	13.32	1.134 ok	1.134	1.074-1.194
Isopropyl Alcohol	5.23	7.31	0.715 ok	0.711	0.651-0.771
p-Isopropyltoluene	16.99	13.32	1.276 ok	1.275	1.215-1.335
Methylene chloride	5.66	7.31	0.774 ok	0.773	0.713-0.833
Methyl ethyl ketone	6.81	7.31	0.932 ok	0.928	0.868-0.988
Methyl Isobutyl Ketone	10.55	9.02	1.170 ok	1.167	1.107-1.227
Methyl Tert Butyl Ether	6.51	7.31	0.891 ok	0.888	0.828-0.948
Methylmethacrylate	9.90	9.02	1.098 ok	1.095	1.035-1.155
Naphthalene	19.38	13.32	1.455 ok	1.454	1.394-1.514
Nonane	14.64	13.32	1.099 ok	1.099	1.039-1.159
Octane	12.42	13.32	0.932 ok	0.932	0.872-0.992
Pentane	5.32	7.31	0.728 ok	0.727	0.667-0.787
n-Propylbenzene	15.71	13.32	1.179 ok	1.179	1.119-1.239
Propylene	4.01	7.31	0.549 ok	0.548	0.488-0.608
Styrene	14.34	13.32	1.077 ok	1.077	1.017-1.137
1,1,1-Trichloroethane	8.25	7.31	1.129 ok	1.130	1.070-1.190
1,1,1,2-Tetrachloroethane	13.35	13.32	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.47	13.32	1.086 ok	1.086	1.026-1.146
1,1,2-Trichloroethane	11.21	9.02	1.243 ok	1.242	1.182-1.302
1,2,4-Trichlorobenzene	19.24	13.32	1.444 ok	1.444	1.384-1.504
1,2,3-Trichloropropane	14.60	13.32	1.096 ok	1.096	1.036-1.156
1,2,4-Trimethylbenzene	16.47	13.32	1.236 ok	1.237	1.177-1.297

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V3W886-IC886	3W22416.D	05/13/11 10:33	YXC	5	GCMS3W	TO-15
V3W886-IC886	3W22418.D	05/13/11 12:34	YXC	20	GCMS3W	TO-15
V3W886-ICC886	3W22419.D	05/13/11 13:14	YXC	10	GCMS3W	TO-15
V3W886-IC886	3W22420.D	05/13/11 13:57	YXC	1	GCMS3W	TO-15
V3W886-IC886	3W22421.D	05/13/11 14:37	YXC	0.2	GCMS3W	TO-15
V3W886-IC886	3W22422.D	05/13/11 15:57	YXC	0.04	GCMS3W	TO-15
V3W886-IC886	3W22423.D	05/13/11 16:38	YXC	0.1	GCMS3W	TO-15
V3W886-IC886	3W22424.D	05/13/11 17:20	YXC	40	GCMS3W	TO-15
V3W886-IC886	3W22425.D	05/13/11 19:21	YXC	0.5	GCMS3W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	15.97	13.32	1.199 ok	1.199	1.139-1.259
2,2,4-Trimethylpentane	9.59	9.02	1.063 ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	5.64	7.31	0.772 ok	0.765	0.705-0.825
Tetrachloroethylene	12.63	13.32	0.948 ok	0.948	0.888-1.008
Tetrahydrofuran	7.80	7.31	1.067 ok	1.062	1.002-1.122
Toluene	11.47	9.02	1.272 ok	1.272	1.212-1.332
Trichloroethylene	9.66	9.02	1.071 ok	1.071	1.011-1.131
Trichlorofluoromethane	5.13	7.31	0.702 ok	0.701	0.641-0.761
Vinyl chloride	4.30	7.31	0.588 ok	0.588	0.528-0.648
Vinyl Acetate	6.59	7.31	0.902 ok	0.901	0.841-0.961
m,p-Xylene	13.94	13.32	1.047 ok	1.046	0.986-1.106
o-Xylene	14.45	13.32	1.085 ok	1.085	1.025-1.145
TVHC As Equiv Pentane	5.32	7.31	0.728 ok	0.728	0.668-0.788
TVHC As Equiv Heptane	9.86	9.02	1.093 ok	1.093	1.033-1.153

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.31 ok	7.30	6.97-7.63	91675	ok 93035	55821-130249
1,4-Difluorobenzene	9.02 ok	9.02	8.69-9.35	382259	ok 396018	237611-554425
Chlorobenzene-D5	13.32 ok	13.32	12.99-13.65	163378	ok 181415	108849-253981

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1322-ICC1322	W32352.D	06/21/11 17:20	YM	10	GCMSW	TO-15	Reporting this level
VW1322-IC1322	W32353.D	06/21/11 18:00	YM	0.5	GCMSW	TO-15	
VW1322-IC1322	W32356.D	06/21/11 20:00	YM	20	GCMSW	TO-15	
VW1322-IC1322	W32357.D	06/21/11 20:40	YM	5.0	GCMSW	TO-15	
VW1322-IC1322	W32359.D	06/21/11 22:00	YM	0.04	GCMSW	TO-15	
VW1322-IC1322	W32360.D	06/21/11 22:40	YM	40	GCMSW	TO-15	
VW1322-IC1322	W32364.D	06/22/11 09:56	YM	0.2	GCMSW	TO-15	
VW1322-IC1322	W32365.D	06/22/11 10:36	YM	0.1	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	6.18	8.62	0.717 ok	0.717	0.657-0.777
Acrolein	6.07	8.62	0.704 ok	0.705	0.645-0.765
Acrylonitrile	6.52	8.62	0.756 ok	0.756	0.696-0.816
Acetonitrile	5.98	8.62	0.694 ok	0.694	0.634-0.754
1,3-Butadiene	5.39	8.62	0.625 ok	0.625	0.565-0.685
Benzene	10.01	10.30	0.972 ok	0.971	0.911-1.031
Bromodichloromethane	10.93	10.30	1.061 ok	1.062	1.002-1.122
Bromoform	15.27	14.55	1.049 ok	1.050	0.990-1.110
Bromomethane	5.60	8.62	0.650 ok	0.650	0.590-0.710
Bromoethene	5.99	8.62	0.695 ok	0.696	0.636-0.756
n-Butane	5.42	8.62	0.629 ok	0.629	0.569-0.689
Benzyl Chloride	17.78	14.55	1.222 ok	1.223	1.163-1.283
n-Butylbenzene	18.59	14.55	1.278 ok	1.278	1.218-1.338
sec-Butylbenzene	17.93	14.55	1.232 ok	1.232	1.172-1.292
tert-Butylbenzene	17.61	14.55	1.210 ok	1.211	1.151-1.271
Carbon disulfide	7.14	8.62	0.828 ok	0.829	0.769-0.889
Chlorobenzene	14.60	14.55	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.88	8.62	0.566 ok	0.567	0.507-0.627
Chloroethane	5.73	8.62	0.665 ok	0.665	0.605-0.725
Chloroform	8.72	8.62	1.012 ok	1.012	0.952-1.072
Chloromethane	5.10	8.62	0.592 ok	0.592	0.532-0.652
3-Chloropropene	6.96	8.62	0.807 ok	0.808	0.748-0.868
2-Chlorotoluene	16.87	14.55	1.159 ok	1.160	1.100-1.220
Carbon tetrachloride	10.14	8.62	1.176 ok	1.176	1.116-1.236
Cyclohexane	10.25	10.30	0.995 ok	0.995	0.935-1.055
1,1-Dichloroethane	7.78	8.62	0.903 ok	0.903	0.843-0.963
1,1-Dichloroethylene	6.79	8.62	0.788 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.42	14.55	0.922 ok	0.923	0.863-0.983
1,2-Dichloroethane	9.37	8.62	1.087 ok	1.087	1.027-1.147
1,2-Dichloropropane	10.75	10.30	1.044 ok	1.044	0.984-1.104
1,4-Dioxane	10.98	10.30	1.066 ok	1.069	1.009-1.129
Dichlorodifluoromethane	4.97	8.62	0.577 ok	0.577	0.517-0.637
Dibromochloromethane	13.18	14.55	0.906 ok	0.906	0.846-0.966
trans-1,2-Dichloroethylene	7.61	8.62	0.883 ok	0.883	0.823-0.943
cis-1,2-Dichloroethylene	8.47	8.62	0.983 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.77	10.30	1.143 ok	1.143	1.083-1.203
m-Dichlorobenzene	17.80	14.55	1.223 ok	1.224	1.164-1.284
o-Dichlorobenzene	18.27	14.55	1.256 ok	1.256	1.196-1.316
p-Dichlorobenzene	17.88	14.55	1.229 ok	1.229	1.169-1.289
trans-1,3-Dichloropropene	12.29	10.30	1.193 ok	1.193	1.133-1.253

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15	Reporting this level
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15	
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15	
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15	
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15	
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15	
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15	
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	8.61	8.62	0.999 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.44	10.30	1.014 ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.38	8.62	1.088 ok	1.089	1.029-1.149
Ethanol	5.81	8.62	0.674 ok	0.675	0.615-0.735
Ethylbenzene	14.98	14.55	1.030 ok	1.030	0.970-1.090
Ethyl Acetate	8.63	8.62	1.001 ok	1.002	0.942-1.062
4-Ethyltoluene	17.07	14.55	1.173 ok	1.174	1.114-1.234
Freon 113	7.06	8.62	0.819 ok	0.820	0.760-0.880
Freon 114	5.18	8.62	0.601 ok	0.601	0.541-0.661
Freon 123	6.08	8.62	0.705 ok	0.706	0.646-0.766
Freon 123A	6.12	8.62	0.710 ok	0.711	0.651-0.771
Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148
Hexachlorobutadiene	20.74	14.55	1.425 ok	1.426	1.366-1.486
Hexachloroethane	19.04	14.55	1.309 ok	1.309	1.249-1.369
Hexane	8.62	8.62	1.000 ok	1.001	0.941-1.061
2-Hexanone	12.99	14.55	0.893 ok	0.894	0.834-0.954
Iodomethane	6.74	8.62	0.782 ok	0.783	0.723-0.843
Isopropylbenzene	16.34	14.55	1.123 ok	1.123	1.063-1.183
Isopropyl Alcohol	6.35	8.62	0.737 ok	0.738	0.678-0.798
p-Isopropyltoluene	18.11	14.55	1.245 ok	1.245	1.185-1.305
Methylene chloride	6.87	8.62	0.797 ok	0.798	0.738-0.858
Methyl ethyl ketone	8.10	8.62	0.940 ok	0.941	0.881-1.001
Methyl Isobutyl Ketone	11.81	10.30	1.147 ok	1.148	1.088-1.208
Methyl Tert Butyl Ether	7.82	8.62	0.907 ok	0.908	0.848-0.968
Methylmethacrylate	11.13	10.30	1.081 ok	1.081	1.021-1.141
Naphthalene	20.35	14.55	1.399 ok	1.399	1.339-1.459
Nonane	15.91	14.55	1.093 ok	1.094	1.034-1.154
Octane	13.71	14.55	0.942 ok	0.942	0.882-1.002
Pentane	6.56	8.62	0.761 ok	0.762	0.702-0.822
n-Propylbenzene	16.91	14.55	1.162 ok	1.162	1.102-1.222
Propylene	4.91	8.62	0.570 ok	0.570	0.510-0.630
Styrene	15.57	14.55	1.070 ok	1.071	1.011-1.131
1,1,1-Trichloroethane	9.59	8.62	1.113 ok	1.113	1.053-1.173
1,1,1,2-Tetrachloroethane	14.57	14.55	1.001 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.69	14.55	1.078 ok	1.079	1.019-1.139
1,1,2-Trichloroethane	12.46	10.30	1.210 ok	1.210	1.150-1.270
1,2,4-Trichlorobenzene	20.23	14.55	1.390 ok	1.391	1.331-1.451
1,2,3-Trichloropropane	15.83	14.55	1.088 ok	1.088	1.028-1.148
1,2,4-Trimethylbenzene	17.62	14.55	1.211 ok	1.212	1.152-1.272
1,3,5-Trimethylbenzene	17.16	14.55	1.179 ok	1.180	1.120-1.240

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15	Reporting this level
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15	
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15	
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15	
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15	
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15	
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15	
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
2,2,4-Trimethylpentane	10.98	10.30	1.066 ok	1.066	1.006-1.126
Tertiary Butyl Alcohol	6.81	8.62	0.790 ok	0.793	0.733-0.853
Tetrachloroethylene	13.88	14.55	0.954 ok	0.955	0.895-1.015
Tetrahydrofuran	9.09	8.62	1.055 ok	1.057	0.997-1.117
Toluene	12.74	10.30	1.237 ok	1.237	1.177-1.297
Trichloroethylene	10.96	10.30	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.30	8.62	0.731 ok	0.731	0.671-0.791
Vinyl chloride	5.28	8.62	0.613 ok	0.613	0.553-0.673
Vinyl Acetate	7.87	8.62	0.913 ok	0.914	0.854-0.974
m,p-Xylene	15.17	14.55	1.043 ok	1.043	0.983-1.103
o-Xylene	15.69	14.55	1.078 ok	1.078	1.018-1.138
TVHC As Equiv Pentane	6.56	8.62	0.761 ok	0.761	0.701-0.821
TVHC As Equiv Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.62 ok	8.61	8.28-8.94	144503 ok	144432	86659-202205
1,4-Difluorobenzene	10.30 ok	10.30	9.97-10.63	742920 ok	737254	442352-1032156
Chlorobenzene-D5	14.55 ok	14.54	14.21-14.87	363631 ok	352412	211447-493377

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15 Reporting this level
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.18	8.61	0.718 ok	0.717	0.657-0.777
Acrolein	6.09	8.61	0.707 ok	0.705	0.645-0.765
Acrylonitrile	6.52	8.61	0.757 ok	0.756	0.696-0.816
Acetonitrile	5.98	8.61	0.695 ok	0.694	0.634-0.754
1,3-Butadiene	5.39	8.61	0.626 ok	0.625	0.565-0.685
Benzene	10.00	10.30	0.971 ok	0.971	0.911-1.031
Bromodichloromethane	10.93	10.30	1.061 ok	1.062	1.002-1.122
Bromoform	15.27	14.54	1.050 ok	1.050	0.990-1.110
Bromomethane	5.60	8.61	0.650 ok	0.650	0.590-0.710
Bromoethene	5.99	8.61	0.696 ok	0.696	0.636-0.756
n-Butane	5.42	8.61	0.630 ok	0.629	0.569-0.689
Benzyl Chloride	17.78	14.54	1.223 ok	1.223	1.163-1.283
n-Butylbenzene	18.59	14.54	1.279 ok	1.278	1.218-1.338
sec-Butylbenzene	17.93	14.54	1.233 ok	1.232	1.172-1.292
tert-Butylbenzene	17.61	14.54	1.211 ok	1.211	1.151-1.271
Carbon disulfide	7.15	8.61	0.830 ok	0.829	0.769-0.889
Chlorobenzene	14.59	14.54	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.89	8.61	0.568 ok	0.567	0.507-0.627
Chloroethane	5.73	8.61	0.666 ok	0.665	0.605-0.725
Chloroform	8.71	8.61	1.012 ok	1.012	0.952-1.072
Chloromethane	5.11	8.61	0.593 ok	0.592	0.532-0.652
3-Chloropropene	6.96	8.61	0.808 ok	0.808	0.748-0.868
2-Chlorotoluene	16.87	14.54	1.160 ok	1.160	1.100-1.220
Carbon tetrachloride	10.13	8.61	1.177 ok	1.176	1.116-1.236
Cyclohexane	10.24	10.30	0.994 ok	0.995	0.935-1.055
1,1-Dichloroethane	7.77	8.61	0.902 ok	0.903	0.843-0.963
1,1-Dichloroethylene	6.79	8.61	0.789 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.42	14.54	0.923 ok	0.923	0.863-0.983
1,2-Dichloroethane	9.36	8.61	1.087 ok	1.087	1.027-1.147
1,2-Dichloropropane	10.75	10.30	1.044 ok	1.044	0.984-1.104
1,4-Dioxane	11.04	10.30	1.072 ok	1.069	1.009-1.129
Dichlorodifluoromethane	4.97	8.61	0.577 ok	0.577	0.517-0.637
Dibromochloromethane	13.17	14.54	0.906 ok	0.906	0.846-0.966
trans-1,2-Dichloroethylene	7.61	8.61	0.884 ok	0.883	0.823-0.943
cis-1,2-Dichloroethylene	8.46	8.61	0.983 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.77	10.30	1.143 ok	1.143	1.083-1.203
m-Dichlorobenzene	17.80	14.54	1.224 ok	1.224	1.164-1.284
o-Dichlorobenzene	18.27	14.54	1.257 ok	1.256	1.196-1.316
p-Dichlorobenzene	17.88	14.54	1.230 ok	1.229	1.169-1.289
trans-1,3-Dichloropropene	12.28	10.30	1.192 ok	1.193	1.133-1.253

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15 Reporting this level
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	8.62	8.61	1.001 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.43	10.30	1.013 ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.38	8.61	1.089 ok	1.089	1.029-1.149
Ethanol	5.82	8.61	0.676 ok	0.675	0.615-0.735
Ethylbenzene	14.97	14.54	1.030 ok	1.030	0.970-1.090
Ethyl Acetate	8.63	8.61	1.002 ok	1.002	0.942-1.062
4-Ethyltoluene	17.07	14.54	1.174 ok	1.174	1.114-1.234
Freon 113	7.06	8.61	0.820 ok	0.820	0.760-0.880
Freon 114	5.18	8.61	0.602 ok	0.601	0.541-0.661
Freon 123	6.09	8.61	0.707 ok	0.706	0.646-0.766
Freon 123A	6.12	8.61	0.711 ok	0.711	0.651-0.771
Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148
Hexachlorobutadiene	20.74	14.54	1.426 ok	1.426	1.366-1.486
Hexachloroethane	19.03	14.54	1.309 ok	1.309	1.249-1.369
Hexane	8.62	8.61	1.001 ok	1.001	0.941-1.061
2-Hexanone	13.01	14.54	0.895 ok	0.894	0.834-0.954
Iodomethane	6.74	8.61	0.783 ok	0.783	0.723-0.843
Isopropylbenzene	16.33	14.54	1.123 ok	1.123	1.063-1.183
Isopropyl Alcohol	6.37	8.61	0.740 ok	0.738	0.678-0.798
p-Isopropyltoluene	18.10	14.54	1.245 ok	1.245	1.185-1.305
Methylene chloride	6.87	8.61	0.798 ok	0.798	0.738-0.858
Methyl ethyl ketone	8.11	8.61	0.942 ok	0.941	0.881-1.001
Methyl Isobutyl Ketone	11.82	10.30	1.148 ok	1.148	1.088-1.208
Methyl Tert Butyl Ether	7.82	8.61	0.908 ok	0.908	0.848-0.968
Methylmethacrylate	11.13	10.30	1.081 ok	1.081	1.021-1.141
Naphthalene	20.35	14.54	1.400 ok	1.399	1.339-1.459
Nonane	15.90	14.54	1.094 ok	1.094	1.034-1.154
Octane	13.71	14.54	0.943 ok	0.942	0.882-1.002
Pentane	6.56	8.61	0.762 ok	0.762	0.702-0.822
n-Propylbenzene	16.91	14.54	1.163 ok	1.162	1.102-1.222
Propylene	4.91	8.61	0.570 ok	0.570	0.510-0.630
Styrene	15.57	14.54	1.071 ok	1.071	1.011-1.131
1,1,1-Trichloroethane	9.59	8.61	1.114 ok	1.113	1.053-1.173
1,1,1,2-Tetrachloroethane	14.57	14.54	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.68	14.54	1.078 ok	1.079	1.019-1.139
1,1,2-Trichloroethane	12.46	10.30	1.210 ok	1.210	1.150-1.270
1,2,4-Trichlorobenzene	20.23	14.54	1.391 ok	1.391	1.331-1.451
1,2,3-Trichloropropane	15.83	14.54	1.089 ok	1.088	1.028-1.148
1,2,4-Trimethylbenzene	17.62	14.54	1.212 ok	1.212	1.152-1.272
1,3,5-Trimethylbenzene	17.16	14.54	1.180 ok	1.180	1.120-1.240

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15 Reporting this level
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
2,2,4-Trimethylpentane	10.97	10.30	1.065 ok	1.066	1.006-1.126
Tertiary Butyl Alcohol	6.84	8.61	0.794 ok	0.793	0.733-0.853
Tetrachloroethylene	13.88	14.54	0.955 ok	0.955	0.895-1.015
Tetrahydrofuran	9.12	8.61	1.059 ok	1.057	0.997-1.117
Toluene	12.74	10.30	1.237 ok	1.237	1.177-1.297
Trichloroethylene	10.96	10.30	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.30	8.61	0.732 ok	0.731	0.671-0.791
Vinyl chloride	5.28	8.61	0.613 ok	0.613	0.553-0.673
Vinyl Acetate	7.87	8.61	0.914 ok	0.914	0.854-0.974
m,p-Xylene	15.17	14.54	1.043 ok	1.043	0.983-1.103
o-Xylene	15.68	14.54	1.078 ok	1.078	1.018-1.138
TVHC As Equiv Pentane	6.56	8.61	0.762 ok	0.761	0.701-0.821
TVHC As Equiv Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.61 ok	8.61	8.28-8.94	141430 ok	144432	86659-202205
1,4-Difluorobenzene	10.30 ok	10.30	9.97-10.63	736420 ok	737254	442352-1032156
Chlorobenzene-D5	14.54 ok	14.54	14.21-14.87	340904 ok	352412	211447-493377

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.17	8.62	0.716 ok	0.717	0.657-0.777
Acrolein	6.07	8.62	0.704 ok	0.705	0.645-0.765
Acrylonitrile	6.52	8.62	0.756 ok	0.756	0.696-0.816
Acetonitrile	5.98	8.62	0.694 ok	0.694	0.634-0.754
1,3-Butadiene	5.38	8.62	0.624 ok	0.625	0.565-0.685
Benzene	10.01	10.31	0.971 ok	0.971	0.911-1.031
Bromodichloromethane	10.94	10.31	1.061 ok	1.062	1.002-1.122
Bromoform	15.28	14.55	1.050 ok	1.050	0.990-1.110
Bromomethane	5.60	8.62	0.650 ok	0.650	0.590-0.710
Bromoethene	6.00	8.62	0.696 ok	0.696	0.636-0.756
n-Butane	5.42	8.62	0.629 ok	0.629	0.569-0.689
Benzyl Chloride	17.79	14.55	1.223 ok	1.223	1.163-1.283
n-Butylbenzene	18.59	14.55	1.278 ok	1.278	1.218-1.338
sec-Butylbenzene	17.93	14.55	1.232 ok	1.232	1.172-1.292
tert-Butylbenzene	17.62	14.55	1.211 ok	1.211	1.151-1.271
Carbon disulfide	7.14	8.62	0.828 ok	0.829	0.769-0.889
Chlorobenzene	14.60	14.55	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.88	8.62	0.566 ok	0.567	0.507-0.627
Chloroethane	5.73	8.62	0.665 ok	0.665	0.605-0.725
Chloroform	8.73	8.62	1.013 ok	1.012	0.952-1.072
Chloromethane	5.10	8.62	0.592 ok	0.592	0.532-0.652
3-Chloropropene	6.96	8.62	0.807 ok	0.808	0.748-0.868
2-Chlorotoluene	16.88	14.55	1.160 ok	1.160	1.100-1.220
Carbon tetrachloride	10.14	8.62	1.176 ok	1.176	1.116-1.236
Cyclohexane	10.25	10.31	0.994 ok	0.995	0.935-1.055
1,1-Dichloroethane	7.78	8.62	0.903 ok	0.903	0.843-0.963
1,1-Dichloroethylene	6.79	8.62	0.788 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.43	14.55	0.923 ok	0.923	0.863-0.983
1,2-Dichloroethane	9.37	8.62	1.087 ok	1.087	1.027-1.147
1,2-Dichloropropane	10.75	10.31	1.043 ok	1.044	0.984-1.104
1,4-Dioxane	10.98	10.31	1.065 ok	1.069	1.009-1.129
Dichlorodifluoromethane	4.97	8.62	0.577 ok	0.577	0.517-0.637
Dibromochloromethane	13.18	14.55	0.906 ok	0.906	0.846-0.966
trans-1,2-Dichloroethylene	7.61	8.62	0.883 ok	0.883	0.823-0.943
cis-1,2-Dichloroethylene	8.47	8.62	0.983 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.78	10.31	1.143 ok	1.143	1.083-1.203
m-Dichlorobenzene	17.80	14.55	1.223 ok	1.224	1.164-1.284
o-Dichlorobenzene	18.27	14.55	1.256 ok	1.256	1.196-1.316
p-Dichlorobenzene	17.88	14.55	1.229 ok	1.229	1.169-1.289
trans-1,3-Dichloropropene	12.29	10.31	1.192 ok	1.193	1.133-1.253

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	8.61	8.62	0.999	ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.45	10.31	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.38	8.62	1.088	ok	1.089	1.029-1.149
Ethanol	5.81	8.62	0.674	ok	0.675	0.615-0.735
Ethylbenzene	14.99	14.55	1.030	ok	1.030	0.970-1.090
Ethyl Acetate	8.63	8.62	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	17.07	14.55	1.173	ok	1.174	1.114-1.234
Freon 113	7.06	8.62	0.819	ok	0.820	0.760-0.880
Freon 114	5.18	8.62	0.601	ok	0.601	0.541-0.661
Freon 123	6.08	8.62	0.705	ok	0.706	0.646-0.766
Freon 123A	6.12	8.62	0.710	ok	0.711	0.651-0.771
Heptane	11.21	10.31	1.087	ok	1.088	1.028-1.148
Hexachlorobutadiene	20.74	14.55	1.425	ok	1.426	1.366-1.486
Hexachloroethane	19.04	14.55	1.309	ok	1.309	1.249-1.369
Hexane	8.62	8.62	1.000	ok	1.001	0.941-1.061
2-Hexanone	13.00	14.55	0.893	ok	0.894	0.834-0.954
Iodomethane	6.74	8.62	0.782	ok	0.783	0.723-0.843
Isopropylbenzene	16.34	14.55	1.123	ok	1.123	1.063-1.183
Isopropyl Alcohol	6.35	8.62	0.737	ok	0.738	0.678-0.798
p-Isopropyltoluene	18.11	14.55	1.245	ok	1.245	1.185-1.305
Methylene chloride	6.87	8.62	0.797	ok	0.798	0.738-0.858
Methyl ethyl ketone	8.10	8.62	0.940	ok	0.941	0.881-1.001
Methyl Isobutyl Ketone	11.81	10.31	1.145	ok	1.148	1.088-1.208
Methyl Tert Butyl Ether	7.82	8.62	0.907	ok	0.908	0.848-0.968
Methylmethacrylate	11.13	10.31	1.080	ok	1.081	1.021-1.141
Naphthalene	20.35	14.55	1.399	ok	1.399	1.339-1.459
Nonane	15.91	14.55	1.093	ok	1.094	1.034-1.154
Octane	13.71	14.55	0.942	ok	0.942	0.882-1.002
Pentane	6.56	8.62	0.761	ok	0.762	0.702-0.822
n-Propylbenzene	16.91	14.55	1.162	ok	1.162	1.102-1.222
Propylene	4.91	8.62	0.570	ok	0.570	0.510-0.630
Styrene	15.57	14.55	1.070	ok	1.071	1.011-1.131
1,1,1-Trichloroethane	9.59	8.62	1.113	ok	1.113	1.053-1.173
1,1,1,2-Tetrachloroethane	14.58	14.55	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.69	14.55	1.078	ok	1.079	1.019-1.139
1,1,2-Trichloroethane	12.47	10.31	1.210	ok	1.210	1.150-1.270
1,2,4-Trichlorobenzene	20.23	14.55	1.390	ok	1.391	1.331-1.451
1,2,3-Trichloropropane	15.83	14.55	1.088	ok	1.088	1.028-1.148
1,2,4-Trimethylbenzene	17.63	14.55	1.212	ok	1.212	1.152-1.272
1,3,5-Trimethylbenzene	17.16	14.55	1.179	ok	1.180	1.120-1.240

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
2,2,4-Trimethylpentane	10.98	10.31	1.065 ok	1.066	1.006-1.126
Tertiary Butyl Alcohol	6.81	8.62	0.790 ok	0.793	0.733-0.853
Tetrachloroethylene	13.89	14.55	0.955 ok	0.955	0.895-1.015
Tetrahydrofuran	9.09	8.62	1.055 ok	1.057	0.997-1.117
Toluene	12.74	10.31	1.236 ok	1.237	1.177-1.297
Trichloroethylene	10.97	10.31	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.30	8.62	0.731 ok	0.731	0.671-0.791
Vinyl chloride	5.28	8.62	0.613 ok	0.613	0.553-0.673
Vinyl Acetate	7.87	8.62	0.913 ok	0.914	0.854-0.974
m,p-Xylene	15.18	14.55	1.043 ok	1.043	0.983-1.103
o-Xylene	15.69	14.55	1.078 ok	1.078	1.018-1.138
TVHC As Equiv Pentane	6.56	8.62	0.761 ok	0.761	0.701-0.821
TVHC As Equiv Heptane	11.21	10.31	1.087 ok	1.088	1.028-1.148

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.62 ok	8.61	8.28-8.94	145063	ok 144432	86659-202205
1,4-Difluorobenzene	10.31 ok	10.30	9.97-10.63	734372	ok 737254	442352-1032156
Chlorobenzene-D5	14.55 ok	14.54	14.21-14.87	371606	ok 352412	211447-493377

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15 Reporting this level
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.17	8.61	0.717 ok	0.717	0.657-0.777
Acrolein	6.07	8.61	0.705 ok	0.705	0.645-0.765
Acrylonitrile	6.51	8.61	0.756 ok	0.756	0.696-0.816
Acetonitrile	5.98	8.61	0.695 ok	0.694	0.634-0.754
1,3-Butadiene	5.38	8.61	0.625 ok	0.625	0.565-0.685
Benzene	10.00	10.30	0.971 ok	0.971	0.911-1.031
Bromodichloromethane	10.93	10.30	1.061 ok	1.062	1.002-1.122
Bromoform	15.27	14.54	1.050 ok	1.050	0.990-1.110
Bromomethane	5.60	8.61	0.650 ok	0.650	0.590-0.710
Bromoethene	5.99	8.61	0.696 ok	0.696	0.636-0.756
n-Butane	5.42	8.61	0.630 ok	0.629	0.569-0.689
Benzyl Chloride	17.78	14.54	1.223 ok	1.223	1.163-1.283
n-Butylbenzene	18.59	14.54	1.279 ok	1.278	1.218-1.338
sec-Butylbenzene	17.92	14.54	1.232 ok	1.232	1.172-1.292
tert-Butylbenzene	17.61	14.54	1.211 ok	1.211	1.151-1.271
Carbon disulfide	7.14	8.61	0.829 ok	0.829	0.769-0.889
Chlorobenzene	14.59	14.54	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.89	8.61	0.568 ok	0.567	0.507-0.627
Chloroethane	5.72	8.61	0.664 ok	0.665	0.605-0.725
Chloroform	8.71	8.61	1.012 ok	1.012	0.952-1.072
Chloromethane	5.10	8.61	0.592 ok	0.592	0.532-0.652
3-Chloropropene	6.96	8.61	0.808 ok	0.808	0.748-0.868
2-Chlorotoluene	16.87	14.54	1.160 ok	1.160	1.100-1.220
Carbon tetrachloride	10.13	8.61	1.177 ok	1.176	1.116-1.236
Cyclohexane	10.24	10.30	0.994 ok	0.995	0.935-1.055
1,1-Dichloroethane	7.78	8.61	0.904 ok	0.903	0.843-0.963
1,1-Dichloroethylene	6.79	8.61	0.789 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.42	14.54	0.923 ok	0.923	0.863-0.983
1,2-Dichloroethane	9.36	8.61	1.087 ok	1.087	1.027-1.147
1,2-Dichloropropane	10.74	10.30	1.043 ok	1.044	0.984-1.104
1,4-Dioxane	10.99	10.30	1.067 ok	1.069	1.009-1.129
Dichlorodifluoromethane	4.97	8.61	0.577 ok	0.577	0.517-0.637
Dibromochloromethane	13.18	14.54	0.906 ok	0.906	0.846-0.966
trans-1,2-Dichloroethylene	7.60	8.61	0.883 ok	0.883	0.823-0.943
cis-1,2-Dichloroethylene	8.47	8.61	0.984 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.77	10.30	1.143 ok	1.143	1.083-1.203
m-Dichlorobenzene	17.80	14.54	1.224 ok	1.224	1.164-1.284
o-Dichlorobenzene	18.27	14.54	1.257 ok	1.256	1.196-1.316
p-Dichlorobenzene	17.87	14.54	1.229 ok	1.229	1.169-1.289
trans-1,3-Dichloropropene	12.28	10.30	1.192 ok	1.193	1.133-1.253

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15 Reporting this level
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	8.61	8.61	1.000 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.44	10.30	1.014 ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.38	8.61	1.089 ok	1.089	1.029-1.149
Ethanol	5.81	8.61	0.675 ok	0.675	0.615-0.735
Ethylbenzene	14.98	14.54	1.030 ok	1.030	0.970-1.090
Ethyl Acetate	8.63	8.61	1.002 ok	1.002	0.942-1.062
4-Ethyltoluene	17.07	14.54	1.174 ok	1.174	1.114-1.234
Freon 113	7.06	8.61	0.820 ok	0.820	0.760-0.880
Freon 114	5.18	8.61	0.602 ok	0.601	0.541-0.661
Freon 123	6.08	8.61	0.706 ok	0.706	0.646-0.766
Freon 123A	6.12	8.61	0.711 ok	0.711	0.651-0.771
Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148
Hexachlorobutadiene	20.74	14.54	1.426 ok	1.426	1.366-1.486
Hexachloroethane	19.03	14.54	1.309 ok	1.309	1.249-1.369
Hexane	8.62	8.61	1.001 ok	1.001	0.941-1.061
2-Hexanone	12.99	14.54	0.893 ok	0.894	0.834-0.954
Iodomethane	6.74	8.61	0.783 ok	0.783	0.723-0.843
Isopropylbenzene	16.33	14.54	1.123 ok	1.123	1.063-1.183
Isopropyl Alcohol	6.35	8.61	0.738 ok	0.738	0.678-0.798
p-Isopropyltoluene	18.10	14.54	1.245 ok	1.245	1.185-1.305
Methylene chloride	6.87	8.61	0.798 ok	0.798	0.738-0.858
Methyl ethyl ketone	8.10	8.61	0.941 ok	0.941	0.881-1.001
Methyl Isobutyl Ketone	11.81	10.30	1.147 ok	1.148	1.088-1.208
Methyl Tert Butyl Ether	7.82	8.61	0.908 ok	0.908	0.848-0.968
Methylmethacrylate	11.13	10.30	1.081 ok	1.081	1.021-1.141
Naphthalene	20.35	14.54	1.400 ok	1.399	1.339-1.459
Nonane	15.90	14.54	1.094 ok	1.094	1.034-1.154
Octane	13.70	14.54	0.942 ok	0.942	0.882-1.002
Pentane	6.56	8.61	0.762 ok	0.762	0.702-0.822
n-Propylbenzene	16.90	14.54	1.162 ok	1.162	1.102-1.222
Propylene	4.91	8.61	0.570 ok	0.570	0.510-0.630
Styrene	15.57	14.54	1.071 ok	1.071	1.011-1.131
1,1,1-Trichloroethane	9.59	8.61	1.114 ok	1.113	1.053-1.173
1,1,1,2-Tetrachloroethane	14.57	14.54	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.68	14.54	1.078 ok	1.079	1.019-1.139
1,1,2-Trichloroethane	12.46	10.30	1.210 ok	1.210	1.150-1.270
1,2,4-Trichlorobenzene	20.22	14.54	1.391 ok	1.391	1.331-1.451
1,2,3-Trichloropropane	15.82	14.54	1.088 ok	1.088	1.028-1.148
1,2,4-Trimethylbenzene	17.62	14.54	1.212 ok	1.212	1.152-1.272
1,3,5-Trimethylbenzene	17.16	14.54	1.180 ok	1.180	1.120-1.240

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
2,2,4-Trimethylpentane	10.97	10.30	1.065 ok	1.066	1.006-1.126
Tertiary Butyl Alcohol	6.81	8.61	0.791 ok	0.793	0.733-0.853
Tetrachloroethylene	13.88	14.54	0.955 ok	0.955	0.895-1.015
Tetrahydrofuran	9.09	8.61	1.056 ok	1.057	0.997-1.117
Toluene	12.74	10.30	1.237 ok	1.237	1.177-1.297
Trichloroethylene	10.96	10.30	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.30	8.61	0.732 ok	0.731	0.671-0.791
Vinyl chloride	5.28	8.61	0.613 ok	0.613	0.553-0.673
Vinyl Acetate	7.87	8.61	0.914 ok	0.914	0.854-0.974
m,p-Xylene	15.17	14.54	1.043 ok	1.043	0.983-1.103
o-Xylene	15.68	14.54	1.078 ok	1.078	1.018-1.138
TVHC As Equiv Pentane	6.56	8.61	0.762 ok	0.761	0.701-0.821
TVHC As Equiv Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.61 ok	8.61	8.28-8.94	144061	ok 144432	86659-202205
1,4-Difluorobenzene	10.30 ok	10.30	9.97-10.63	731584	ok 737254	442352-1032156
Chlorobenzene-D5	14.54 ok	14.54	14.21-14.87	347185	ok 352412	211447-493377

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15 Reporting this level
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetonitrile	5.98	8.61	0.695 ok	0.694	0.634-0.754
1,3-Butadiene	5.37	8.61	0.624 ok	0.625	0.565-0.685
Benzene	9.99	10.30	0.970 ok	0.971	0.911-1.031
Bromodichloromethane	10.93	10.30	1.061 ok	1.062	1.002-1.122
Bromoform	15.27	14.54	1.050 ok	1.050	0.990-1.110
Bromomethane	5.61	8.61	0.652 ok	0.650	0.590-0.710
Bromoethene	5.99	8.61	0.696 ok	0.696	0.636-0.756
Benzyl Chloride	17.78	14.54	1.223 ok	1.223	1.163-1.283
sec-Butylbenzene	17.92	14.54	1.232 ok	1.232	1.172-1.292
Carbon disulfide	7.14	8.61	0.829 ok	0.829	0.769-0.889
Chlorobenzene	14.58	14.54	1.003 ok	1.003	0.943-1.063
Chloroethane	5.73	8.61	0.666 ok	0.665	0.605-0.725
Chloroform	8.72	8.61	1.013 ok	1.012	0.952-1.072
3-Chloropropene	6.96	8.61	0.808 ok	0.808	0.748-0.868
2-Chlorotoluene	16.86	14.54	1.160 ok	1.160	1.100-1.220
Carbon tetrachloride	10.13	8.61	1.177 ok	1.176	1.116-1.236
Cyclohexane	10.24	10.30	0.994 ok	0.995	0.935-1.055
1,1-Dichloroethane	7.77	8.61	0.902 ok	0.903	0.843-0.963
1,2-Dibromoethane	13.41	14.54	0.922 ok	0.923	0.863-0.983
1,2-Dichloroethane	9.37	8.61	1.088 ok	1.087	1.027-1.147
1,2-Dichloropropane	10.75	10.30	1.044 ok	1.044	0.984-1.104
Dichlorodifluoromethane	4.97	8.61	0.577 ok	0.577	0.517-0.637
Dibromochloromethane	13.17	14.54	0.906 ok	0.906	0.846-0.966
trans-1,2-Dichloroethylene	7.60	8.61	0.883 ok	0.883	0.823-0.943
cis-1,2-Dichloroethylene	8.46	8.61	0.983 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.77	10.30	1.143 ok	1.143	1.083-1.203
m-Dichlorobenzene	17.80	14.54	1.224 ok	1.224	1.164-1.284
o-Dichlorobenzene	18.27	14.54	1.257 ok	1.256	1.196-1.316
p-Dichlorobenzene	17.88	14.54	1.230 ok	1.229	1.169-1.289
trans-1,3-Dichloropropene	12.28	10.30	1.192 ok	1.193	1.133-1.253
Di-Isopropyl ether	8.62	8.61	1.001 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.43	10.30	1.013 ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.38	8.61	1.089 ok	1.089	1.029-1.149
Ethylbenzene	14.98	14.54	1.030 ok	1.030	0.970-1.090
4-Ethyltoluene	17.07	14.54	1.174 ok	1.174	1.114-1.234
Freon 113	7.06	8.61	0.820 ok	0.820	0.760-0.880
Freon 114	5.17	8.61	0.600 ok	0.601	0.541-0.661
Freon 123	6.08	8.61	0.706 ok	0.706	0.646-0.766
Freon 123A	6.13	8.61	0.712 ok	0.711	0.651-0.771
Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15 Reporting this level
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Hexachlorobutadiene	20.75	14.54	1.427 ok	1.426	1.366-1.486
Hexane	8.62	8.61	1.001 ok	1.001	0.941-1.061
2-Hexanone	13.02	14.54	0.895 ok	0.894	0.834-0.954
Iodomethane	6.75	8.61	0.784 ok	0.783	0.723-0.843
Isopropylbenzene	16.33	14.54	1.123 ok	1.123	1.063-1.183
p-Isopropyltoluene	18.11	14.54	1.246 ok	1.245	1.185-1.305
Methyl ethyl ketone	8.12	8.61	0.943 ok	0.941	0.881-1.001
Methyl Isobutyl Ketone	11.84	10.30	1.150 ok	1.148	1.088-1.208
Methyl Tert Butyl Ether	7.84	8.61	0.911 ok	0.908	0.848-0.968
Methylmethacrylate	11.15	10.30	1.083 ok	1.081	1.021-1.141
Nonane	15.90	14.54	1.094 ok	1.094	1.034-1.154
Octane	13.70	14.54	0.942 ok	0.942	0.882-1.002
Pentane	6.57	8.61	0.763 ok	0.762	0.702-0.822
n-Propylbenzene	16.90	14.54	1.162 ok	1.162	1.102-1.222
Propylene	4.92	8.61	0.571 ok	0.570	0.510-0.630
Styrene	15.57	14.54	1.071 ok	1.071	1.011-1.131
1,1,1-Trichloroethane	9.59	8.61	1.114 ok	1.113	1.053-1.173
1,1,1,2-Tetrachloroethane	14.57	14.54	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.69	14.54	1.079 ok	1.079	1.019-1.139
1,1,2-Trichloroethane	12.46	10.30	1.210 ok	1.210	1.150-1.270
1,2,3-Trichloropropane	15.83	14.54	1.089 ok	1.088	1.028-1.148
1,2,4-Trimethylbenzene	17.62	14.54	1.212 ok	1.212	1.152-1.272
1,3,5-Trimethylbenzene	17.15	14.54	1.180 ok	1.180	1.120-1.240
2,2,4-Trimethylpentane	10.96	10.30	1.064 ok	1.066	1.006-1.126
Tertiary Butyl Alcohol	6.87	8.61	0.798 ok	0.793	0.733-0.853
Tetrachloroethylene	13.88	14.54	0.955 ok	0.955	0.895-1.015
Tetrahydrofuran	9.14	8.61	1.062 ok	1.057	0.997-1.117
Toluene	12.74	10.30	1.237 ok	1.237	1.177-1.297
Trichloroethylene	10.96	10.30	1.064 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.31	8.61	0.733 ok	0.731	0.671-0.791
Vinyl chloride	5.28	8.61	0.613 ok	0.613	0.553-0.673
m,p-Xylene	15.16	14.54	1.043 ok	1.043	0.983-1.103
o-Xylene	15.68	14.54	1.078 ok	1.078	1.018-1.138
TVHC As Equiv Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.61 ok	8.61	8.28-8.94	141897	ok 144432	86659-202205
1,4-Difluorobenzene	10.30 ok	10.30	9.97-10.63	729611	ok 737254	442352-1032156

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Chlorobenzene-D5	14.54 ok	14.54	14.21-14.87	330760 ok	352412	211447-493377

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.17	8.62	0.716 ok	0.717	0.657-0.777
Acrolein	6.07	8.62	0.704 ok	0.705	0.645-0.765
Acrylonitrile	6.51	8.62	0.755 ok	0.756	0.696-0.816
Acetonitrile	5.97	8.62	0.693 ok	0.694	0.634-0.754
1,3-Butadiene	5.37	8.62	0.623 ok	0.625	0.565-0.685
Benzene	10.01	10.30	0.972 ok	0.971	0.911-1.031
Bromodichloromethane	10.94	10.30	1.062 ok	1.062	1.002-1.122
Bromoform	15.29	14.55	1.051 ok	1.050	0.990-1.110
Bromomethane	5.59	8.62	0.648 ok	0.650	0.590-0.710
Bromoethene	5.98	8.62	0.694 ok	0.696	0.636-0.756
n-Butane	5.42	8.62	0.629 ok	0.629	0.569-0.689
Benzyl Chloride	17.79	14.55	1.223 ok	1.223	1.163-1.283
n-Butylbenzene	18.60	14.55	1.278 ok	1.278	1.218-1.338
sec-Butylbenzene	17.93	14.55	1.232 ok	1.232	1.172-1.292
tert-Butylbenzene	17.62	14.55	1.211 ok	1.211	1.151-1.271
Carbon disulfide	7.13	8.62	0.827 ok	0.829	0.769-0.889
Chlorobenzene	14.60	14.55	1.003 ok	1.003	0.943-1.063
Chlorodifluoromethane	4.87	8.62	0.565 ok	0.567	0.507-0.627
Chloroethane	5.71	8.62	0.662 ok	0.665	0.605-0.725
Chloroform	8.72	8.62	1.012 ok	1.012	0.952-1.072
Chloromethane	5.10	8.62	0.592 ok	0.592	0.532-0.652
3-Chloropropene	6.96	8.62	0.807 ok	0.808	0.748-0.868
2-Chlorotoluene	16.88	14.55	1.160 ok	1.160	1.100-1.220
Carbon tetrachloride	10.14	8.62	1.176 ok	1.176	1.116-1.236
Cyclohexane	10.25	10.30	0.995 ok	0.995	0.935-1.055
1,1-Dichloroethane	7.77	8.62	0.901 ok	0.903	0.843-0.963
1,1-Dichloroethylene	6.78	8.62	0.787 ok	0.788	0.728-0.848
1,2-Dibromoethane	13.43	14.55	0.923 ok	0.923	0.863-0.983
1,2-Dichloroethane	9.37	8.62	1.087 ok	1.087	1.027-1.147
1,2-Dichloropropane	10.76	10.30	1.045 ok	1.044	0.984-1.104
1,4-Dioxane	10.99	10.30	1.067 ok	1.069	1.009-1.129
Dichlorodifluoromethane	4.96	8.62	0.575 ok	0.577	0.517-0.637
Dibromochloromethane	13.18	14.55	0.906 ok	0.906	0.846-0.966
trans-1,2-Dichloroethylene	7.60	8.62	0.882 ok	0.883	0.823-0.943
cis-1,2-Dichloroethylene	8.47	8.62	0.983 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.78	10.30	1.144 ok	1.143	1.083-1.203
m-Dichlorobenzene	17.81	14.55	1.224 ok	1.224	1.164-1.284
o-Dichlorobenzene	18.27	14.55	1.256 ok	1.256	1.196-1.316
p-Dichlorobenzene	17.88	14.55	1.229 ok	1.229	1.169-1.289
trans-1,3-Dichloropropene	12.29	10.30	1.193 ok	1.193	1.133-1.253

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Di-Isopropyl ether	8.61	8.62	0.999	ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.45	10.30	1.015	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.38	8.62	1.088	ok	1.089	1.029-1.149
Ethanol	5.81	8.62	0.674	ok	0.675	0.615-0.735
Ethylbenzene	14.99	14.55	1.030	ok	1.030	0.970-1.090
Ethyl Acetate	8.63	8.62	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	17.08	14.55	1.174	ok	1.174	1.114-1.234
Freon 113	7.06	8.62	0.819	ok	0.820	0.760-0.880
Freon 114	5.17	8.62	0.600	ok	0.601	0.541-0.661
Freon 123	6.07	8.62	0.704	ok	0.706	0.646-0.766
Freon 123A	6.12	8.62	0.710	ok	0.711	0.651-0.771
Heptane	11.21	10.30	1.088	ok	1.088	1.028-1.148
Hexachlorobutadiene	20.74	14.55	1.425	ok	1.426	1.366-1.486
Hexachloroethane	19.03	14.55	1.308	ok	1.309	1.249-1.369
Hexane	8.62	8.62	1.000	ok	1.001	0.941-1.061
2-Hexanone	13.01	14.55	0.894	ok	0.894	0.834-0.954
Iodomethane	6.74	8.62	0.782	ok	0.783	0.723-0.843
Isopropylbenzene	16.35	14.55	1.124	ok	1.123	1.063-1.183
Isopropyl Alcohol	6.35	8.62	0.737	ok	0.738	0.678-0.798
p-Isopropyltoluene	18.11	14.55	1.245	ok	1.245	1.185-1.305
Methylene chloride	6.87	8.62	0.797	ok	0.798	0.738-0.858
Methyl ethyl ketone	8.10	8.62	0.940	ok	0.941	0.881-1.001
Methyl Isobutyl Ketone	11.82	10.30	1.148	ok	1.148	1.088-1.208
Methyl Tert Butyl Ether	7.81	8.62	0.906	ok	0.908	0.848-0.968
Methylmethacrylate	11.14	10.30	1.082	ok	1.081	1.021-1.141
Naphthalene	20.35	14.55	1.399	ok	1.399	1.339-1.459
Nonane	15.91	14.55	1.093	ok	1.094	1.034-1.154
Octane	13.71	14.55	0.942	ok	0.942	0.882-1.002
Pentane	6.55	8.62	0.760	ok	0.762	0.702-0.822
n-Propylbenzene	16.91	14.55	1.162	ok	1.162	1.102-1.222
Propylene	4.90	8.62	0.568	ok	0.570	0.510-0.630
Styrene	15.58	14.55	1.071	ok	1.071	1.011-1.131
1,1,1-Trichloroethane	9.59	8.62	1.113	ok	1.113	1.053-1.173
1,1,1,2-Tetrachloroethane	14.58	14.55	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.69	14.55	1.078	ok	1.079	1.019-1.139
1,1,2-Trichloroethane	12.48	10.30	1.212	ok	1.210	1.150-1.270
1,2,4-Trichlorobenzene	20.23	14.55	1.390	ok	1.391	1.331-1.451
1,2,3-Trichloropropane	15.84	14.55	1.089	ok	1.088	1.028-1.148
1,2,4-Trimethylbenzene	17.63	14.55	1.212	ok	1.212	1.152-1.272
1,3,5-Trimethylbenzene	17.16	14.55	1.179	ok	1.180	1.120-1.240

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
2,2,4-Trimethylpentane	10.98	10.30	1.066 ok	1.066	1.006-1.126
Tertiary Butyl Alcohol	6.81	8.62	0.790 ok	0.793	0.733-0.853
Tetrachloroethylene	13.89	14.55	0.955 ok	0.955	0.895-1.015
Tetrahydrofuran	9.09	8.62	1.055 ok	1.057	0.997-1.117
Toluene	12.74	10.30	1.237 ok	1.237	1.177-1.297
Trichloroethylene	10.97	10.30	1.065 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.62	0.730 ok	0.731	0.671-0.791
Vinyl chloride	5.27	8.62	0.611 ok	0.613	0.553-0.673
Vinyl Acetate	7.87	8.62	0.913 ok	0.914	0.854-0.974
m,p-Xylene	15.19	14.55	1.044 ok	1.043	0.983-1.103
o-Xylene	15.69	14.55	1.078 ok	1.078	1.018-1.138
TVHC As Equiv Pentane	6.55	8.62	0.760 ok	0.761	0.701-0.821
TVHC As Equiv Heptane	11.21	10.30	1.088 ok	1.088	1.028-1.148

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.62 ok	8.61	8.28-8.94	144315	ok 144432	86659-202205
1,4-Difluorobenzene	10.30 ok	10.30	9.97-10.63	730116	ok 737254	442352-1032156
Chlorobenzene-D5	14.55 ok	14.54	14.21-14.87	384708	ok 352412	211447-493377

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.18	8.61	0.718	ok 0.717	0.657-0.777
Acrolein	6.08	8.61	0.706	ok 0.705	0.645-0.765
Acrylonitrile	6.51	8.61	0.756	ok 0.756	0.696-0.816
Acetonitrile	5.98	8.61	0.695	ok 0.694	0.634-0.754
1,3-Butadiene	5.39	8.61	0.626	ok 0.625	0.565-0.685
Benzene	10.00	10.29	0.972	ok 0.971	0.911-1.031
Bromodichloromethane	10.93	10.29	1.062	ok 1.062	1.002-1.122
Bromoform	15.27	14.54	1.050	ok 1.050	0.990-1.110
Bromomethane	5.60	8.61	0.650	ok 0.650	0.590-0.710
Bromoethene	5.99	8.61	0.696	ok 0.696	0.636-0.756
n-Butane	5.42	8.61	0.630	ok 0.629	0.569-0.689
Benzyl Chloride	17.78	14.54	1.223	ok 1.223	1.163-1.283
n-Butylbenzene	18.58	14.54	1.278	ok 1.278	1.218-1.338
sec-Butylbenzene	17.92	14.54	1.232	ok 1.232	1.172-1.292
tert-Butylbenzene	17.61	14.54	1.211	ok 1.211	1.151-1.271
Carbon disulfide	7.15	8.61	0.830	ok 0.829	0.769-0.889
Chlorobenzene	14.59	14.54	1.003	ok 1.003	0.943-1.063
Chlorodifluoromethane	4.88	8.61	0.567	ok 0.567	0.507-0.627
Chloroethane	5.72	8.61	0.664	ok 0.665	0.605-0.725
Chloroform	8.71	8.61	1.012	ok 1.012	0.952-1.072
Chloromethane	5.11	8.61	0.593	ok 0.592	0.532-0.652
3-Chloropropene	6.96	8.61	0.808	ok 0.808	0.748-0.868
2-Chlorotoluene	16.87	14.54	1.160	ok 1.160	1.100-1.220
Carbon tetrachloride	10.13	8.61	1.177	ok 1.176	1.116-1.236
Cyclohexane	10.24	10.29	0.995	ok 0.995	0.935-1.055
1,1-Dichloroethane	7.77	8.61	0.902	ok 0.903	0.843-0.963
1,1-Dichloroethylene	6.79	8.61	0.789	ok 0.788	0.728-0.848
1,2-Dibromoethane	13.41	14.54	0.922	ok 0.923	0.863-0.983
1,2-Dichloroethane	9.36	8.61	1.087	ok 1.087	1.027-1.147
1,2-Dichloropropane	10.74	10.29	1.044	ok 1.044	0.984-1.104
1,4-Dioxane	11.06	10.29	1.075	ok 1.069	1.009-1.129
Dichlorodifluoromethane	4.96	8.61	0.576	ok 0.577	0.517-0.637
Dibromochloromethane	13.17	14.54	0.906	ok 0.906	0.846-0.966
trans-1,2-Dichloroethylene	7.61	8.61	0.884	ok 0.883	0.823-0.943
cis-1,2-Dichloroethylene	8.47	8.61	0.984	ok 0.983	0.923-1.043
cis-1,3-Dichloropropene	11.77	10.29	1.144	ok 1.143	1.083-1.203
m-Dichlorobenzene	17.80	14.54	1.224	ok 1.224	1.164-1.284
o-Dichlorobenzene	18.26	14.54	1.256	ok 1.256	1.196-1.316
p-Dichlorobenzene	17.88	14.54	1.230	ok 1.229	1.169-1.289
trans-1,3-Dichloropropene	12.28	10.29	1.193	ok 1.193	1.133-1.253

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Di-Isopropyl ether	8.62	8.61	1.001 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.43	10.29	1.014 ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.38	8.61	1.089 ok	1.089	1.029-1.149
Ethylbenzene	14.98	14.54	1.030 ok	1.030	0.970-1.090
Ethyl Acetate	8.64	8.61	1.003 ok	1.002	0.942-1.062
4-Ethyltoluene	17.07	14.54	1.174 ok	1.174	1.114-1.234
Freon 113	7.06	8.61	0.820 ok	0.820	0.760-0.880
Freon 114	5.18	8.61	0.602 ok	0.601	0.541-0.661
Freon 123	6.08	8.61	0.706 ok	0.706	0.646-0.766
Freon 123A	6.12	8.61	0.711 ok	0.711	0.651-0.771
Heptane	11.21	10.29	1.089 ok	1.088	1.028-1.148
Hexachlorobutadiene	20.74	14.54	1.426 ok	1.426	1.366-1.486
Hexachloroethane	19.03	14.54	1.309 ok	1.309	1.249-1.369
Hexane	8.62	8.61	1.001 ok	1.001	0.941-1.061
2-Hexanone	13.01	14.54	0.895 ok	0.894	0.834-0.954
Iodomethane	6.74	8.61	0.783 ok	0.783	0.723-0.843
Isopropylbenzene	16.33	14.54	1.123 ok	1.123	1.063-1.183
Isopropyl Alcohol	6.37	8.61	0.740 ok	0.738	0.678-0.798
p-Isopropyltoluene	18.10	14.54	1.245 ok	1.245	1.185-1.305
Methylene chloride	6.88	8.61	0.799 ok	0.798	0.738-0.858
Methyl ethyl ketone	8.12	8.61	0.943 ok	0.941	0.881-1.001
Methyl Isobutyl Ketone	11.83	10.29	1.150 ok	1.148	1.088-1.208
Methyl Tert Butyl Ether	7.83	8.61	0.909 ok	0.908	0.848-0.968
Methylmethacrylate	11.13	10.29	1.082 ok	1.081	1.021-1.141
Naphthalene	20.36	14.54	1.400 ok	1.399	1.339-1.459
Nonane	15.90	14.54	1.094 ok	1.094	1.034-1.154
Octane	13.70	14.54	0.942 ok	0.942	0.882-1.002
Pentane	6.56	8.61	0.762 ok	0.762	0.702-0.822
n-Propylbenzene	16.90	14.54	1.162 ok	1.162	1.102-1.222
Propylene	4.91	8.61	0.570 ok	0.570	0.510-0.630
Styrene	15.56	14.54	1.070 ok	1.071	1.011-1.131
1,1,1-Trichloroethane	9.59	8.61	1.114 ok	1.113	1.053-1.173
1,1,1,2-Tetrachloroethane	14.57	14.54	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.69	14.54	1.079 ok	1.079	1.019-1.139
1,1,2-Trichloroethane	12.46	10.29	1.211 ok	1.210	1.150-1.270
1,2,4-Trichlorobenzene	20.23	14.54	1.391 ok	1.391	1.331-1.451
1,2,3-Trichloropropane	15.83	14.54	1.089 ok	1.088	1.028-1.148
1,2,4-Trimethylbenzene	17.61	14.54	1.211 ok	1.212	1.152-1.272
1,3,5-Trimethylbenzene	17.15	14.54	1.180 ok	1.180	1.120-1.240
2,2,4-Trimethylpentane	10.97	10.29	1.066 ok	1.066	1.006-1.126

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Tertiary Butyl Alcohol	6.85	8.61	0.796 ok	0.793	0.733-0.853
Tetrachloroethylene	13.88	14.54	0.955 ok	0.955	0.895-1.015
Tetrahydrofuran	9.12	8.61	1.059 ok	1.057	0.997-1.117
Toluene	12.74	10.29	1.238 ok	1.237	1.177-1.297
Trichloroethylene	10.96	10.29	1.065 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.30	8.61	0.732 ok	0.731	0.671-0.791
Vinyl chloride	5.29	8.61	0.614 ok	0.613	0.553-0.673
Vinyl Acetate	7.88	8.61	0.915 ok	0.914	0.854-0.974
m,p-Xylene	15.17	14.54	1.043 ok	1.043	0.983-1.103
o-Xylene	15.68	14.54	1.078 ok	1.078	1.018-1.138
TVHC As Equiv Pentane	6.56	8.61	0.762 ok	0.761	0.701-0.821
TVHC As Equiv Heptane	11.21	10.29	1.089 ok	1.088	1.028-1.148

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.61 ok	8.61	8.28-8.94	150155	ok 144432	86659-202205
1,4-Difluorobenzene	10.29 ok	10.30	9.97-10.63	752387	ok 737254	442352-1032156
Chlorobenzene-D5	14.54 ok	14.54	14.21-14.87	344093	ok 352412	211447-493377

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acrylonitrile	6.52	8.61	0.757 ok	0.756	0.696-0.816
Acetonitrile	5.98	8.61	0.695 ok	0.694	0.634-0.754
1,3-Butadiene	5.39	8.61	0.626 ok	0.625	0.565-0.685
Benzene	10.00	10.29	0.972 ok	0.971	0.911-1.031
Bromodichloromethane	10.93	10.29	1.062 ok	1.062	1.002-1.122
Bromoform	15.27	14.54	1.050 ok	1.050	0.990-1.110
Bromomethane	5.60	8.61	0.650 ok	0.650	0.590-0.710
Bromoethene	6.00	8.61	0.697 ok	0.696	0.636-0.756
Benzyl Chloride	17.78	14.54	1.223 ok	1.223	1.163-1.283
sec-Butylbenzene	17.92	14.54	1.232 ok	1.232	1.172-1.292
tert-Butylbenzene	17.61	14.54	1.211 ok	1.211	1.151-1.271
Carbon disulfide	7.15	8.61	0.830 ok	0.829	0.769-0.889
Chlorobenzene	14.59	14.54	1.003 ok	1.003	0.943-1.063
Chloroethane	5.73	8.61	0.666 ok	0.665	0.605-0.725
Chloroform	8.71	8.61	1.012 ok	1.012	0.952-1.072
3-Chloropropene	6.97	8.61	0.810 ok	0.808	0.748-0.868
2-Chlorotoluene	16.87	14.54	1.160 ok	1.160	1.100-1.220
Carbon tetrachloride	10.13	8.61	1.177 ok	1.176	1.116-1.236
Cyclohexane	10.24	10.29	0.995 ok	0.995	0.935-1.055
1,1-Dichloroethane	7.78	8.61	0.904 ok	0.903	0.843-0.963
1,2-Dibromoethane	13.42	14.54	0.923 ok	0.923	0.863-0.983
1,2-Dichloroethane	9.35	8.61	1.086 ok	1.087	1.027-1.147
1,2-Dichloropropane	10.74	10.29	1.044 ok	1.044	0.984-1.104
Dichlorodifluoromethane	4.97	8.61	0.577 ok	0.577	0.517-0.637
Dibromochloromethane	13.17	14.54	0.906 ok	0.906	0.846-0.966
trans-1,2-Dichloroethylene	7.61	8.61	0.884 ok	0.883	0.823-0.943
cis-1,2-Dichloroethylene	8.46	8.61	0.983 ok	0.983	0.923-1.043
cis-1,3-Dichloropropene	11.77	10.29	1.144 ok	1.143	1.083-1.203
m-Dichlorobenzene	17.79	14.54	1.224 ok	1.224	1.164-1.284
o-Dichlorobenzene	18.27	14.54	1.257 ok	1.256	1.196-1.316
p-Dichlorobenzene	17.88	14.54	1.230 ok	1.229	1.169-1.289
trans-1,3-Dichloropropene	12.28	10.29	1.193 ok	1.193	1.133-1.253
Di-Isopropyl ether	8.62	8.61	1.001 ok	1.000	0.940-1.060
2,3-Dimethylpentane	10.45	10.29	1.016 ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.38	8.61	1.089 ok	1.089	1.029-1.149
Ethylbenzene	14.98	14.54	1.030 ok	1.030	0.970-1.090
Ethyl Acetate	8.63	8.61	1.002 ok	1.002	0.942-1.062
4-Ethyltoluene	17.07	14.54	1.174 ok	1.174	1.114-1.234
Freon 113	7.06	8.61	0.820 ok	0.820	0.760-0.880
Freon 114	5.18	8.61	0.602 ok	0.601	0.541-0.661

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Freon 123	6.09	8.61	0.707 ok	0.706	0.646-0.766
Freon 123A	6.12	8.61	0.711 ok	0.711	0.651-0.771
Heptane	11.21	10.29	1.089 ok	1.088	1.028-1.148
Hexachlorobutadiene	20.75	14.54	1.427 ok	1.426	1.366-1.486
Hexachloroethane	19.03	14.54	1.309 ok	1.309	1.249-1.369
Hexane	8.62	8.61	1.001 ok	1.001	0.941-1.061
2-Hexanone	13.02	14.54	0.895 ok	0.894	0.834-0.954
Iodomethane	6.74	8.61	0.783 ok	0.783	0.723-0.843
Isopropylbenzene	16.33	14.54	1.123 ok	1.123	1.063-1.183
p-Isopropyltoluene	18.10	14.54	1.245 ok	1.245	1.185-1.305
Methyl ethyl ketone	8.12	8.61	0.943 ok	0.941	0.881-1.001
Methyl Isobutyl Ketone	11.84	10.29	1.151 ok	1.148	1.088-1.208
Methyl Tert Butyl Ether	7.83	8.61	0.909 ok	0.908	0.848-0.968
Methylmethacrylate	11.14	10.29	1.083 ok	1.081	1.021-1.141
Nonane	15.90	14.54	1.094 ok	1.094	1.034-1.154
Octane	13.70	14.54	0.942 ok	0.942	0.882-1.002
Pentane	6.56	8.61	0.762 ok	0.762	0.702-0.822
n-Propylbenzene	16.90	14.54	1.162 ok	1.162	1.102-1.222
Propylene	4.92	8.61	0.571 ok	0.570	0.510-0.630
Styrene	15.57	14.54	1.071 ok	1.071	1.011-1.131
1,1,1-Trichloroethane	9.59	8.61	1.114 ok	1.113	1.053-1.173
1,1,1,2-Tetrachloroethane	14.57	14.54	1.002 ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	15.68	14.54	1.078 ok	1.079	1.019-1.139
1,1,2-Trichloroethane	12.47	10.29	1.212 ok	1.210	1.150-1.270
1,2,4-Trichlorobenzene	20.23	14.54	1.391 ok	1.391	1.331-1.451
1,2,3-Trichloropropane	15.82	14.54	1.088 ok	1.088	1.028-1.148
1,2,4-Trimethylbenzene	17.61	14.54	1.211 ok	1.212	1.152-1.272
1,3,5-Trimethylbenzene	17.16	14.54	1.180 ok	1.180	1.120-1.240
2,2,4-Trimethylpentane	10.98	10.29	1.067 ok	1.066	1.006-1.126
Tertiary Butyl Alcohol	6.85	8.61	0.796 ok	0.793	0.733-0.853
Tetrachloroethylene	13.88	14.54	0.955 ok	0.955	0.895-1.015
Tetrahydrofuran	9.13	8.61	1.060 ok	1.057	0.997-1.117
Toluene	12.74	10.29	1.238 ok	1.237	1.177-1.297
Trichloroethylene	10.96	10.29	1.065 ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.61	0.731 ok	0.731	0.671-0.791
Vinyl chloride	5.28	8.61	0.613 ok	0.613	0.553-0.673
m,p-Xylene	15.16	14.54	1.043 ok	1.043	0.983-1.103
o-Xylene	15.68	14.54	1.078 ok	1.078	1.018-1.138
TVHC As Equiv Pentane	6.56	8.61	0.762 ok	0.761	0.701-0.821
TVHC As Equiv Heptane	11.21	10.29	1.089 ok	1.088	1.028-1.148

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JA81330

Account: RAVIV TRC

Project: Lockheed Electronics Co, Watchung, NJ

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
VW1322-ICC1322	W32352.D	06/21/11 17:20	YMH	10	GCMSW	TO-15
VW1322-IC1322	W32353.D	06/21/11 18:00	YMH	0.5	GCMSW	TO-15
VW1322-IC1322	W32356.D	06/21/11 20:00	YMH	20	GCMSW	TO-15
VW1322-IC1322	W32357.D	06/21/11 20:40	YMH	5.0	GCMSW	TO-15
VW1322-IC1322	W32359.D	06/21/11 22:00	YMH	0.04	GCMSW	TO-15
VW1322-IC1322	W32360.D	06/21/11 22:40	YMH	40	GCMSW	TO-15
VW1322-IC1322	W32364.D	06/22/11 09:56	YMH	0.2	GCMSW	TO-15
VW1322-IC1322	W32365.D	06/22/11 10:36	YMH	0.1	GCMSW	TO-15
						Reporting this level

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.61 ok	8.61	8.28-8.94	144028 ok	144432	86659-202205
1,4-Difluorobenzene	10.29 ok	10.30	9.97-10.63	740621 ok	737254	442352-1032156
Chlorobenzene-D5	14.54 ok	14.54	14.21-14.87	336405 ok	352412	211447-493377

Volatile Surrogate Recovery Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JA81330-1	W32816.D	99.0
JA81330-1	W32807.D	101.0
JA81330-2	W32817.D	97.0
JA81330-2	W32808.D	100.0
JA81330-3	W32818.D	94.0
JA81330-3	W32809.D	103.0
JA81330-4	W32819.D	93.0
JA81330-4	W32810.D	105.0
JA81330-5	W32833.D	90.0
JA81330-5	W32811.D	105.0
JA81330-6	W32834.D	89.0
JA81330-6	W32813.D	101.0
JA81330-7	W32835.D	90.0
JA81330-7	W32814.D	97.0
JA81330-8	W32836.D	92.0
JA81330-8	W32815.D	100.0
JA81054-3DUP	W32841.D	93.0
JA81330-5DUP	W32812.D	105.0
V3W910-SCC	3W23024.D	81.0
VW1324-SCC	W32412.D	92.0
VW1341-BS	W32801.D	93.0
VW1341-BSD	W32802.D	94.0
VW1341-MB	W32803.D	89.0
VW1342-BS	W32830.D	92.0
VW1342-BSD	W32831.D	92.0
VW1342-MB	W32832.D	89.0
V3W910-BS	3W23019.D	99.0
V3W910-BSD	3W23020.D	100.0
V3W910-MB	3W23021.D	95.0
VW1324-BS	W32387.D	104.0
VW1324-BSD	W32388.D	104.0
VW1324-MB	W32389.D	94.0

Surrogate Compounds **Recovery Limits**

S1 = 4-Bromofluorobenzene 65-128%

Initial Calibration Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W886-ICC886
Lab FileID: 3W22419.D

Response Factor Report MS3W											
Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)											
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um											
Last Update : Mon May 16 16:34:23 2011											
Response via : Initial Calibration											
Calibration Files											
0.04=3W22422.D 0.1 =3W22423.D 0.2 =3W22421.D 0.5 =3W22425.D											
5 =3W22416.D 10 =3W22419.D 20 =3W22418.D 40 =3W22424.D											
1 =3W22420.D =											
Compound											
	0.04	0.1	0.2	0.5	5	10	20	40	1	Avg	%RSD

1) I BROMOCHLOROMETHANE	-----ISTD-----										
2) FREON 115										0.000	-1.00
3) FREON 152A										0.000	-1.00
4) CHLORODIFLUOROMETHANE										0.427 0.476 0.448 0.436 0.349 0.343 0.329 0.450	0.407 14.07
5) DICHLORODIFLUOROMETHANE										4.152 3.826 4.107 3.998 4.181 3.321 3.213 2.996 3.980	3.752 12.05
6) PROPYLENE										2.783 1.866 1.602 1.294 1.250 1.180 1.675	1.664 33.27
7) FREON 114										4.171 3.889 4.501 4.510 4.646 3.780 3.625 3.314 4.535	4.108 11.59
8) CHLOROMETHANE										2.351 1.740 1.855 1.657 1.704 1.380 1.373 1.347 1.708	1.680 18.60
9) VINYL CHLORIDE										1.305 1.552 1.687 1.708 1.849 1.544 1.497 1.428 1.808	1.598 11.22
10) 1,3-BUTADIENE										1.186 1.068 1.260 1.242 1.392 1.178 1.135 1.079 1.318	1.207 8.93
11) n-BUTANE										3.704 3.434 2.926 2.911 2.393 2.297 2.154 2.974	2.849 19.20
12) BROMOMETHANE										1.653 1.409 1.543 1.567 1.636 1.373 1.331 1.254 1.531	1.477 9.50
13) CHLOROETHANE										0.555 0.725 0.812 0.818 0.962 0.808 0.789 0.745 0.889	0.789 14.33
14) DICHLOROFLUOROMETHANE										3.769 3.033 3.519 3.443 3.740 3.105 3.000 2.801 3.575	3.332 10.59
15) ACETONITRILE										1.805 1.271 1.272 1.124 1.230 1.211 1.305	1.317 16.95
16) FREON 123										2.399 3.063 3.081 3.134 3.796 3.179 3.067 2.837 3.279	3.093 11.91
17) FREON 123A										1.235 1.371 1.655 1.720 2.095 1.726 1.691 1.588 1.762	1.649 14.80
18) TRICHLOROFLUOROMETHANE										3.947 3.247 3.643 3.584 3.931 3.218 3.131 2.894 3.812	3.490 10.90
19) ISOPROPYL ALCOHOL										2.799 2.371 2.507 2.165 2.178 2.235 2.813	2.438 11.40
20) ACETONE										0.525 0.770 0.561 0.558 0.498 0.568 0.582 0.639	0.588 14.38
21) PENTANE										2.564 2.344 2.155 1.937 2.014 1.680 1.603 1.498 1.960	1.973 17.66
22) TVHC as EQUIV PENTANE										0.702 1.077 1.148 0.978 0.970 0.918 1.038	0.976 E1 14.62
23) IODOMETHANE											

Initial Calibration Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W886-ICC886
Lab FileID: 3W22419.D

Page 2 of 4

		3.418	3.300	3.888	3.796	4.370	3.584	3.489	3.269	3.990	3.678	9.88
24)	1,1-DICHLOROETHYLENE											
		1.219	1.218	1.517	1.445	1.599	1.293	1.285	1.201	1.513	1.365	11.22
25)	CARBON DISULFIDE											
		4.036	3.588	3.902	3.810	4.203	3.418	3.351	3.129	4.000	3.715	9.73
26)	ETHANOL											
				0.880	0.652	0.553	0.571	0.587	0.927		0.695	23.80
27)	BROMOETHENE											
		1.151	1.241	1.543	1.409	1.629	1.371	1.319	1.253	1.510	1.381	11.41
28)	ACRYLONITRILE											
		0.416	0.686	0.704	0.888	0.814	0.878	0.859	0.765		0.751	20.71
29)	METHYLENE CHLORIDE											
		1.966	1.577	1.283	1.503	1.233	1.198	1.126	1.457		1.418	19.23
30)	3-CHLOROPROPENE											
		0.466	0.490	0.532	0.752	0.628	0.628	0.598	0.632		0.591	15.65
31)	FREON 113											
		2.079	2.097	2.442	2.460	2.680	2.152	2.109	1.968	2.459	2.272	10.64
32)	TRANS-1,2-DICHLOROETHYLENE											
		1.086	1.052	1.297	1.312	1.541	1.268	1.263	1.212	1.386	1.269	11.63
33)	TERTIARY BUTYL ALCOHOL											
		1.979	2.024	2.256	2.390	2.906	2.479	2.441	2.428	2.783	2.410	12.72
34)	METHYL TERTIARY BUTYL ETHER											
		2.904	2.666	2.797	3.013	2.973	2.510	2.999	3.102	3.081	2.894	6.90
35)	TETRAHYDROFURAN											
		0.354	0.481	0.548	0.463	0.561	0.593	0.516			0.502	15.82
36)	HEXANE											
		2.116	2.141	2.441	2.309	2.627	2.113	2.099	1.995	2.387	2.248	9.13
37)	VINYL ACETATE											
		0.074	0.181	0.273	0.245	0.281	0.282	0.210			0.221	34.06
38)	1,1-DICHLOROETHANE											
		2.162	2.133	2.352	2.374	3.046	2.466	2.459	2.325	2.489	2.423	10.96
39)	METHYL ETHYL KETONE											
		0.299	0.473	0.550	0.454	0.518	0.570	0.520			0.484	18.83
40)	cis-1,2-DICHLOROETHYLENE											
		0.922	0.986	1.166	1.267	1.637	1.360	1.369	1.318	1.350	1.264	17.10
41)	DIISOPROPYL ETHER											
		3.699	3.468	3.698	3.736	4.007	3.292	3.852	3.962	4.017	3.748	6.58
42)	ETHYL ACETATE											
		0.202	0.280	0.360	0.302	0.355	0.386	0.354			0.320	19.84
43)	METHYL ACRYLATE											
		1.232	1.202	1.606	1.663	2.040	1.773	2.161	2.210	1.894	1.753	20.98
44)	CHLOROFORM											
		2.316	2.414	2.525	2.490	3.205	2.612	2.620	2.508	2.676	2.596	9.76
45)	2,4-DIMETHYLPENTANE											
		2.017	2.267	2.685	2.583	3.277	2.632	2.626	2.503	2.787	2.597	13.36
46)	1,1,1-TRICHLOROETHANE											
		2.127	2.110	2.214	2.328	3.078	2.468	2.496	2.409	2.506	2.415	12.08
47)	CARBON TETRACHLORIDE											
		2.017	2.334	2.814	2.757	3.337	2.690	2.687	2.573	2.892	2.678	13.67
48)	1,2-DICHLOROETHANE											
		1.248	1.312	1.466	1.946	1.573	1.635	1.602	1.483		1.533	14.05
49)	I 1,4-DIFLUOROBENZENE	-----ISTD-----										
50)	BENZENE											
		0.893	0.782	0.806	0.806	1.067	0.895	0.908	0.888	0.882	0.881	9.58
51)	CYCLOHEXANE											
		0.136	0.175	0.184	0.179	0.147	0.145	0.143	0.184		0.162	12.74
52)	2,3-DIMETHYLPENTANE											
		0.267	0.236	0.256	0.212	0.212	0.207	0.243			0.233	10.06
53)	TRICHLOROETHYLENE											

5.9.1

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Initial Calibration Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W886-ICC886
Lab FileID: 3W22419.D

		0.314	0.319	0.354	0.376	0.467	0.381	0.387	0.376	0.418	0.377	12.55
54)	1,2-DICHLOROPROPANE											
		0.271	0.296	0.301	0.304	0.405	0.343	0.357	0.354	0.332	0.329	12.41
55)	DIBROMOMETHANE											
		0.284	0.292	0.305	0.307	0.420	0.349	0.357	0.348	0.352	0.335	12.74
56)	ETHYL ACRYLATE											
		0.220	0.307	0.389	0.377	0.565	0.481	0.540	0.594	0.500	0.441	28.61
57)	BROMODICHLOROMETHANE											
		0.453	0.475	0.552	0.536	0.743	0.615	0.621	0.606	0.621	0.580	15.15
58)	2,2,4-TRIMETHYLPENTANE											
		1.455	1.400	1.432	1.491	1.852	1.515	1.514	1.447	1.598	1.523	8.96
59)	1,4-DIOXANE											
		0.090	0.126	0.141	0.182	0.151	0.160	0.171	0.153	0.147	19.65	
60)	HEPTANE											
		0.672	0.618	0.598	0.611	0.736	0.611	0.608	0.578	0.660	0.632	7.68
61)	TVHC as EQUIV HEPTANE											
		3.321	3.342	4.224	3.520	3.712	3.722	3.883	3.675	8.67		
62)	METHYL METHACRYLATE											
		0.134	0.192	0.207	0.270	0.231	0.272	0.302	0.275	0.235	23.51	
63)	METHYL ISOBUTYL KETONE											
		0.119	0.167	0.167	0.245	0.209	0.219	0.241	0.193	0.195	21.83	
64)	cis-1,3-DICHLOROPROPENE											
		0.338	0.349	0.371	0.557	0.474	0.495	0.491	0.442	0.440	18.01	
65)	TOLUENE											
		0.446	0.520	0.486	0.476	0.691	0.587	0.611	0.610	0.548	0.553	14.28
66)	trans-1,3-DICHLOROPROPENE											
		0.281	0.315	0.516	0.457	0.490	0.502	0.378	0.420	22.65		
67)	1,1,2-TRICHLOROETHANE											
		0.140	0.245	0.255	0.270	0.356	0.299	0.311	0.312	0.290	0.275	22.03
68)	I CHLOROBENZENE-D5	-----ISTD-----										
69)	2-HEXANONE											
		0.213	0.484	0.465	0.666	0.594	0.600	0.610	0.579	0.526	27.15	
70)	ETHYL METHACRYLATE											
		0.611	0.576	0.910	0.754	0.781	0.792	0.721	0.735	15.42		
71)	TETRACHLOROETHYLENE											
		0.836	0.833	0.830	0.844	1.030	0.844	0.815	0.731	0.978	0.860	10.41
72)	DIBROMOCHLOROMETHANE											
		0.993	1.051	1.066	1.095	1.512	1.249	1.256	1.156	1.236	1.179	13.29
73)	1,2-DIBROMOETHANE											
		0.615	0.704	0.807	0.855	1.241	1.051	1.071	0.990	1.057	0.932	21.50
74)	OCTANE											
		1.396	1.444	1.535	1.509	1.993	1.606	1.558	1.384	1.723	1.572	12.11
75)	1,1,1,2-TETRACHLOROETHANE											
		0.558	0.676	0.719	0.775	0.999	0.829	0.846	0.781	0.884	0.785	16.15
76)	CHLOROBENZENE											
		1.361	1.336	1.378	1.426	1.820	1.508	1.515	1.371	1.635	1.483	10.70
77)	ETHYLBENZENE											
		2.300	1.992	2.110	2.216	2.767	2.414	2.467	2.212	2.618	2.344	10.54
78)	m,p-XYLENE											
		0.750	0.737	0.779	0.803	1.015	0.886	0.937	0.859	0.965	0.859	11.54
79)	o-XYLENE											
		0.511	0.689	0.733	0.786	0.979	0.858	0.919	0.849	0.963	0.810	18.42
80)	STYRENE											
		0.791	0.763	1.452	1.312	1.417	1.312	1.217	1.181	24.24		
81)	NONANE											
		1.313	0.983	1.151	1.235	1.815	1.503	1.522	1.347	1.425	1.366	17.58
82)	BROMOFORM											
		0.685	0.820	0.873	1.320	1.106	1.169	1.094	1.077	1.018	20.40	
83)	4-BROMOFLUOROBENZENE											

5.9.1

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Initial Calibration Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W886-ICC886
Lab FileID: 3W22419.D

	0.918	0.942	0.965	1.007	1.190	1.162	1.151	1.067	1.101	1.056	9.66
84)	1,1,2,2-TETRACHLOROETHANE										
	0.736	0.784	0.912	0.912	1.314	1.135	1.244	1.139	1.303	1.053	21.05
85)	1,2,3-TRICHLOROPROPANE										
	0.727	0.629	0.778	0.749	0.993	0.874	1.004	0.938	1.017	0.857	16.47
86)	ISOPROPYLBENZENE										
	1.795	1.776	1.965	2.199	2.699	2.367	2.589	2.330	2.758	2.275	16.32
87)	BROMOBENZENE										
	0.880	0.864	1.311	1.119	1.167	1.071	1.108			1.074	14.71
88)	2-CHLOROTOLUENE										
	0.349	0.460	0.489	0.692	0.617	0.642	0.596	0.629		0.559	20.59
89)	n-PROPYLBENZENE										
	0.418	0.425	0.673	0.596	0.670	0.627	0.640			0.578	19.09
90)	4-ETHYLTOLUENE										
	1.194	1.121	1.459	1.473	2.312	2.041	2.349	2.159	2.190	1.811	27.29
91)	1,3,5-TRIMETHYLBENZENE										
	1.142	0.970	1.257	1.178	1.838	1.602	1.867	1.720	1.638	1.468	22.72
92)	ALPHA-METHYLSTYRENE										
	0.357	0.362	0.771	0.705	0.855	0.817	0.500			0.624	34.26
93)	tert-BUTYLBENZENE										
	0.187	0.242	0.282	0.424	0.366	0.437	0.420	0.412		0.346	27.80
94)	1,2,4-TRIMETHYLBENZENE										
	0.841	0.861	1.106	1.085	1.748	1.489	1.734	1.626	1.390	1.320	27.10
95)	m-DICHLOROBENZENE										
	0.833	0.701	0.815	0.735	1.248	1.093	1.193	1.112	1.116	0.983	21.35
96)	BENZYL CHLORIDE										
	0.899	0.571	0.944	0.872	1.300	1.164	1.414	1.398	1.226	1.088	26.05
97)	p-DICHLOROBENZENE										
	0.689	0.569	0.817	0.768	1.189	1.066	1.180	1.088	1.043	0.934	24.31
98)	sec-BUTYLBENZENE										
	0.266	0.285	0.515	0.442	0.526	0.505	0.454			0.428	25.34
99)	p-ISOPROPYLTOLUENE										
	0.284	0.314	0.535	0.441	0.534	0.530	0.422			0.437	24.10
100)	o-DICHLOROBENZENE										
	0.520	0.528	0.691	0.705	1.088	0.962	1.080	1.003	0.946	0.836	27.15
101)	n-BUTYLBENZENE										
	0.223	0.239	0.433	0.372	0.453	0.454	0.310			0.355	27.82
102)	HEXACHLOROETHANE										
	0.402	0.433	0.792	0.679	0.731	0.678	0.636			0.622	23.81
103)	HEXACHLOROBUTADIENE										
	0.197	0.408	0.389	0.596	0.534	0.607	0.557	0.513		0.475	28.99
104)	1,2,4-TRICHLOROBENZENE										
	0.244	0.275	0.347	0.329	0.398	0.411	0.243			0.321	21.61

105) I CHLOROBENZENE-D5 (a) -----ISTD-----

106) NAPHTHALENE
0.309 0.271 0.468 0.429 0.526 0.548 0.264 0.402 29.88

(#) = Out of Range ### Number of calibration levels exceeded format ###

M3W886.M Mon May 16 16:38:21 2011 MS3W

Initial Calibration Verification

Job Number: JA81330
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W886-ICV886
 Lab FileID: 3W22426.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W22426.D

Vial: 6

Acq On : 14 May 2011 12:01 am

Operator: yunxiac

Sample : icv886-10

Inst : MS3W

Misc : MS12271,V3W886,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)

Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

Last Update : Mon May 16 16:34:23 2011

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	102	-0.01	7.30
2	FREON 115			-----NA-----			
3	FREON 152A			-----NA-----			
4	CHLORODIFLUOROMETHANE	0.407	0.357	12.3	104	0.00	3.99
5	DICHLORODIFLUOROMETHANE	3.752	3.344	10.9	102	0.00	4.05
6	PROPYLENE	1.664	1.287	22.7	101	0.00	4.00
7	FREON 114	4.108	3.312	19.4	89	0.00	4.21
8	CHLOROMETHANE	1.680	1.441	14.2	106	0.00	4.15
9	VINYL CHLORIDE	1.598	1.493	6.6	98	0.00	4.29
10	1,3-BUTADIENE	1.207	1.119	7.3	97	0.00	4.37
11	n-BUTANE	2.849	2.300	19.3	98	0.00	4.39
12	BROMOMETHANE	1.477	1.298	12.1	96	0.00	4.54
13	CHLOROETHANE	0.789	0.770	2.4	97	0.00	4.64
14	DICHLOROFLUOROMETHANE			-----NA-----			
15	ACETONITRILE			-----NA-----			
16	FREON 123	3.093	3.095	-0.1	99	0.00	4.93
17	FREON 123A	1.649	1.664	-0.9	98	0.00	4.97
18	TRICHLOROFLUOROMETHANE	3.490	3.133	10.2	99	0.00	5.12
19	ISOPROPYL ALCOHOL	2.438	2.024	17.0	95	-0.02	5.17
20	ACETONE	0.588	0.440	25.2	90	-0.01	5.01
21	PENTANE	1.973	1.648	16.5	100	0.00	5.31
22 H	TVHC as EQUIV PENTANE	9.759	7.365	24.5	77	0.00	5.31
23	IODOMETHANE	3.678	3.489	5.1	99	0.00	5.50
24	1,1-DICHLOROETHYLENE	1.365	1.193	12.6	94	0.00	5.55
25	CARBON DISULFIDE	3.715	3.575	3.8	106	0.00	5.85
26	ETHANOL	0.695	0.519	25.3	95	-0.02	4.72
27	BROMOETHENE	1.381	1.292	6.4	96	0.00	4.86
28	ACRYLONITRILE			-----NA-----			
29	METHYLENE CHLORIDE	1.418	1.144	19.3	94	0.00	5.64
30	3-CHLOROPROPENE	0.591	0.592	-0.2	96	0.00	5.71
31	FREON 113	2.272	1.976	13.0	93	0.00	5.80
32	TRANS-1,2-DICHLOROETHYLEN	1.269	1.270	-0.1	102	0.00	6.30
33	TERTIARY BUTYL ALCOHOL	2.410	2.353	2.4	96	-0.02	5.56
34	METHYL TERTIARY BUTYL ETH	2.894	2.332	19.4	94	0.00	6.47
35	TETRAHYDROFURAN	0.502	0.427	14.9	94	-0.01	7.73
36	HEXANE	2.248	2.112	6.0	102	0.00	7.23
37	VINYL ACETATE	0.221	0.197	10.9	82	-0.01	6.57
38	1,1-DICHLOROETHANE	2.423	2.308	4.7	95	0.00	6.47
39	METHYL ETHYL KETONE	0.484	0.434	10.3	97	-0.01	6.76
40	cis-1,2-DICHLOROETHYLENE	1.264	1.274	-0.8	95	0.00	7.18
41	DIISOPROPYL ETHER	3.748	3.161	15.7	98	0.00	7.24
42	ETHYL ACETATE	0.320	0.289	9.7	97	-0.01	7.31

Initial Calibration Verification

Job Number: JA81330
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W886-ICV886
 Lab FileID: 3W22426.D

43	METHYL ACRYLATE			-----NA-----			
44	CHLOROFORM	2.596	2.536	2.3	99	-0.01	7.39
45	2,4-DIMETHYLPENTANE	2.597	2.637	-1.5	102	0.00	7.98
46	1,1,1-TRICHLOROETHANE	2.415	2.372	1.8	98	0.00	8.25
47	CARBON TETRACHLORIDE	2.678	2.606	2.7	99	0.00	8.82
48	1,2-DICHLOROETHANE	1.533	1.484	3.2	96	0.00	8.03
49 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	105	0.00	9.01
50	BENZENE	0.881	0.805	8.6	94	0.00	8.68
51	CYCLOHEXANE	0.162	0.140	13.6	100	0.00	8.86
52	2,3-DIMETHYLPENTANE	0.233	0.205	12.0	101	0.00	9.06
53	TRICHLOROETHYLENE	0.377	0.356	5.6	98	0.00	9.66
54	1,2-DICHLOROPROPANE	0.329	0.305	7.3	93	0.00	9.41
55	DIBROMOMETHANE			-----NA-----			
56	ETHYL ACRYLATE			-----NA-----			
57	BROMODICHLOROMETHANE	0.580	0.550	5.2	93	0.00	9.64
58	2,2,4-TRIMETHYLPENTANE	1.523	1.420	6.8	98	0.00	9.59
59	1,4-DIOXANE	0.147	0.140	4.8	97	-0.01	9.70
60	HEPTANE	0.632	0.585	7.4	100	0.00	9.85
61 H	TVHC as EQUIV HEPTANE	3.675	3.279	10.8	97	0.00	9.86
62	METHYL METHACRYLATE	0.235	0.199	15.3	90	0.00	9.87
63	METHYL ISOBUTYL KETONE	0.195	0.192	1.5	96	0.00	10.50
64	cis-1,3-DICHLOROPROPENE	0.440	0.415	5.7	91	0.00	10.52
65	TOLUENE	0.553	0.507	8.3	90	0.00	11.47
66	trans-1,3-DICHLOROPROPENE	0.420	0.394	6.2	90	0.00	11.04
67	1,1,2-TRICHLOROETHANE	0.275	0.258	6.2	90	0.00	11.20
68 I	CHLOROBENZENE-D5	1.000	1.000	0.0	103	0.00	13.32
69	2-HEXANONE	0.526	0.483	8.2	84	-0.01	11.72
70	ETHYL METHACRYLATE			-----NA-----			
71	TETRACHLOROETHYLENE	0.860	0.771	10.3	95	0.00	12.63
72	DIBROMOCHLOROMETHANE	1.179	1.080	8.4	90	0.00	11.92
73	1,2-DIBROMOETHANE	0.932	0.909	2.5	90	0.00	12.13
74	OCTANE	1.572	1.467	6.7	95	0.00	12.42
75	1,1,1,2-TETRACHLOROETHANE	0.785	0.732	6.8	91	0.00	13.34
76	CHLOROBENZENE	1.483	1.311	11.6	90	0.00	13.36
77	ETHYLBENZENE	2.344	1.995	14.9	86	0.00	13.74
78	m,p-XYLENE	0.859	0.713	17.0	83	0.00	13.93
79	o-XYLENE	0.810	0.677	16.4	82	0.00	14.45
80	STYRENE	1.181	1.022	13.5	81	0.00	14.35
81	NONANE	1.366	1.337	2.1	92	0.00	14.64
82	BROMOFORM	1.018	0.951	6.6	89	0.00	14.04
83 S	4-BROMOFLUOROBENZENE	1.056	1.151	-9.0	103	0.00	14.98
84	1,1,2,2-TETRACHLOROETHANE	1.053	0.938	10.9	86	0.00	14.47
85	1,2,3-TRICHLOROPROPANE	0.857	0.726	15.3	86	0.00	14.60
86	ISOPROPYLBENZENE	2.275	1.886	17.1	82	0.00	15.10
87	BROMOBENZENE			-----NA-----			
88	2-CHLOROTOLUENE	0.559	0.499	10.7	84	0.00	15.67
89	n-PROPYLBENZENE	0.578	0.470	18.7	82	0.00	15.70
90	4-ETHYLTOLUENE	1.811	1.638	9.6	83	0.00	15.87
91	1,3,5-TRIMETHYLBENZENE	1.468	1.320	10.1	85	0.00	15.97
92	ALPHA-METHYLSTYRENE			-----NA-----			
93	tert-BUTYLBENZENE	0.346	0.308	11.0	87	0.00	16.46
94	1,2,4-TRIMETHYLBENZENE	1.320	1.265	4.2	88	0.00	16.47
95	m-DICHLOROBENZENE	0.983	0.901	8.3	85	0.00	16.67
96	BENZYL CHLORIDE	1.088	1.005	7.6	89	0.00	16.67
97	p-DICHLOROBENZENE	0.934	0.879	5.9	85	0.00	16.75
98	sec-BUTYLBENZENE	0.428	0.363	15.2	85	0.00	16.79
99	p-ISOPROPYLTOLUENE	0.437	0.390	10.8	92	0.00	16.98
100	o-DICHLOROBENZENE	0.836	0.782	6.5	84	0.00	17.18

5.9.2

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Initial Calibration Verification

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W886-ICV886
Lab FileID: 3W22426.D

101	n-BUTYLBENZENE	0.355	0.327	7.9	91	0.00	17.50
102	HEXACHLOROETHANE		-----NA-----				
103	HEXACHLOROBUTADIENE	0.475	0.408	14.1	79	0.00	19.79
104	1,2,4-TRICHLOROBENZENE	0.321	0.263	18.1	83	0.00	19.23
105 I	CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	103	0.00	13.32
106	NAPHTHALENE		-----NA-----				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W22419.D M3W886.M Mon May 16 16:42:08 2011 MS3W

5.9.2
5

Continuing Calibration Summary

Page 1 of 3

Job Number: JA81330
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W910-CC886
 Lab FileID: 3W23018.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W23018.D

Vial: 2

Acq On : 24 Jun 2011 9:27 am

Operator: yunxiac

Sample : CC886-10

Inst : MS3W

Misc : MS14246,V3W910,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)

Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

Last Update : Mon May 16 16:34:23 2011

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	106	0.00	7.31
2	FREON 115			-----NA-----			
3	FREON 152A			-----NA-----			
4	CHLORODIFLUOROMETHANE	0.407	0.346	15.0	105	0.03	4.02
5	DICHLORODIFLUOROMETHANE	3.752	3.035	19.1	97	0.03	4.08
6	PROPYLENE	1.664	1.425	14.4	116	0.03	4.03
7	FREON 114	4.108	3.312	19.4	93	0.02	4.24
8	CHLOROMETHANE	1.680	1.472	12.4	113	0.02	4.18
9	VINYL CHLORIDE	1.598	1.423	11.0	97	0.02	4.32
10	1,3-BUTADIENE	1.207	1.113	7.8	100	0.02	4.39
11	n-BUTANE	2.849	2.390	16.1	106	0.02	4.41
12	BROMOMETHANE	1.477	1.191	19.4	92	0.01	4.56
13	CHLOROETHANE	0.789	0.746	5.4	98	0.02	4.66
14	DICHLOROFLUOROMETHANE	3.332	2.919	12.4	99	0.02	4.72
15	ACETONITRILE	1.317	1.284	2.5	121	0.02	4.91
16	FREON 123	3.093	2.881	6.9	96	0.02	4.95
17	FREON 123A	1.649	1.517	8.0	93	0.01	4.99
18	TRICHLOROFLUOROMETHANE	3.490	2.915	16.5	96	0.02	5.14
19	ISOPROPYL ALCOHOL	2.438	2.299	5.7	112	0.00	5.19
20	ACETONE	0.588	0.538	8.5	114	0.00	5.03
21	PENTANE	1.973	1.689	14.4	106	0.01	5.33
22 H	TVHC as EQUIV PENTANE	9.759	9.989	-2.4	108	0.01	5.33
23	IODOMETHANE	3.678	3.096	15.8	91	0.01	5.53
24	1,1-DICHLOROETHYLENE	1.365	1.168	14.4	95	0.01	5.57
25	CARBON DISULFIDE	3.715	3.205	13.7	99	0.00	5.87
26	ETHANOL	0.695	0.597	14.1	114	0.00	4.75
27	BROMOETHENE	1.381	1.186	14.1	91	0.01	4.88
28	ACRYLONITRILE	0.751	0.891	-18.6	116	0.00	5.36
29	METHYLENE CHLORIDE	1.418	1.120	21.0	96	0.00	5.66
30	3-CHLOROPROPENE	0.591	0.604	-2.2	102	0.01	5.73
31	FREON 113	2.272	1.839	19.1	90	0.01	5.82
32	TRANS-1,2-DICHLOROETHYLEN	1.269	1.163	8.4	97	0.00	6.30
33	TERTIARY BUTYL ALCOHOL	2.410	2.511	-4.2	107	0.00	5.57
34	METHYL TERTIARY BUTYL ETH	2.894	2.729	5.7	115	0.00	6.48
35	TETRAHYDROFURAN	0.502	0.516	-2.8	118	0.00	7.73
36	HEXANE	2.248	2.131	5.2	107	0.00	7.24
37	VINYL ACETATE	0.221	0.267	-20.8	115	0.00	6.58
38	1,1-DICHLOROETHANE	2.423	2.488	-2.7	107	0.00	6.47
39	METHYL ETHYL KETONE	0.484	0.459	5.2	107	0.00	6.77
40	cis-1,2-DICHLOROETHYLENE	1.264	1.281	-1.3	100	0.00	7.19
41	DIISOPROPYL ETHER	3.748	3.925	-4.7	126	0.00	7.24
42	ETHYL ACETATE	0.320	0.333	-4.1	116	0.00	7.31

Continuing Calibration Summary

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: V3W910-CC886
Lab FileID: 3W23018.D

43		METHYL ACRYLATE	1.753	2.059	-17.5	123	0.00	7.33
44		CHLOROFORM	2.596	2.559	1.4	104	0.00	7.40
45		2,4-DIMETHYLPENTANE	2.597	2.653	-2.2	107	0.00	7.98
46		1,1,1-TRICHLOROETHANE	2.415	2.395	0.8	103	0.00	8.26
47		CARBON TETRACHLORIDE	2.678	2.513	6.2	99	0.00	8.82
48		1,2-DICHLOROETHANE	1.533	1.625	-6.0	109	0.00	8.03
49	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	105	0.00	9.02
50		BENZENE	0.881	0.897	-1.8	105	0.00	8.68
51		CYCLOHEXANE	0.162	0.141	13.0	101	0.00	8.87
52		2,3-DIMETHYLPENTANE	0.233	0.208	10.7	103	0.00	9.05
53		TRICHLOROETHYLENE	0.377	0.365	3.2	101	0.00	9.66
54		1,2-DICHLOROPROPANE	0.329	0.376	-14.3	115	0.00	9.41
55		DIBROMOMETHANE	0.335	0.312	6.9	94	0.00	9.43
56		ETHYL ACRYLATE	0.441	0.529	-20.0	116	-0.02	9.43
57		BROMODICHLOROMETHANE	0.580	0.612	-5.5	105	0.00	9.63
58		2,2,4-TRIMETHYLPENTANE	1.523	1.592	-4.5	111	0.00	9.58
59		1,4-DIOXANE	0.147	0.152	-3.4	106	-0.02	9.69
60		HEPTANE	0.632	0.678	-7.3	117	0.00	9.85
61	H	TVHC as EQUIV HEPTANE	3.675	3.782	-2.9	113	0.00	9.85
62		METHYL METHACRYLATE	0.235	0.252	-7.2	115	0.00	9.86
63		METHYL ISOBUTYL KETONE	0.195	0.220	-12.8	111	-0.02	10.49
64		cis-1,3-DICHLOROPROPENE	0.440	0.485	-10.2	108	-0.01	10.51
65		TOLUENE	0.553	0.580	-4.9	104	-0.02	11.46
66		trans-1,3-DICHLOROPROPENE	0.420	0.471	-12.1	109	0.00	11.03
67		1,1,2-TRICHLOROETHANE	0.275	0.305	-10.9	107	-0.02	11.19
68	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	-0.02	13.31
69		2-HEXANONE	0.526	0.604	-14.8	109	-0.02	11.71
70		ETHYL METHACRYLATE	0.735	0.754	-2.6	107	-0.01	11.75
71		TETRACHLOROETHYLENE	0.860	0.739	14.1	94	-0.02	12.61
72		DIBROMOCHLOROMETHANE	1.179	1.174	0.4	100	-0.02	11.91
73		1,2-DIBROMOETHANE	0.932	0.991	-6.3	101	-0.02	12.12
74		OCTANE	1.572	1.788	-13.7	119	-0.02	12.40
75		1,1,1,2-TETRACHLOROETHANE	0.785	0.787	-0.3	101	-0.02	13.32
76		CHLOROBENZENE	1.483	1.399	5.7	99	-0.02	13.35
77		ETHYLBENZENE	2.344	2.342	0.1	104	-0.02	13.73
78		m,p-XYLENE	0.859	0.860	-0.1	104	-0.02	13.91
79		o-XYLENE	0.810	0.835	-3.1	104	-0.02	14.43
80		STYRENE	1.181	1.205	-2.0	98	-0.02	14.33
81		NONANE	1.366	1.723	-26.1	122	-0.02	14.63
82		BROMOFORM	1.018	1.004	1.4	97	-0.01	14.02
83	S	4-BROMOFLUOROBENZENE	1.056	1.037	1.8	95	-0.02	14.96
84		1,1,2,2-TETRACHLOROETHANE	1.053	1.168	-10.9	110	-0.02	14.45
85		1,2,3-TRICHLOROPROPANE	0.857	0.914	-6.7	112	-0.02	14.58
86		ISOPROPYLBENZENE	2.275	2.342	-2.9	106	-0.02	15.09
87		BROMOBENZENE	1.074	1.067	0.7	102	-0.02	15.20
88		2-CHLOROTOLUENE	0.559	0.569	-1.8	98	-0.02	15.65
89		n-PROPYLBENZENE	0.578	0.580	-0.3	104	-0.01	15.69
90		4-ETHYLTOLUENE	1.811	2.015	-11.3	105	-0.02	15.86
91		1,3,5-TRIMETHYLBENZENE	1.468	1.577	-7.4	105	-0.02	15.95
92		ALPHA-METHYLSTYRENE	0.624	0.676	-8.3	102	-0.02	16.17
93		tert-BUTYLBENZENE	0.346	0.357	-3.2	104	-0.02	16.44
94		1,2,4-TRIMETHYLBENZENE	1.320	1.471	-11.4	105	-0.02	16.45
95		m-DICHLOROBENZENE	0.983	0.989	-0.6	97	-0.02	16.65
96		BENZYL CHLORIDE	1.088	1.149	-5.6	105	-0.02	16.65
97		p-DICHLOROBENZENE	0.934	0.938	-0.4	94	-0.02	16.73
98		sec-BUTYLBENZENE	0.428	0.420	1.9	101	-0.02	16.77
99		p-ISOPROPYLTOLUENE	0.437	0.421	3.7	102	-0.02	16.97
100		o-DICHLOROBENZENE	0.836	0.872	-4.3	97	-0.02	17.16

5.9.3

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Page 3 of 3

Sample: V3W910-CC886
Lab FileID: 3W23018.D

101	n-BUTYLBENZENE	0.355	0.341	3.9	98	-0.01	17.49
102	HEXACHLOROETHANE	0.622	0.655	-5.3	103	-0.02	17.97
103	HEXACHLOROBUTADIENE	0.475	0.496	-4.4	99	-0.02	19.77
104	1,2,4-TRICHLOROBENZENE	0.321	0.290	9.7	94	-0.02	19.21
105	I CHLOROBENZENE-D5 (a)	1.000	1.000	0.0	107	-0.02	13.31
106	NAPHTHALENE	0.402	0.403	-0.2	100	-0.02	19.35

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SPCC's out = 0   CCC's out = 0
Tue Jun 28 14:18:47 2011    MS3W
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Initial Calibration Summary

Page 1 of 3

Job Number: JA81330
 Account: RAVIV TRC
 Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1322-ICC1322
 Lab FileID: W32352.D

Response Factor Report MSW

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

Calibration Files

0.04=W32359.D 0.1 =W32365.D 0.2 =W32364.D 0.5 =W32353.D
 5 =W32357.D 10 =W32352.D 20 =W32356.D 40 =W32360.D

Compound	0.04	0.1	0.2	0.5	5	10	20	40	Avg	%RSD
1) I BROMOCHLOROMETHANE										
2) FREON 115									0.000	-1.00
3) FREON 152A									0.000	-1.00
4) CHLORODIFLUO			0.280	0.297	0.300	0.292	0.299	0.283	0.292	2.90
5) DICHLORODIFL	2.689	3.278	2.779	2.805	3.089	2.982	3.039	2.840	2.938	6.63
6) PROPYLENE	1.522	1.405	1.220	1.141	1.198	1.153	1.211	1.150	1.250	11.10
7) FREON 114	3.122	3.724	3.213	3.301	3.648	3.581	3.608	3.344	3.443	6.52
8) CHLOROMETHAN			0.382	0.380	0.386	0.373	0.390	0.372	0.380	1.86
9) VINYL CHLORI	1.147	1.480	1.187	1.281	1.381	1.348	1.394	1.316	1.317	8.35
10) 1,3-BUTADIEN	1.082	1.175	1.048	1.077	1.133	1.106	1.140	1.061	1.103	3.97
11) n-BUTANE			2.131	2.105	2.277	2.202	2.272	2.103	2.182	3.68
12) BROMOMETHANE	0.944	1.227	1.062	1.142	1.206	1.170	1.175	1.095	1.128	8.16
13) CHLOROETHANE	0.671	0.791	0.711	0.749	0.793	0.783	0.796	0.749	0.755	5.97
14) DICHLOROFLUO	2.449	2.899	2.518	2.647	2.810	2.767	2.765	2.580	2.679	5.82
15) ACROLEIN			0.552	0.528	0.547	0.544	0.551	0.518	0.540	2.59
16) FREON 123	2.676	3.058	2.650	2.787	3.064	3.011	2.969	2.751	2.871	6.03
17) FREON 123A	1.524	1.837	1.635	1.699	1.826	1.798	1.769	1.649	1.717	6.40
18) TRICHLOROFLU	2.752	3.090	2.696	2.743	2.905	2.841	2.822	2.593	2.805	5.32
19) ISOPROPYL AL			2.529	2.341	2.458	2.439	2.516	2.338	2.437	3.39
20) ACETONE			0.709	0.617	0.624	0.633	0.644	0.611	0.640	5.60
21) ACRYLONITRIL		1.007	0.896	0.945	1.047	1.059	1.081	1.018	1.008	6.54
22) PENTANE	0.448	0.482	0.395	0.421	0.402	0.393	0.396	0.365	0.413	8.91
23) TVHC as EQUI		8.684	7.499	7.169	7.305	7.357	7.482	6.837	7.476	7.74
24) IODOMETHANE	2.467	3.156	2.836	3.012	3.230	3.169	3.107	2.857	2.979	8.47
25) 1,1-DICHLORO			1.239	1.243	1.307	1.296	1.283	1.199	1.261	3.27
26) CARBON DISUL	2.634	3.357	2.897	3.096	3.222	3.151	3.133	2.894	3.048	7.48
27) ETHANOL				0.807	0.621	0.603	0.604	0.566	0.640	14.89
28) ACETONITRILE	1.246	1.039	0.936	0.953	1.075	1.079	1.106	1.049	1.060	9.06
29) BROMOETHENE	1.015	1.279	1.095	1.164	1.245	1.222	1.220	1.136	1.172	7.47
30) METHYLENE CH			1.432	1.253	1.182	1.171	1.152	1.068	1.210	10.25
31) 3-CHLOROPROP	0.474	0.633	0.565	0.604	0.660	0.655	0.652	0.610	0.607	10.30
32) FREON 113	1.880	2.150	1.916	2.057	2.219	2.194	2.162	1.997	2.072	6.26
33) TRANS-1,2-DI	1.038	1.212	1.177	1.184	1.244	1.237	1.225	1.150	1.184	5.68
34) TERTIARY BUT	2.290	2.937	2.673	2.915	3.032	2.992	3.026	2.712	2.822	9.02
35) METHYL TERTI	2.858	3.494	2.940	3.362	3.605	3.684	3.645	3.398	3.373	9.33
36) TETRAHYDROFU	0.398	0.574	0.522	0.588	0.641	0.666	0.660	0.629	0.585	15.31
37) HEXANE	2.137	2.345	2.054	2.175	2.302	2.265	2.201	1.944	2.178	6.09
38) VINYL ACETAT			0.241	0.300	0.351	0.364	0.360	0.346	0.327	14.66
39) 1,1-DICHLORO	2.005	2.438	2.158	2.274	2.448	2.432	2.383	2.200	2.292	7.05
40) METHYL ETHYL	0.440	0.628	0.536	0.607	0.638	0.658	0.659	0.631	0.600	12.55
41) cis-1,2-DICH	1.427	1.367	1.213	1.415	1.352	1.358	1.341	1.262	1.342	5.39
42) DI-ISOPROPYL	4.095	4.817	4.109	4.636	4.750	4.832	4.673	4.121	4.504	7.42
43) ETHYL ACETAT		0.366	0.353	0.410	0.400	0.406	0.407	0.374	0.388	5.97
44) METHYL ACRYL	2.091	2.290	2.046	2.274	2.413	2.483	2.439	2.218	2.282	7.00
45) CHLOROFORM	1.980	2.528	2.222	2.323	2.497	2.465	2.416	2.255	2.336	7.79
46) 2,4-DIMETHYL	2.296	2.672	2.437	2.533	2.775	2.766	2.700	2.462	2.580	6.76

Initial Calibration Summary

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Sample: VW1322-ICC1322
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47)	1,1,1-TRICHL	2.031	2.422	2.201	2.279	2.520	2.484	2.416	2.252	2.326	7.09
48)	CARBON TETRA	2.100	2.449	2.269	2.352	2.575	2.552	2.473	2.294	2.383	6.72
49)	1,2-DICHLORO	1.055	1.416	1.251	1.377	1.463	1.470	1.438	1.326	1.350	10.38
50)	I 1,4-DIFLUOROBENZENE	-----ISTD-----									
51)	BENZENE	0.678	0.772	0.713	0.724	0.827	0.817	0.811	0.759	0.763	7.12
52)	CYCLOHEXANE	0.376	0.456	0.379	0.359	0.390	0.384	0.380	0.355	0.385	8.10
53)	2,3-DIMETHYL	0.164	0.196	0.189	0.179	0.203	0.201	0.201	0.188	0.190	7.09
54)	TRICHLOROETH	0.259	0.307	0.286	0.290	0.317	0.314	0.312	0.287	0.297	6.66
55)	DIBROMOMETHA	0.237	0.272	0.260	0.258	0.288	0.287	0.285	0.270	0.270	6.51
56)	1,2-DICHLORO	0.272	0.314	0.271	0.274	0.302	0.298	0.295	0.270	0.287	6.01
57)	ETHYL ACRYLA	0.420	0.468	0.440	0.488	0.539	0.552	0.556	0.513	0.497	10.39
58)	BROMODICHLOR	0.402	0.478	0.443	0.455	0.516	0.510	0.502	0.463	0.471	8.20
59)	2,2,4-TRIMET	1.172	1.378	1.231	1.289	1.456	1.414	1.369	1.188	1.312	8.20
60)	1,4-DIOXANE			0.117	0.144	0.170	0.168	0.172	0.158	0.155	13.83
61)	METHYL METHA		0.239	0.224	0.251	0.269	0.282	0.285	0.273	0.260	8.90
62)	HEPTANE	0.513	0.536	0.465	0.449	0.511	0.500	0.498	0.453	0.491	6.38
63)	TVHC as EQUI	2.142	2.354	2.035	1.986	2.206	2.188	2.181	1.983	2.134	5.96
64)	METHYL ISOBU	0.489	0.524	0.484	0.519	0.557	0.559	0.562	0.519	0.527	5.83
65)	cis-1,3-DICH	0.326	0.389	0.361	0.364	0.409	0.412	0.411	0.386	0.382	7.92
66)	TOLUENE	0.462	0.518	0.467	0.477	0.551	0.556	0.550	0.513	0.512	7.64
67)	trans-1,3-DI	0.303	0.339	0.331	0.336	0.383	0.388	0.388	0.368	0.355	8.92
68)	1,1,2-TRICHL	0.169	0.223	0.198	0.218	0.244	0.247	0.246	0.232	0.222	12.33
69)	I CHLOROBENZENE-D5	-----ISTD-----									
70)	ETHYL METHAC	0.580	0.725	0.701	0.779	0.877	0.875	0.857	0.770	0.770	13.25
71)	2-HEXANONE	1.029	0.848	0.933	1.101	1.075	1.031	1.006	0.885	0.989	9.16
72)	TETRACHLOROE	0.603	0.722	0.649	0.668	0.716	0.696	0.665	0.605	0.666	6.85
73)	DIBROMOCHLOR	0.761	0.865	0.862	0.881	1.014	0.988	0.948	0.857	0.897	9.14
74)	1,2-DIBROMOE	0.601	0.753	0.710	0.741	0.828	0.822	0.792	0.720	0.746	9.84
75)	OCTANE	1.222	1.370	1.211	1.248	1.374	1.333	1.267	1.108	1.267	7.15
76)	1,1,1,2-TETR	0.551	0.671	0.624	0.666	0.741	0.727	0.697	0.620	0.662	9.42
77)	CHLOROBENZEN	1.104	1.276	1.153	1.245	1.347	1.322	1.275	1.142	1.233	7.25
78)	ETHYLBENZENE	1.735	1.962	1.800	1.958	2.224	2.206	2.114	1.896	1.987	9.09
79)	m,p-XYLENE	0.618	0.765	0.713	0.772	0.866	0.864	0.829	0.740	0.771	10.84
80)	o-XYLENE	0.610	0.745	0.682	0.741	0.838	0.832	0.799	0.710	0.745	10.47
81)	STYRENE	0.842	0.907	0.909	1.025	1.221	1.243	1.203	1.096	1.056	15.03
82)	1,2,3-TRICHL	0.723	0.702	0.665	0.715	0.790	0.786	0.757	0.680	0.727	6.40
83)	NONANE	0.989	1.138	1.007	1.036	1.246	1.226	1.165	1.011	1.102	9.44
84)	BROMOFORM	0.611	0.745	0.674	0.753	0.875	0.878	0.845	0.773	0.769	12.38
85)	4-BROMOFLUOR	1.024	1.033	1.053	1.078	1.130	1.151	1.110	1.067	1.081	4.23
86)	1,1,2,2-TETR	0.708	0.864	0.808	0.852	0.983	0.980	0.947	0.841	0.873	10.77
87)	ISOPROPYLBEN	1.667	2.077	1.918	2.073	2.385	2.377	2.259	2.010	2.096	11.59
88)	BROMOBENZENE	0.456	0.499	0.484	0.523	0.627	0.630	0.606	0.558	0.548	12.38
89)	2-CHLOROTOLU	0.396	0.447	0.428	0.455	0.527	0.525	0.506	0.459	0.468	10.13
90)	n-PROPYLBENZ	0.390	0.468	0.438	0.510	0.596	0.609	0.589	0.535	0.517	15.54
91)	4-ETHYLTOLUE	1.368	1.546	1.474	1.660	2.033	2.073	1.992	1.797	1.743	15.59
92)	1,3,5-TRIMET	1.159	1.364	1.318	1.422	1.627	1.647	1.572	1.421	1.441	11.60
93)	ALPHA-METHYL			0.427	0.514	0.720	0.760	0.744	0.682	0.641	21.45
94)	TERT-BUTYLB		0.324	0.344	0.358	0.419	0.432	0.415	0.371	0.380	11.01
95)	1,2,4-TRIMET	1.062	1.182	1.146	1.290	1.515	1.549	1.495	1.326	1.321	13.97
96)	m-DICHLOROB	0.690	0.669	0.652	0.727	0.880	0.916	0.894	0.829	0.782	13.96
97)	BENZYL CHLOR	0.837	0.725	0.750	0.839	1.044	1.103	1.114	1.043	0.932	17.26
98)	p-DICHLOROB	0.782	0.661	0.657	0.693	0.852	0.868	0.862	0.795	0.771	11.62
99)	SEC-BUTYLBEN	0.294	0.358	0.360	0.400	0.472	0.490	0.475	0.434	0.410	16.94
100)	p-ISOPROPYLT	0.271	0.329	0.332	0.377	0.454	0.474	0.463	0.419	0.390	19.06
101)	o-DICHLOROB	0.706	0.614	0.605	0.669	0.768	0.786	0.772	0.711	0.704	9.95
102)	n-BUTYLBENZE			0.239	0.277	0.337	0.360	0.365	0.345	0.321	15.88
103)	HEXACHLOROET		0.349	0.341	0.361	0.490	0.499	0.486	0.450	0.425	16.88
104)	HEXACHLOROB	0.214	0.232	0.279	0.289	0.259	0.245	0.239	0.213	0.246	11.40

5.9.4

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Initial Calibration Summary

Job Number: JA81330
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Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1322-ICC1322
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105)	1,2,4-TRICHL	0.141	0.180	0.202	0.163	0.155	0.170	0.169	0.169	11.29
106)	I Chlorobenzene-d5(a)	-----ISTD-----								
107)	NAPHTHALENE	0.210	0.355	0.319	0.286	0.319	0.308	0.299		16.36

(#) = Out of Range ### Number of calibration levels exceeded format ###										
MW1322.M Wed Jun 22 15:01:40 2011 MSW										

5.9.4
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Initial Calibration Verification

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1323-ICV1322
Lab FileID: W32368.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W32368.D
 Acq On : 22 Jun 2011 1:22 pm
 Sample : ICV1322-10
 Misc : MS14116,VW1323,,,,,1
 MS Integration Params: rteint.p

Vial: 3
 Operator: YOUMINH
 Inst : MSW
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I BROMOCHLOROMETHANE	1.000	1.000	0.0	103	0.00
2	FREON 115	0.000	0.000	0.0	0#	-5.02#
3	FREON 152A	0.000	0.000	0.0	0#	-4.85#
4	CHLORODIFLUOROMETHANE	0.292	0.279	4.5	99	0.00
5	DICHLORODIFLUOROMETHANE	2.938	2.794	4.9	97	0.00
6	PROPYLENE	1.250	1.090	12.8	98	0.00
7	FREON 114	3.443	2.975	13.6	86	0.00
8	CHLOROMETHANE	0.380	0.370	2.6	103	0.00
9	VINYL CHLORIDE	1.317	1.309	0.6	100	0.00
10	1,3-BUTADIENE	1.103	1.045	5.3	98	0.00
11	n-BUTANE	2.182	2.069	5.2	97	0.00
12	BROMOMETHANE	1.128	1.081	4.2	96	0.00
13	CHLOROETHANE	0.755	0.739	2.1	98	0.00
14	DICHLOROFLUOROMETHANE	2.679	0.000	100.0#	0#	-5.78#
15	ACROLEIN	0.540	0.520	3.7	99	0.00
16	FREON 123	2.871	2.819	1.8	97	0.00
17	FREON 123A	1.717	1.637	4.7	94	0.00
18	TRICHLOROFLUOROMETHANE	2.805	2.616	6.7	95	0.00
19	ISOPROPYL ALCOHOL	2.437	2.293	5.9	97	0.00
20	ACETONE	0.640	0.581	9.2	95	0.00
21	ACRYLONITRILE	1.008	0.000	100.0#	0#	-6.52#
22	PENTANE	0.413	0.371	10.2	98	0.00
23	H TVHC as EQUIV PENTANE	7.476	6.535	12.6	92	0.00
24	IODOMETHANE	2.979	2.935	1.5	96	0.00
25	1,1-DICHLOROETHYLENE	1.261	1.115	11.6	89	0.00
26	CARBON DISULFIDE	3.048	3.183	-4.4	104	0.00
27	ETHANOL	0.640	0.542	15.3	93	0.00
28	ACETONITRILE	1.060	0.000	100.0#	0#	-5.98#
29	BROMOETHENE	1.172	1.131	3.5	96	0.00
30	METHYLENE CHLORIDE	1.210	1.031	14.8	91	0.00
31	3-CHLOROPROPENE	0.607	0.613	-1.0	97	0.00
32	FREON 113	2.072	1.855	10.5	87	0.00
33	TRANS-1,2-DICHLOROETHYLENE	1.184	1.165	1.6	97	0.00
34	TERTIARY BUTYL ALCOHOL	2.822	2.769	1.9	96	0.00
35	METHYL TERTIARY BUTYL ETHER	3.373	3.361	0.4	94	0.00
36	TETRAHYDROFURAN	0.585	0.611	-4.4	95	0.00
37	HEXANE	2.178	2.054	5.7	94	0.00
38	VINYL ACETATE	0.327	0.317	3.1	90	0.00
39	1,1-DICHLOROETHANE	2.292	2.200	4.0	94	0.00
40	METHYL ETHYL KETONE	0.600	0.603	-0.5	95	0.00
41	cis-1,2-DICHLOROETHYLENE	1.342	1.222	8.9	93	0.00
42	DI-ISOPROPYL ETHER	4.504	4.465	0.9	96	0.00

Initial Calibration Verification

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43		ETHYL ACETATE	0.388	0.384	1.0	98	0.00
44		METHYL ACRYLATE	2.282	0.000	100.0#	0#	-8.63#
45		CHLOROFORM	2.336	2.231	4.5	94	0.00
46		2,4-DIMETHYLPENTANE	2.580	2.555	1.0	96	0.00
47		1,1,1-TRICHLOROETHANE	2.326	2.249	3.3	94	0.00
48		CARBON TETRACHLORIDE	2.383	2.264	5.0	92	0.00
49		1,2-DICHLOROETHANE	1.350	1.354	-0.3	95	0.00
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	102	0.00
51		BENZENE	0.763	0.758	0.7	95	0.00
52		CYCLOHEXANE	0.385	0.357	7.3	95	0.00
53		2,3-DIMETHYLPENTANE	0.190	0.187	1.6	95	0.00
54		TRICHLOROETHYLENE	0.297	0.284	4.4	93	0.00
55		DIBROMOMETHANE	0.270	0.000	100.0#	0#	-10.73#
56		1,2-DICHLOROPROPANE	0.287	0.278	3.1	95	0.00
57		ETHYL ACRYLATE	0.497	0.000	100.0#	0#	-10.72#
58		BROMODICHLOROMETHANE	0.471	0.469	0.4	94	0.00
59		2,2,4-TRIMETHYLPENTANE	1.312	1.325	-1.0	96	0.00
60		1,4-DIOXANE	0.155	0.154	0.6	94	0.00
61		METHYL METHACRYLATE	0.260	0.256	1.5	93	0.00
62		HEPTANE	0.491	0.465	5.3	95	0.00
63	H	TVHC as EQUIV HEPTANE	2.134	2.004	6.1	94	0.00
64		METHYL ISOBUTYL KETONE	0.527	0.522	0.9	96	0.00
65		cis-1,3-DICHLOROPROPENE	0.382	0.383	-0.3	95	0.00
66		TOLUENE	0.512	0.517	-1.0	95	0.00
67		trans-1,3-DICHLOROPROPENE	0.355	0.363	-2.3	96	0.00
68		1,1,2-TRICHLOROETHANE	0.222	0.228	-2.7	94	0.00
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00
70		ETHYL METHACRYLATE	0.770	0.000	100.0#	0#	-12.99#
71		2-HEXANONE	0.989	0.970	1.9	95	0.00
72		TETRACHLOROETHYLENE	0.666	0.641	3.8	93	0.00
73		DIBROMOCHLOROMETHANE	0.897	0.935	-4.2	95	0.00
74		1,2-DIBROMOETHANE	0.746	0.775	-3.9	95	0.00
75		OCTANE	1.267	1.274	-0.6	96	0.00
76		1,1,1,2-TETRACHLOROETHANE	0.662	0.702	-6.0	97	0.00
77		CHLOROBENZENE	1.233	1.265	-2.6	96	0.00
78		ETHYLBENZENE	1.987	2.145	-8.0	98	0.00
79		m,p-XYLENE	0.771	0.833	-8.0	97	0.00
80		o-XYLENE	0.745	0.804	-7.9	97	0.00
81		STYRENE	1.056	1.182	-11.9	96	0.00
82		1,2,3-TRICHLOROPROPANE	0.727	0.778	-7.0	100	0.00
83		NONANE	1.102	1.202	-9.1	99	0.00
84		BROMOFORM	0.769	0.832	-8.2	95	0.00
85	S	4-BROMOFLUOROBENZENE	1.081	1.134	-4.9	99	0.00
86		1,1,2,2-TETRACHLOROETHANE	0.873	0.983	-12.6	101	0.00
87		ISOPROPYLBENZENE	2.096	2.301	-9.8	97	0.00
88		BROMOBENZENE	0.548	0.000	100.0#	0#	-16.45#
89		2-CHLOROTOLUENE	0.468	0.516	-10.3	99	0.00
90		n-PROPYLBENZENE	0.517	0.593	-14.7	98	0.00
91		4-ETHYLTOLUENE	1.743	2.027	-16.3	98	0.00
92		1,3,5-TRIMETHYLBENZENE	1.441	1.634	-13.4	100	0.00
93		ALPHA-METHYLSTYRENE	0.641	0.000	100.0#	0#	-17.34#
94		TERT-BUTYLBENZENE	0.380	0.424	-11.6	99	0.00
95		1,2,4-TRIMETHYLBENZENE	1.321	1.548	-17.2	101	0.00
96		m-DICHLOROBENZENE	0.782	0.912	-16.6	100	0.00
97		BENZYL CHLORIDE	0.932	1.120	-20.2	102	0.00
98		p-DICHLOROBENZENE	0.771	0.868	-12.6	101	0.00
99		SEC-BUTYLBENZENE	0.410	0.483	-17.8	99	0.00
100		p-ISOPROPYLTOLUENE	0.390	0.472	-21.0	100	0.00

Initial Calibration Verification

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1323-ICV1322
Lab FileID: W32368.D

101	o-DICHLOROBENZENE	0.704	0.800	-13.6	103	0.00
102	n-BUTYLBENZENE	0.321	0.366	-14.0	102	0.00
103	HEXACHLOROETHANE	0.425	0.000	100.0#	0#	-19.04#
104	HEXACHLOROBUTADIENE	0.246	0.290	-17.9	119	0.00
105	1,2,4-TRICHLOROBENZENE	0.169	0.180	-6.5	117	0.00
106 I	Chlorobenzene-d5(a)	1.000	1.000	0.0	101	0.00
107	NAPHTHALENE	0.299	0.000	100.0#	0#	-20.35#

(#) = Out of Range
W32352.D MW1322.M

SPCC's out = 0 CCC's out = 0
Wed Jun 22 15:01:39 2011 MSW

Continuing Calibration Summary

Page 1 of 3

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1324-CC1322
Lab FileID: W32386.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W32386.D Vial: 2
 Acq On : 23 Jun 2011 9:03 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I BROMOCHLOROMETHANE	1.000	1.000	0.0	103	0.00
2	FREON 115	0.000	0.000	0.0	0#	-5.02#
3	FREON 152A	0.000	0.000	0.0	0#	-4.85#
4	CHLORODIFLUOROMETHANE	0.292	0.289	1.0	102	0.01
5	DICHLORODIFLUOROMETHANE	2.938	2.898	1.4	101	0.00
6	PROPYLENE	1.250	1.214	2.9	109	0.00
7	FREON 114	3.443	3.424	0.6	99	0.00
8	CHLOROMETHANE	0.380	0.384	-1.1	106	0.00
9	VINYL CHLORIDE	1.317	1.353	-2.7	104	0.00
10	1,3-BUTADIENE	1.103	1.096	0.6	102	0.00
11	n-BUTANE	2.182	2.279	-4.4	107	0.00
12	BROMOMETHANE	1.128	1.110	1.6	98	0.00
13	CHLOROETHANE	0.755	0.772	-2.3	102	0.00
14	DICHLOROFLUOROMETHANE	2.679	2.702	-0.9	101	0.00
15	ACROLEIN	0.540	0.545	-0.9	104	0.00
16	FREON 123	2.871	2.855	0.6	98	0.00
17	FREON 123A	1.717	1.641	4.4	94	0.00
18	TRICHLOROFLUOROMETHANE	2.805	2.716	3.2	99	0.00
19	ISOPROPYL ALCOHOL	2.437	2.447	-0.4	104	0.00
20	ACETONE	0.640	0.649	-1.4	106	0.00
21	ACRYLONITRILE	1.008	1.050	-4.2	103	0.00
22	PENTANE	0.413	0.388	6.1	102	0.00
23	H TVHC as EQUIV PENTANE	7.476	7.162	4.2	101	0.00
24	IODOMETHANE	2.979	2.852	4.3	93	0.00
25	1,1-DICHLOROETHYLENE	1.261	1.197	5.1	96	0.00
26	CARBON DISULFIDE	3.048	2.954	3.1	97	0.00
27	ETHANOL	0.640	0.610	4.7	105	0.00
28	ACETONITRILE	1.060	1.123	-5.9	108	0.00
29	BROMOETHENE	1.172	1.137	3.0	96	0.00
30	METHYLENE CHLORIDE	1.210	1.129	6.7	100	0.00
31	3-CHLOROPROPENE	0.607	0.619	-2.0	98	0.00
32	FREON 113	2.072	1.972	4.8	93	0.00
33	TRANS-1,2-DICHLOROETHYLENE	1.184	1.133	4.3	95	0.00
34	TERTIARY BUTYL ALCOHOL	2.822	2.855	-1.2	99	0.00
35	METHYL TERTIARY BUTYL ETHER	3.373	3.447	-2.2	97	0.00
36	TETRAHYDROFURAN	0.585	0.618	-5.6	96	0.00
37	HEXANE	2.178	2.195	-0.8	100	0.00
38	VINYL ACETATE	0.327	0.339	-3.7	96	0.00
39	1,1-DICHLOROETHANE	2.292	2.335	-1.9	99	0.00
40	METHYL ETHYL KETONE	0.600	0.602	-0.3	95	0.00
41	cis-1,2-DICHLOROETHYLENE	1.342	1.249	6.9	95	0.00
42	DI-ISOPROPYL ETHER	4.504	4.704	-4.4	101	0.00

Continuing Calibration Summary

Page 2 of 3

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1324-CC1322
Lab FileID: W32386.D

43		ETHYL ACETATE	0.388	0.387	0.3	99	0.00
44		METHYL ACRYLATE	2.282	2.390	-4.7	100	0.00
45		CHLOROFORM	2.336	2.319	0.7	97	0.00
46		2,4-DIMETHYLPENTANE	2.580	2.646	-2.6	99	0.00
47		1,1,1-TRICHLOROETHANE	2.326	2.289	1.6	95	0.00
48		CARBON TETRACHLORIDE	2.383	2.337	1.9	95	0.00
49		1,2-DICHLOROETHANE	1.350	1.398	-3.6	98	0.00
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	103	0.00
51		BENZENE	0.763	0.763	0.0	96	0.00
52		CYCLOHEXANE	0.385	0.354	8.1	95	0.00
53		2,3-DIMETHYLPENTANE	0.190	0.191	-0.5	98	0.00
54		TRICHLOROETHYLENE	0.297	0.293	1.3	96	0.00
55		DIBROMOMETHANE	0.270	0.256	5.2	92	0.00
56		1,2-DICHLOROPROPANE	0.287	0.289	-0.7	100	0.00
57		ETHYL ACRYLATE	0.497	0.505	-1.6	94	0.00
58		BROMODICHLOROMETHANE	0.471	0.471	0.0	95	0.00
59		2,2,4-TRIMETHYLPENTANE	1.312	1.365	-4.0	100	0.00
60		1,4-DIOXANE	0.155	0.149	3.9	92	0.00
61		METHYL METHACRYLATE	0.260	0.260	0.0	95	0.00
62		HEPTANE	0.491	0.486	1.0	100	0.00
63	H	TVHC as EQUIV HEPTANE	2.134	2.072	2.9	98	0.00
64		METHYL ISOBUTYL KETONE	0.527	0.514	2.5	95	0.00
65		cis-1,3-DICHLOROPROPENE	0.382	0.384	-0.5	96	0.00
66		TOLUENE	0.512	0.509	0.6	95	0.00
67		trans-1,3-DICHLOROPROPENE	0.355	0.360	-1.4	96	0.00
68		1,1,2-TRICHLOROETHANE	0.222	0.228	-2.7	95	0.00
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	104	0.00
70		ETHYL METHACRYLATE	0.770	0.780	-1.3	92	0.00
71		2-HEXANONE	0.989	0.938	5.2	94	0.00
72		TETRACHLOROETHYLENE	0.666	0.609	8.6	91	0.00
73		DIBROMOCHLOROMETHANE	0.897	0.892	0.6	94	0.00
74		1,2-DIBROMOETHANE	0.746	0.738	1.1	93	0.00
75		OCTANE	1.267	1.278	-0.9	99	0.00
76		1,1,1,2-TETRACHLOROETHANE	0.662	0.665	-0.5	95	0.00
77		CHLOROBENZENE	1.233	1.202	2.5	94	0.00
78		ETHYLBENZENE	1.987	2.010	-1.2	94	0.00
79		m,p-XYLENE	0.771	0.784	-1.7	94	0.00
80		o-XYLENE	0.745	0.764	-2.6	95	0.00
81		STYRENE	1.056	1.105	-4.6	92	0.00
82		1,2,3-TRICHLOROPROPANE	0.727	0.739	-1.7	97	0.00
83		NONANE	1.102	1.196	-8.5	101	0.00
84		BROMOFORM	0.769	0.781	-1.6	92	0.00
85	S	4-BROMOFLUOROBENZENE	1.081	1.123	-3.9	101	0.00
86		1,1,2,2-TETRACHLOROETHANE	0.873	0.917	-5.0	97	0.00
87		ISOPROPYLBENZENE	2.096	2.169	-3.5	95	0.00
88		BROMOBENZENE	0.548	0.559	-2.0	92	0.00
89		2-CHLOROTOLUENE	0.468	0.474	-1.3	93	0.00
90		n-PROPYLBENZENE	0.517	0.555	-7.4	94	0.00
91		4-ETHYLTOLUENE	1.743	1.892	-8.5	95	0.00
92		1,3,5-TRIMETHYLBENZENE	1.441	1.503	-4.3	95	0.00
93		ALPHA-METHYLSTYRENE	0.641	0.672	-4.8	92	0.00
94		TERT-BUTYLBENZENE	0.380	0.392	-3.2	94	0.00
95		1,2,4-TRIMETHYLBENZENE	1.321	1.424	-7.8	95	0.00
96		m-DICHLOROBENZENE	0.782	0.810	-3.6	92	0.00
97		BENZYL CHLORIDE	0.932	0.988	-6.0	93	0.00
98		p-DICHLOROBENZENE	0.771	0.767	0.5	92	0.00
99		SEC-BUTYLBENZENE	0.410	0.449	-9.5	95	0.00
100		p-ISOPROPYLTOLUENE	0.390	0.432	-10.8	94	0.00

5.9.6

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Continuing Calibration Summary

Page 3 of 3

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1324-CC1322
Lab FileID: W32386.D

101	o-DICHLOROBENZENE	0.704	0.697	1.0	92	0.00
102	n-BUTYLBENZENE	0.321	0.321	0.0	93	0.00
103	HEXACHLOROETHANE	0.425	0.444	-4.5	92	0.00
104	HEXACHLOROBUTADIENE	0.246	0.219	11.0	93	0.00
105	1,2,4-TRICHLOROBENZENE	0.169	0.132	21.9	88	0.00
106 I	Chlorobenzene-d5(a)	1.000	1.000	0.0	103	0.00
107	NAPHTHALENE	0.299	0.242	19.1	87	0.00

(#) = Out of Range
W32352.D MW1322.M

SPCC's out = 0 CCC's out = 0
Fri Jun 24 11:00:21 2011 MSW

Continuing Calibration Summary

Page 1 of 3

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1341-CC1322
Lab FileID: W32800.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W32800.D Vial: 2
Acq On : 20 Jul 2011 8:11 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	113	-0.02
2	FREON 115	0.000	0.000	0.0	0#	-5.02#
3	FREON 152A	0.000	0.000	0.0	0#	-4.85#
4	CHLORODIFLUOROMETHANE	0.292	0.244	16.4	94	0.00
5	DICHLORODIFLUOROMETHANE	2.938	2.603	11.4	98	0.00
6	PROPYLENE	1.250	1.124	10.1	110	0.00
7	FREON 114	3.443	3.281	4.7	103	0.00
8	CHLOROMETHANE	0.380	0.389	-2.4	118	0.00
9	VINYL CHLORIDE	1.317	1.394	-5.8	117	0.00
10	1,3-BUTADIENE	1.103	1.136	-3.0	116	0.00
11	n-BUTANE	2.182	2.436	-11.6	125	0.00
12	BROMOMETHANE	1.128	1.115	1.2	107	0.00
13	CHLOROETHANE	0.755	0.795	-5.3	115	-0.01
14	DICHLOROFLUOROMETHANE	2.679	2.634	1.7	107	0.00
15	ACROLEIN	0.540	0.528	2.2	109	-0.01
16	FREON 123	2.871	2.941	-2.4	110	-0.01
17	FREON 123A	1.717	1.596	7.0	100	-0.01
18	TRICHLOROFLUOROMETHANE	2.805	2.613	6.8	104	-0.01
19	ISOPROPYL ALCOHOL	2.437	2.544	-4.4	118	-0.01
20	ACETONE	0.640	0.646	-0.9	115	-0.01
21	ACRYLONITRILE	1.008	1.039	-3.1	111	-0.02
22	PENTANE	0.413	0.412	0.2	118	-0.01
23 H	TVHC as EQUIV PENTANE	7.476	7.629	-2.0	117	-0.02
24	IODOMETHANE	2.979	2.837	4.8	101	-0.01
25	1,1-DICHLOROETHYLENE	1.261	1.276	-1.2	111	-0.01
26	CARBON DISULFIDE	3.048	3.132	-2.8	112	-0.01
27	ETHANOL	0.640	0.640	0.0	120	0.00
28	ACETONITRILE	1.060	1.106	-4.3	116	-0.01
29	BROMOETHENE	1.172	1.137	3.0	105	-0.01
30	METHYLENE CHLORIDE	1.210	1.180	2.5	114	-0.02
31	3-CHLOROPROPENE	0.607	0.621	-2.3	107	-0.02
32	FREON 113	2.072	1.812	12.5	93	-0.01
33	TRANS-1,2-DICHLOROETHYLENE	1.184	1.142	3.5	104	-0.02
34	TERTIARY BUTYL ALCOHOL	2.822	2.939	-4.1	111	-0.01
35	METHYL TERTIARY BUTYL ETHER	3.373	3.020	10.5	92	-0.02
36	TETRAHYDROFURAN	0.585	0.568	2.9	96	-0.02
37	HEXANE	2.178	2.363	-8.5	118	-0.02
38	VINYL ACETATE	0.327	0.309	5.5	96	-0.02
39	1,1-DICHLOROETHANE	2.292	2.365	-3.2	110	-0.02
40	METHYL ETHYL KETONE	0.600	0.577	3.8	99	-0.02
41	cis-1,2-DICHLOROETHYLENE	1.342	1.252	6.7	104	-0.02
42	DI-ISOPROPYL ETHER	4.504	4.608	-2.3	108	-0.02

Continuing Calibration Summary

Page 2 of 3

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1341-CC1322
Lab FileID: W32800.D

43		ETHYL ACETATE	0.388	0.377	2.8	105	-0.02
44		METHYL ACRYLATE	2.282	2.289	-0.3	104	-0.02
45		CHLOROFORM	2.336	2.259	3.3	103	-0.02
46		2,4-DIMETHYLPENTANE	2.580	2.732	-5.9	111	-0.02
47		1,1,1-TRICHLOROETHANE	2.326	2.092	10.1	95	-0.02
48		CARBON TETRACHLORIDE	2.383	2.079	12.8	92	-0.03
49		1,2-DICHLOROETHANE	1.350	1.297	3.9	100	-0.02
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	106	-0.02
51		BENZENE	0.763	0.796	-4.3	103	-0.03
52		CYCLOHEXANE	0.385	0.370	3.9	102	-0.03
53		2,3-DIMETHYLPENTANE	0.190	0.202	-6.3	107	-0.02
54		TRICHLOROETHYLENE	0.297	0.303	-2.0	102	-0.02
55		DIBROMOMETHANE	0.270	0.252	6.7	93	-0.02
56		1,2-DICHLOROPROPANE	0.287	0.302	-5.2	107	-0.03
57		ETHYL ACRYLATE	0.497	0.521	-4.8	100	-0.02
58		BROMODICHLOROMETHANE	0.471	0.477	-1.3	99	-0.02
59		2,2,4-TRIMETHYLPENTANE	1.312	1.507	-14.9	113	-0.03
60		1,4-DIOXANE	0.155	0.155	0.0	98	-0.02
61		METHYL METHACRYLATE	0.260	0.251	3.5	94	-0.03
62		HEPTANE	0.491	0.553	-12.6	117	-0.03
63	H	TVHC as EQUIV HEPTANE	2.134	2.257	-5.8	109	-0.03
64		METHYL ISOBUTYL KETONE	0.527	0.567	-7.6	107	-0.03
65		cis-1,3-DICHLOROPROPENE	0.382	0.374	2.1	96	-0.02
66		TOLUENE	0.512	0.491	4.1	94	-0.02
67		trans-1,3-DICHLOROPROPENE	0.355	0.333	6.2	91	-0.03
68		1,1,2-TRICHLOROETHANE	0.222	0.226	-1.8	97	-0.02
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	104	-0.03
70		ETHYL METHACRYLATE	0.770	0.817	-6.1	97	-0.03
71		2-HEXANONE	0.989	1.072	-8.4	108	-0.02
72		TETRACHLOROETHYLENE	0.666	0.611	8.3	91	-0.03
73		DIBROMOCHLOROMETHANE	0.897	0.838	6.6	88	-0.03
74		1,2-DIBROMOETHANE	0.746	0.706	5.4	89	-0.03
75		OCTANE	1.267	1.419	-12.0	111	-0.03
76		1,1,1,2-TETRACHLOROETHANE	0.662	0.603	8.9	86	-0.03
77		CHLOROBENZENE	1.233	1.135	7.9	89	-0.03
78		ETHYLBENZENE	1.987	1.897	4.5	90	-0.02
79		m,p-XYLENE	0.771	0.731	5.2	88	-0.02
80		o-XYLENE	0.745	0.701	5.9	88	-0.03
81		STYRENE	1.056	1.010	4.4	85	-0.02
82		1,2,3-TRICHLOROPROPANE	0.727	0.664	8.7	88	-0.03
83		NONANE	1.102	1.213	-10.1	103	-0.03
84		BROMOFORM	0.769	0.701	8.8	83	-0.02
85	S	4-BROMOFLUOROBENZENE	1.081	1.004	7.1	91	-0.03
86		1,1,2,2-TETRACHLOROETHANE	0.873	0.884	-1.3	94	-0.03
87		ISOPROPYLBENZENE	2.096	1.926	8.1	84	-0.03
88		BROMOBENZENE	0.548	0.501	8.6	83	-0.03
89		2-CHLOROTOLUENE	0.468	0.422	9.8	84	-0.02
90		n-PROPYLBENZENE	0.517	0.480	7.2	82	-0.03
91		4-ETHYLTOLUENE	1.743	1.626	6.7	82	-0.03
92		1,3,5-TRIMETHYLBENZENE	1.441	1.263	12.4	80	-0.02
93		ALPHA-METHYLSTYRENE	0.641	0.575	10.3	79	-0.03
94		TERT-BUTYLBENZENE	0.380	0.325	14.5	78	-0.02
95		1,2,4-TRIMETHYLBENZENE	1.321	1.194	9.6	80	-0.02
96		m-DICHLOROBENZENE	0.782	0.703	10.1	80	-0.02
97		BENZYL CHLORIDE	0.932	0.871	6.5	82	-0.02
98		p-DICHLOROBENZENE	0.771	0.678	12.1	81	-0.02
99		SEC-BUTYLBENZENE	0.410	0.369	10.0	78	-0.02
100		p-ISOPROPYLTOLUENE	0.390	0.354	9.2	78	-0.03

5.9.7

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Continuing Calibration Summary

Page 3 of 3

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1341-CC1322
Lab FileID: W32800.D

101	o-DICHLOROBENZENE	0.704	0.605	14.1	80	-0.02
102	n-BUTYLBENZENE	0.321	0.270	15.9	78	-0.02
103	HEXACHLOROETHANE	0.425	0.378	11.1	79	-0.02
104	HEXACHLOROBUTADIENE	0.246	0.187	24.0	79	-0.02
105	1,2,4-TRICHLOROBENZENE	0.169	0.141	16.6	95	-0.02
106 I	Chlorobenzene-d5(a)	1.000	1.000	0.0	104	-0.03
107	NAPHTHALENE	0.299	0.277	7.4	100	-0.02

(#) = Out of Range
W32352.D MW1322.M

SPCC's out = 0 CCC's out = 0
Thu Jul 21 10:49:22 2011 MSW

Continuing Calibration Summary

Page 1 of 3

Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1342-CC1322
Lab FileID: W32829.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W32829.D Vial: 2
 Acq On : 21 Jul 2011 9:18 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I BROMOCHLOROMETHANE	1.000	1.000	0.0	105	-0.02
2	FREON 115	0.000	0.000	0.0	0#	-5.02#
3	FREON 152A	0.000	0.000	0.0	0#	-4.85#
4	CHLORODIFLUOROMETHANE	0.292	0.255	12.7	92	0.00
5	DICHLORODIFLUOROMETHANE	2.938	2.632	10.4	93	0.00
6	PROPYLENE	1.250	1.156	7.5	105	0.00
7	FREON 114	3.443	3.316	3.7	97	0.00
8	CHLOROMETHANE	0.380	0.396	-4.2	112	0.00
9	VINYL CHLORIDE	1.317	1.396	-6.0	109	0.00
10	1,3-BUTADIENE	1.103	1.150	-4.3	109	0.00
11	n-BUTANE	2.182	2.452	-12.4	117	0.00
12	BROMOMETHANE	1.128	1.114	1.2	100	0.00
13	CHLOROETHANE	0.755	0.801	-6.1	107	-0.01
14	DICHLOROFLUOROMETHANE	2.679	2.679	0.0	102	0.00
15	ACROLEIN	0.540	0.555	-2.8	107	-0.01
16	FREON 123	2.871	2.942	-2.5	103	-0.01
17	FREON 123A	1.717	1.596	7.0	93	-0.01
18	TRICHLOROFLUOROMETHANE	2.805	2.657	5.3	98	-0.01
19	ISOPROPYL ALCOHOL	2.437	2.606	-6.9	112	0.00
20	ACETONE	0.640	0.680	-6.3	113	-0.01
21	ACRYLONITRILE	1.008	1.098	-8.9	109	-0.01
22	PENTANE	0.413	0.420	-1.7	112	-0.01
23	H TVHC as EQUIV PENTANE	7.476	7.901	-5.7	113	-0.01
24	IODOMETHANE	2.979	2.820	5.3	93	-0.01
25	1,1-DICHLOROETHYLENE	1.261	1.261	0.0	102	-0.02
26	CARBON DISULFIDE	3.048	3.093	-1.5	103	-0.01
27	ETHANOL	0.640	0.675	-5.5	118	0.00
28	ACETONITRILE	1.060	1.187	-12.0	115	0.00
29	BROMOETHENE	1.172	1.130	3.6	97	-0.01
30	METHYLENE CHLORIDE	1.210	1.167	3.6	105	-0.02
31	3-CHLOROPROPENE	0.607	0.624	-2.8	100	-0.01
32	FREON 113	2.072	1.806	12.8	86	-0.01
33	TRANS-1,2-DICHLOROETHYLENE	1.184	1.145	3.3	97	-0.02
34	TERTIARY BUTYL ALCOHOL	2.822	2.965	-5.1	104	0.00
35	METHYL TERTIARY BUTYL ETHER	3.373	3.198	5.2	91	-0.02
36	TETRAHYDROFURAN	0.585	0.602	-2.9	95	-0.02
37	HEXANE	2.178	2.403	-10.3	111	-0.02
38	VINYL ACETATE	0.327	0.325	0.6	94	-0.02
39	1,1-DICHLOROETHANE	2.292	2.387	-4.1	103	-0.02
40	METHYL ETHYL KETONE	0.600	0.599	0.2	95	-0.02
41	cis-1,2-DICHLOROETHYLENE	1.342	1.258	6.3	97	-0.02
42	DI-ISOPROPYL ETHER	4.504	4.929	-9.4	107	-0.02

Continuing Calibration Summary

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Job Number: JA81330
Account: RAVIV TRC
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Sample: VW1342-CC1322
Lab FileID: W32829.D

43		ETHYL ACETATE	0.388	0.399	-2.8	103	-0.02
44		METHYL ACRYLATE	2.282	2.470	-8.2	104	-0.02
45		CHLOROFORM	2.336	2.306	1.3	98	-0.02
46		2,4-DIMETHYLPENTANE	2.580	2.794	-8.3	106	-0.02
47		1,1,1-TRICHLOROETHANE	2.326	2.175	6.5	92	-0.02
48		CARBON TETRACHLORIDE	2.383	2.155	9.6	89	-0.03
49		1,2-DICHLOROETHANE	1.350	1.352	-0.1	97	-0.02
50	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	-0.02
51		BENZENE	0.763	0.816	-6.9	100	-0.03
52		CYCLOHEXANE	0.385	0.372	3.4	97	-0.03
53		2,3-DIMETHYLPENTANE	0.190	0.204	-7.4	102	-0.02
54		TRICHLOROETHYLENE	0.297	0.305	-2.7	98	-0.02
55		DIBROMOMETHANE	0.270	0.254	5.9	89	-0.02
56		1,2-DICHLOROPROPANE	0.287	0.315	-9.8	106	-0.03
57		ETHYL ACRYLATE	0.497	0.546	-9.9	99	-0.02
58		BROMODICHLOROMETHANE	0.471	0.488	-3.6	96	-0.02
59		2,2,4-TRIMETHYLPENTANE	1.312	1.525	-16.2	108	-0.03
60		1,4-DIOXANE	0.155	0.153	1.3	91	-0.02
61		METHYL METHACRYLATE	0.260	0.267	-2.7	95	-0.02
62		HEPTANE	0.491	0.561	-14.3	113	-0.03
63	H	TVHC as EQUIV HEPTANE	2.134	2.260	-5.9	104	-0.03
64		METHYL ISOBUTYL KETONE	0.527	0.579	-9.9	104	-0.02
65		cis-1,3-DICHLOROPROPENE	0.382	0.389	-1.8	95	-0.02
66		TOLUENE	0.512	0.515	-0.6	93	-0.02
67		trans-1,3-DICHLOROPROPENE	0.355	0.351	1.1	91	-0.03
68		1,1,2-TRICHLOROETHANE	0.222	0.234	-5.4	95	-0.02
69	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	-0.03
70		ETHYL METHACRYLATE	0.770	0.818	-6.2	94	-0.03
71		2-HEXANONE	0.989	1.065	-7.7	104	-0.02
72		TETRACHLOROETHYLENE	0.666	0.602	9.6	87	-0.03
73		DIBROMOCHLOROMETHANE	0.897	0.854	4.8	87	-0.03
74		1,2-DIBROMOETHANE	0.746	0.719	3.6	88	-0.02
75		OCTANE	1.267	1.455	-14.8	110	-0.03
76		1,1,1,2-TETRACHLOROETHANE	0.662	0.626	5.4	87	-0.02
77		CHLOROBENZENE	1.233	1.166	5.4	89	-0.03
78		ETHYLBENZENE	1.987	1.971	0.8	90	-0.02
79		m,p-XYLENE	0.771	0.758	1.7	88	-0.02
80		o-XYLENE	0.745	0.731	1.9	88	-0.03
81		STYRENE	1.056	1.054	0.2	85	-0.02
82		1,2,3-TRICHLOROPROPANE	0.727	0.702	3.4	90	-0.03
83		NONANE	1.102	1.283	-16.4	105	-0.03
84		BROMOFORM	0.769	0.711	7.5	82	-0.02
85	S	4-BROMOFLUOROBENZENE	1.081	0.988	8.6	86	-0.03
86		1,1,2,2-TETRACHLOROETHANE	0.873	0.929	-6.4	95	-0.03
87		ISOPROPYLBENZENE	2.096	2.017	3.8	85	-0.03
88		BROMOBENZENE	0.548	0.513	6.4	82	-0.03
89		2-CHLOROTOLUENE	0.468	0.435	7.1	83	-0.02
90		n-PROPYLBENZENE	0.517	0.506	2.1	84	-0.03
91		4-ETHYLTOLUENE	1.743	1.732	0.6	84	-0.03
92		1,3,5-TRIMETHYLBENZENE	1.441	1.346	6.6	82	-0.02
93		ALPHA-METHYLSTYRENE	0.641	0.606	5.5	80	-0.03
94		TERT-BUTYLBENZENE	0.380	0.348	8.4	81	-0.02
95		1,2,4-TRIMETHYLBENZENE	1.321	1.267	4.1	82	-0.02
96		m-DICHLOROBENZENE	0.782	0.725	7.3	80	-0.02
97		BENZYL CHLORIDE	0.932	0.904	3.0	83	-0.02
98		p-DICHLOROBENZENE	0.771	0.699	9.3	81	-0.03
99		SEC-BUTYLBENZENE	0.410	0.389	5.1	80	-0.03
100		p-ISOPROPYLTOLUENE	0.390	0.375	3.8	79	-0.03

Continuing Calibration Summary

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Job Number: JA81330
Account: RAVIV TRC
Project: Lockheed Electronics Co, Watchung, NJ

Sample: VW1342-CC1322
Lab FileID: W32829.D

101	o-DICHLOROBENZENE	0.704	0.628	10.8	80	-0.02
102	n-BUTYLBENZENE	0.321	0.277	13.7	78	-0.02
103	HEXACHLOROETHANE	0.425	0.384	9.6	77	-0.02
104	HEXACHLOROBUTADIENE	0.246	0.193	21.5	79	-0.02
105	1,2,4-TRICHLOROBENZENE	0.169	0.127	24.9	83	-0.02
106 I	Chlorobenzene-d5(a)	1.000	1.000	0.0	101	-0.03
107	NAPHTHALENE	0.299	0.252	15.7	88	-0.02

(#) = Out of Range
W32352.D MW1322.M

SPCC's out = 0 CCC's out = 0
Fri Jul 22 09:35:15 2011 MSW

GC/MS Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32807.D
 Acq On : 20 Jul 2011 2:05 pm
 Operator : YOUMINH
 Sample : JA81330-1
 Misc : MS15514,VW1341,400,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 00:24:35 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

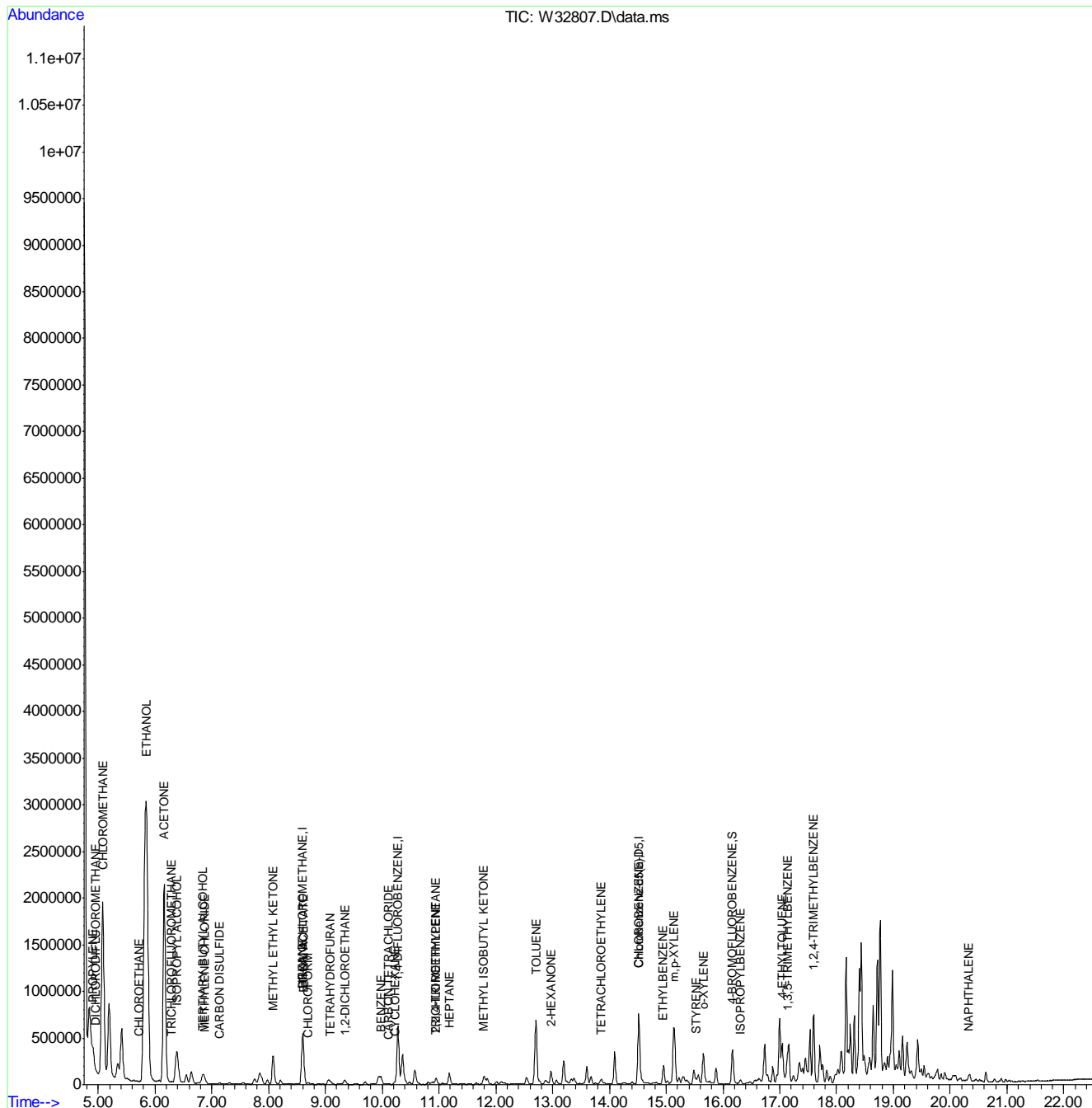
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.598	128	153068	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	768434	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	332231	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	329934	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	180689	5.03	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	100.60%
Target Compounds						
					Qvalue	
5) DICHLORODIFLUOROMETHANE	4.959	85	21438	0.48	PPBV #	93
6) PROPYLENE	4.904	41	98403	5.14	PPBV	86
8) CHLOROMETHANE	5.087	52	5496	0.94	PPBV	93
13) CHLOROETHANE	5.721	64	1106	0.10	PPBV	82
18) TRICHLOROFLUOROMETHANE	6.294	101	15775	0.37	PPBV	99
19) ISOPROPYL ALCOHOL	6.385	45	862472	23.12	PPBV	99
20) ACETONE	6.160	58	1389510	141.89	PPBV #	82
26) CARBON DISULFIDE	7.135	76	12893	0.28	PPBV	93
27) ETHANOL	5.843	45	8533855	871.19	PPBV	98
30) METHYLENE CHLORIDE	6.867	84	4257	0.23	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.842	59	172656	4.00	PPBV #	73
36) TETRAHYDROFURAN	9.080	72	9354	1.05	PPBV #	15
37) HEXANE	8.598	57	44279	1.33	PPBV #	84
40) METHYL ETHYL KETONE	8.080	72	156686	17.07	PPBV #	73
43) ETHYL ACETATE	8.610	61	48299	8.13	PPBV #	1
45) CHLOROFORM	8.702	83	12598	0.35	PPBV	95
48) CARBON TETRACHLORIDE	10.116	117	4654	0.13	PPBV	98
49) 1,2-DICHLOROETHANE	9.342	62	5399	0.26	PPBV	95
51) BENZENE	9.976	78	90153	1.54	PPBV	99
52) CYCLOHEXANE	10.226	84	14888	0.50	PPBV	87
54) TRICHLOROETHYLENE	10.933	95	5147	0.23	PPBV	98
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	60177	0.60	PPBV	87
62) HEPTANE	11.183	43	71302	1.89	PPBV	94
64) METHYL ISOBUTYL KETONE	11.793	43	75587	1.87	PPBV	97
66) TOLUENE	12.707	92	416743	10.60	PPBV	98
71) 2-HEXANONE	12.969	43	116114	3.54	PPBV	98
72) TETRACHLOROETHYLENE	13.853	164	16482	0.75	PPBV	97
78) ETHYLBENZENE	14.951	91	209288	3.17	PPBV	98
79) m,p-XYLENE	15.133	106	328001	12.81	PPBV	94
80) o-XYLENE	15.658	106	133293	5.39	PPBV	95
81) STYRENE	15.536	104	16916	0.48	PPBV	96
87) ISOPROPYLBENZENE	16.310	105	41403	0.59	PPBV	98
91) 4-ETHYLTOLUENE	17.042	105	325982	5.63	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.133	105	171536	3.58	PPBV	98
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	531017	12.10	PPBV #	32
107) NAPHTHALENE	20.328	128	36399	3.68	PPBV	92

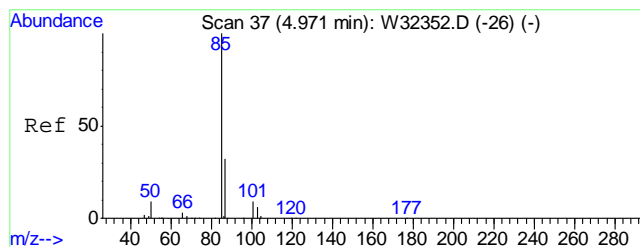
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\VW1341\
Data File   : W32807.D
Acq On      : 20 Jul 2011    2:05 pm
Operator    : YOUMINH
Sample      : JA81330-1
Misc        : MS15514,VW1341,400,,,,,1
ALS Vial    : 9      Sample Multiplier: 1
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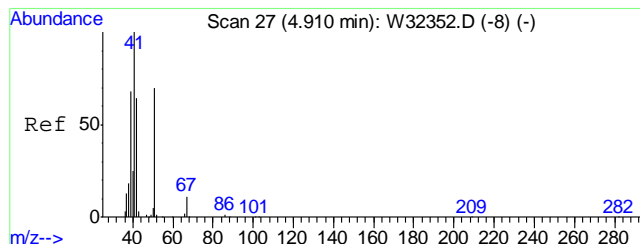
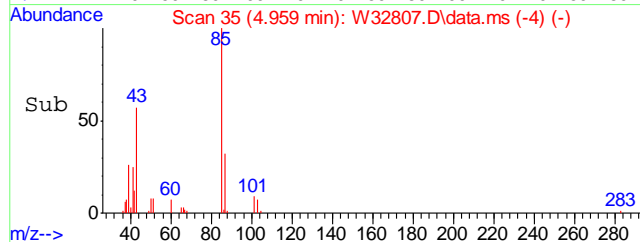
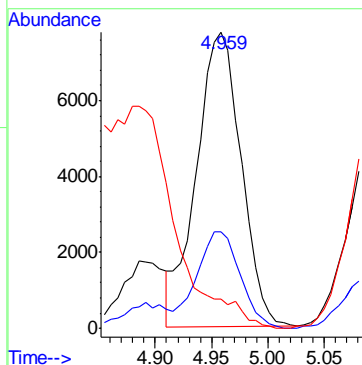
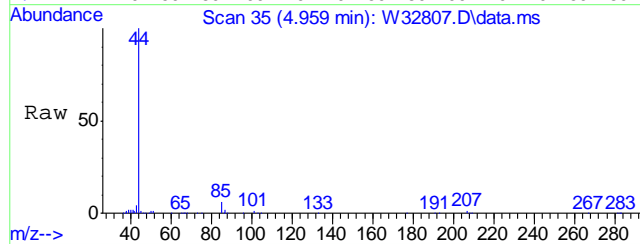
Quant Time: Aug 17 00:24:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





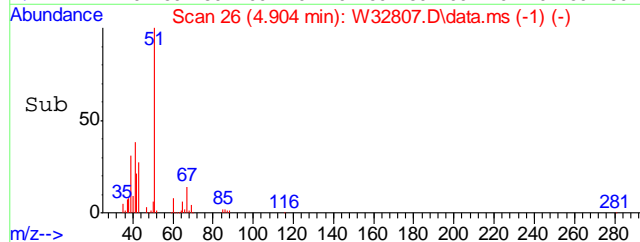
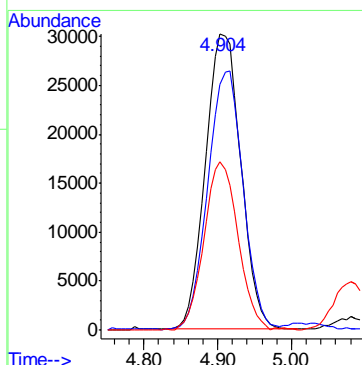
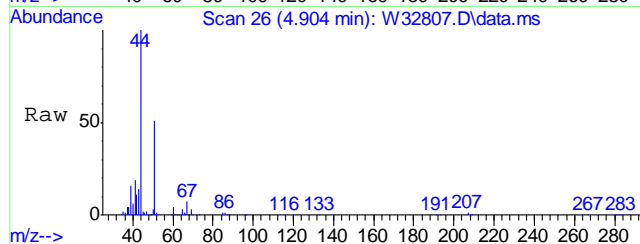
#5
DICHLORODIFLUOROMETHANE
Concen: 0.48 PPBV
RT: 4.959 min Scan# 35
Delta R.T. -0.012 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

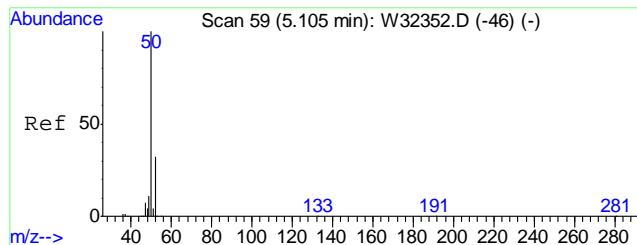
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.7	12.0	52.0
50	0.0	0.0	30.7



#6
PROPYLENE
Concen: 5.14 PPBV
RT: 4.904 min Scan# 26
Delta R.T. -0.006 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

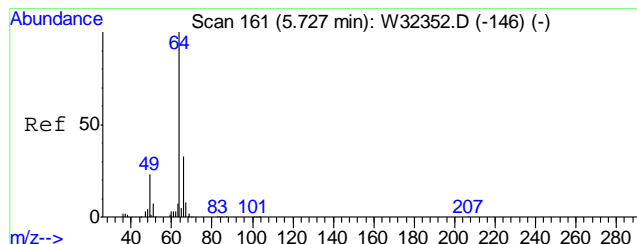
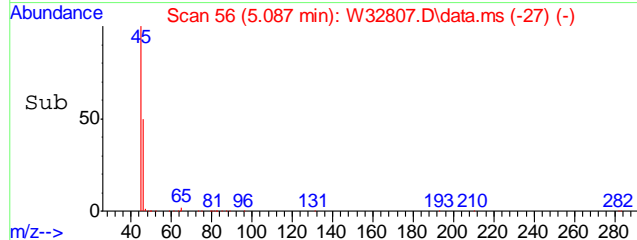
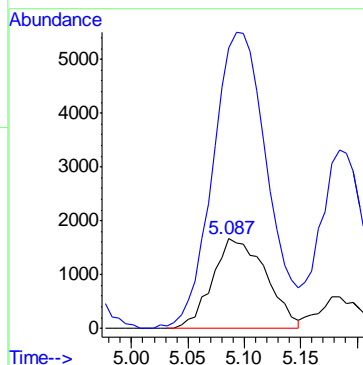
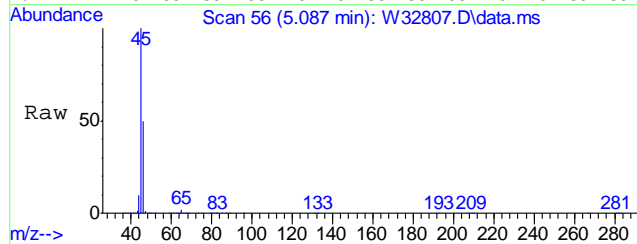
Tgt Ion	Ratio	Lower	Upper
41	100		
39	82.9	47.7	87.7
42	56.8	43.7	83.7





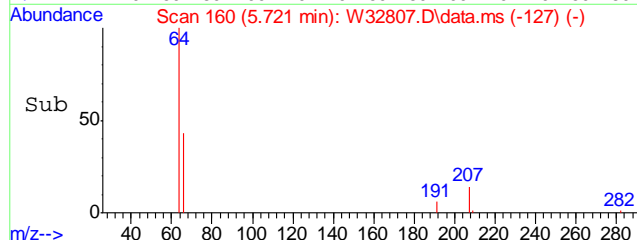
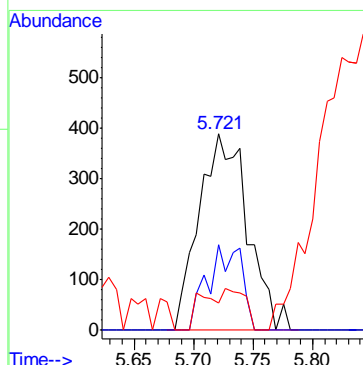
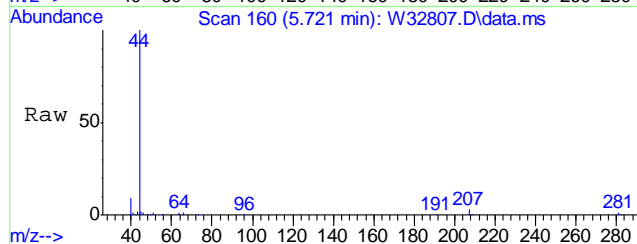
#8
CHLOROMETHANE
Concen: 0.94 PPBV
RT: 5.087 min Scan# 56
Delta R.T. -0.018 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

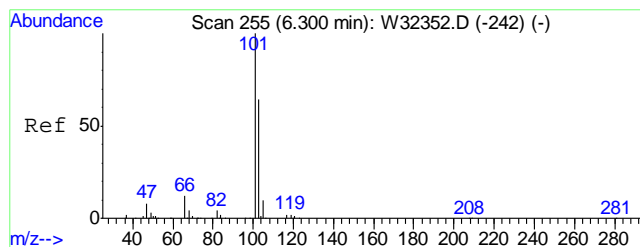
Tgt Ion: 52 Resp: 5496
Ion Ratio Lower Upper
52 100
50 301.8 268.6 308.6



#13
CHLOROETHANE
Concen: 0.10 PPBV
RT: 5.721 min Scan# 160
Delta R.T. -0.006 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

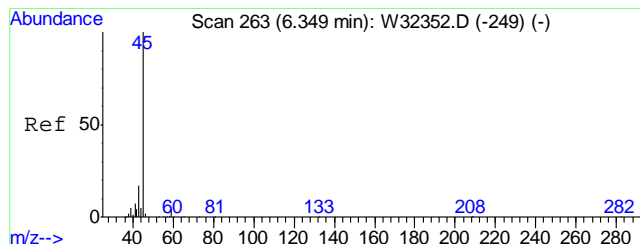
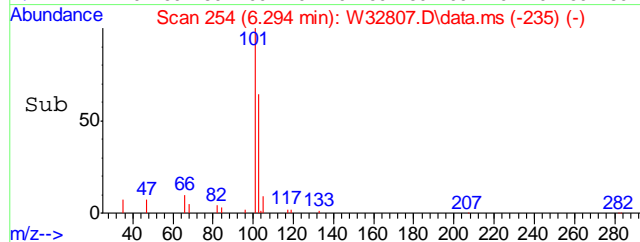
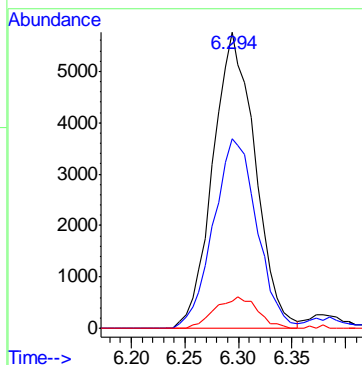
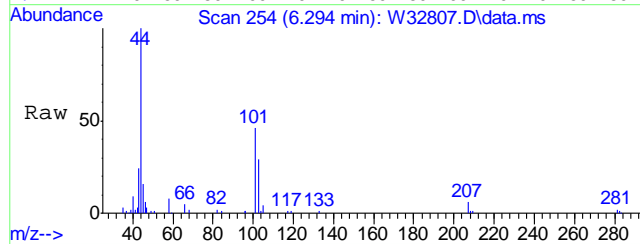
Tgt Ion: 64 Resp: 1106
Ion Ratio Lower Upper
64 100
66 30.2 14.5 54.5
49 9.9 5.7 45.7





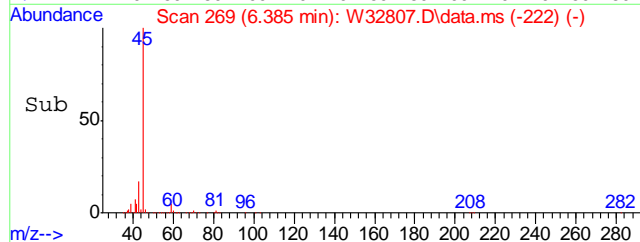
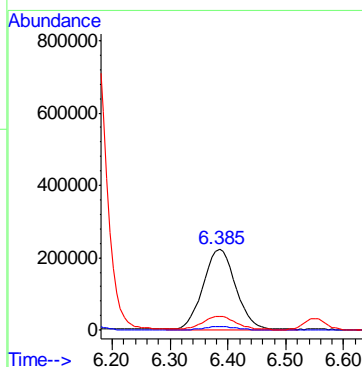
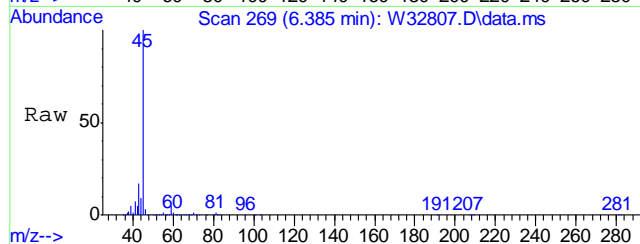
#18
TRICHLOROFLUOROMETHANE
Concen: 0.37 PPBV
RT: 6.294 min Scan# 254
Delta R.T. -0.006 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

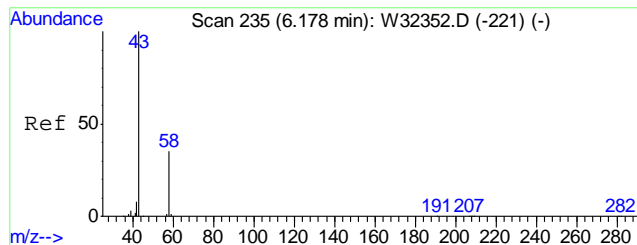
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.8	44.9	84.9
105	10.7	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 23.12 PPBV
RT: 6.385 min Scan# 269
Delta R.T. 0.037 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

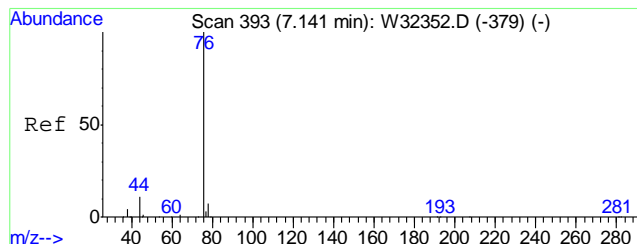
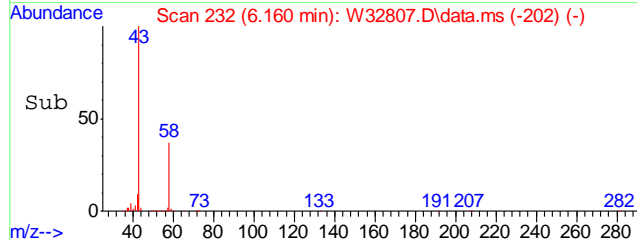
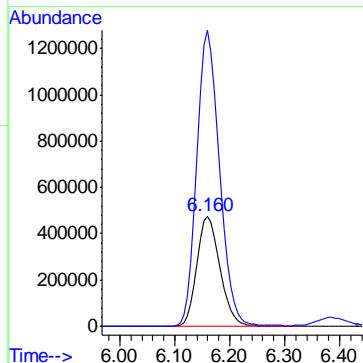
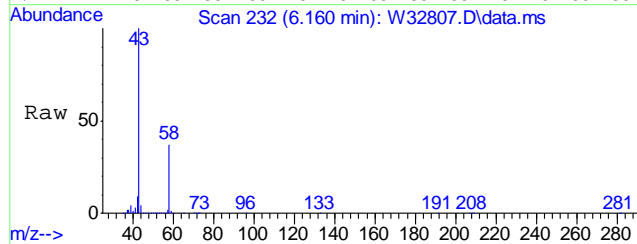
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.7	0.0	24.3
43	17.1	0.0	37.5





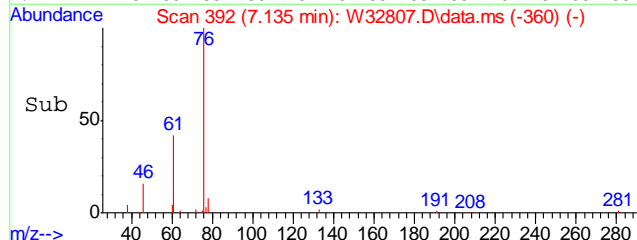
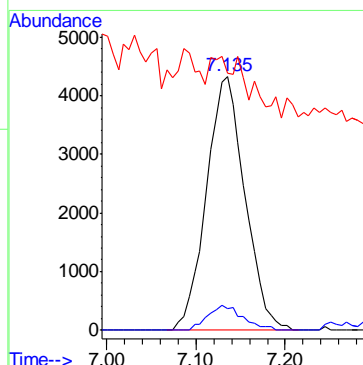
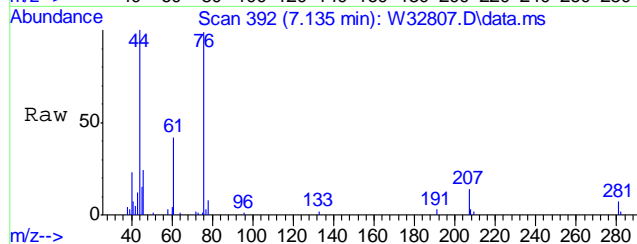
#20
 ACETONE
 Concen: 141.89 PPBV
 RT: 6.160 min Scan# 232
 Delta R.T. -0.018 min
 Lab File: W32807.D
 Acq: 20 Jul 2011 2:05 pm

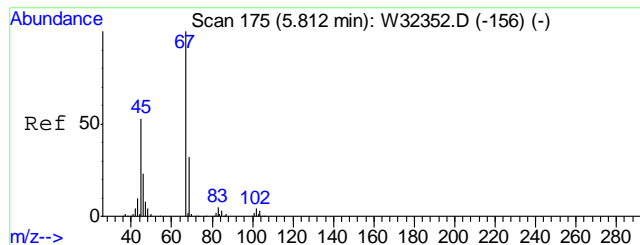
Tgt Ion: 58 Resp: 1389510
 Ion Ratio Lower Upper
 58 100
 43 263.4 277.6 317.6#



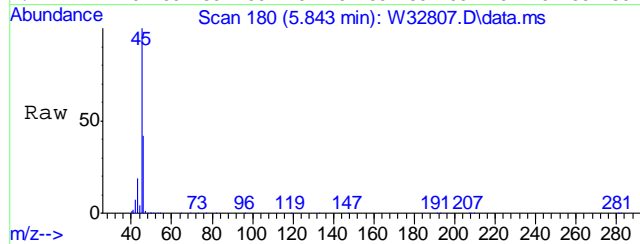
#26
 CARBON DISULFIDE
 Concen: 0.28 PPBV
 RT: 7.135 min Scan# 392
 Delta R.T. -0.006 min
 Lab File: W32807.D
 Acq: 20 Jul 2011 2:05 pm

Tgt Ion: 76 Resp: 12893
 Ion Ratio Lower Upper
 76 100
 78 8.8 0.0 28.9
 44 15.8 0.0 31.0

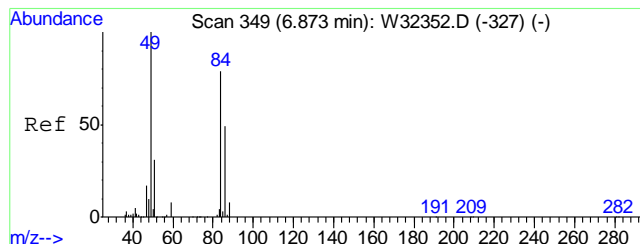
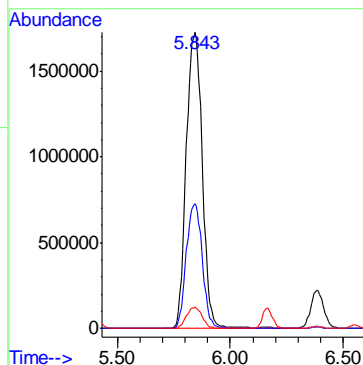
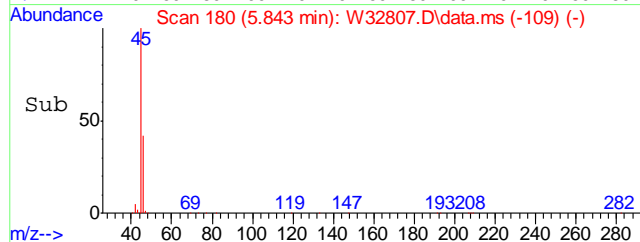




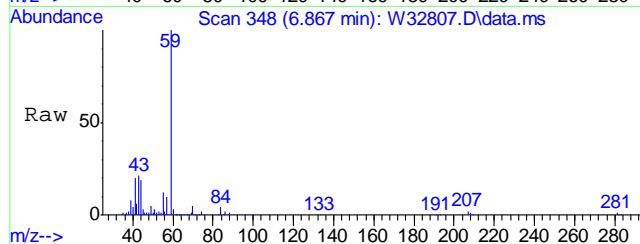
#27
ETHANOL
Concen: 871.19 PPBV
RT: 5.843 min Scan# 180
Delta R.T. 0.030 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm



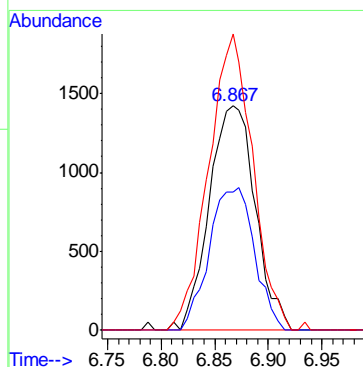
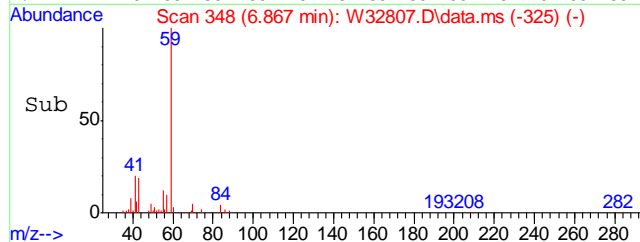
Tgt Ion: 45 Resp: 8533855
Ion Ratio Lower Upper
45 100
46 41.9 20.6 60.6
42 7.0 0.0 28.7

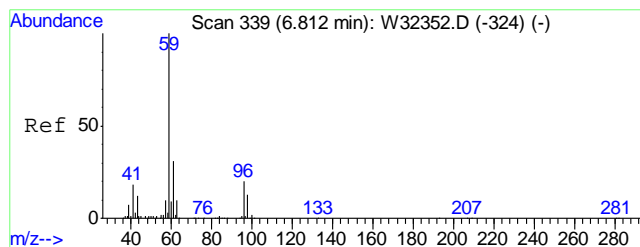


#30
METHYLENE CHLORIDE
Concen: 0.23 PPBV
RT: 6.867 min Scan# 348
Delta R.T. -0.006 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm



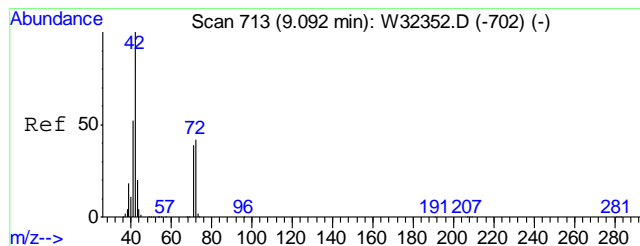
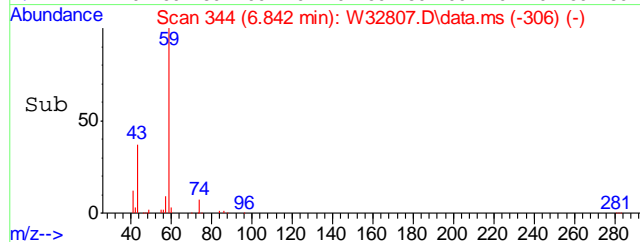
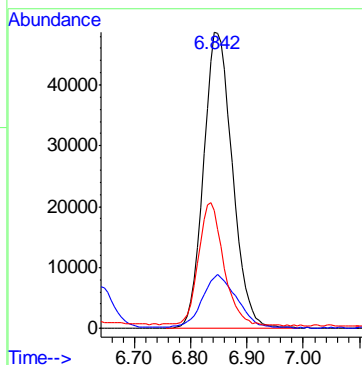
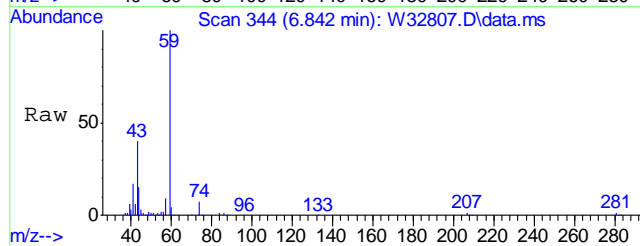
Tgt Ion: 84 Resp: 4257
Ion Ratio Lower Upper
84 100
86 62.1 42.9 82.9
49 126.1 0.0 324.2





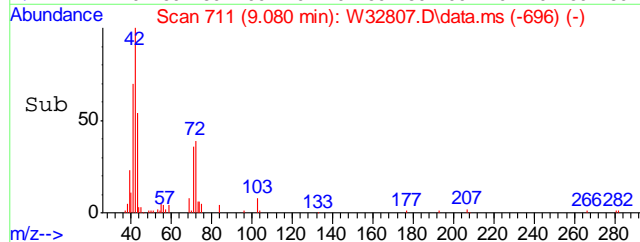
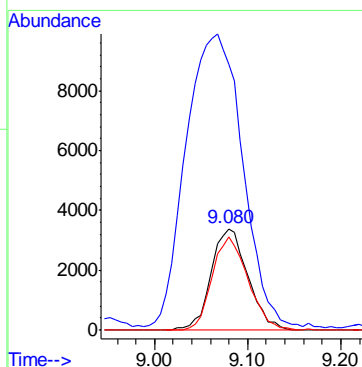
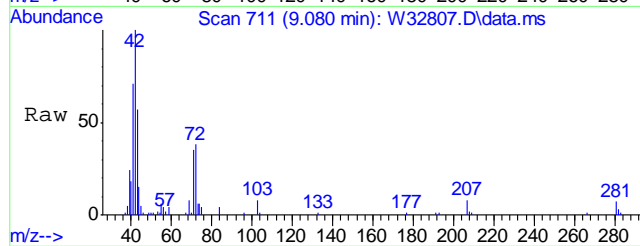
#34
TERTIARY BUTYL ALCOHOL
Concen: 4.00 PPBV
RT: 6.842 min Scan# 344
Delta R.T. 0.030 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

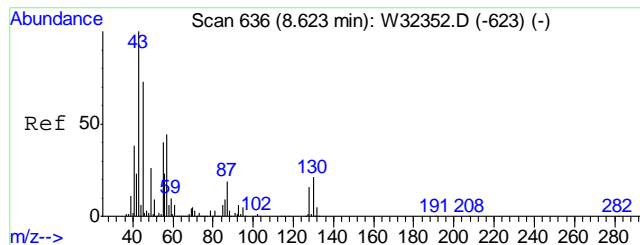
Tgt Ion	Ratio	Lower	Upper
59	100		
41	20.9	0.0	39.2
43	37.4	0.0	32.1#



#36
TETRAHYDROFURAN
Concen: 1.05 PPBV
RT: 9.080 min Scan# 711
Delta R.T. -0.012 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

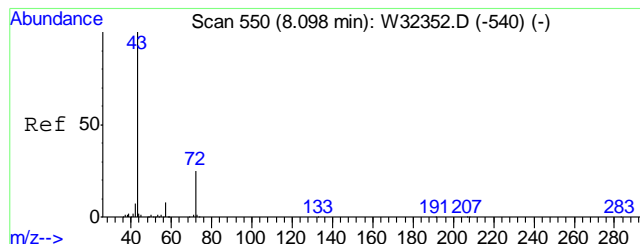
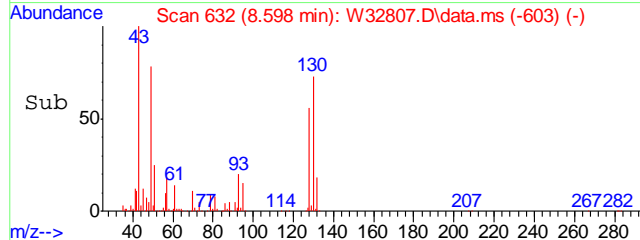
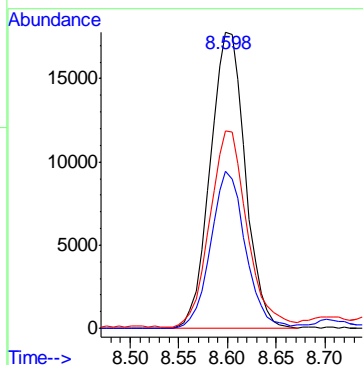
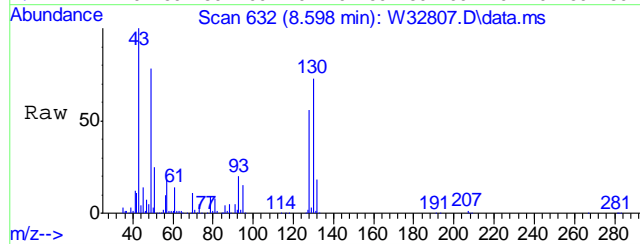
Tgt Ion	Ratio	Lower	Upper
72	100		
42	438.1	220.0	260.0#
71	90.2	74.2	114.2





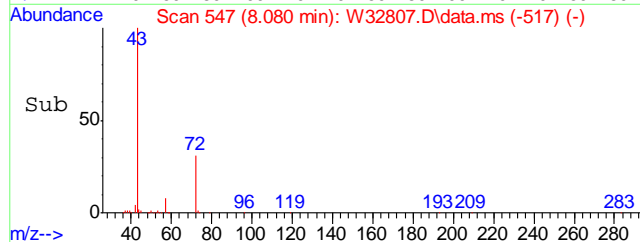
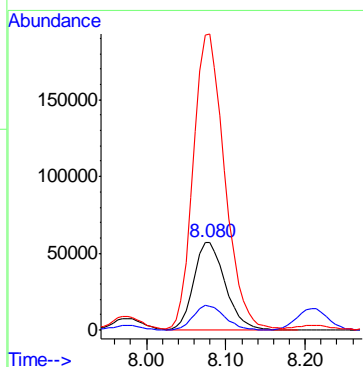
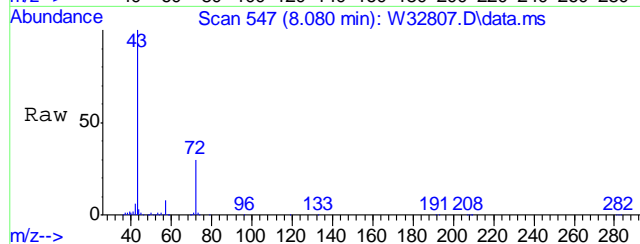
#37
 HEXANE
 Concen: 1.33 PPBV
 RT: 8.598 min Scan# 632
 Delta R.T. -0.024 min
 Lab File: W32807.D
 Acq: 20 Jul 2011 2:05 pm

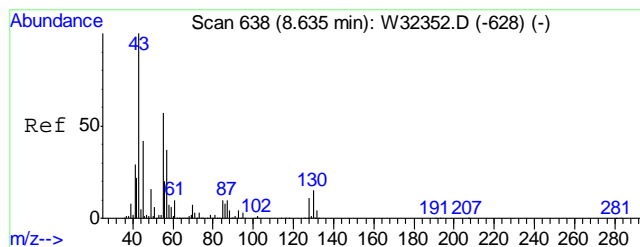
Tgt Ion	Ratio	Lower	Upper
57	100		
56	52.7	33.7	73.7
41	70.9	74.5	114.5#



#40
 METHYL ETHYL KETONE
 Concen: 17.07 PPBV
 RT: 8.080 min Scan# 547
 Delta R.T. -0.018 min
 Lab File: W32807.D
 Acq: 20 Jul 2011 2:05 pm

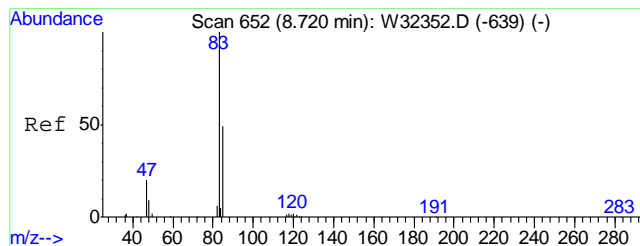
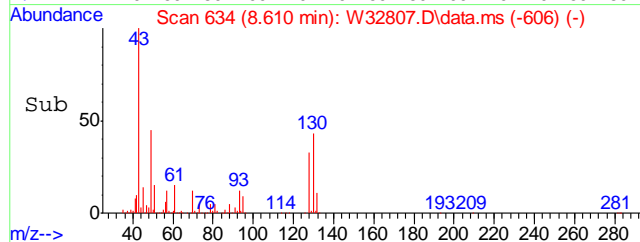
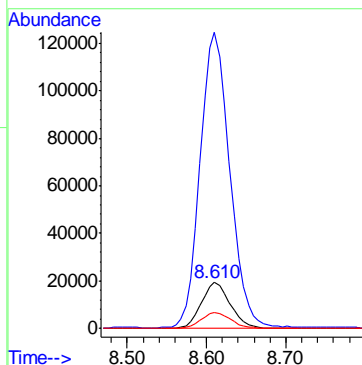
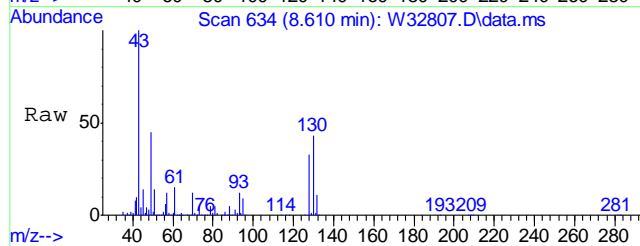
Tgt Ion	Ratio	Lower	Upper
72	100		
57	27.5	11.1	51.1
43	336.5	386.1	426.1#





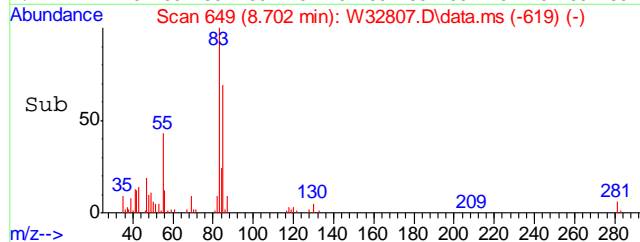
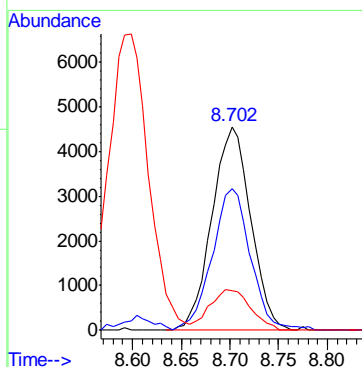
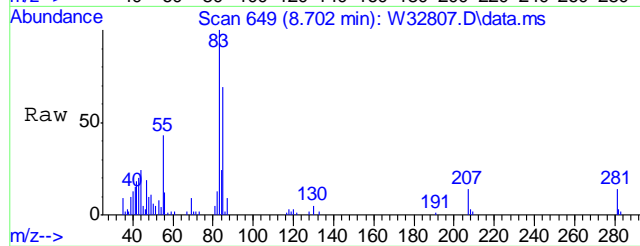
#43
ETHYL ACETATE
Concen: 8.13 PPBV
RT: 8.610 min Scan# 634
Delta R.T. -0.024 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

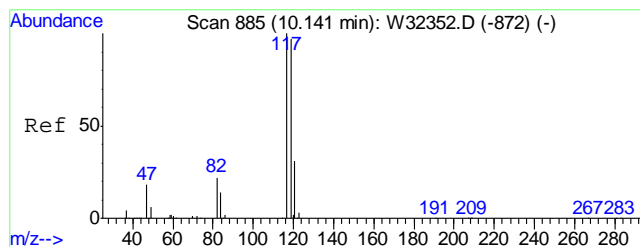
Tgt Ion	Ratio	Lower	Upper
61	100		
43	669.6	1488.2	1528.2#
88	34.9	27.8	67.8



#45
CHLOROFORM
Concen: 0.35 PPBV
RT: 8.702 min Scan# 649
Delta R.T. -0.018 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

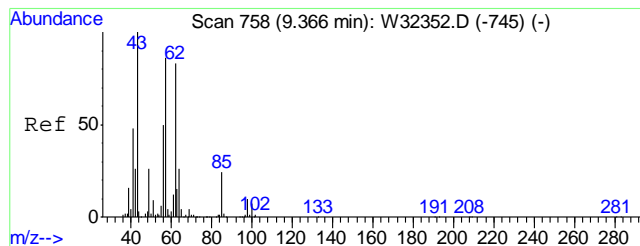
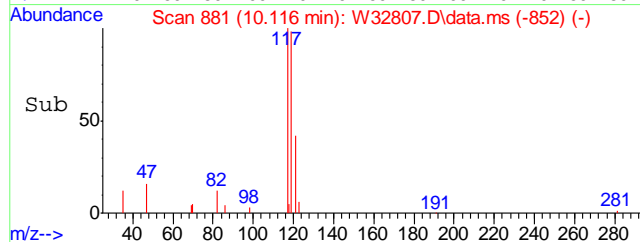
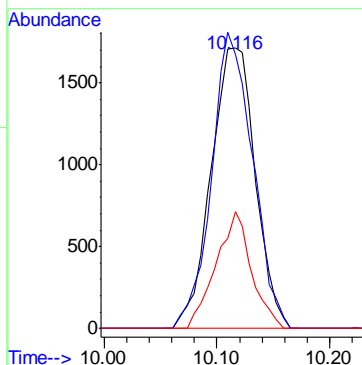
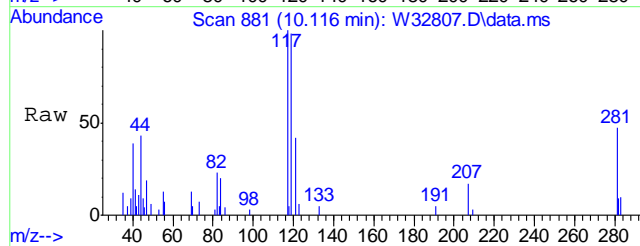
Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.9	44.6	84.6
47	21.0	2.6	42.6





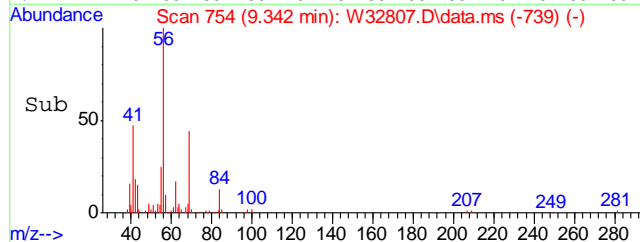
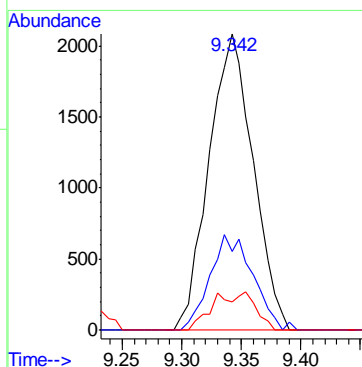
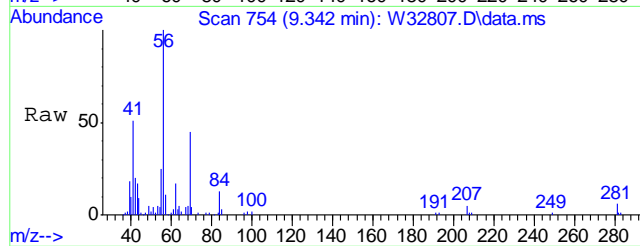
#48
CARBON TETRACHLORIDE
Concen: 0.13 PPBV
RT: 10.116 min Scan# 881
Delta R.T. -0.024 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

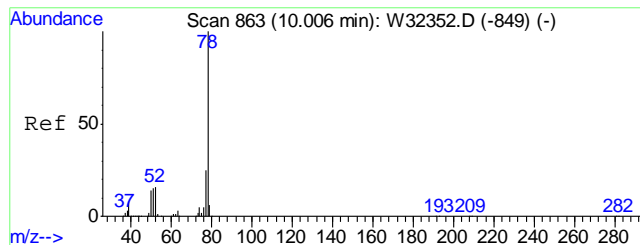
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.5	116.5
121	33.2	10.8	50.8



#49
1,2-DICHLOROETHANE
Concen: 0.26 PPBV
RT: 9.342 min Scan# 754
Delta R.T. -0.024 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

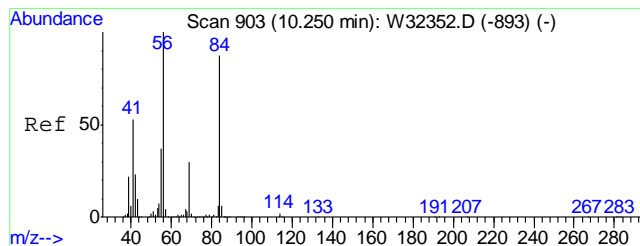
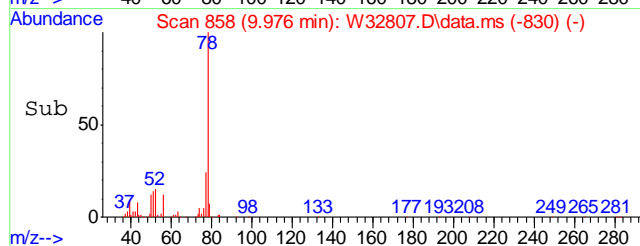
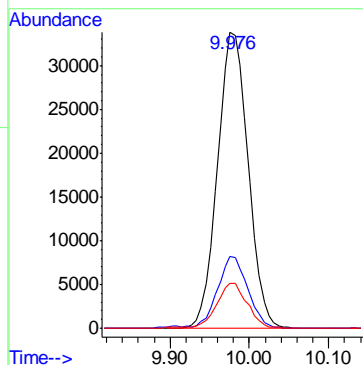
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.2	12.3	52.3
98	6.4	0.0	32.0





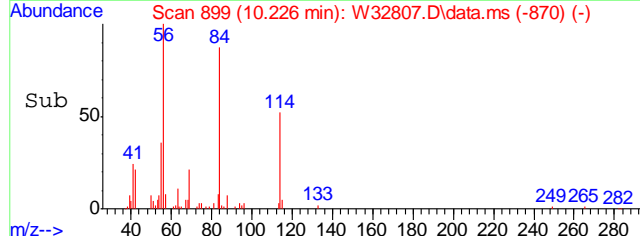
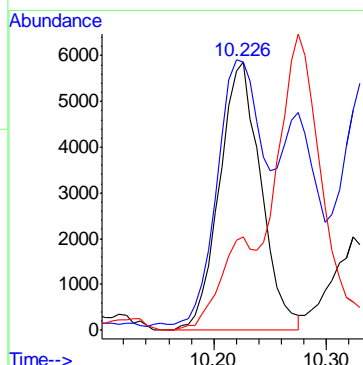
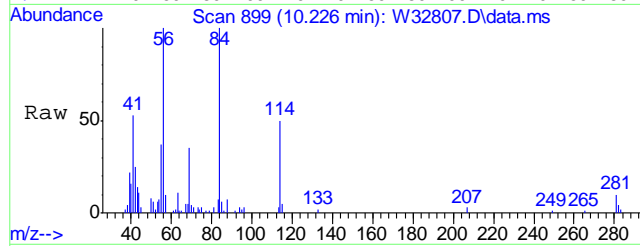
#51
BENZENE
Concen: 1.54 PPBV
RT: 9.976 min Scan# 858
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

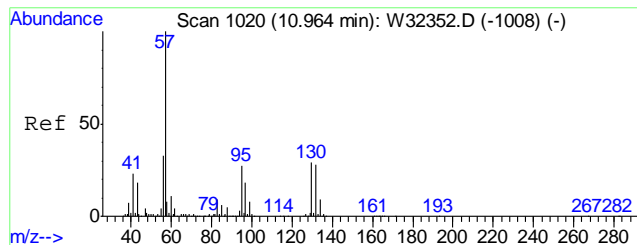
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	4.7	44.7
52	15.5	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.50 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.024 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

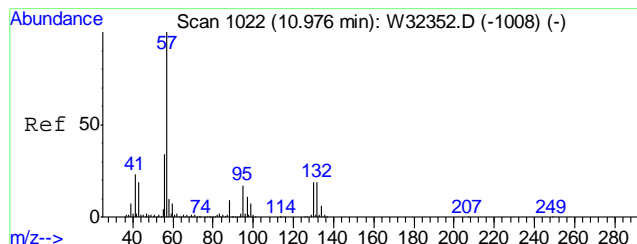
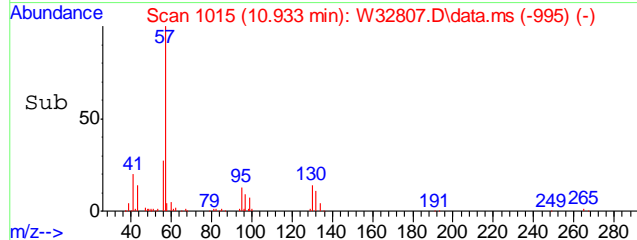
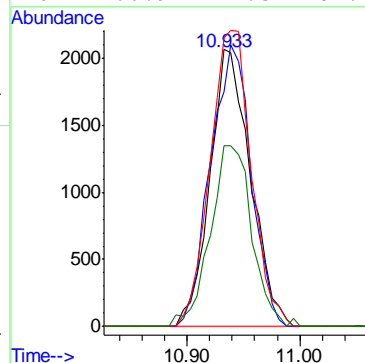
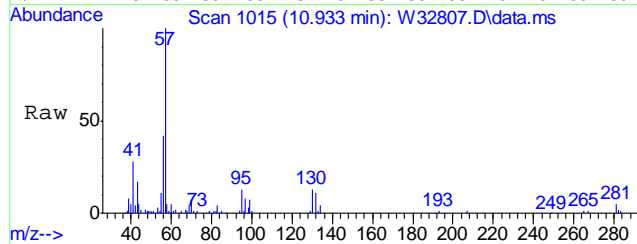
Tgt Ion	Ratio	Lower	Upper
84	100		
56	109.2	102.7	142.7
69	30.1	20.8	60.8





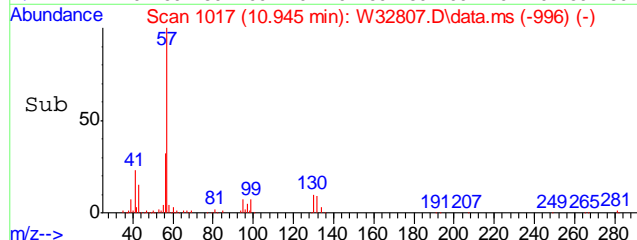
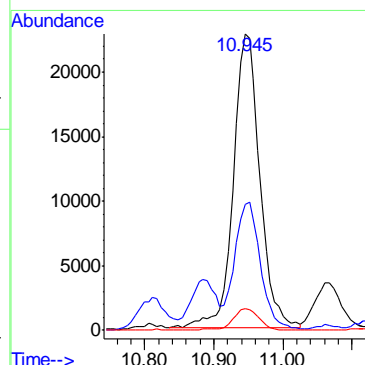
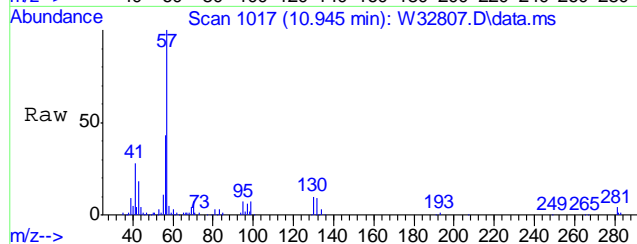
#54
TRICHLOROETHYLENE
Concen: 0.23 PPBV
RT: 10.933 min Scan# 1015
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

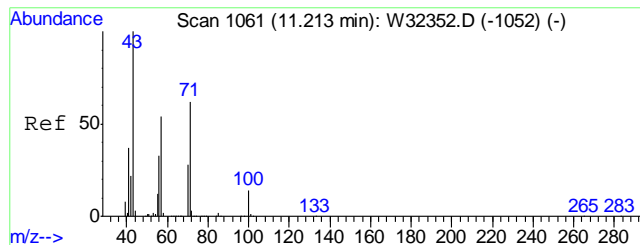
Tgt Ion	Ratio	Lower	Upper
95	100		
132	101.9	84.3	124.3
130	108.7	88.4	128.4
97	66.9	44.5	84.5



#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.60 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

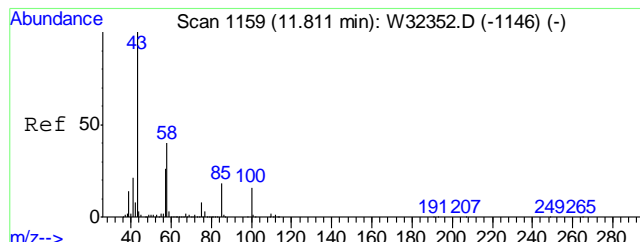
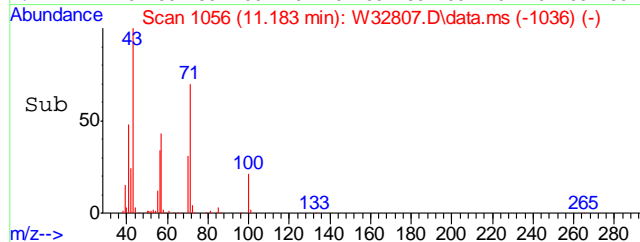
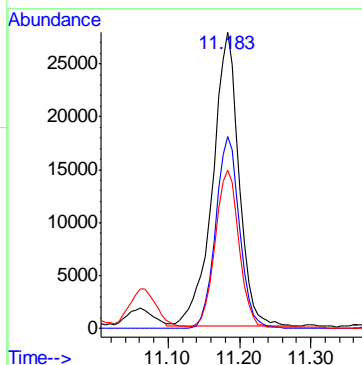
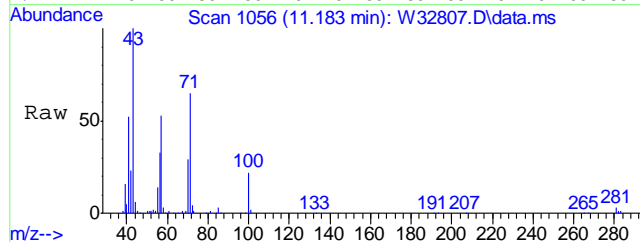
Tgt Ion	Ratio	Lower	Upper
57	100		
56	42.1	13.5	53.5
99	7.1	0.0	27.7





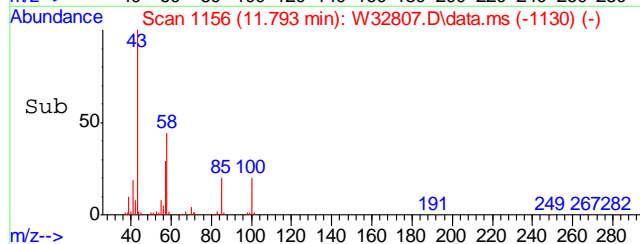
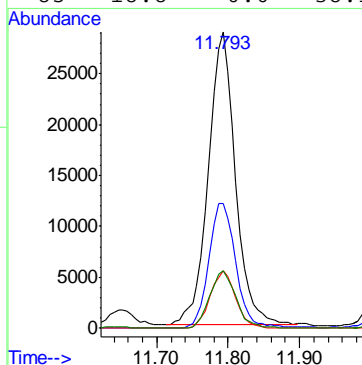
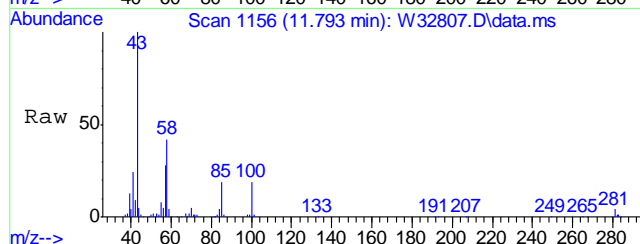
#62
HEPTANE
Concen: 1.89 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

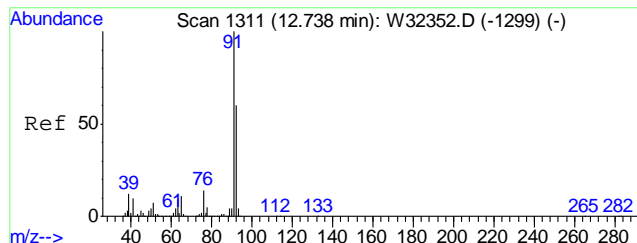
Tgt Ion	Ratio	Lower	Upper
43	100		
71	59.0	41.6	81.6
57	48.2	34.6	74.6



#64
METHYL ISOBUTYL KETONE
Concen: 1.87 PPBV
RT: 11.793 min Scan# 1156
Delta R.T. -0.018 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

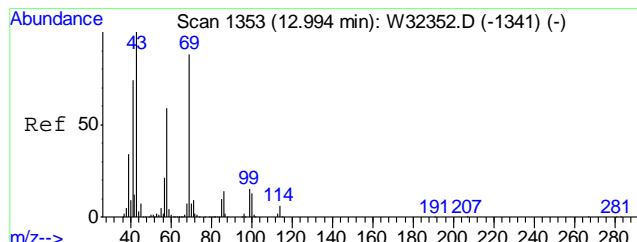
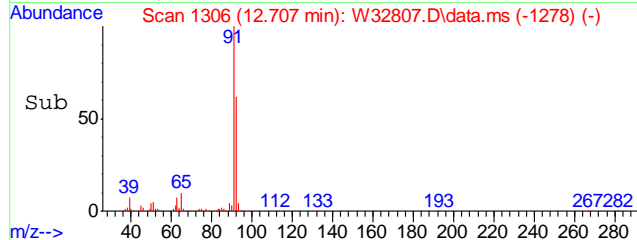
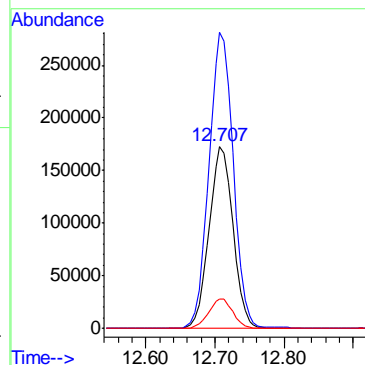
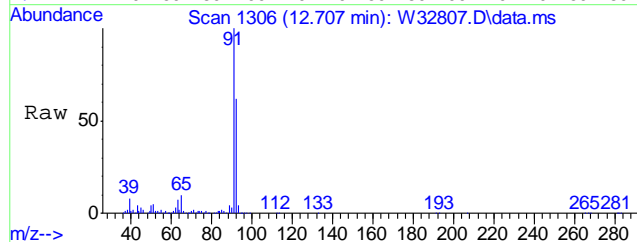
Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.6	20.7	60.7
100	18.1	0.0	36.0
85	18.8	0.0	38.1





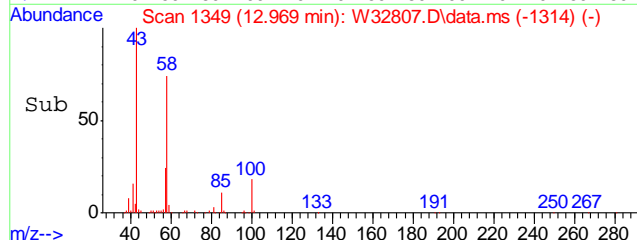
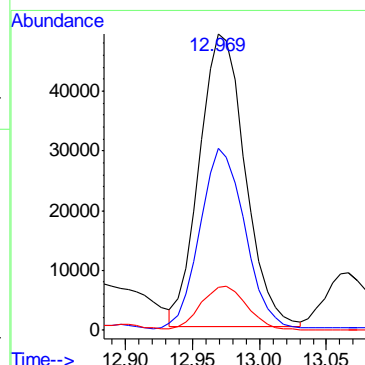
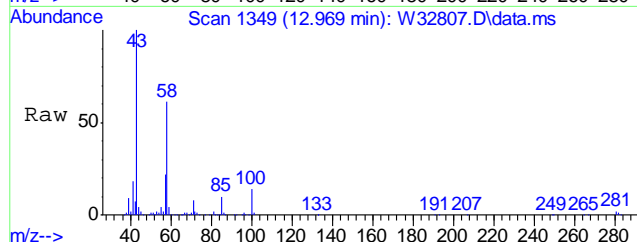
#66
TOLUENE
Concen: 10.60 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

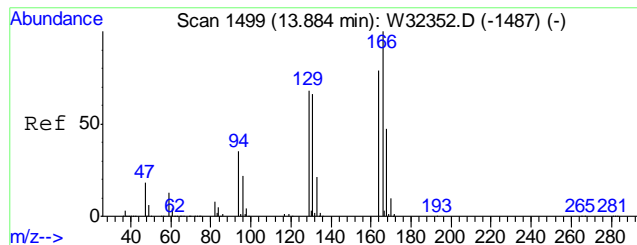
Tgt Ion	Ratio	Lower	Upper
92	100		
91	164.9	146.2	186.2
65	16.3	0.4	40.4



#71
2-HEXANONE
Concen: 3.54 PPBV
RT: 12.969 min Scan# 1349
Delta R.T. -0.024 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

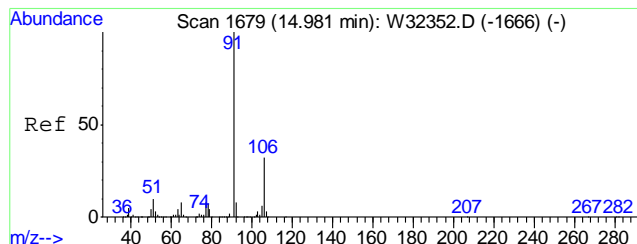
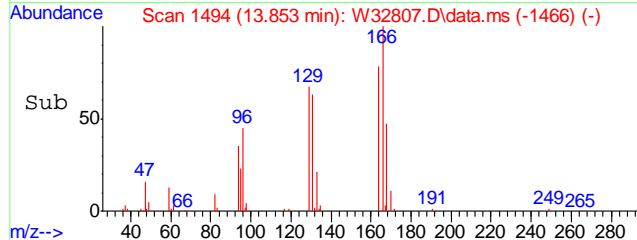
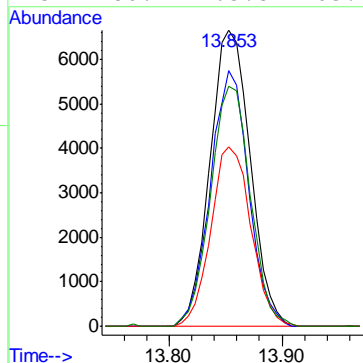
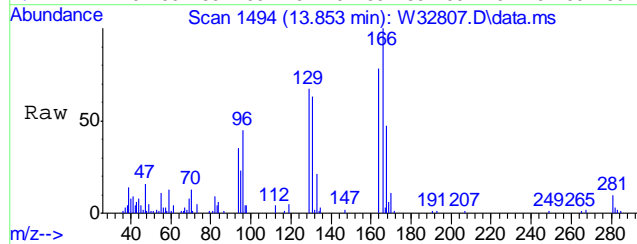
Tgt Ion	Ratio	Lower	Upper
43	100		
58	60.5	39.4	79.4
100	15.2	0.0	33.6





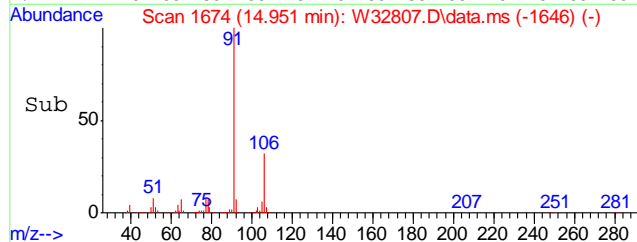
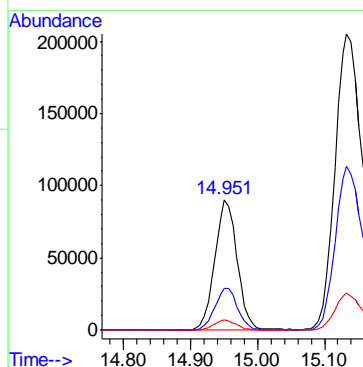
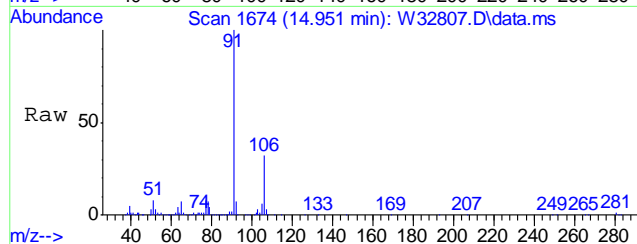
#72
TETRACHLOROETHYLENE
Concen: 0.75 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

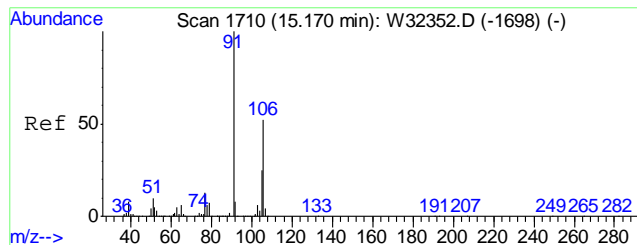
Tgt Ion:	164	Resp:	16482
Ion Ratio	Lower	Upper	
164	100		
129	81.8	66.3	106.3
168	60.2	41.0	81.0
131	80.1	63.5	103.5



#78
ETHYLBENZENE
Concen: 3.17 PPBV
RT: 14.951 min Scan# 1674
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

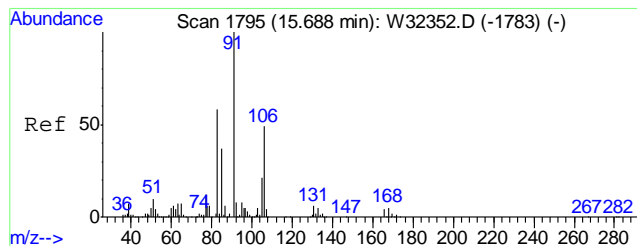
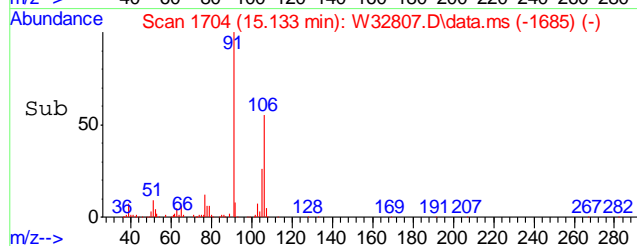
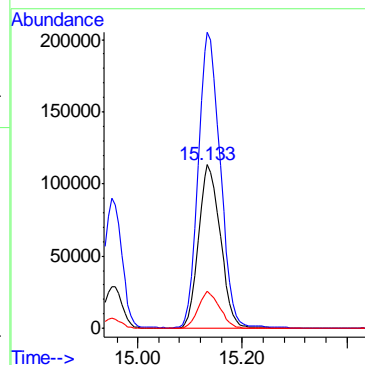
Tgt Ion:	91	Resp:	209288
Ion Ratio	Lower	Upper	
91	100		
106	32.6	11.7	51.7
77	7.6	0.0	28.1





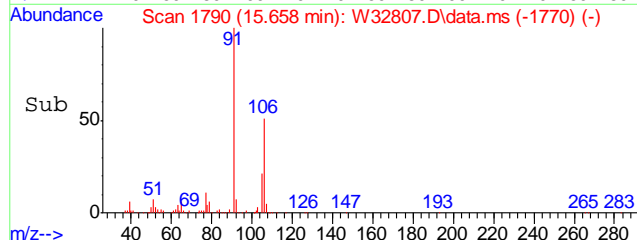
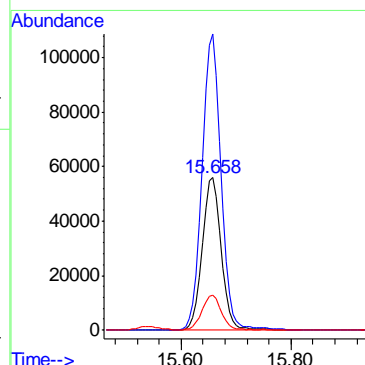
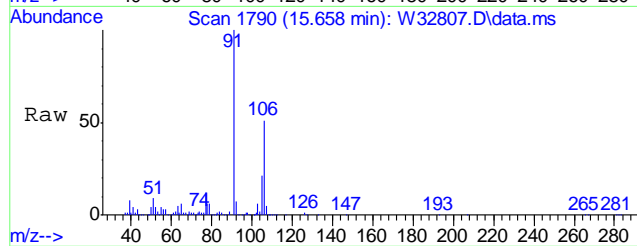
#79
m,p-XYLENE
Concen: 12.81 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

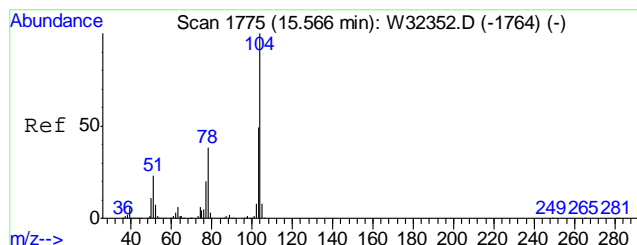
Tgt Ion	Ratio	Lower	Upper
106	100		
91	181.3	152.6	228.8
77	22.6	19.9	29.9



#80
o-XYLENE
Concen: 5.39 PPBV
RT: 15.658 min Scan# 1790
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

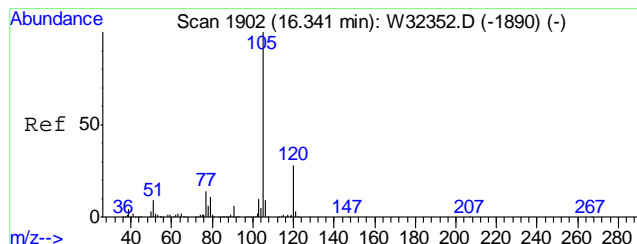
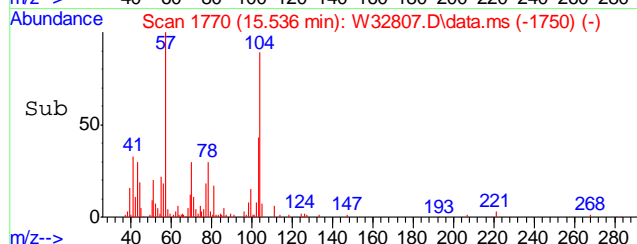
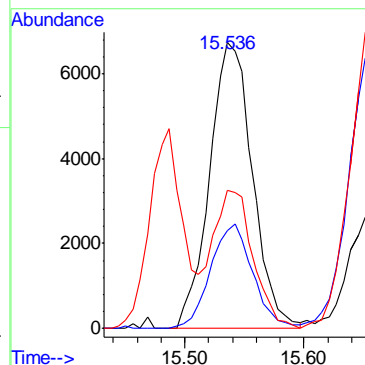
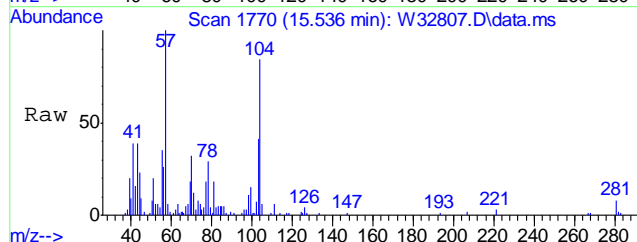
Tgt Ion	Ratio	Lower	Upper
106	100		
91	193.6	182.1	222.1
77	23.0	4.0	44.0





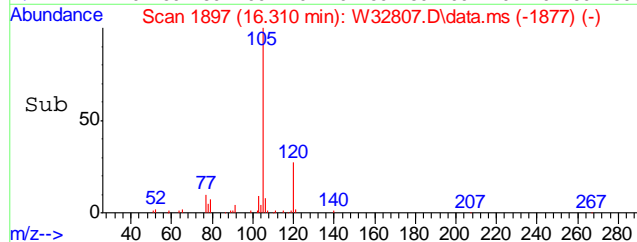
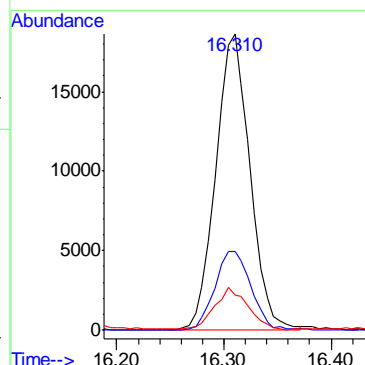
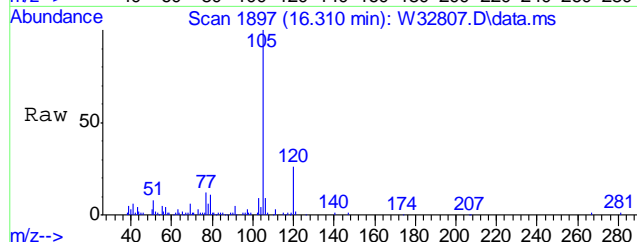
#81
 STYRENE
 Concen: 0.48 PPBV
 RT: 15.536 min Scan# 1770
 Delta R.T. -0.031 min
 Lab File: W32807.D
 Acq: 20 Jul 2011 2:05 pm

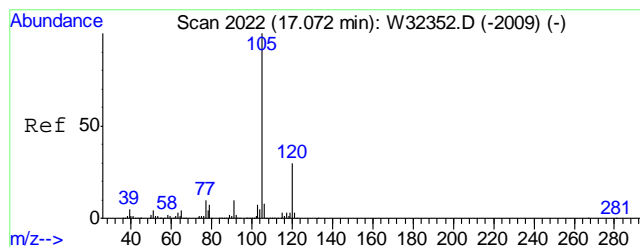
Tgt Ion	Ratio	Lower	Upper
104	100		
78	35.9	18.2	58.2
103	45.7	28.2	68.2



#87
 ISOPROPYLBENZENE
 Concen: 0.59 PPBV
 RT: 16.310 min Scan# 1897
 Delta R.T. -0.031 min
 Lab File: W32807.D
 Acq: 20 Jul 2011 2:05 pm

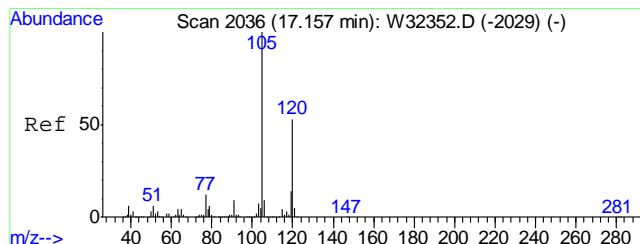
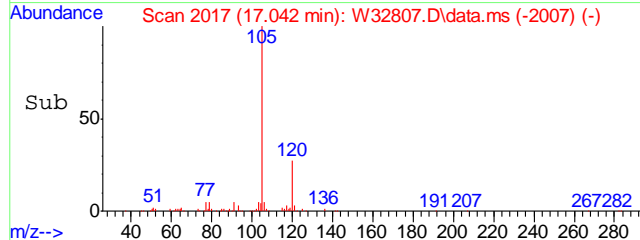
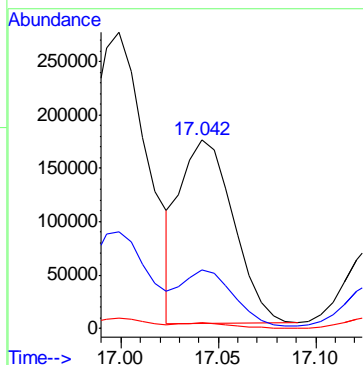
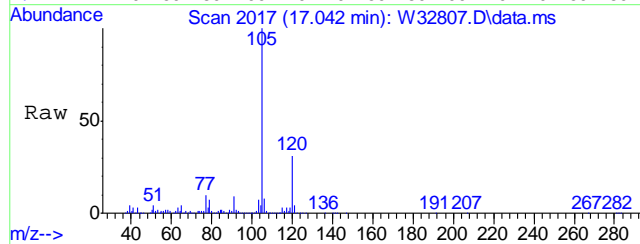
Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.0	6.9	46.9
77	14.2	0.0	33.9





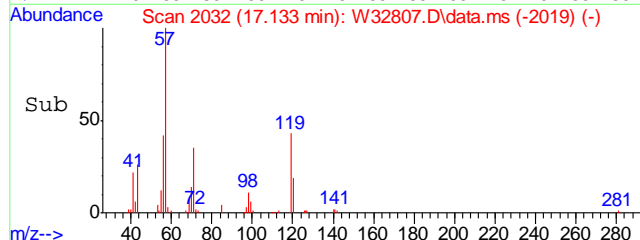
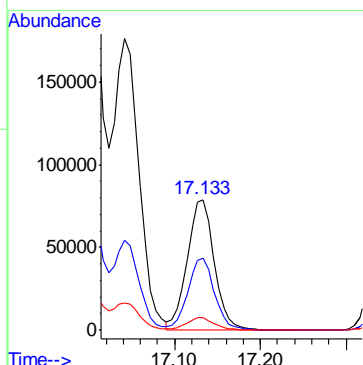
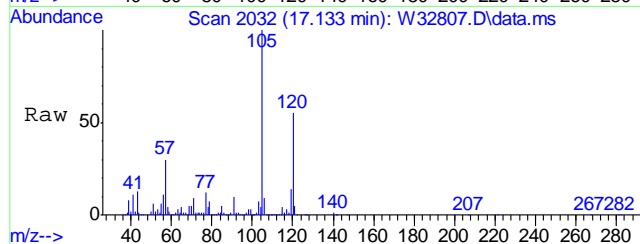
#91
4-ETHYLTOLUENE
Concen: 5.63 PPBV
RT: 17.042 min Scan# 2017
Delta R.T. -0.031 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

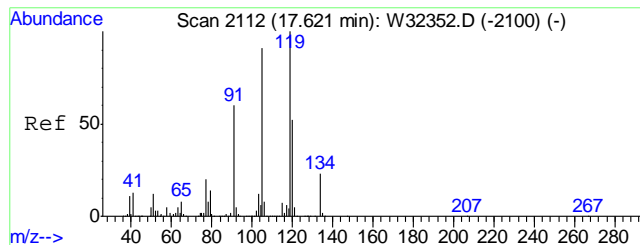
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.4	9.8	49.8
119	2.8	0.0	22.9



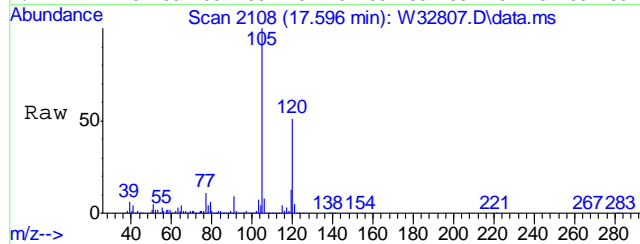
#92
1,3,5-TRIMETHYLBENZENE
Concen: 3.58 PPBV
RT: 17.133 min Scan# 2032
Delta R.T. -0.024 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.7	32.9	72.9
91	9.5	0.0	29.3

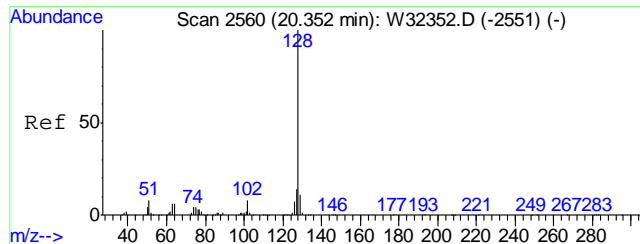
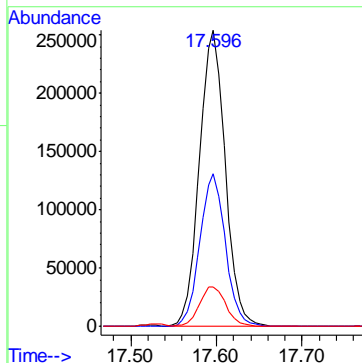
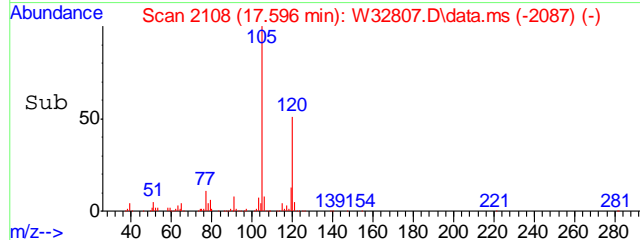




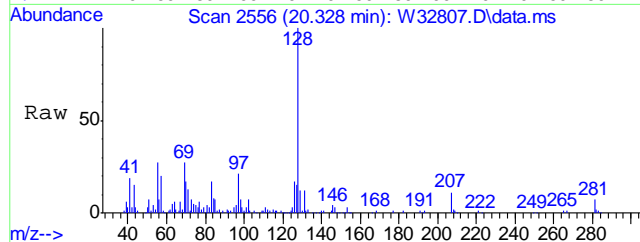
#95
1,2,4-TRIMETHYLBENZENE
Concen: 12.10 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm



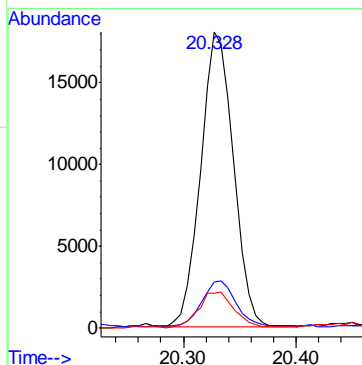
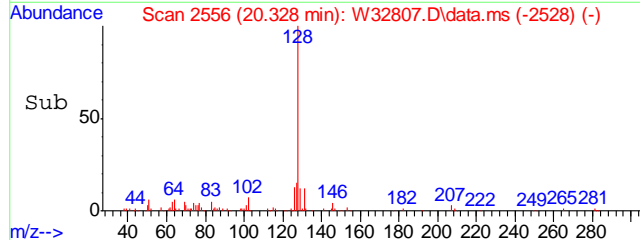
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.8	39.3	79.3
119	13.7	101.1	141.1#



#107
NAPHTHALENE
Concen: 3.68 PPBV
RT: 20.328 min Scan# 2556
Delta R.T. -0.024 min
Lab File: W32807.D
Acq: 20 Jul 2011 2:05 pm



Tgt Ion	Ratio	Lower	Upper
128	100		
127	17.3	0.0	34.3
129	13.6	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32816.D
 Acq On : 20 Jul 2011 8:15 pm
 Operator : YOUMINH
 Sample : JA81330-1
 Misc : MS15514,VW1341,50,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 00:25:31 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	143501	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	709640	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	294024	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	293221	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.164	95	157258	4.95	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	99.00%

Target Compounds

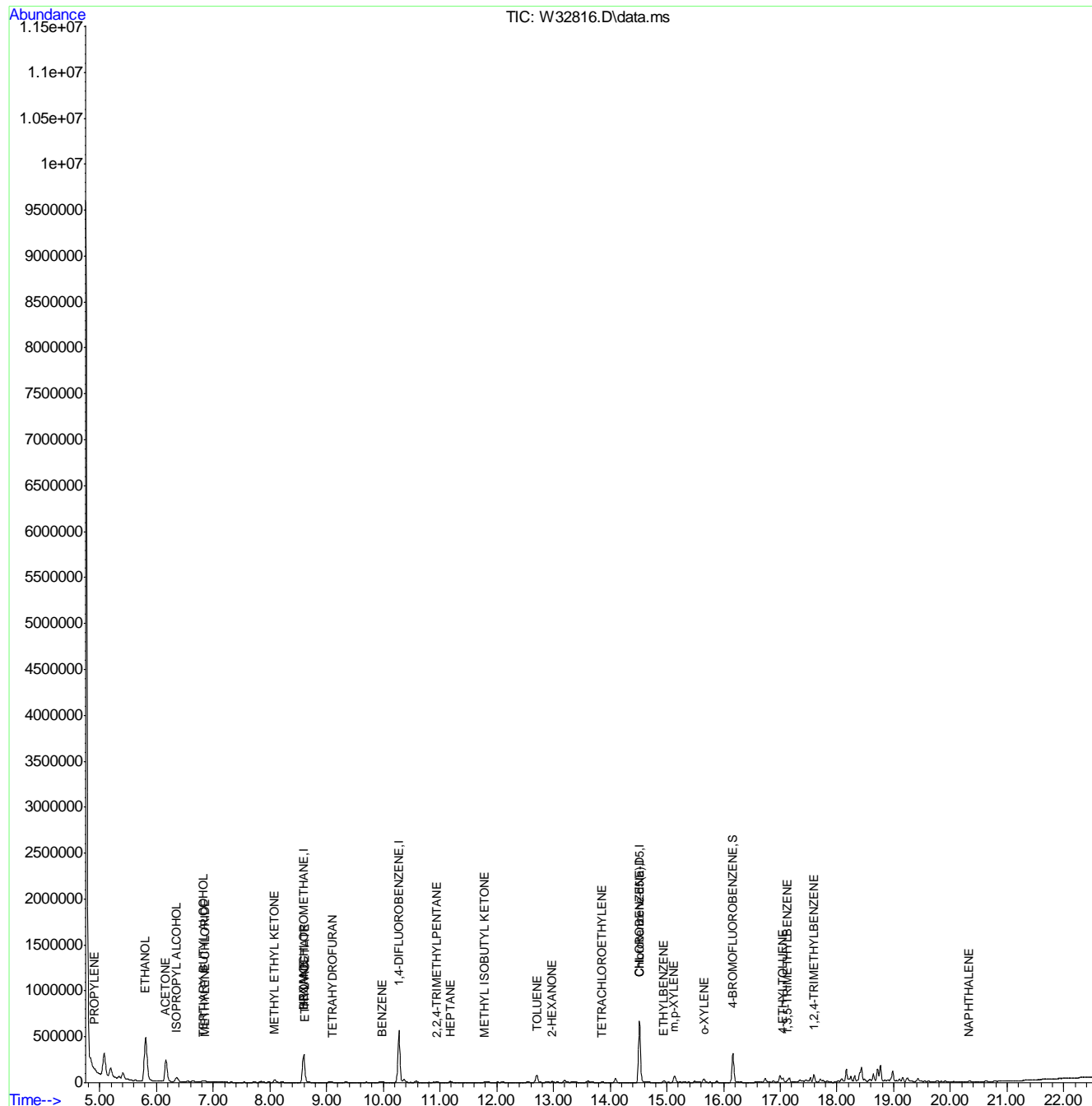
						Qvalue
6) PROPYLENE	4.910	41	14938	0.83	PPBV	# 79
19) ISOPROPYL ALCOHOL	6.355	45	99470	2.84	PPBV	98
20) ACETONE	6.166	58	154446	16.82	PPBV	# 82
27) ETHANOL	5.806	45	978522	106.55	PPBV	98
30) METHYLENE CHLORIDE	6.861	84	4327	0.25	PPBV	90
34) TERTIARY BUTYL ALCOHOL	6.824	59	23865	0.59	PPBV	# 66
36) TETRAHYDROFURAN	9.098	72	1041	0.12	PPBV	# 81
37) HEXANE	8.598	57	5400	0.17	PPBV	# 85
40) METHYL ETHYL KETONE	8.086	72	16856	1.96	PPBV	# 61
43) ETHYL ACETATE	8.616	61	5435	0.98	PPBV	# 1
51) BENZENE	9.976	78	10847	0.20	PPBV	98
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	7187	0.08	PPBV	86
62) HEPTANE	11.183	43	8731	0.25	PPBV	92
64) METHYL ISOBUTYL KETONE	11.793	43	8157	0.22	PPBV	97
66) TOLUENE	12.713	92	49863	1.37	PPBV	99
71) 2-HEXANONE	12.975	43	10193	0.35	PPBV	95
72) TETRACHLOROETHYLENE	13.847	164	2067	0.11	PPBV	96
78) ETHYLBENZENE	14.950	91	24875	0.43	PPBV	98
79) m,p-XYLENE	15.127	106	39538	1.74	PPBV	# 87
80) o-XYLENE	15.652	106	15916	0.73	PPBV	94
91) 4-ETHYLTOLUENE	17.042	105	35431	0.69	PPBV	97
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	20758	0.49	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	59397	1.53	PPBV	# 33
107) NAPHTHALENE	20.334	128	5500	0.63	PPBV	99

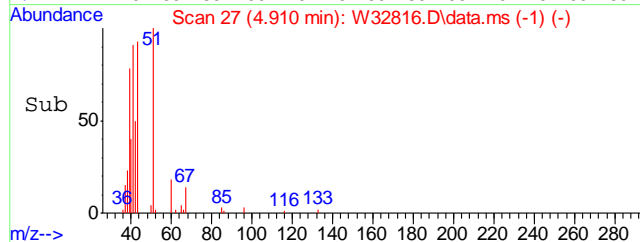
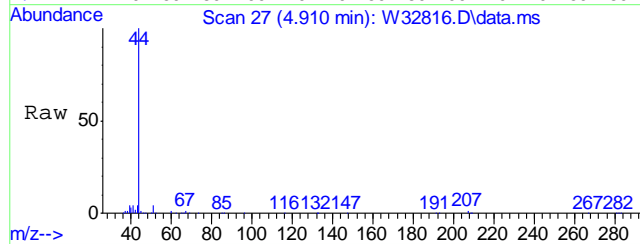
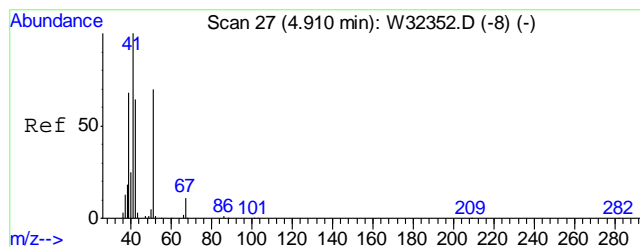
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32816.D
Acq On : 20 Jul 2011 8:15 pm
Operator : YOU MINH
Sample : JA81330-1
Misc : MS15514,VW1341,50,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 00:25:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





#6

PROPYLENE

Concen: 0.83 PPBV

RT: 4.910 min Scan# 27

Delta R.T. -0.000 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

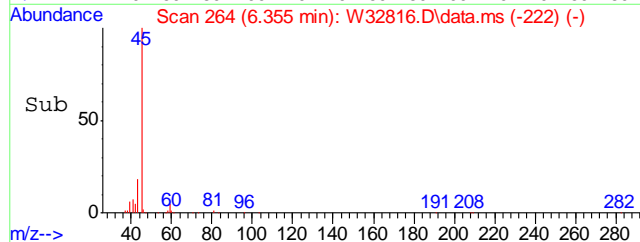
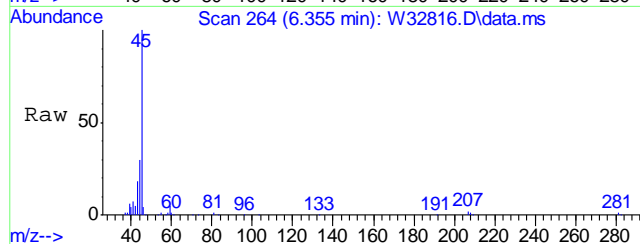
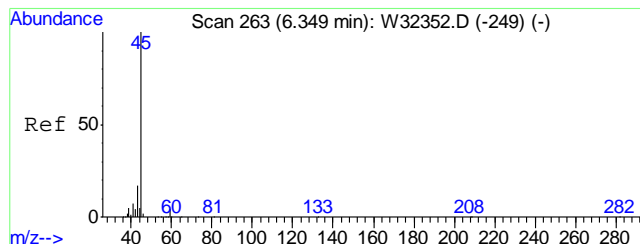
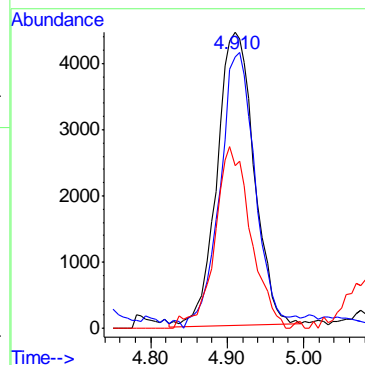
Tgt Ion: 41 Resp: 14938

Ion Ratio Lower Upper

41 100

39 91.6 47.7 87.7#

42 55.1 43.7 83.7



#19

ISOPROPYL ALCOHOL

Concen: 2.84 PPBV

RT: 6.355 min Scan# 264

Delta R.T. 0.006 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

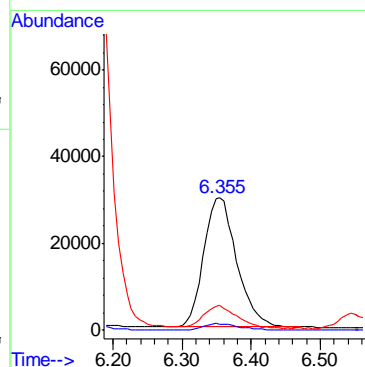
Tgt Ion: 45 Resp: 99470

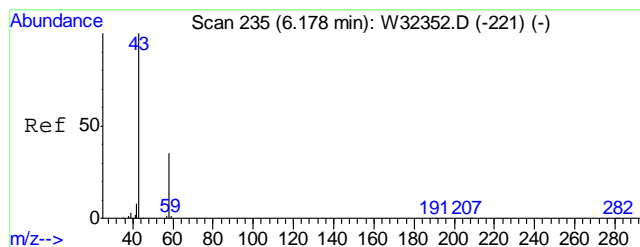
Ion Ratio Lower Upper

45 100

59 4.7 0.0 24.3

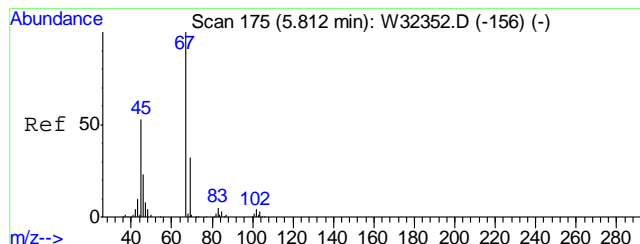
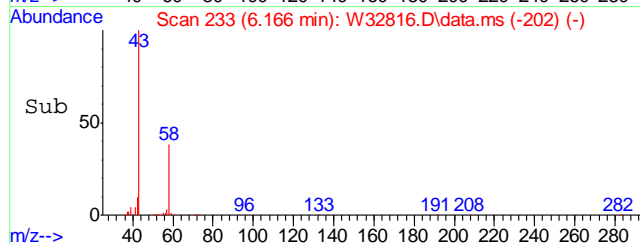
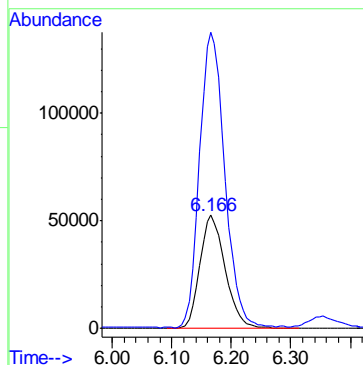
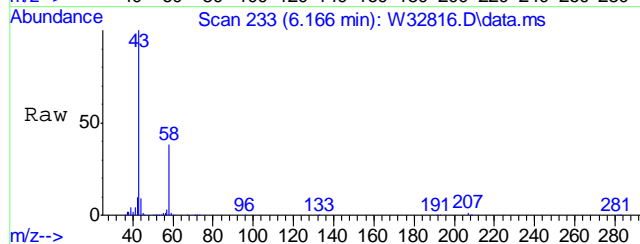
43 18.3 0.0 37.5





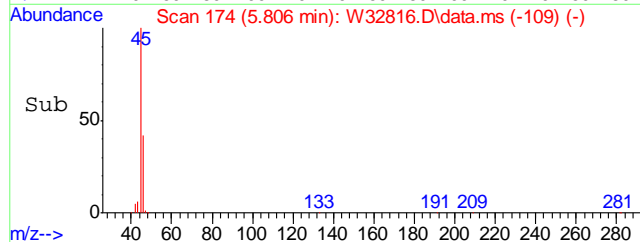
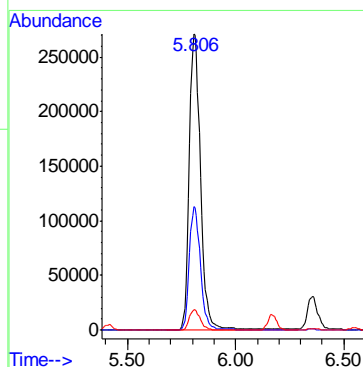
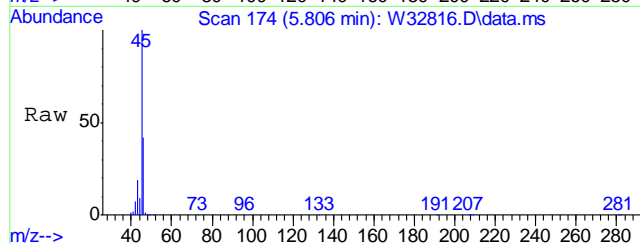
#20
ACETONE
Concen: 16.82 PPBV
RT: 6.166 min Scan# 233
Delta R.T. -0.012 min
Lab File: W32816.D
Acq: 20 Jul 2011 8:15 pm

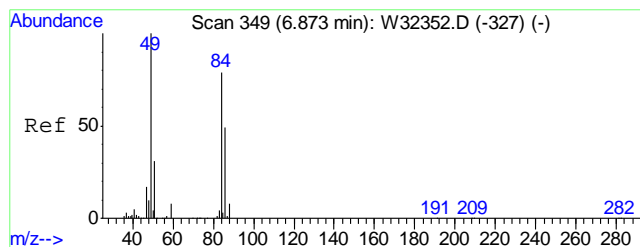
Tgt Ion: 58 Resp: 154446
Ion Ratio Lower Upper
58 100
43 262.9 277.6 317.6#



#27
ETHANOL
Concen: 106.55 PPBV
RT: 5.806 min Scan# 174
Delta R.T. -0.006 min
Lab File: W32816.D
Acq: 20 Jul 2011 8:15 pm

Tgt Ion: 45 Resp: 978522
Ion Ratio Lower Upper
45 100
46 41.1 20.6 60.6
42 6.8 0.0 28.7





#30

METHYLENE CHLORIDE

Concen: 0.25 PPBV

RT: 6.861 min Scan# 347

Delta R.T. -0.012 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

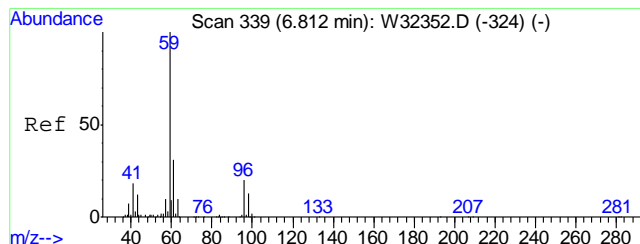
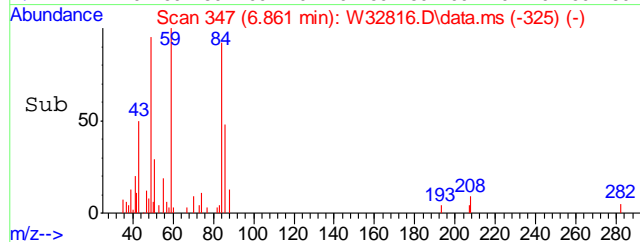
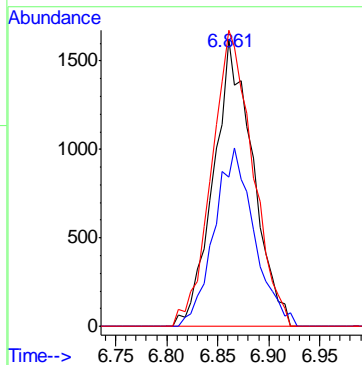
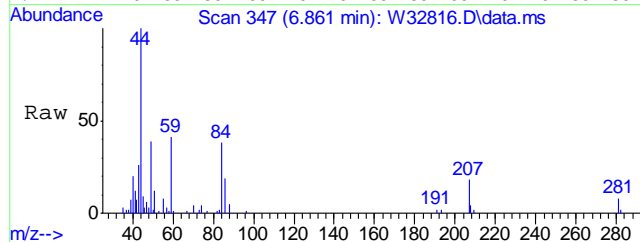
Tgt Ion: 84 Resp: 4327

Ion Ratio Lower Upper

84 100

86 63.5 42.9 82.9

49 108.4 0.0 324.2



#34

TERTIARY BUTYL ALCOHOL

Concen: 0.59 PPBV

RT: 6.824 min Scan# 341

Delta R.T. 0.012 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

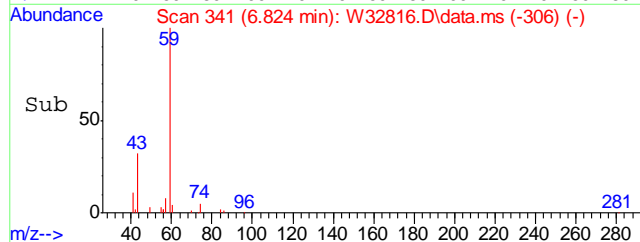
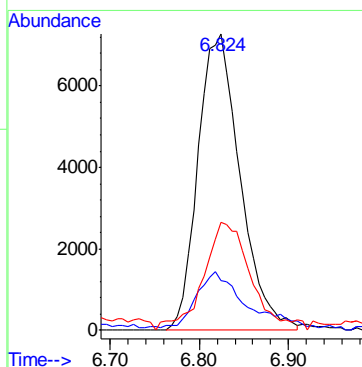
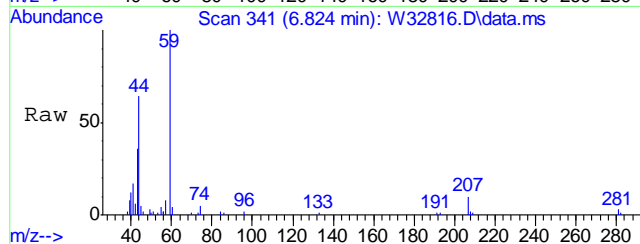
Tgt Ion: 59 Resp: 23865

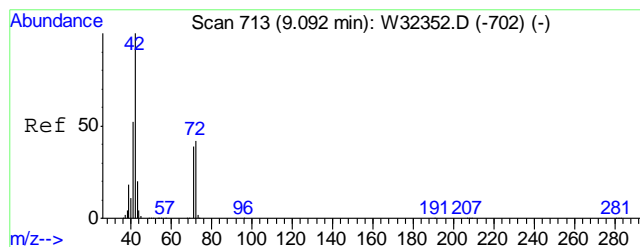
Ion Ratio Lower Upper

59 100

41 23.0 0.0 39.2

43 40.8 0.0 32.1#





#36

TETRAHYDROFURAN

Concen: 0.12 PPBV

RT: 9.098 min Scan# 714

Delta R.T. 0.006 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

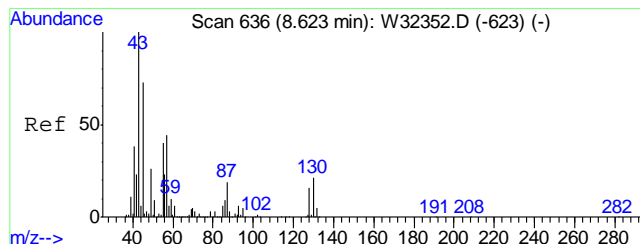
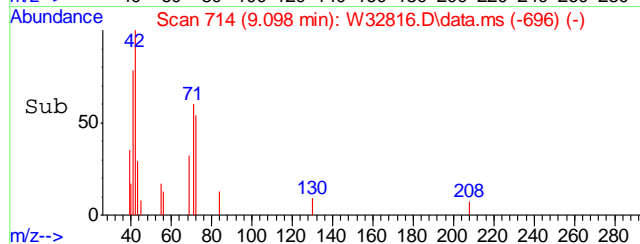
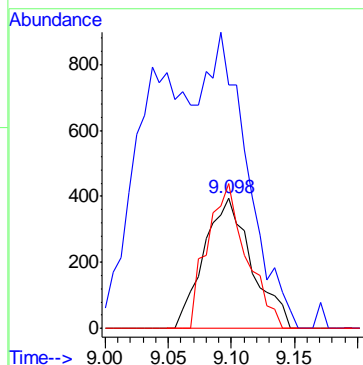
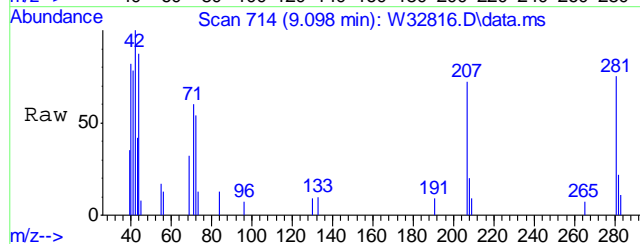
Tgt Ion: 72 Resp: 1041

Ion Ratio Lower Upper

72 100

42 197.8 220.0 260.0#

71 90.9 74.2 114.2



#37

HEXANE

Concen: 0.17 PPBV

RT: 8.598 min Scan# 632

Delta R.T. -0.024 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

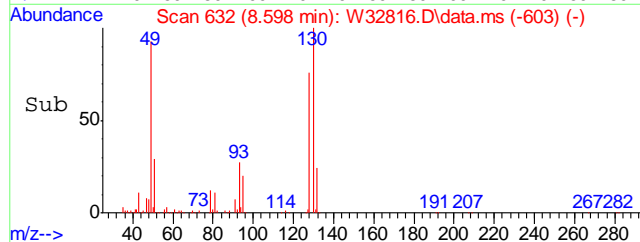
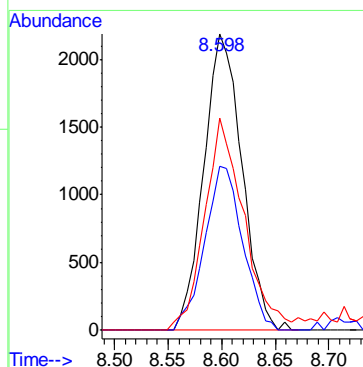
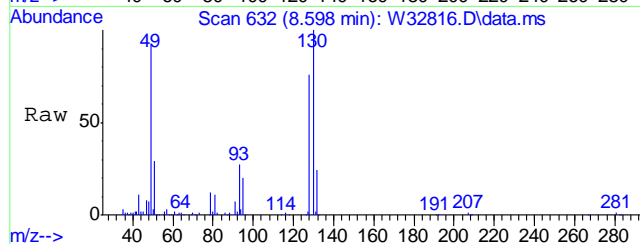
Tgt Ion: 57 Resp: 5400

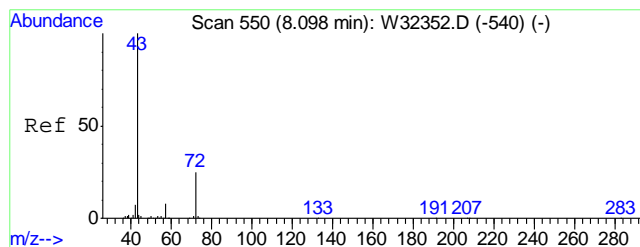
Ion Ratio Lower Upper

57 100

56 55.2 33.7 73.7

41 73.5 74.5 114.5#





#40

METHYL ETHYL KETONE

Concen: 1.96 PPBV

RT: 8.086 min Scan# 548

Delta R.T. -0.012 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

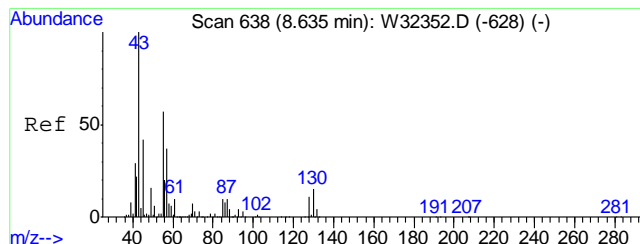
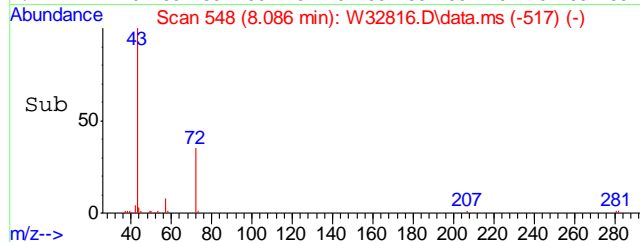
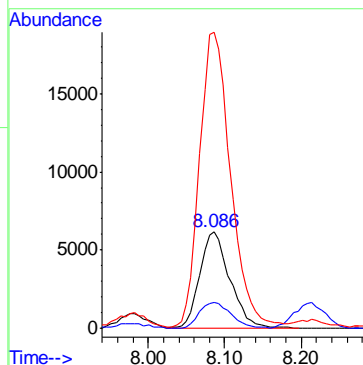
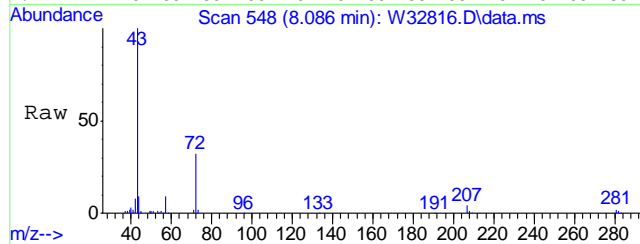
Tgt Ion: 72 Resp: 16856

Ion Ratio Lower Upper

72 100

57 26.4 11.1 51.1

43 308.2 386.1 426.1#



#43

ETHYL ACETATE

Concen: 0.98 PPBV

RT: 8.616 min Scan# 635

Delta R.T. -0.018 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

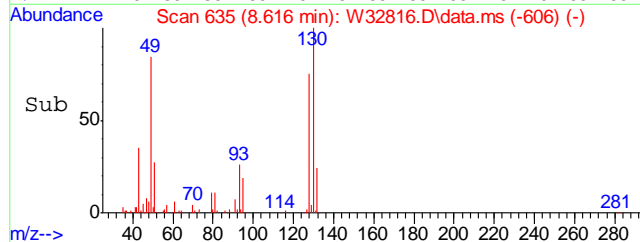
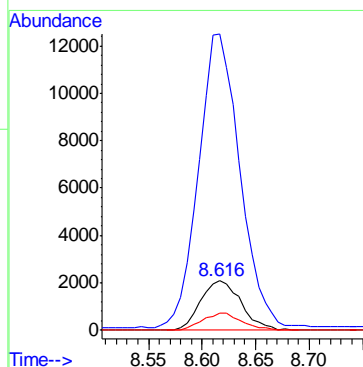
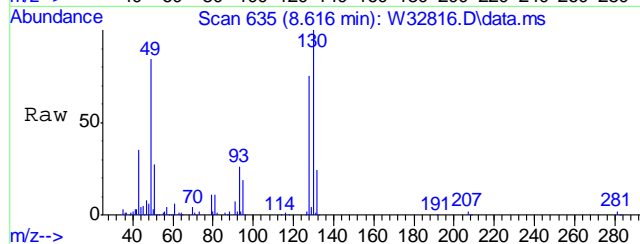
Tgt Ion: 61 Resp: 5435

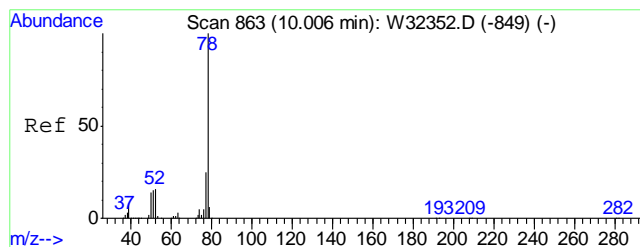
Ion Ratio Lower Upper

61 100

43 617.6 1488.2 1528.2#

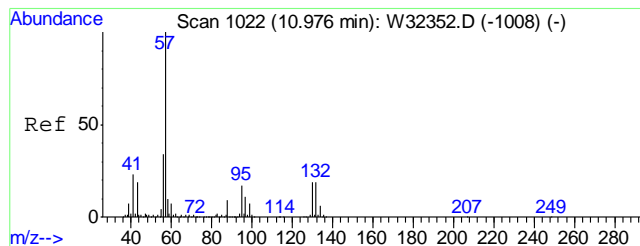
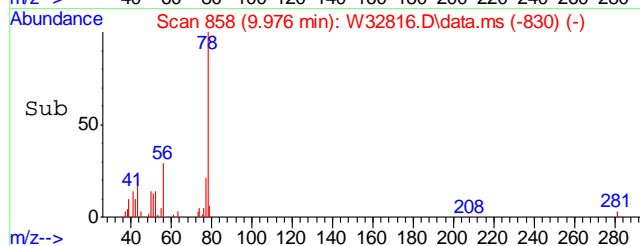
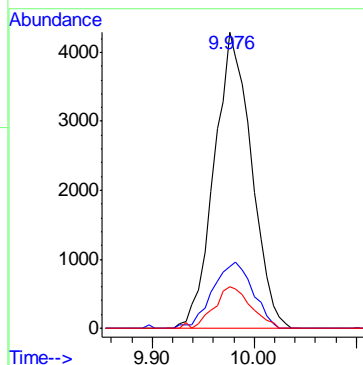
88 33.1 27.8 67.8





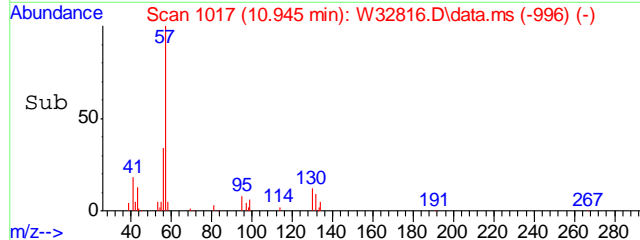
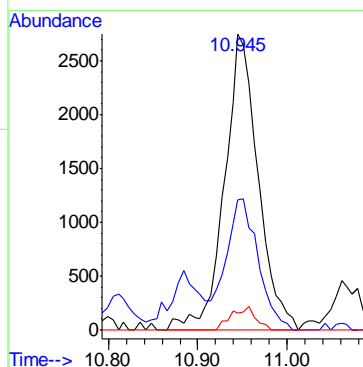
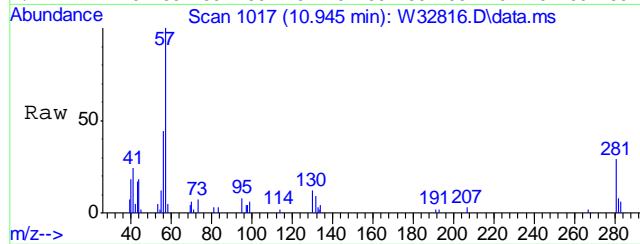
#51
BENZENE
Concen: 0.20 PPBV
RT: 9.976 min Scan# 858
Delta R.T. -0.031 min
Lab File: W32816.D
Acq: 20 Jul 2011 8:15 pm

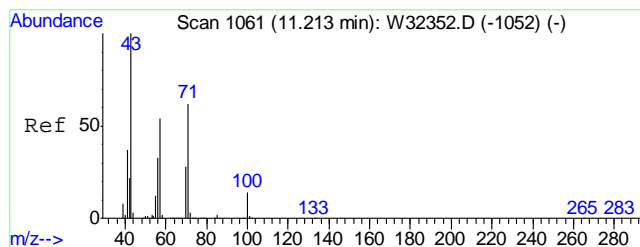
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	4.7	44.7
52	14.0	0.0	35.9



#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.08 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.031 min
Lab File: W32816.D
Acq: 20 Jul 2011 8:15 pm

Tgt Ion	Ratio	Lower	Upper
57	100		
56	42.3	13.5	53.5
99	5.7	0.0	27.7





#62

HEPTANE

Concen: 0.25 PPBV

RT: 11.183 min Scan# 1056

Delta R.T. -0.031 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

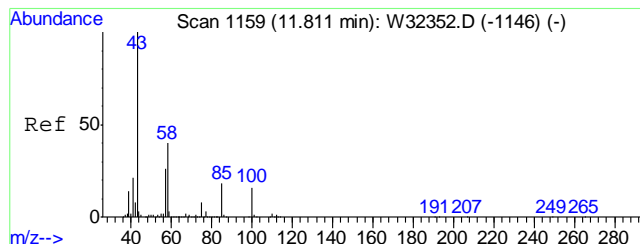
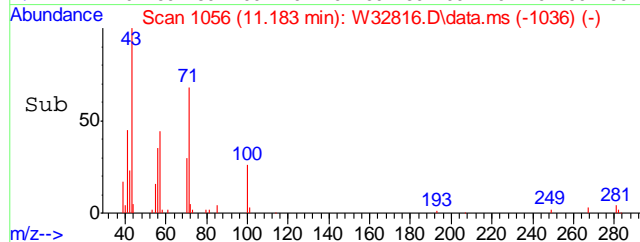
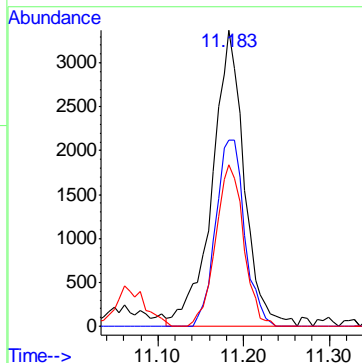
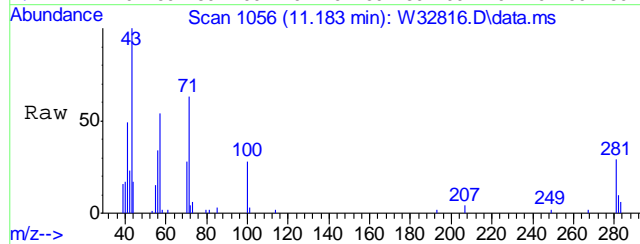
Tgt Ion: 43 Resp: 8731

Ion Ratio Lower Upper

43 100

71 56.9 41.6 81.6

57 47.9 34.6 74.6



#64

METHYL ISOBUTYL KETONE

Concen: 0.22 PPBV

RT: 11.793 min Scan# 1156

Delta R.T. -0.018 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

Tgt Ion: 43 Resp: 8157

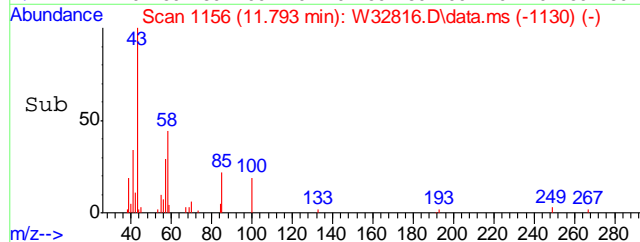
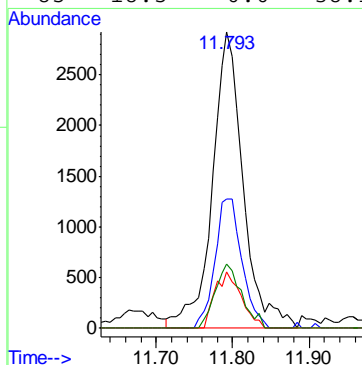
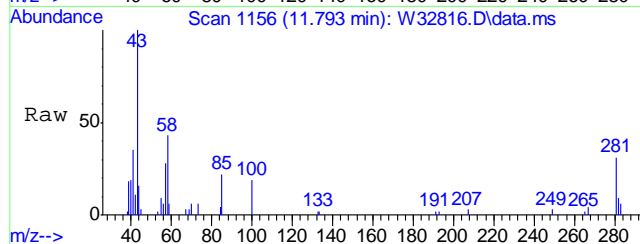
Ion Ratio Lower Upper

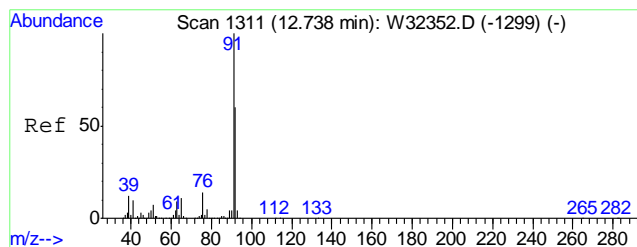
43 100

58 38.1 20.7 60.7

100 16.2 0.0 36.0

85 18.5 0.0 38.1





#66

TOLUENE

Concen: 1.37 PPBV

RT: 12.713 min Scan# 1307

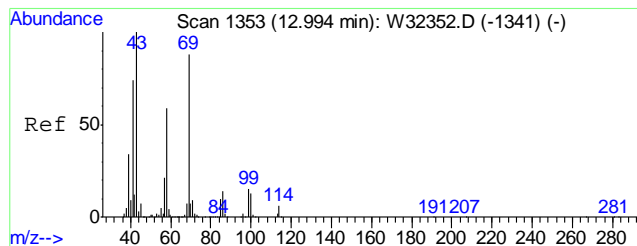
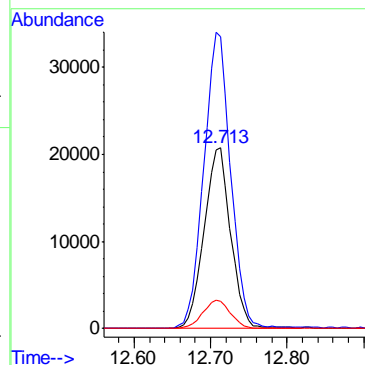
Delta R.T. -0.024 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

Tgt Ion: 92 Resp: 49863

Ion	Ratio	Lower	Upper
92	100		
91	166.2	146.2	186.2
65	16.2	0.4	40.4



#71

2-HEXANONE

Concen: 0.35 PPBV

RT: 12.975 min Scan# 1350

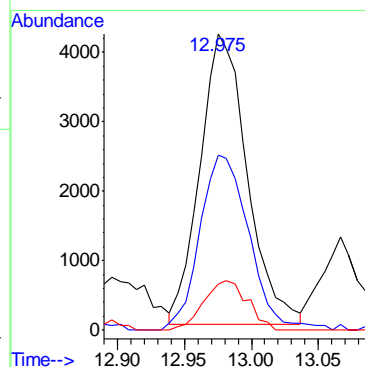
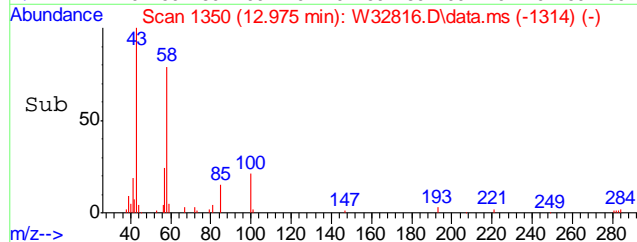
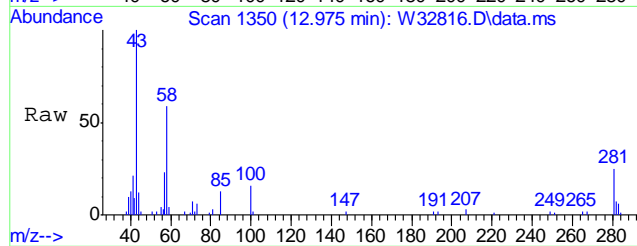
Delta R.T. -0.018 min

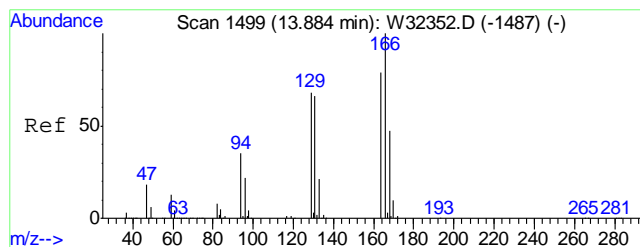
Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

Tgt Ion: 43 Resp: 10193

Ion	Ratio	Lower	Upper
43	100		
58	63.2	39.4	79.4
100	15.7	0.0	33.6





#72

TETRACHLOROETHYLENE

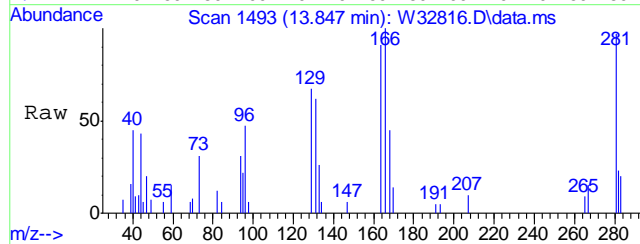
Concen: 0.11 PPBV

RT: 13.847 min Scan# 1493

Delta R.T. -0.037 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm



Tgt Ion: 164 Resp: 2067

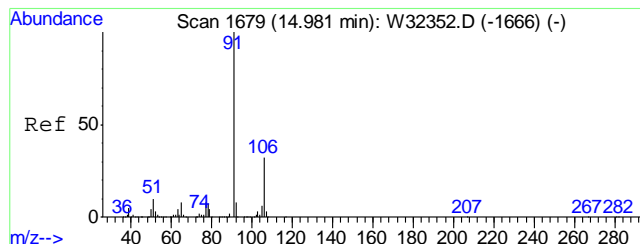
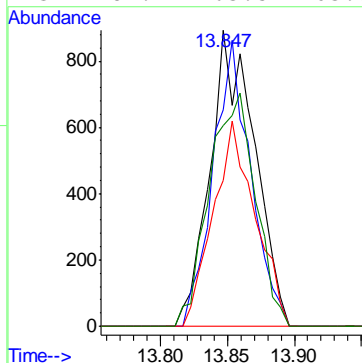
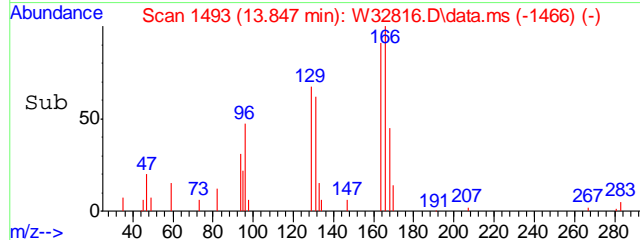
Ion Ratio Lower Upper

164 100

129 81.5 66.3 106.3

168 65.0 41.0 81.0

131 81.4 63.5 103.5



#78

ETHYLBENZENE

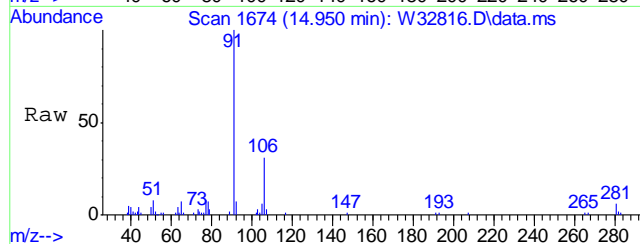
Concen: 0.43 PPBV

RT: 14.950 min Scan# 1674

Delta R.T. -0.031 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm



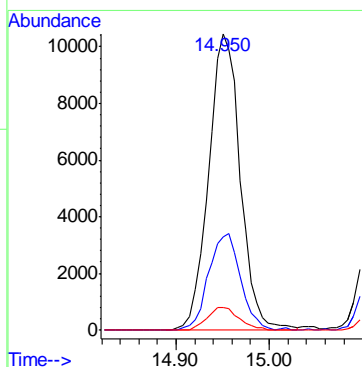
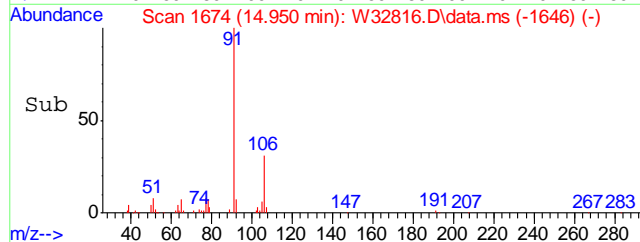
Tgt Ion: 91 Resp: 24875

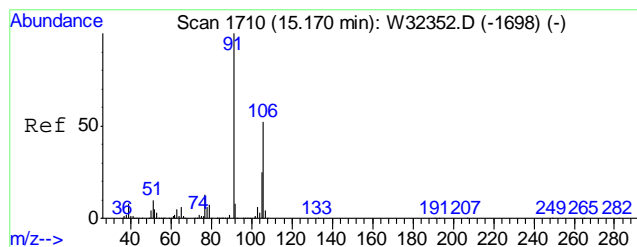
Ion Ratio Lower Upper

91 100

106 32.7 11.7 51.7

77 7.5 0.0 28.1





#79

m,p-XYLENE

Concen: 1.74 PPBV

RT: 15.127 min Scan# 1703

Delta R.T. -0.043 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

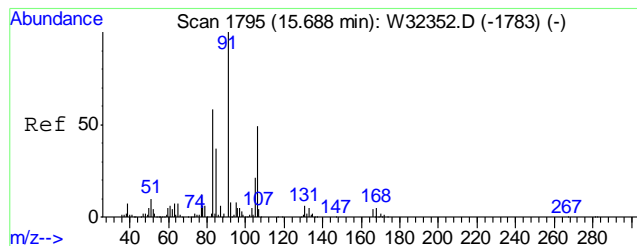
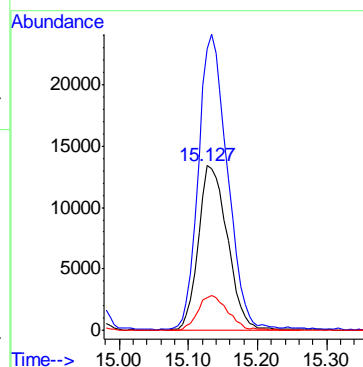
Tgt Ion:106 Resp: 39538

Ion Ratio Lower Upper

106 100

91 170.7 152.6 228.8

77 19.7 19.9 29.9#



#80

o-XYLENE

Concen: 0.73 PPBV

RT: 15.652 min Scan# 1789

Delta R.T. -0.037 min

Lab File: W32816.D

Acq: 20 Jul 2011 8:15 pm

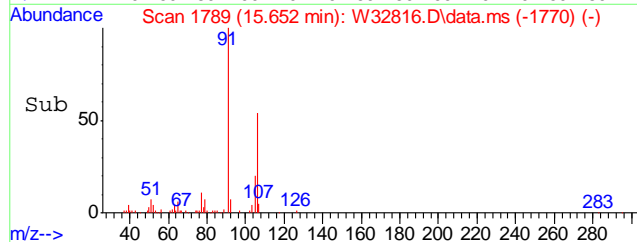
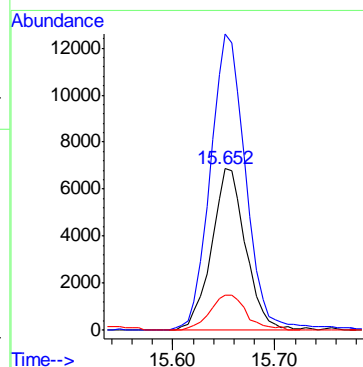
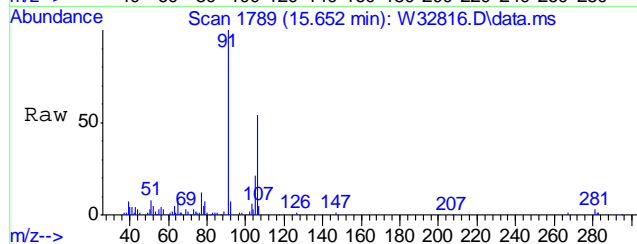
Tgt Ion:106 Resp: 15916

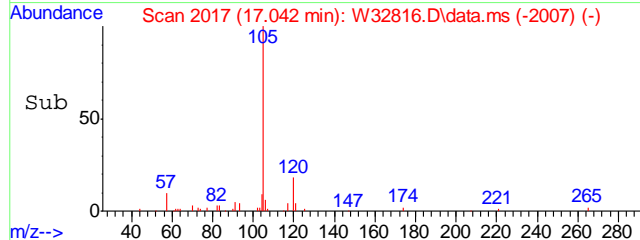
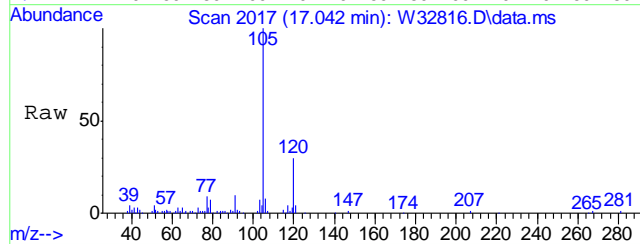
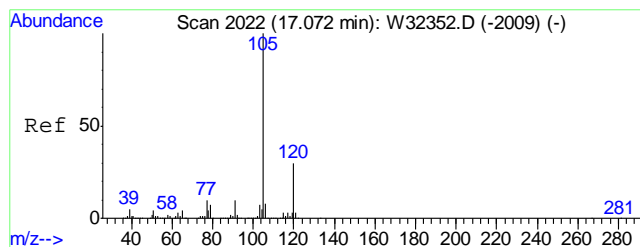
Ion Ratio Lower Upper

106 100

91 191.5 182.1 222.1

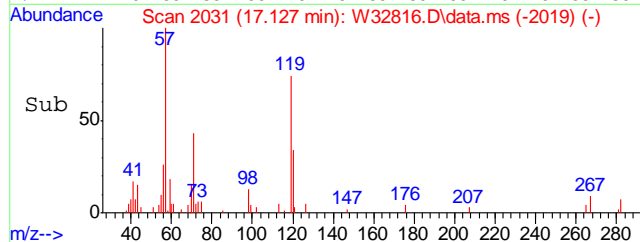
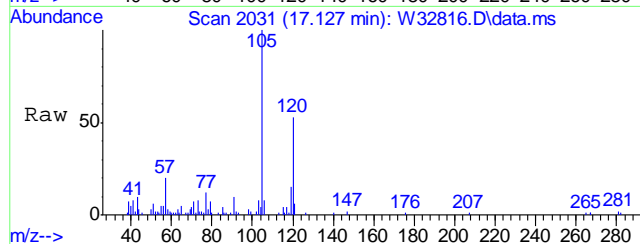
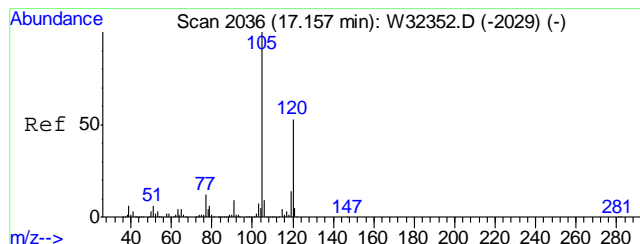
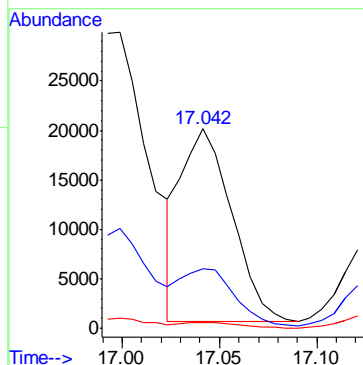
77 23.2 4.0 44.0





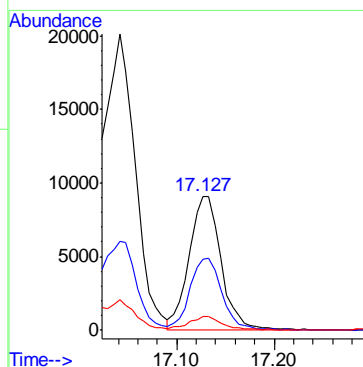
#91
4-ETHYLTOLUENE
Concen: 0.69 PPBV
RT: 17.042 min Scan# 2017
Delta R.T. -0.031 min
Lab File: W32816.D
Acq: 20 Jul 2011 8:15 pm

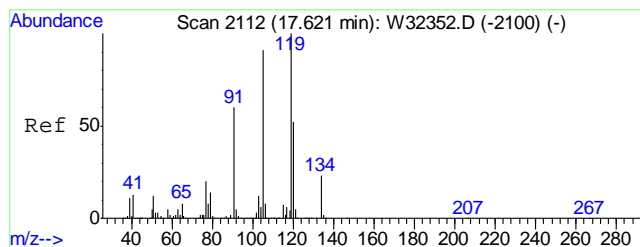
Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.7	9.8	49.8
119	3.1	0.0	22.9



#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.031 min
Lab File: W32816.D
Acq: 20 Jul 2011 8:15 pm

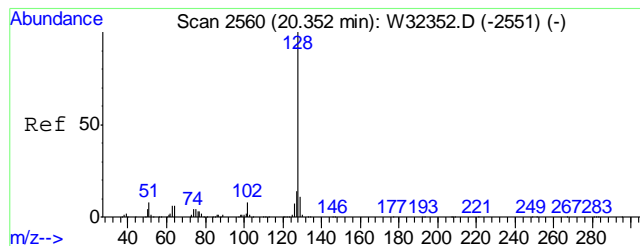
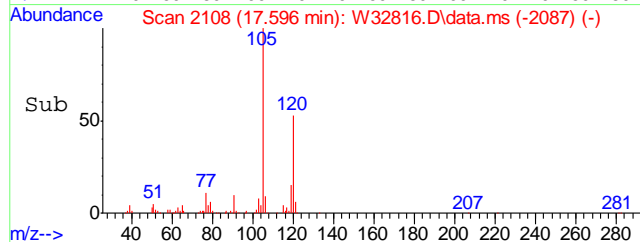
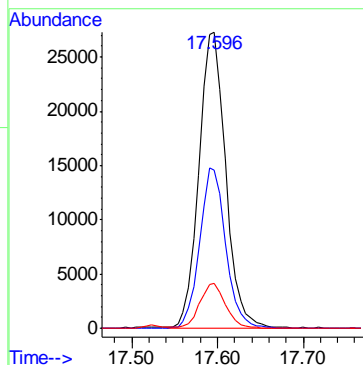
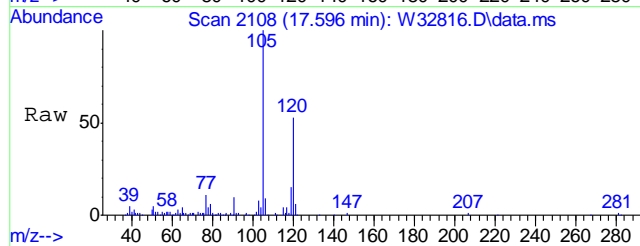
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.4	32.9	72.9
91	10.6	0.0	29.3





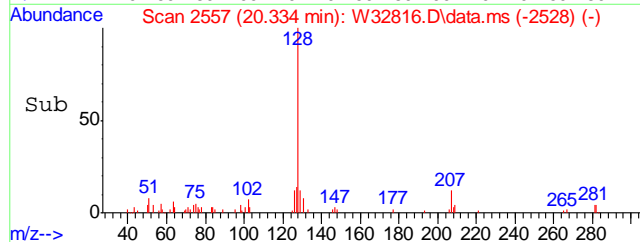
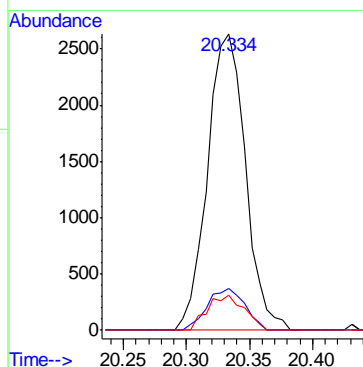
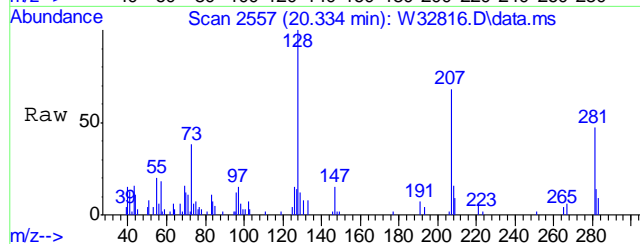
#95
1,2,4-TRIMETHYLBENZENE
Concen: 1.53 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32816.D
Acq: 20 Jul 2011 8:15 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.5	39.3	79.3
119	14.7	101.1	141.1#



#107
NAPHTHALENE
Concen: 0.63 PPBV
RT: 20.334 min Scan# 2557
Delta R.T. -0.018 min
Lab File: W32816.D
Acq: 20 Jul 2011 8:15 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.9	0.0	34.3
129	11.5	0.0	30.7



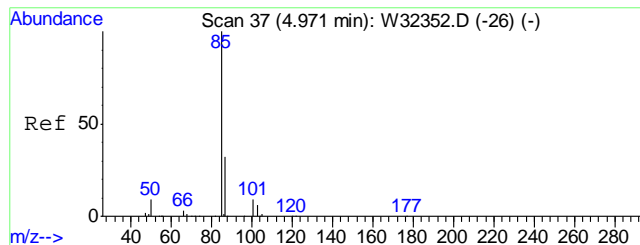
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32808.D
 Acq On : 20 Jul 2011 2:46 pm
 Operator : YOUMINH
 Sample : JA81330-2
 Misc : MS15514,VW1341,400,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 00:24:41 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

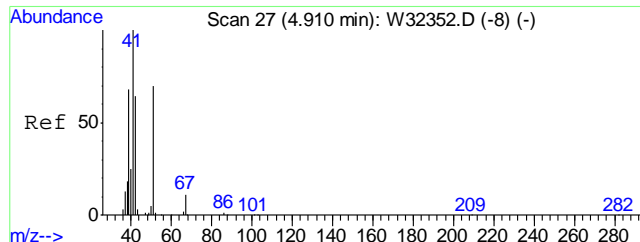
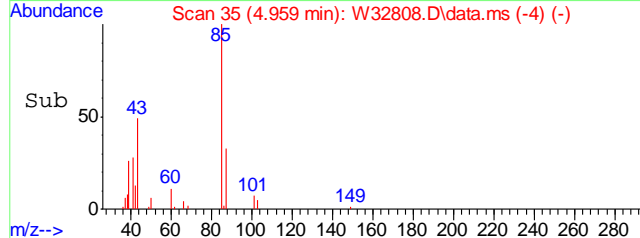
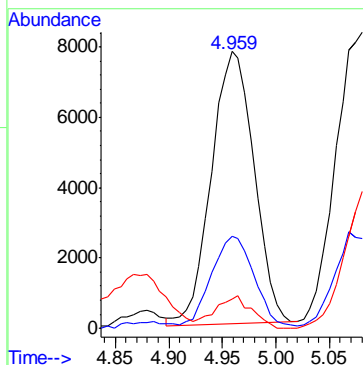
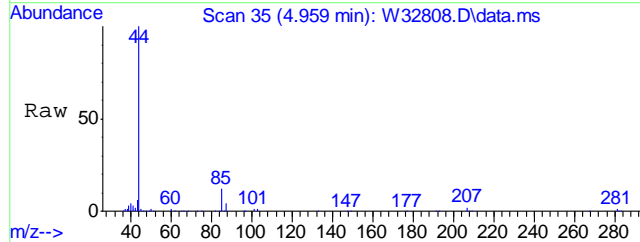
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	139668	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	681372	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	295882	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	294028	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	159826	5.00	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	100.00%
Target Compounds						
					Qvalue	
5) DICHLORODIFLUOROMETHANE	4.959	85	21455	0.52	PPBV	98
6) PROPYLENE	4.910	41	72302	4.14	PPBV	82
8) CHLOROMETHANE	5.093	52	4395	0.83	PPBV	91
13) CHLOROETHANE	5.727	64	1120	0.11	PPBV	87
18) TRICHLOROFLUOROMETHANE	6.294	101	11431	0.29	PPBV	98
19) ISOPROPYL ALCOHOL	6.349	45	526868	15.48	PPBV	99
20) ACETONE	6.153	58	1118475	125.18	PPBV #	88
26) CARBON DISULFIDE	7.129	76	21952	0.52	PPBV	92
27) ETHANOL	5.812	45	1567532	175.38	PPBV	98
30) METHYLENE CHLORIDE	6.861	84	4526	0.27	PPBV	95
32) FREON 113	7.056	151	2887	0.10	PPBV	90
34) TERTIARY BUTYL ALCOHOL	6.812	59	464543	11.79	PPBV	93
36) TETRAHYDROFURAN	9.074	72	9509	1.16	PPBV	97
37) HEXANE	8.598	57	67709	2.23	PPBV #	83
40) METHYL ETHYL KETONE	8.080	72	50000	5.97	PPBV #	68
43) ETHYL ACETATE	8.610	61	25289	4.67	PPBV #	1
45) CHLOROFORM	8.696	83	10205	0.31	PPBV	96
49) 1,2-DICHLOROETHANE	9.336	62	11818	0.63	PPBV	99
51) BENZENE	9.976	78	96042	1.85	PPBV	97
52) CYCLOHEXANE	10.226	84	18706	0.71	PPBV	82
54) TRICHLOROETHYLENE	10.939	95	10166	0.50	PPBV	91
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	93271	1.04	PPBV	93
62) HEPTANE	11.183	43	49744	1.49	PPBV	96
64) METHYL ISOBUTYL KETONE	11.793	43	10154	0.28	PPBV	92
66) TOLUENE	12.707	92	518327	14.86	PPBV	98
71) 2-HEXANONE	12.975	43	15268	0.52	PPBV	95
72) TETRACHLOROETHYLENE	13.853	164	22554	1.15	PPBV	94
78) ETHYLBENZENE	14.951	91	225429	3.83	PPBV	98
79) m,p-XYLENE	15.133	106	338727	14.85	PPBV	91
80) o-XYLENE	15.652	106	141667	6.43	PPBV	93
81) STYRENE	15.542	104	15898	0.51	PPBV	99
87) ISOPROPYLBENZENE	16.304	105	48126	0.78	PPBV	98
91) 4-ETHYLTOLUENE	17.042	105	297737	5.77	PPBV	97
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	151872	3.56	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	408940	10.47	PPBV #	32
107) NAPHTHALENE	20.334	128	4143	0.47	PPBV	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed



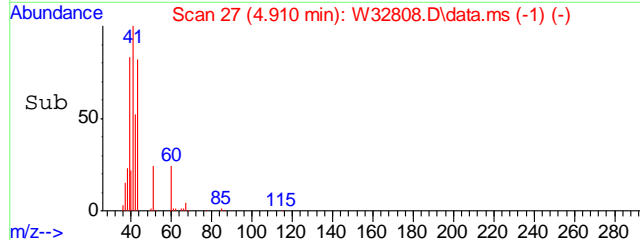
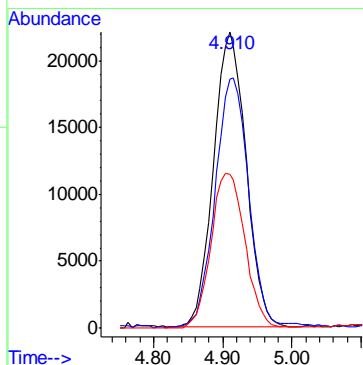
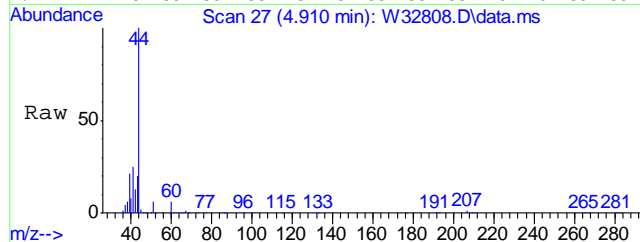
#5
DICHLORODIFLUOROMETHANE
Concen: 0.52 PPBV
RT: 4.959 min Scan# 35
Delta R.T. -0.012 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

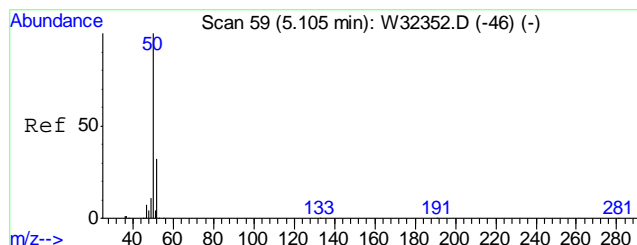
Tgt Ion:	85	Resp:	21455
Ion Ratio	Lower	Upper	
85	100		
87	33.0	12.0	52.0
50	10.4	0.0	30.7



#6
PROPYLENE
Concen: 4.14 PPBV
RT: 4.910 min Scan# 27
Delta R.T. -0.000 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

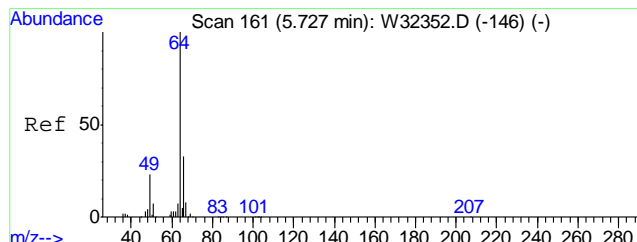
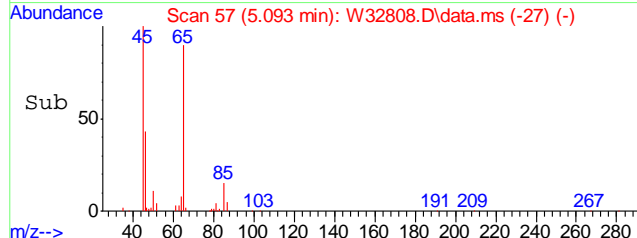
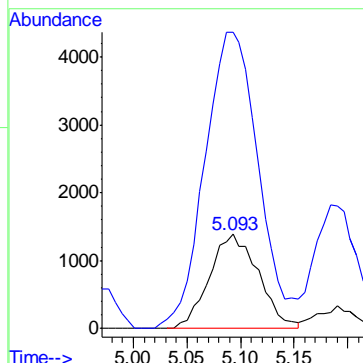
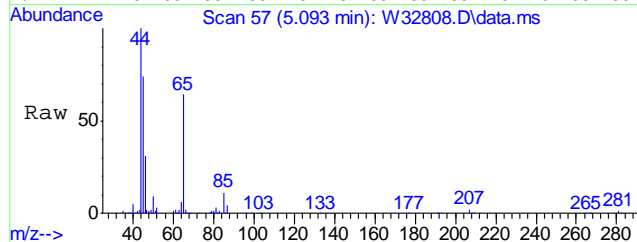
Tgt Ion:	41	Resp:	72302
Ion Ratio	Lower	Upper	
41	100		
39	84.1	47.7	87.7
42	51.8	43.7	83.7





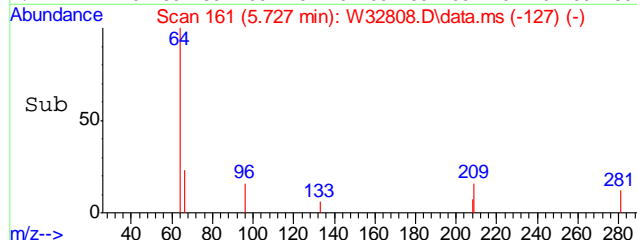
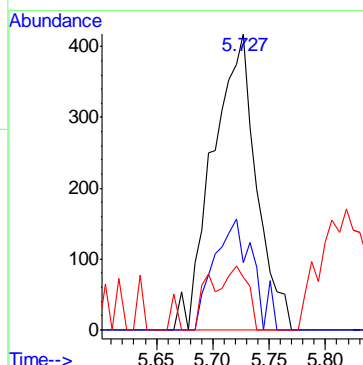
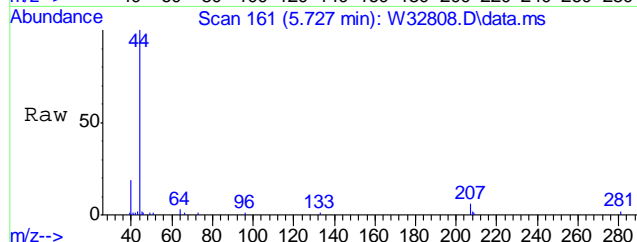
#8
CHLOROMETHANE
Concen: 0.83 PPBV
RT: 5.093 min Scan# 57
Delta R.T. -0.012 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

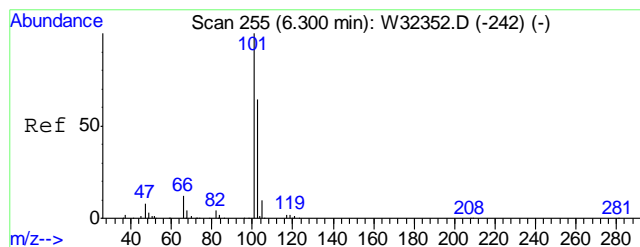
Tgt Ion: 52 Resp: 4395
Ion Ratio Lower Upper
52 100
50 305.3 268.6 308.6



#13
CHLOROETHANE
Concen: 0.11 PPBV
RT: 5.727 min Scan# 161
Delta R.T. -0.000 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

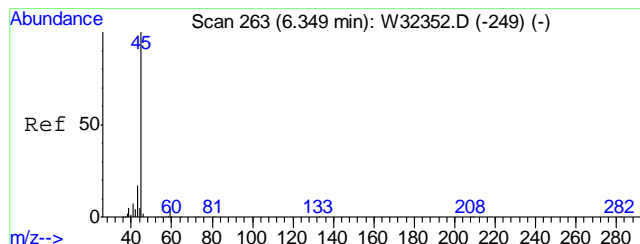
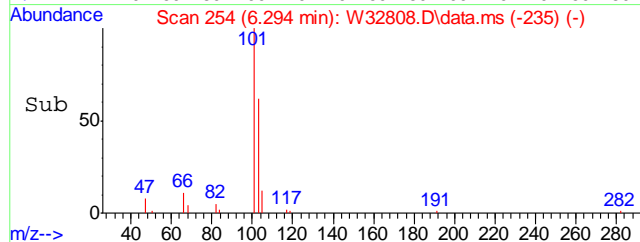
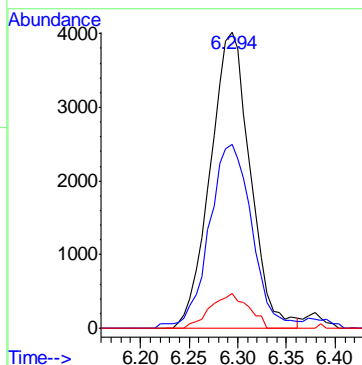
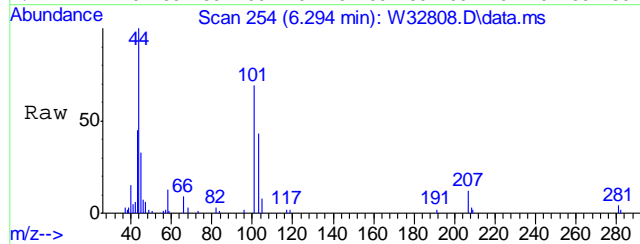
Tgt Ion: 64 Resp: 1120
Ion Ratio Lower Upper
64 100
66 33.5 14.5 54.5
49 11.7 5.7 45.7





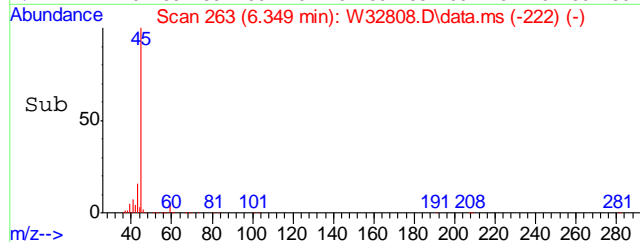
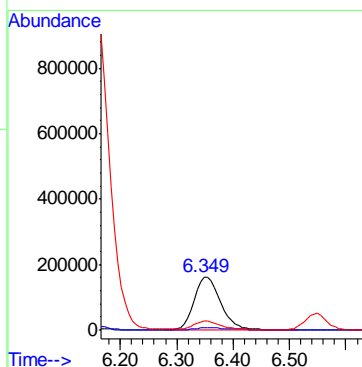
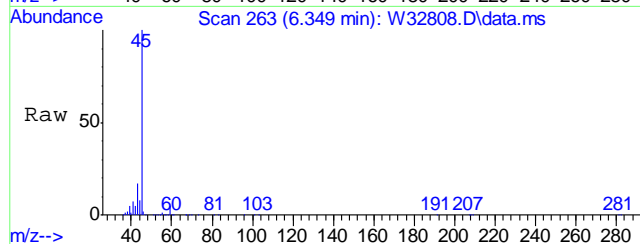
#18
TRICHLOROFLUOROMETHANE
Concen: 0.29 PPBV
RT: 6.294 min Scan# 254
Delta R.T. -0.006 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

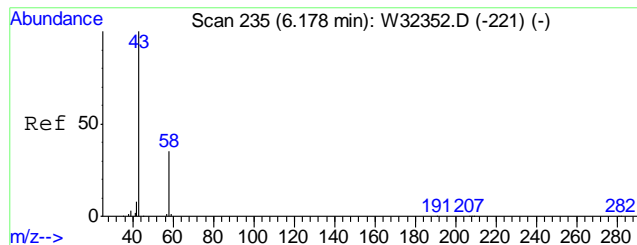
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.5	44.9	84.9
105	11.2	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 15.48 PPBV
RT: 6.349 min Scan# 263
Delta R.T. -0.000 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

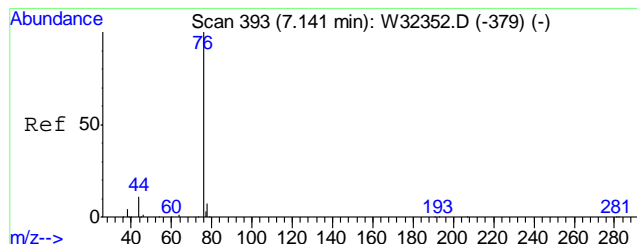
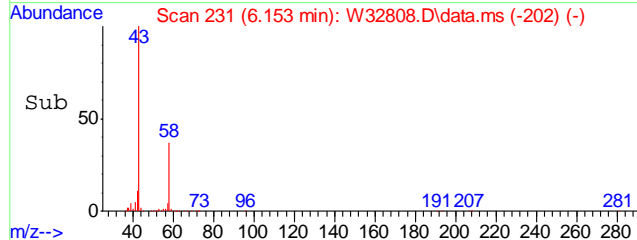
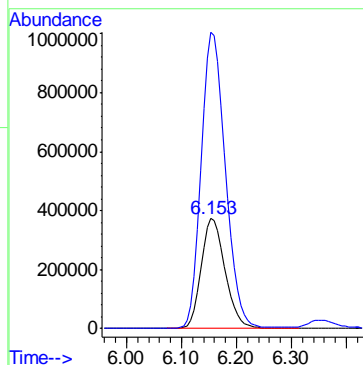
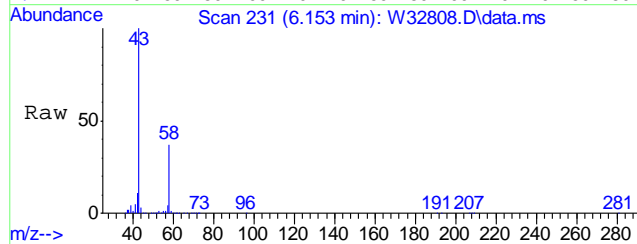
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.7	0.0	24.3
43	17.3	0.0	37.5





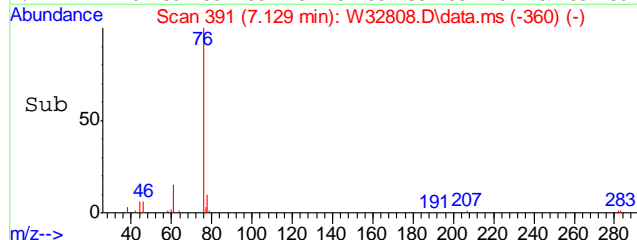
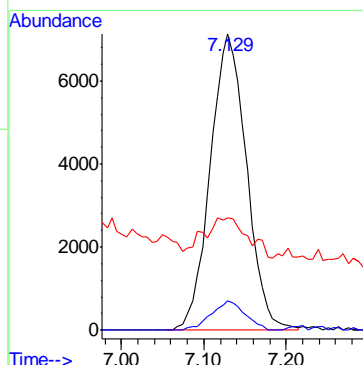
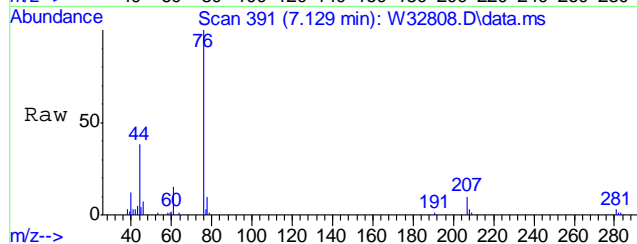
#20
 ACETONE
 Concen: 125.18 PPBV
 RT: 6.153 min Scan# 231
 Delta R.T. -0.024 min
 Lab File: W32808.D
 Acq: 20 Jul 2011 2:46 pm

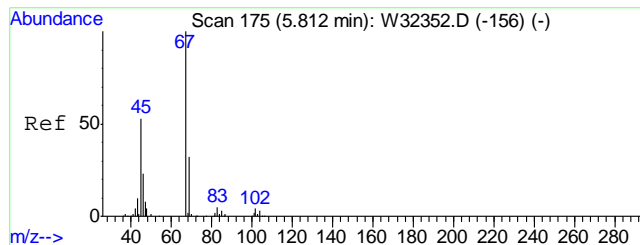
Tgt Ion: 58 Resp: 1118475
 Ion Ratio Lower Upper
 58 100
 43 274.1 277.6 317.6#



#26
 CARBON DISULFIDE
 Concen: 0.52 PPBV
 RT: 7.129 min Scan# 391
 Delta R.T. -0.012 min
 Lab File: W32808.D
 Acq: 20 Jul 2011 2:46 pm

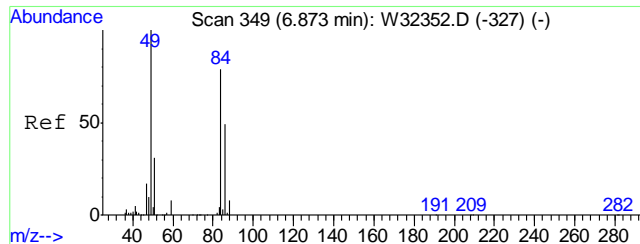
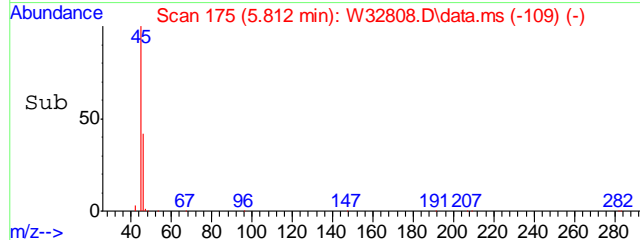
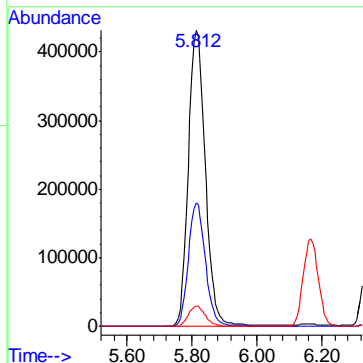
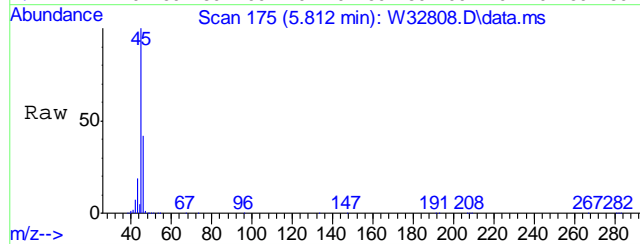
Tgt Ion: 76 Resp: 21952
 Ion Ratio Lower Upper
 76 100
 78 9.1 0.0 28.9
 44 16.4 0.0 31.0





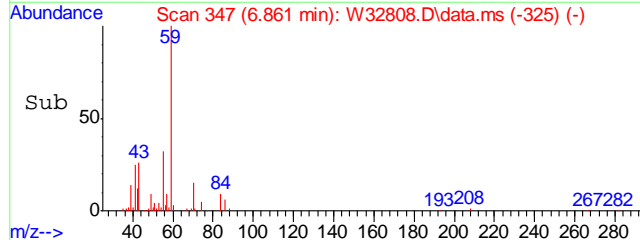
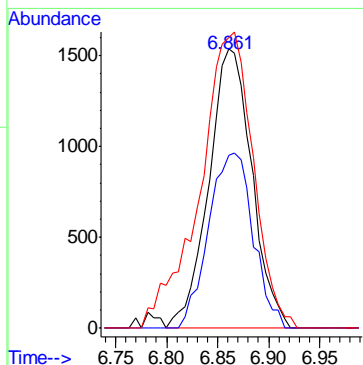
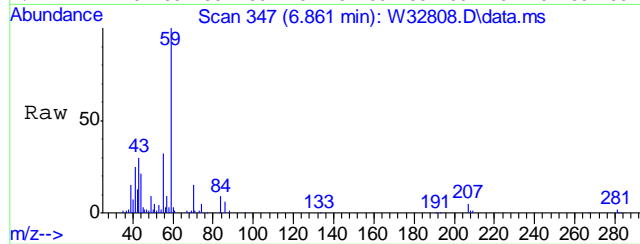
#27
ETHANOL
Concen: 175.38 PPBV
RT: 5.812 min Scan# 175
Delta R.T. -0.000 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

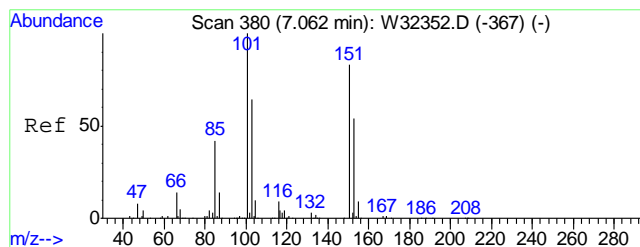
Tgt Ion: 45 Resp: 1567532
Ion Ratio Lower Upper
45 100
46 41.6 20.6 60.6
42 6.8 0.0 28.7



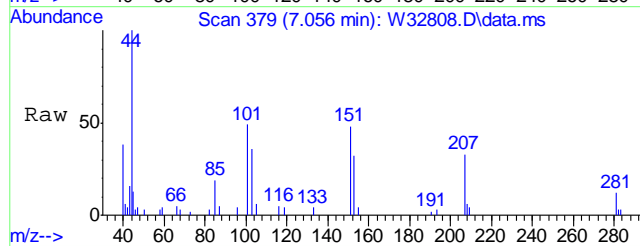
#30
METHYLENE CHLORIDE
Concen: 0.27 PPBV
RT: 6.861 min Scan# 347
Delta R.T. -0.012 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

Tgt Ion: 84 Resp: 4526
Ion Ratio Lower Upper
84 100
86 64.7 42.9 82.9
49 131.4 0.0 324.2

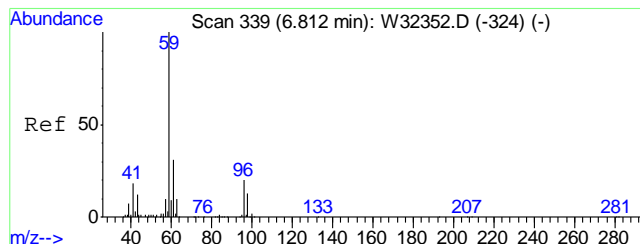
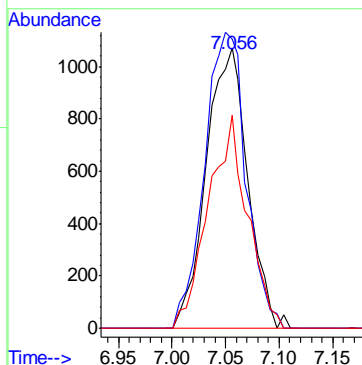
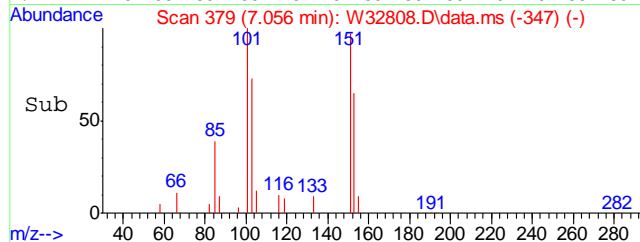




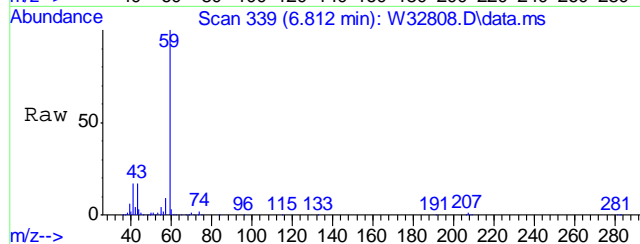
#32
FREON 113
Concen: 0.10 PPBV
RT: 7.056 min Scan# 379
Delta R.T. -0.006 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm



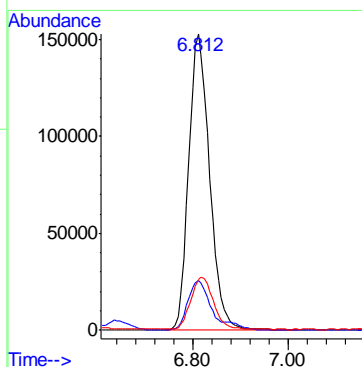
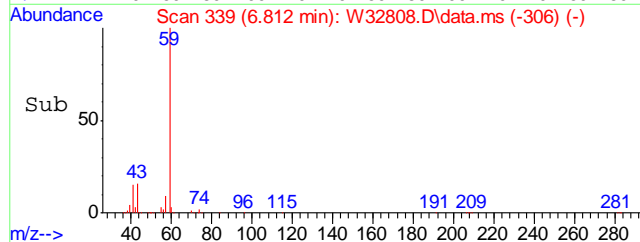
Tgt Ion: 151 Resp: 2887
Ion Ratio Lower Upper
151 100
101 105.7 99.1 139.1
103 71.9 56.9 96.9

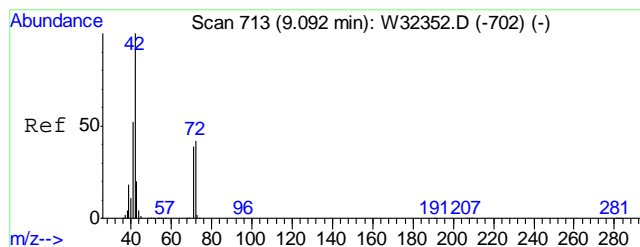


#34
TERTIARY BUTYL ALCOHOL
Concen: 11.79 PPBV
RT: 6.812 min Scan# 339
Delta R.T. -0.000 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm



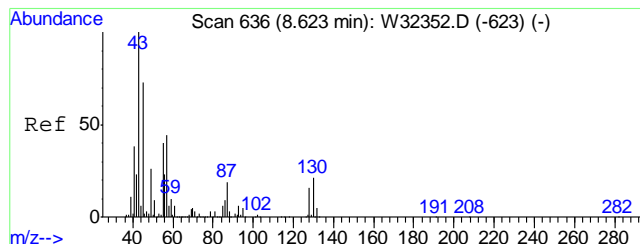
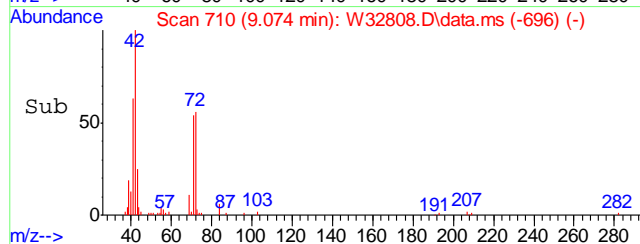
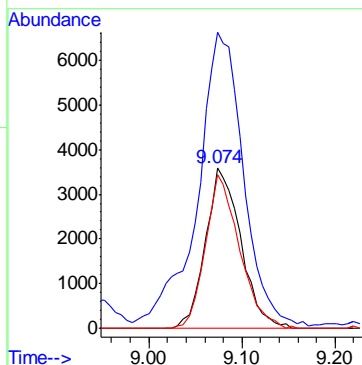
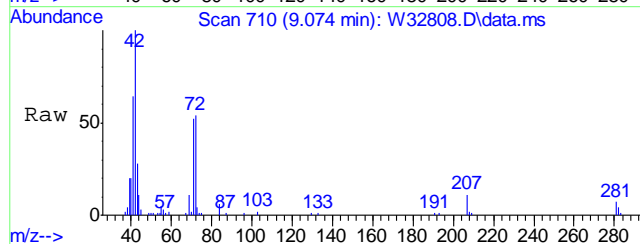
Tgt Ion: 59 Resp: 464543
Ion Ratio Lower Upper
59 100
41 19.2 0.0 39.2
43 19.2 0.0 32.1





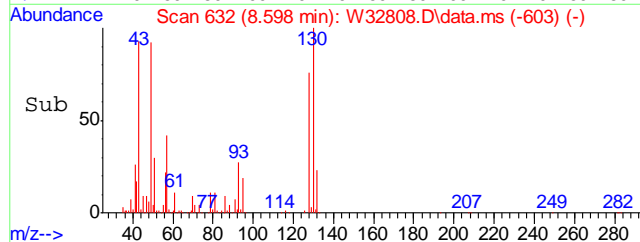
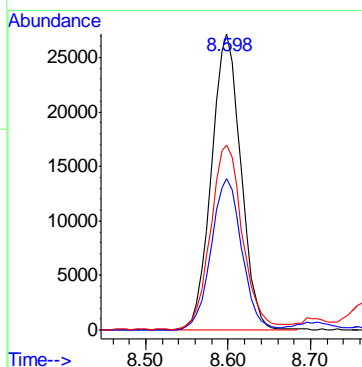
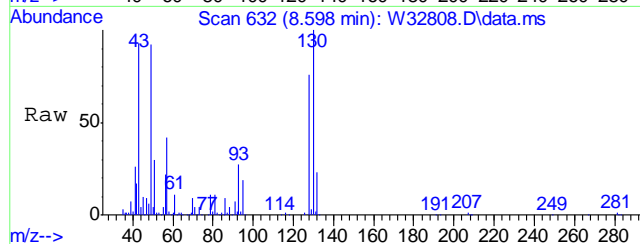
#36
TETRAHYDROFURAN
Concen: 1.16 PPBV
RT: 9.074 min Scan# 710
Delta R.T. -0.018 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

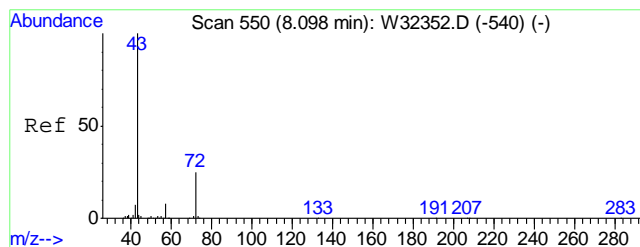
Tgt Ion:	72	Resp:	9509
Ion Ratio	Lower	Upper	
72	100		
42	233.4	220.0	260.0
71	92.8	74.2	114.2



#37
HEXANE
Concen: 2.23 PPBV
RT: 8.598 min Scan# 632
Delta R.T. -0.024 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

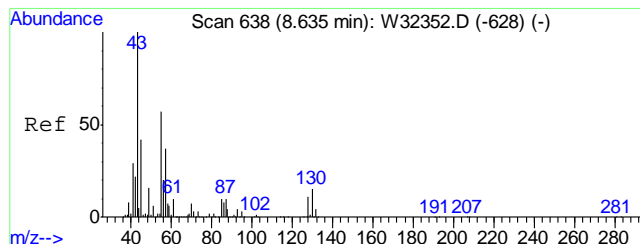
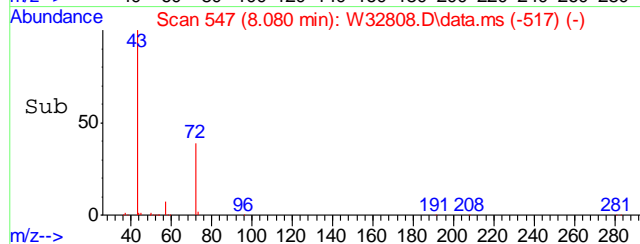
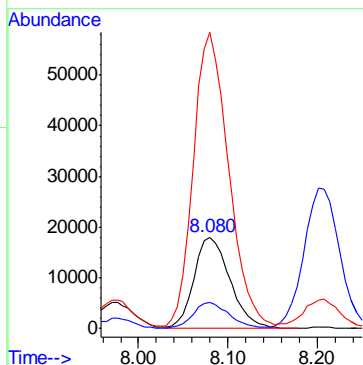
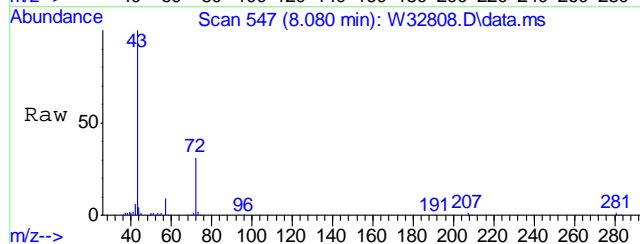
Tgt Ion:	57	Resp:	67709
Ion Ratio	Lower	Upper	
57	100		
56	53.3	33.7	73.7
41	68.4	74.5	114.5#





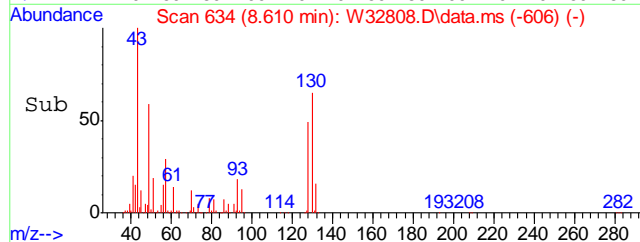
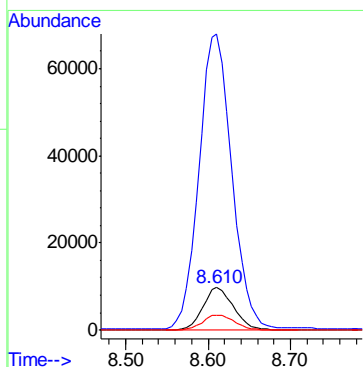
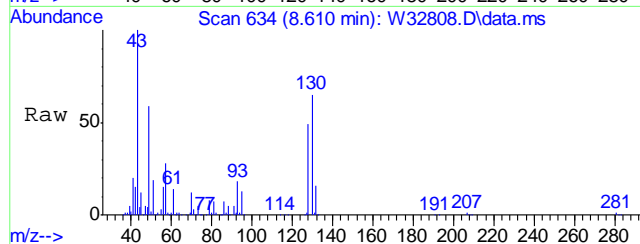
#40
METHYL ETHYL KETONE
Concen: 5.97 PPBV
RT: 8.080 min Scan# 547
Delta R.T. -0.018 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

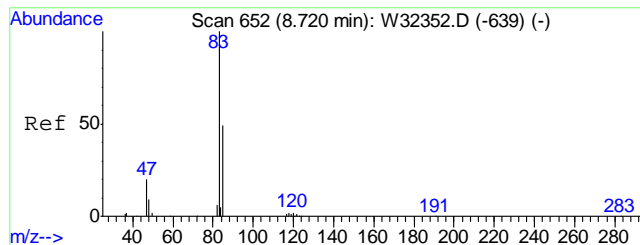
Tgt Ion: 72 Resp: 50000
Ion Ratio Lower Upper
72 100
57 28.3 11.1 51.1
43 324.3 386.1 426.1#



#43
ETHYL ACETATE
Concen: 4.67 PPBV
RT: 8.610 min Scan# 634
Delta R.T. -0.024 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

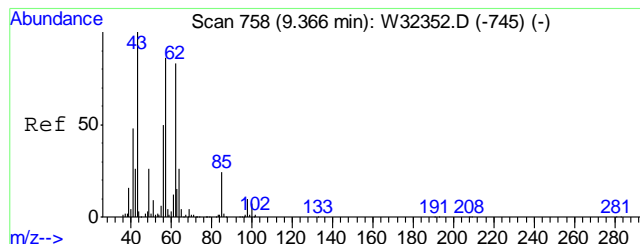
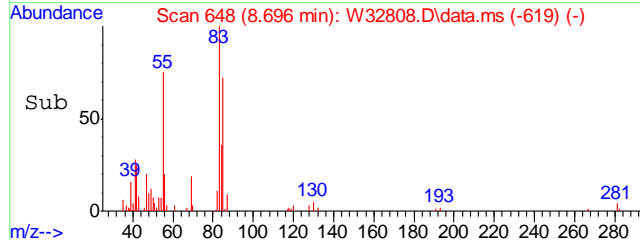
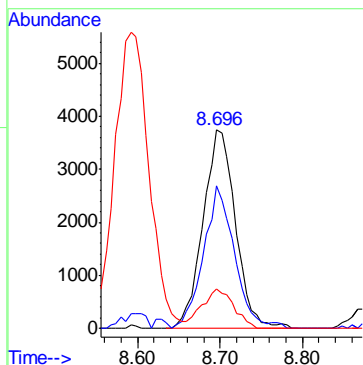
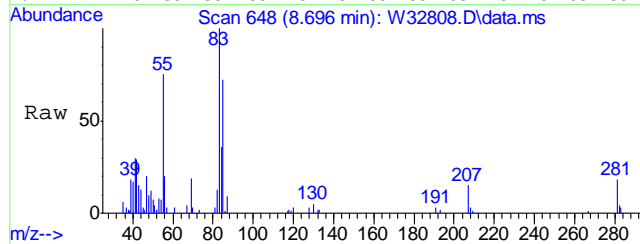
Tgt Ion: 61 Resp: 25289
Ion Ratio Lower Upper
61 100
43 739.2 1488.2 1528.2#
88 35.5 27.8 67.8





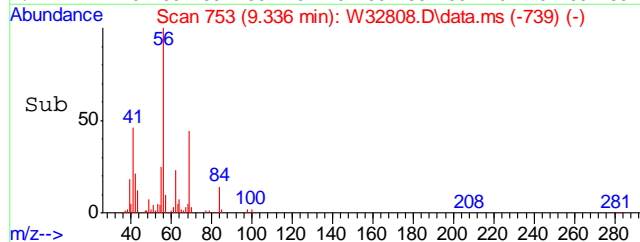
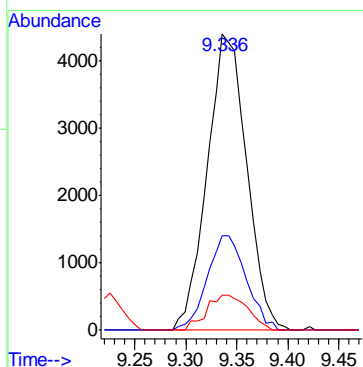
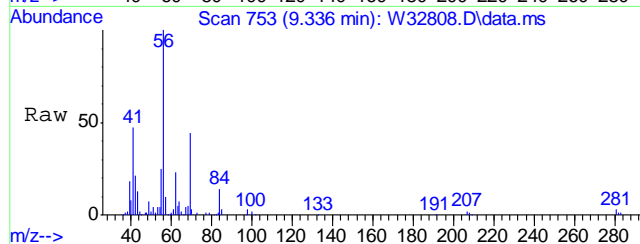
#45
CHLOROFORM
Concen: 0.31 PPBV
RT: 8.696 min Scan# 648
Delta R.T. -0.024 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

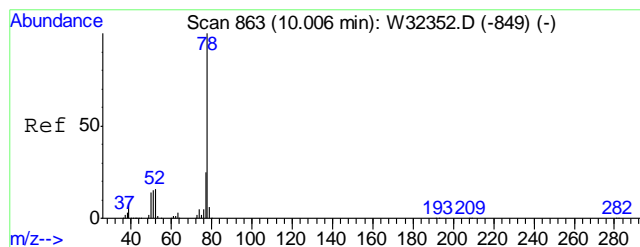
Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.7	44.6	84.6
47	19.8	2.6	42.6



#49
1,2-DICHLOROETHANE
Concen: 0.63 PPBV
RT: 9.336 min Scan# 753
Delta R.T. -0.031 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

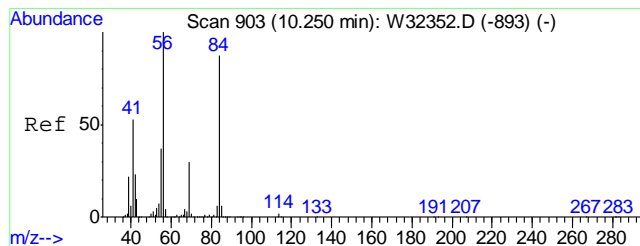
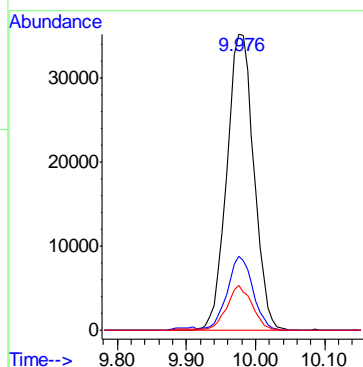
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.5	12.3	52.3
98	12.3	0.0	32.0





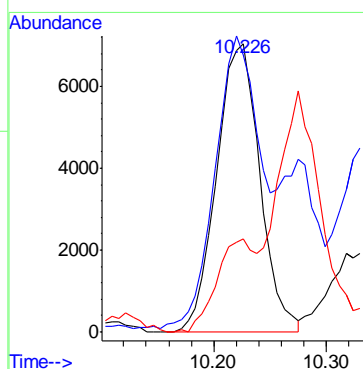
#51
BENZENE
Concen: 1.85 PPBV
RT: 9.976 min Scan# 858
Delta R.T. -0.031 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

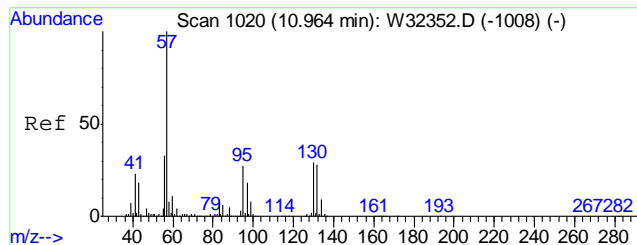
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	4.7	44.7
52	14.2	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.71 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.024 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

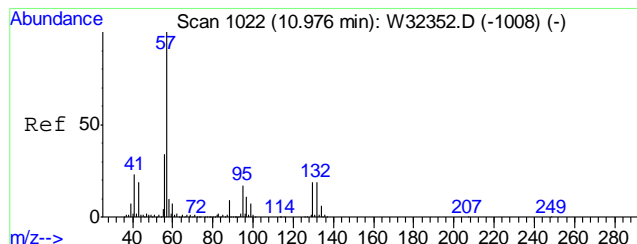
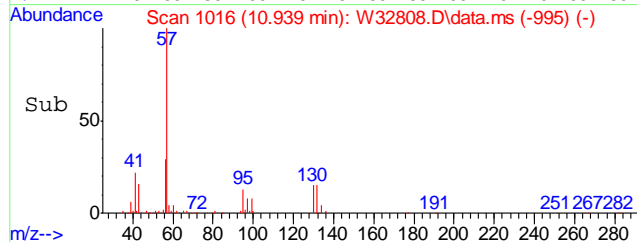
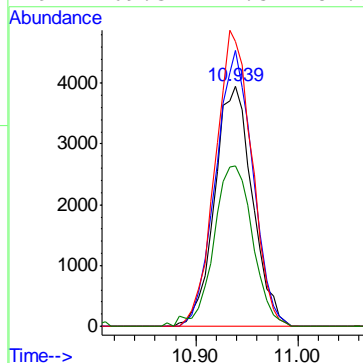
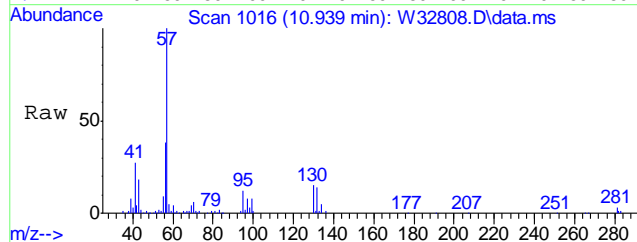
Tgt Ion	Ratio	Lower	Upper
84	100		
56	103.4	102.7	142.7
69	28.9	20.8	60.8





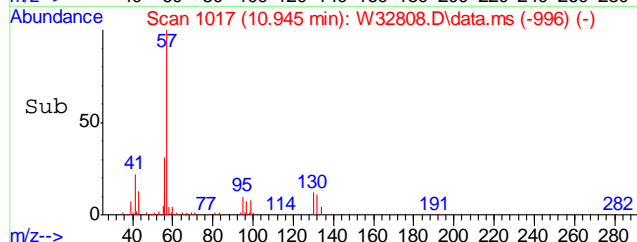
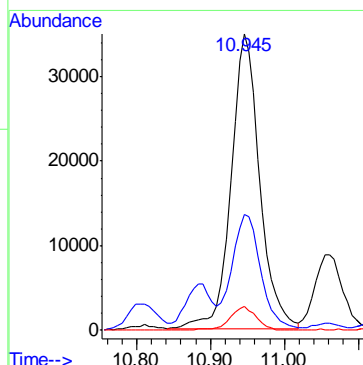
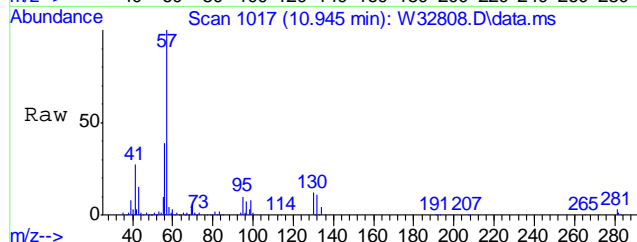
#54
TRICHLOROETHYLENE
Concen: 0.50 PPBV
RT: 10.939 min Scan# 1016
Delta R.T. -0.024 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

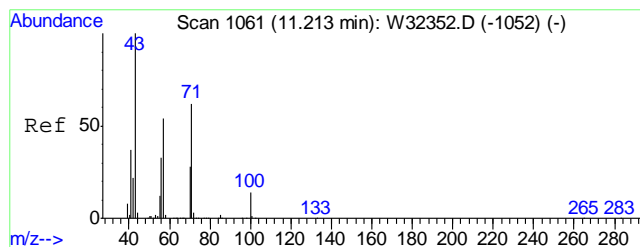
Tgt Ion	Ratio	Lower	Upper
95	100		
132	112.6	84.3	124.3
130	119.4	88.4	128.4
97	69.3	44.5	84.5



#59
2,2,4-TRIMETHYLPENTANE
Concen: 1.04 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.031 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

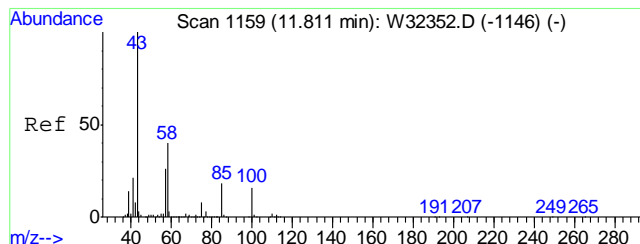
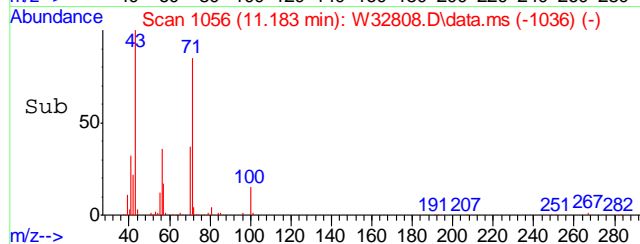
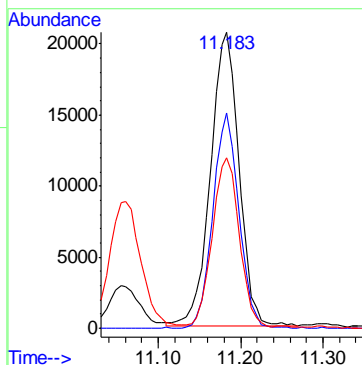
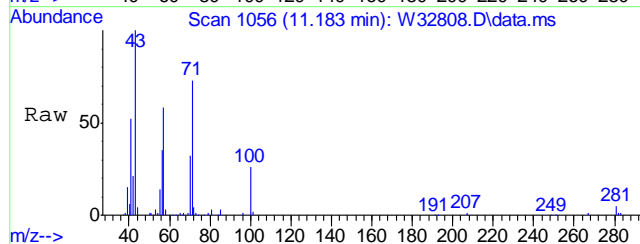
Tgt Ion	Ratio	Lower	Upper
57	100		
56	38.2	13.5	53.5
99	7.3	0.0	27.7





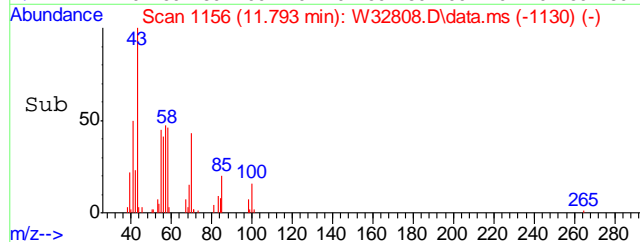
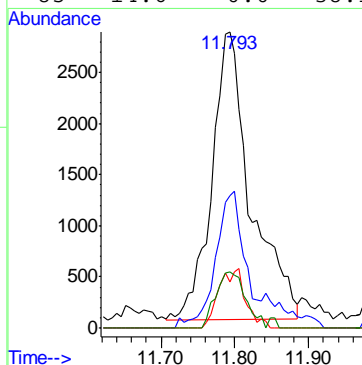
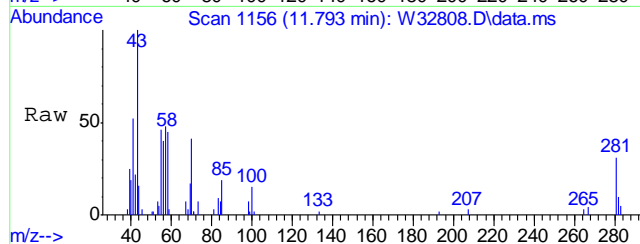
#62
HEPTANE
Concen: 1.49 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

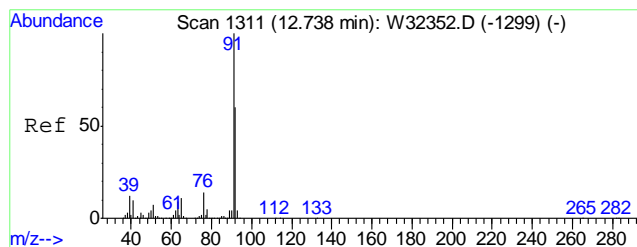
Tgt Ion	Ratio	Lower	Upper
43	100		
71	67.2	41.6	81.6
57	55.1	34.6	74.6



#64
METHYL ISOBUTYL KETONE
Concen: 0.28 PPBV
RT: 11.793 min Scan# 1156
Delta R.T. -0.018 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

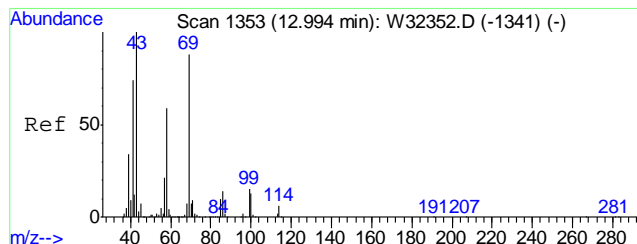
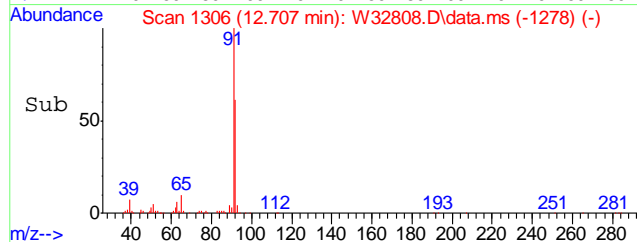
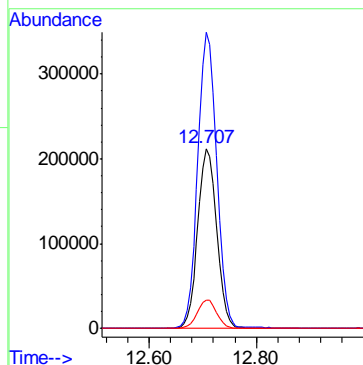
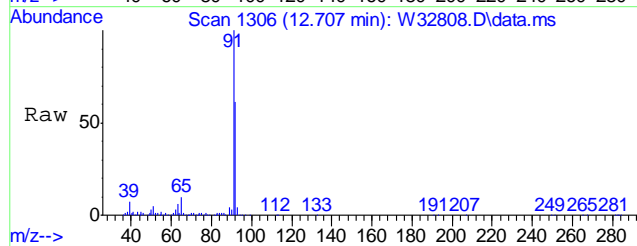
Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.2	20.7	60.7
100	14.0	0.0	36.0
85	14.6	0.0	38.1





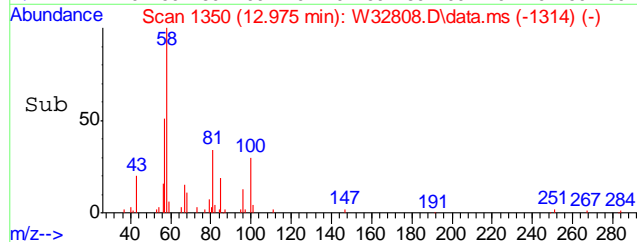
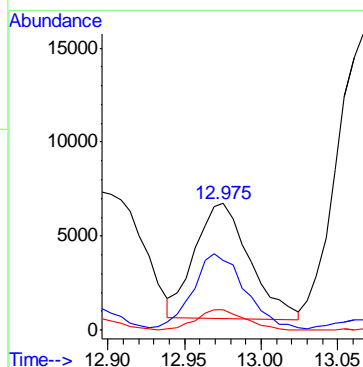
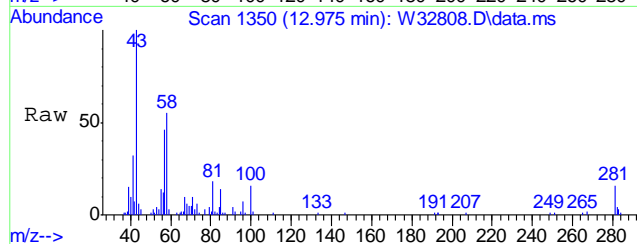
#66
TOLUENE
Concen: 14.86 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.030 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

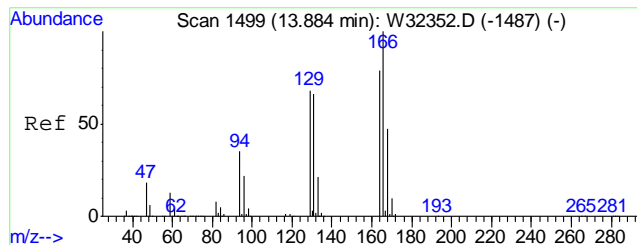
Tgt Ion	Ratio	Lower	Upper
92	100		
91	164.5	146.2	186.2
65	15.9	0.4	40.4



#71
2-HEXANONE
Concen: 0.52 PPBV
RT: 12.975 min Scan# 1350
Delta R.T. -0.018 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

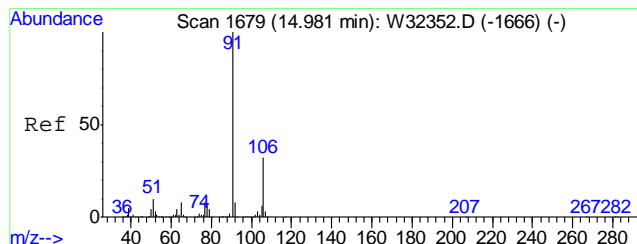
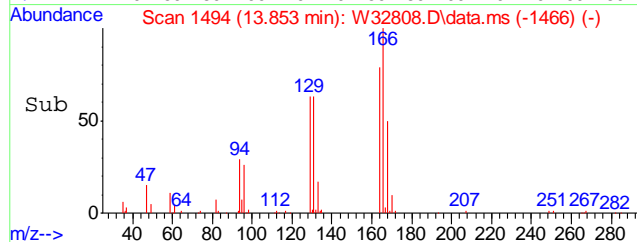
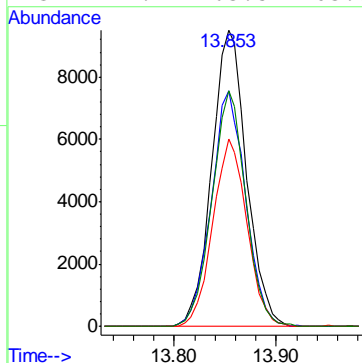
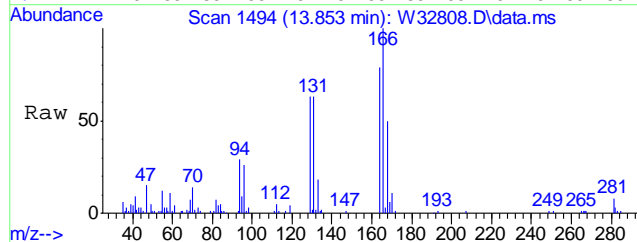
Tgt Ion	Ratio	Lower	Upper
43	100		
58	62.6	39.4	79.4
100	16.1	0.0	33.6





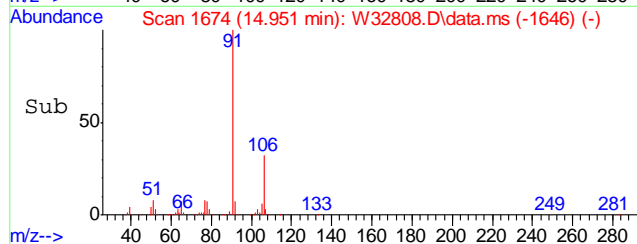
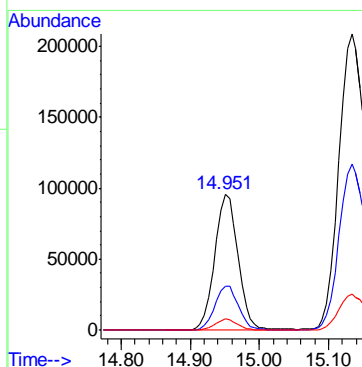
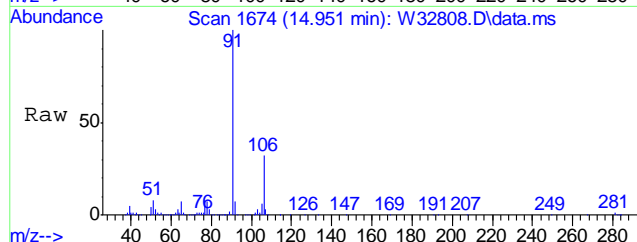
#72
TETRACHLOROETHYLENE
Concen: 1.15 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.030 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

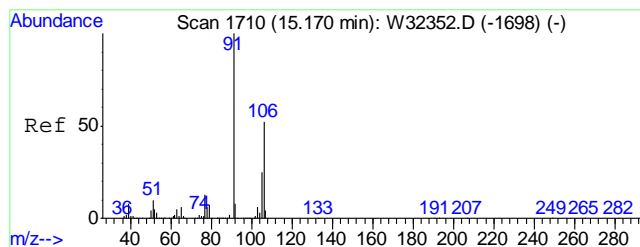
Tgt Ion:	164	Resp:	22554
Ion Ratio	Lower	Upper	
164	100		
129	78.8	66.3	106.3
168	62.0	41.0	81.0
131	77.4	63.5	103.5



#78
ETHYLBENZENE
Concen: 3.83 PPBV
RT: 14.951 min Scan# 1674
Delta R.T. -0.031 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

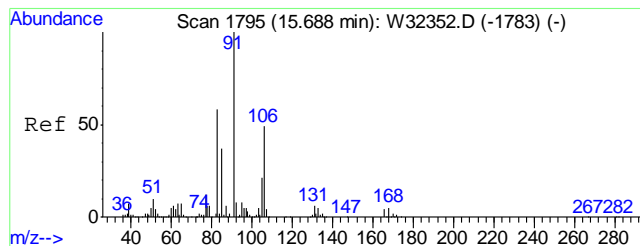
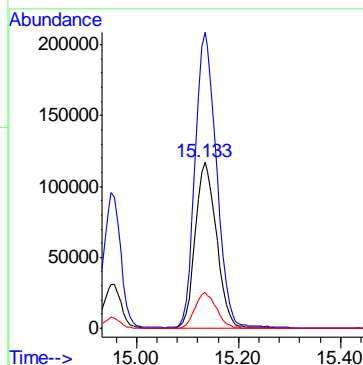
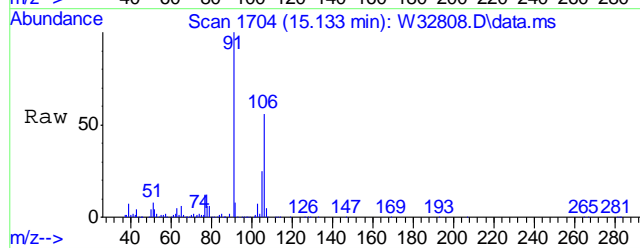
Tgt Ion:	91	Resp:	225429
Ion Ratio	Lower	Upper	
91	100		
106	33.0	11.7	51.7
77	7.6	0.0	28.1





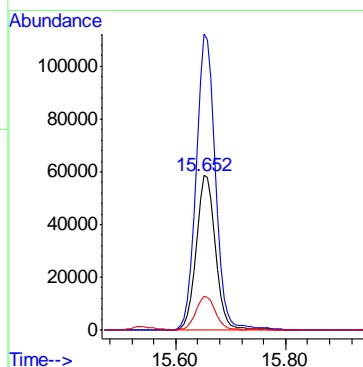
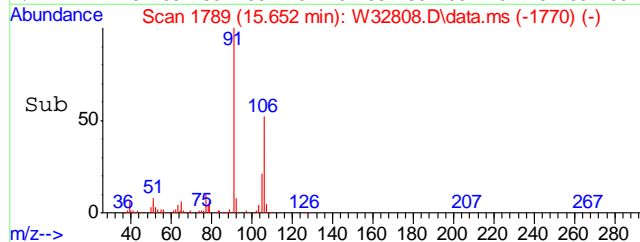
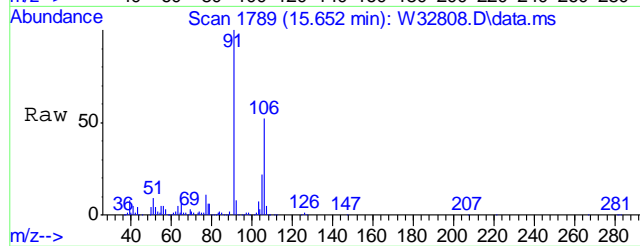
#79
m,p-XYLENE
Concen: 14.85 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

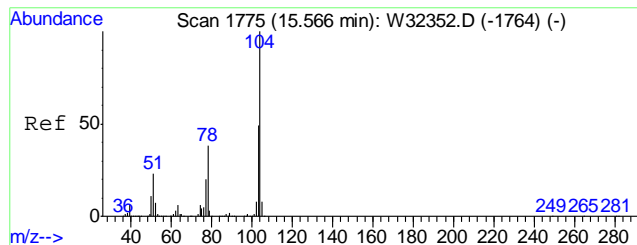
Tgt Ion	Ratio	Lower	Upper
106	100		
91	177.9	152.6	228.8
77	21.4	19.9	29.9



#80
o-XYLENE
Concen: 6.43 PPBV
RT: 15.652 min Scan# 1789
Delta R.T. -0.037 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

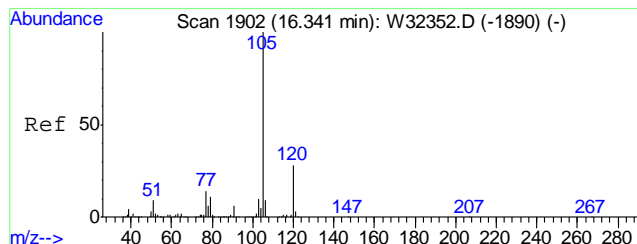
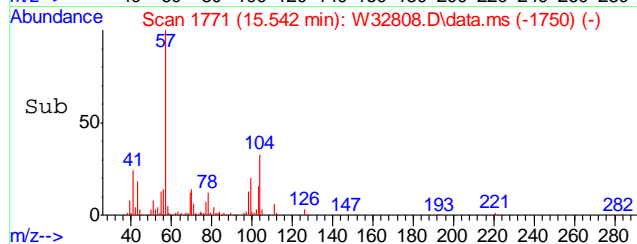
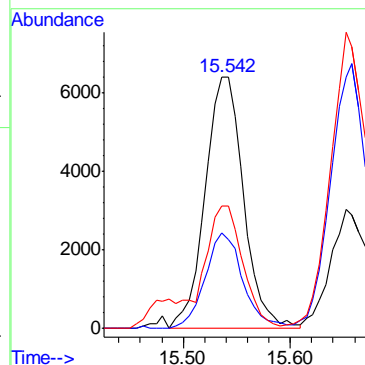
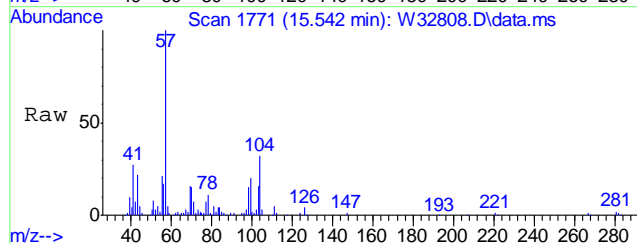
Tgt Ion	Ratio	Lower	Upper
106	100		
91	191.1	182.1	222.1
77	22.0	4.0	44.0





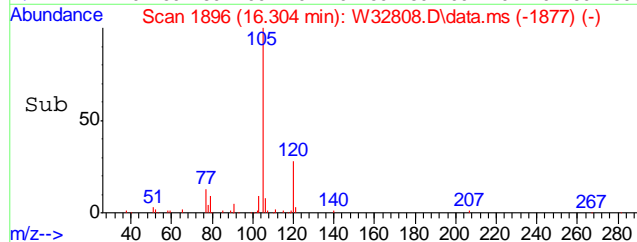
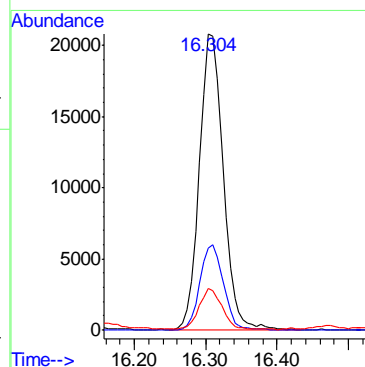
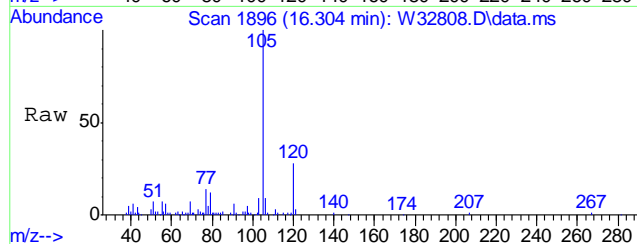
#81
 STYRENE
 Concen: 0.51 PPBV
 RT: 15.542 min Scan# 1771
 Delta R.T. -0.024 min
 Lab File: W32808.D
 Acq: 20 Jul 2011 2:46 pm

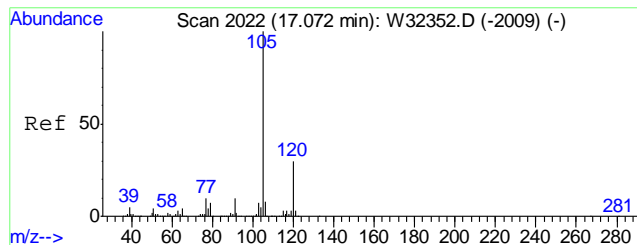
Tgt Ion:	104	Resp:	15898
Ion Ratio	Lower	Upper	
104	100		
78	37.7	18.2	58.2
103	47.1	28.2	68.2



#87
 ISOPROPYLBENZENE
 Concen: 0.78 PPBV
 RT: 16.304 min Scan# 1896
 Delta R.T. -0.037 min
 Lab File: W32808.D
 Acq: 20 Jul 2011 2:46 pm

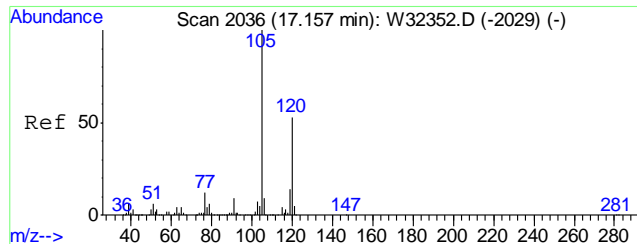
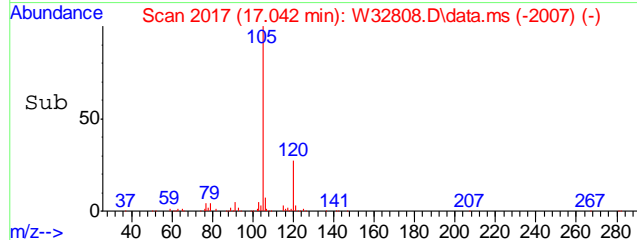
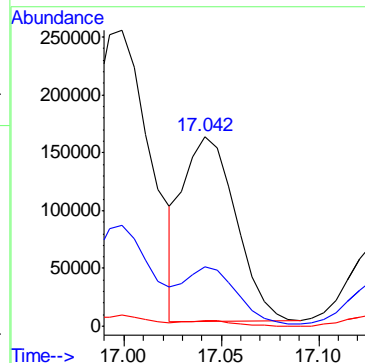
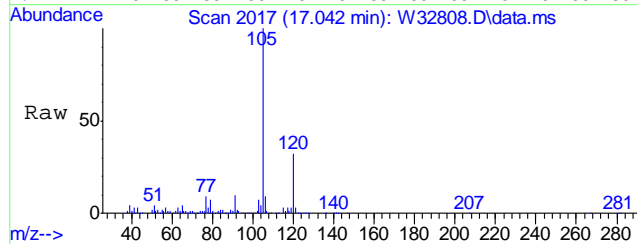
Tgt Ion:	105	Resp:	48126
Ion Ratio	Lower	Upper	
105	100		
120	28.2	6.9	46.9
77	14.2	0.0	33.9





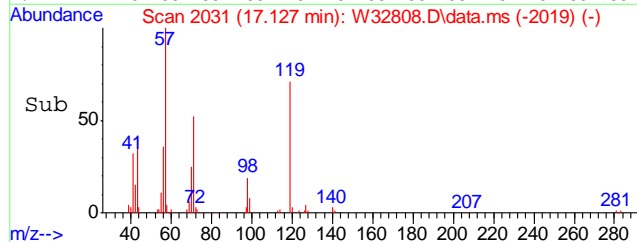
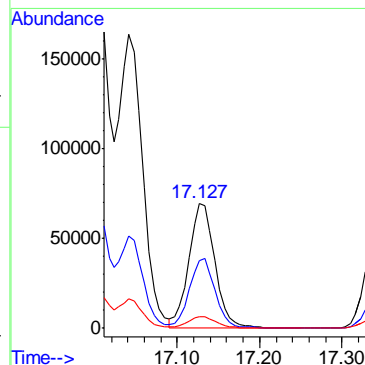
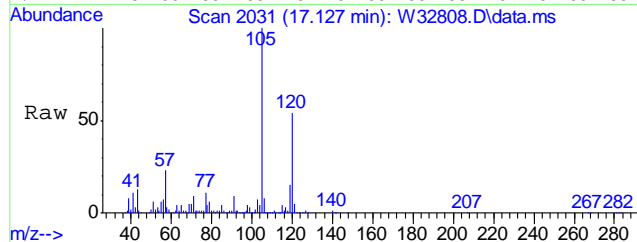
#91
4-ETHYLTOLUENE
Concen: 5.77 PPBV
RT: 17.042 min Scan# 2017
Delta R.T. -0.030 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

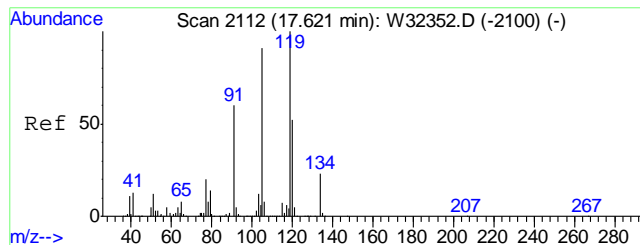
Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.3	9.8	49.8
119	2.9	0.0	22.9



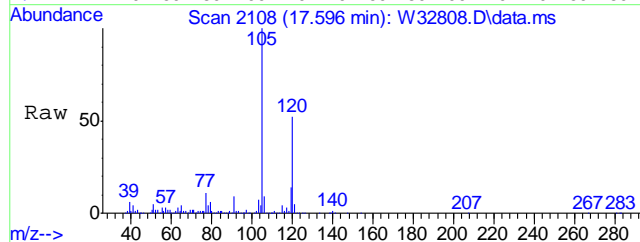
#92
1,3,5-TRIMETHYLBENZENE
Concen: 3.56 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.030 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.2	32.9	72.9
91	9.3	0.0	29.3

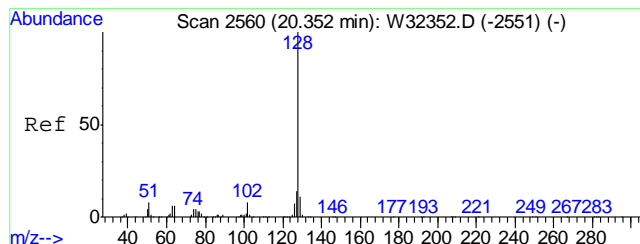
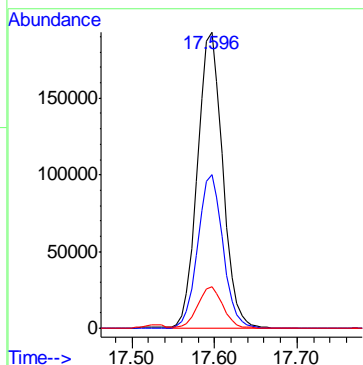
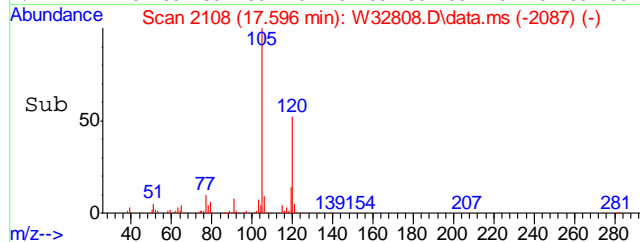




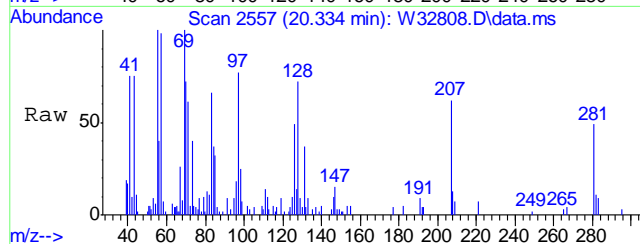
#95
1,2,4-TRIMETHYLBENZENE
Concen: 10.47 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm



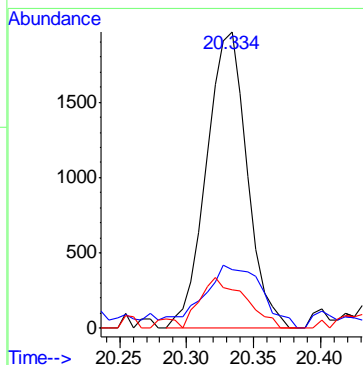
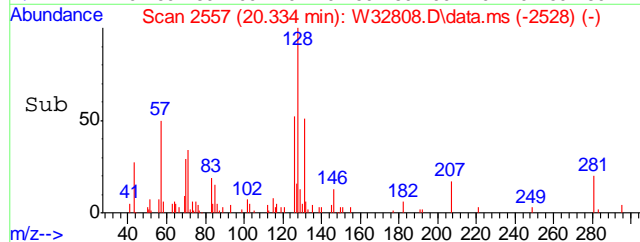
Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.8	39.3	79.3
119	14.0	101.1	141.1#



#107
NAPHTHALENE
Concen: 0.47 PPBV
RT: 20.334 min Scan# 2557
Delta R.T. -0.018 min
Lab File: W32808.D
Acq: 20 Jul 2011 2:46 pm



Tgt Ion	Ratio	Lower	Upper
128	100		
127	30.8	0.0	34.3
129	18.8	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32817.D
 Acq On : 20 Jul 2011 8:56 pm
 Operator : YOU MINH
 Sample : JA81330-2
 Misc : MS15514,VW1341,50,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 00:25:36 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

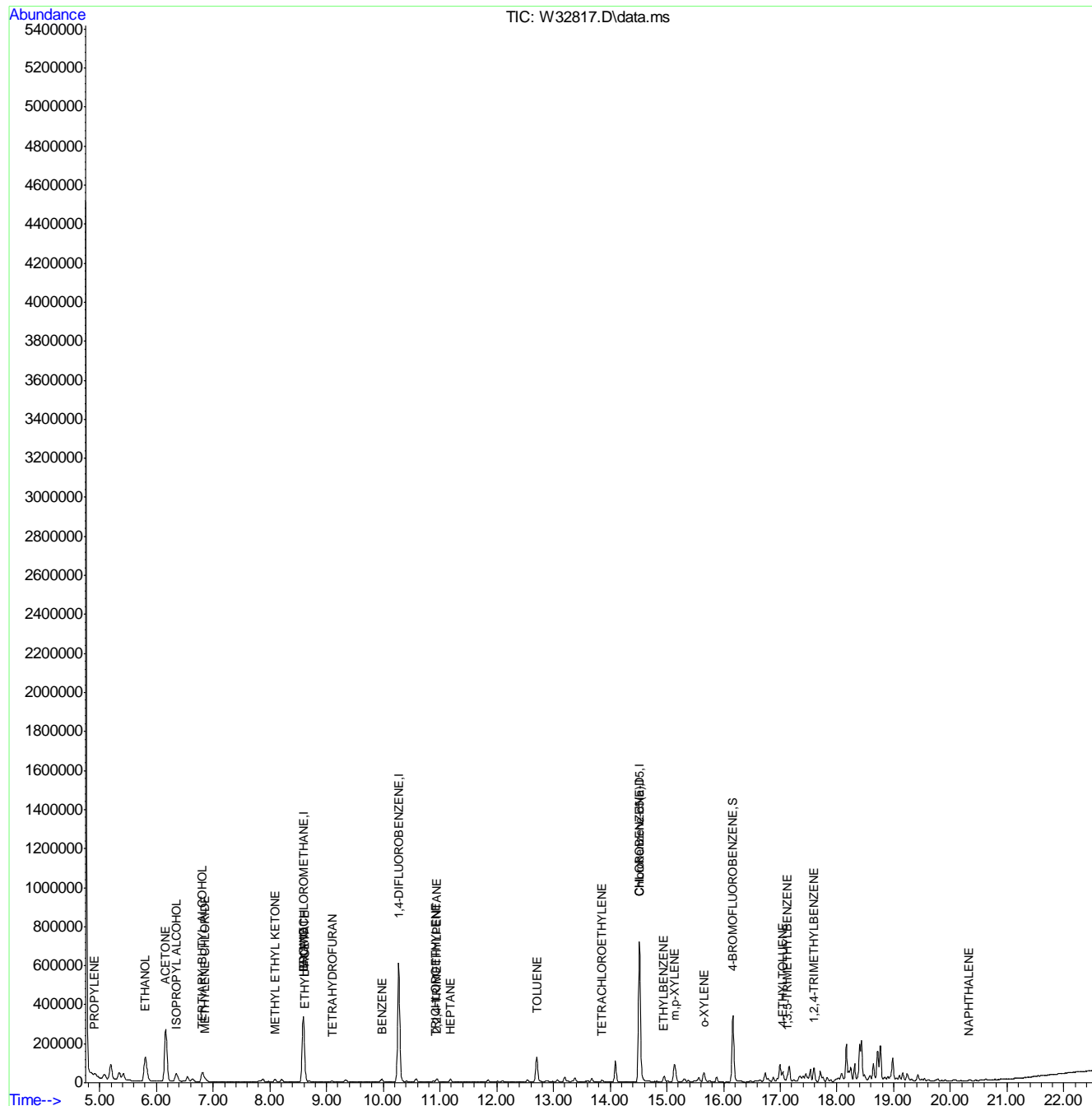
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	150553	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.269	114	769571	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.518	82	329229	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	328325	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	171885	4.83	PPBV	-0.03
Spiked Amount	5.000	Range 65 - 128	Recovery	=	96.60%	
Target Compounds						
					Qvalue	
6) PROPYLENE	4.910	41	11607	0.62	PPBV	84
19) ISOPROPYL ALCOHOL	6.349	45	92254	2.51	PPBV	98
20) ACETONE	6.160	58	166577	17.29	PPBV	92
27) ETHANOL	5.806	45	266674	27.68	PPBV	99
30) METHYLENE CHLORIDE	6.855	84	4537	0.25	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.806	59	94621	2.23	PPBV	93
36) TETRAHYDROFURAN	9.098	72	1475	0.17	PPBV #	80
37) HEXANE	8.598	57	12017	0.37	PPBV #	84
40) METHYL ETHYL KETONE	8.092	72	7649	0.85	PPBV #	57
43) ETHYL ACETATE	8.616	61	3925	0.67	PPBV #	1
51) BENZENE	9.976	78	15676	0.27	PPBV	98
54) TRICHLOROETHYLENE	10.927	95	1540	0.07	PPBV	90
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	14279	0.14	PPBV	85
62) HEPTANE	11.183	43	9350	0.25	PPBV	97
66) TOLUENE	12.707	92	79290	2.01	PPBV	98
72) TETRACHLOROETHYLENE	13.847	164	3330	0.15	PPBV	98
78) ETHYLBENZENE	14.951	91	33768	0.52	PPBV	99
79) m,p-XYLENE	15.133	106	48798	1.92	PPBV	94
80) o-XYLENE	15.658	106	20072	0.82	PPBV	99
91) 4-ETHYLTOLUENE	17.042	105	38609	0.67	PPBV	98
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	21307	0.45	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	52761	1.21	PPBV #	32
107) NAPHTHALENE	20.334	128	2486	0.25	PPBV	99

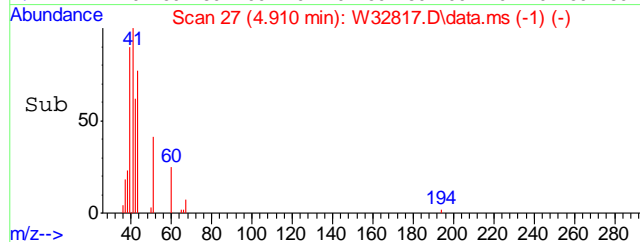
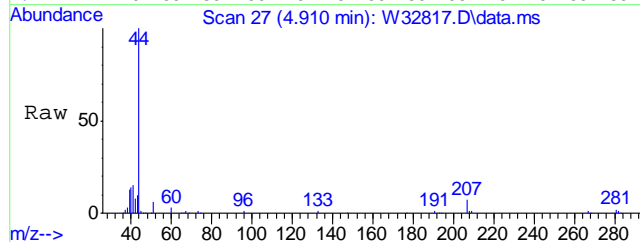
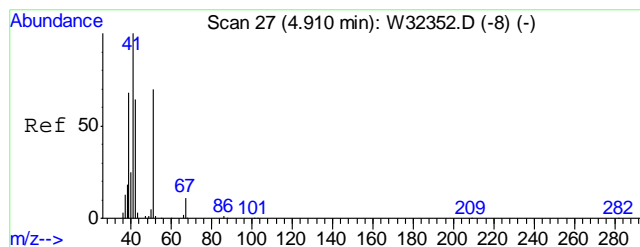
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32817.D
Acq On : 20 Jul 2011 8:56 pm
Operator : YOU MINH
Sample : JA81330-2
Misc : MS15514,VW1341,50,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 00:25:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





#6

PROPYLENE

Concen: 0.62 PPBV

RT: 4.910 min Scan# 27

Delta R.T. -0.000 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

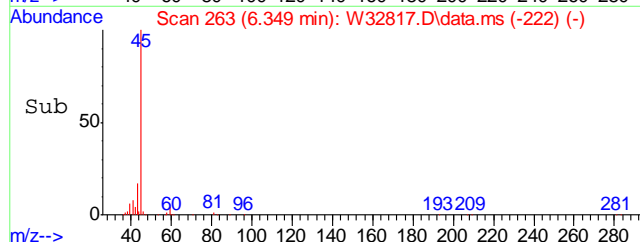
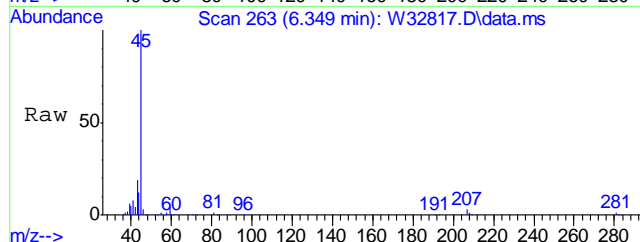
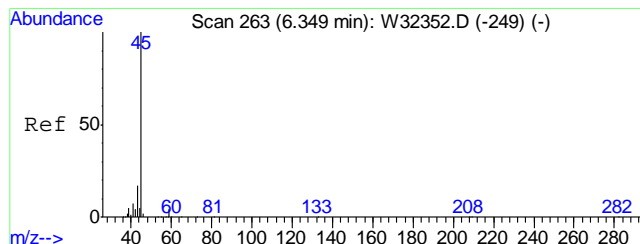
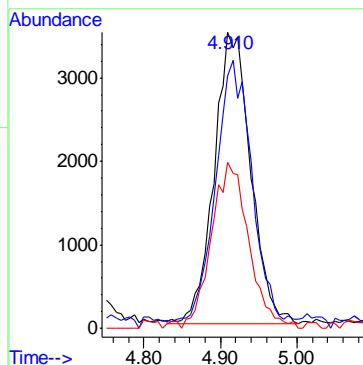
Tgt Ion: 41 Resp: 11607

Ion Ratio Lower Upper

41 100

39 85.1 47.7 87.7

42 56.3 43.7 83.7



#19

ISOPROPYL ALCOHOL

Concen: 2.51 PPBV

RT: 6.349 min Scan# 263

Delta R.T. -0.000 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

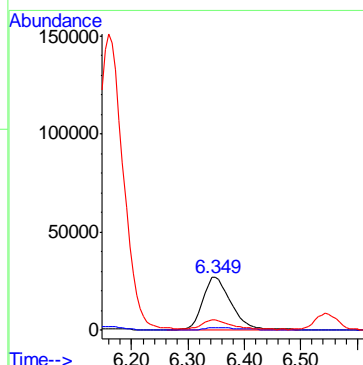
Tgt Ion: 45 Resp: 92254

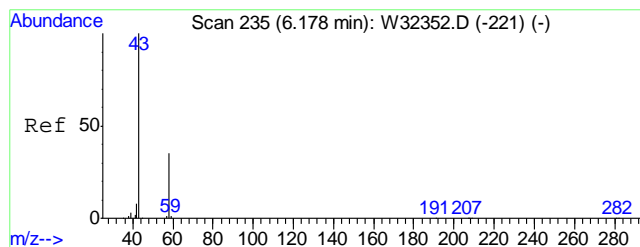
Ion Ratio Lower Upper

45 100

59 4.3 0.0 24.3

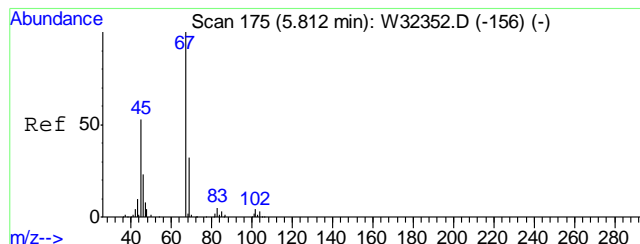
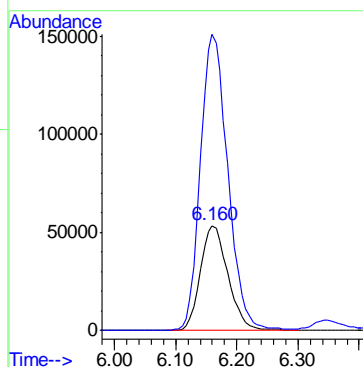
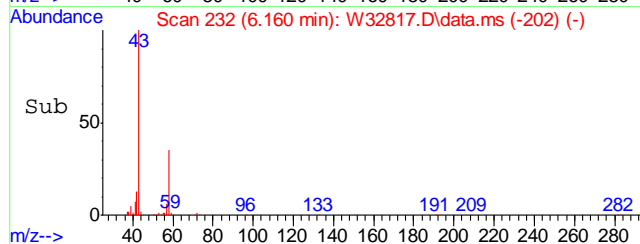
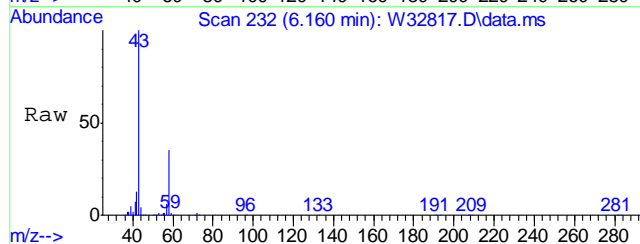
43 18.6 0.0 37.5





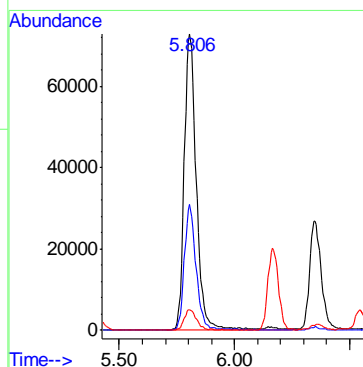
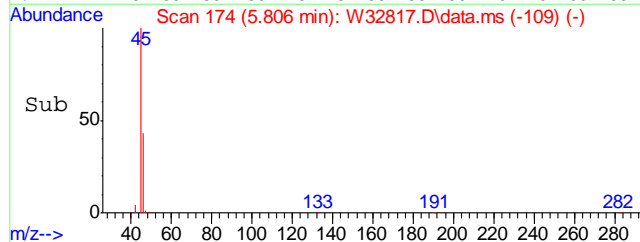
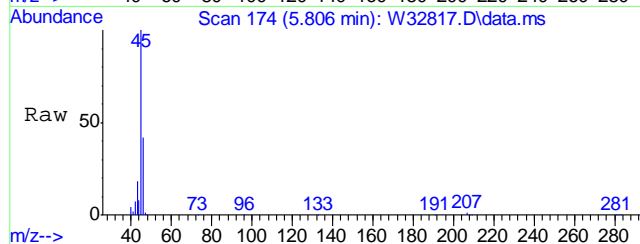
#20
 ACETONE
 Concen: 17.29 PPBV
 RT: 6.160 min Scan# 232
 Delta R.T. -0.018 min
 Lab File: W32817.D
 Acq: 20 Jul 2011 8:56 pm

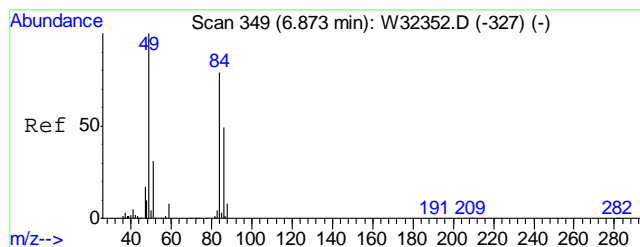
Tgt Ion: 58 Resp: 166577
 Ion Ratio Lower Upper
 58 100
 43 281.1 277.6 317.6



#27
 ETHANOL
 Concen: 27.68 PPBV
 RT: 5.806 min Scan# 174
 Delta R.T. -0.006 min
 Lab File: W32817.D
 Acq: 20 Jul 2011 8:56 pm

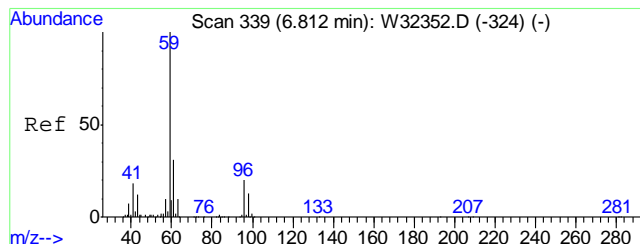
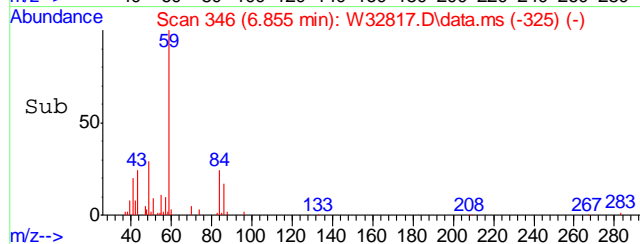
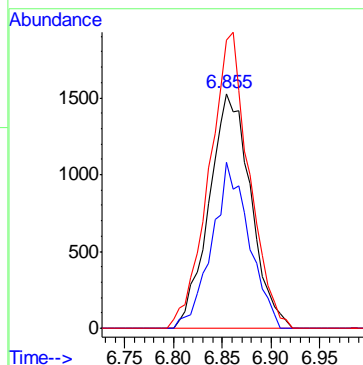
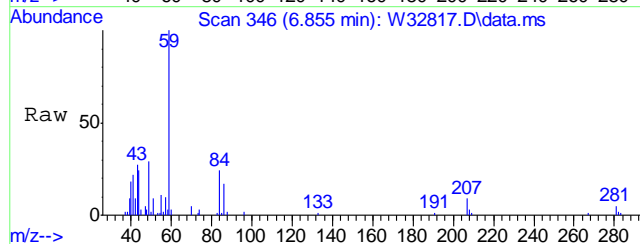
Tgt Ion: 45 Resp: 266674
 Ion Ratio Lower Upper
 45 100
 46 40.6 20.6 60.6
 42 7.1 0.0 28.7





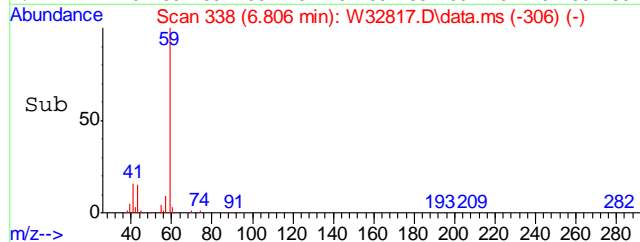
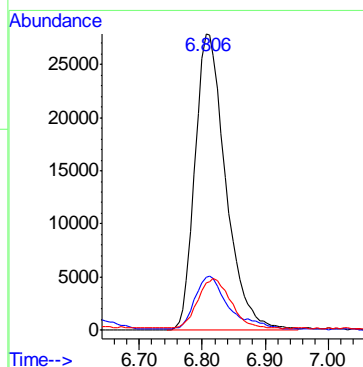
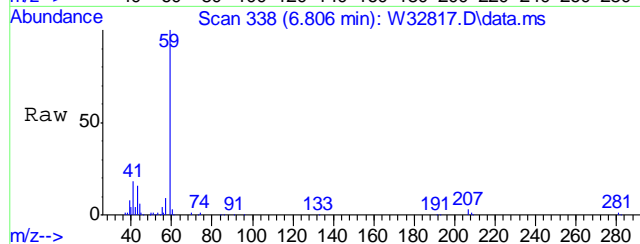
#30
METHYLENE CHLORIDE
Concen: 0.25 PPBV
RT: 6.855 min Scan# 346
Delta R.T. -0.018 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

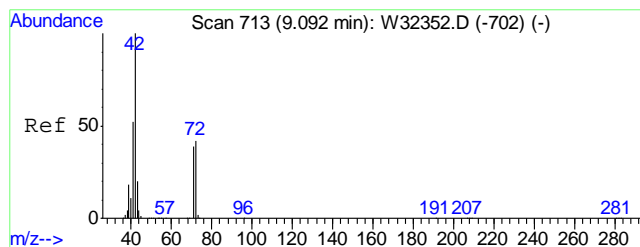
Tgt Ion	84	Resp	4537
Ion Ratio	Lower	Upper	
84	100		
86	63.1	42.9	82.9
49	120.7	0.0	324.2



#34
TERTIARY BUTYL ALCOHOL
Concen: 2.23 PPBV
RT: 6.806 min Scan# 338
Delta R.T. -0.006 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

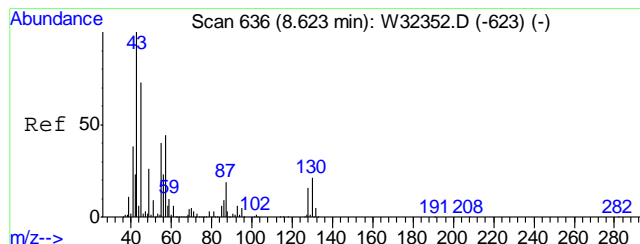
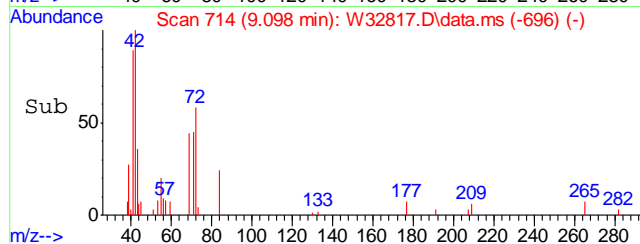
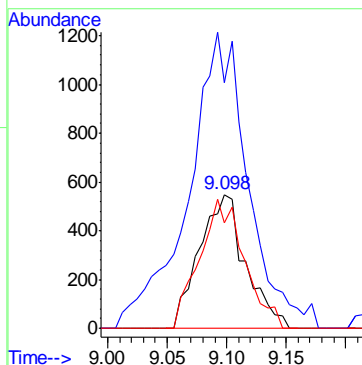
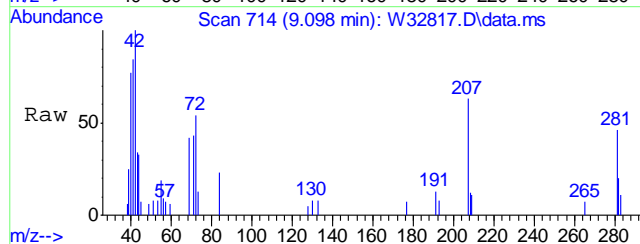
Tgt Ion	59	Resp	94621
Ion Ratio	Lower	Upper	
59	100		
41	19.6	0.0	39.2
43	18.4	0.0	32.1





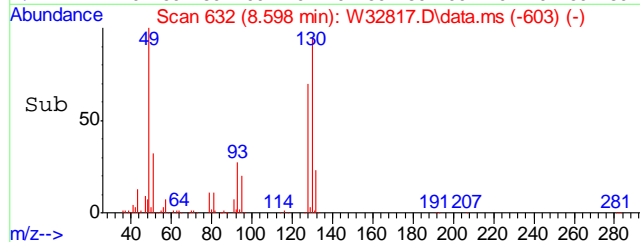
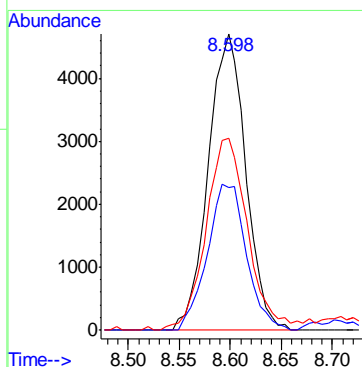
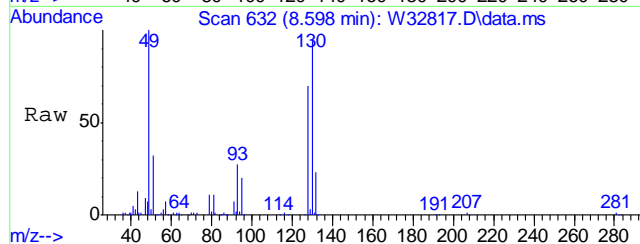
#36
TETRAHYDROFURAN
Concen: 0.17 PPBV
RT: 9.098 min Scan# 714
Delta R.T. 0.006 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

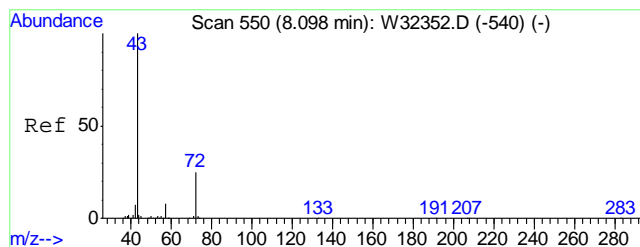
Tgt Ion: 72 Resp: 1475
Ion Ratio Lower Upper
72 100
42 287.5 220.0 260.0#
71 93.9 74.2 114.2



#37
HEXANE
Concen: 0.37 PPBV
RT: 8.598 min Scan# 632
Delta R.T. -0.024 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

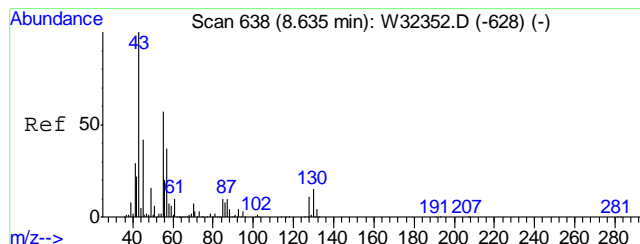
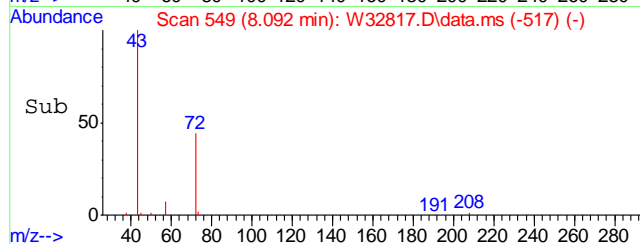
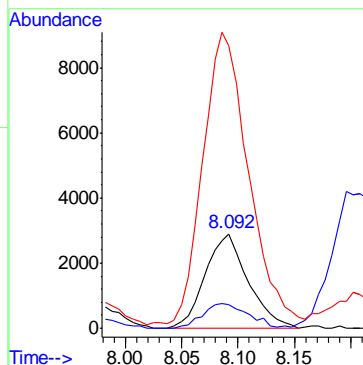
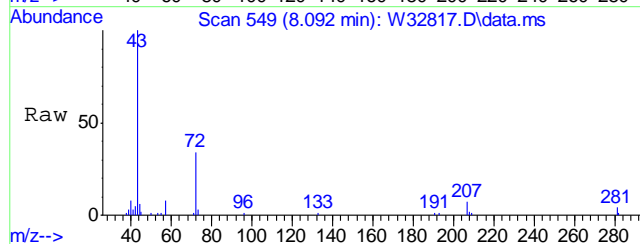
Tgt Ion: 57 Resp: 12017
Ion Ratio Lower Upper
57 100
56 51.4 33.7 73.7
41 72.4 74.5 114.5#





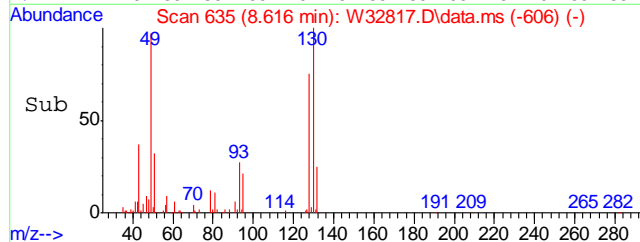
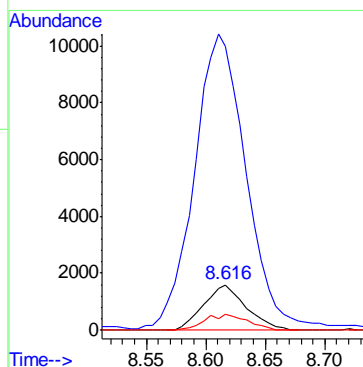
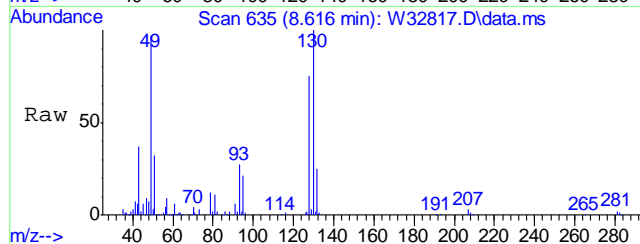
#40
METHYL ETHYL KETONE
Concen: 0.85 PPBV
RT: 8.092 min Scan# 549
Delta R.T. -0.006 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

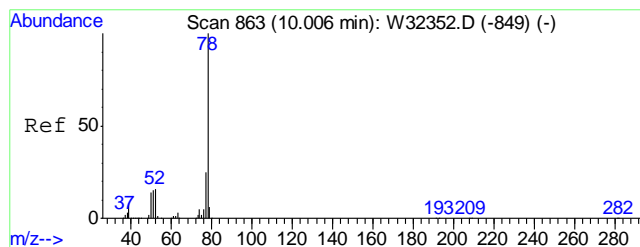
Tgt Ion: 72 Resp: 7649
Ion Ratio Lower Upper
72 100
57 25.0 11.1 51.1
43 297.9 386.1 426.1#



#43
ETHYL ACETATE
Concen: 0.67 PPBV
RT: 8.616 min Scan# 635
Delta R.T. -0.018 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

Tgt Ion: 61 Resp: 3925
Ion Ratio Lower Upper
61 100
43 799.2 1488.2 1528.2#
88 35.1 27.8 67.8





#51

BENZENE

Concen: 0.27 PPBV

RT: 9.976 min Scan# 858

Delta R.T. -0.030 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

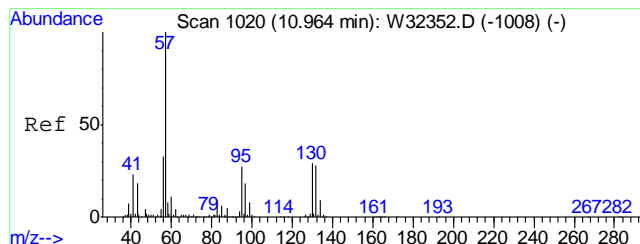
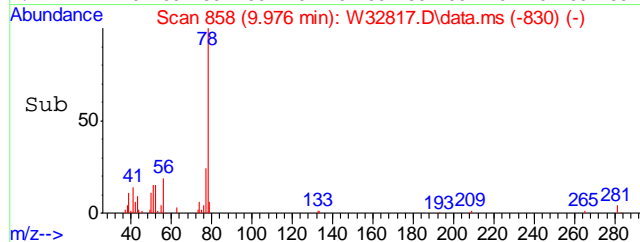
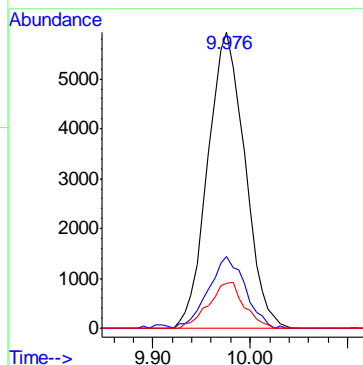
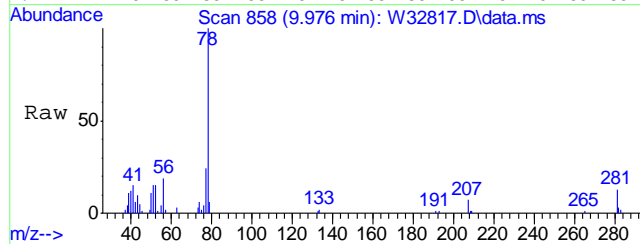
Tgt Ion: 78 Resp: 15676

Ion Ratio Lower Upper

78 100

77 24.2 4.7 44.7

52 14.8 0.0 35.9



#54

TRICHLOROETHYLENE

Concen: 0.07 PPBV

RT: 10.927 min Scan# 1014

Delta R.T. -0.037 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

Tgt Ion: 95 Resp: 1540

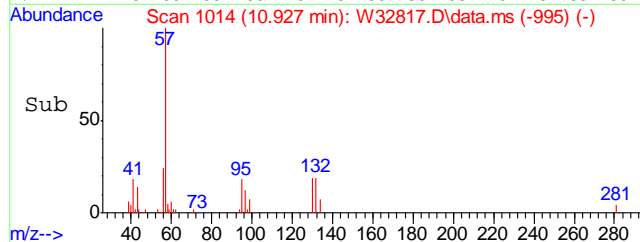
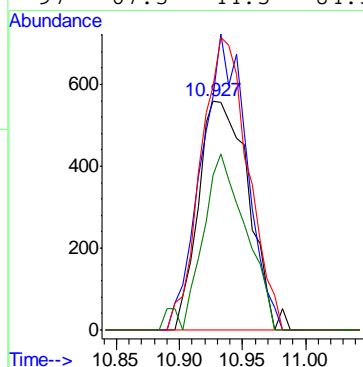
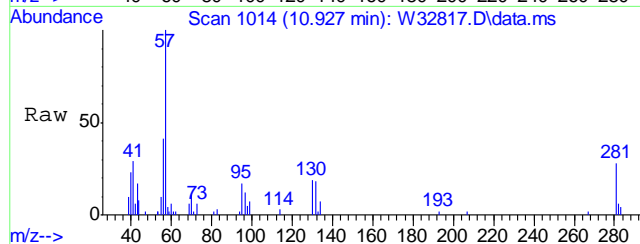
Ion Ratio Lower Upper

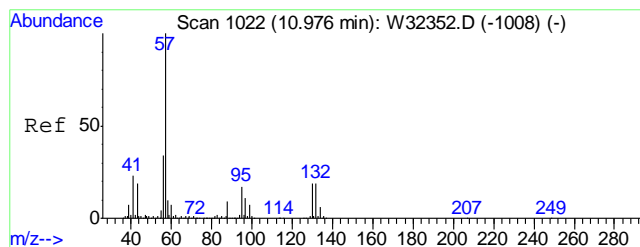
95 100

132 116.9 84.3 124.3

130 120.7 88.4 128.4

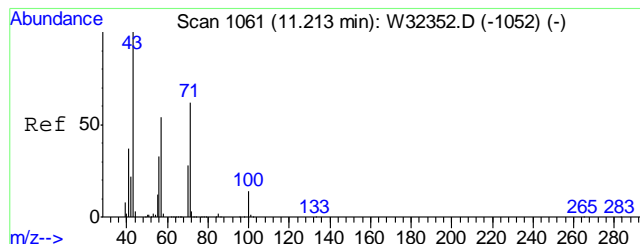
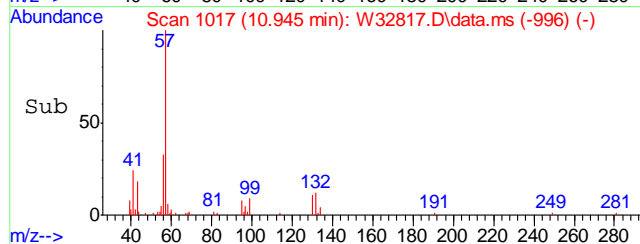
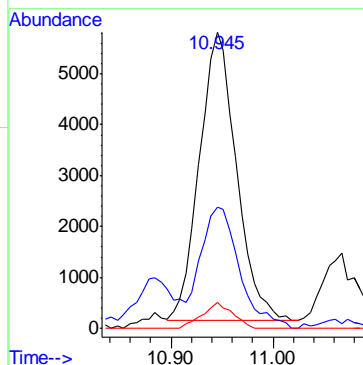
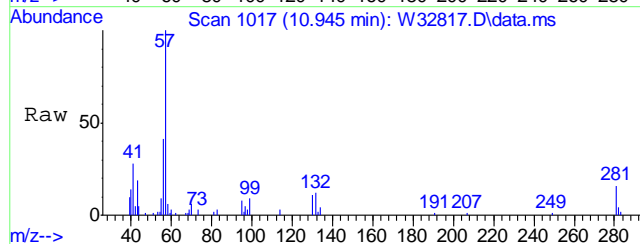
97 67.3 44.5 84.5





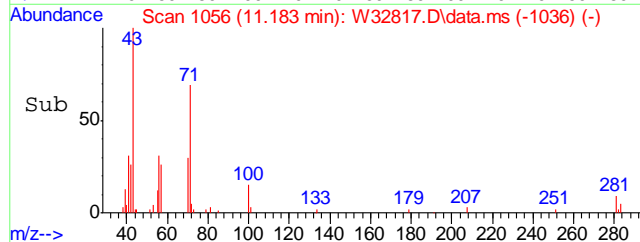
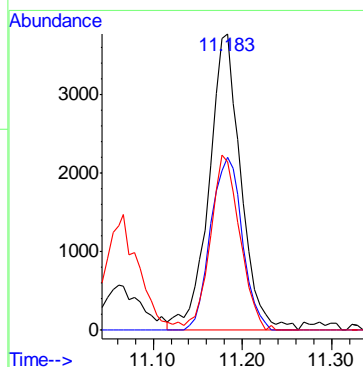
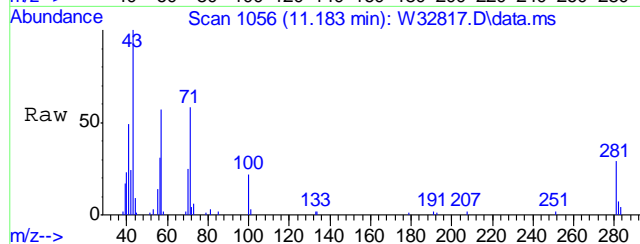
#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.14 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.030 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

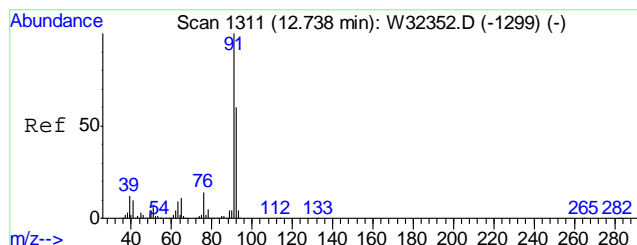
Tgt Ion	Ratio	Lower	Upper
57	100		
56	43.7	13.5	53.5
99	7.3	0.0	27.7



#62
HEPTANE
Concen: 0.25 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.030 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
71	57.8	41.6	81.6
57	54.9	34.6	74.6





#66

TOLUENE

Concen: 2.01 PPBV

RT: 12.707 min Scan# 1306

Delta R.T. -0.030 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

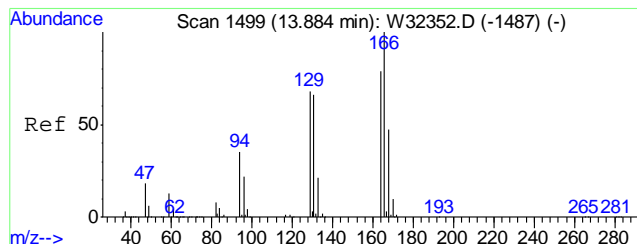
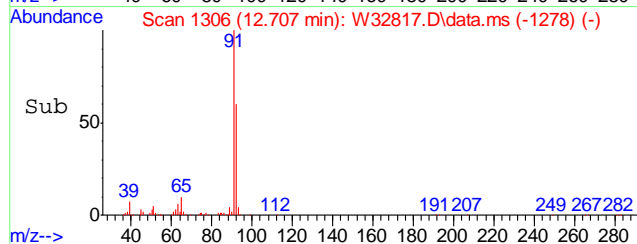
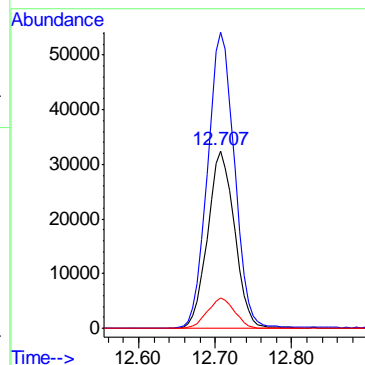
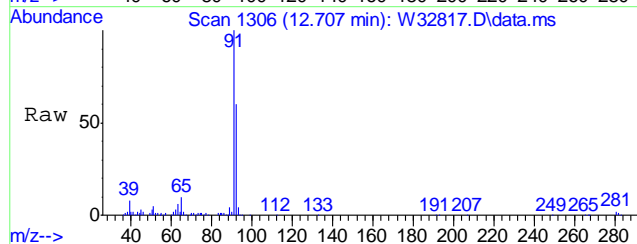
Tgt Ion: 92 Resp: 79290

Ion Ratio Lower Upper

92 100

91 167.4 146.2 186.2

65 17.1 0.4 40.4



#72

TETRACHLOROETHYLENE

Concen: 0.15 PPBV

RT: 13.847 min Scan# 1493

Delta R.T. -0.037 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

Tgt Ion: 164 Resp: 3330

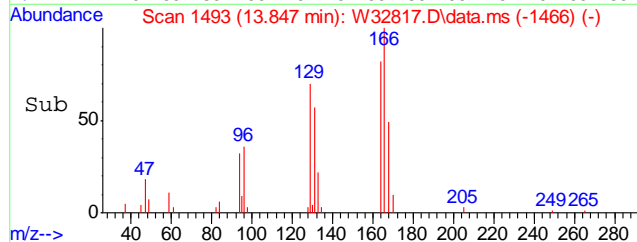
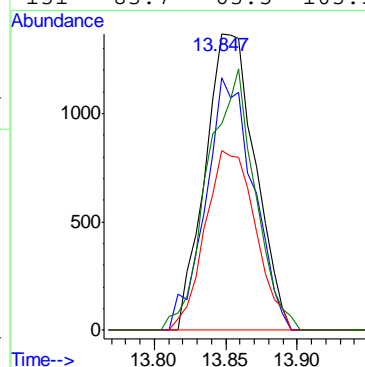
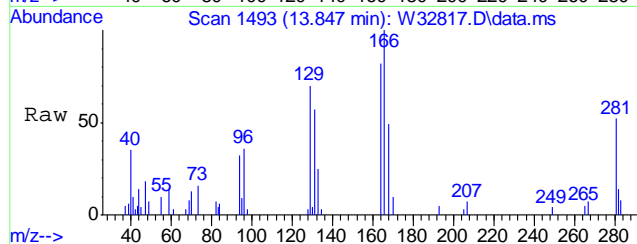
Ion Ratio Lower Upper

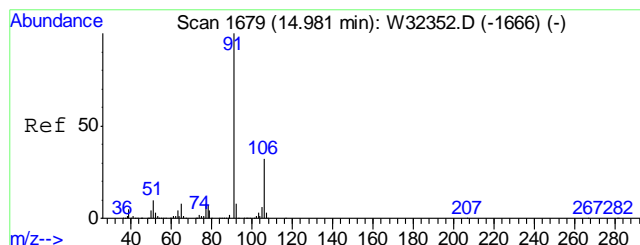
164 100

129 81.1 66.3 106.3

168 60.9 41.0 81.0

131 83.7 63.5 103.5





#78

ETHYLBENZENE

Concen: 0.52 PPBV

RT: 14.951 min Scan# 1674

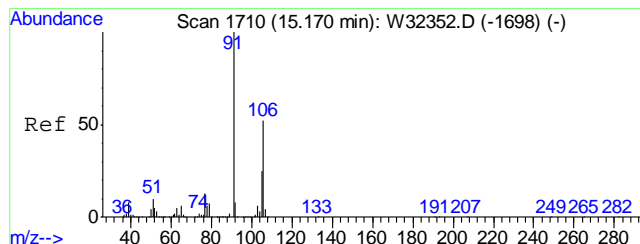
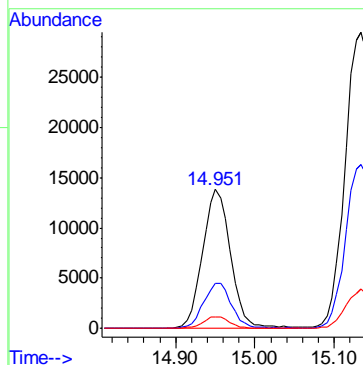
Delta R.T. -0.030 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

Tgt Ion: 91 Resp: 33768

Ion	Ratio	Lower	Upper
91	100		
106	32.5	11.7	51.7
77	8.0	0.0	28.1



#79

m,p-XYLENE

Concen: 1.92 PPBV

RT: 15.133 min Scan# 1704

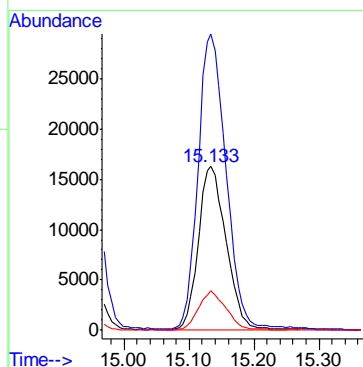
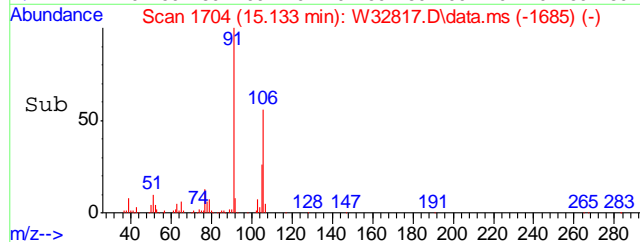
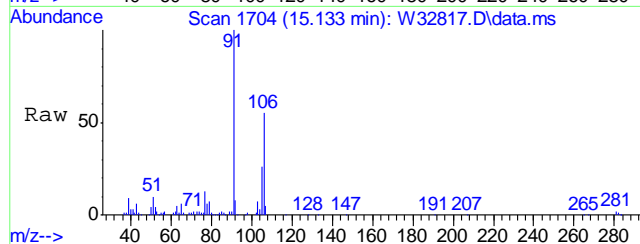
Delta R.T. -0.037 min

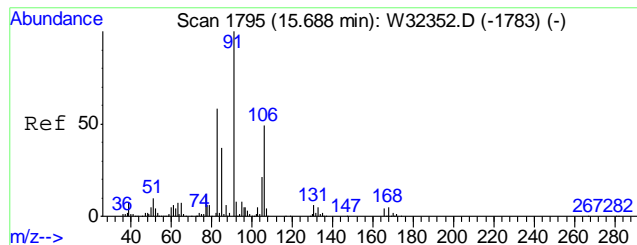
Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

Tgt Ion: 106 Resp: 48798

Ion	Ratio	Lower	Upper
106	100		
91	180.9	152.6	228.8
77	23.7	19.9	29.9





#80

o-XYLENE

Concen: 0.82 PPBV

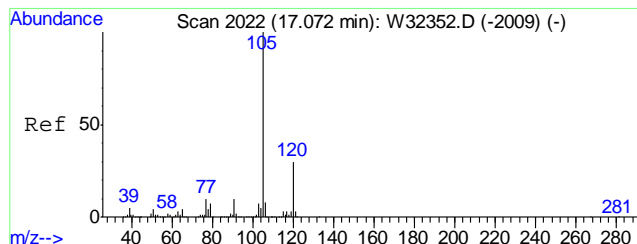
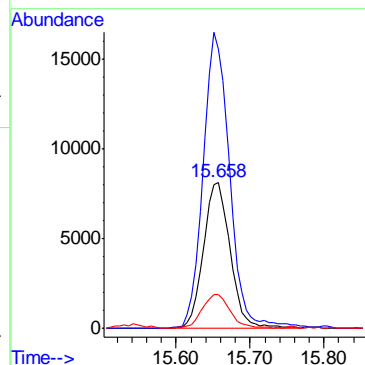
RT: 15.658 min Scan# 1790

Delta R.T. -0.030 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

Tgt Ion:	106	Resp:	20072
Ion Ratio	Lower	Upper	
106	100		
91	200.7	182.1	222.1
77	24.5	4.0	44.0



#91

4-ETHYLTOLUENE

Concen: 0.67 PPBV

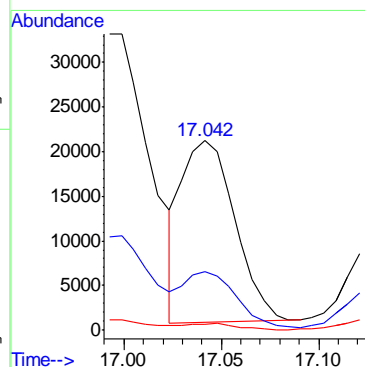
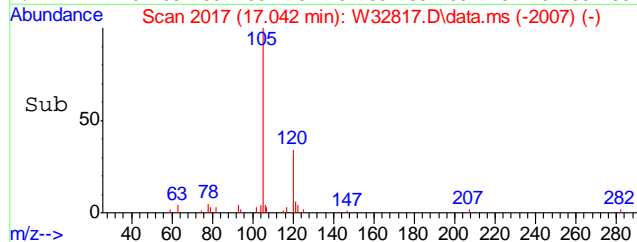
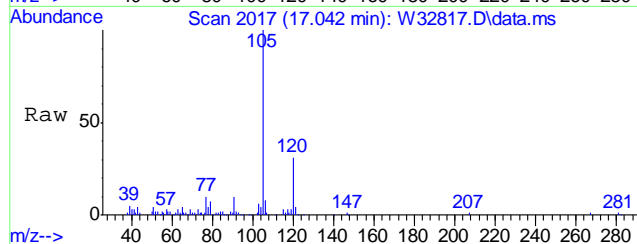
RT: 17.042 min Scan# 2017

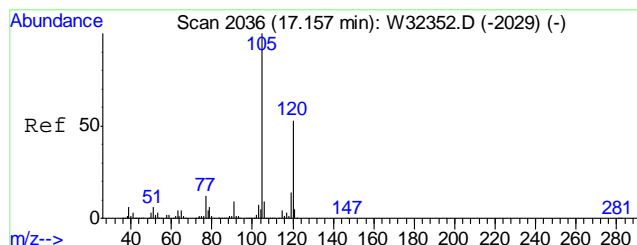
Delta R.T. -0.030 min

Lab File: W32817.D

Acq: 20 Jul 2011 8:56 pm

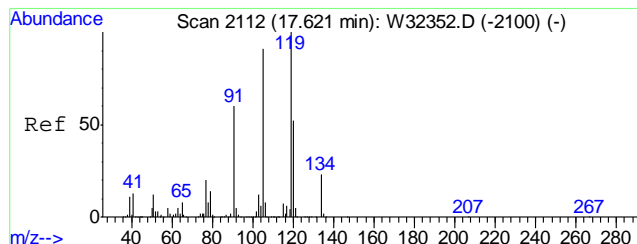
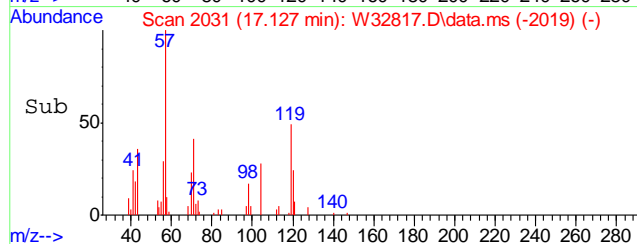
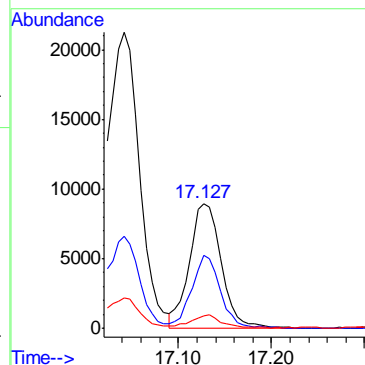
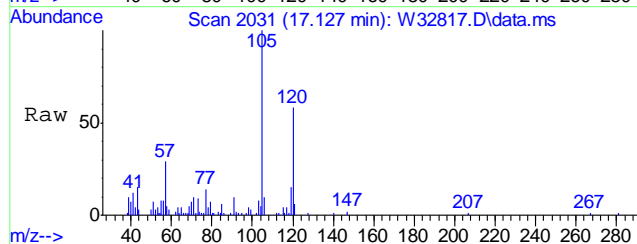
Tgt Ion:	105	Resp:	38609
Ion Ratio	Lower	Upper	
105	100		
120	30.7	9.8	49.8
119	3.6	0.0	22.9





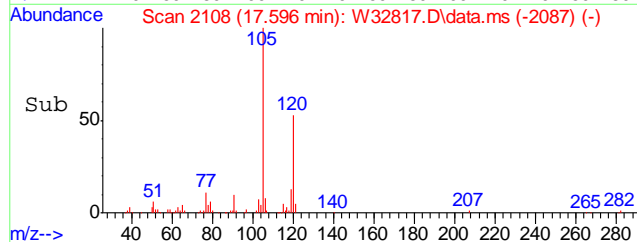
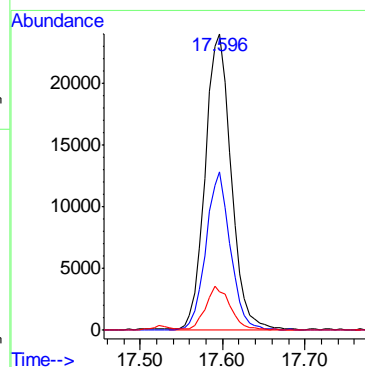
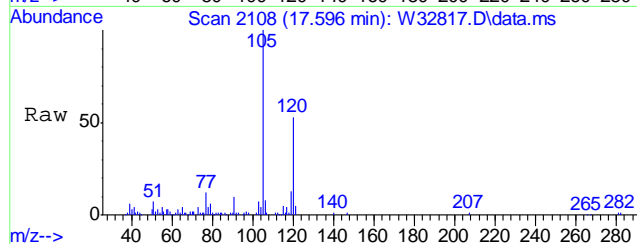
#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.45 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.030 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

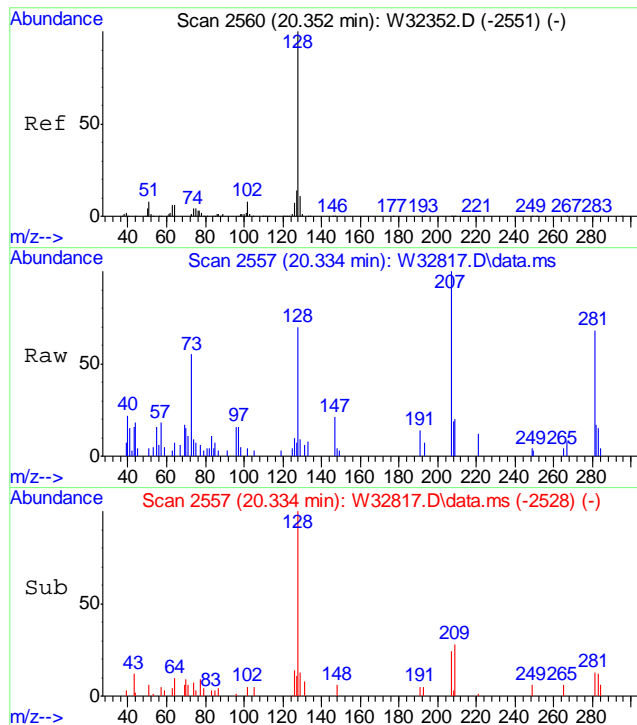
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.8	32.9	72.9
91	8.2	0.0	29.3



#95
1,2,4-TRIMETHYLBENZENE
Concen: 1.21 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32817.D
Acq: 20 Jul 2011 8:56 pm

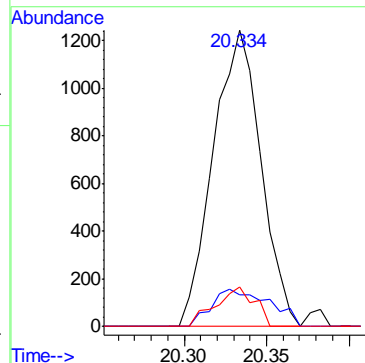
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.0	39.3	79.3
119	14.1	101.1	141.1#





#107
 NAPHTHALENE
 Concen: 0.25 PPBV
 RT: 20.334 min Scan# 2557
 Delta R.T. -0.018 min
 Lab File: W32817.D
 Acq: 20 Jul 2011 8:56 pm

Tgt Ion:	128	Resp:	2486
Ion Ratio	Lower	Upper	
128	100		
127	15.2	0.0	34.3
129	10.9	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32809.D
 Acq On : 20 Jul 2011 3:28 pm
 Operator : YOUMINH
 Sample : JA81330-3
 Misc : MS15514,VW1341,400,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 00:24:47 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

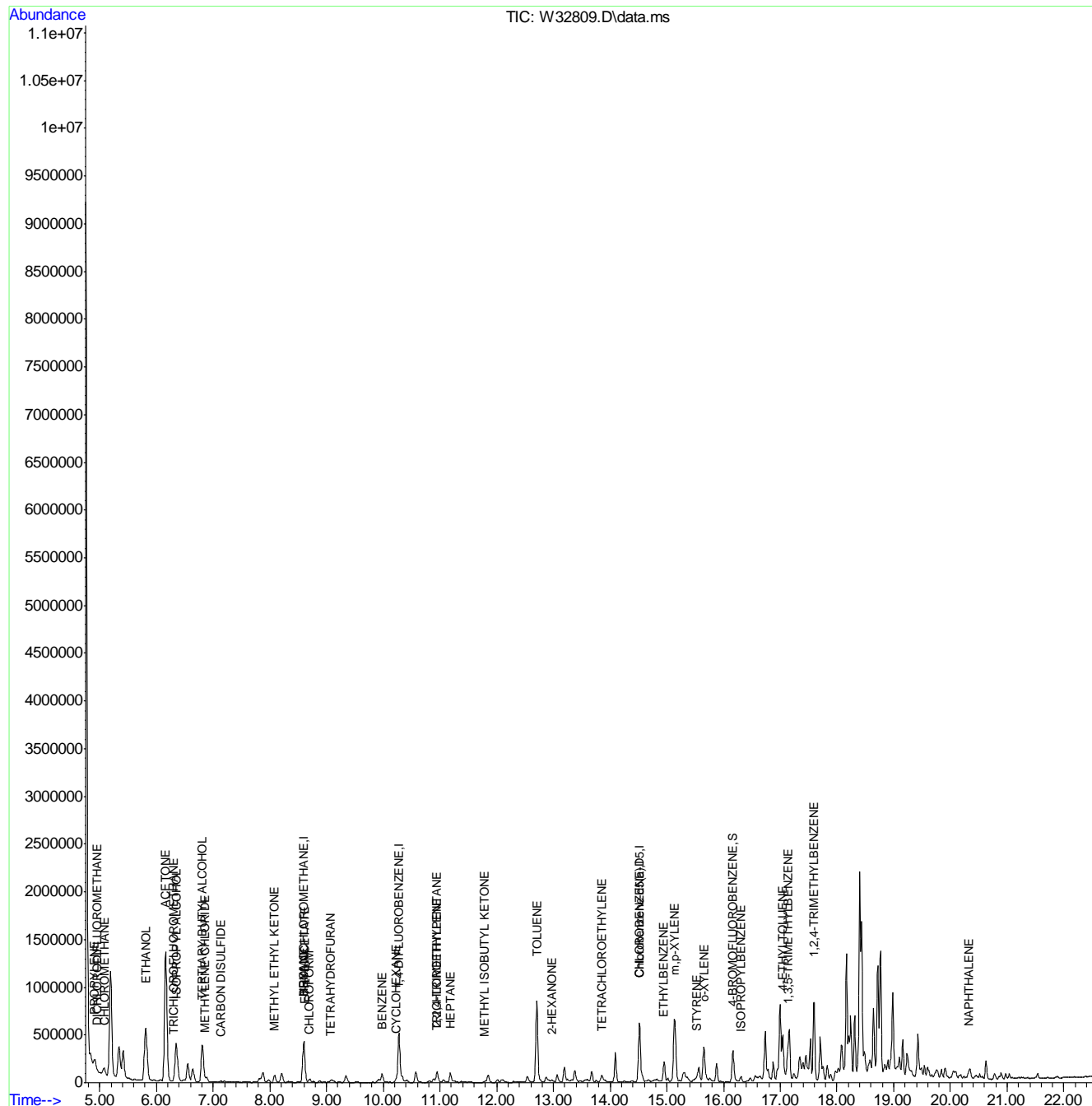
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.598	128	132243	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	645218	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	280698	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	278049	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	155736	5.13	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	102.60%
Target Compounds						
					Qvalue	
5) DICHLORODIFLUOROMETHANE	4.959	85	17811	0.46	PPBV	97
6) PROPYLENE	4.910	41	82018	4.96	PPBV	86
8) CHLOROMETHANE	5.093	52	3951	0.79	PPBV	91
18) TRICHLOROFLUOROMETHANE	6.300	101	10732	0.29	PPBV	98
19) ISOPROPYL ALCOHOL	6.349	45	845048	26.22	PPBV	99
20) ACETONE	6.160	58	836028	98.82	PPBV #	86
26) CARBON DISULFIDE	7.135	76	10922	0.27	PPBV	84
27) ETHANOL	5.812	45	1114147	131.65	PPBV	98
30) METHYLENE CHLORIDE	6.861	84	4334	0.27	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.806	59	702782	18.83	PPBV	94
36) TETRAHYDROFURAN	9.074	72	8182	1.06	PPBV	99
37) HEXANE	8.598	57	71308	2.48	PPBV #	82
40) METHYL ETHYL KETONE	8.086	72	38041	4.80	PPBV #	63
43) ETHYL ACETATE	8.610	61	18281	3.56	PPBV #	1
45) CHLOROFORM	8.702	83	24075	0.78	PPBV	97
51) BENZENE	9.976	78	113248	2.30	PPBV	97
52) CYCLOHEXANE	10.226	84	20388	0.82	PPBV	86
54) TRICHLOROETHYLENE	10.933	95	2442	0.13	PPBV	92
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	116706	1.38	PPBV	94
62) HEPTANE	11.183	43	50685	1.60	PPBV	94
64) METHYL ISOBUTYL KETONE	11.793	43	7167	0.21	PPBV	96
66) TOLUENE	12.707	92	538161	16.30	PPBV	98
71) 2-HEXANONE	12.975	43	14055	0.51	PPBV	91
72) TETRACHLOROETHYLENE	13.853	164	23331	1.25	PPBV	94
78) ETHYLBENZENE	14.951	91	232737	4.17	PPBV	97
79) m,p-XYLENE	15.133	106	362274	16.74	PPBV	94
80) o-XYLENE	15.652	106	154393	7.39	PPBV	93
81) STYRENE	15.536	104	17941	0.61	PPBV	96
87) ISOPROPYLBENZENE	16.310	105	50657	0.86	PPBV	98
91) 4-ETHYLTOLUENE	17.042	105	364600	7.45	PPBV	97
92) 1,3,5-TRIMETHYLBENZENE	17.133	105	193700	4.79	PPBV	96
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	611508	16.50	PPBV #	33
107) NAPHTHALENE	20.328	128	26937	3.24	PPBV	88

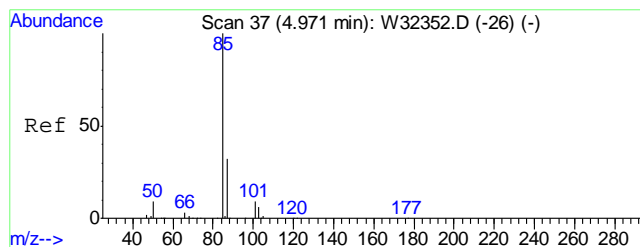
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32809.D
Acq On : 20 Jul 2011 3:28 pm
Operator : YOUMINH
Sample : JA81330-3
Misc : MS15514,VW1341,400,,,,,1
ALS Vial : 11 Sample Multiplier: 1

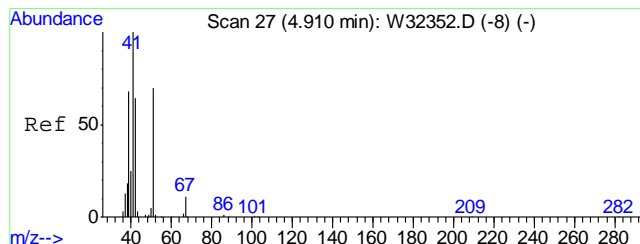
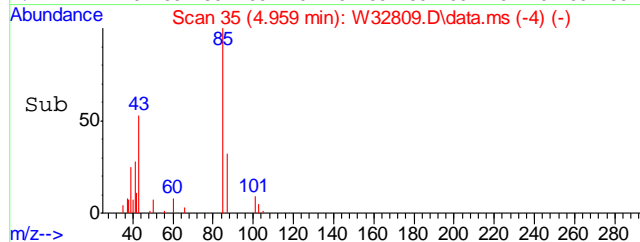
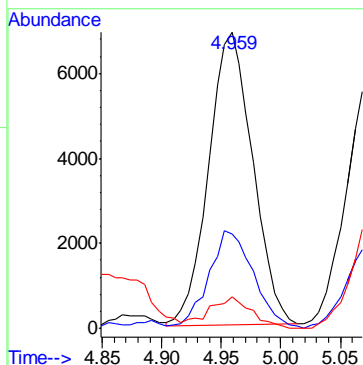
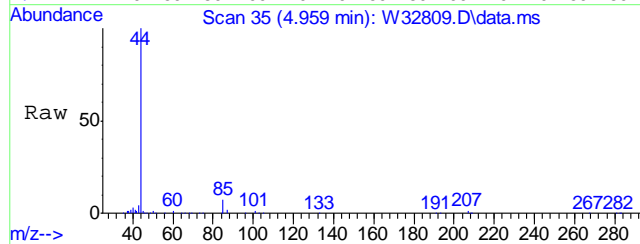
Quant Time: Aug 17 00:24:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





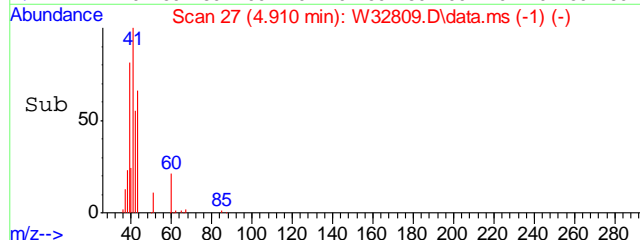
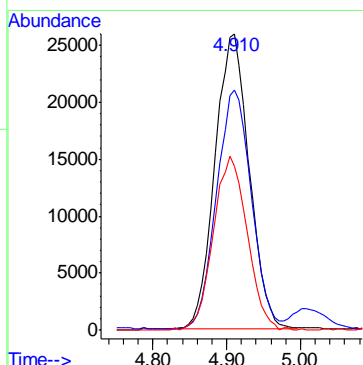
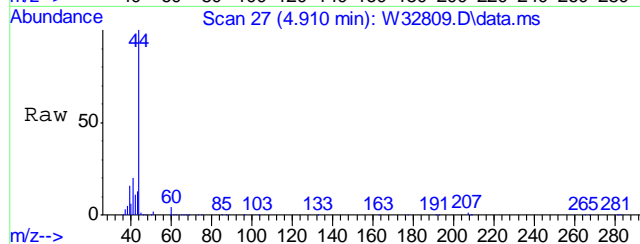
#5
 DICHLORODIFLUOROMETHANE
 Concen: 0.46 PPBV
 RT: 4.959 min Scan# 35
 Delta R.T. -0.012 min
 Lab File: W32809.D
 Acq: 20 Jul 2011 3:28 pm

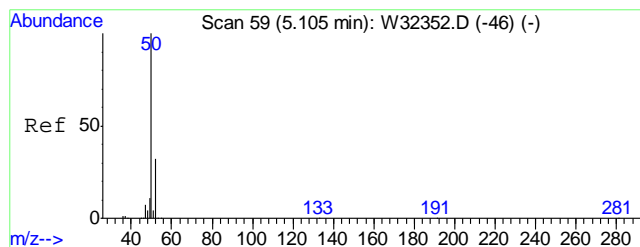
Tgt Ion: 85 Resp: 17811
 Ion Ratio Lower Upper
 85 100
 87 33.9 12.0 52.0
 50 10.5 0.0 30.7



#6
 PROPYLENE
 Concen: 4.96 PPBV
 RT: 4.910 min Scan# 27
 Delta R.T. 0.000 min
 Lab File: W32809.D
 Acq: 20 Jul 2011 3:28 pm

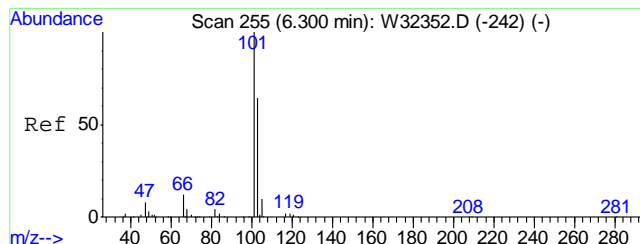
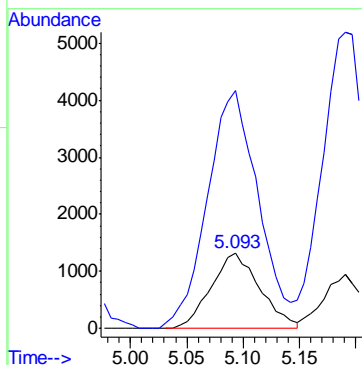
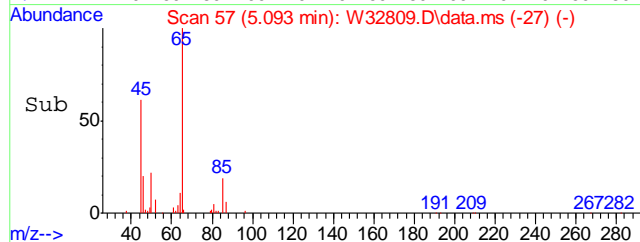
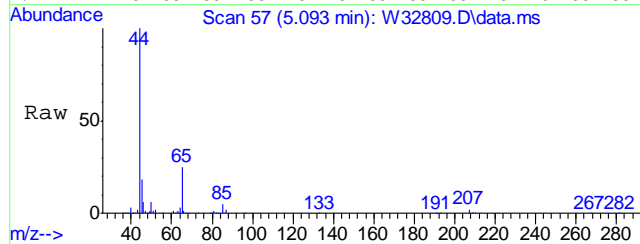
Tgt Ion: 41 Resp: 82018
 Ion Ratio Lower Upper
 41 100
 39 81.2 47.7 87.7
 42 55.3 43.7 83.7





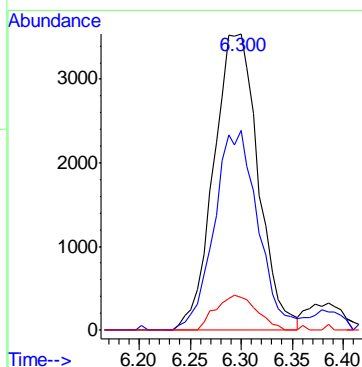
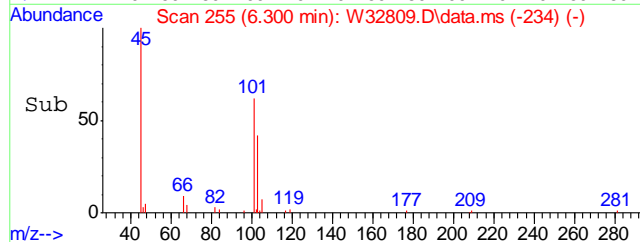
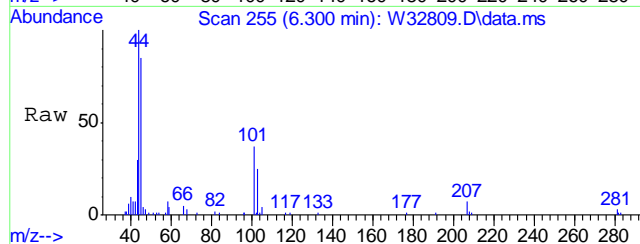
#8
CHLOROMETHANE
Concen: 0.79 PPBV
RT: 5.093 min Scan# 57
Delta R.T. -0.012 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

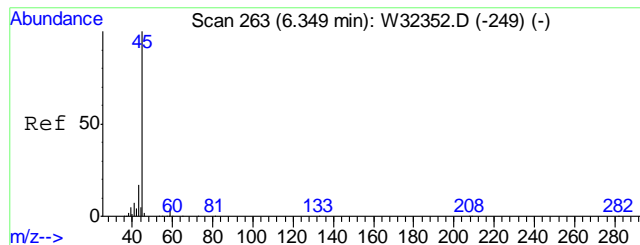
Tgt Ion: 52 Resp: 3951
Ion Ratio Lower Upper
52 100
50 305.4 268.6 308.6



#18
TRICHLOROFLUOROMETHANE
Concen: 0.29 PPBV
RT: 6.300 min Scan# 255
Delta R.T. 0.000 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

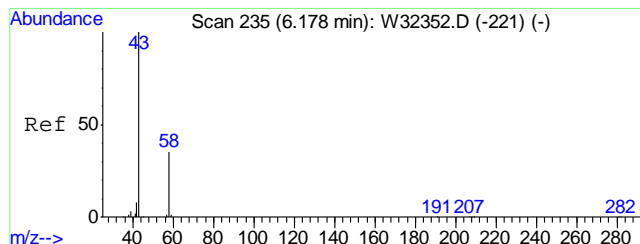
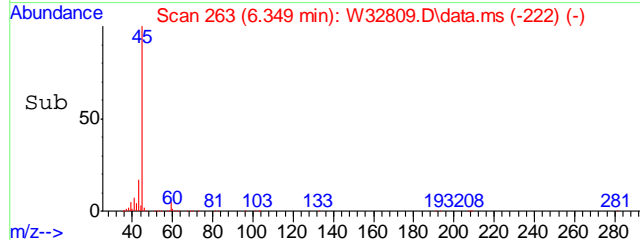
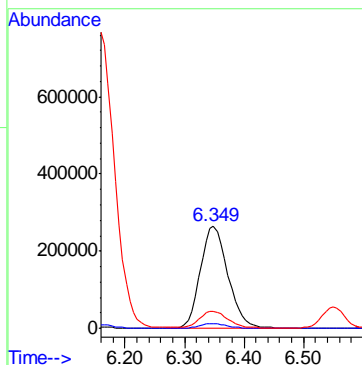
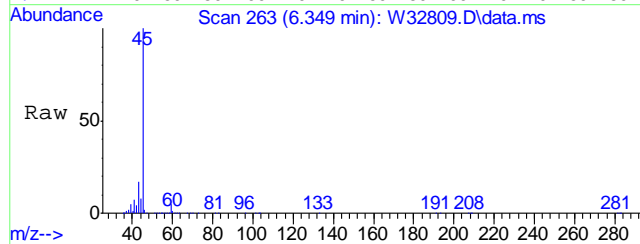
Tgt Ion: 101 Resp: 10732
Ion Ratio Lower Upper
101 100
103 66.3 44.9 84.9
105 10.9 0.0 30.4





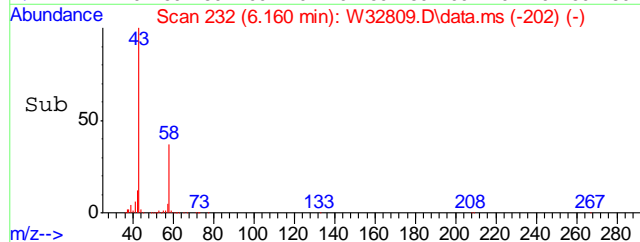
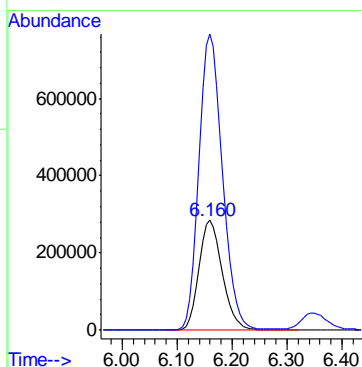
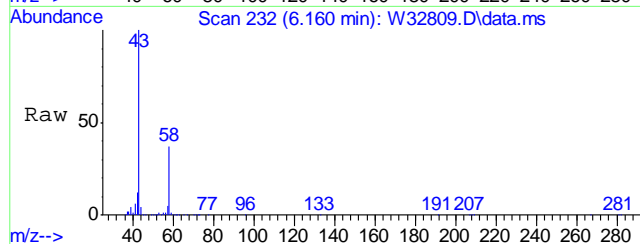
#19
ISOPROPYL ALCOHOL
Concen: 26.22 PPBV
RT: 6.349 min Scan# 263
Delta R.T. 0.000 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

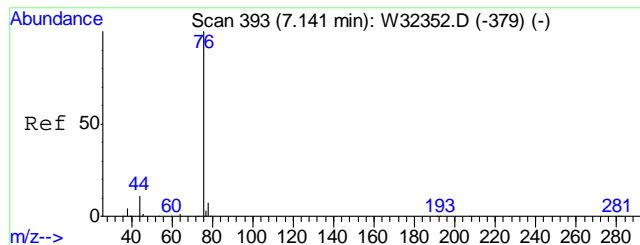
Tgt Ion: 45 Resp: 845048
Ion Ratio Lower Upper
45 100
59 4.5 0.0 24.3
43 17.0 0.0 37.5



#20
ACETONE
Concen: 98.82 PPBV
RT: 6.160 min Scan# 232
Delta R.T. -0.018 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

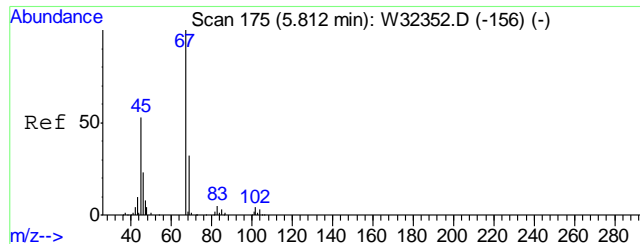
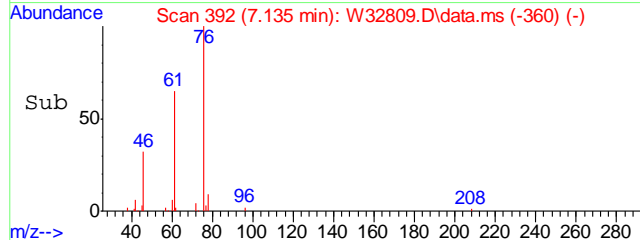
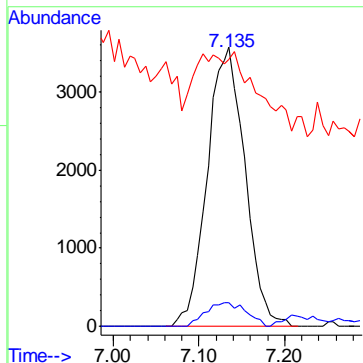
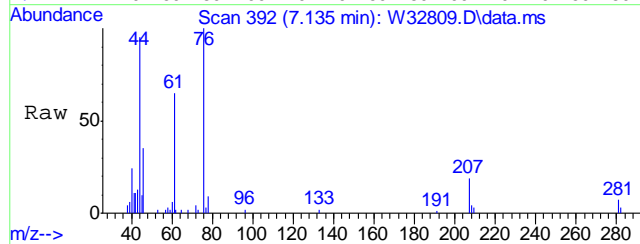
Tgt Ion: 58 Resp: 836028
Ion Ratio Lower Upper
58 100
43 270.7 277.6 317.6#





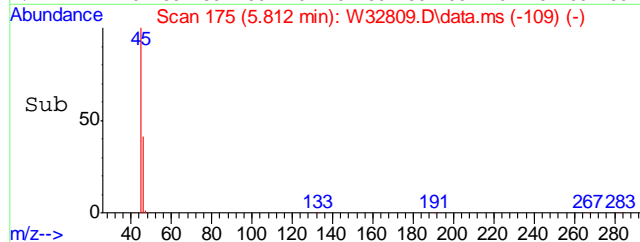
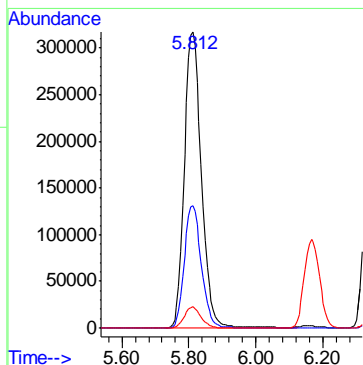
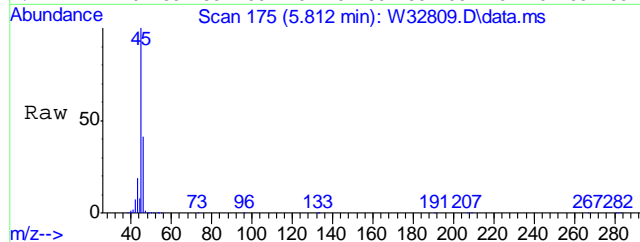
#26
CARBON DISULFIDE
Concen: 0.27 PPBV
RT: 7.135 min Scan# 392
Delta R.T. -0.006 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

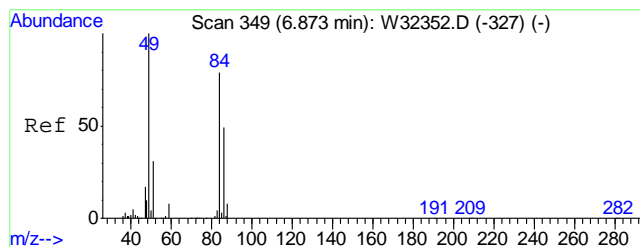
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	28.9
44	22.0	0.0	31.0



#27
ETHANOL
Concen: 131.65 PPBV
RT: 5.812 min Scan# 175
Delta R.T. 0.000 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

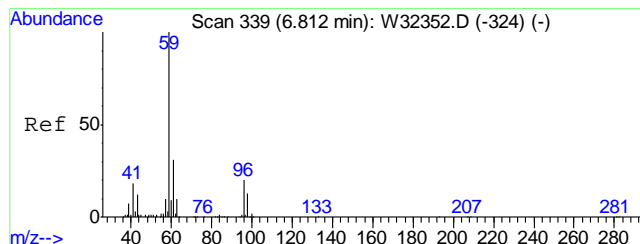
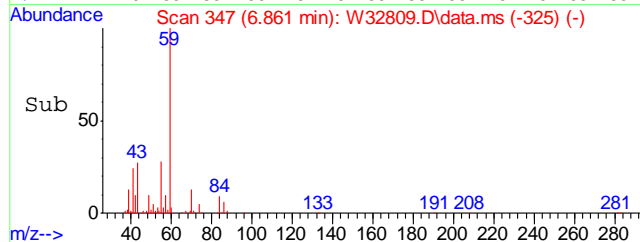
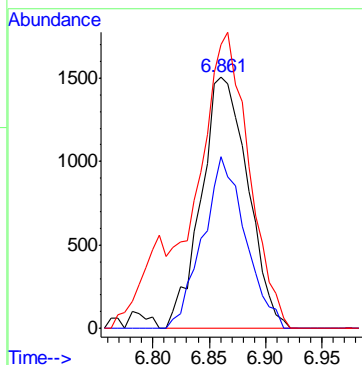
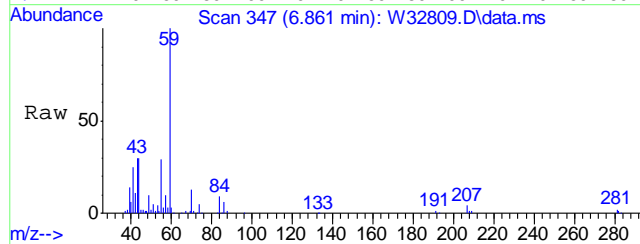
Tgt Ion	Ratio	Lower	Upper
45	100		
46	41.2	20.6	60.6
42	6.9	0.0	28.7





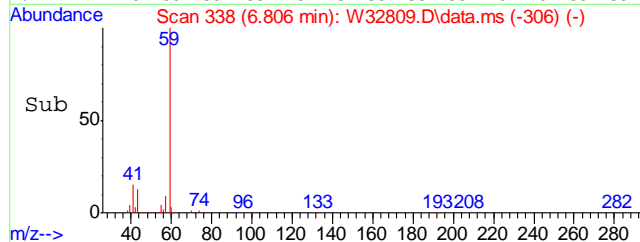
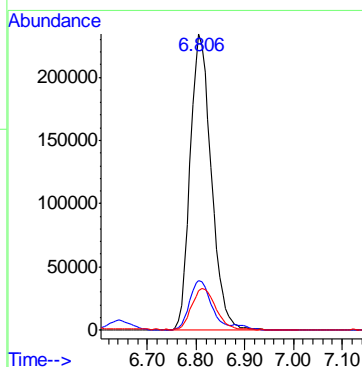
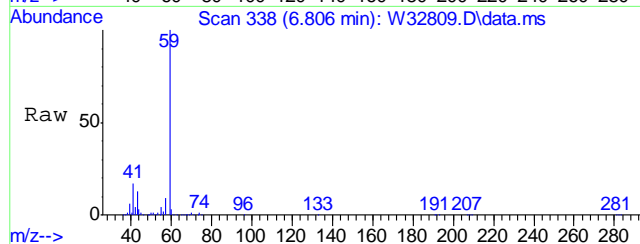
#30
METHYLENE CHLORIDE
Concen: 0.27 PPBV
RT: 6.861 min Scan# 347
Delta R.T. -0.012 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

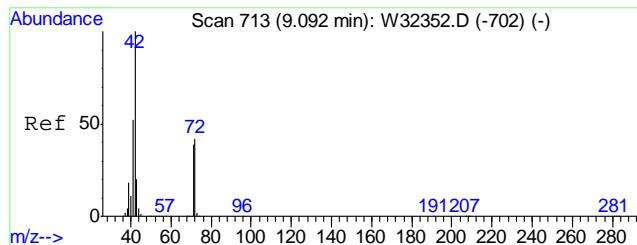
Tgt Ion	Ratio	Lower	Upper
84	100		
86	62.4	42.9	82.9
49	125.9	0.0	324.2



#34
TERTIARY BUTYL ALCOHOL
Concen: 18.83 PPBV
RT: 6.806 min Scan# 338
Delta R.T. -0.006 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

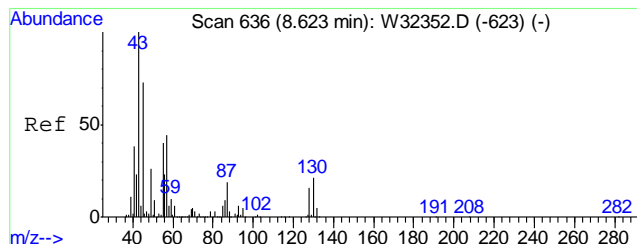
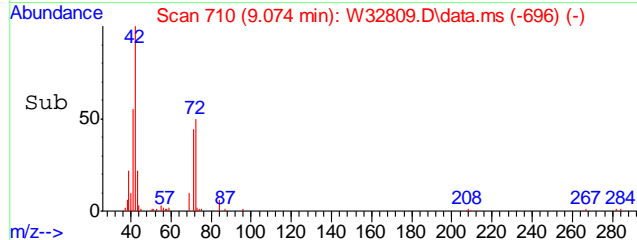
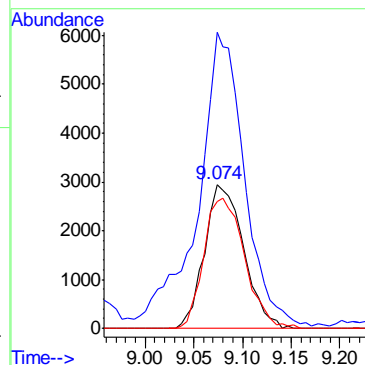
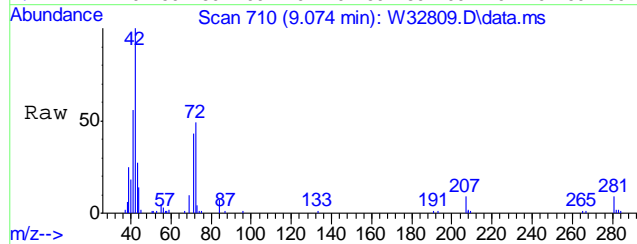
Tgt Ion	Ratio	Lower	Upper
59	100		
41	17.2	0.0	39.2
43	15.7	0.0	32.1





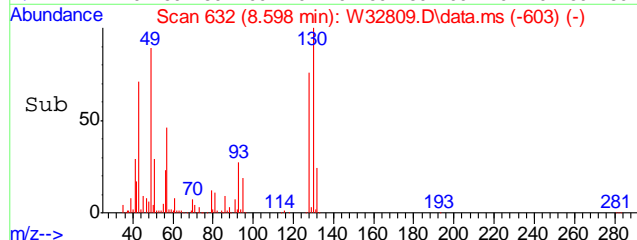
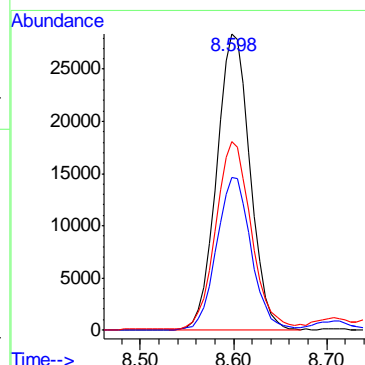
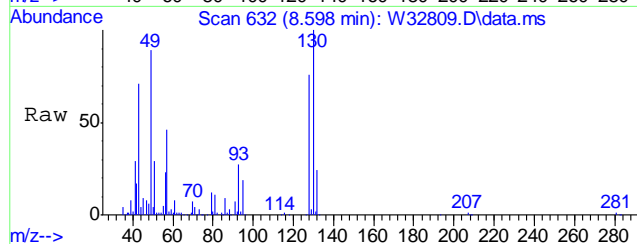
#36
TETRAHYDROFURAN
Concen: 1.06 PPBV
RT: 9.074 min Scan# 710
Delta R.T. -0.018 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

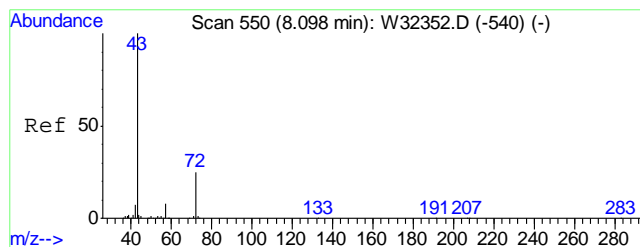
Tgt Ion: 72 Resp: 8182
Ion Ratio Lower Upper
72 100
42 241.3 220.0 260.0
71 94.3 74.2 114.2



#37
HEXANE
Concen: 2.48 PPBV
RT: 8.598 min Scan# 632
Delta R.T. -0.024 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

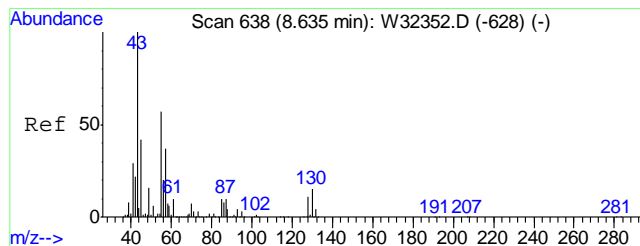
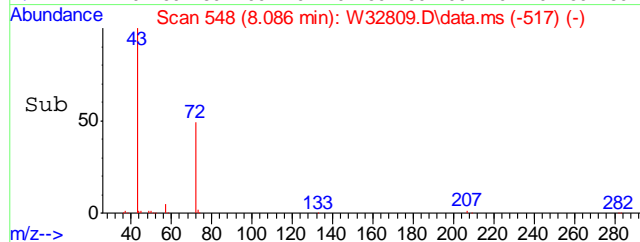
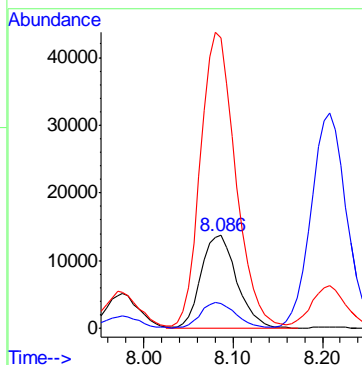
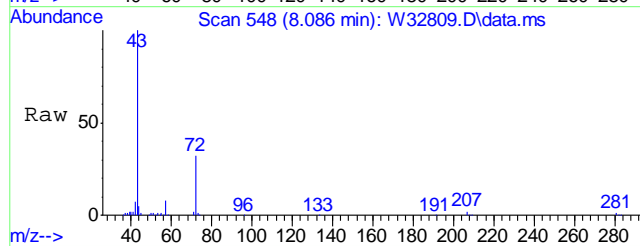
Tgt Ion: 57 Resp: 71308
Ion Ratio Lower Upper
57 100
56 53.3 33.7 73.7
41 67.4 74.5 114.5#





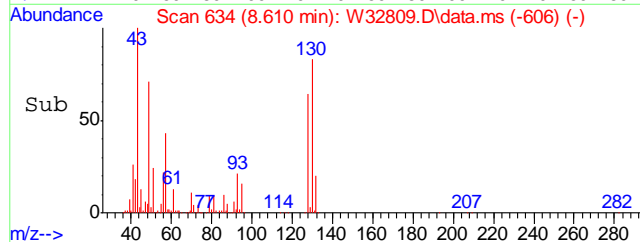
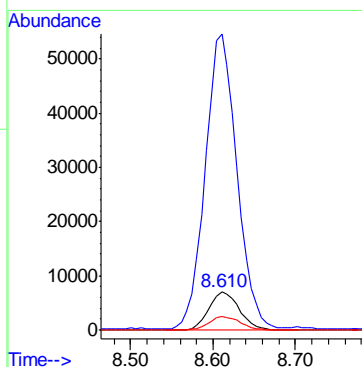
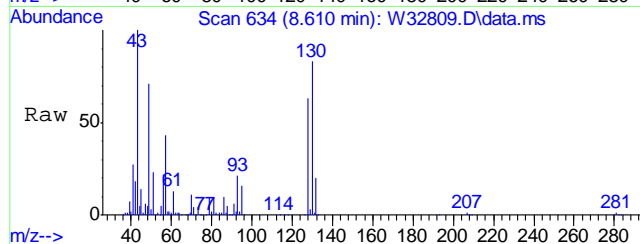
#40
METHYL ETHYL KETONE
Concen: 4.80 PPBV
RT: 8.086 min Scan# 548
Delta R.T. -0.012 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

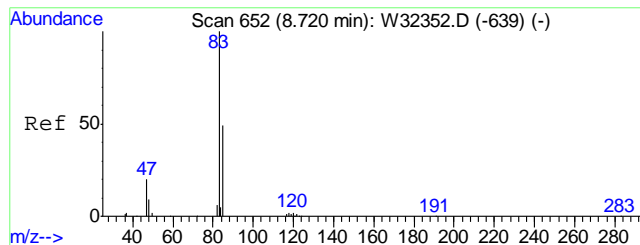
Tgt Ion: 72 Resp: 38041
Ion Ratio Lower Upper
72 100
57 26.2 11.1 51.1
43 313.3 386.1 426.1#



#43
ETHYL ACETATE
Concen: 3.56 PPBV
RT: 8.610 min Scan# 634
Delta R.T. -0.024 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

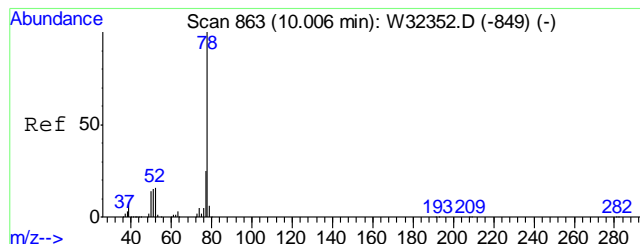
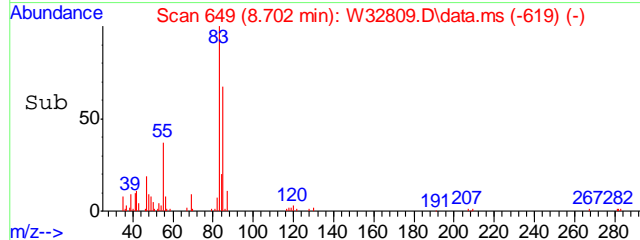
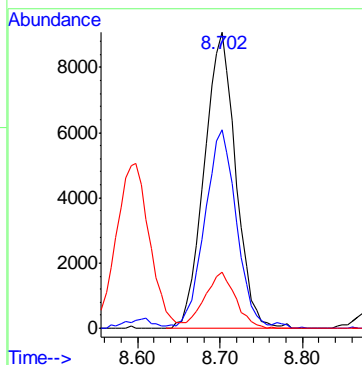
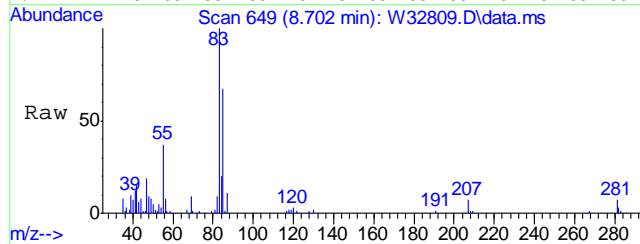
Tgt Ion: 61 Resp: 18281
Ion Ratio Lower Upper
61 100
43 798.1 1488.2 1528.2#
88 35.7 27.8 67.8





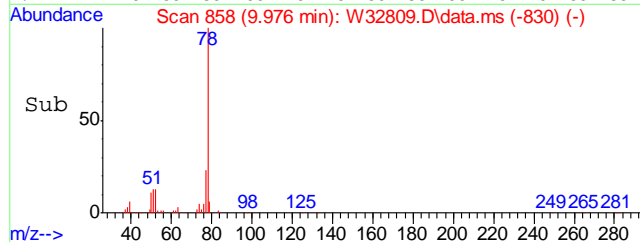
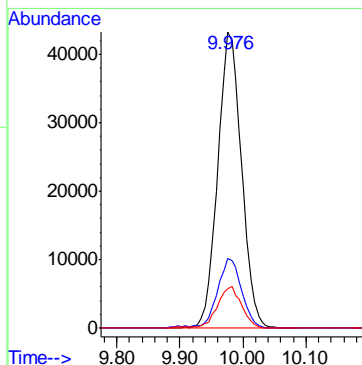
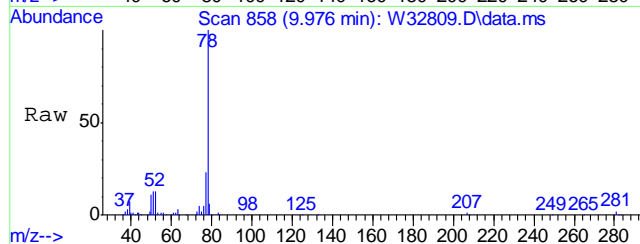
#45
CHLOROFORM
Concen: 0.78 PPBV
RT: 8.702 min Scan# 649
Delta R.T. -0.018 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

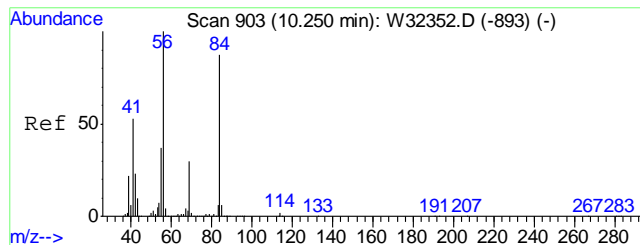
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	44.6	84.6
47	18.5	2.6	42.6



#51
BENZENE
Concen: 2.30 PPBV
RT: 9.976 min Scan# 858
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

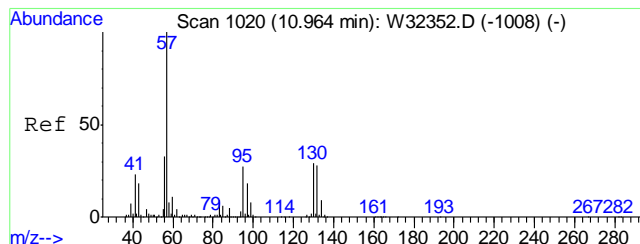
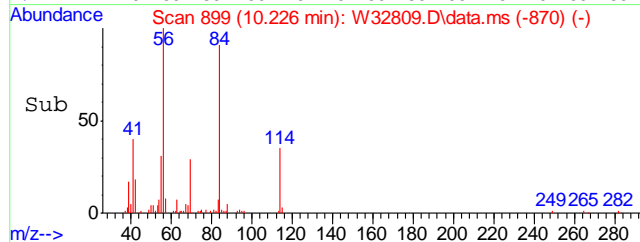
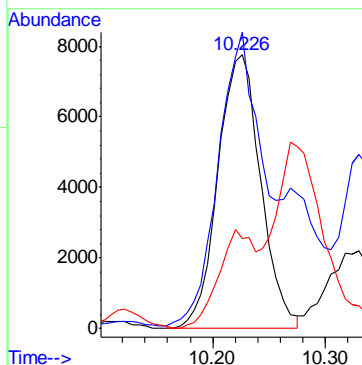
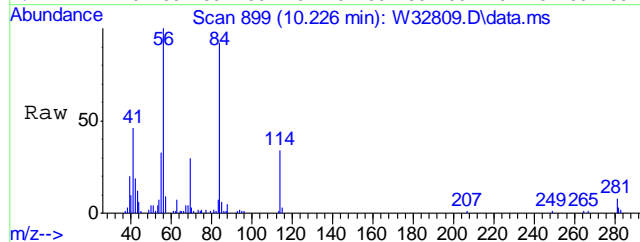
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	4.7	44.7
52	14.1	0.0	35.9





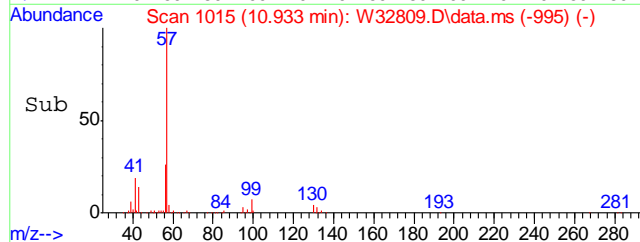
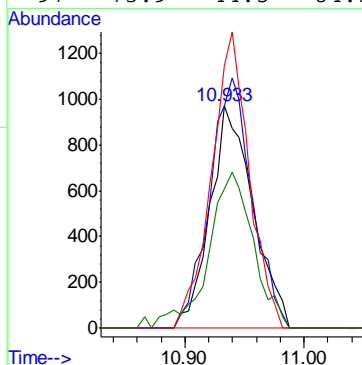
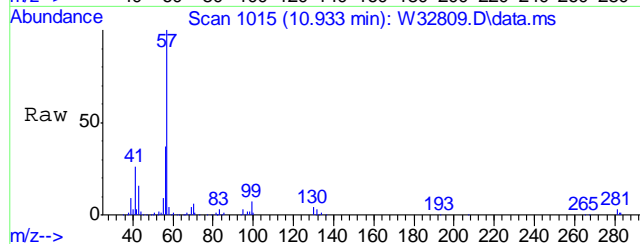
#52
CYCLOHEXANE
Concen: 0.82 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.024 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

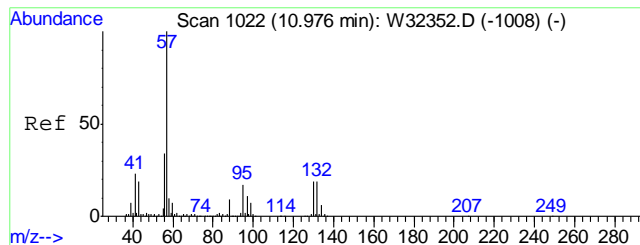
Tgt Ion: 84 Resp: 20388
Ion Ratio Lower Upper
84 100
56 108.9 102.7 142.7
69 29.7 20.8 60.8



#54
TRICHLOROETHYLENE
Concen: 0.13 PPBV
RT: 10.933 min Scan# 1015
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

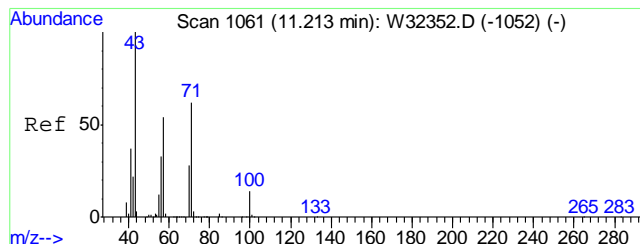
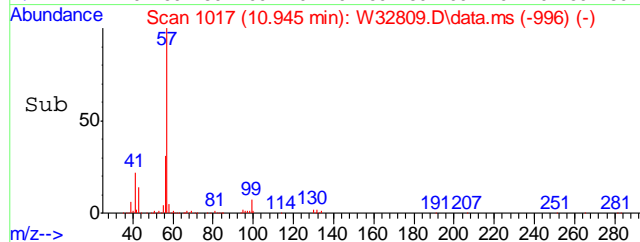
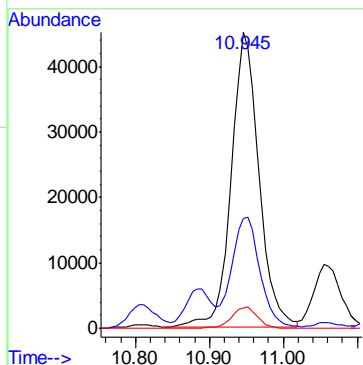
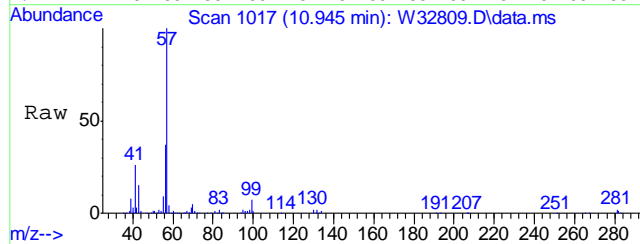
Tgt Ion: 95 Resp: 2442
Ion Ratio Lower Upper
95 100
132 111.1 84.3 124.3
130 116.8 88.4 128.4
97 73.9 44.5 84.5





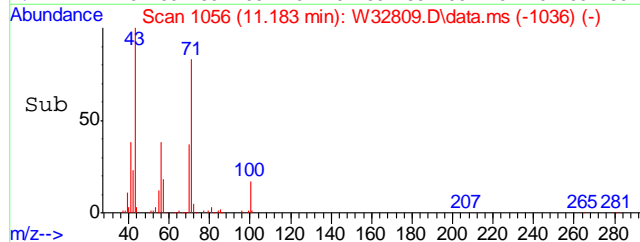
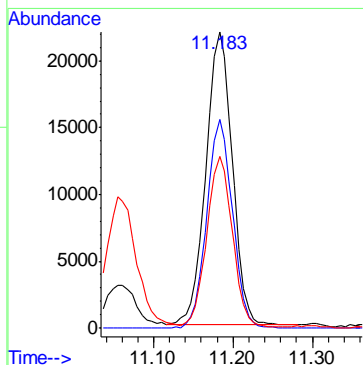
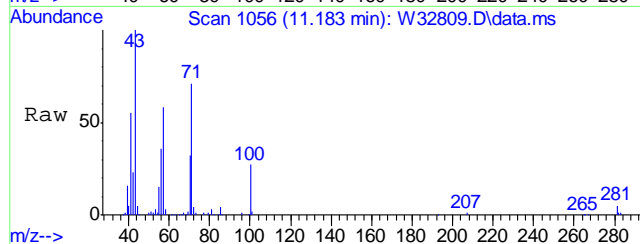
#59
2,2,4-TRIMETHYLPENTANE
Concen: 1.38 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

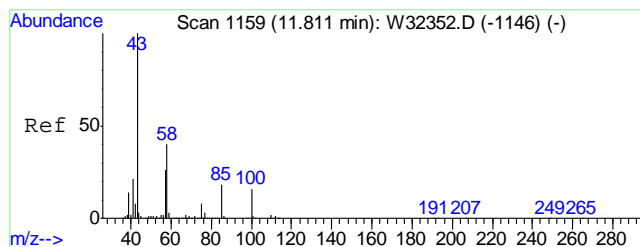
Tgt Ion	Ratio	Lower	Upper
57	100		
56	37.5	13.5	53.5
99	6.9	0.0	27.7



#62
HEPTANE
Concen: 1.60 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

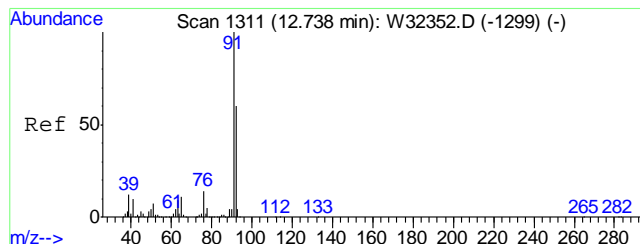
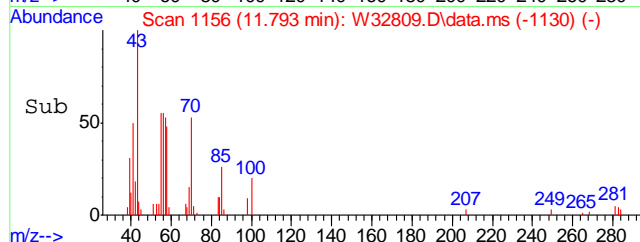
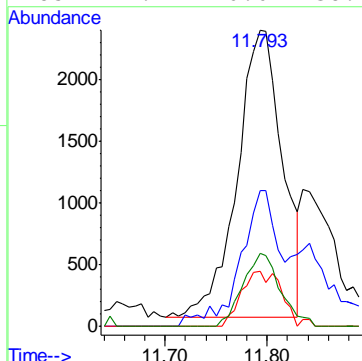
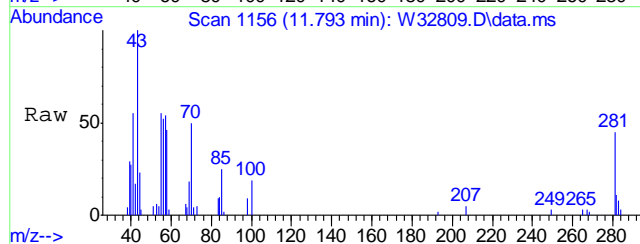
Tgt Ion	Ratio	Lower	Upper
43	100		
71	69.2	41.6	81.6
57	55.7	34.6	74.6





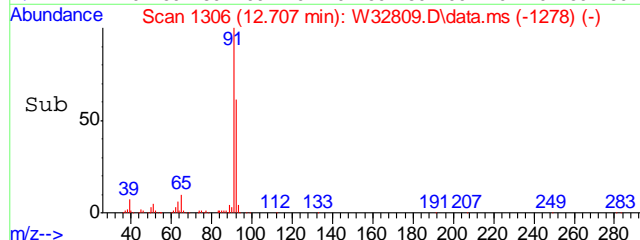
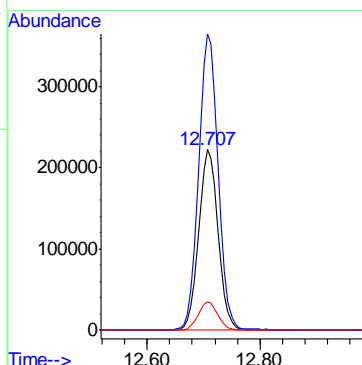
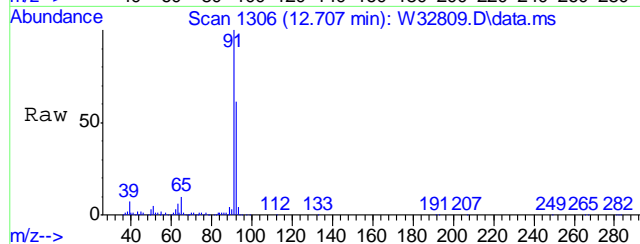
#64
METHYL ISOBUTYL KETONE
Concen: 0.21 PPBV
RT: 11.793 min Scan# 1156
Delta R.T. -0.018 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

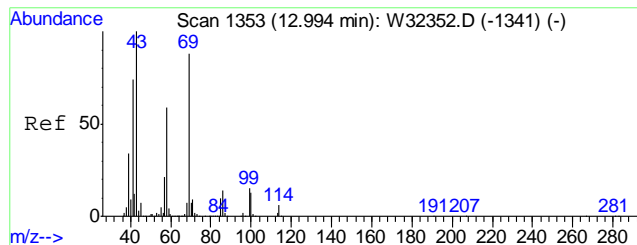
Tgt Ion: 43 Resp: 7167
Ion Ratio Lower Upper
43 100
58 39.0 20.7 60.7
100 17.1 0.0 36.0
85 21.1 0.0 38.1



#66
TOLUENE
Concen: 16.30 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

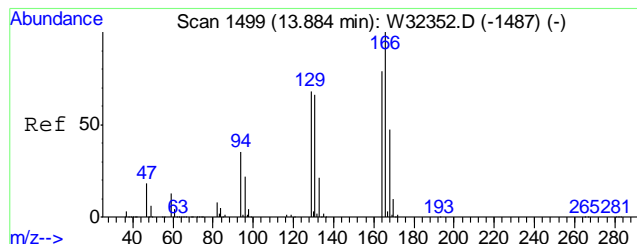
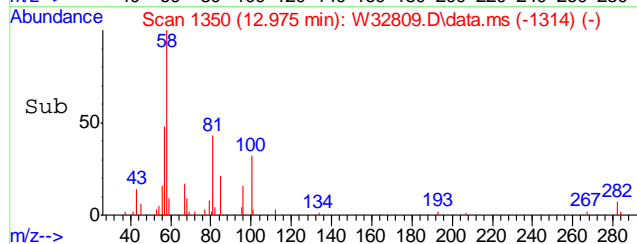
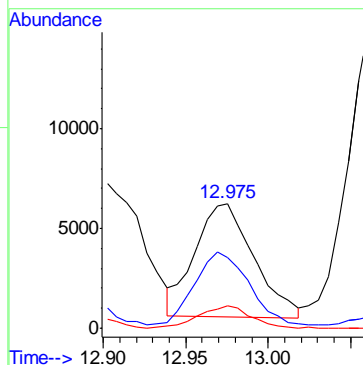
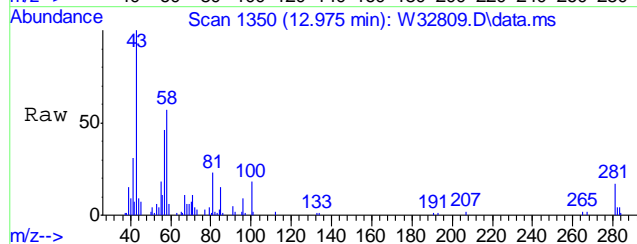
Tgt Ion: 92 Resp: 538161
Ion Ratio Lower Upper
92 100
91 165.0 146.2 186.2
65 15.7 0.4 40.4





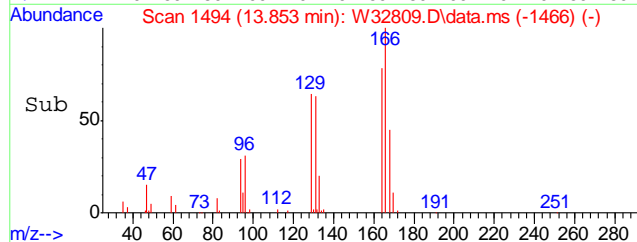
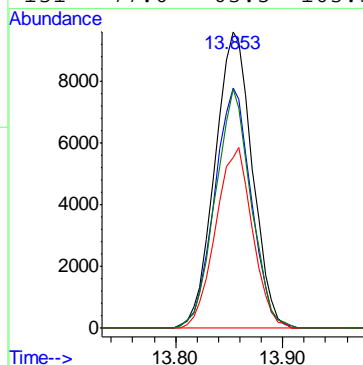
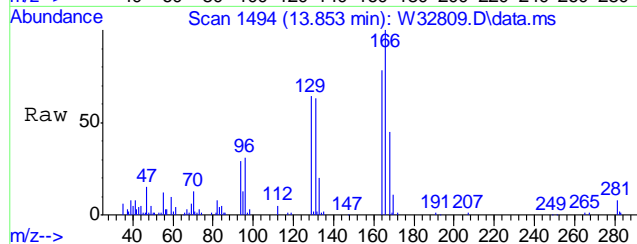
#71
2-HEXANONE
Concen: 0.51 PPBV
RT: 12.975 min Scan# 1350
Delta R.T. -0.018 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

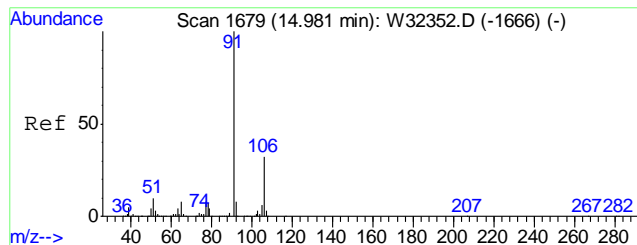
Tgt Ion: 43 Resp: 14055
Ion Ratio Lower Upper
43 100
58 66.1 39.4 79.4
100 17.9 0.0 33.6



#72
TETRACHLOROETHYLENE
Concen: 1.25 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

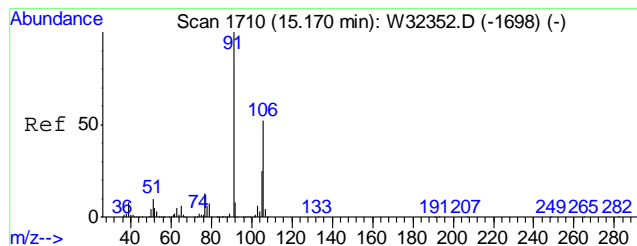
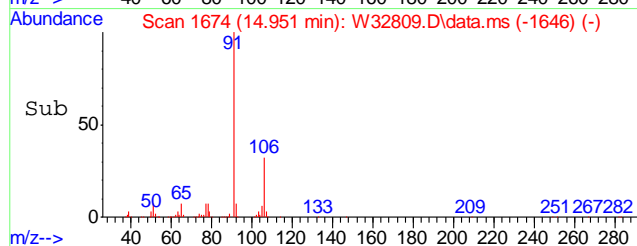
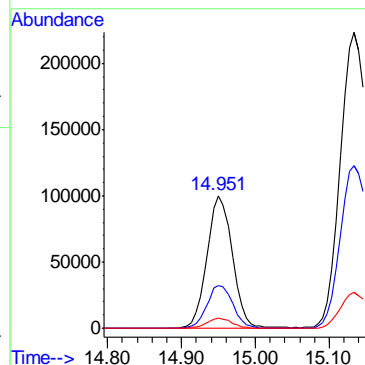
Tgt Ion: 164 Resp: 23331
Ion Ratio Lower Upper
164 100
129 79.8 66.3 106.3
168 59.9 41.0 81.0
131 77.0 63.5 103.5





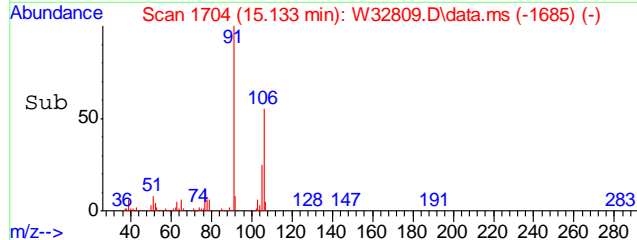
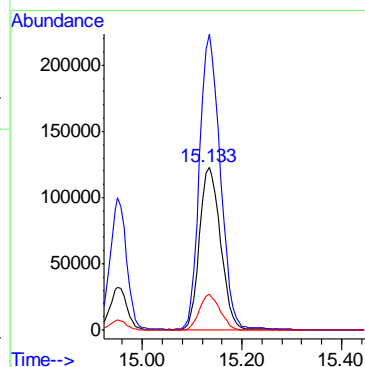
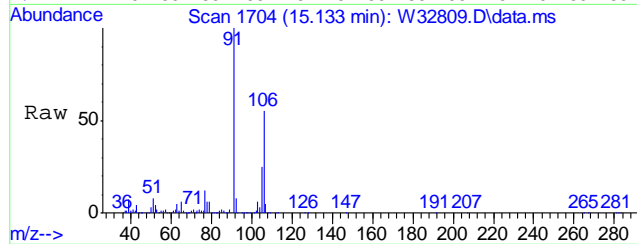
#78
ETHYLBENZENE
Concen: 4.17 PPBV
RT: 14.951 min Scan# 1674
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

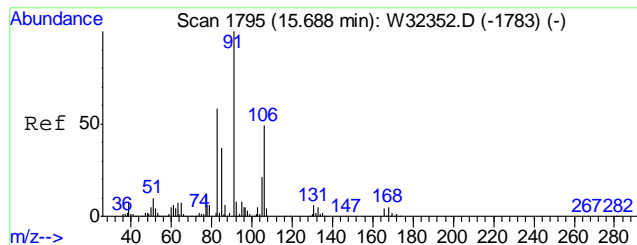
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.5	11.7	51.7
77	7.7	0.0	28.1



#79
m,p-XYLENE
Concen: 16.74 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

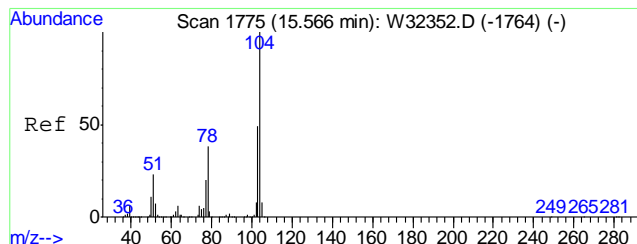
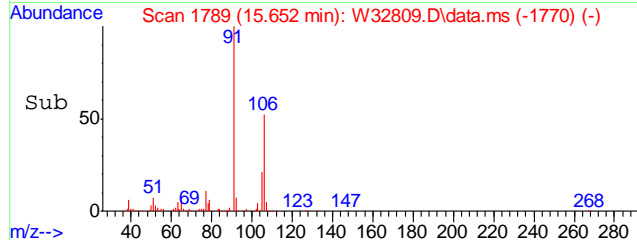
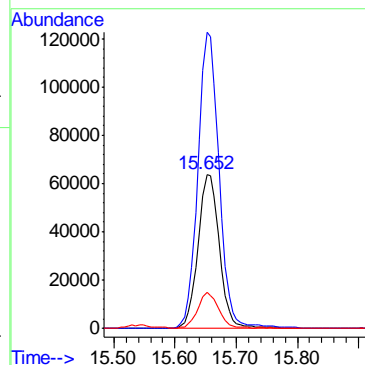
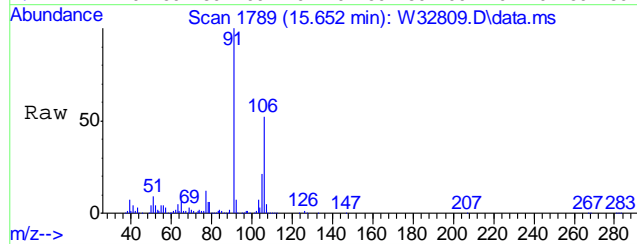
Tgt Ion	Ratio	Lower	Upper
106	100		
91	181.4	152.6	228.8
77	21.8	19.9	29.9





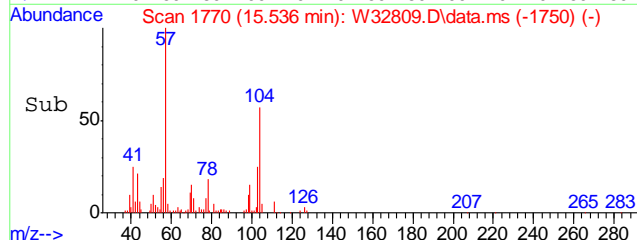
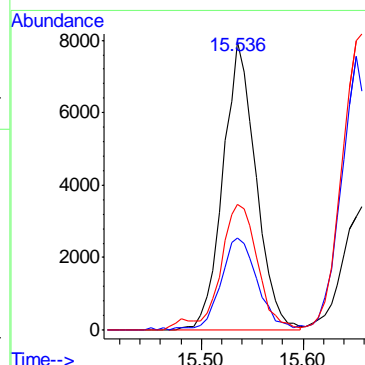
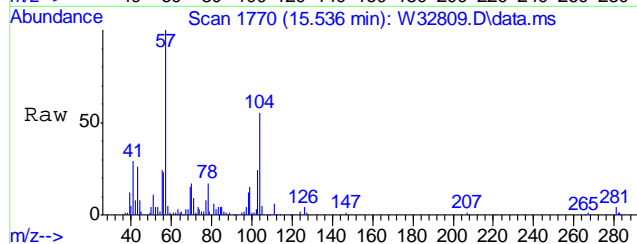
#80
o-XYLENE
Concen: 7.39 PPBV
RT: 15.652 min Scan# 1789
Delta R.T. -0.037 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

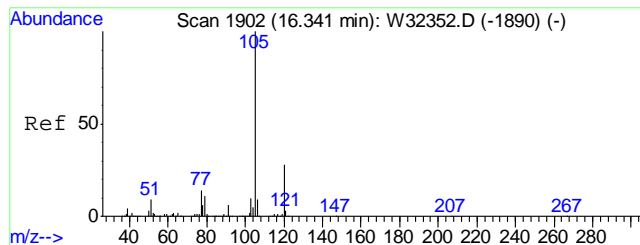
Tgt Ion	Ratio	Lower	Upper
106	100		
91	190.5	182.1	222.1
77	22.2	4.0	44.0



#81
STYRENE
Concen: 0.61 PPBV
RT: 15.536 min Scan# 1770
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

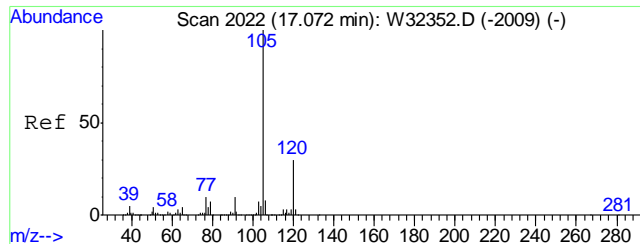
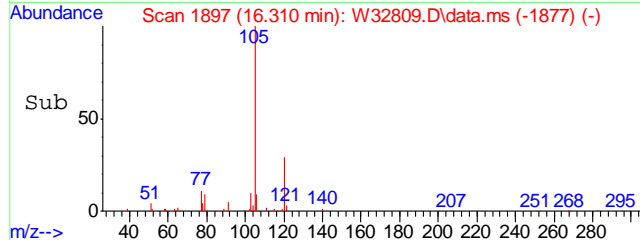
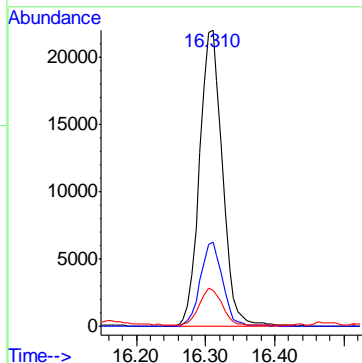
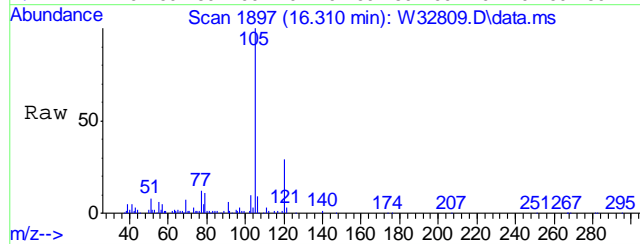
Tgt Ion	Ratio	Lower	Upper
104	100		
78	35.3	18.2	58.2
103	45.9	28.2	68.2





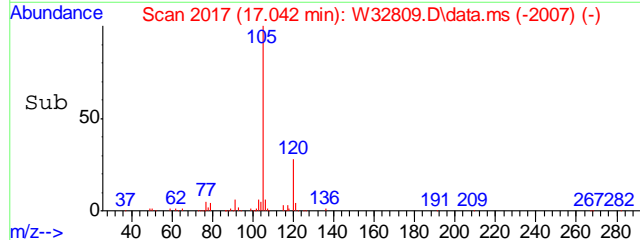
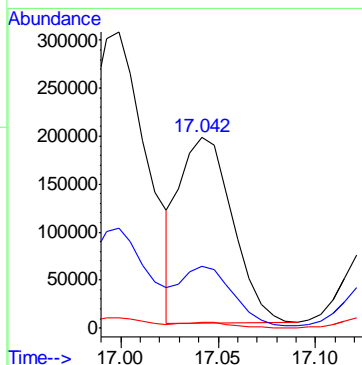
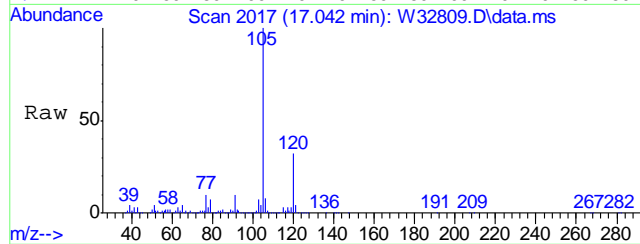
#87
ISOPROPYLBENZENE
Concen: 0.86 PPBV
RT: 16.310 min Scan# 1897
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

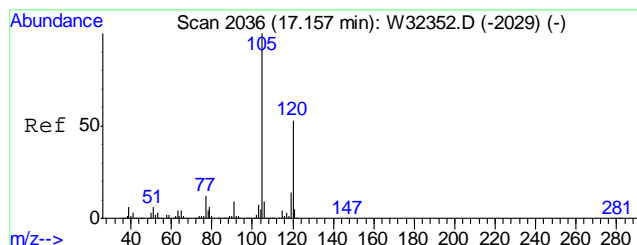
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.9	6.9	46.9
77	12.7	0.0	33.9



#91
4-ETHYLTOLUENE
Concen: 7.45 PPBV
RT: 17.042 min Scan# 2017
Delta R.T. -0.030 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

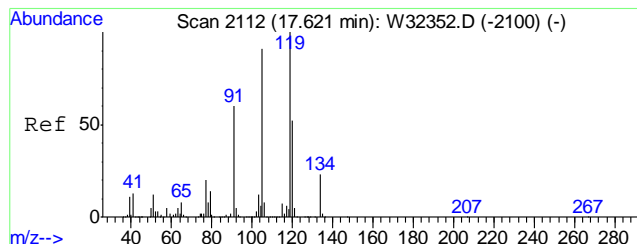
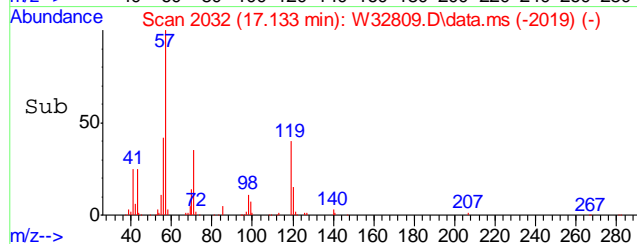
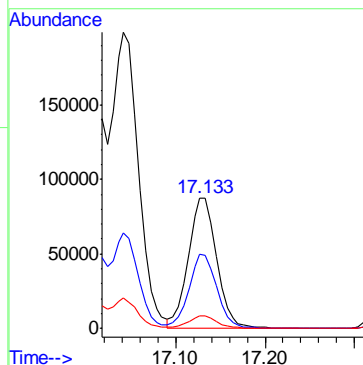
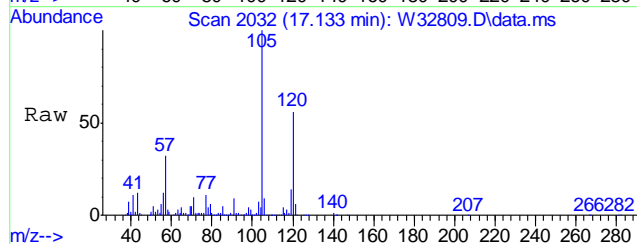
Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.5	9.8	49.8
119	2.8	0.0	22.9





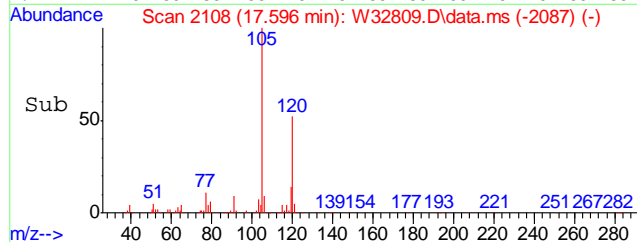
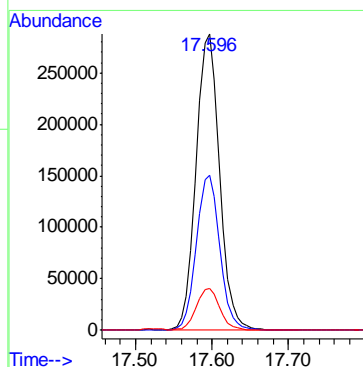
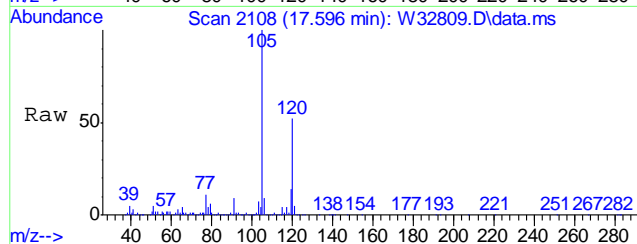
#92
1,3,5-TRIMETHYLBENZENE
Concen: 4.79 PPBV
RT: 17.133 min Scan# 2032
Delta R.T. -0.024 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

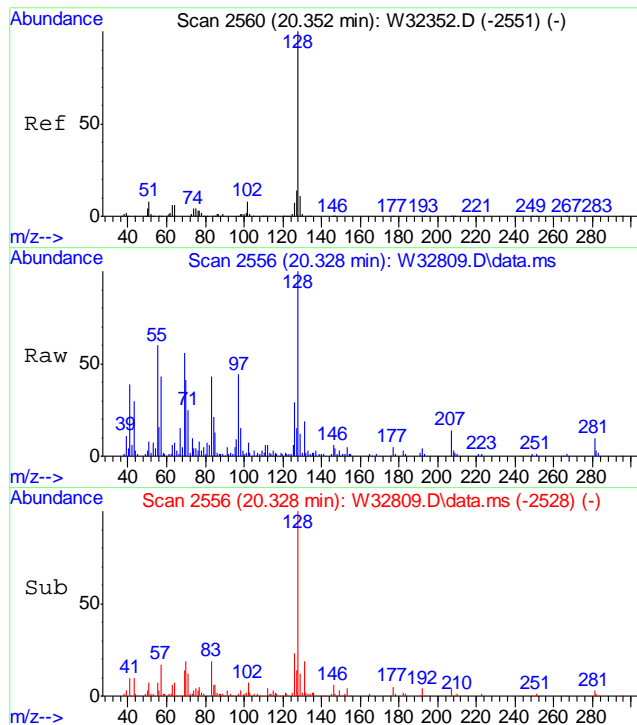
Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.8	32.9	72.9
91	9.0	0.0	29.3



#95
1,2,4-TRIMETHYLBENZENE
Concen: 16.50 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32809.D
Acq: 20 Jul 2011 3:28 pm

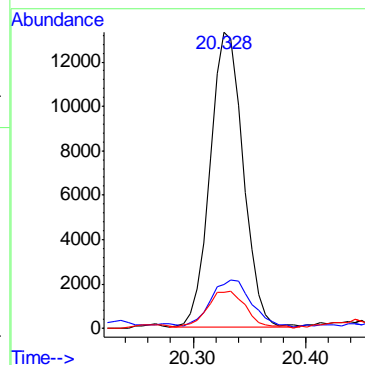
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.0	39.3	79.3
119	14.1	101.1	141.1#





#107
 NAPHTHALENE
 Concen: 3.24 PPBV
 RT: 20.328 min Scan# 2556
 Delta R.T. -0.024 min
 Lab File: W32809.D
 Acq: 20 Jul 2011 3:28 pm

Tgt Ion:128	Resp:	26937
Ion Ratio	Lower	Upper
128	100	
127	19.5	0.0 34.3
129	15.0	0.0 30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32818.D
 Acq On : 20 Jul 2011 9:37 pm
 Operator : YOU MINH
 Sample : JA81330-3
 Misc : MS15514,VW1341,100,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 00:25:41 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	160219	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	816030	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	358248	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	357248	10.00	PPBV	-0.03

System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	181666	4.69	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	93.80%

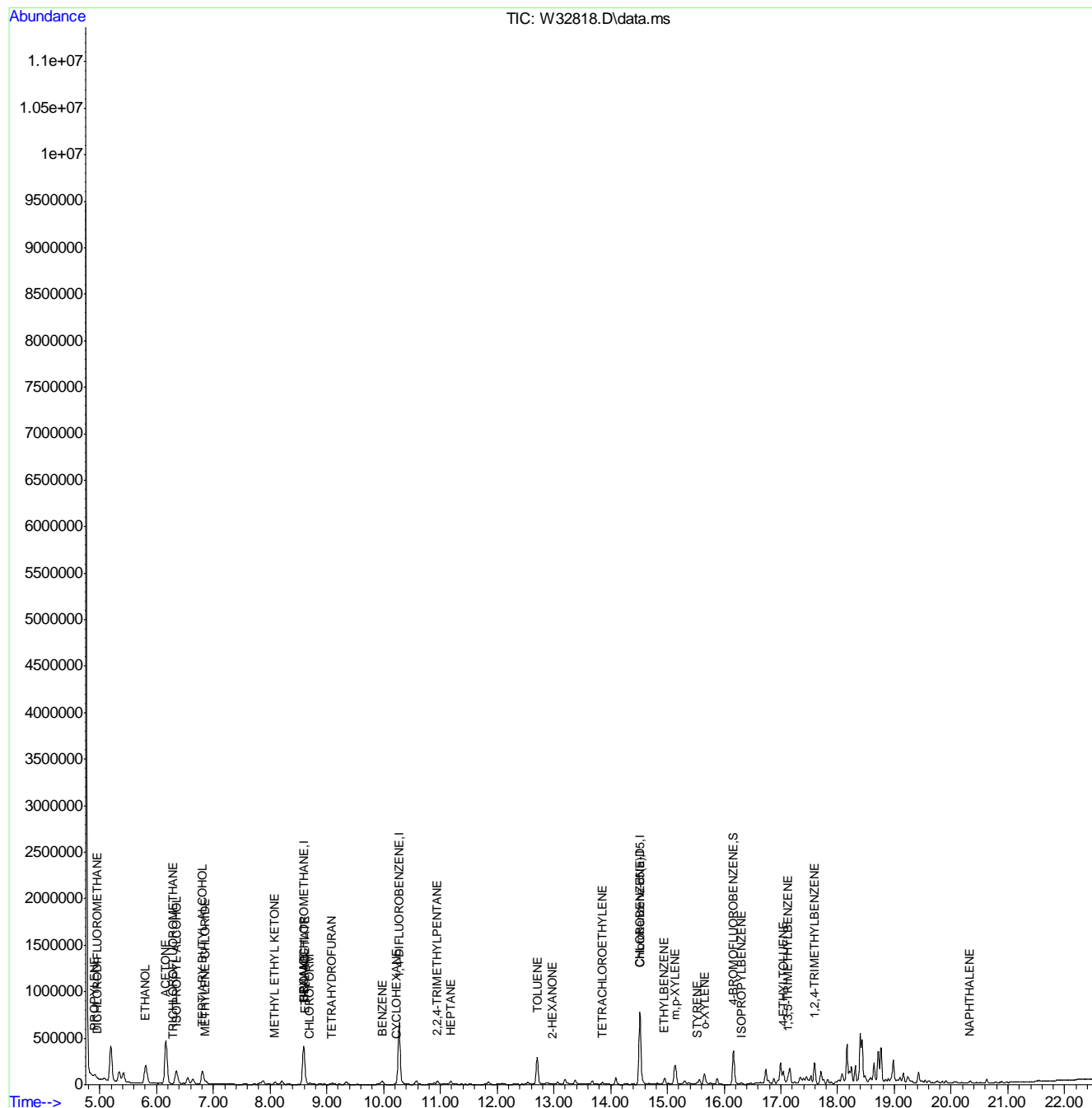
Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.958	85	6020	0.13	PPBV	98
6) PROPYLENE	4.910	41	28732	1.43	PPBV	89
18) TRICHLOROFLUOROMETHANE	6.294	101	4751	0.11	PPBV	96
19) ISOPROPYL ALCOHOL	6.348	45	307763	7.88	PPBV	99
20) ACETONE	6.159	58	285239	27.83	PPBV	91
27) ETHANOL	5.806	45	399320	38.95	PPBV	98
30) METHYLENE CHLORIDE	6.861	84	8088	0.42	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.806	59	257304	5.69	PPBV	95
36) TETRAHYDROFURAN	9.092	72	3132	0.33	PPBV #	79
37) HEXANE	8.598	57	29715	0.85	PPBV #	83
40) METHYL ETHYL KETONE	8.086	72	13207	1.37	PPBV #	79
43) ETHYL ACETATE	8.610	61	6962	1.12	PPBV #	1
45) CHLOROFORM	8.689	83	8279	0.22	PPBV	96
51) BENZENE	9.982	78	41951	0.67	PPBV	98
52) CYCLOHEXANE	10.220	84	7450	0.24	PPBV #	72
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	44677	0.42	PPBV	91
62) HEPTANE	11.183	43	21008	0.52	PPBV	99
66) TOLUENE	12.707	92	177069	4.24	PPBV	98
71) 2-HEXANONE	12.981	43	5302	0.15	PPBV	100
72) TETRACHLOROETHYLENE	13.853	164	6408	0.27	PPBV	98
78) ETHYLBENZENE	14.950	91	73761	1.04	PPBV	99
79) m,p-XYLENE	15.133	106	106567	3.86	PPBV	97
80) o-XYLENE	15.652	106	45230	1.70	PPBV	99
81) STYRENE	15.536	104	5023	0.13	PPBV	97
87) ISOPROPYLBENZENE	16.304	105	15234	0.20	PPBV	100
91) 4-ETHYLTOLUENE	17.041	105	98367	1.58	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	54992	1.07	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.590	105	163145	3.45	PPBV #	32
107) NAPHTHALENE	20.327	128	6277	0.59	PPBV	94

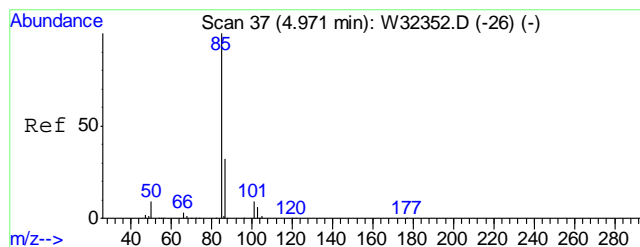
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32818.D
Acq On : 20 Jul 2011 9:37 pm
Operator : YOUMINH
Sample : JA81330-3
Misc : MS15514,VW1341,100,,,,,1
ALS Vial : 4 Sample Multiplier: 1

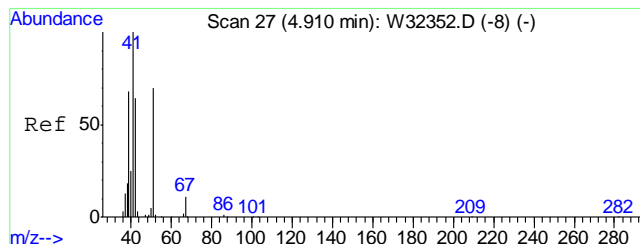
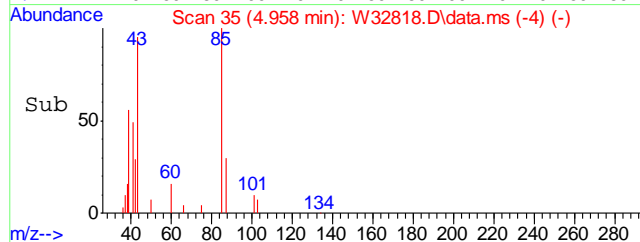
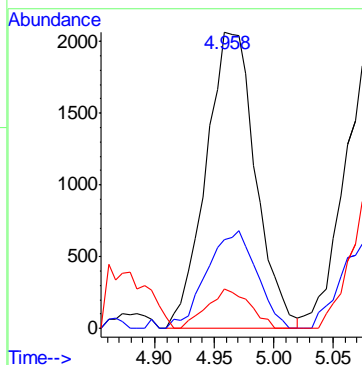
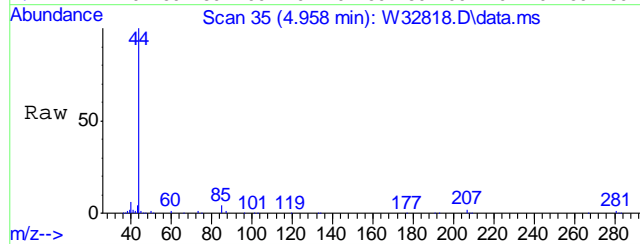
Quant Time: Aug 17 00:25:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





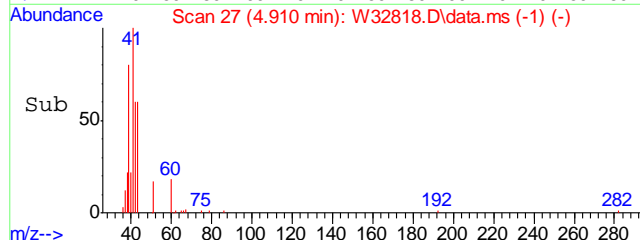
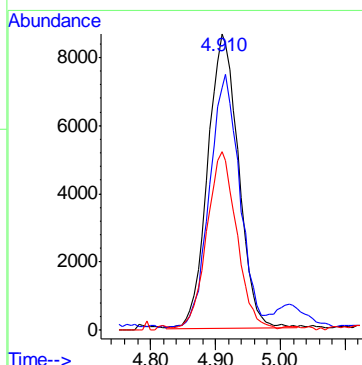
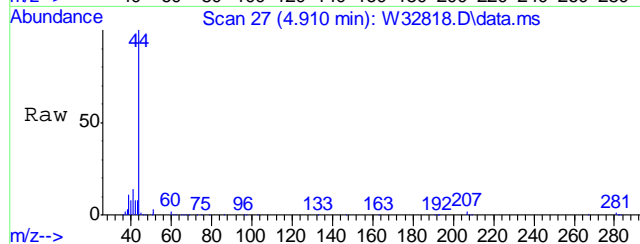
#5
 DICHLORODIFLUOROMETHANE
 Concen: 0.13 PPBV
 RT: 4.958 min Scan# 35
 Delta R.T. -0.012 min
 Lab File: W32818.D
 Acq: 20 Jul 2011 9:37 pm

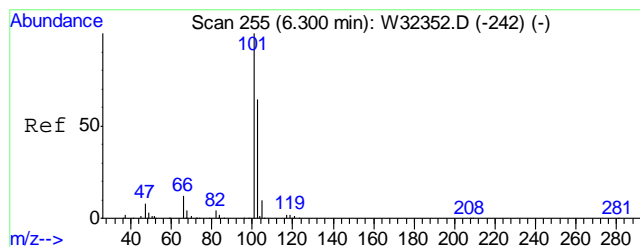
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.9	12.0	52.0
50	11.3	0.0	30.7



#6
 PROPYLENE
 Concen: 1.43 PPBV
 RT: 4.910 min Scan# 27
 Delta R.T. -0.000 min
 Lab File: W32818.D
 Acq: 20 Jul 2011 9:37 pm

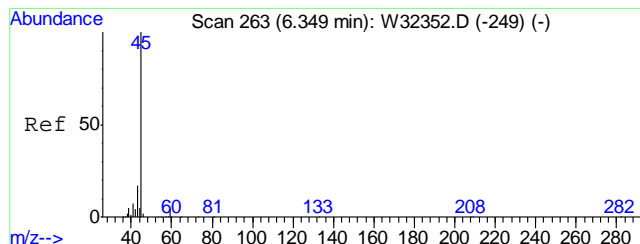
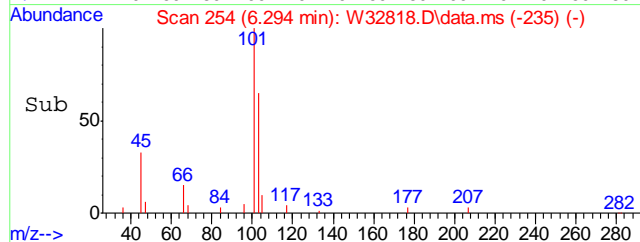
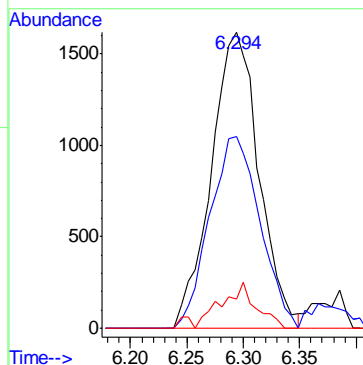
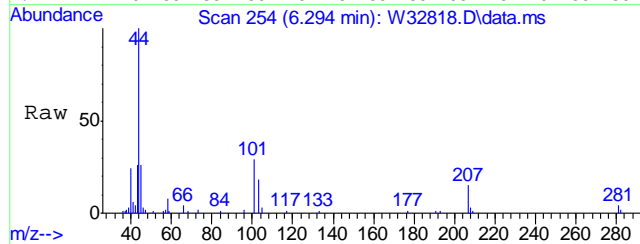
Tgt Ion	Ratio	Lower	Upper
41	100		
39	81.9	47.7	87.7
42	60.4	43.7	83.7





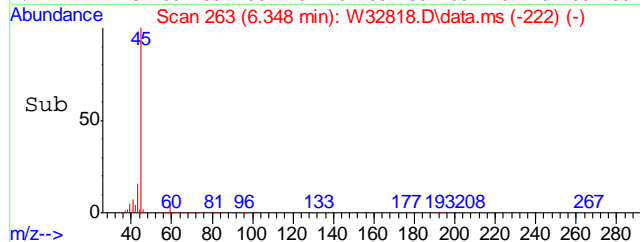
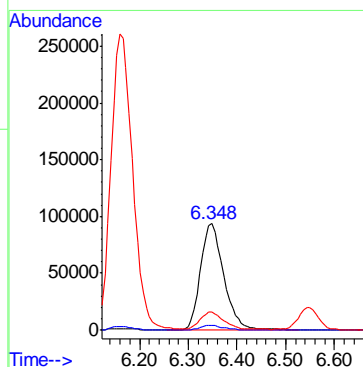
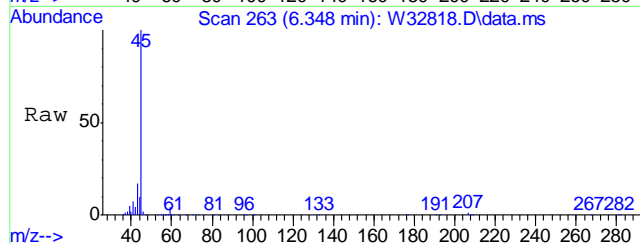
#18
 TRICHLOROFLUOROMETHANE
 Concen: 0.11 PPBV
 RT: 6.294 min Scan# 254
 Delta R.T. -0.006 min
 Lab File: W32818.D
 Acq: 20 Jul 2011 9:37 pm

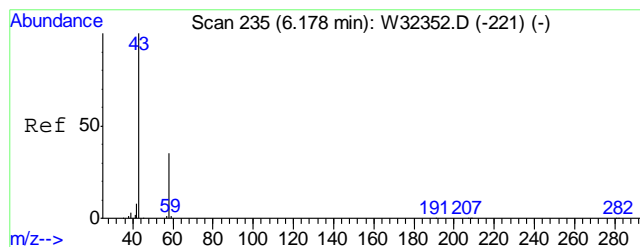
Tgt Ion	Ratio	Lower	Upper
101	100		
103	68.0	44.9	84.9
105	11.2	0.0	30.4



#19
 ISOPROPYL ALCOHOL
 Concen: 7.88 PPBV
 RT: 6.348 min Scan# 263
 Delta R.T. -0.000 min
 Lab File: W32818.D
 Acq: 20 Jul 2011 9:37 pm

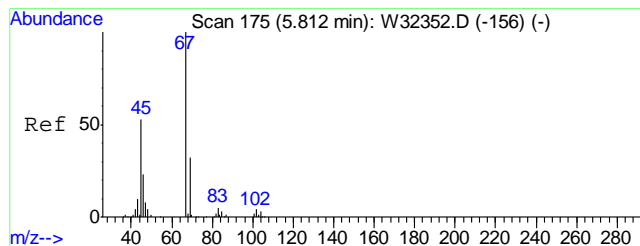
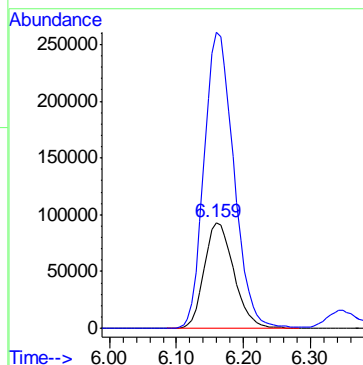
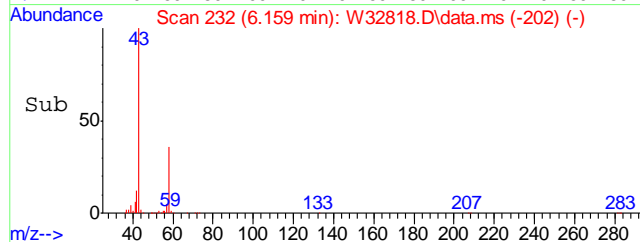
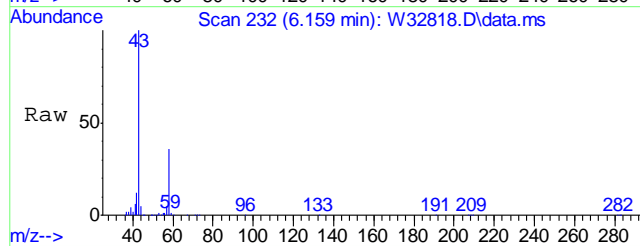
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.4	0.0	24.3
43	16.8	0.0	37.5





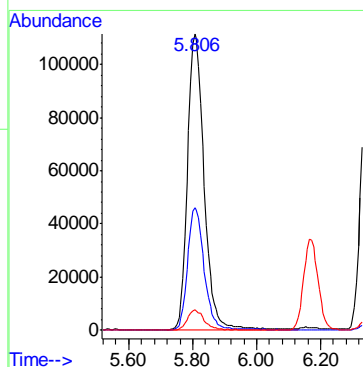
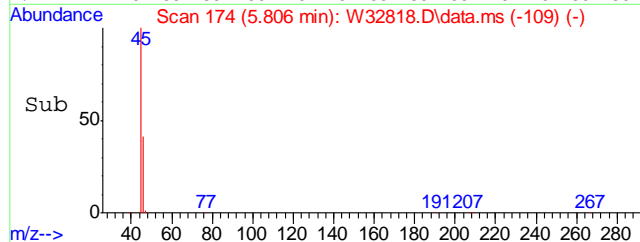
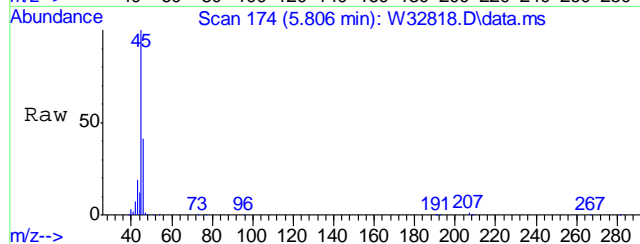
#20
 ACETONE
 Concen: 27.83 PPBV
 RT: 6.159 min Scan# 232
 Delta R.T. -0.018 min
 Lab File: W32818.D
 Acq: 20 Jul 2011 9:37 pm

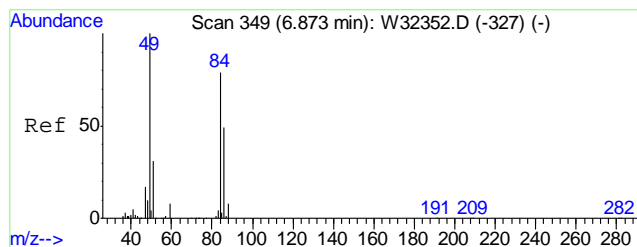
Tgt Ion: 58 Resp: 285239
 Ion Ratio Lower Upper
 58 100
 43 280.4 277.6 317.6



#27
 ETHANOL
 Concen: 38.95 PPBV
 RT: 5.806 min Scan# 174
 Delta R.T. -0.006 min
 Lab File: W32818.D
 Acq: 20 Jul 2011 9:37 pm

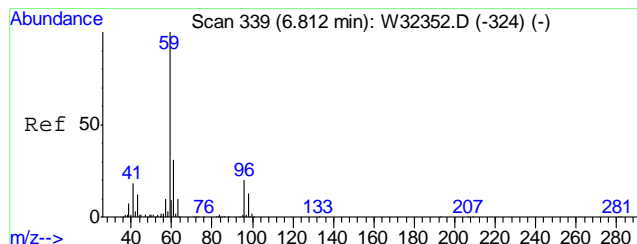
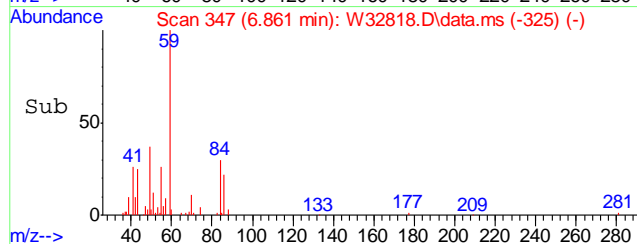
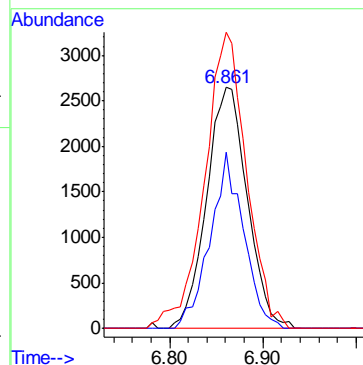
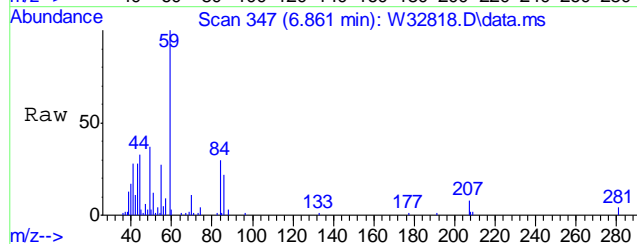
Tgt Ion: 45 Resp: 399320
 Ion Ratio Lower Upper
 45 100
 46 41.4 20.6 60.6
 42 6.8 0.0 28.7





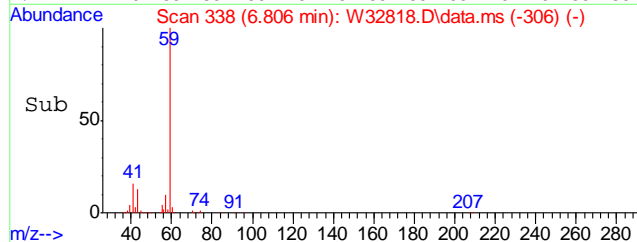
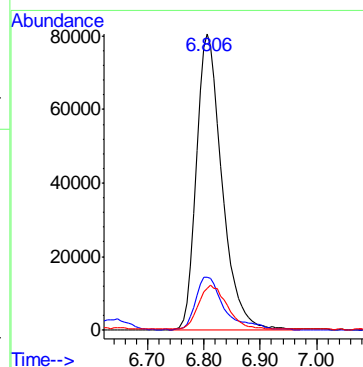
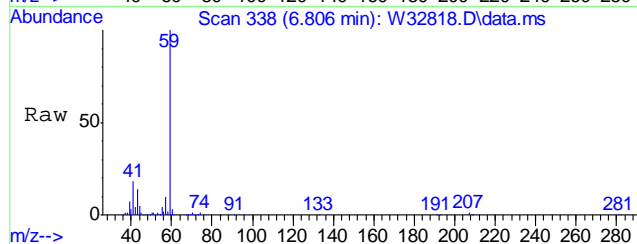
#30
METHYLENE CHLORIDE
Concen: 0.42 PPBV
RT: 6.861 min Scan# 347
Delta R.T. -0.012 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

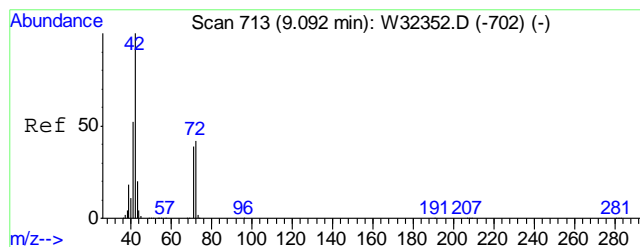
Tgt Ion	Ratio	Lower	Upper
84	100		
86	60.1	42.9	82.9
49	126.1	0.0	324.2



#34
TERTIARY BUTYL ALCOHOL
Concen: 5.69 PPBV
RT: 6.806 min Scan# 338
Delta R.T. -0.006 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

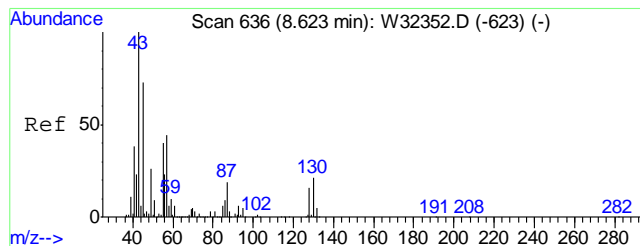
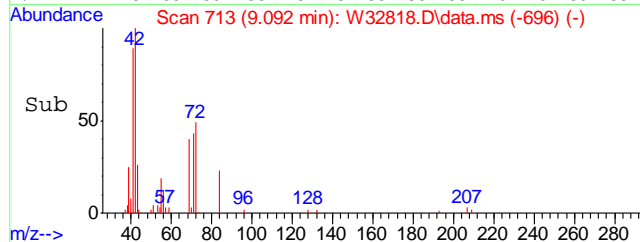
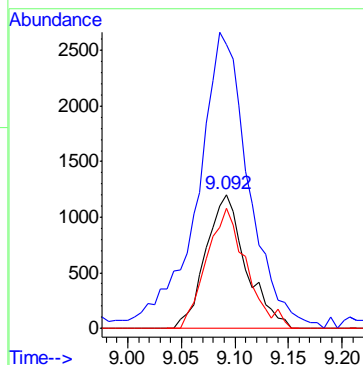
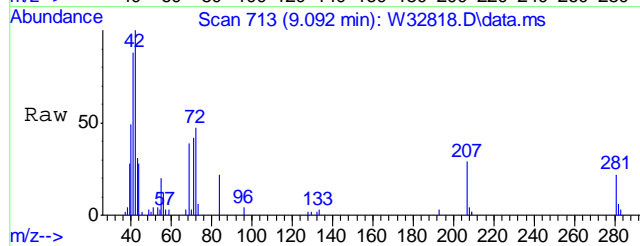
Tgt Ion	Ratio	Lower	Upper
59	100		
41	19.9	0.0	39.2
43	16.3	0.0	32.1





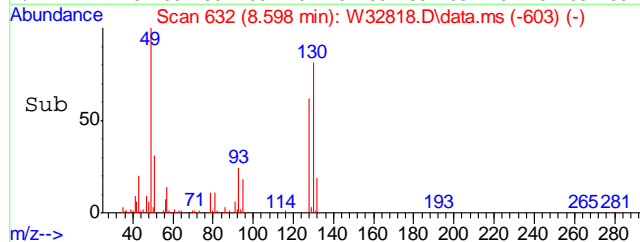
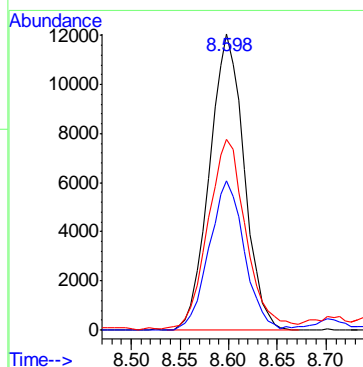
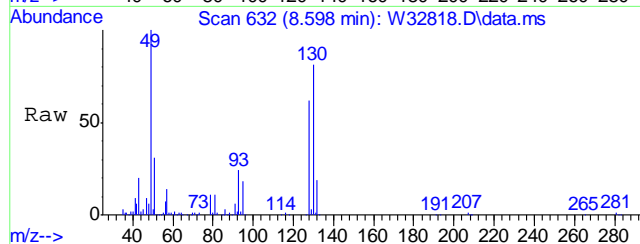
#36
TETRAHYDROFURAN
Concen: 0.33 PPBV
RT: 9.092 min Scan# 713
Delta R.T. -0.000 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

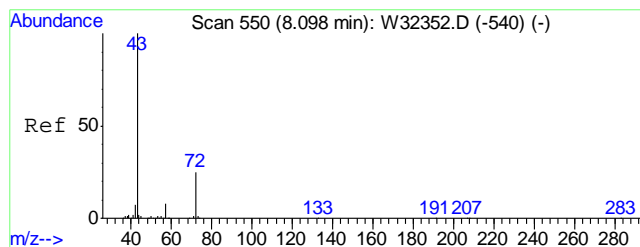
Tgt Ion: 72 Resp: 3132
Ion Ratio Lower Upper
72 100
42 285.7 220.0 260.0#
71 89.0 74.2 114.2



#37
HEXANE
Concen: 0.85 PPBV
RT: 8.598 min Scan# 632
Delta R.T. -0.024 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

Tgt Ion: 57 Resp: 29715
Ion Ratio Lower Upper
57 100
56 51.5 33.7 73.7
41 69.9 74.5 114.5#





#40

METHYL ETHYL KETONE

Concen: 1.37 PPBV

RT: 8.086 min Scan# 548

Delta R.T. -0.012 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

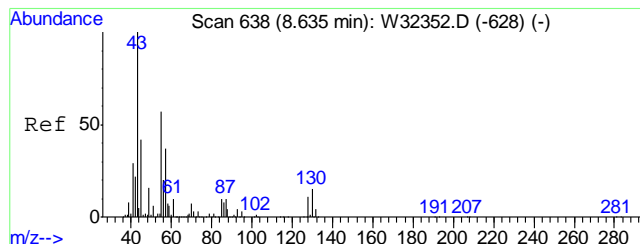
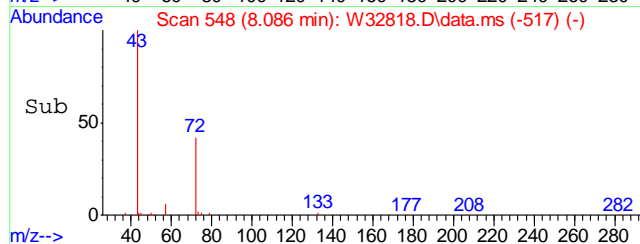
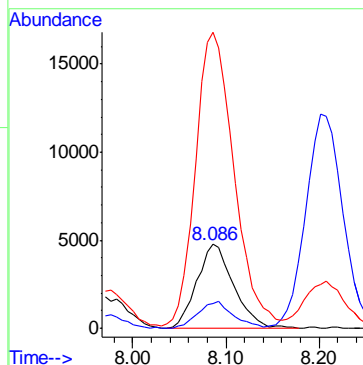
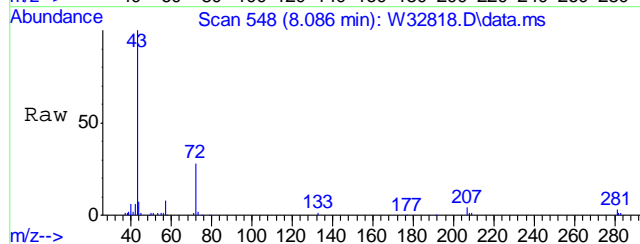
Tgt Ion: 72 Resp: 13207

Ion Ratio Lower Upper

72 100

57 28.9 11.1 51.1

43 351.9 386.1 426.1#



#43

ETHYL ACETATE

Concen: 1.12 PPBV

RT: 8.610 min Scan# 634

Delta R.T. -0.025 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

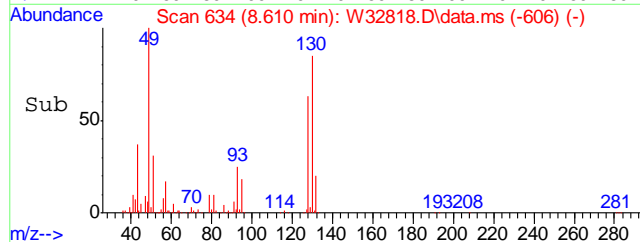
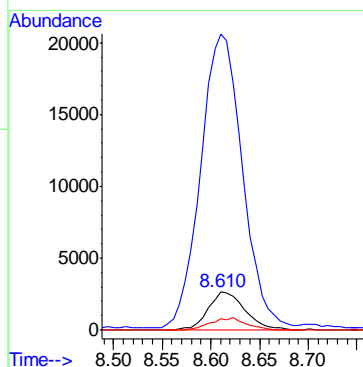
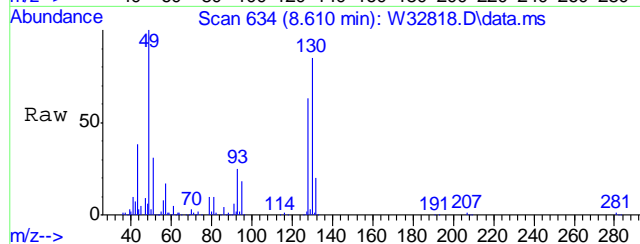
Tgt Ion: 61 Resp: 6962

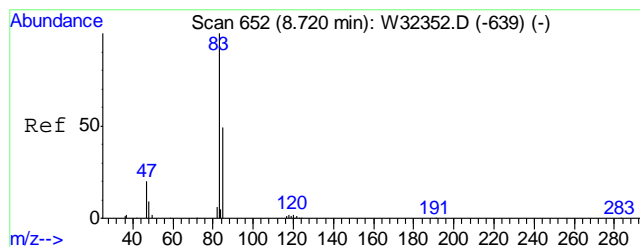
Ion Ratio Lower Upper

61 100

43 872.2 1488.2 1528.2#

88 30.6 27.8 67.8





#45

CHLOROFORM

Concen: 0.22 PPBV

RT: 8.689 min Scan# 647

Delta R.T. -0.031 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

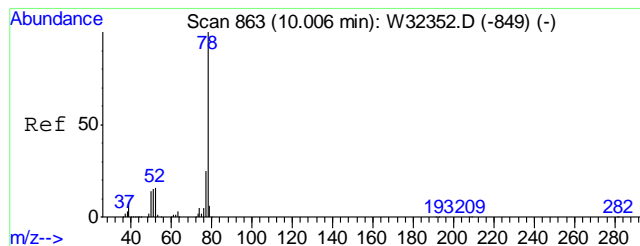
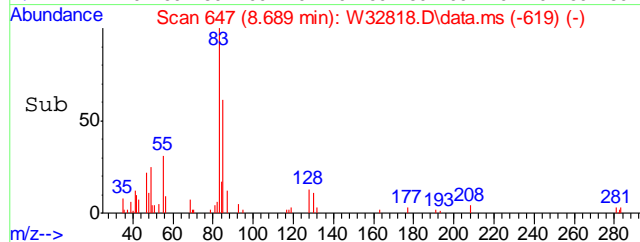
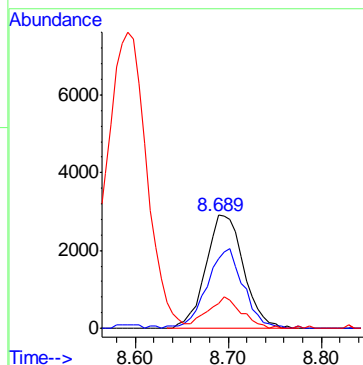
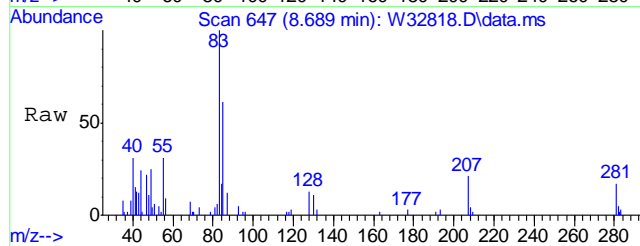
Tgt Ion: 83 Resp: 8279

Ion Ratio Lower Upper

83 100

85 67.2 44.6 84.6

47 24.8 2.6 42.6



#51

BENZENE

Concen: 0.67 PPBV

RT: 9.982 min Scan# 859

Delta R.T. -0.025 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

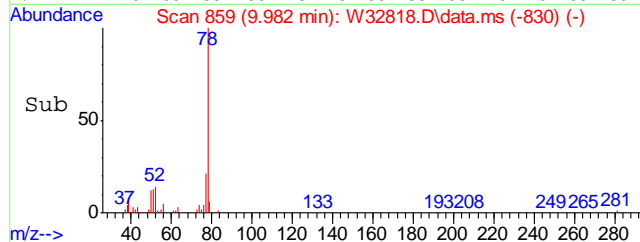
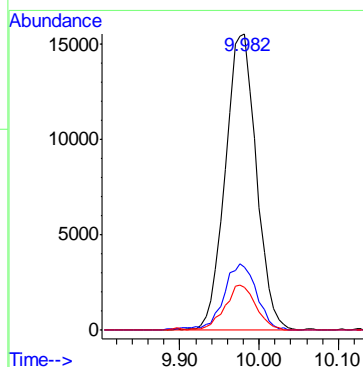
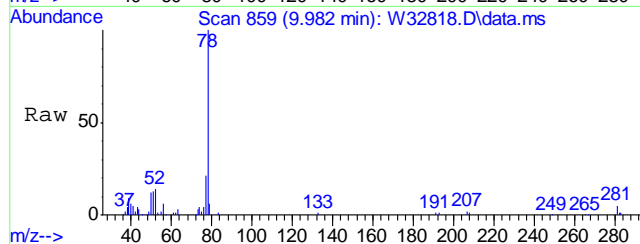
Tgt Ion: 78 Resp: 41951

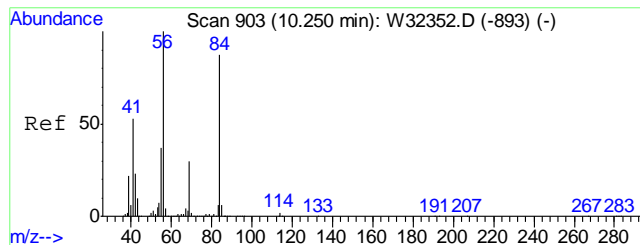
Ion Ratio Lower Upper

78 100

77 23.6 4.7 44.7

52 15.2 0.0 35.9





#52

CYCLOHEXANE

Concen: 0.24 PPBV

RT: 10.220 min Scan# 898

Delta R.T. -0.031 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

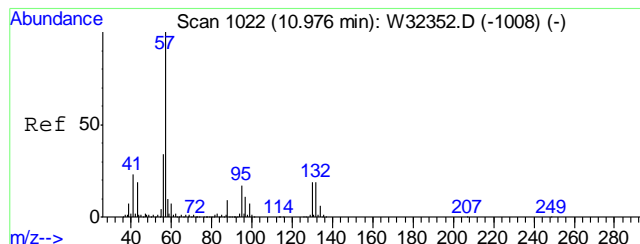
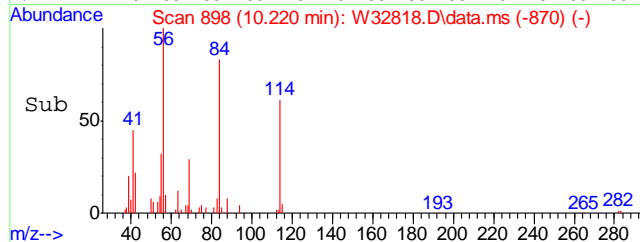
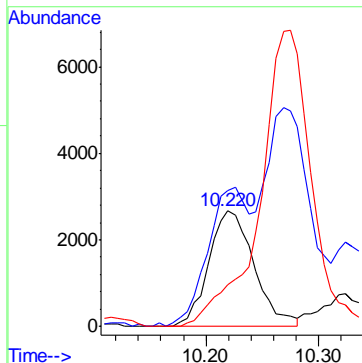
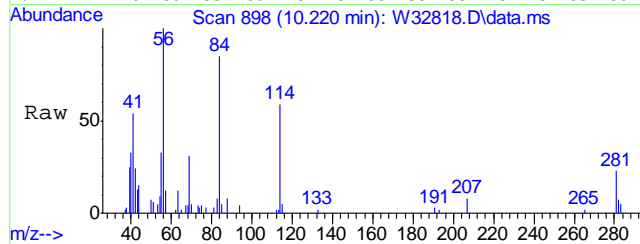
Tgt Ion: 84 Resp: 7450

Ion Ratio Lower Upper

84 100

56 105.9 102.7 142.7

69 0.0 20.8 60.8#



#59

2,2,4-TRIMETHYLPENTANE

Concen: 0.42 PPBV

RT: 10.945 min Scan# 1017

Delta R.T. -0.031 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

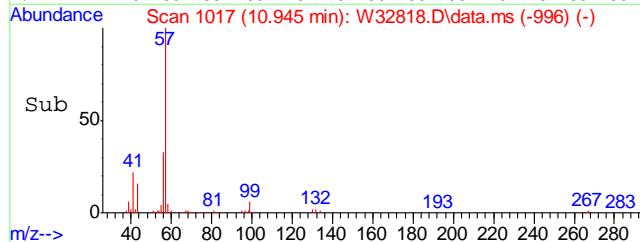
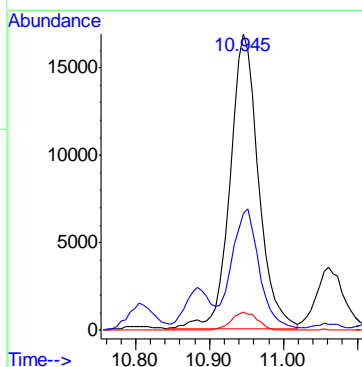
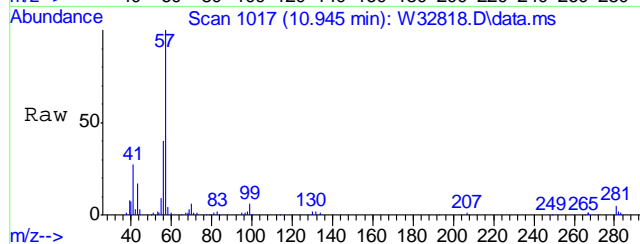
Tgt Ion: 57 Resp: 44677

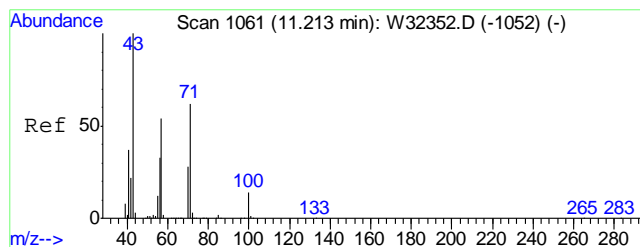
Ion Ratio Lower Upper

57 100

56 38.9 13.5 53.5

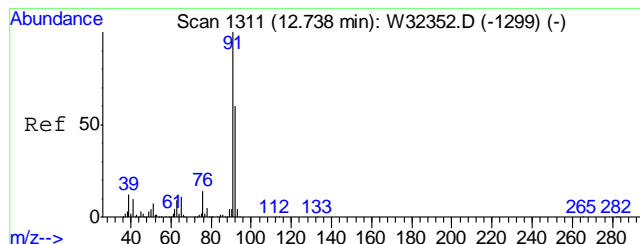
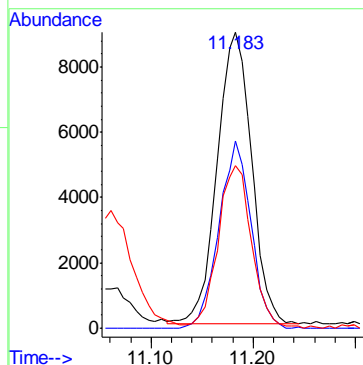
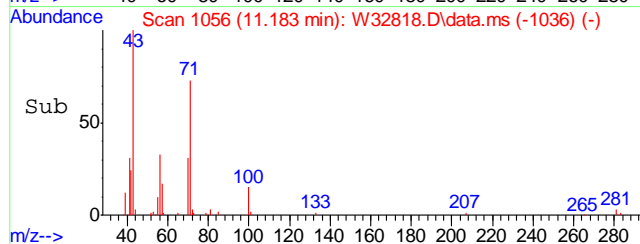
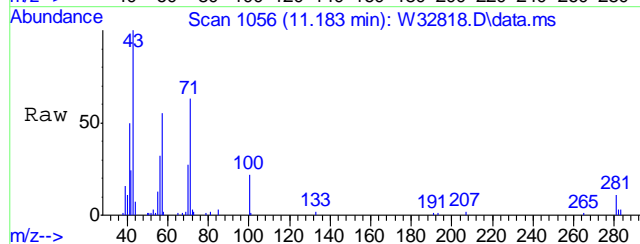
99 5.6 0.0 27.7





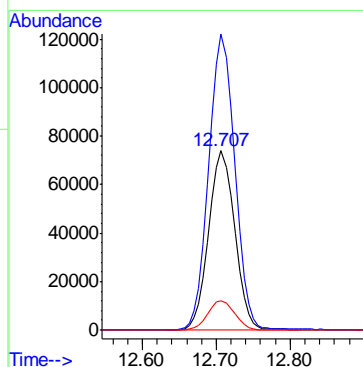
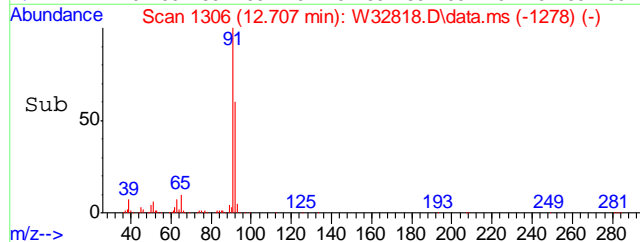
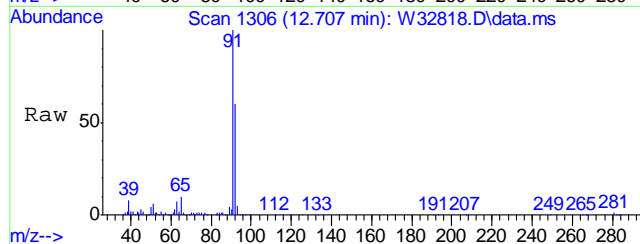
#62
HEPTANE
Concen: 0.52 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

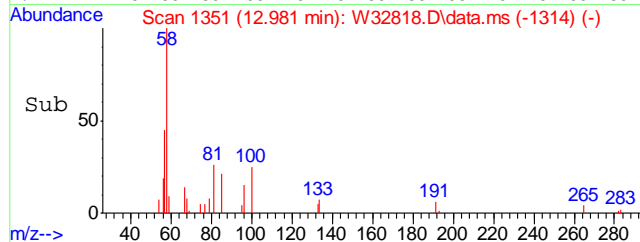
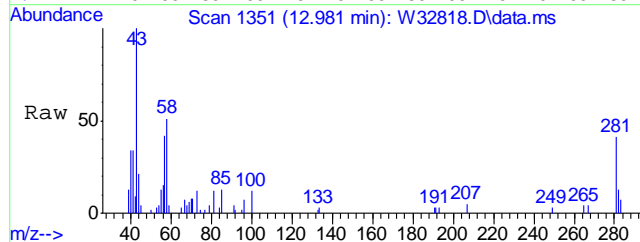
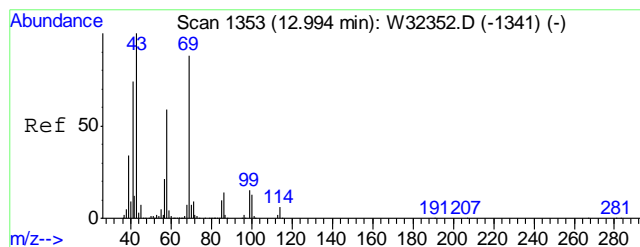
Tgt Ion	Ratio	Lower	Upper
43	100		
71	59.7	41.6	81.6
57	54.7	34.6	74.6



#66
TOLUENE
Concen: 4.24 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.031 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

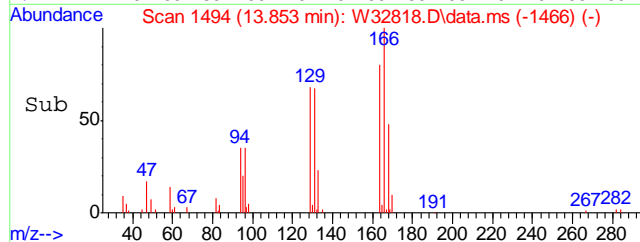
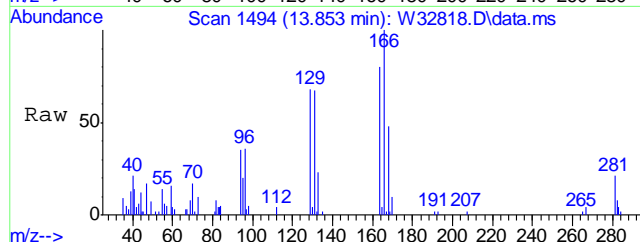
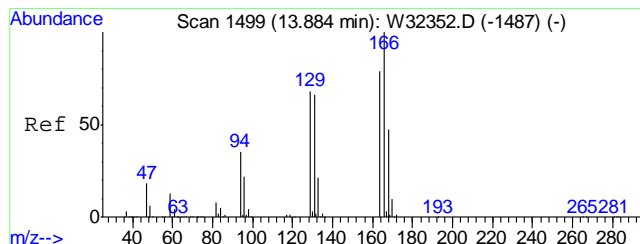
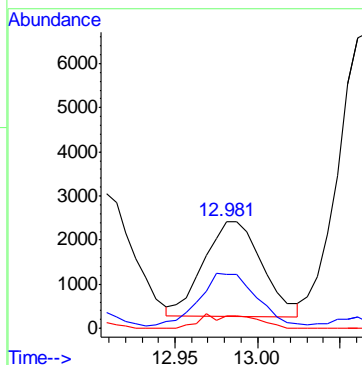
Tgt Ion	Ratio	Lower	Upper
92	100		
91	165.0	146.2	186.2
65	17.0	0.4	40.4





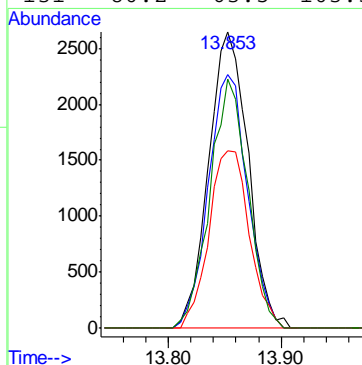
#71
2-HEXANONE
Concen: 0.15 PPBV
RT: 12.981 min Scan# 1351
Delta R.T. -0.012 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

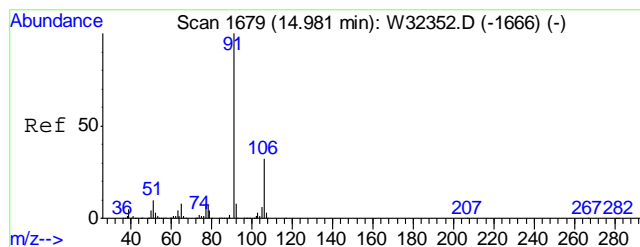
Tgt Ion: 43 Resp: 5302
Ion Ratio Lower Upper
43 100
58 59.6 39.4 79.4
100 13.2 0.0 33.6



#72
TETRACHLOROETHYLENE
Concen: 0.27 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.031 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

Tgt Ion: 164 Resp: 6408
Ion Ratio Lower Upper
164 100
129 85.1 66.3 106.3
168 61.4 41.0 81.0
131 80.2 63.5 103.5





#78

ETHYLBENZENE

Concen: 1.04 PPBV

RT: 14.950 min Scan# 1674

Delta R.T. -0.031 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

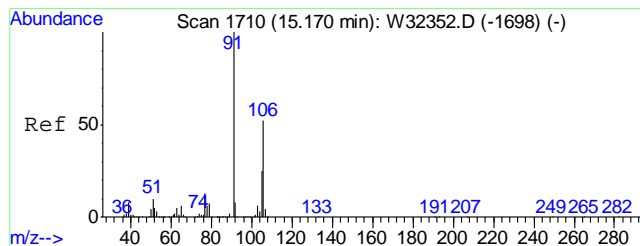
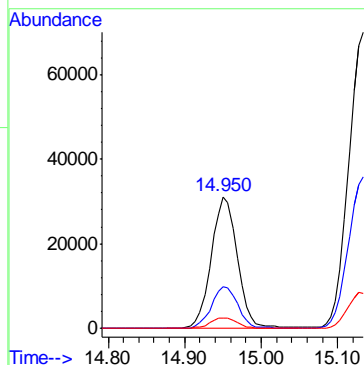
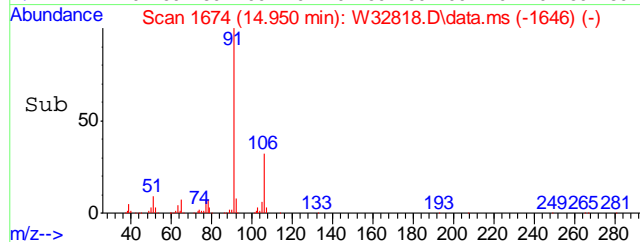
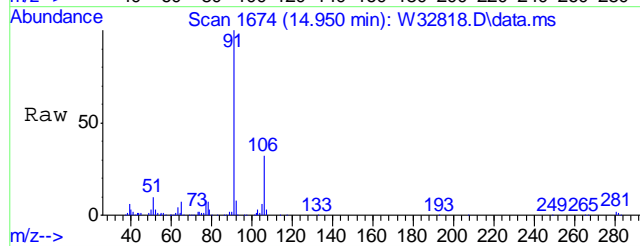
Tgt Ion: 91 Resp: 73761

Ion Ratio Lower Upper

91 100

106 32.1 11.7 51.7

77 8.3 0.0 28.1



#79

m,p-XYLENE

Concen: 3.86 PPBV

RT: 15.133 min Scan# 1704

Delta R.T. -0.037 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

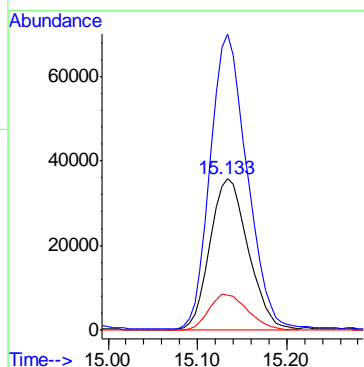
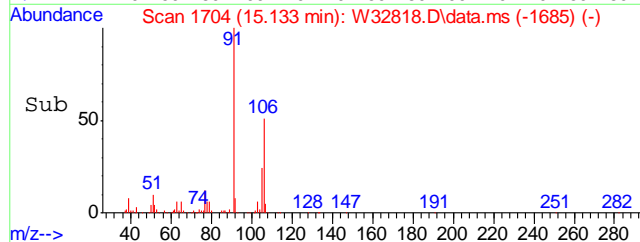
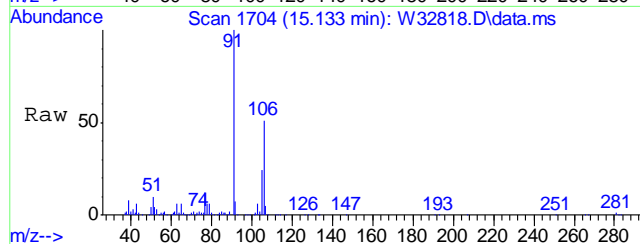
Tgt Ion: 106 Resp: 106567

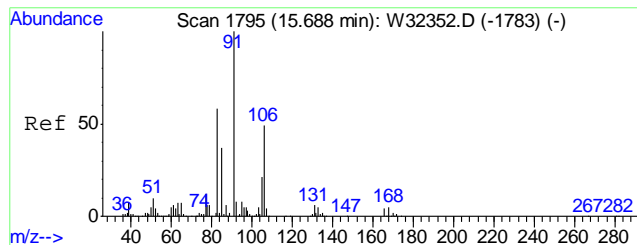
Ion Ratio Lower Upper

106 100

91 195.8 152.6 228.8

77 23.2 19.9 29.9





#80

o-XYLENE

Concen: 1.70 PPBV

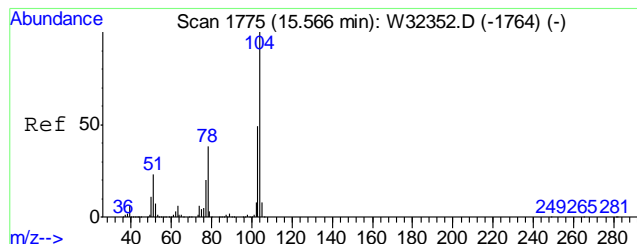
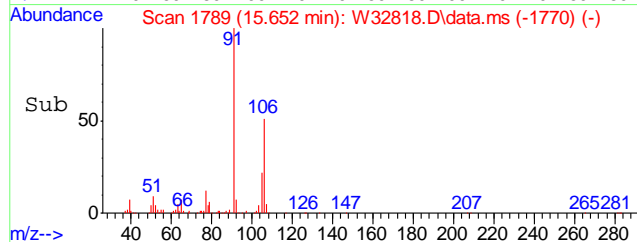
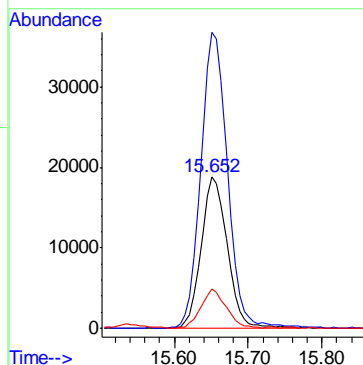
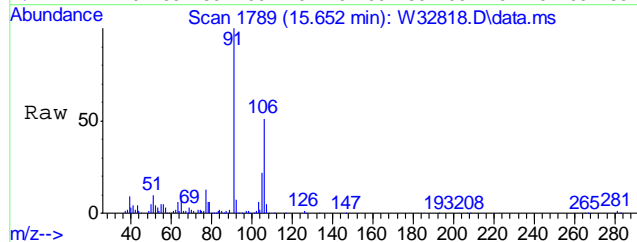
RT: 15.652 min Scan# 1789

Delta R.T. -0.037 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

Tgt Ion:	106	Resp:	45230
Ion Ratio	Lower	Upper	
106	100		
91	200.6	182.1	222.1
77	25.0	4.0	44.0



#81

STYRENE

Concen: 0.13 PPBV

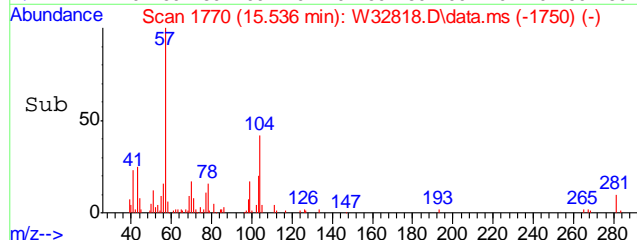
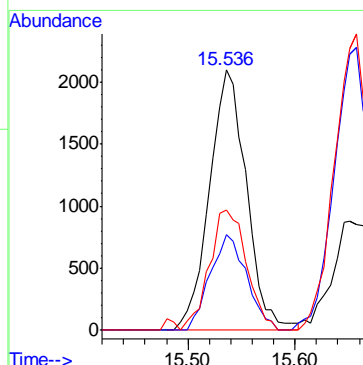
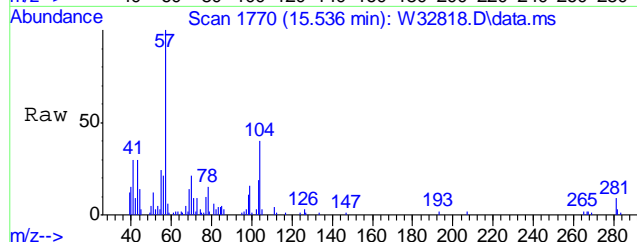
RT: 15.536 min Scan# 1770

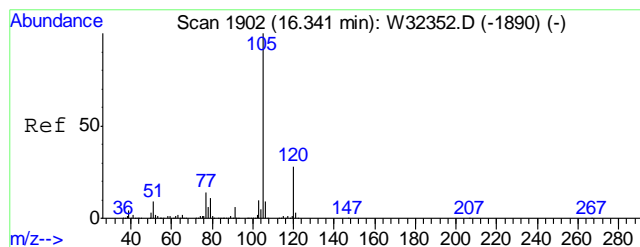
Delta R.T. -0.031 min

Lab File: W32818.D

Acq: 20 Jul 2011 9:37 pm

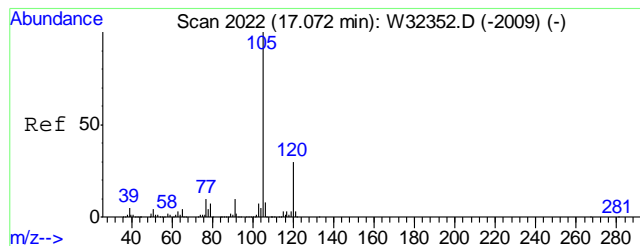
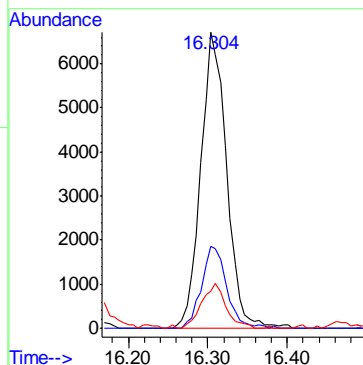
Tgt Ion:	104	Resp:	5023
Ion Ratio	Lower	Upper	
104	100		
78	36.2	18.2	58.2
103	46.4	28.2	68.2





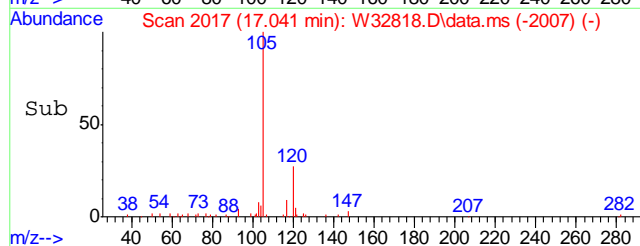
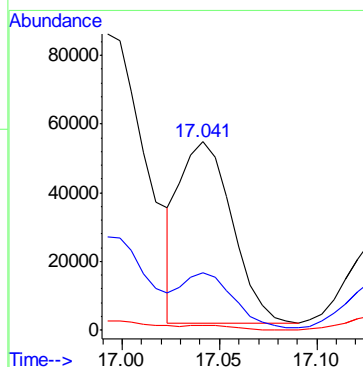
#87
ISOPROPYLBENZENE
Concen: 0.20 PPBV
RT: 16.304 min Scan# 1896
Delta R.T. -0.037 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

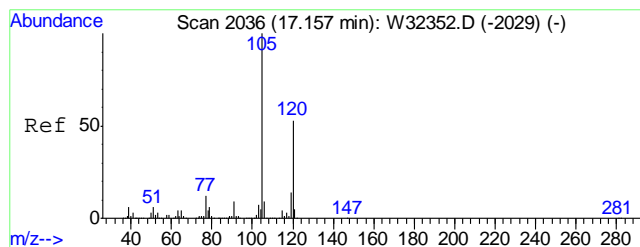
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	6.9	46.9
77	14.1	0.0	33.9



#91
4-ETHYLTOLUENE
Concen: 1.58 PPBV
RT: 17.041 min Scan# 2017
Delta R.T. -0.031 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

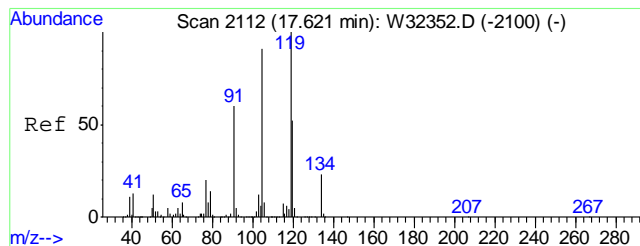
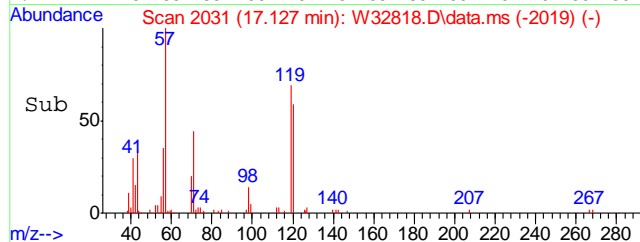
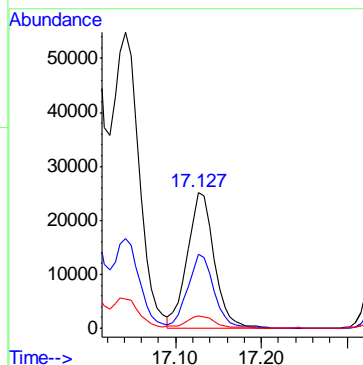
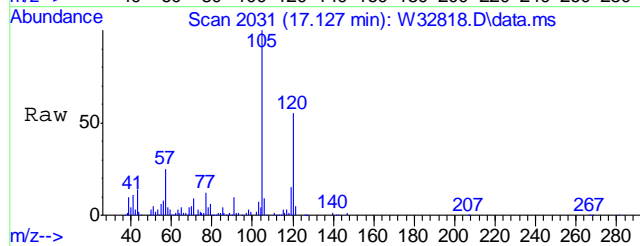
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.3	9.8	49.8
119	2.3	0.0	22.9





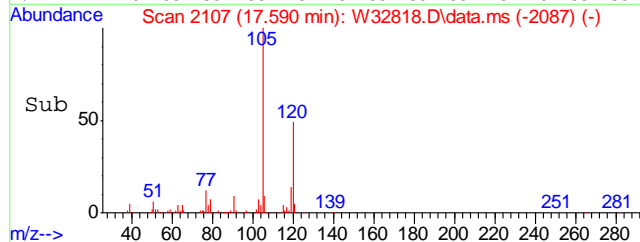
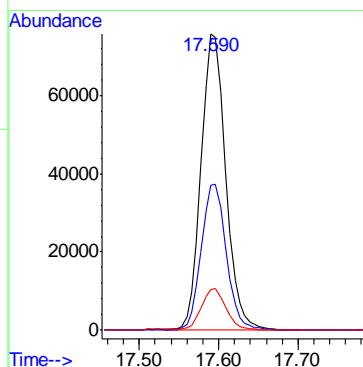
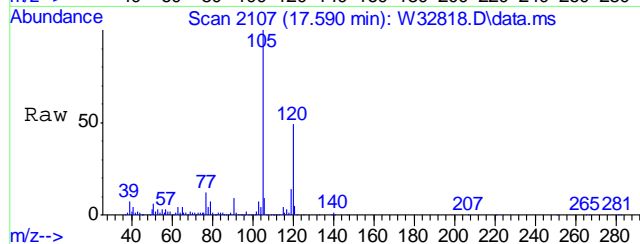
#92
1,3,5-TRIMETHYLBENZENE
Concen: 1.07 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.031 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

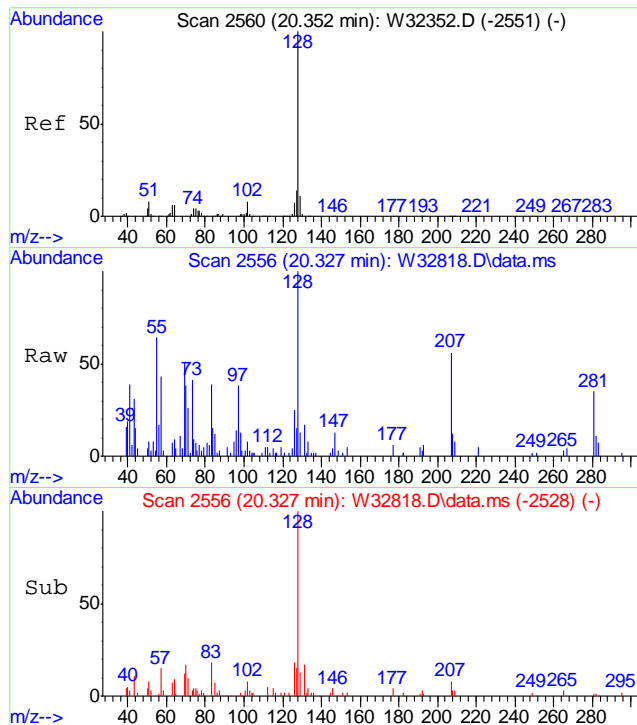
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.4	32.9	72.9
91	9.5	0.0	29.3



#95
1,2,4-TRIMETHYLBENZENE
Concen: 3.45 PPBV
RT: 17.590 min Scan# 2107
Delta R.T. -0.031 min
Lab File: W32818.D
Acq: 20 Jul 2011 9:37 pm

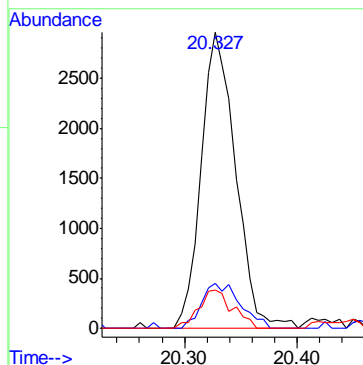
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.2	39.3	79.3
119	14.1	101.1	141.1#





#107
 NAPHTHALENE
 Concen: 0.59 PPBV
 RT: 20.327 min Scan# 2556
 Delta R.T. -0.025 min
 Lab File: W32818.D
 Acq: 20 Jul 2011 9:37 pm

Tgt Ion:128	Resp:	6277
Ion Ratio	Lower	Upper
128	100	
127	17.0	0.0 34.3
129	12.8	0.0 30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32810.D
Acq On : 20 Jul 2011 4:09 pm
Operator : YOUMINH
Sample : JA81330-4
Misc : MS15514,VW1341,400,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 00:24:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration

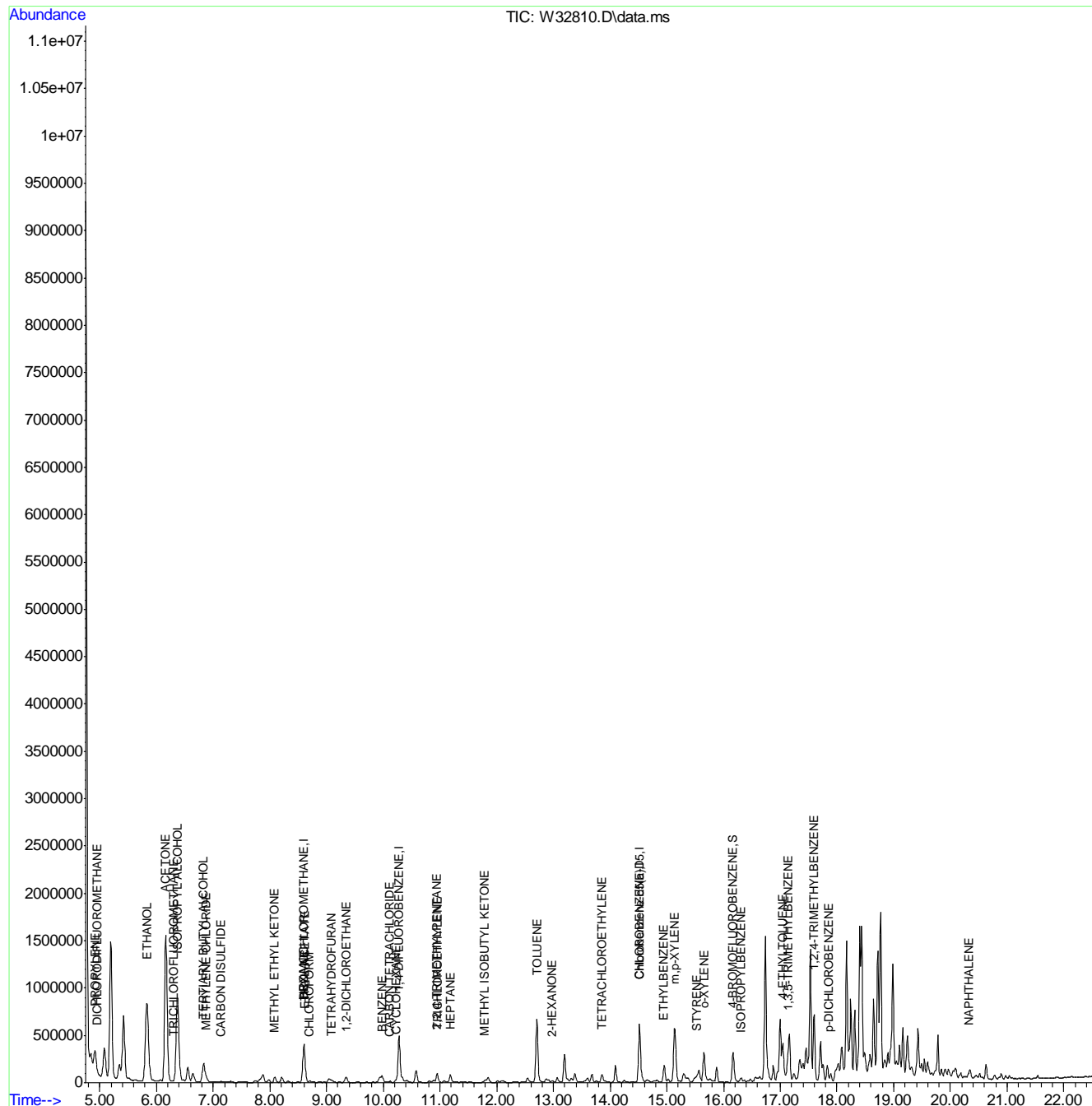
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.598	128	129595	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	621770	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	263181	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	261224	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	148666	5.23	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	104.60%
Target Compounds						
					Qvalue	
5) DICHLORODIFLUOROMETHANE	4.959	85	17697	0.46	PPBV	97
6) PROPYLENE	4.916	41	169507	10.46	PPBV	81
18) TRICHLOROFLUOROMETHANE	6.300	101	9662	0.27	PPBV	97
19) ISOPROPYL ALCOHOL	6.367	45	2035558	64.45	PPBV	99
20) ACETONE	6.160	58	970460	117.05	PPBV	# 86
26) CARBON DISULFIDE	7.141	76	15522	0.39	PPBV	92
27) ETHANOL	5.830	45	1928765	232.56	PPBV	99
30) METHYLENE CHLORIDE	6.867	84	5257	0.34	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.830	59	355121	9.71	PPBV	89
36) TETRAHYDROFURAN	9.080	72	7005	0.92	PPBV	# 1
37) HEXANE	8.604	57	50923	1.80	PPBV	# 83
40) METHYL ETHYL KETONE	8.086	72	29911	3.85	PPBV	# 57
43) ETHYL ACETATE	8.616	61	27061	5.38	PPBV	# 1
45) CHLOROFORM	8.702	83	11050	0.37	PPBV	95
48) CARBON TETRACHLORIDE	10.110	117	10108	0.33	PPBV	99
49) 1,2-DICHLOROETHANE	9.342	62	11695	0.67	PPBV	98
51) BENZENE	9.982	78	81726	1.72	PPBV	98
52) CYCLOHEXANE	10.226	84	17155	0.72	PPBV	82
54) TRICHLOROETHYLENE	10.951	95	1626	0.09	PPBV	89
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	99890	1.22	PPBV	94
62) HEPTANE	11.183	43	43450	1.42	PPBV	92
64) METHYL ISOBUTYL KETONE	11.793	43	22558	0.69	PPBV	98
66) TOLUENE	12.707	92	425960	13.39	PPBV	98
71) 2-HEXANONE	12.975	43	8152	0.31	PPBV	85
72) TETRACHLOROETHYLENE	13.853	164	29759	1.70	PPBV	93
78) ETHYLBENZENE	14.951	91	198154	3.79	PPBV	98
79) m,p-XYLENE	15.133	106	308792	15.22	PPBV	91
80) o-XYLENE	15.658	106	131087	6.69	PPBV	92
81) STYRENE	15.536	104	24978	0.90	PPBV	95
87) ISOPROPYLBENZENE	16.310	105	41712	0.76	PPBV	98
91) 4-ETHYLTOLUENE	17.042	105	304423	6.64	PPBV	97
92) 1,3,5-TRIMETHYLBENZENE	17.133	105	158310	4.17	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	499038	14.36	PPBV	# 33
98) p-DICHLOROBENZENE	17.852	146	2810	0.14	PPBV	82
107) NAPHTHALENE	20.334	128	26895	3.44	PPBV	91

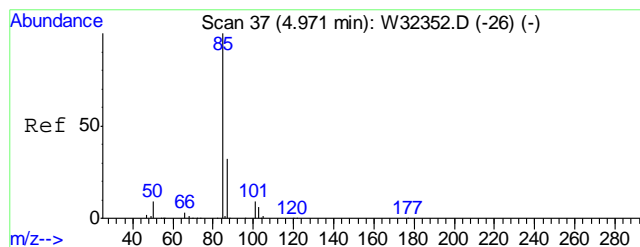
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32810.D
Acq On : 20 Jul 2011 4:09 pm
Operator : YOUMINH
Sample : JA81330-4
Misc : MS15514,VW1341,400,,,1
ALS Vial : 12 Sample Multiplier: 1

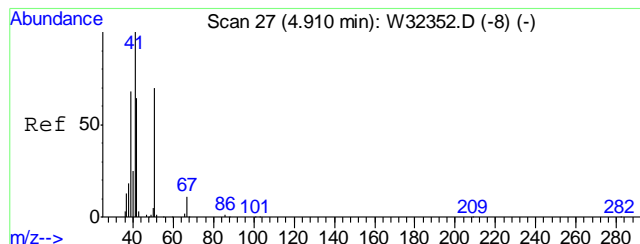
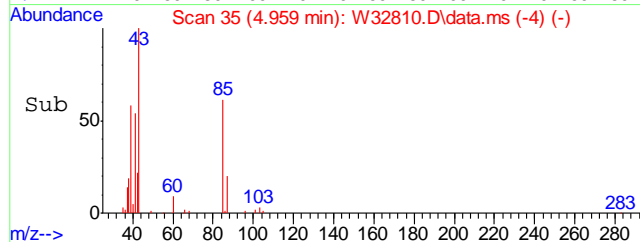
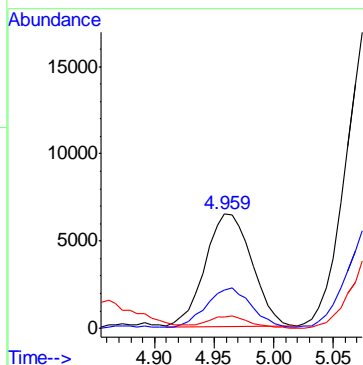
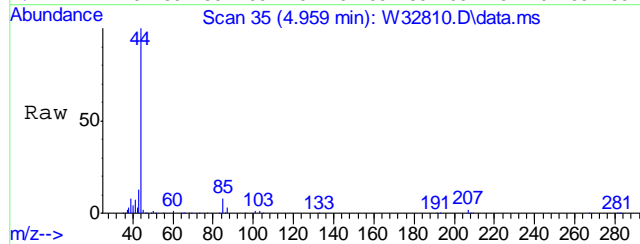
Quant Time: Aug 17 00:24:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





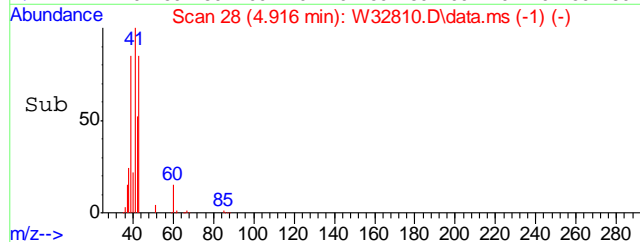
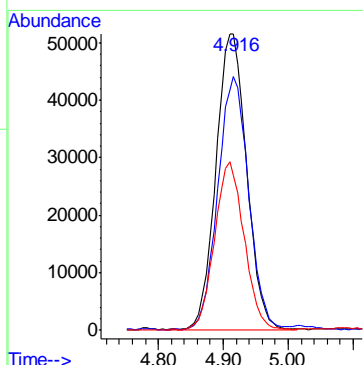
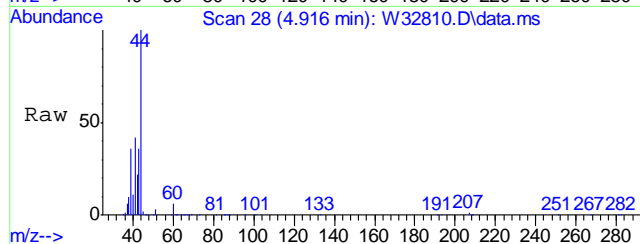
#5
DICHLORODIFLUOROMETHANE
Concen: 0.46 PPBV
RT: 4.959 min Scan# 35
Delta R.T. -0.012 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

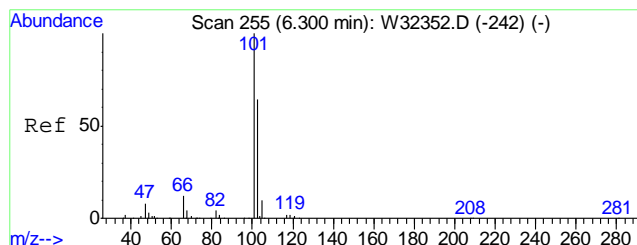
Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.2	12.0	52.0
50	10.2	0.0	30.7



#6
PROPYLENE
Concen: 10.46 PPBV
RT: 4.916 min Scan# 28
Delta R.T. 0.006 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

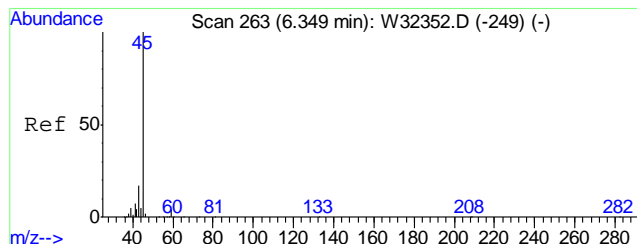
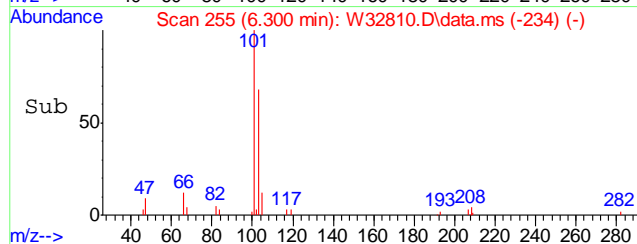
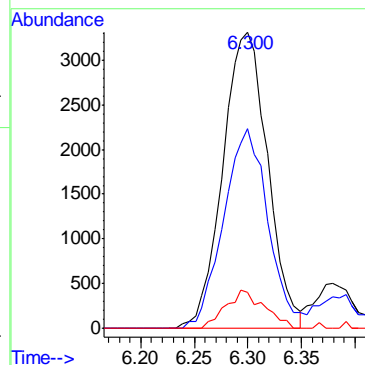
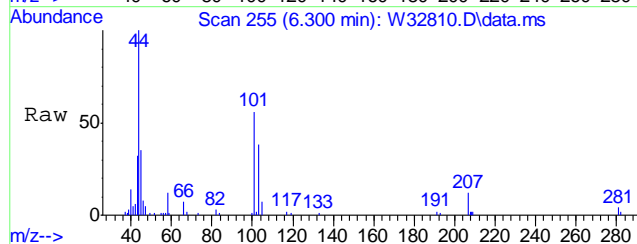
Tgt Ion	Ratio	Lower	Upper
41	100		
39	85.5	47.7	87.7
42	52.2	43.7	83.7





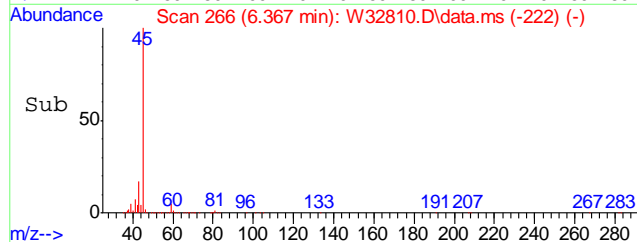
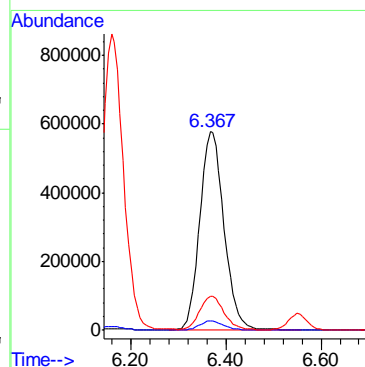
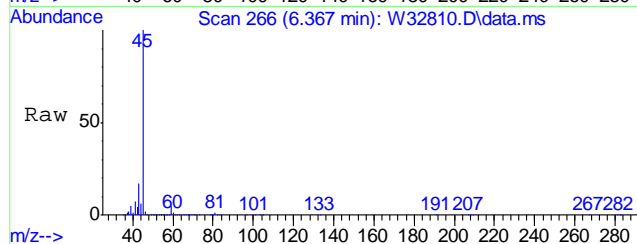
#18
TRICHLOROFLUOROMETHANE
Concen: 0.27 PPBV
RT: 6.300 min Scan# 255
Delta R.T. 0.000 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

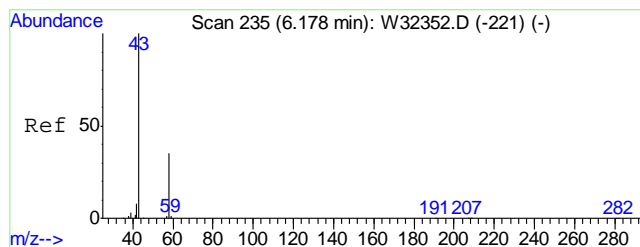
Tgt Ion:	101	Resp:	9662
Ion Ratio	Lower	Upper	
101	100		
103	67.0	44.9	84.9
105	11.1	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 64.45 PPBV
RT: 6.367 min Scan# 266
Delta R.T. 0.018 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

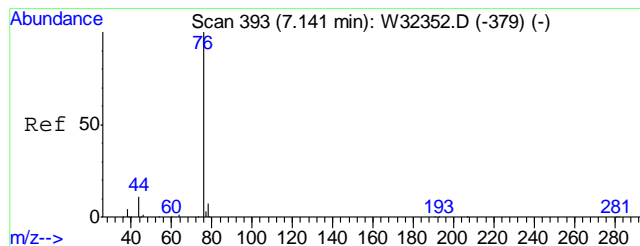
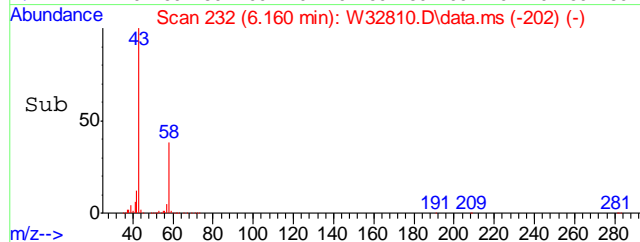
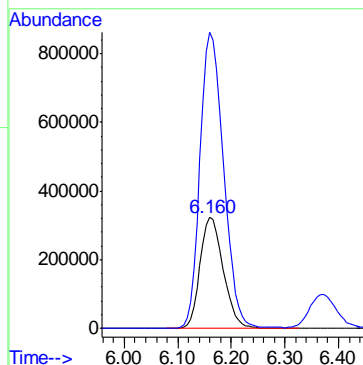
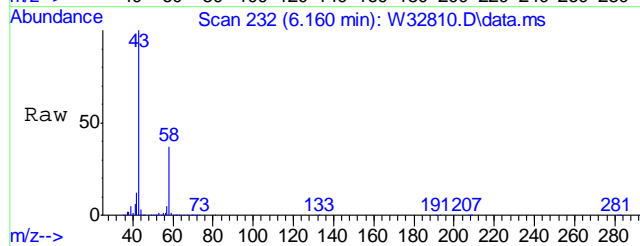
Tgt Ion:	45	Resp:	2035558
Ion Ratio	Lower	Upper	
45	100		
59	4.6	0.0	24.3
43	17.0	0.0	37.5





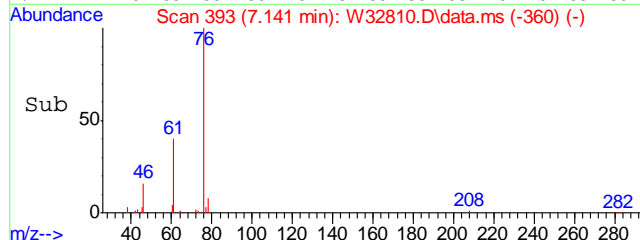
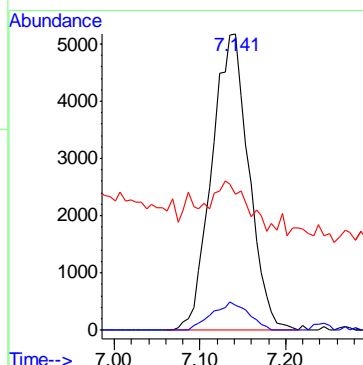
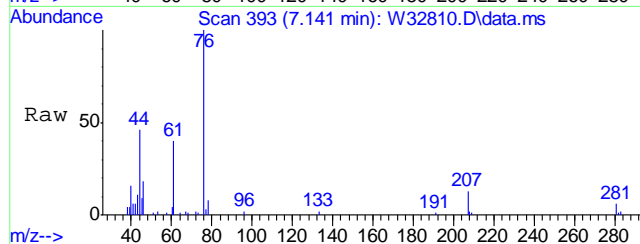
#20
 ACETONE
 Concen: 117.05 PPBV
 RT: 6.160 min Scan# 232
 Delta R.T. -0.018 min
 Lab File: W32810.D
 Acq: 20 Jul 2011 4:09 pm

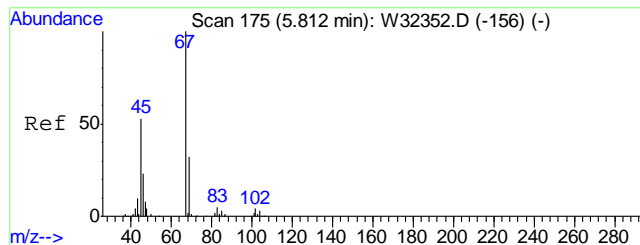
Tgt Ion: 58 Resp: 970460
 Ion Ratio Lower Upper
 58 100
 43 270.3 277.6 317.6#



#26
 CARBON DISULFIDE
 Concen: 0.39 PPBV
 RT: 7.141 min Scan# 393
 Delta R.T. 0.000 min
 Lab File: W32810.D
 Acq: 20 Jul 2011 4:09 pm

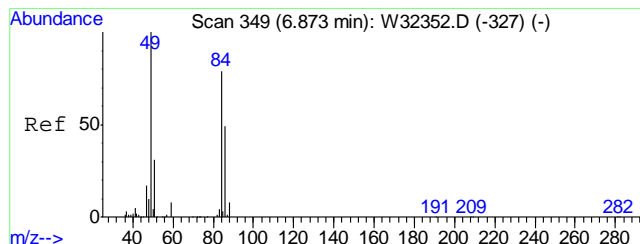
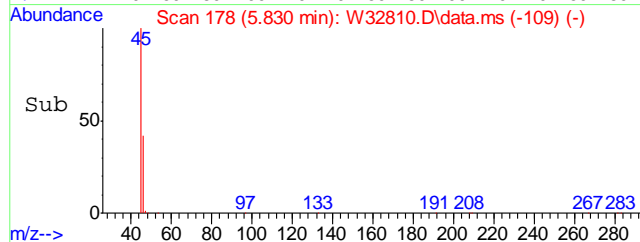
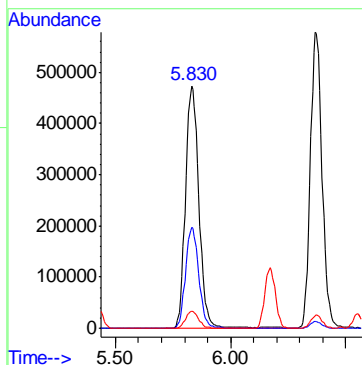
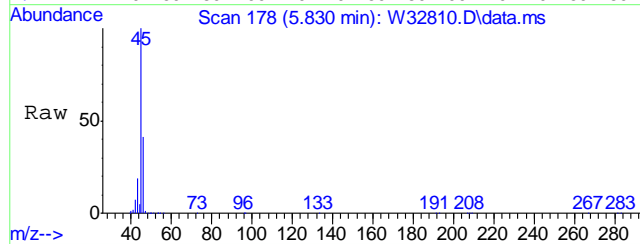
Tgt Ion: 76 Resp: 15522
 Ion Ratio Lower Upper
 76 100
 78 9.3 0.0 28.9
 44 16.0 0.0 31.0





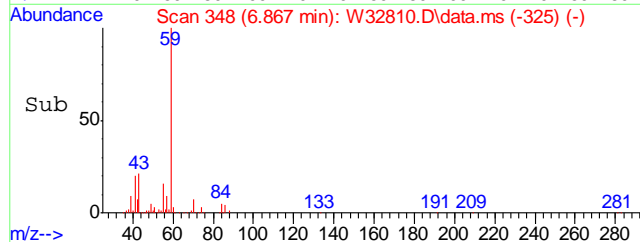
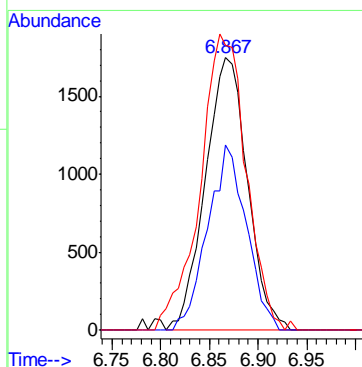
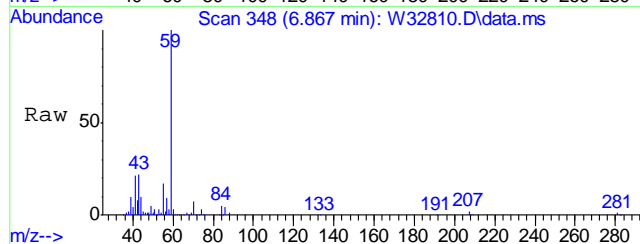
#27
ETHANOL
Concen: 232.56 PPBV
RT: 5.830 min Scan# 178
Delta R.T. 0.018 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

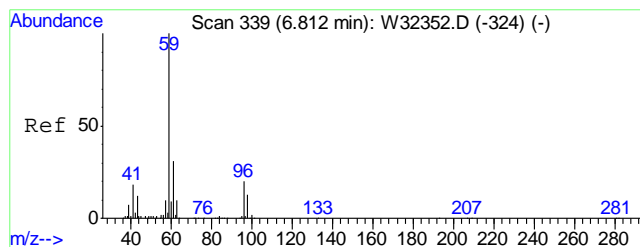
Tgt Ion: 45 Resp: 1928765
Ion Ratio Lower Upper
45 100
46 41.1 20.6 60.6
42 7.0 0.0 28.7



#30
METHYLENE CHLORIDE
Concen: 0.34 PPBV
RT: 6.867 min Scan# 348
Delta R.T. -0.006 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

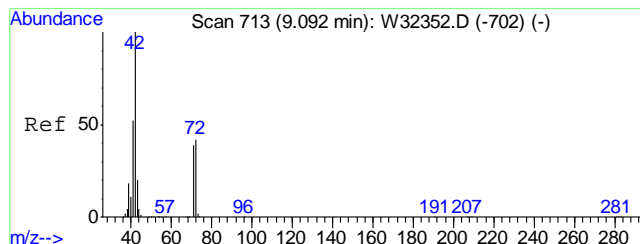
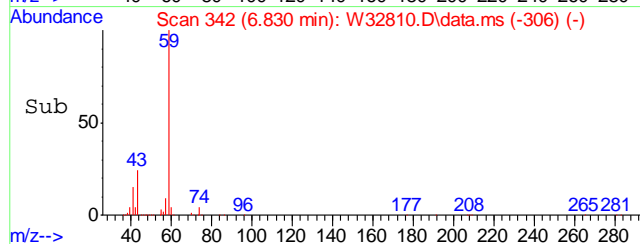
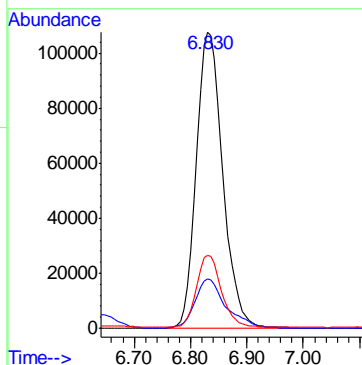
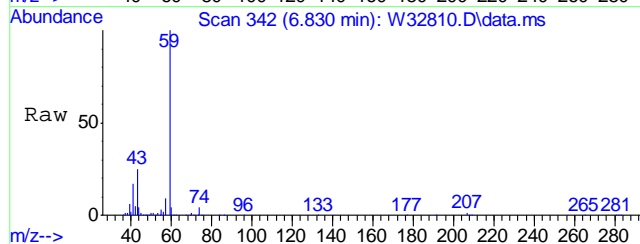
Tgt Ion: 84 Resp: 5257
Ion Ratio Lower Upper
84 100
86 62.1 42.9 82.9
49 118.0 0.0 324.2





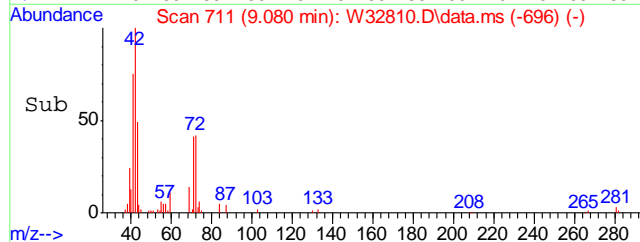
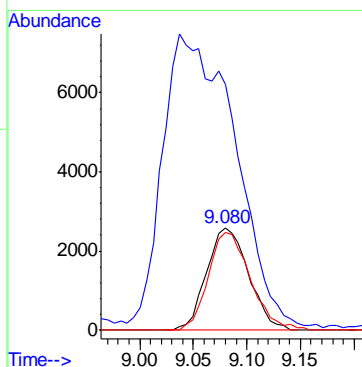
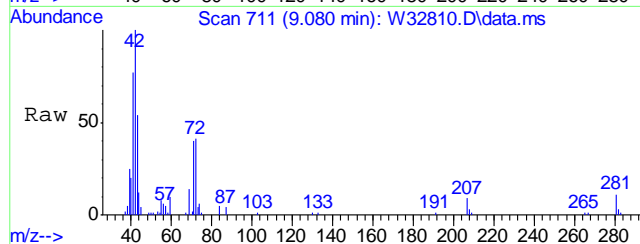
#34
TERTIARY BUTYL ALCOHOL
Concen: 9.71 PPBV
RT: 6.830 min Scan# 342
Delta R.T. 0.018 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

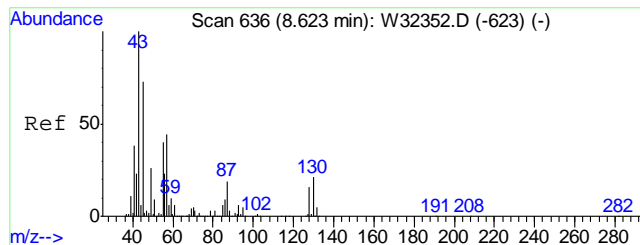
Tgt Ion	Ratio	Lower	Upper
59	100		
41	19.3	0.0	39.2
43	22.7	0.0	32.1



#36
TETRAHYDROFURAN
Concen: 0.92 PPBV
RT: 9.080 min Scan# 711
Delta R.T. -0.012 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

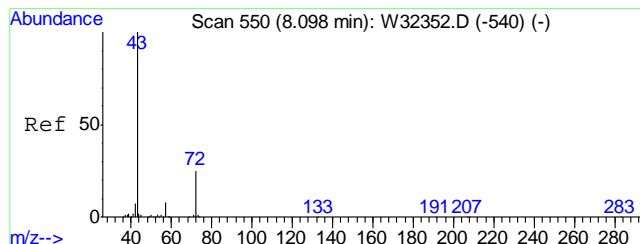
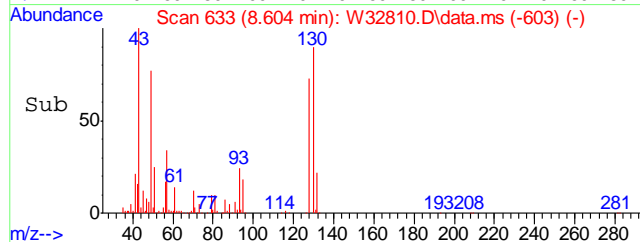
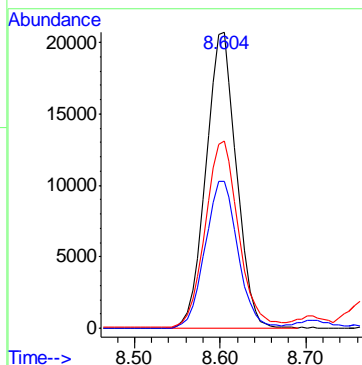
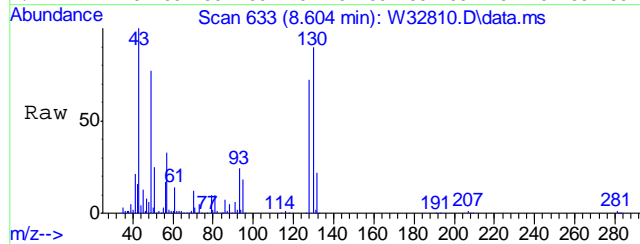
Tgt Ion	Ratio	Lower	Upper
72	100		
42	0.0	220.0	260.0#
71	95.9	74.2	114.2





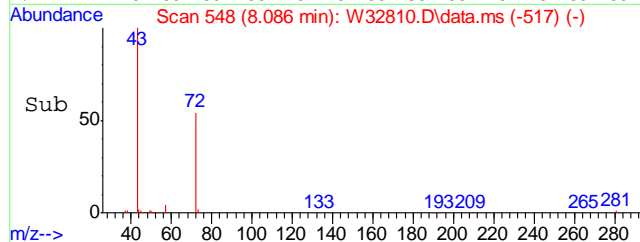
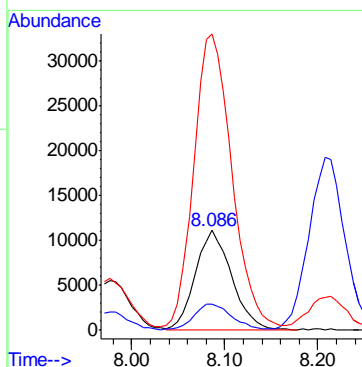
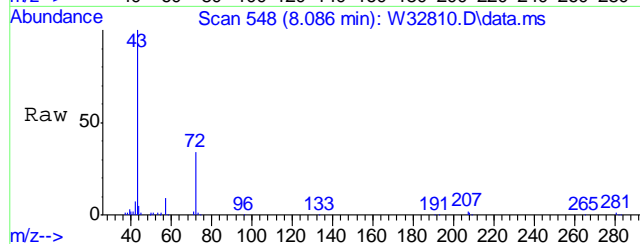
#37
HEXANE
Concen: 1.80 PPBV
RT: 8.604 min Scan# 633
Delta R.T. -0.018 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

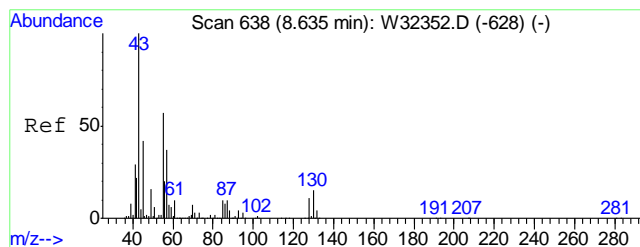
Tgt Ion	Ratio	Lower	Upper
57	100		
56	53.7	33.7	73.7
41	69.0	74.5	114.5#



#40
METHYL ETHYL KETONE
Concen: 3.85 PPBV
RT: 8.086 min Scan# 548
Delta R.T. -0.012 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

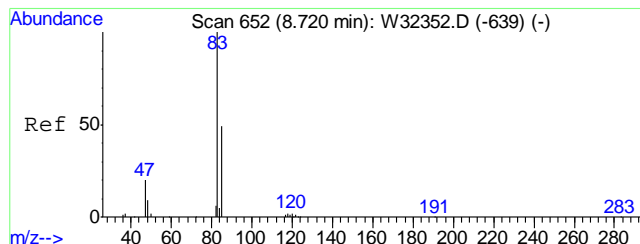
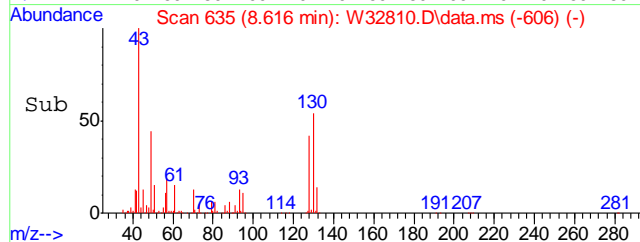
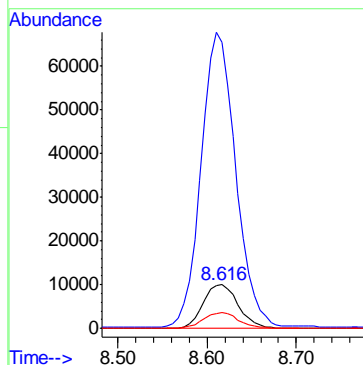
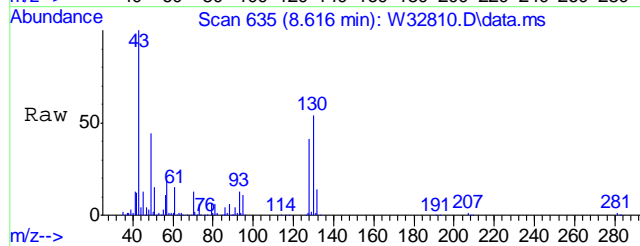
Tgt Ion	Ratio	Lower	Upper
72	100		
57	25.7	11.1	51.1
43	297.5	386.1	426.1#





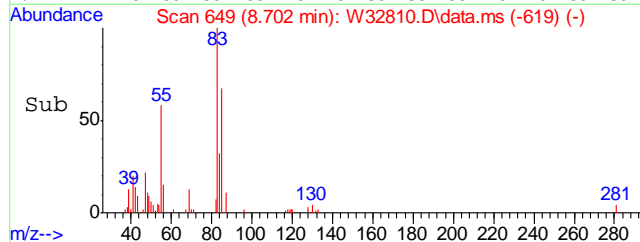
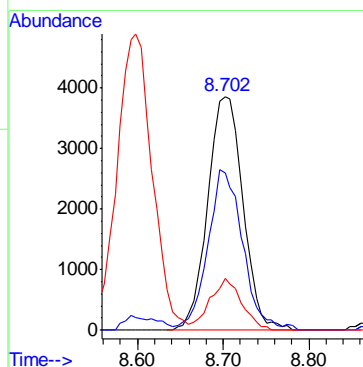
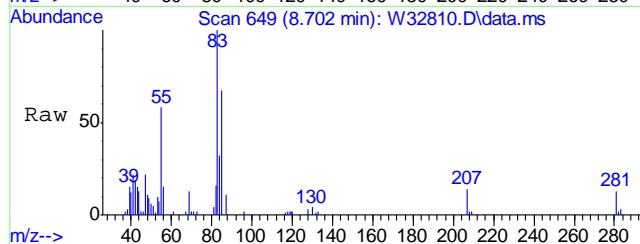
#43
ETHYL ACETATE
Concen: 5.38 PPBV
RT: 8.616 min Scan# 635
Delta R.T. -0.018 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

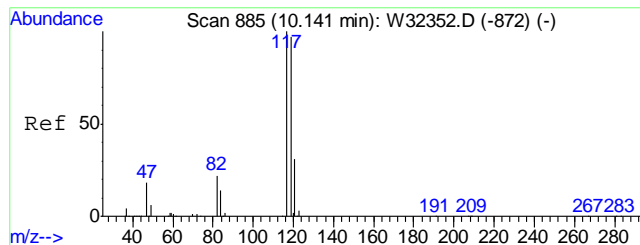
Tgt Ion	Ratio	Lower	Upper
61	100		
43	674.5	1488.2	1528.2#
88	36.7	27.8	67.8



#45
CHLOROFORM
Concen: 0.37 PPBV
RT: 8.702 min Scan# 649
Delta R.T. -0.018 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

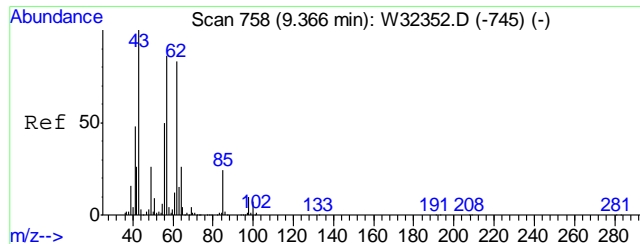
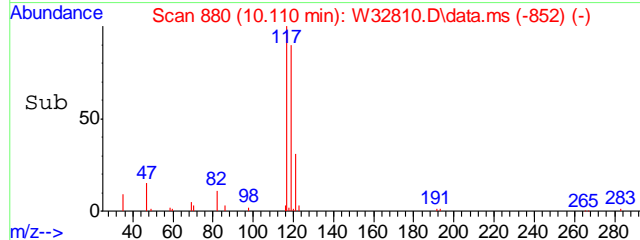
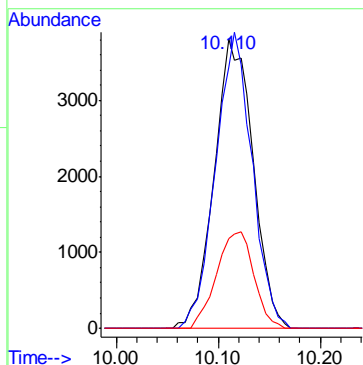
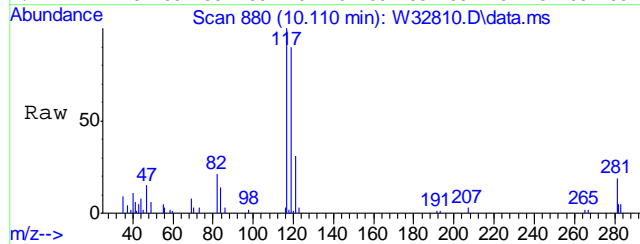
Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.8	44.6	84.6
47	19.8	2.6	42.6





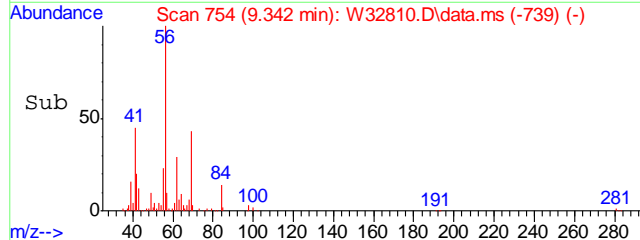
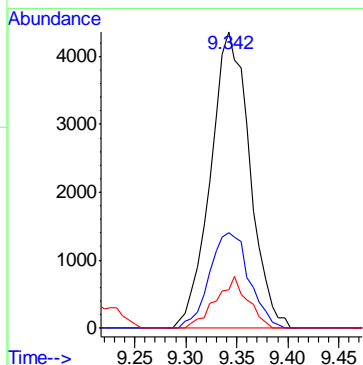
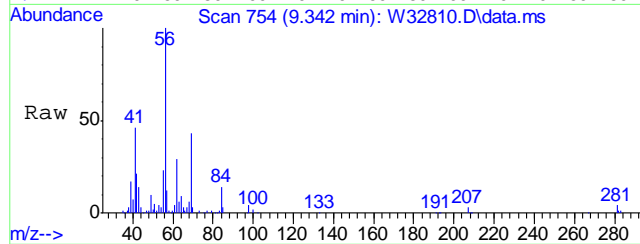
#48
 CARBON TETRACHLORIDE
 Concen: 0.33 PPBV
 RT: 10.110 min Scan# 880
 Delta R.T. -0.030 min
 Lab File: W32810.D
 Acq: 20 Jul 2011 4:09 pm

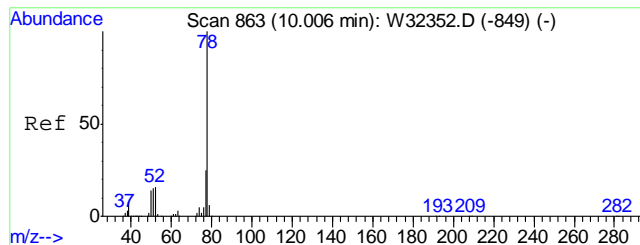
Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.5	116.5
121	32.1	10.8	50.8



#49
 1,2-DICHLOROETHANE
 Concen: 0.67 PPBV
 RT: 9.342 min Scan# 754
 Delta R.T. -0.024 min
 Lab File: W32810.D
 Acq: 20 Jul 2011 4:09 pm

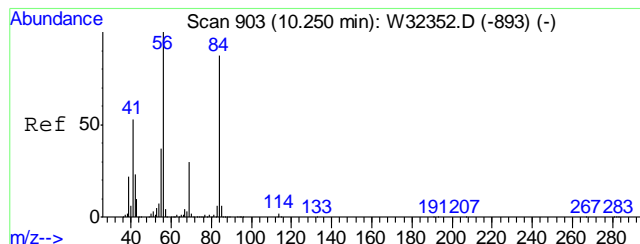
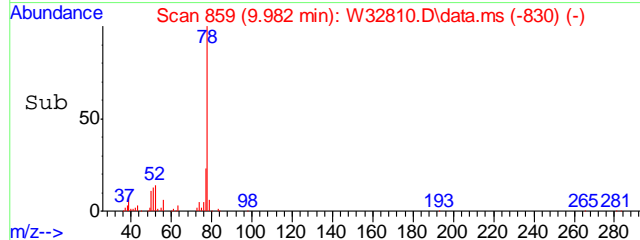
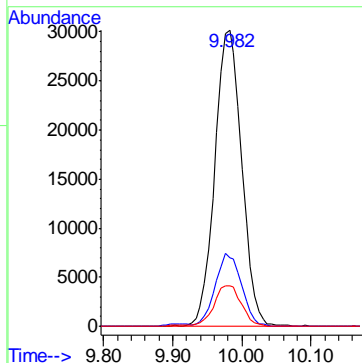
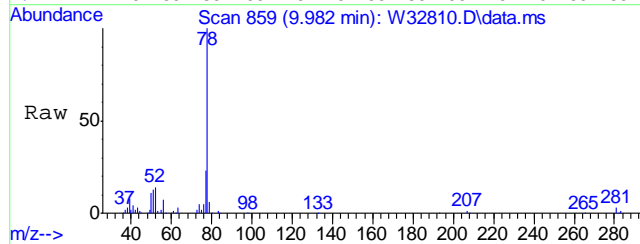
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.6	12.3	52.3
98	14.1	0.0	32.0





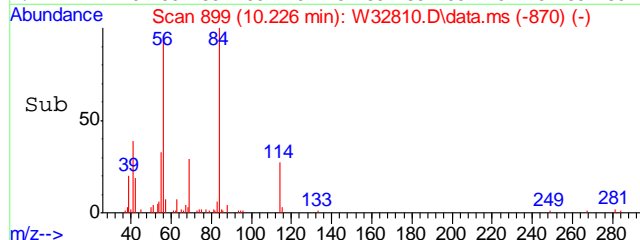
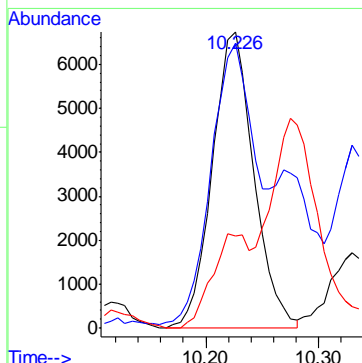
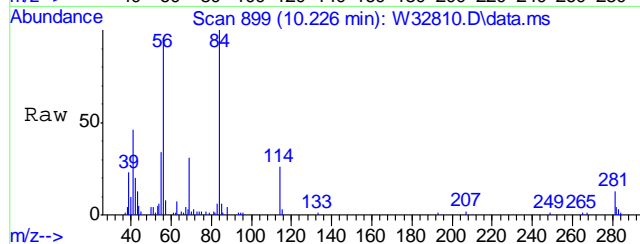
#51
BENZENE
Concen: 1.72 PPBV
RT: 9.982 min Scan# 859
Delta R.T. -0.024 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

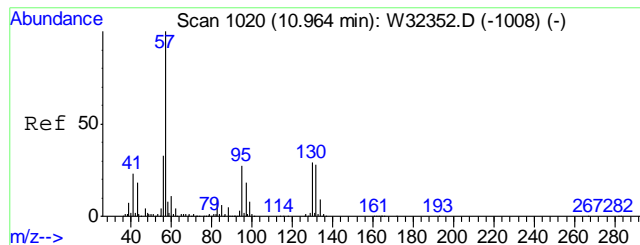
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	4.7	44.7
52	14.2	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.72 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.024 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

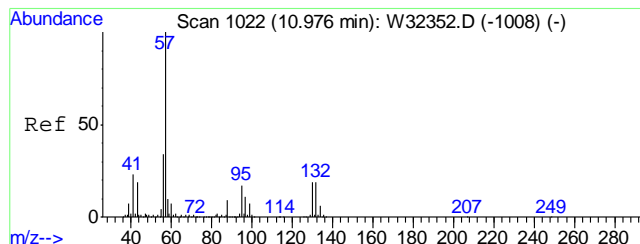
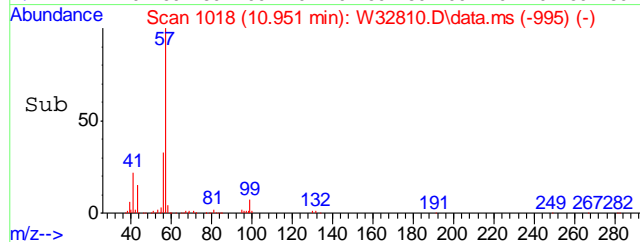
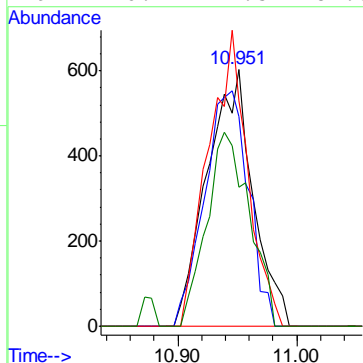
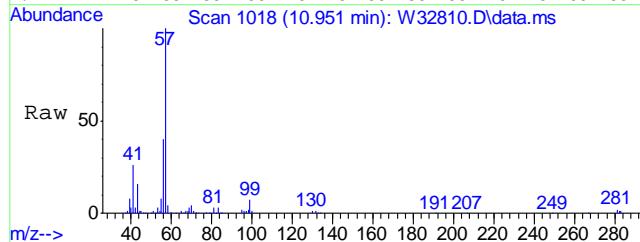
Tgt Ion	Ratio	Lower	Upper
84	100		
56	104.2	102.7	142.7
69	27.9	20.8	60.8





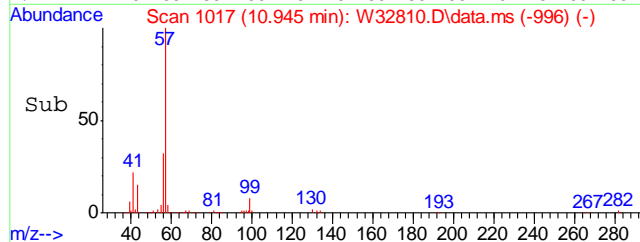
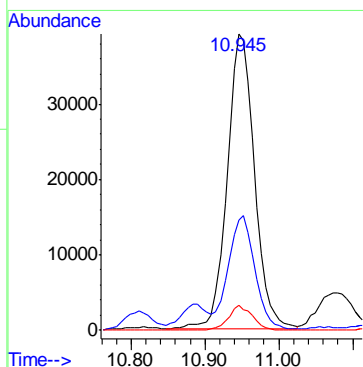
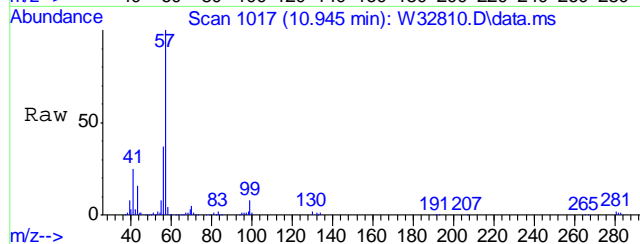
#54
TRICHLOROETHYLENE
Concen: 0.09 PPBV
RT: 10.951 min Scan# 1018
Delta R.T. -0.012 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

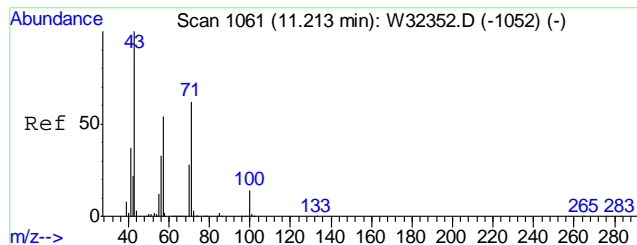
Tgt Ion	Ratio	Lower	Upper
95	100		
132	87.9	84.3	124.3
130	98.6	88.4	128.4
97	70.2	44.5	84.5



#59
2,2,4-TRIMETHYLPENTANE
Concen: 1.22 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.030 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

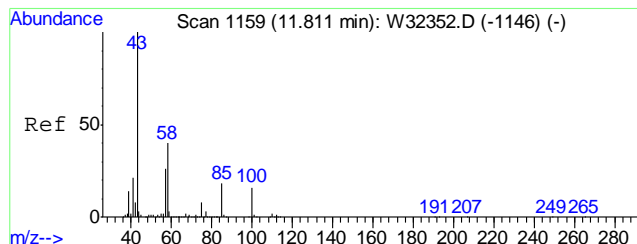
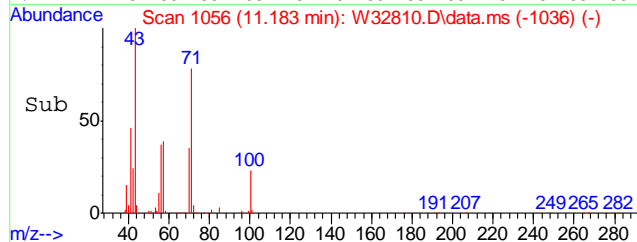
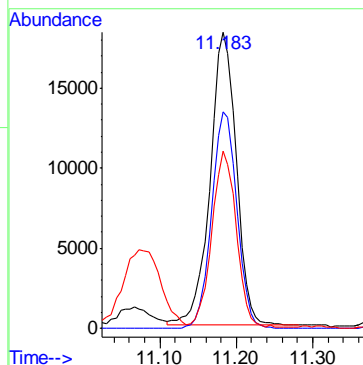
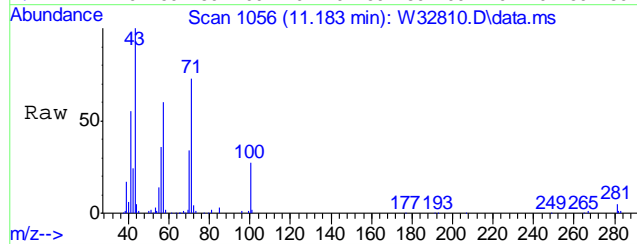
Tgt Ion	Ratio	Lower	Upper
57	100		
56	37.4	13.5	53.5
99	7.4	0.0	27.7





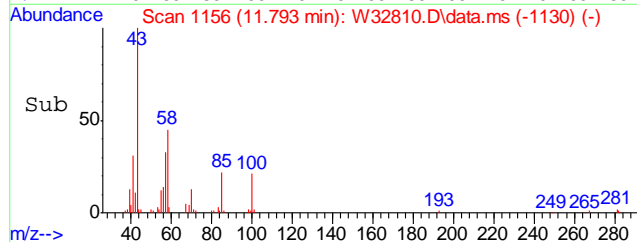
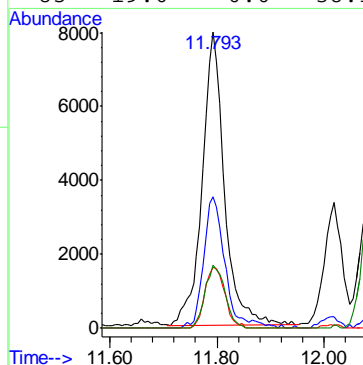
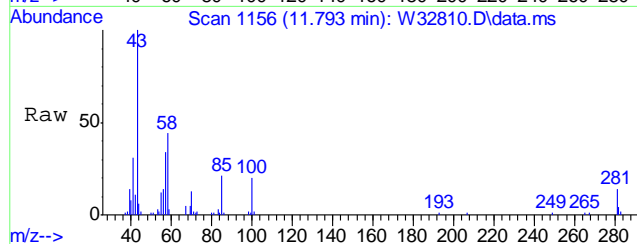
#62
HEPTANE
Concen: 1.42 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.030 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

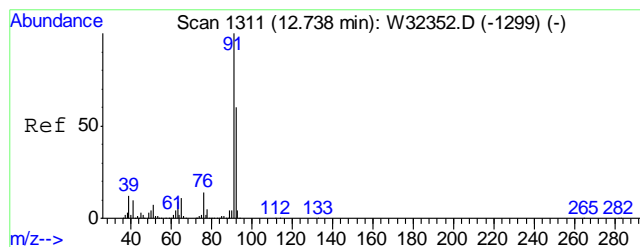
Tgt Ion	Ratio	Lower	Upper
43	100		
71	71.1	41.6	81.6
57	56.3	34.6	74.6



#64
METHYL ISOBUTYL KETONE
Concen: 0.69 PPBV
RT: 11.793 min Scan# 1156
Delta R.T. -0.018 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

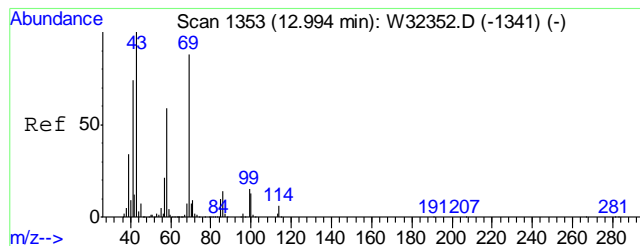
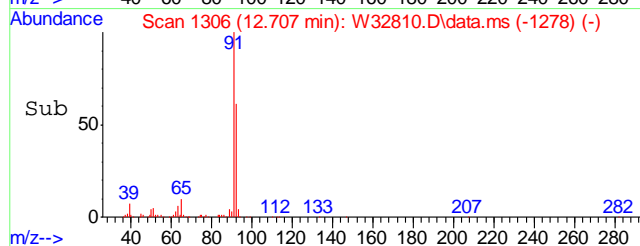
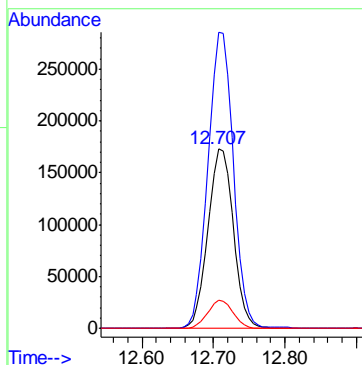
Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.2	20.7	60.7
100	18.6	0.0	36.0
85	19.0	0.0	38.1





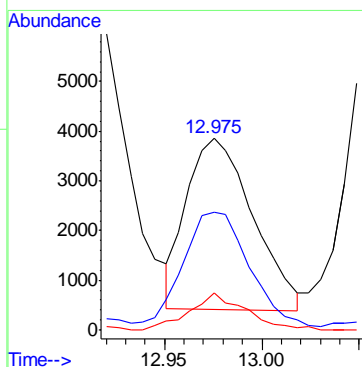
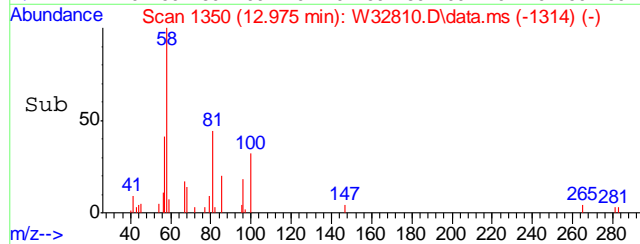
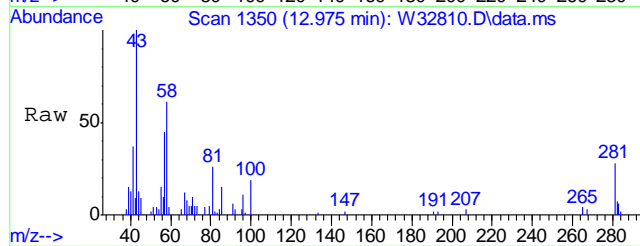
#66
TOLUENE
Concen: 13.39 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.030 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

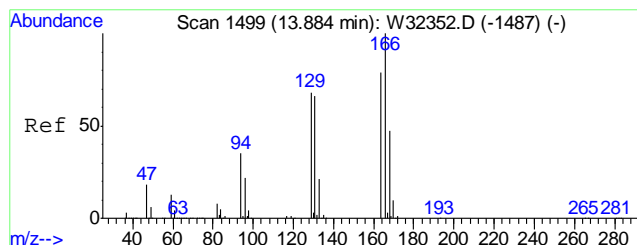
Tgt Ion	Ratio	Lower	Upper
92	100		
91	165.2	146.2	186.2
65	15.7	0.4	40.4



#71
2-HEXANONE
Concen: 0.31 PPBV
RT: 12.975 min Scan# 1350
Delta R.T. -0.018 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

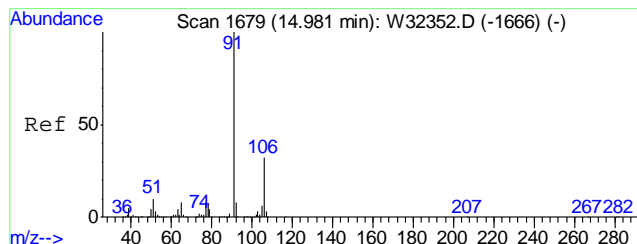
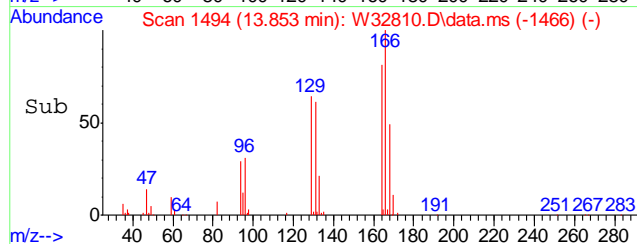
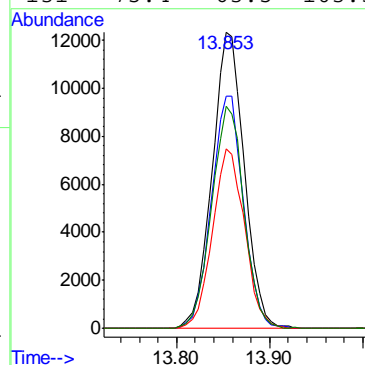
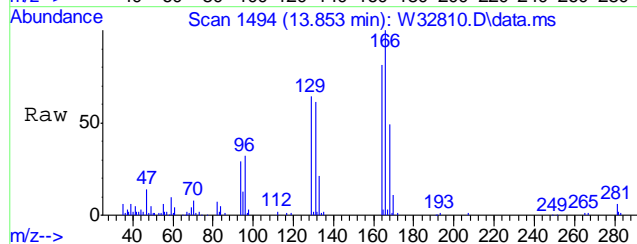
Tgt Ion	Ratio	Lower	Upper
43	100		
58	71.1	39.4	79.4
100	18.5	0.0	33.6





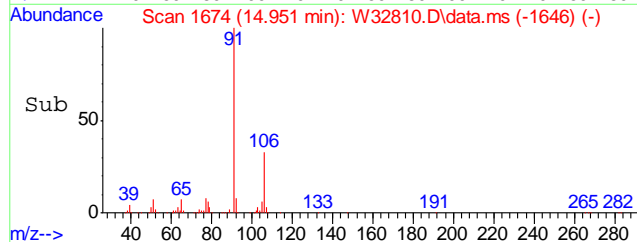
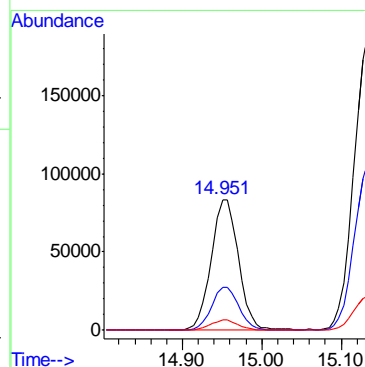
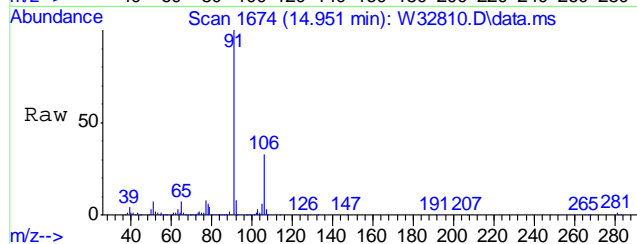
#72
TETRACHLOROETHYLENE
Concen: 1.70 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.030 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

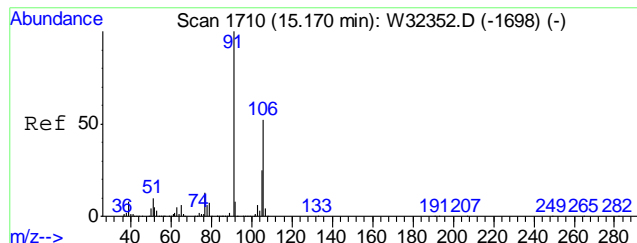
Tgt Ion	Ratio	Lower	Upper
164	100		
129	78.4	66.3	106.3
168	60.7	41.0	81.0
131	75.4	63.5	103.5



#78
ETHYLBENZENE
Concen: 3.79 PPBV
RT: 14.951 min Scan# 1674
Delta R.T. -0.030 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

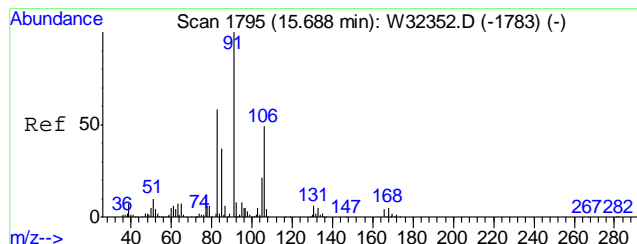
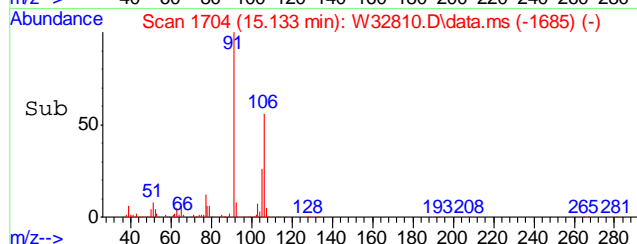
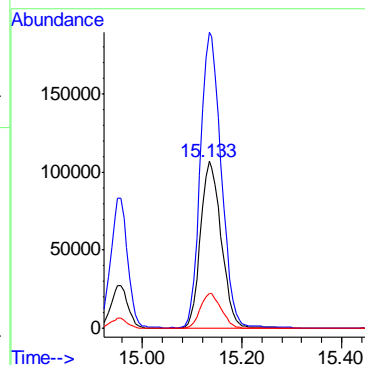
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.2	11.7	51.7
77	8.0	0.0	28.1





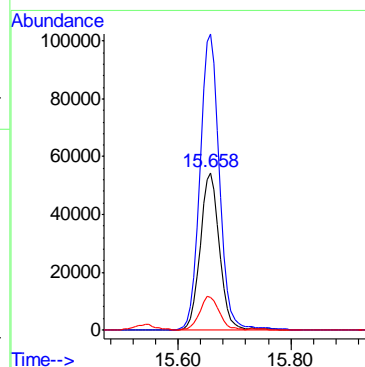
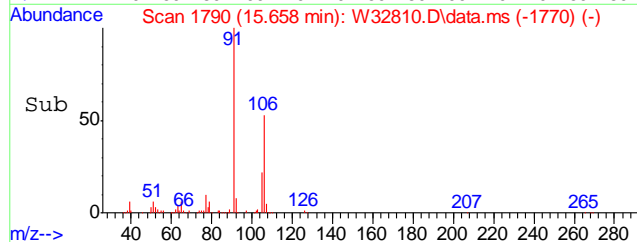
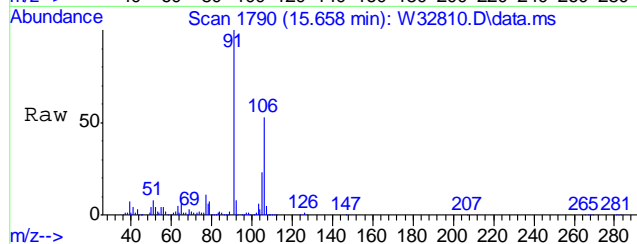
#79
m,p-XYLENE
Concen: 15.22 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

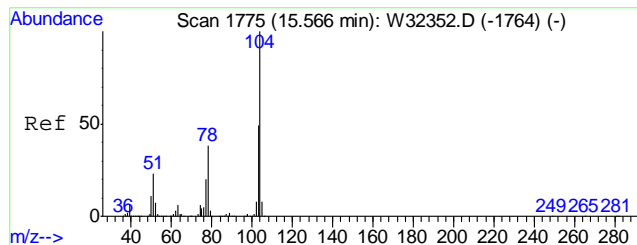
Tgt Ion	Ratio	Lower	Upper
106	100		
91	177.6	152.6	228.8
77	20.7	19.9	29.9



#80
o-XYLENE
Concen: 6.69 PPBV
RT: 15.658 min Scan# 1790
Delta R.T. -0.030 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

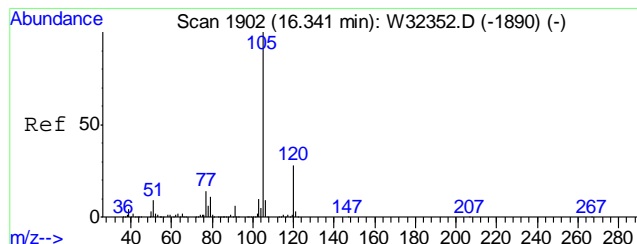
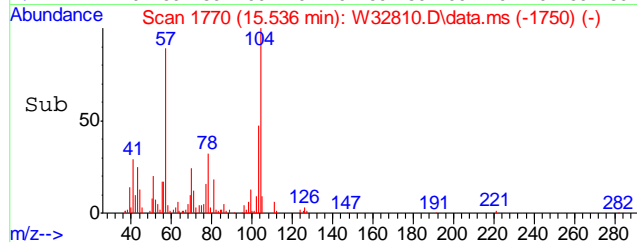
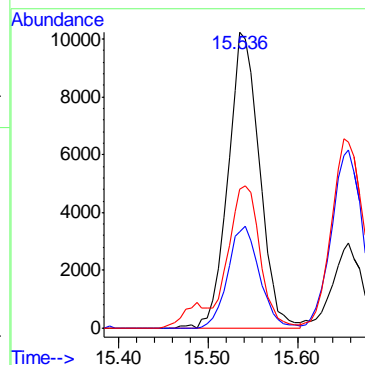
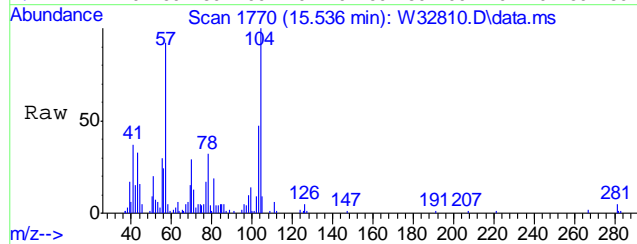
Tgt Ion	Ratio	Lower	Upper
106	100		
91	189.8	182.1	222.1
77	21.1	4.0	44.0





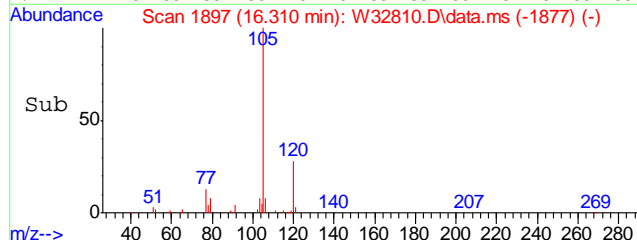
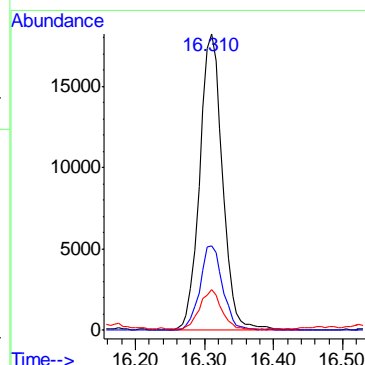
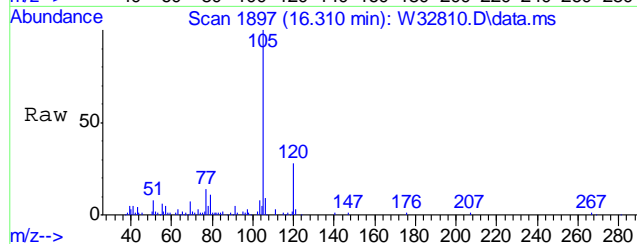
#81
 STYRENE
 Concen: 0.90 PPBV
 RT: 15.536 min Scan# 1770
 Delta R.T. -0.030 min
 Lab File: W32810.D
 Acq: 20 Jul 2011 4:09 pm

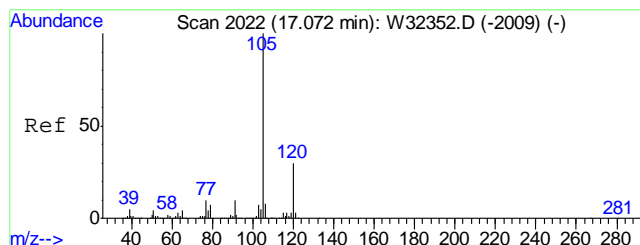
Tgt Ion:	104	Resp:	24978
Ion Ratio	Lower	Upper	
104	100		
78	34.9	18.2	58.2
103	45.1	28.2	68.2



#87
 ISOPROPYLBENZENE
 Concen: 0.76 PPBV
 RT: 16.310 min Scan# 1897
 Delta R.T. -0.030 min
 Lab File: W32810.D
 Acq: 20 Jul 2011 4:09 pm

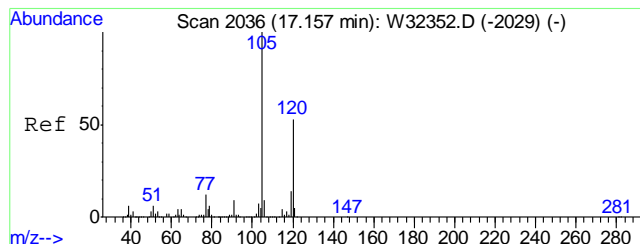
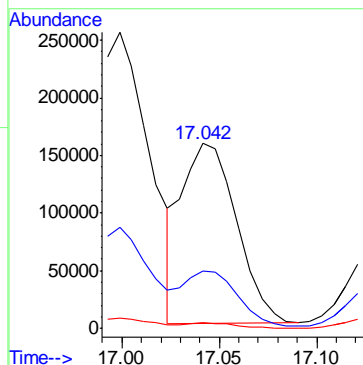
Tgt Ion:	105	Resp:	41712
Ion Ratio	Lower	Upper	
105	100		
120	28.3	6.9	46.9
77	13.7	0.0	33.9





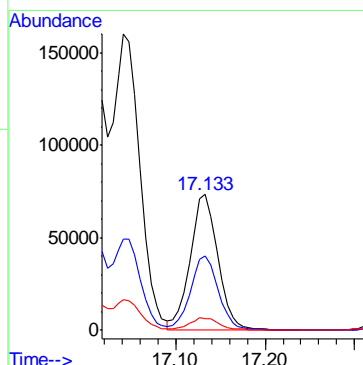
#91
4-ETHYLTOLUENE
Concen: 6.64 PPBV
RT: 17.042 min Scan# 2017
Delta R.T. -0.030 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

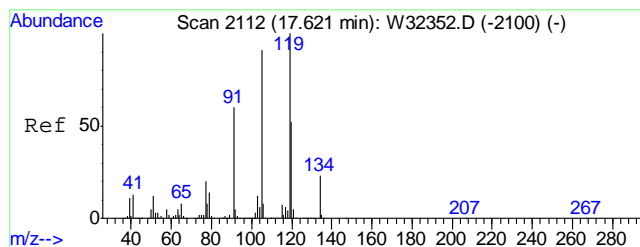
Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.3	9.8	49.8
119	2.5	0.0	22.9



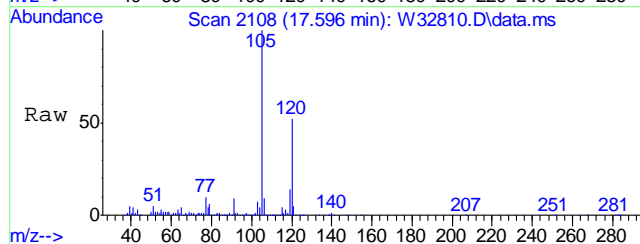
#92
1,3,5-TRIMETHYLBENZENE
Concen: 4.17 PPBV
RT: 17.133 min Scan# 2032
Delta R.T. -0.024 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.3	32.9	72.9
91	9.1	0.0	29.3

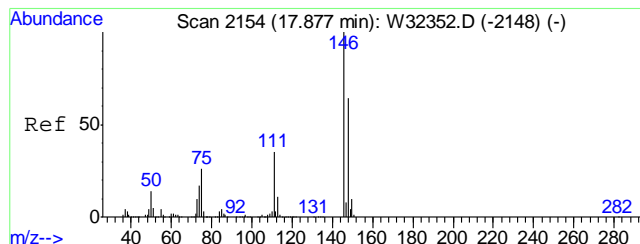
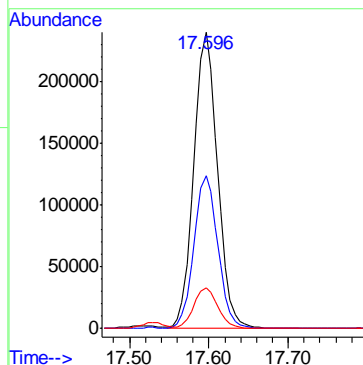
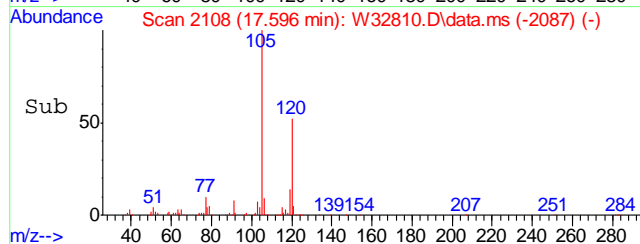




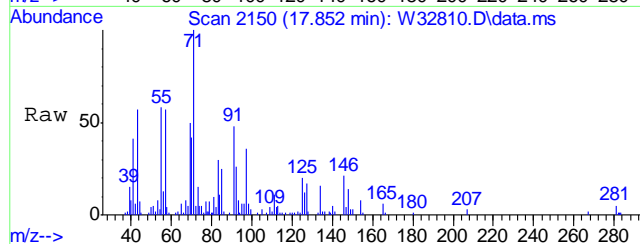
#95
1,2,4-TRIMETHYLBENZENE
Concen: 14.36 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm



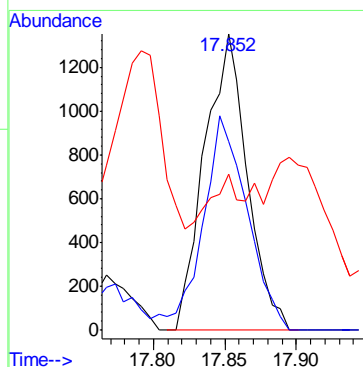
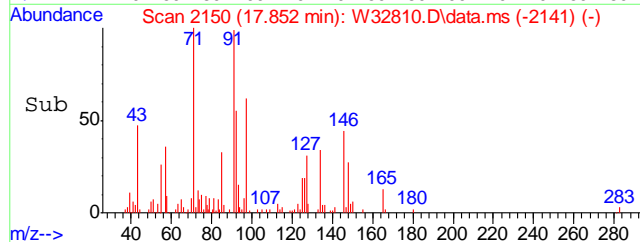
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.1	39.3	79.3
119	14.0	101.1	141.1#

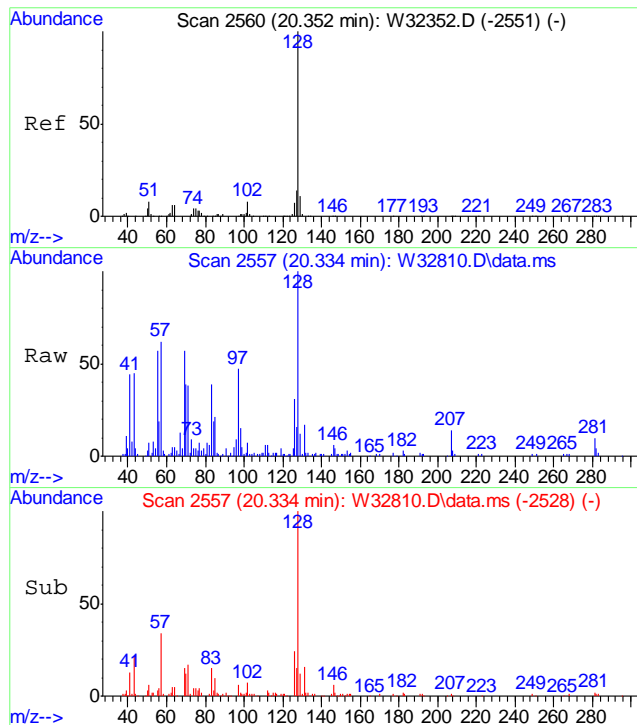


#98
p-DICHLOROBENZENE
Concen: 0.14 PPBV
RT: 17.852 min Scan# 2150
Delta R.T. -0.024 min
Lab File: W32810.D
Acq: 20 Jul 2011 4:09 pm



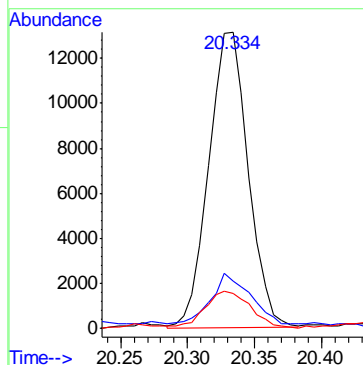
Tgt Ion	Ratio	Lower	Upper
146	100		
148	75.3	43.6	83.6
111	22.1	15.4	55.4





#107
 NAPHTHALENE
 Concen: 3.44 PPBV
 RT: 20.334 min Scan# 2557
 Delta R.T. -0.018 min
 Lab File: W32810.D
 Acq: 20 Jul 2011 4:09 pm

Tgt Ion:	128	Resp:	26895
Ion Ratio	100	Lower	Upper
127	17.1	0.0	34.3
129	14.8	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32819.D
 Acq On : 20 Jul 2011 10:17 pm
 Operator : YOU MINH
 Sample : JA81330-4
 Misc : MS15514,VW1341,50,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 00:25:53 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

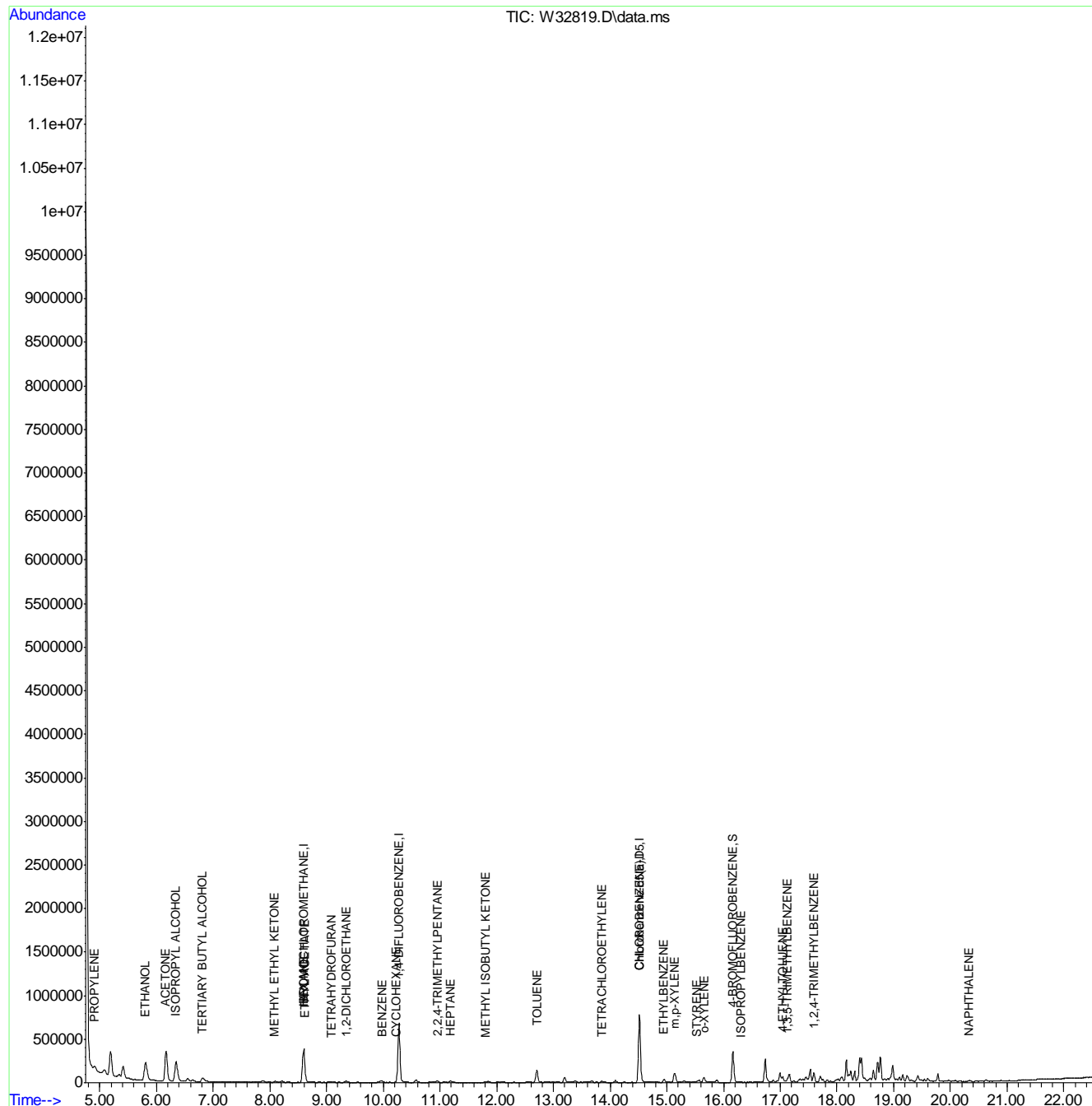
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	158434	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.274	114	810651	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	355904	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	354641	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	178138	4.63	PPBV	-0.03
Spiked Amount	5.000	Range 65 - 128	Recovery	=	92.60%	
Target Compounds						
					Qvalue	
6) PROPYLENE	4.910	41	32258	1.63	PPBV	86
19) ISOPROPYL ALCOHOL	6.342	45	513827	13.31	PPBV	98
20) ACETONE	6.165	58	196022	19.34	PPBV	93
27) ETHANOL	5.806	45	433801	42.79	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.812	59	79015	1.77	PPBV	86
36) TETRAHYDROFURAN	9.092	72	1511	0.16	PPBV #	69
37) HEXANE	8.604	57	13618	0.39	PPBV #	84
40) METHYL ETHYL KETONE	8.086	72	6282	0.66	PPBV #	70
43) ETHYL ACETATE	8.616	61	6011	0.98	PPBV #	1
49) 1,2-DICHLOROETHANE	9.348	62	2455	0.11	PPBV	93
51) BENZENE	9.982	78	17153	0.28	PPBV	99
52) CYCLOHEXANE	10.226	84	4125	0.13	PPBV #	2
59) 2,2,4-TRIMETHYLPENTANE	10.951	57	24461	0.23	PPBV	89
62) HEPTANE	11.183	43	11608	0.29	PPBV	97
64) METHYL ISOBUTYL KETONE	11.799	43	5856	0.14	PPBV	88
66) TOLUENE	12.707	92	85130	2.05	PPBV	98
72) TETRACHLOROETHYLENE	13.853	164	4953	0.21	PPBV	93
78) ETHYLBENZENE	14.950	91	36544	0.52	PPBV	99
79) m,p-XYLENE	15.133	106	54580	1.99	PPBV	100
80) o-XYLENE	15.658	106	22491	0.85	PPBV	98
81) STYRENE	15.536	104	4116	0.11	PPBV	97
87) ISOPROPYLBENZENE	16.304	105	7452	0.10	PPBV	97
91) 4-ETHYLTOLUENE	17.041	105	45024	0.73	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	25291	0.49	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.590	105	73181	1.56	PPBV #	32
107) NAPHTHALENE	20.333	128	3957	0.37	PPBV	87

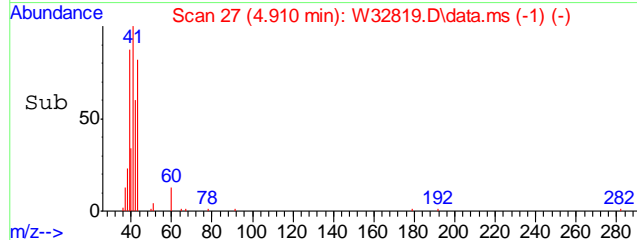
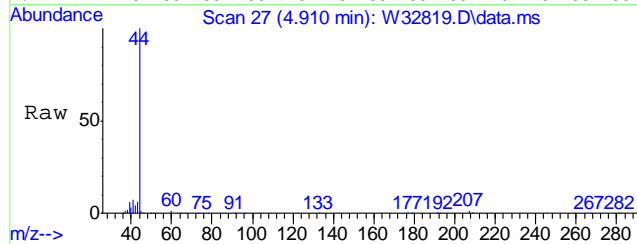
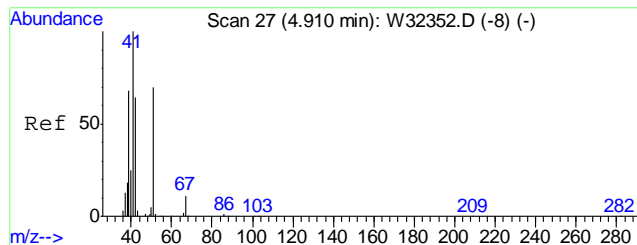
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32819.D
Acq On : 20 Jul 2011 10:17 pm
Operator : YOU MINH
Sample : JA81330-4
Misc : MS15514,VW1341,50,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 00:25:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





#6

PROPYLENE

Concen: 1.63 PPBV

RT: 4.910 min Scan# 27

Delta R.T. -0.000 min

Lab File: W32819.D

Acq: 20 Jul 2011 10:17 pm

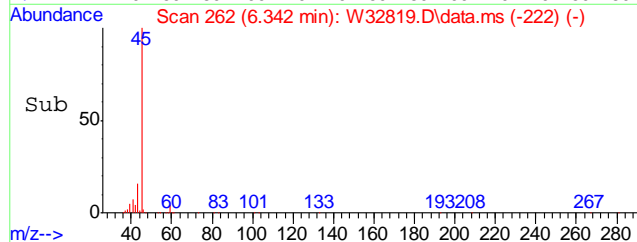
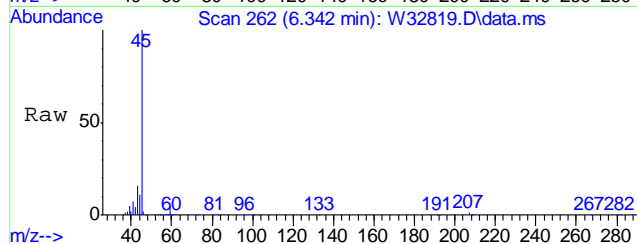
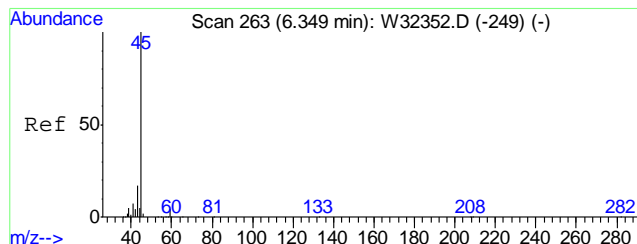
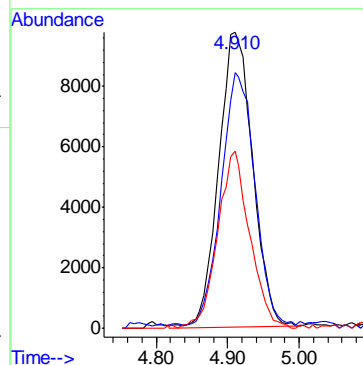
Tgt Ion: 41 Resp: 32258

Ion Ratio Lower Upper

41 100

39 86.5 47.7 87.7

42 59.9 43.7 83.7



#19

ISOPROPYL ALCOHOL

Concen: 13.31 PPBV

RT: 6.342 min Scan# 262

Delta R.T. -0.006 min

Lab File: W32819.D

Acq: 20 Jul 2011 10:17 pm

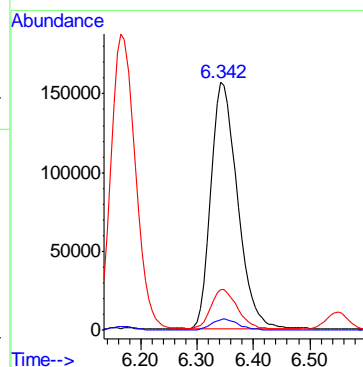
Tgt Ion: 45 Resp: 513827

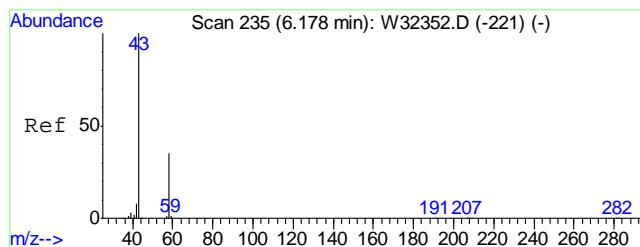
Ion Ratio Lower Upper

45 100

59 4.3 0.0 24.3

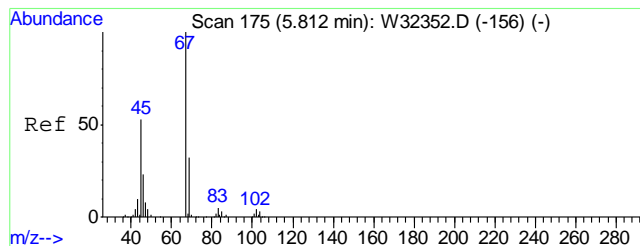
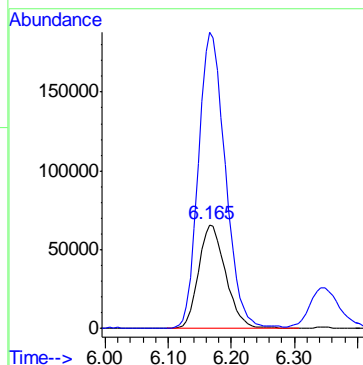
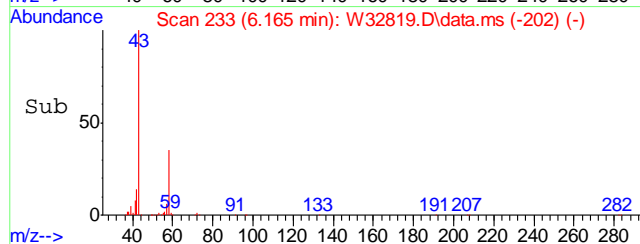
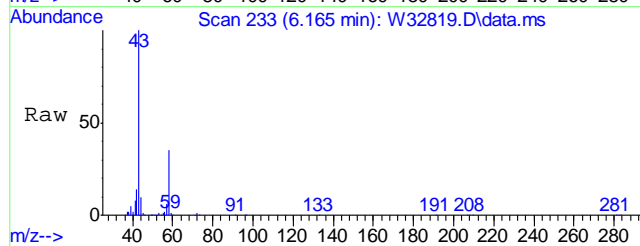
43 16.5 0.0 37.5





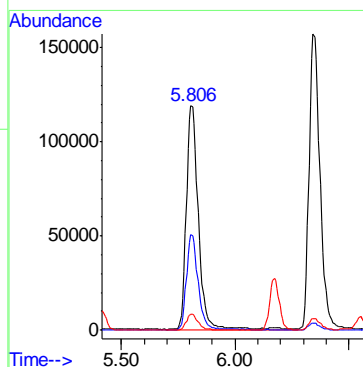
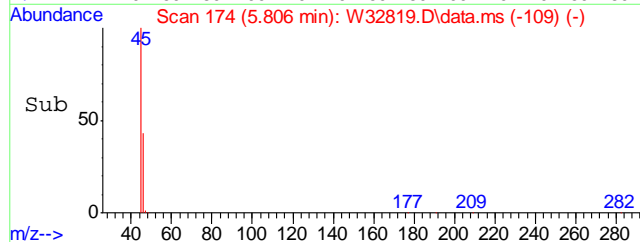
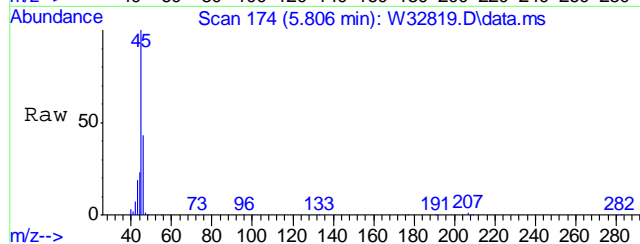
#20
 ACETONE
 Concen: 19.34 PPBV
 RT: 6.165 min Scan# 233
 Delta R.T. -0.012 min
 Lab File: W32819.D
 Acq: 20 Jul 2011 10:17 pm

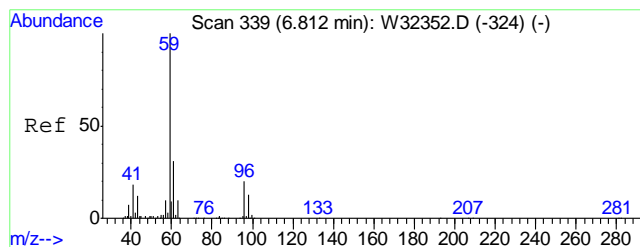
Tgt Ion: 58 Resp: 196022
 Ion Ratio Lower Upper
 58 100
 43 283.4 277.6 317.6



#27
 ETHANOL
 Concen: 42.79 PPBV
 RT: 5.806 min Scan# 174
 Delta R.T. -0.006 min
 Lab File: W32819.D
 Acq: 20 Jul 2011 10:17 pm

Tgt Ion: 45 Resp: 433801
 Ion Ratio Lower Upper
 45 100
 46 40.7 20.6 60.6
 42 6.7 0.0 28.7





#34

TERTIARY BUTYL ALCOHOL

Concen: 1.77 PPBV

RT: 6.812 min Scan# 339

Delta R.T. -0.000 min

Lab File: W32819.D

Acq: 20 Jul 2011 10:17 pm

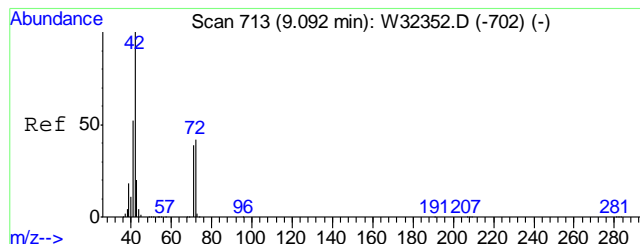
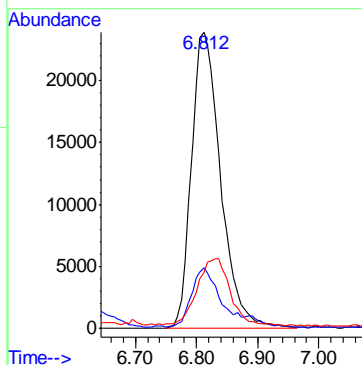
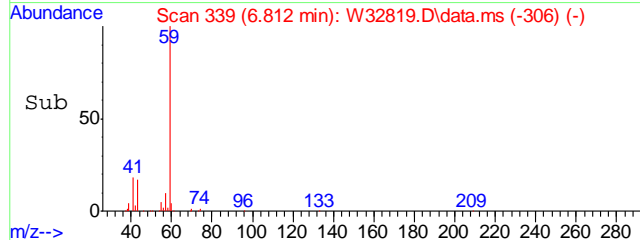
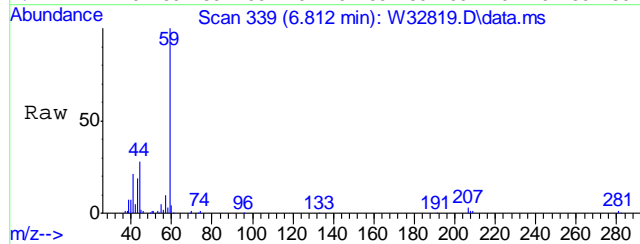
Tgt Ion: 59 Resp: 79015

Ion Ratio Lower Upper

59 100

41 19.7 0.0 39.2

43 25.8 0.0 32.1



#36

TETRAHYDROFURAN

Concen: 0.16 PPBV

RT: 9.092 min Scan# 713

Delta R.T. -0.000 min

Lab File: W32819.D

Acq: 20 Jul 2011 10:17 pm

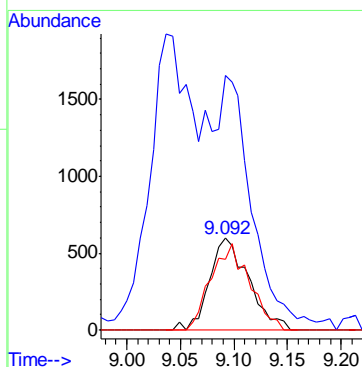
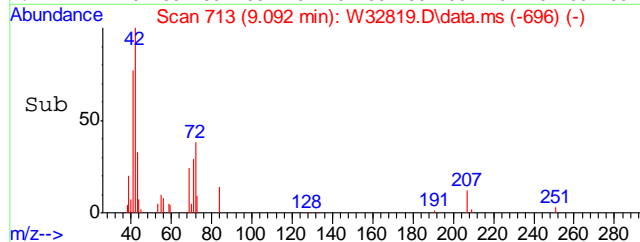
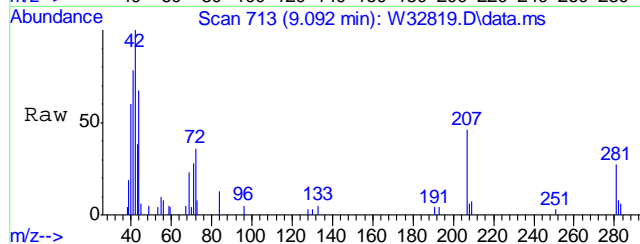
Tgt Ion: 72 Resp: 1511

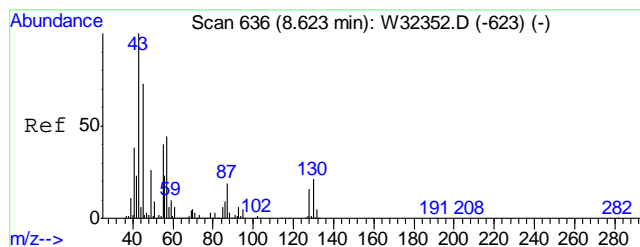
Ion Ratio Lower Upper

72 100

42 311.3 220.0 260.0#

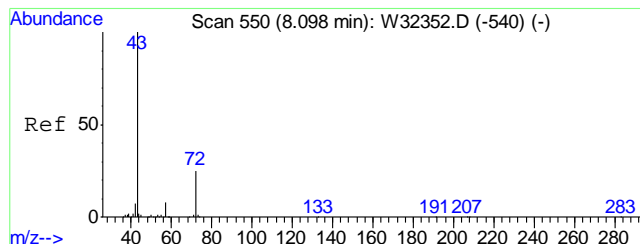
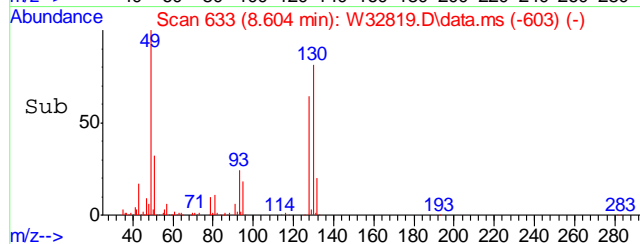
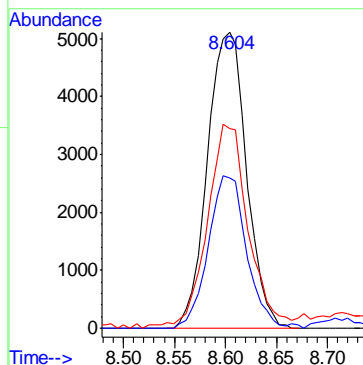
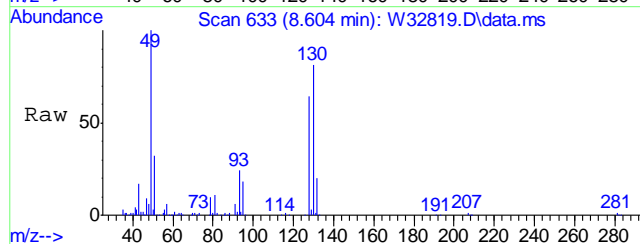
71 92.9 74.2 114.2





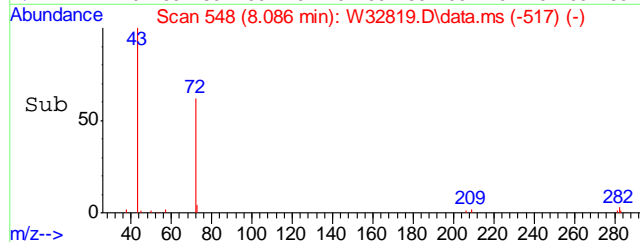
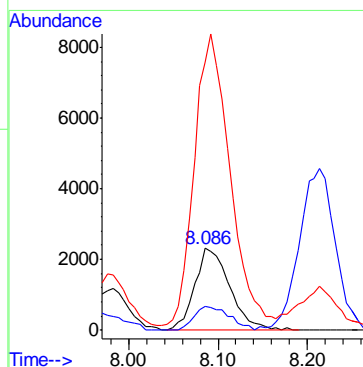
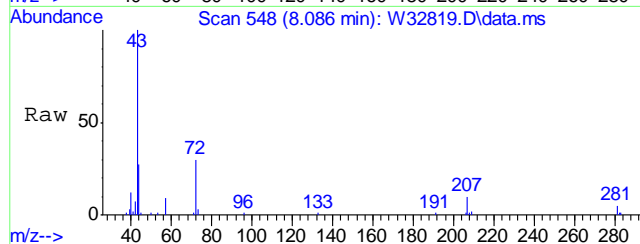
#37
 HEXANE
 Concen: 0.39 PPBV
 RT: 8.604 min Scan# 633
 Delta R.T. -0.018 min
 Lab File: W32819.D
 Acq: 20 Jul 2011 10:17 pm

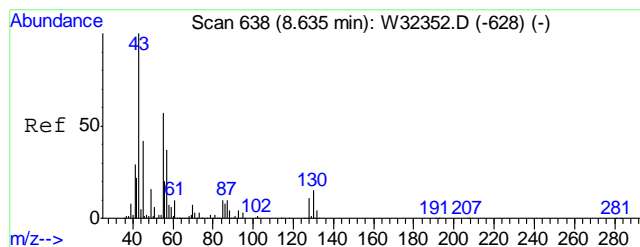
Tgt Ion: 57 Resp: 13618
 Ion Ratio Lower Upper
 57 100
 56 50.4 33.7 73.7
 41 72.1 74.5 114.5#



#40
 METHYL ETHYL KETONE
 Concen: 0.66 PPBV
 RT: 8.086 min Scan# 548
 Delta R.T. -0.012 min
 Lab File: W32819.D
 Acq: 20 Jul 2011 10:17 pm

Tgt Ion: 72 Resp: 6282
 Ion Ratio Lower Upper
 72 100
 57 28.5 11.1 51.1
 43 328.4 386.1 426.1#





#43

ETHYL ACETATE

Concen: 0.98 PPBV

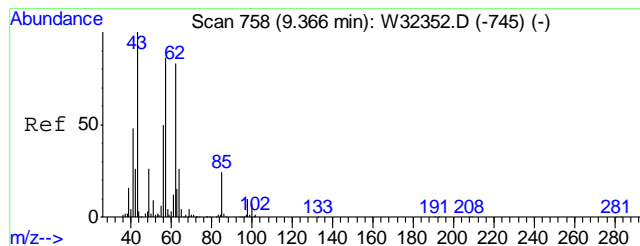
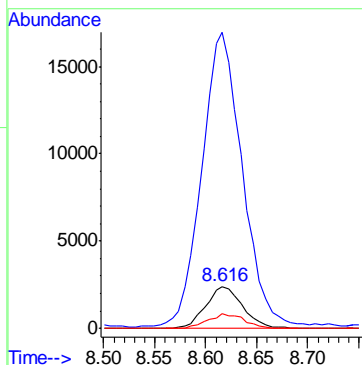
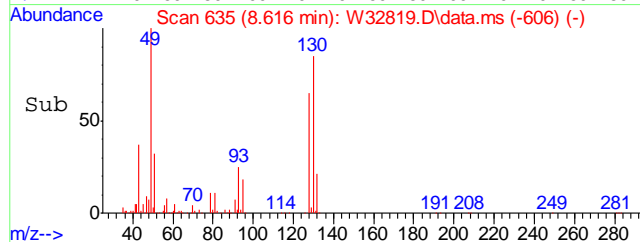
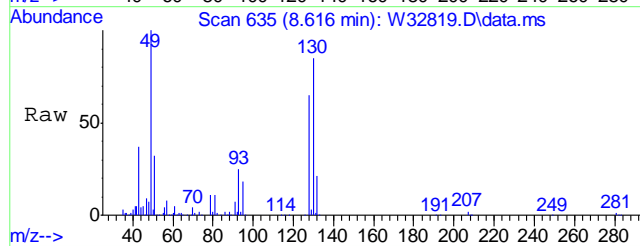
RT: 8.616 min Scan# 635

Delta R.T. -0.018 min

Lab File: W32819.D

Acq: 20 Jul 2011 10:17 pm

Tgt Ion	Ratio	Lower	Upper
61	100		
43	777.3	1488.2	1528.2
88	33.3	27.8	67.8



#49

1,2-DICHLOROETHANE

Concen: 0.11 PPBV

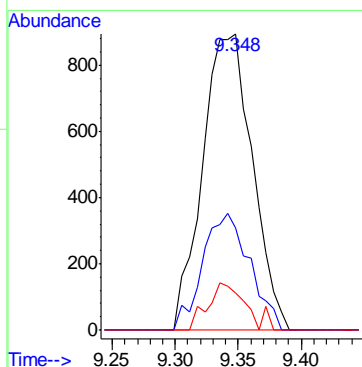
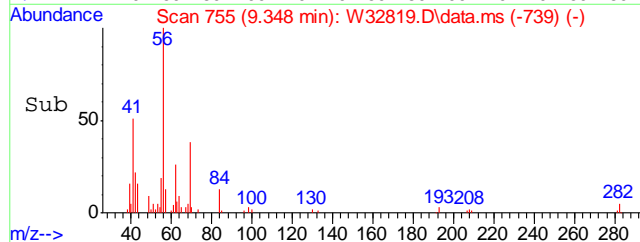
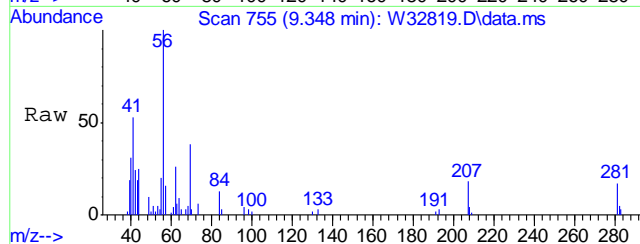
RT: 9.348 min Scan# 755

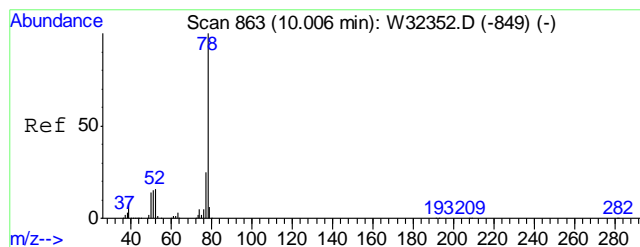
Delta R.T. -0.018 min

Lab File: W32819.D

Acq: 20 Jul 2011 10:17 pm

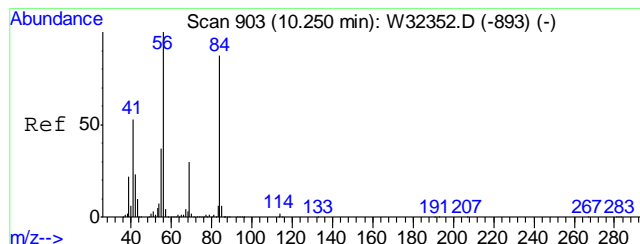
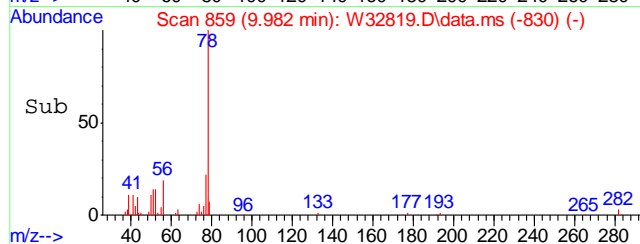
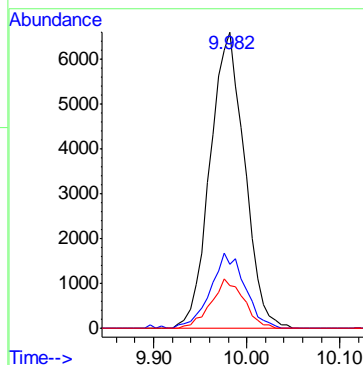
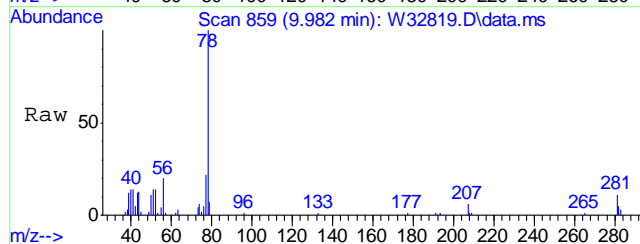
Tgt Ion	Ratio	Lower	Upper
62	100		
64	37.1	12.3	52.3
98	11.1	0.0	32.0





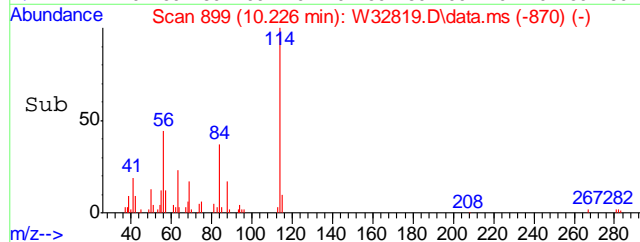
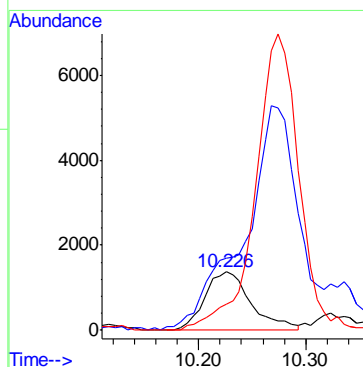
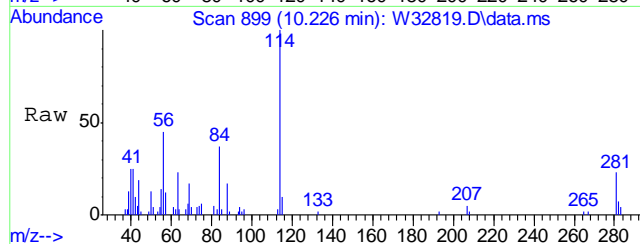
#51
BENZENE
Concen: 0.28 PPBV
RT: 9.982 min Scan# 859
Delta R.T. -0.025 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

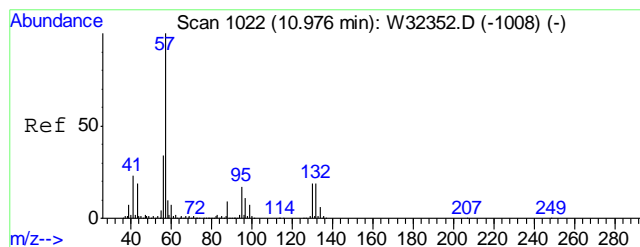
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	4.7	44.7
52	15.8	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.13 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.025 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

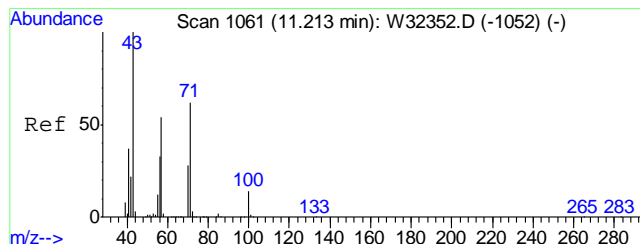
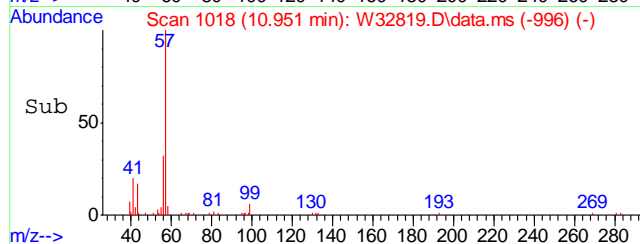
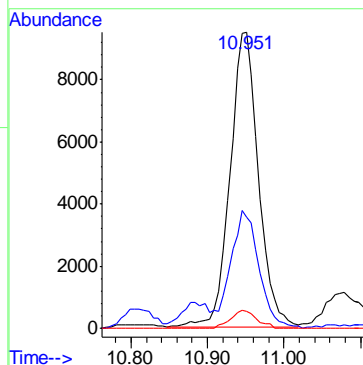
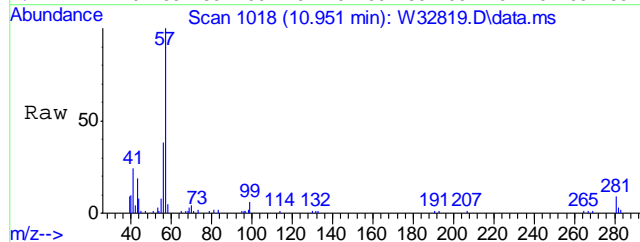
Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	102.7	142.7#
69	0.0	20.8	60.8#





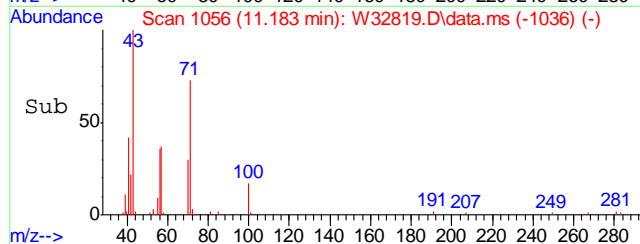
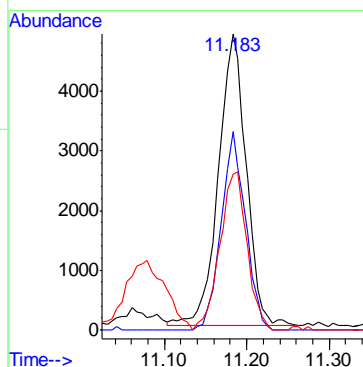
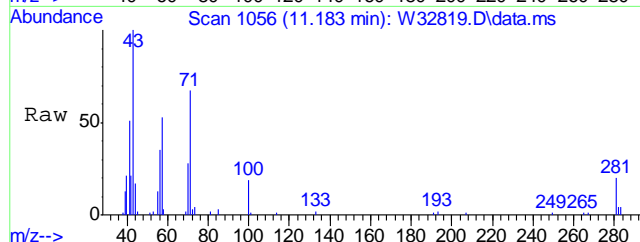
#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.23 PPBV
RT: 10.951 min Scan# 1018
Delta R.T. -0.025 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

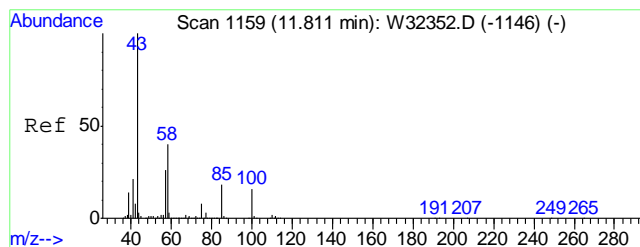
Tgt Ion	Ratio	Lower	Upper
57	100		
56	40.7	13.5	53.5
99	5.6	0.0	27.7



#62
HEPTANE
Concen: 0.29 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
71	59.3	41.6	81.6
57	52.6	34.6	74.6





#64

METHYL ISOBUTYL KETONE

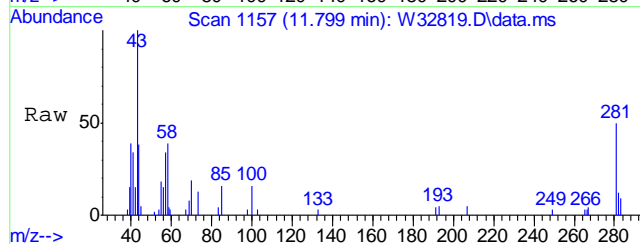
Concen: 0.14 PPBV

RT: 11.799 min Scan# 1157

Delta R.T. -0.012 min

Lab File: W32819.D

Acq: 20 Jul 2011 10:17 pm



Tgt Ion: 43 Resp: 5856

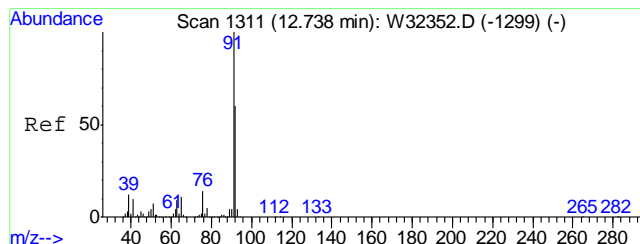
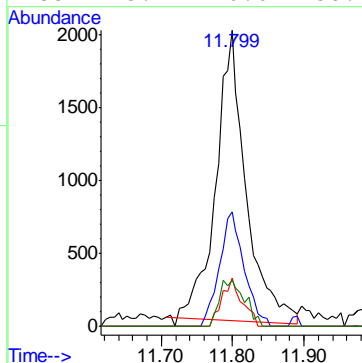
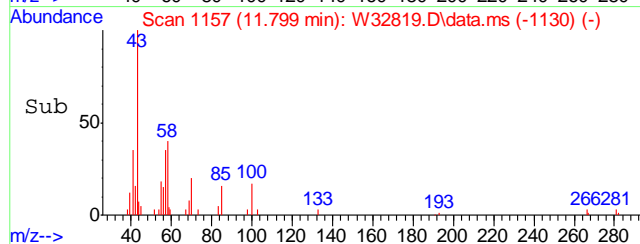
Ion Ratio Lower Upper

43 100

58 32.3 20.7 60.7

100 11.2 0.0 36.0

85 13.4 0.0 38.1



#66

TOLUENE

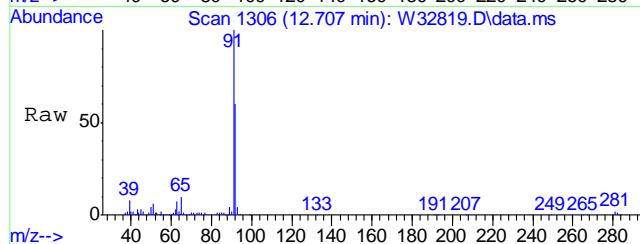
Concen: 2.05 PPBV

RT: 12.707 min Scan# 1306

Delta R.T. -0.031 min

Lab File: W32819.D

Acq: 20 Jul 2011 10:17 pm



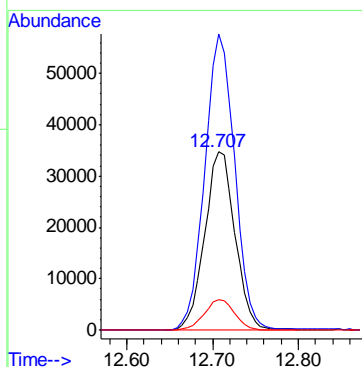
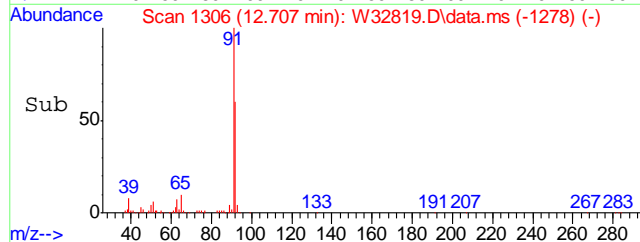
Tgt Ion: 92 Resp: 85130

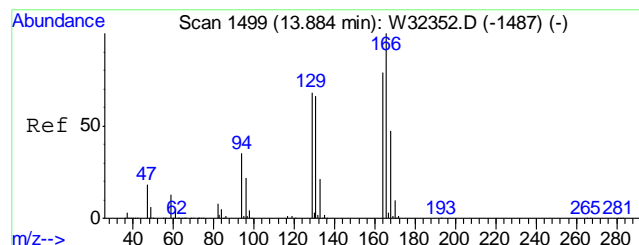
Ion Ratio Lower Upper

92 100

91 164.4 146.2 186.2

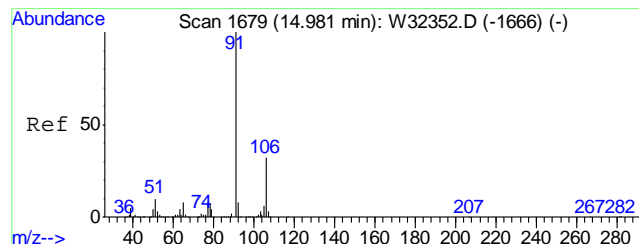
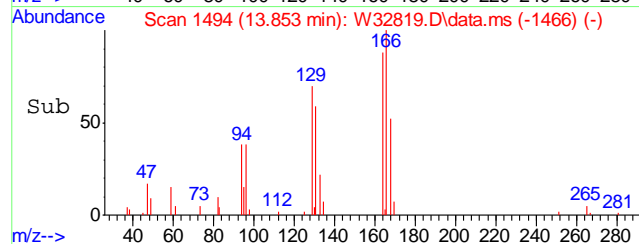
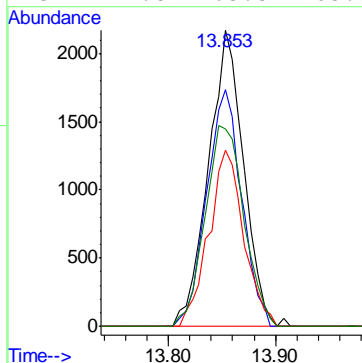
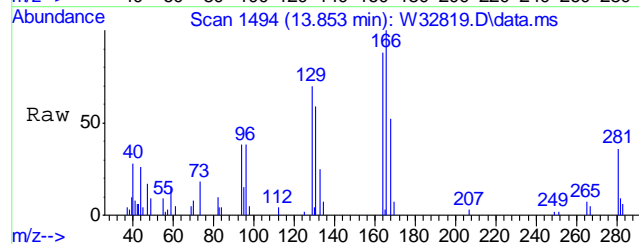
65 17.0 0.4 40.4





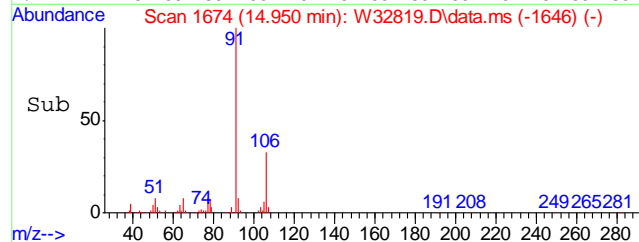
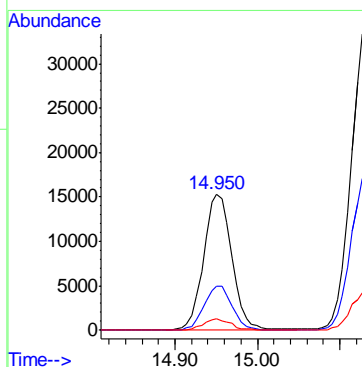
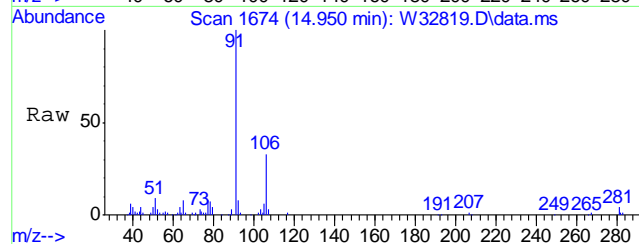
#72
TETRACHLOROETHYLENE
Concen: 0.21 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.031 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

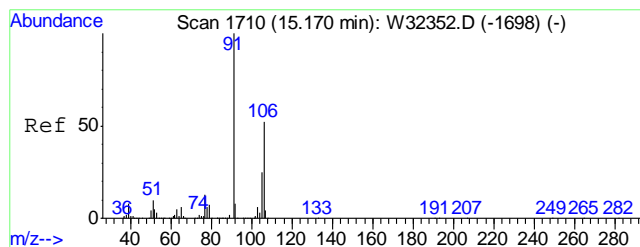
Tgt Ion	Ratio	Lower	Upper
164	100		
129	79.5	66.3	106.3
168	59.0	41.0	81.0
131	74.8	63.5	103.5



#78
ETHYLBENZENE
Concen: 0.52 PPBV
RT: 14.950 min Scan# 1674
Delta R.T. -0.031 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

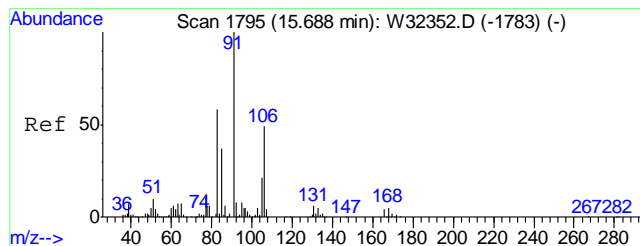
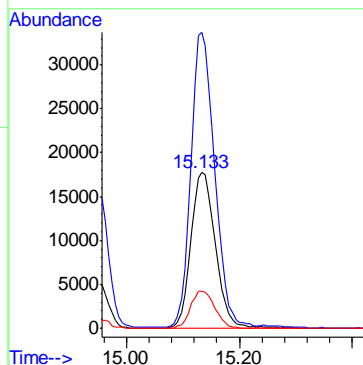
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.0	11.7	51.7
77	7.8	0.0	28.1





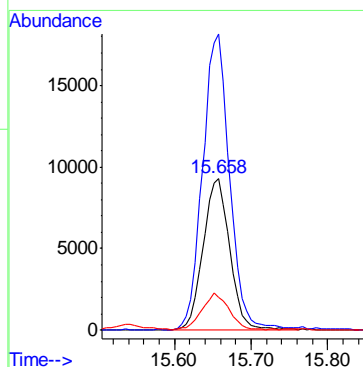
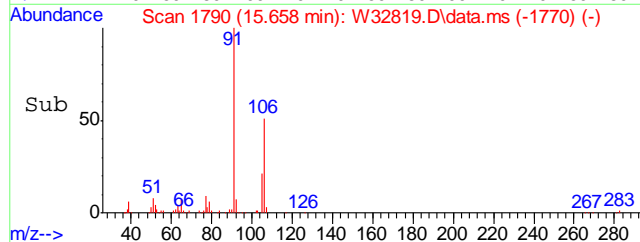
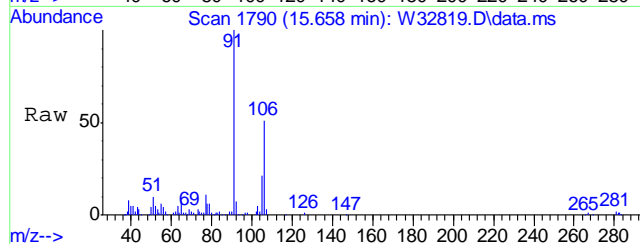
#79
m,p-XYLENE
Concen: 1.99 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

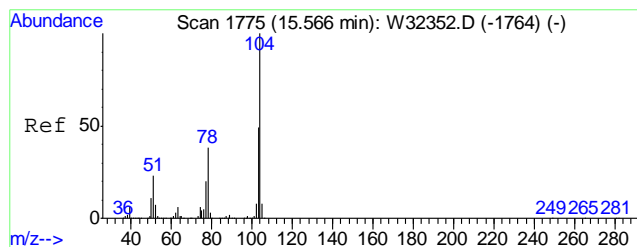
Tgt Ion	Ratio	Lower	Upper
106	100		
91	190.3	152.6	228.8
77	24.2	19.9	29.9



#80
o-XYLENE
Concen: 0.85 PPBV
RT: 15.658 min Scan# 1790
Delta R.T. -0.031 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

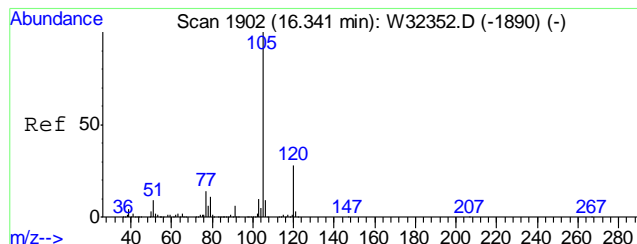
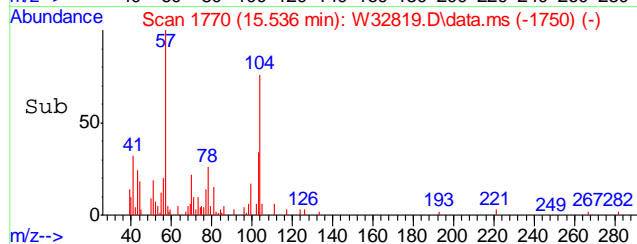
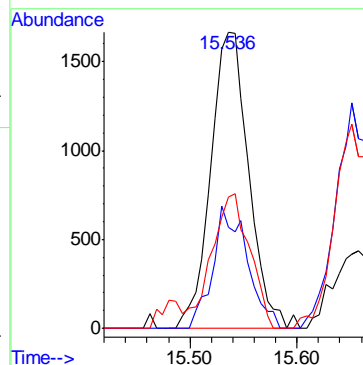
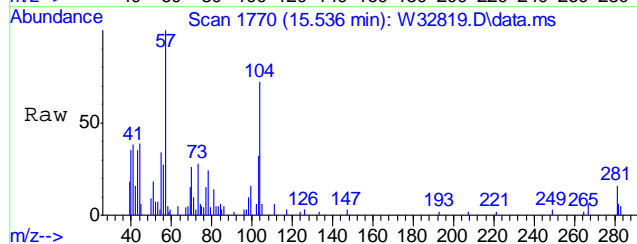
Tgt Ion	Ratio	Lower	Upper
106	100		
91	198.2	182.1	222.1
77	24.7	4.0	44.0





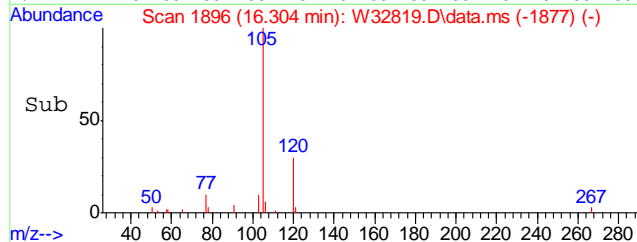
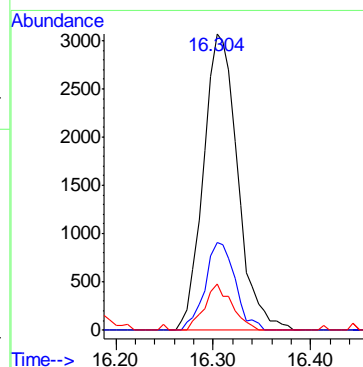
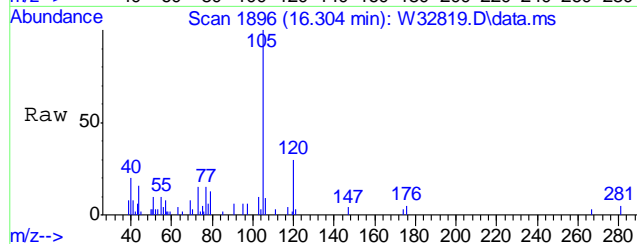
#81
 STYRENE
 Concen: 0.11 PPBV
 RT: 15.536 min Scan# 1770
 Delta R.T. -0.031 min
 Lab File: W32819.D
 Acq: 20 Jul 2011 10:17 pm

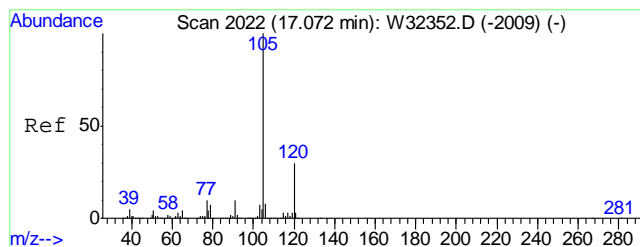
Tgt Ion	Ratio	Lower	Upper
104	100		
78	37.2	18.2	58.2
103	45.5	28.2	68.2



#87
 ISOPROPYLBENZENE
 Concen: 0.10 PPBV
 RT: 16.304 min Scan# 1896
 Delta R.T. -0.037 min
 Lab File: W32819.D
 Acq: 20 Jul 2011 10:17 pm

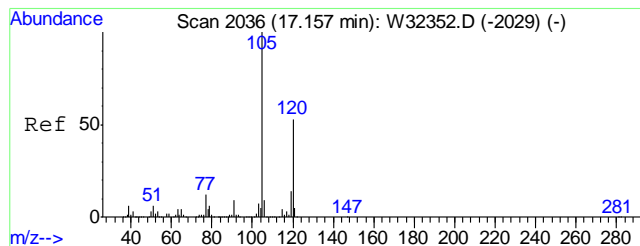
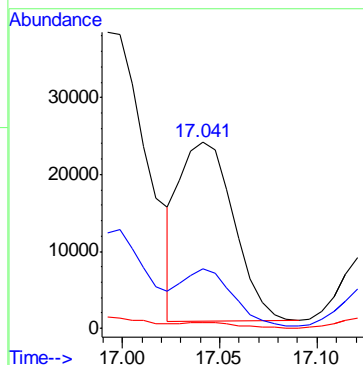
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	6.9	46.9
77	12.3	0.0	33.9





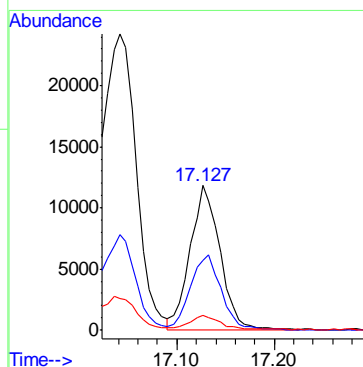
#91
4-ETHYLTOLUENE
Concen: 0.73 PPBV
RT: 17.041 min Scan# 2017
Delta R.T. -0.031 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

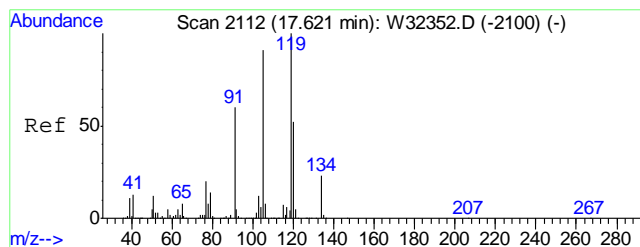
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.6	9.8	49.8
119	3.2	0.0	22.9



#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.49 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.031 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

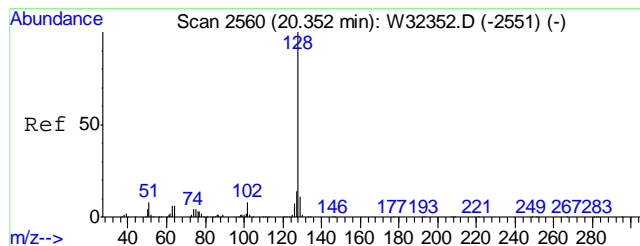
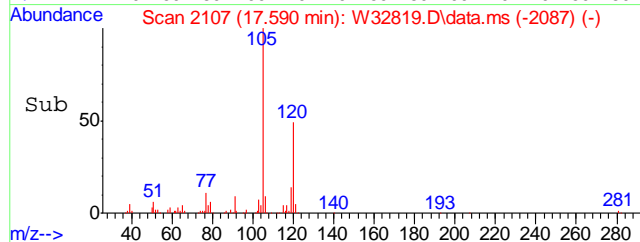
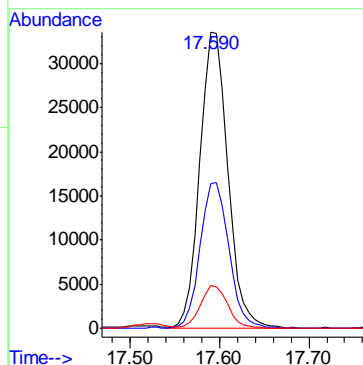
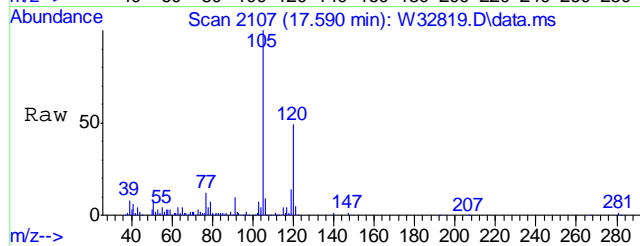
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.5	32.9	72.9
91	10.9	0.0	29.3





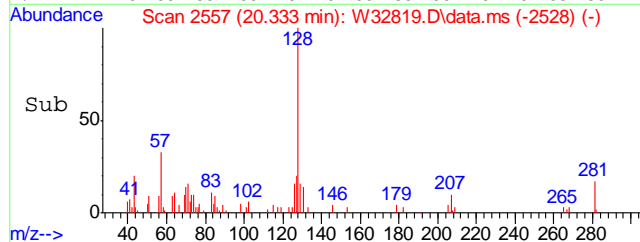
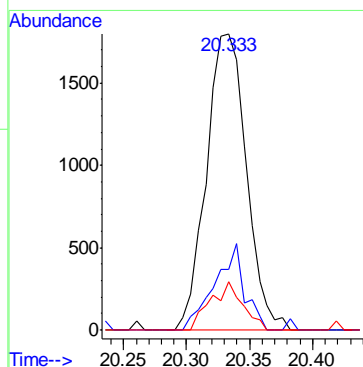
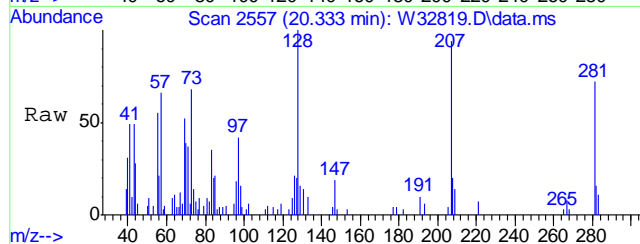
#95
1,2,4-TRIMETHYLBENZENE
Concen: 1.56 PPBV
RT: 17.590 min Scan# 2107
Delta R.T. -0.031 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.4	39.3	79.3
119	14.1	101.1	141.1#



#107
NAPHTHALENE
Concen: 0.37 PPBV
RT: 20.333 min Scan# 2557
Delta R.T. -0.018 min
Lab File: W32819.D
Acq: 20 Jul 2011 10:17 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
127	21.7	0.0	34.3
129	13.1	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32811.D
 Acq On : 20 Jul 2011 4:50 pm
 Operator : YOU MINH
 Sample : JA81330-5
 Misc : MS15514,VW1341,400,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 00:25:01 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.598	128	117296	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.281	114	569724	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	241545	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	238996	10.00	PPBV	-0.03

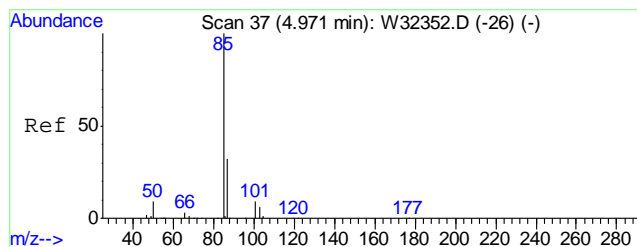
System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.170	95	136431	5.23	PPBV	-0.02
Spiked Amount	5.000	Range	65 - 128	Recovery	=	104.60%

Target Compounds

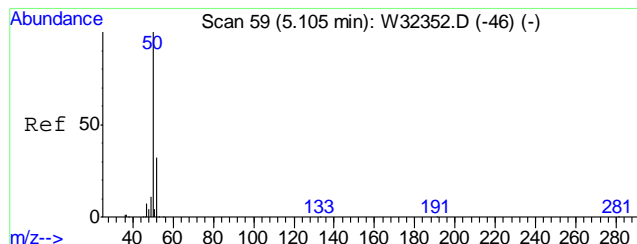
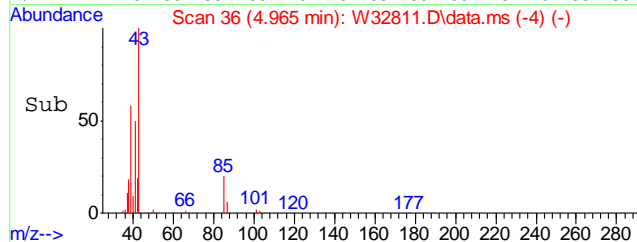
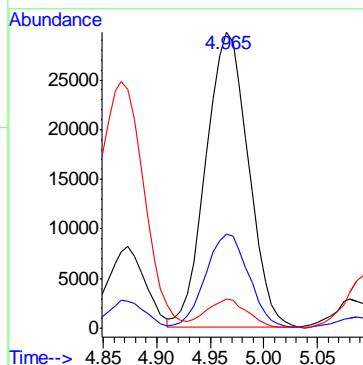
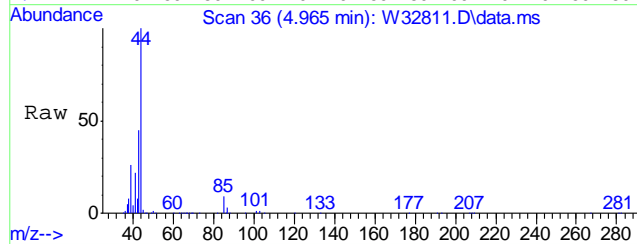
						Qvalue
5) DICHLORODIFLUOROMETHANE	4.965	85	81730	2.37	PPBV	98
8) CHLOROMETHANE	5.099	52	5445	1.22	PPBV	91
18) TRICHLOROFLUOROMETHANE	6.312	101	35464	1.08	PPBV	99
19) ISOPROPYL ALCOHOL	6.434	45	1940533	67.89	PPBV	99
20) ACETONE	6.166	58	707416	94.27	PPBV #	84
26) CARBON DISULFIDE	7.153	76	5158	0.14	PPBV #	59
27) ETHANOL	5.885	45	12766511	1700.75	PPBV	98
30) METHYLENE CHLORIDE	6.867	84	4111	0.29	PPBV	89
36) TETRAHYDROFURAN	9.086	72	3358	0.49	PPBV #	78
37) HEXANE	8.604	57	13426	0.53	PPBV #	86
40) METHYL ETHYL KETONE	8.092	72	16723	2.38	PPBV #	62
43) ETHYL ACETATE	8.616	61	26578	5.84	PPBV #	1
45) CHLOROFORM	8.708	83	24079	0.88	PPBV	98
48) CARBON TETRACHLORIDE	10.116	117	5193	0.19	PPBV	98
49) 1,2-DICHLOROETHANE	9.348	62	2779	0.18	PPBV	99
51) BENZENE	9.982	78	26803	0.62	PPBV	97
52) CYCLOHEXANE	10.226	84	6354	0.29	PPBV #	68
54) TRICHLOROETHYLENE	10.951	95	677	0.04	PPBV	84
59) 2,2,4-TRIMETHYLPENTANE	10.951	57	17239	0.23	PPBV	91
62) HEPTANE	11.183	43	18340	0.66	PPBV	82
64) METHYL ISOBUTYL KETONE	11.805	43	10346	0.34	PPBV	96
66) TOLUENE	12.707	92	149688	5.13	PPBV	99
71) 2-HEXANONE	12.987	43	4470	0.19	PPBV	91
72) TETRACHLOROETHYLENE	13.853	164	3215	0.20	PPBV	94
78) ETHYLBENZENE	14.957	91	27097	0.56	PPBV	97
79) m,p-XYLENE	15.133	106	33988	1.83	PPBV	91
80) o-XYLENE	15.658	106	11000	0.61	PPBV	96
81) STYRENE	15.542	104	21001	0.82	PPBV	98
91) 4-ETHYLTOLUENE	17.048	105	9263	0.22	PPBV	98
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	9542	0.27	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	35582	1.12	PPBV #	33
98) p-DICHLOROBENZENE	17.852	146	19768	1.06	PPBV	97
107) NAPHTHALENE	20.334	128	4157801	580.95	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



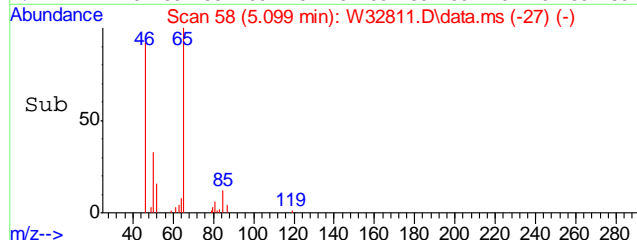
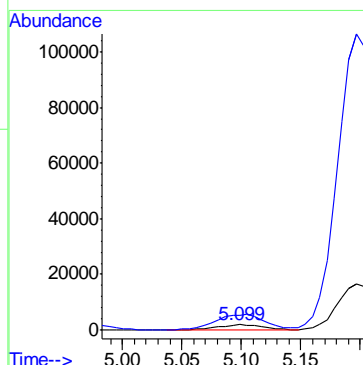
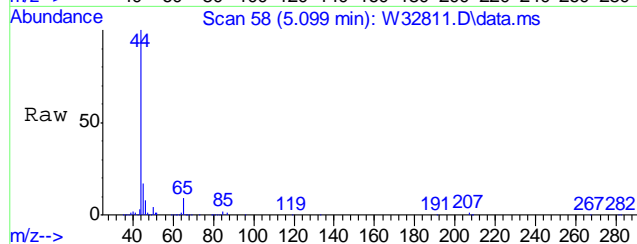
#5
 DICHLORODIFLUOROMETHANE
 Concen: 2.37 PPBV
 RT: 4.965 min Scan# 36
 Delta R.T. -0.006 min
 Lab File: W32811.D
 Acq: 20 Jul 2011 4:50 pm

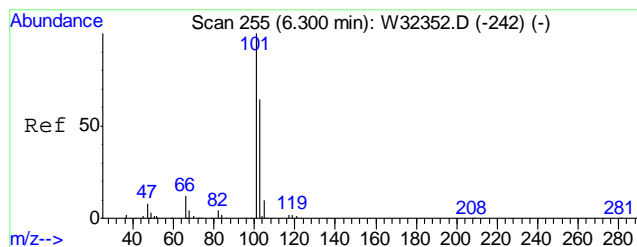
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	12.0	52.0
50	9.1	0.0	30.7



#8
 CHLOROMETHANE
 Concen: 1.22 PPBV
 RT: 5.099 min Scan# 58
 Delta R.T. -0.006 min
 Lab File: W32811.D
 Acq: 20 Jul 2011 4:50 pm

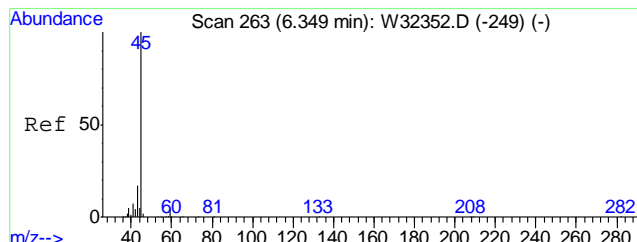
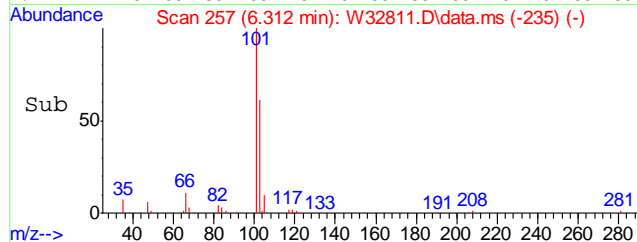
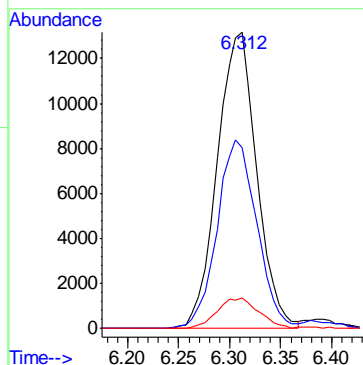
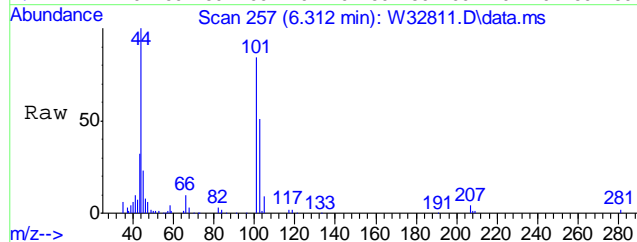
Tgt Ion	Ratio	Lower	Upper
52	100		
50	271.4	268.6	308.6





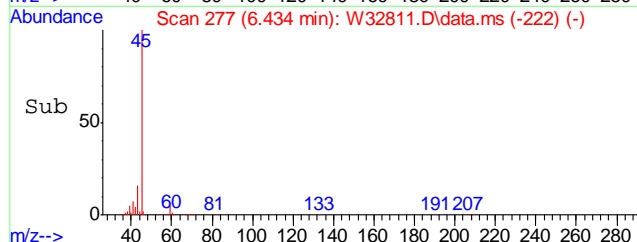
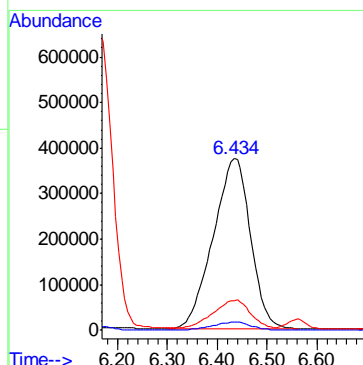
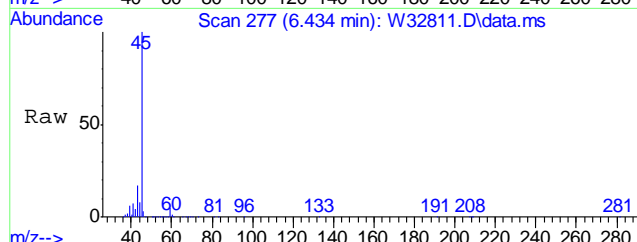
#18
TRICHLOROFLUOROMETHANE
Concen: 1.08 PPBV
RT: 6.312 min Scan# 257
Delta R.T. 0.012 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

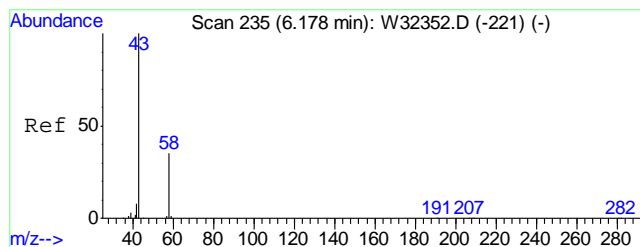
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.1	44.9	84.9
105	10.8	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 67.89 PPBV
RT: 6.434 min Scan# 277
Delta R.T. 0.085 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

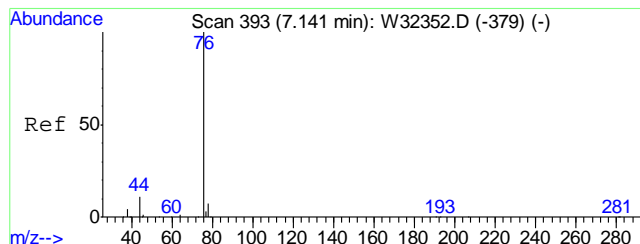
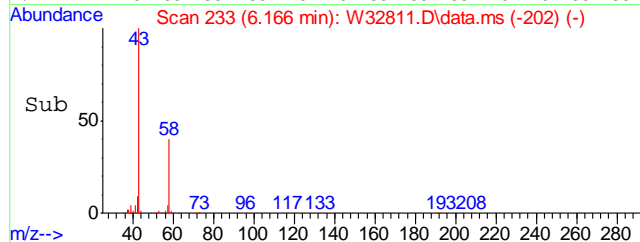
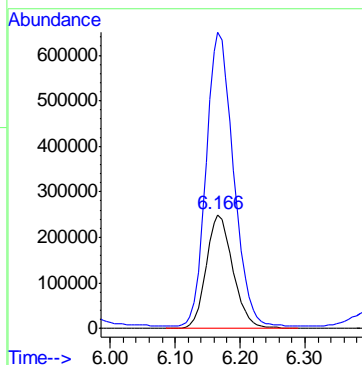
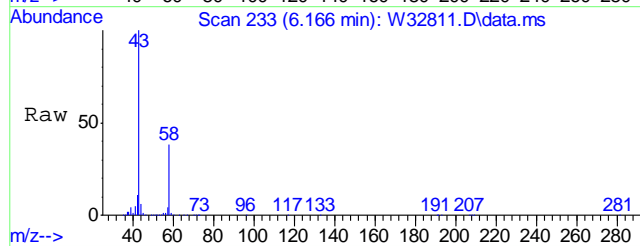
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.7	0.0	24.3
43	17.3	0.0	37.5





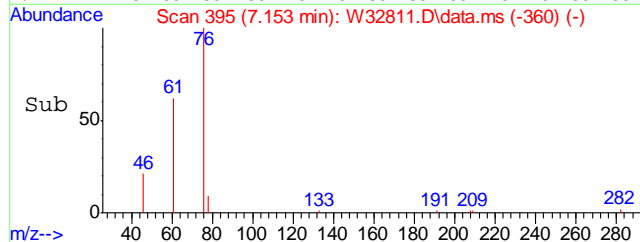
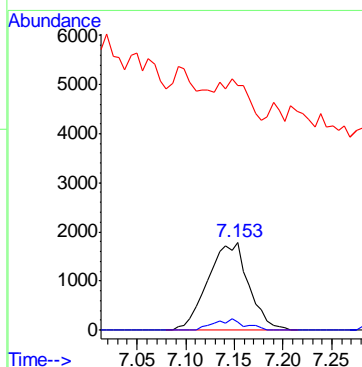
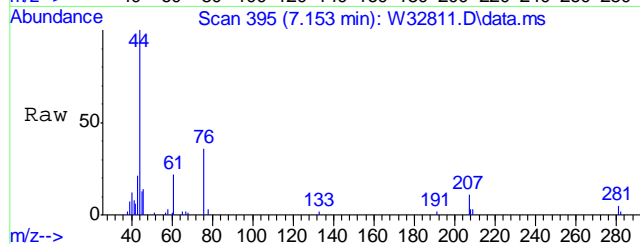
#20
 ACETONE
 Concen: 94.27 PPBV
 RT: 6.166 min Scan# 233
 Delta R.T. -0.012 min
 Lab File: W32811.D
 Acq: 20 Jul 2011 4:50 pm

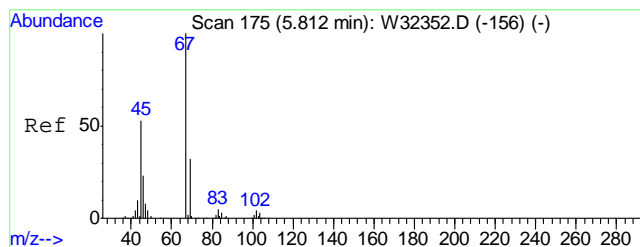
Tgt Ion: 58 Resp: 707416
 Ion Ratio Lower Upper
 58 100
 43 267.2 277.6 317.6#



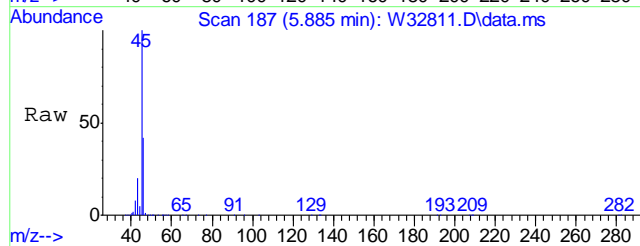
#26
 CARBON DISULFIDE
 Concen: 0.14 PPBV
 RT: 7.153 min Scan# 395
 Delta R.T. 0.012 min
 Lab File: W32811.D
 Acq: 20 Jul 2011 4:50 pm

Tgt Ion: 76 Resp: 5158
 Ion Ratio Lower Upper
 76 100
 78 9.3 0.0 28.9
 44 39.1 0.0 31.0#

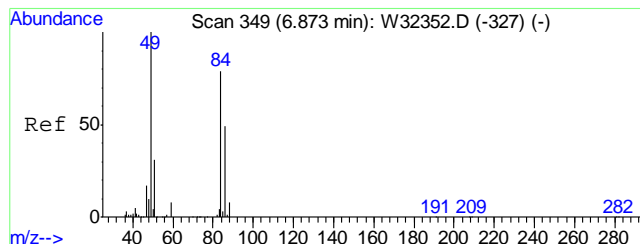
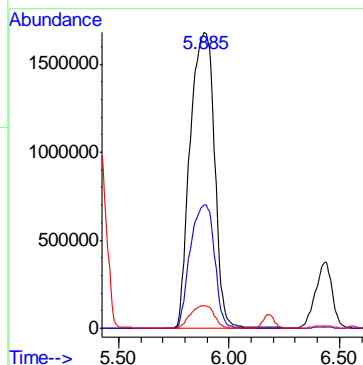
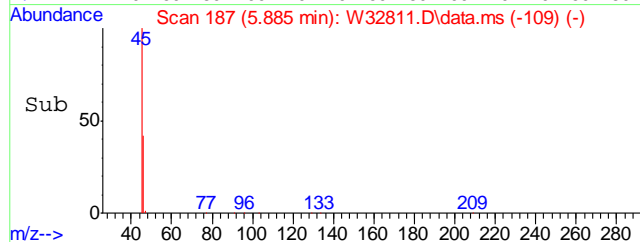




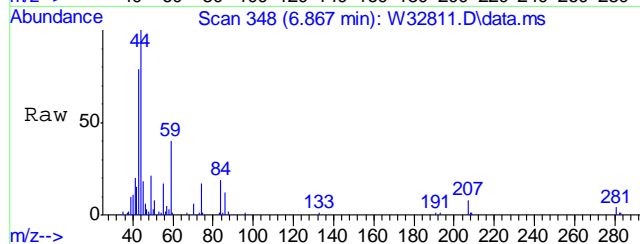
#27
ETHANOL
Concen: 1700.75 PPBV
RT: 5.885 min Scan# 187
Delta R.T. 0.073 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm



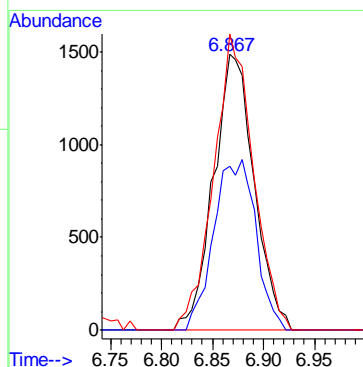
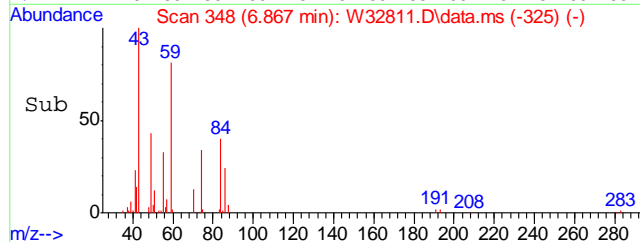
Tgt Ion: 45 Resp: 12766511
Ion Ratio Lower Upper
45 100
46 41.5 20.6 60.6
42 7.3 0.0 28.7

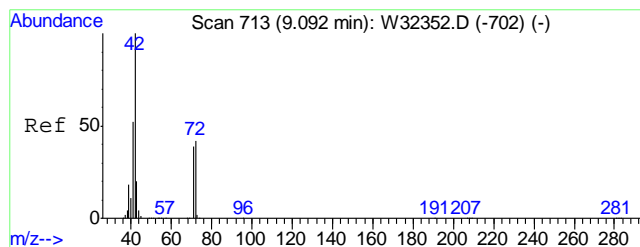


#30
METHYLENE CHLORIDE
Concen: 0.29 PPBV
RT: 6.867 min Scan# 348
Delta R.T. -0.006 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm



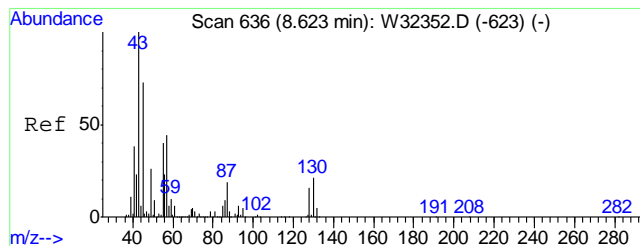
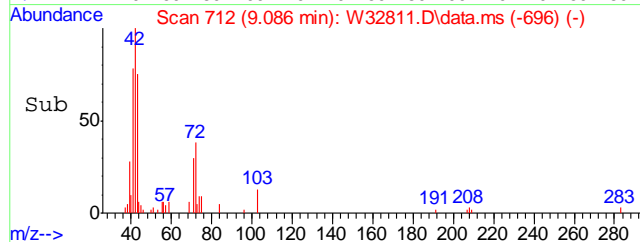
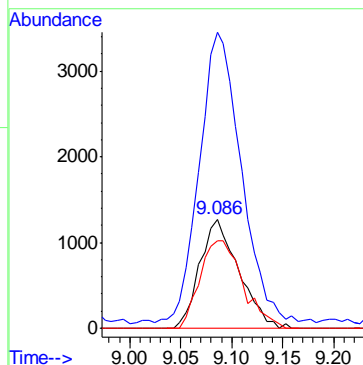
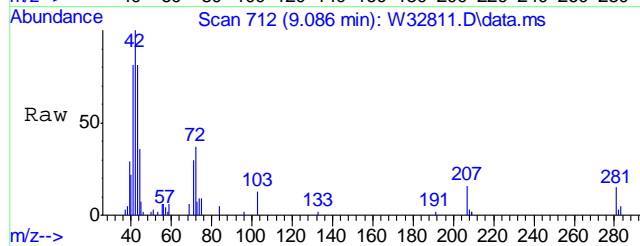
Tgt Ion: 84 Resp: 4111
Ion Ratio Lower Upper
84 100
86 63.9 42.9 82.9
49 105.4 0.0 324.2





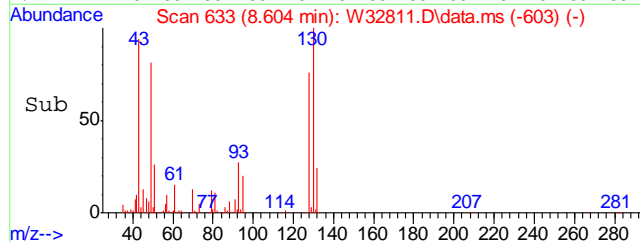
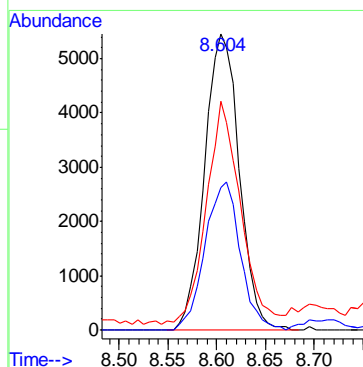
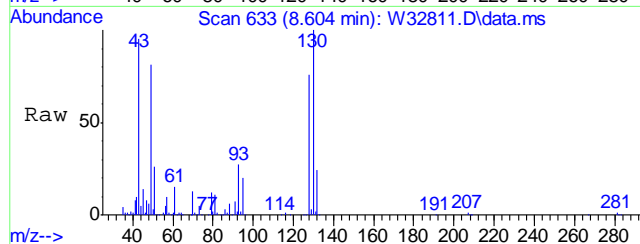
#36
TETRAHYDROFURAN
Concen: 0.49 PPBV
RT: 9.086 min Scan# 712
Delta R.T. -0.006 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

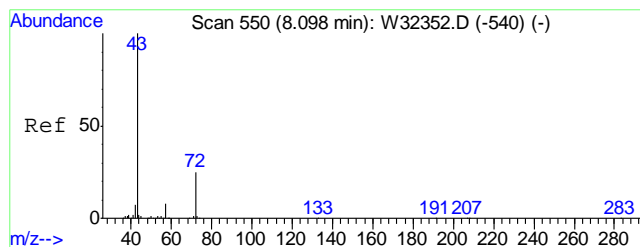
Tgt Ion: 72 Resp: 3358
Ion Ratio Lower Upper
72 100
42 289.0 220.0 260.0#
71 88.8 74.2 114.2



#37
HEXANE
Concen: 0.53 PPBV
RT: 8.604 min Scan# 633
Delta R.T. -0.018 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

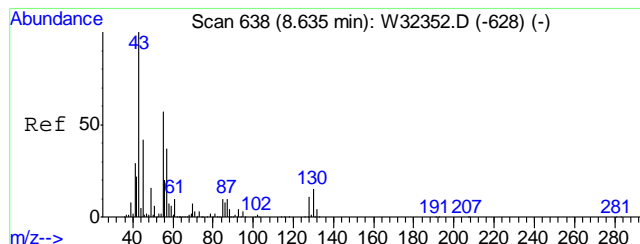
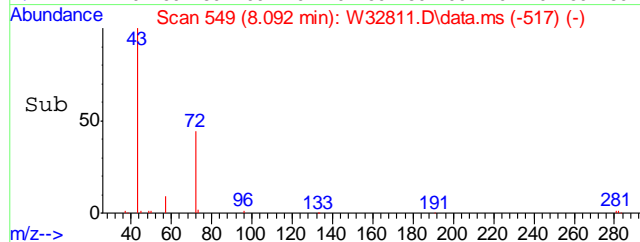
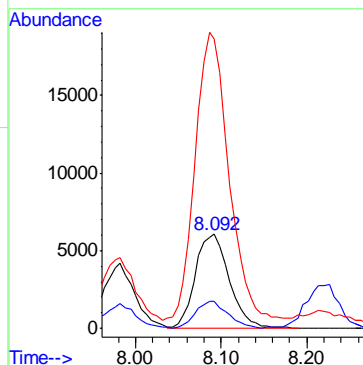
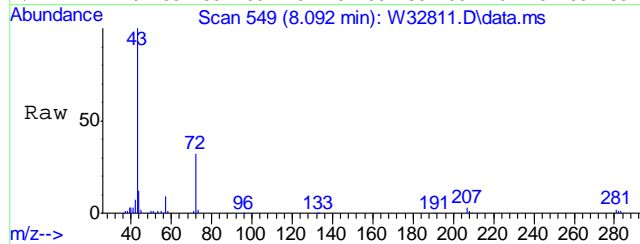
Tgt Ion: 57 Resp: 13426
Ion Ratio Lower Upper
57 100
56 51.1 33.7 73.7
41 74.5 74.5 114.5#





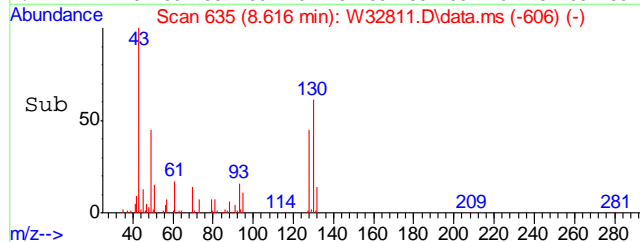
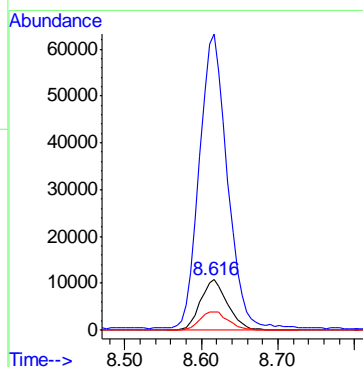
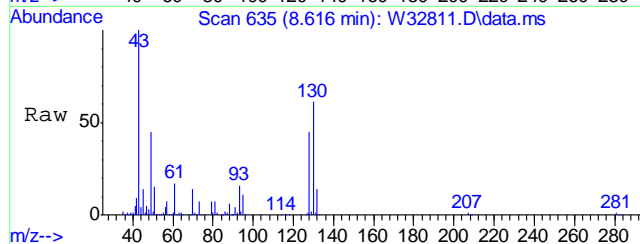
#40
METHYL ETHYL KETONE
Concen: 2.38 PPBV
RT: 8.092 min Scan# 549
Delta R.T. -0.006 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

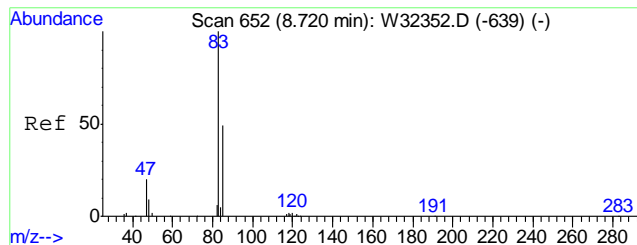
Tgt Ion: 72 Resp: 16723
Ion Ratio Lower Upper
72 100
57 29.0 11.1 51.1
43 308.7 386.1 426.1#



#43
ETHYL ACETATE
Concen: 5.84 PPBV
RT: 8.616 min Scan# 635
Delta R.T. -0.018 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

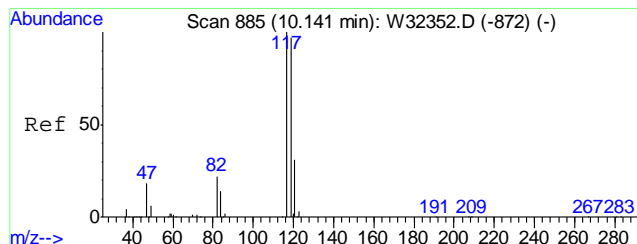
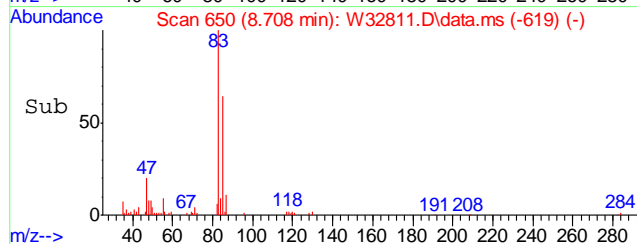
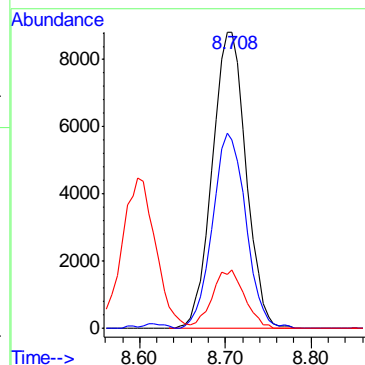
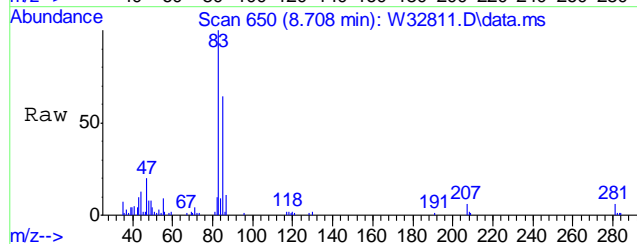
Tgt Ion: 61 Resp: 26578
Ion Ratio Lower Upper
61 100
43 601.3 1488.2 1528.2#
88 37.8 27.8 67.8





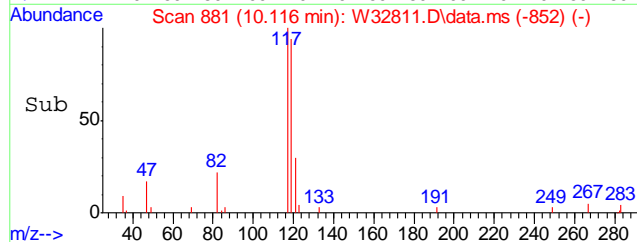
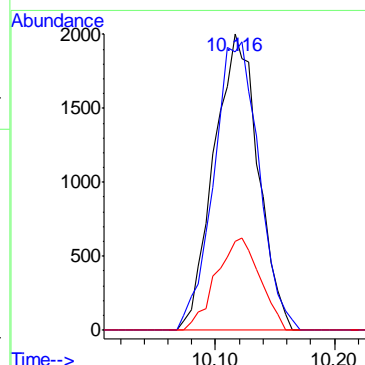
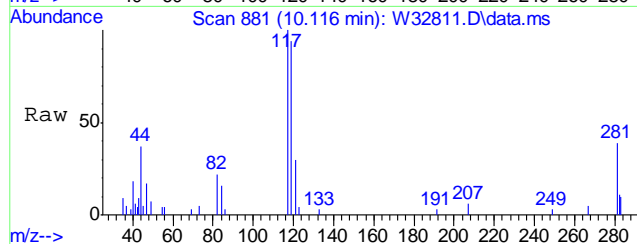
#45
CHLOROFORM
Concen: 0.88 PPBV
RT: 8.708 min Scan# 650
Delta R.T. -0.012 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

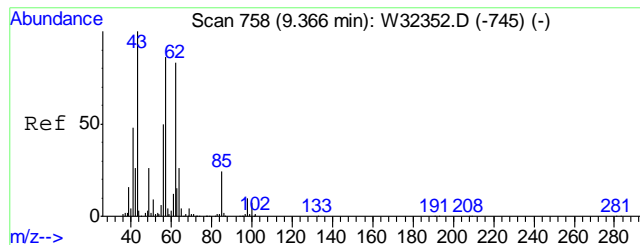
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	44.6	84.6
47	18.9	2.6	42.6



#48
CARBON TETRACHLORIDE
Concen: 0.19 PPBV
RT: 10.116 min Scan# 881
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

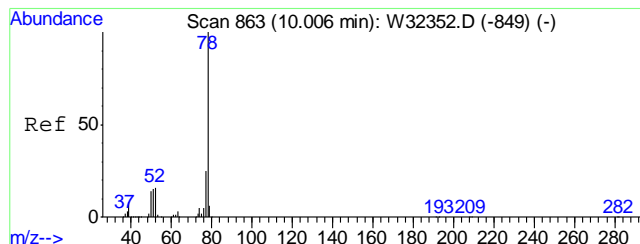
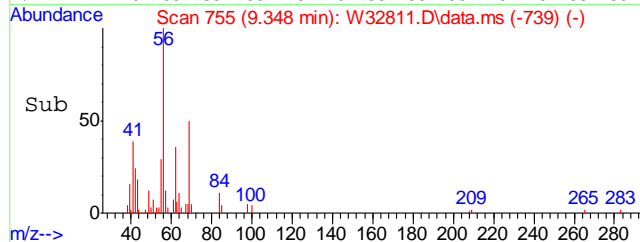
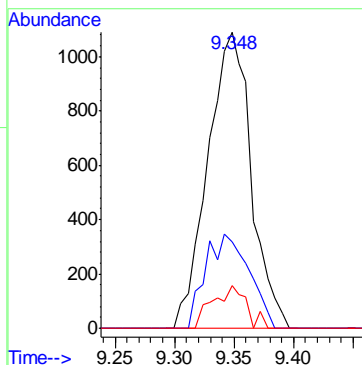
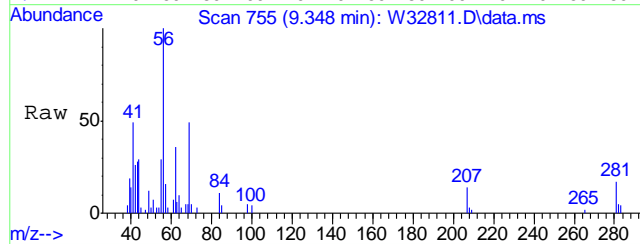
Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.6	76.5	116.5
121	30.8	10.8	50.8





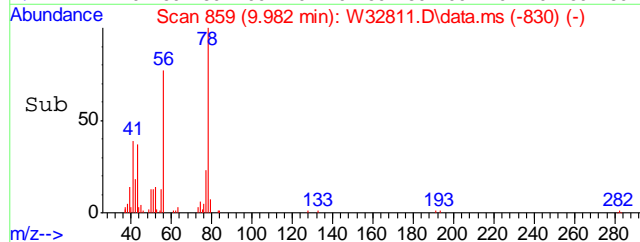
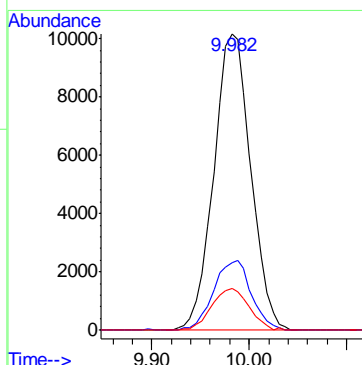
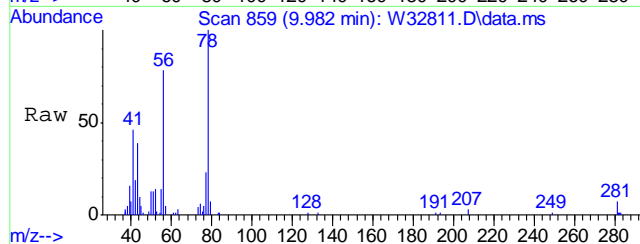
#49
1,2-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 9.348 min Scan# 755
Delta R.T. -0.018 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

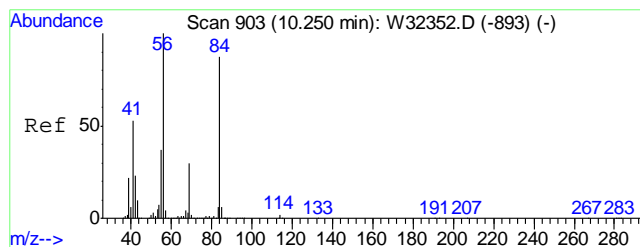
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.9	12.3	52.3
98	11.2	0.0	32.0



#51
BENZENE
Concen: 0.62 PPBV
RT: 9.982 min Scan# 859
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

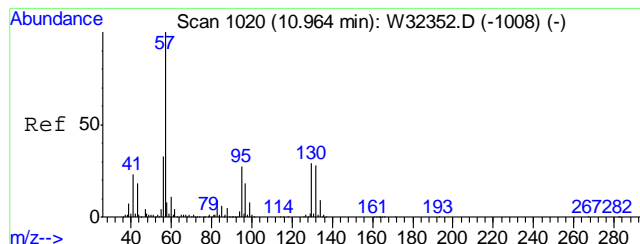
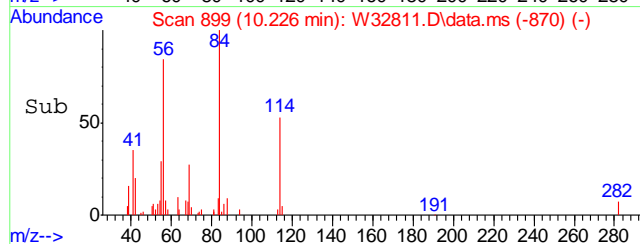
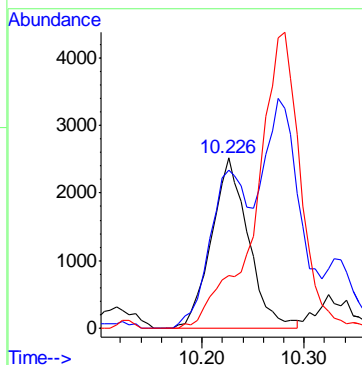
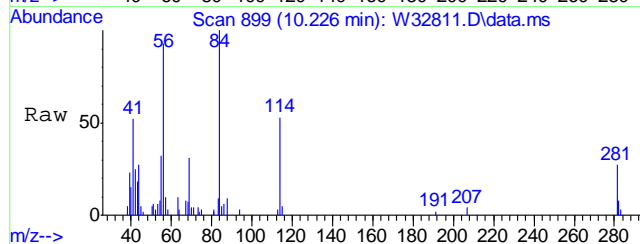
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	4.7	44.7
52	14.2	0.0	35.9





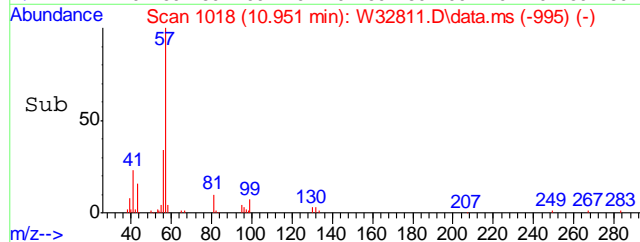
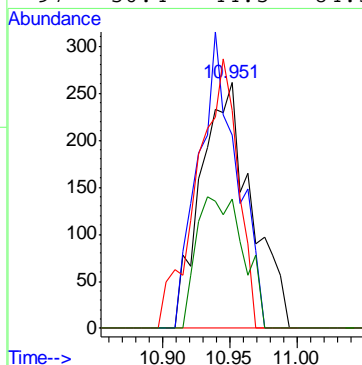
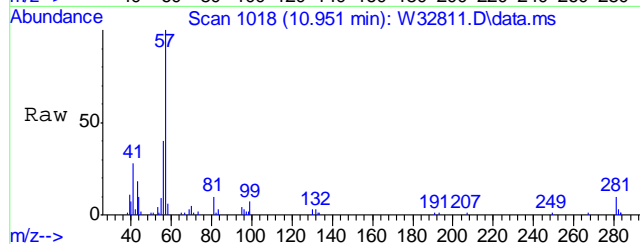
#52
CYCLOHEXANE
Concen: 0.29 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

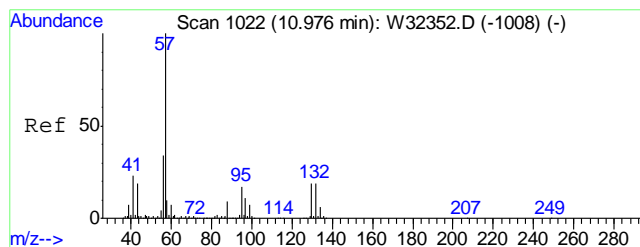
Tgt Ion	Ratio	Lower	Upper
84	100		
56	99.6	102.7	142.7#
69	0.0	20.8	60.8#



#54
TRICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 10.951 min Scan# 1018
Delta R.T. -0.012 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

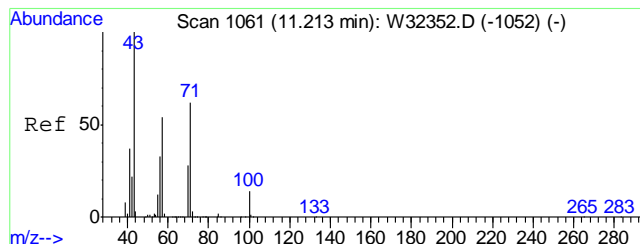
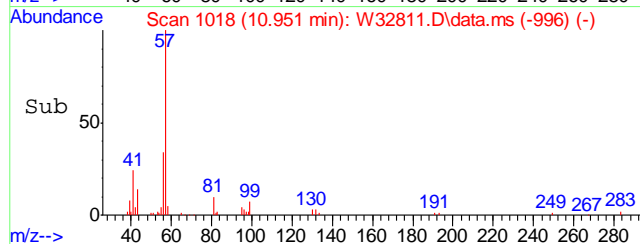
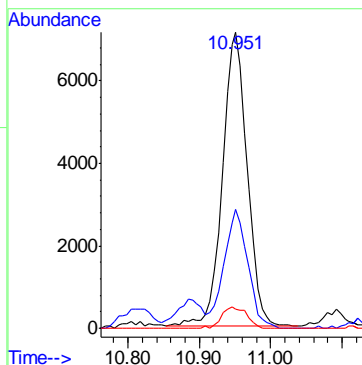
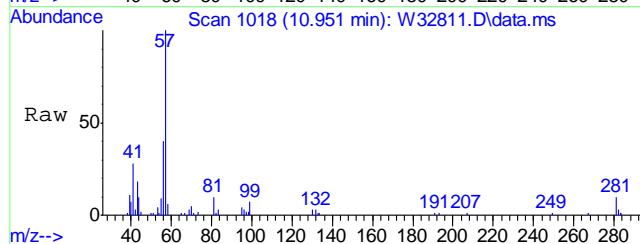
Tgt Ion	Ratio	Lower	Upper
95	100		
132	92.8	84.3	124.3
130	89.4	88.4	128.4
97	50.4	44.5	84.5





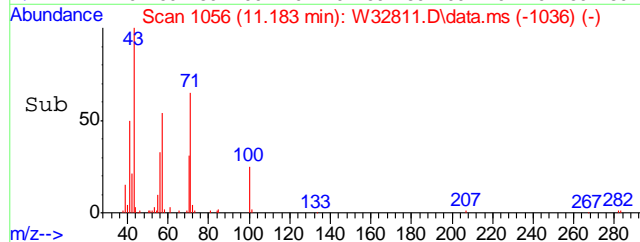
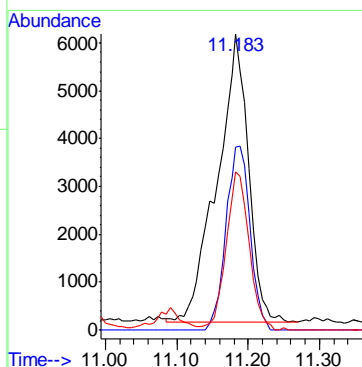
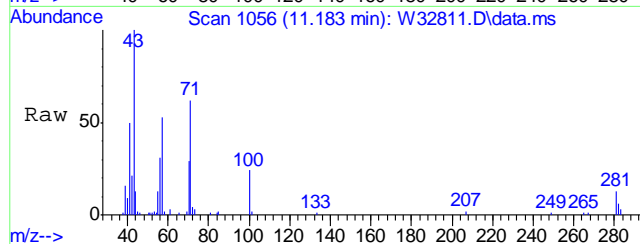
#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.23 PPBV
RT: 10.951 min Scan# 1018
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

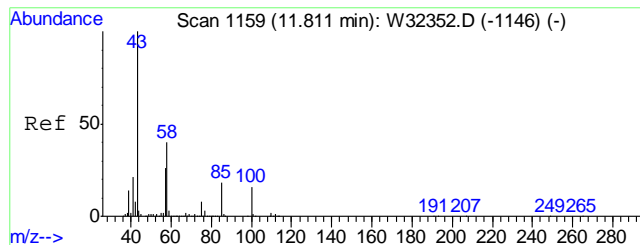
Tgt Ion	Ratio	Lower	Upper
57	100		
56	39.5	13.5	53.5
99	7.5	0.0	27.7



#62
HEPTANE
Concen: 0.66 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

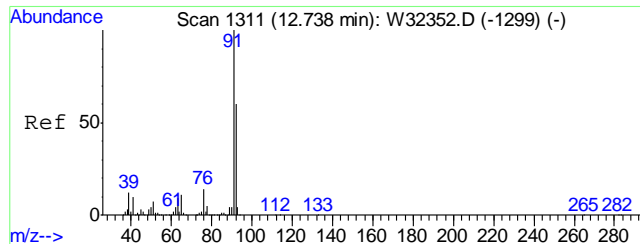
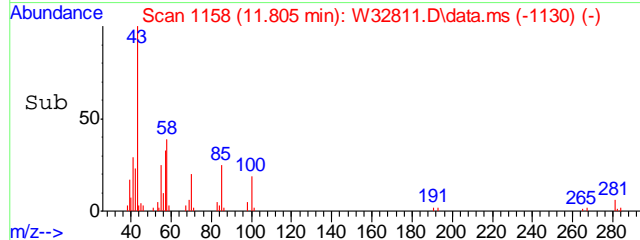
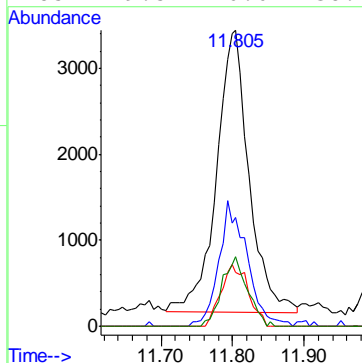
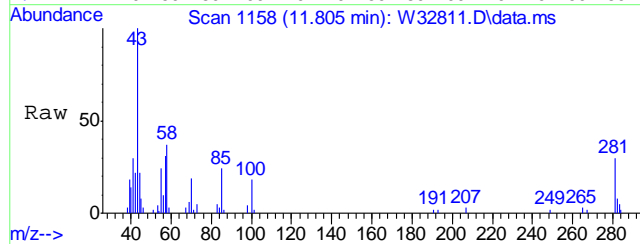
Tgt Ion	Ratio	Lower	Upper
43	100		
71	49.1	41.6	81.6
57	40.6	34.6	74.6





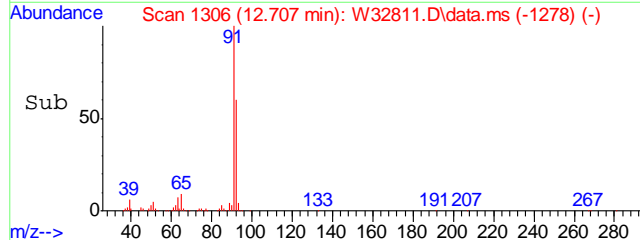
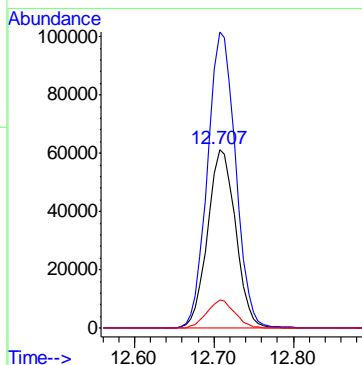
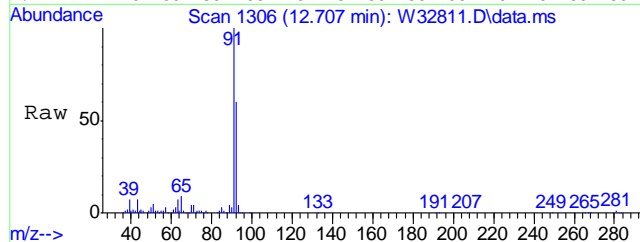
#64
METHYL ISOBUTYL KETONE
Concen: 0.34 PPBV
RT: 11.805 min Scan# 1158
Delta R.T. -0.006 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

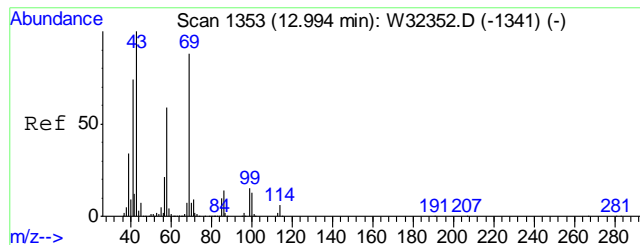
Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.7	20.7	60.7
100	18.4	0.0	36.0
85	19.5	0.0	38.1



#66
TOLUENE
Concen: 5.13 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.031 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

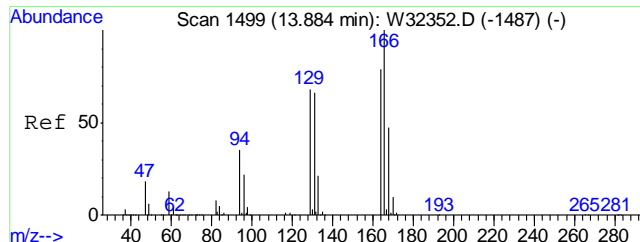
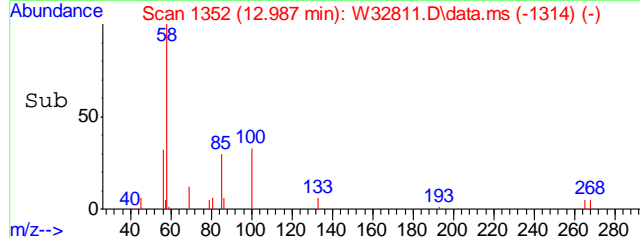
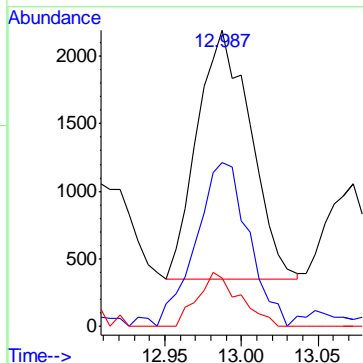
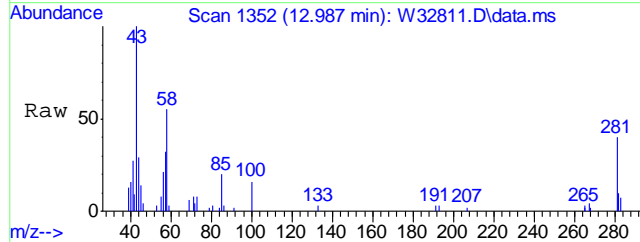
Tgt Ion	Ratio	Lower	Upper
92	100		
91	166.8	146.2	186.2
65	15.7	0.4	40.4





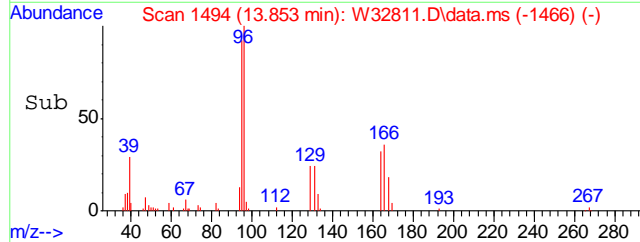
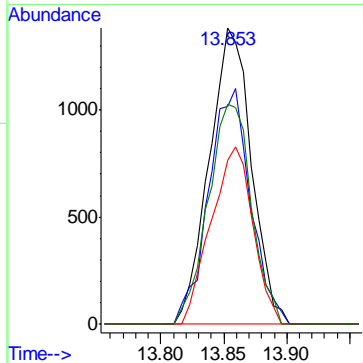
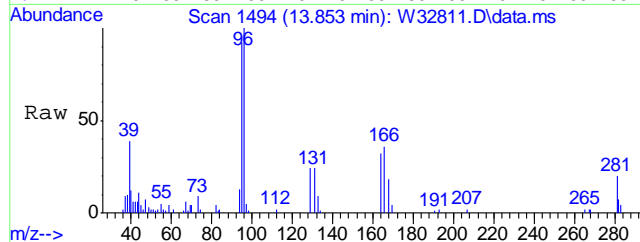
#71
2-HEXANONE
Concen: 0.19 PPBV
RT: 12.987 min Scan# 1352
Delta R.T. -0.006 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

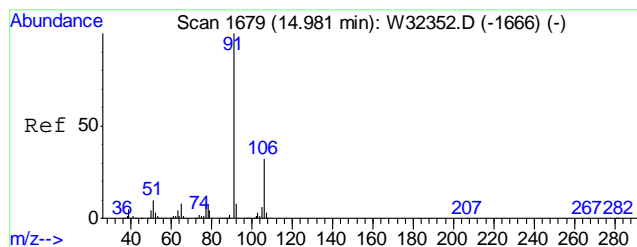
Tgt Ion: 43 Resp: 4470
Ion Ratio Lower Upper
43 100
58 65.8 39.4 79.4
100 17.1 0.0 33.6



#72
TETRACHLOROETHYLENE
Concen: 0.20 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.031 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

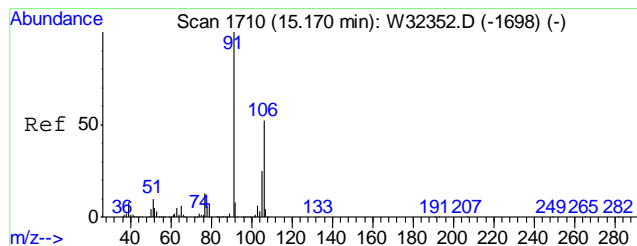
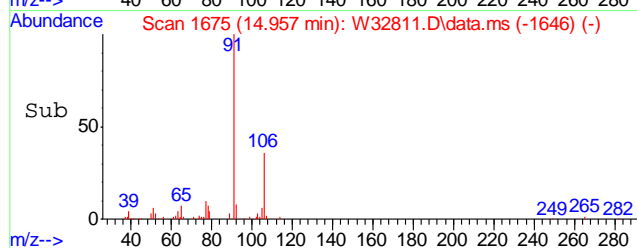
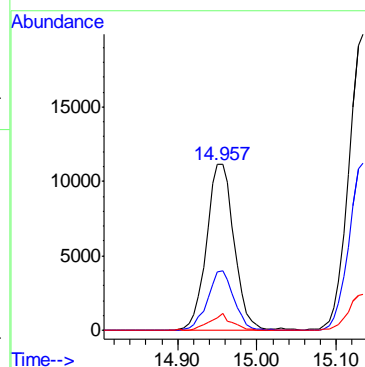
Tgt Ion: 164 Resp: 3215
Ion Ratio Lower Upper
164 100
129 79.0 66.3 106.3
168 59.1 41.0 81.0
131 76.3 63.5 103.5





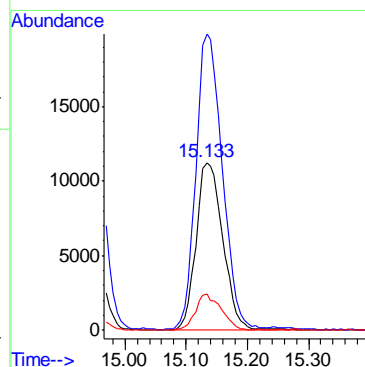
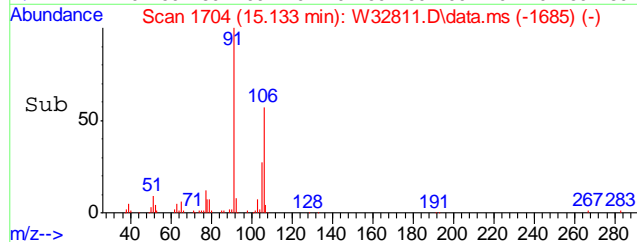
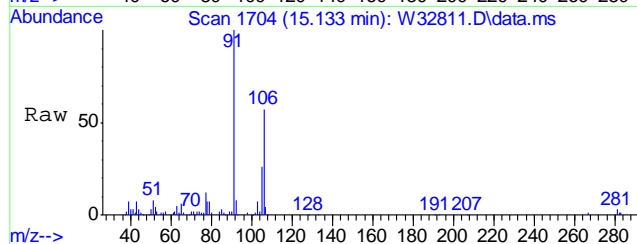
#78
ETHYLBENZENE
Concen: 0.56 PPBV
RT: 14.957 min Scan# 1675
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

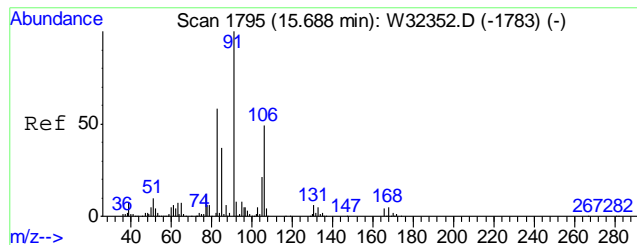
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.9	11.7	51.7
77	7.7	0.0	28.1



#79
m,p-XYLENE
Concen: 1.83 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

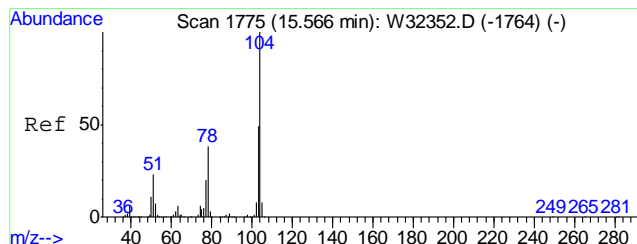
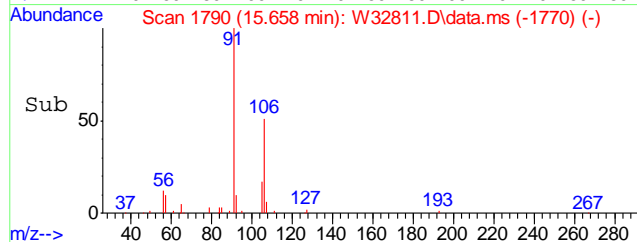
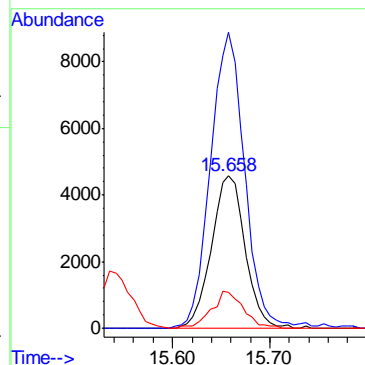
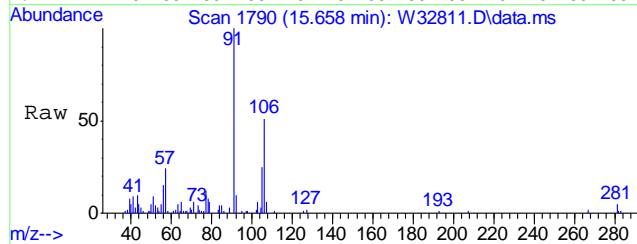
Tgt Ion	Ratio	Lower	Upper
106	100		
91	176.8	152.6	228.8
77	21.5	19.9	29.9





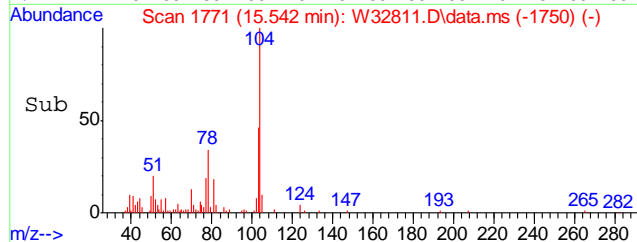
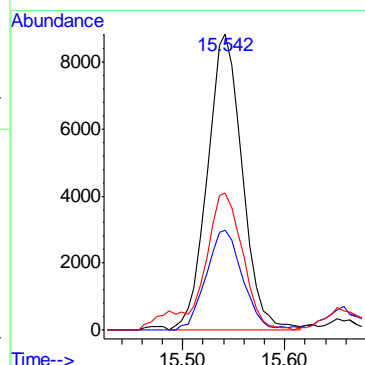
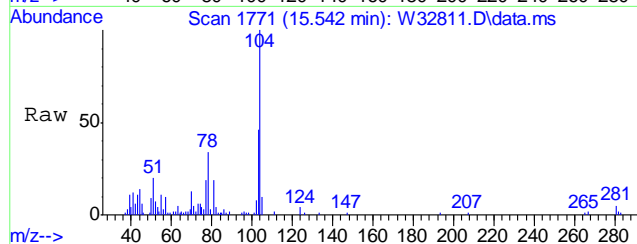
#80
o-XYLENE
Concen: 0.61 PPBV
RT: 15.658 min Scan# 1790
Delta R.T. -0.031 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

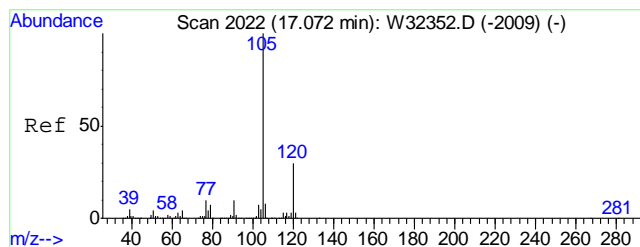
Tgt Ion	Ratio	Lower	Upper
106	100		
91	195.1	182.1	222.1
77	23.0	4.0	44.0



#81
STYRENE
Concen: 0.82 PPBV
RT: 15.542 min Scan# 1771
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

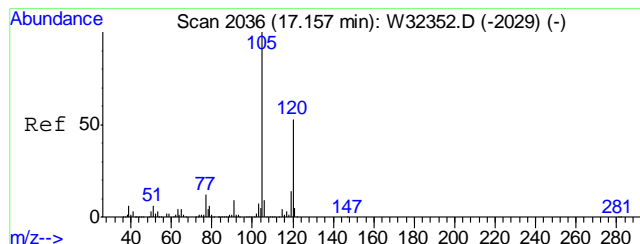
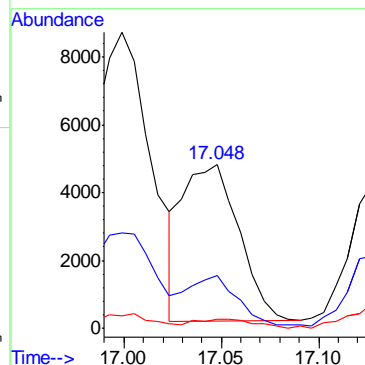
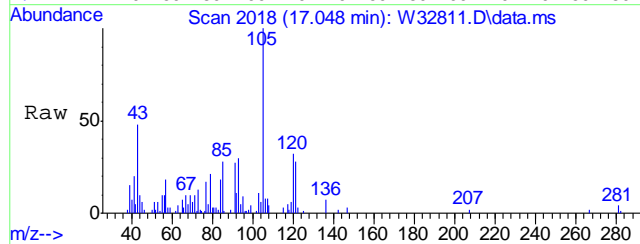
Tgt Ion	Ratio	Lower	Upper
104	100		
78	35.2	18.2	58.2
103	48.5	28.2	68.2





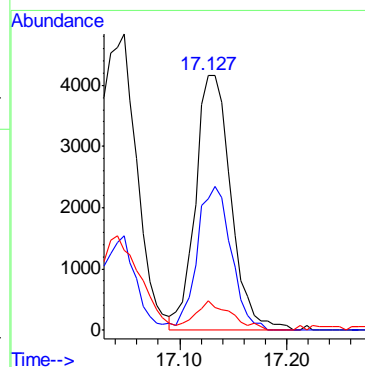
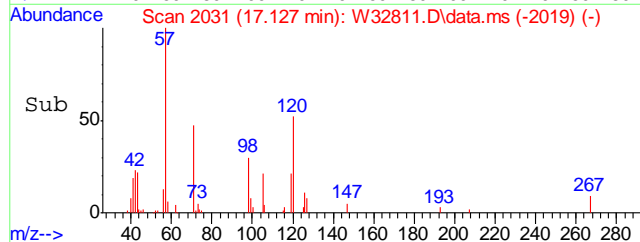
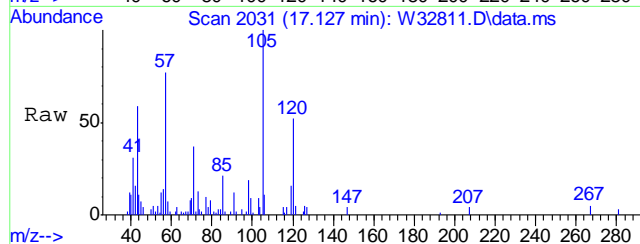
#91
4-ETHYLTOLUENE
Concen: 0.22 PPBV
RT: 17.048 min Scan# 2018
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

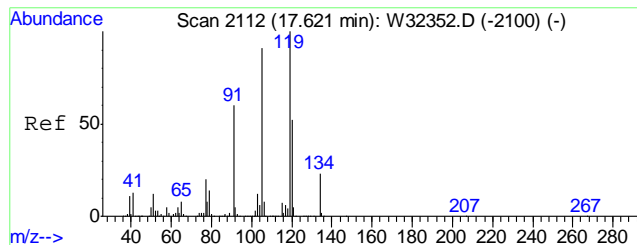
Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.2	9.8	49.8
119	6.3	0.0	22.9



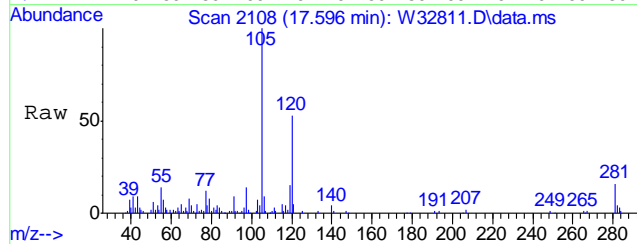
#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.27 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.031 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.6	32.9	72.9
91	11.5	0.0	29.3

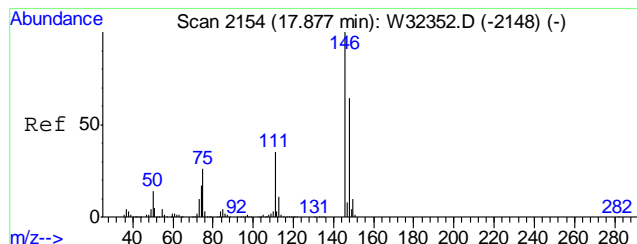
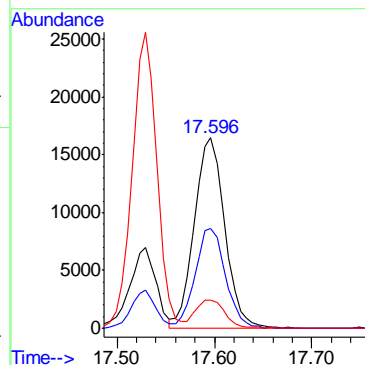
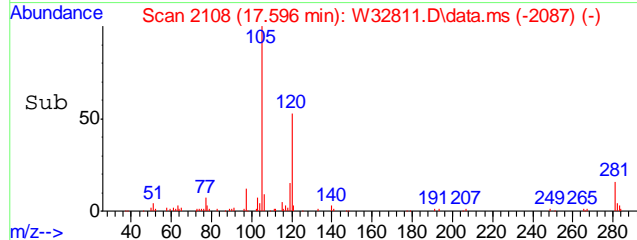




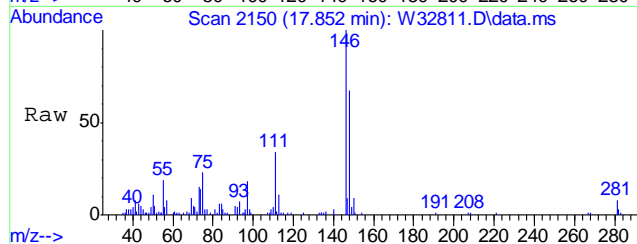
#95
1,2,4-TRIMETHYLBENZENE
Concen: 1.12 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm



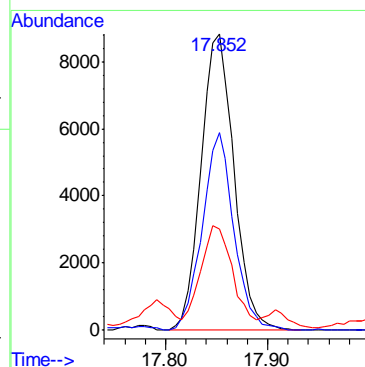
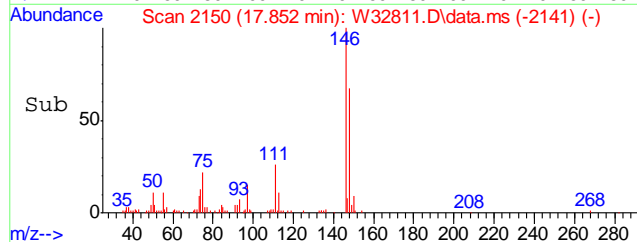
Tgt Ion:105 Resp: 35582
Ion Ratio Lower Upper
105 100
120 52.4 39.3 79.3
119 15.0 101.1 141.1#

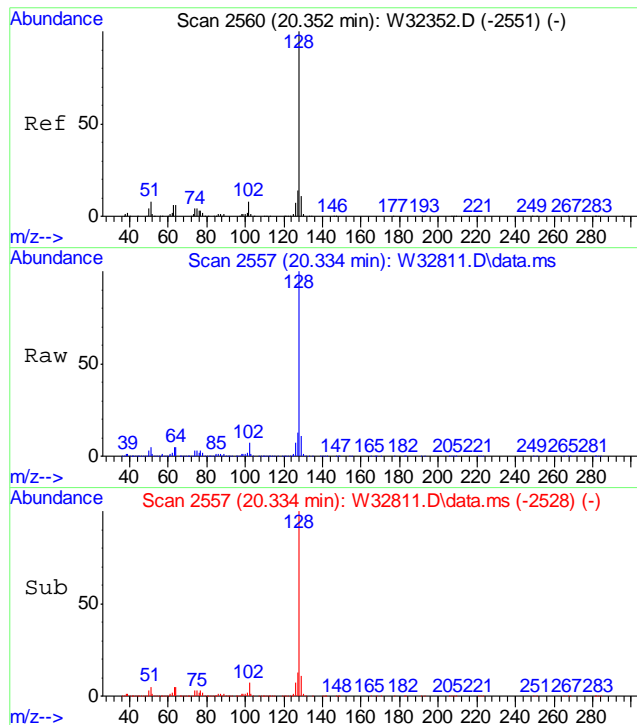


#98
p-DICHLOROBENZENE
Concen: 1.06 PPBV
RT: 17.852 min Scan# 2150
Delta R.T. -0.024 min
Lab File: W32811.D
Acq: 20 Jul 2011 4:50 pm



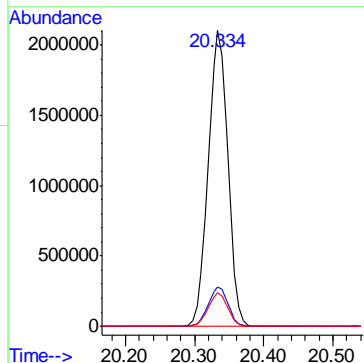
Tgt Ion:146 Resp: 19768
Ion Ratio Lower Upper
146 100
148 63.8 43.6 83.6
111 30.9 15.4 55.4





#107
 NAPHTHALENE
 Concen: 580.95 PPBV
 RT: 20.334 min Scan# 2557
 Delta R.T. -0.018 min
 Lab File: W32811.D
 Acq: 20 Jul 2011 4:50 pm

Tgt Ion:	128	Resp:	4157801
Ion Ratio	Lower	Upper	
128	100		
127	13.4	0.0	34.3
129	11.1	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
 Data File : W32833.D
 Acq On : 21 Jul 2011 12:53 pm
 Operator : YOUMINH
 Sample : JA81330-5
 Misc : MS15514,VW1342,40,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 00:26:33 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

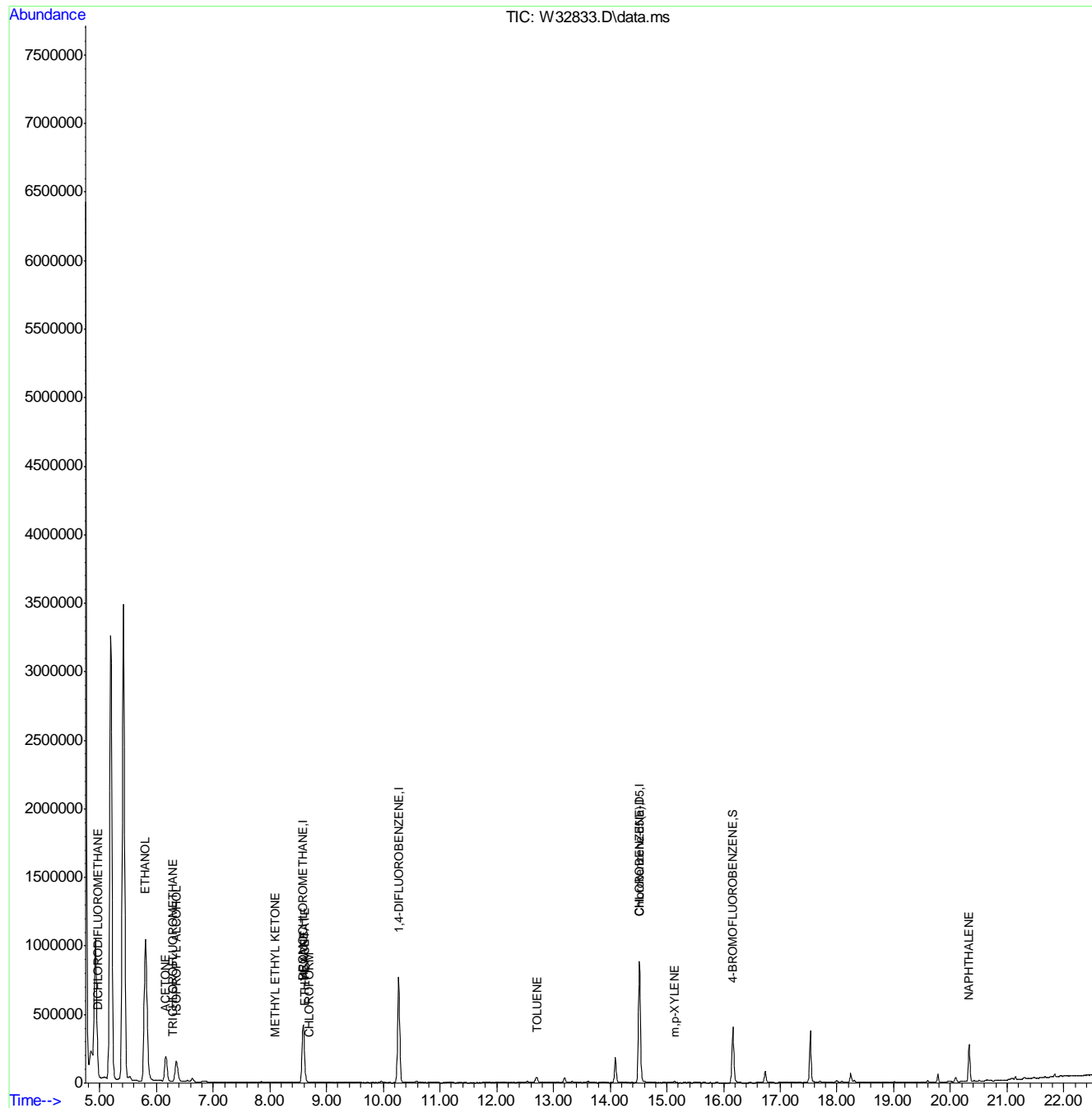
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.586	128	168155	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.269	114	884260	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.518	82	414296	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	409887	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	201973	4.51	PPBV	-0.03
Spiked Amount	5.000	Range 65 - 128	Recovery	=	90.20%	
Target Compounds						
						Qvalue
5) DICHLORODIFLUOROMETHANE	4.965	85	11487	0.23	PPBV	97
18) TRICHLOROFLUOROMETHANE	6.288	101	5478	0.12	PPBV	95
19) ISOPROPYL ALCOHOL	6.349	45	348982	8.52	PPBV	99
20) ACETONE	6.160	58	106284	9.88	PPBV	100
27) ETHANOL	5.806	45	2232407	207.45	PPBV	98
37) HEXANE	8.592	57	4848	0.13	PPBV	89
40) METHYL ETHYL KETONE	8.098	72	2726	0.27	PPBV #	78
43) ETHYL ACETATE	8.610	61	4932	0.76	PPBV #	1
45) CHLOROFORM	8.696	83	3848	0.10	PPBV	94
66) TOLUENE	12.707	92	21414	0.47	PPBV	99
79) m,p-XYLENE	15.134	106	3880	0.12	PPBV	96
107) NAPHTHALENE	20.328	128	261975	21.34	PPBV	98

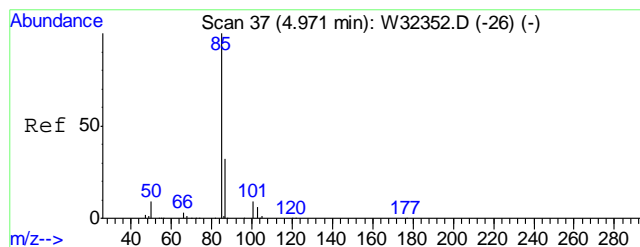
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
Data File : W32833.D
Acq On : 21 Jul 2011 12:53 pm
Operator : YOUMINH
Sample : JA81330-5
Misc : MS15514,VW1342,40,,,,,1
ALS Vial : 6 Sample Multiplier: 1

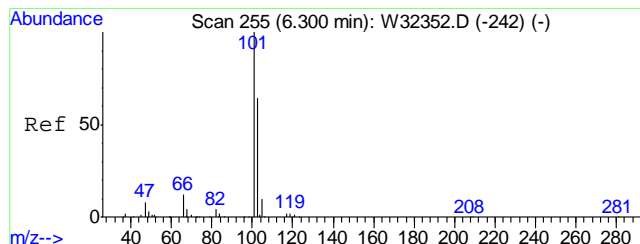
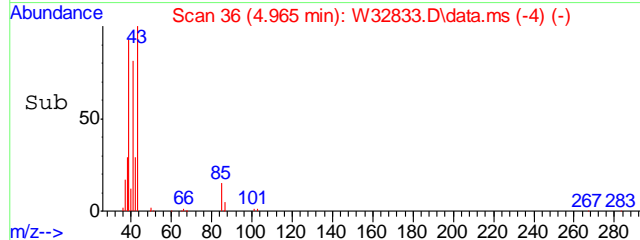
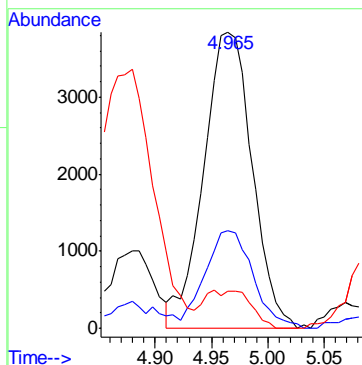
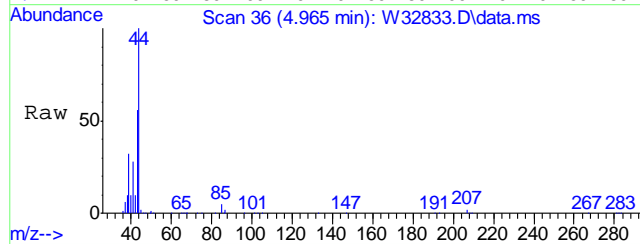
Quant Time: Aug 17 00:26:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





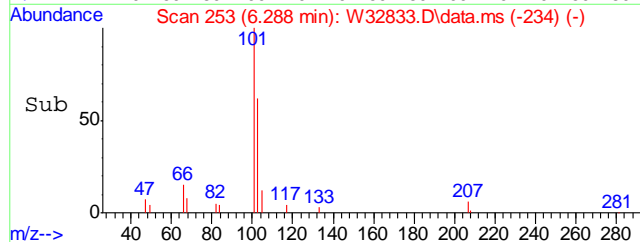
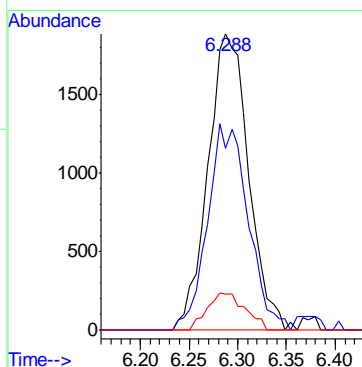
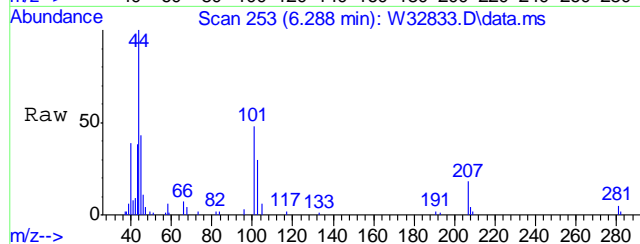
#5
DICHLORODIFLUOROMETHANE
Concen: 0.23 PPBV
RT: 4.965 min Scan# 36
Delta R.T. -0.006 min
Lab File: W32833.D
Acq: 21 Jul 2011 12:53 pm

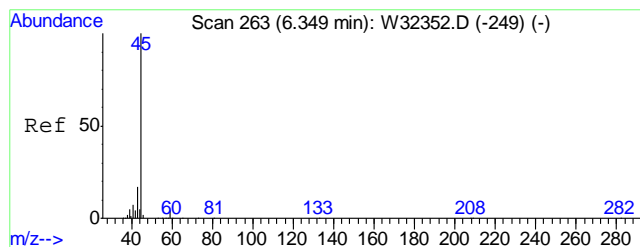
Tgt Ion:	85	Resp:	11487
Ion Ratio	Lower	Upper	
85	100		
87	32.5	12.0	52.0
50	6.9	0.0	30.7



#18
TRICHLOROFLUOROMETHANE
Concen: 0.12 PPBV
RT: 6.288 min Scan# 253
Delta R.T. -0.012 min
Lab File: W32833.D
Acq: 21 Jul 2011 12:53 pm

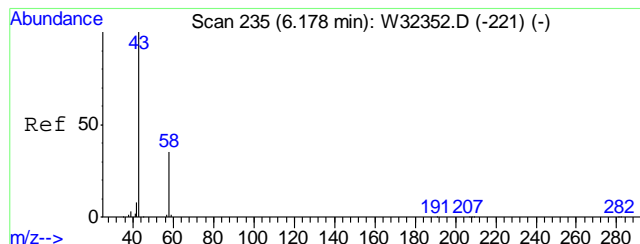
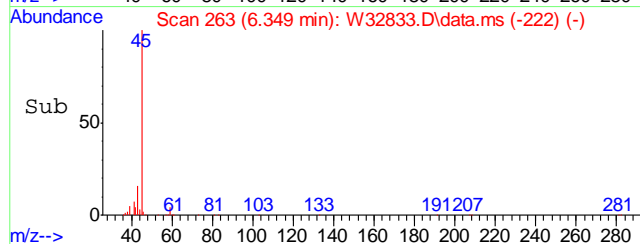
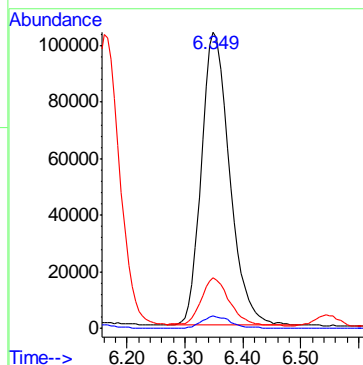
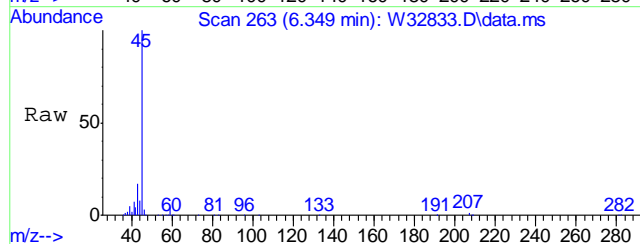
Tgt Ion:	101	Resp:	5478
Ion Ratio	Lower	Upper	
101	100		
103	69.1	44.9	84.9
105	11.6	0.0	30.4





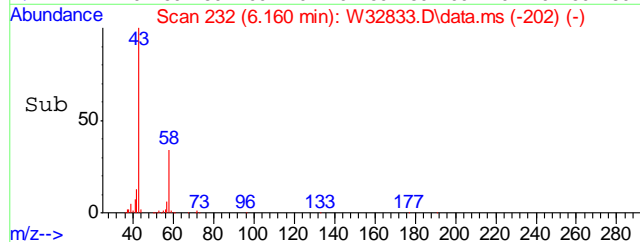
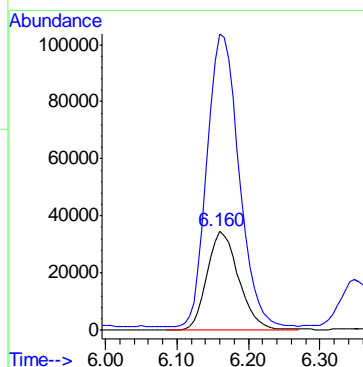
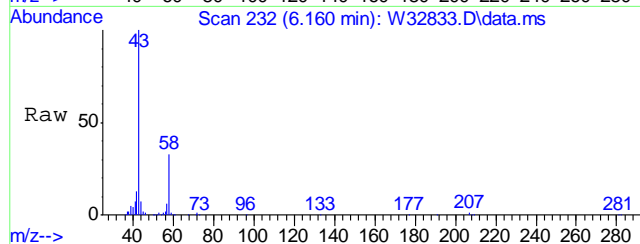
#19
ISOPROPYL ALCOHOL
Concen: 8.52 PPBV
RT: 6.349 min Scan# 263
Delta R.T. 0.000 min
Lab File: W32833.D
Acq: 21 Jul 2011 12:53 pm

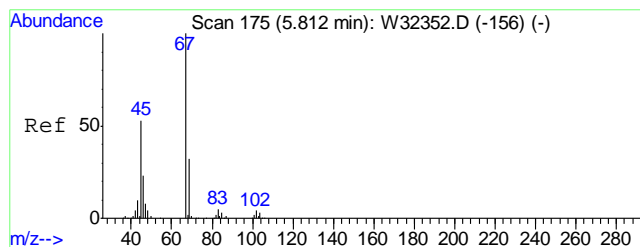
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.3	0.0	24.3
43	16.9	0.0	37.5



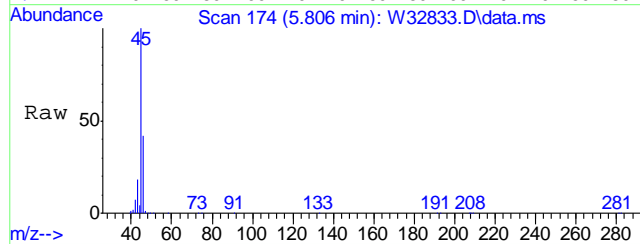
#20
ACETONE
Concen: 9.88 PPBV
RT: 6.160 min Scan# 232
Delta R.T. -0.018 min
Lab File: W32833.D
Acq: 21 Jul 2011 12:53 pm

Tgt Ion	Ratio	Lower	Upper
58	100		
43	298.3	277.6	317.6



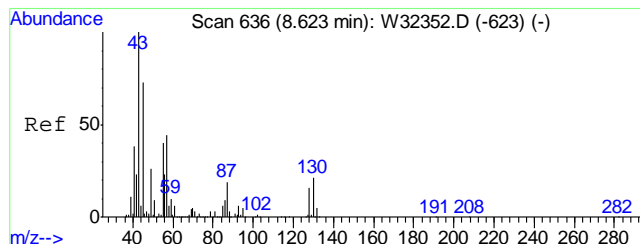
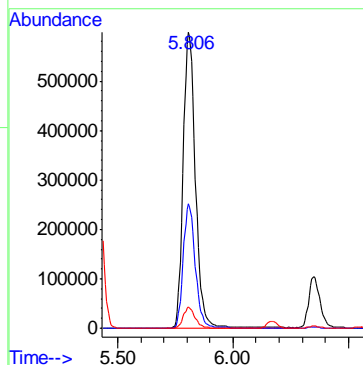
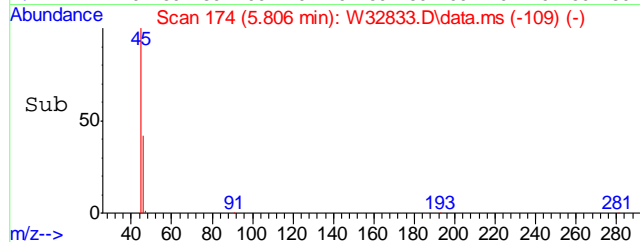


#27
 ETHANOL
 Concen: 207.45 PPBV
 RT: 5.806 min Scan# 174
 Delta R.T. -0.006 min
 Lab File: W32833.D
 Acq: 21 Jul 2011 12:53 pm

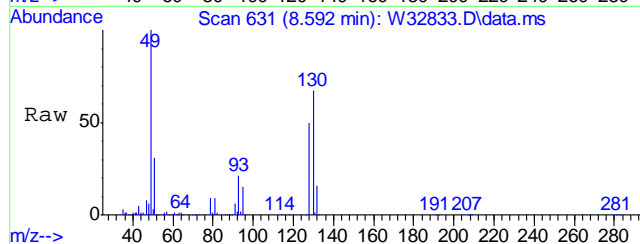


Tgt Ion: 45 Resp: 2232407

Ion	Ratio	Lower	Upper
45	100		
46	41.2	20.6	60.6
42	6.7	0.0	28.7

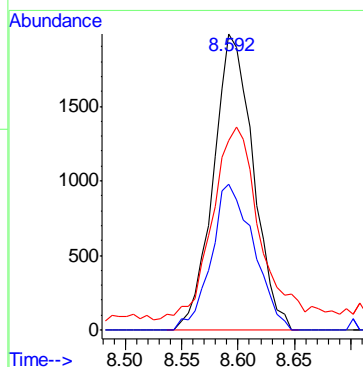
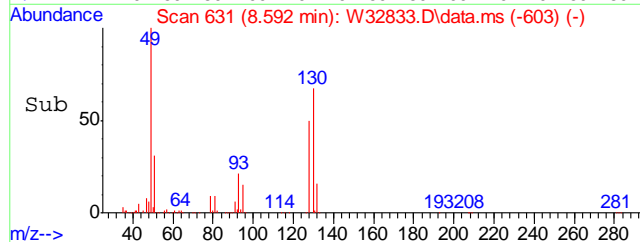


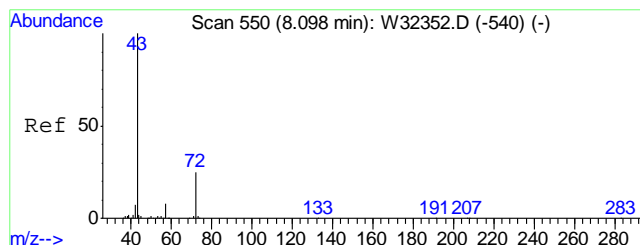
#37
 HEXANE
 Concen: 0.13 PPBV
 RT: 8.592 min Scan# 631
 Delta R.T. -0.030 min
 Lab File: W32833.D
 Acq: 21 Jul 2011 12:53 pm



Tgt Ion: 57 Resp: 4848

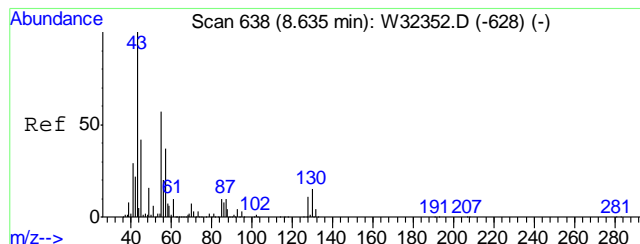
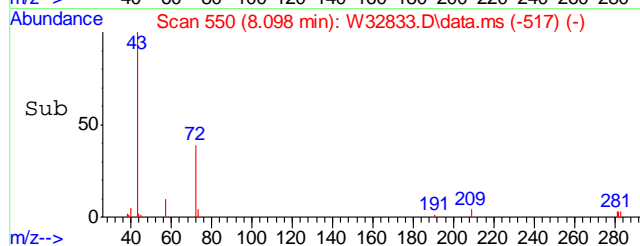
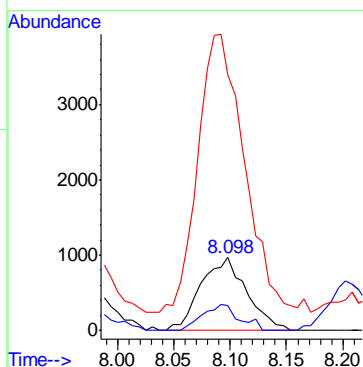
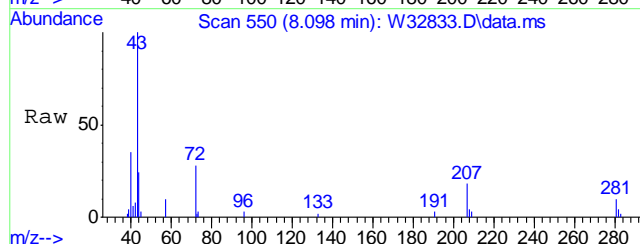
Ion	Ratio	Lower	Upper
57	100		
56	52.8	33.7	73.7
41	78.3	74.5	114.5





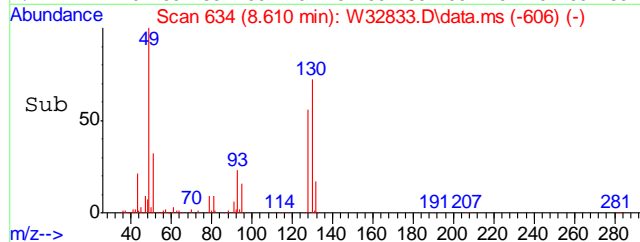
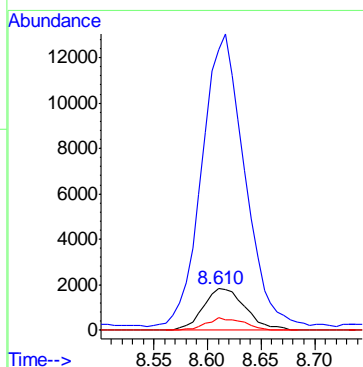
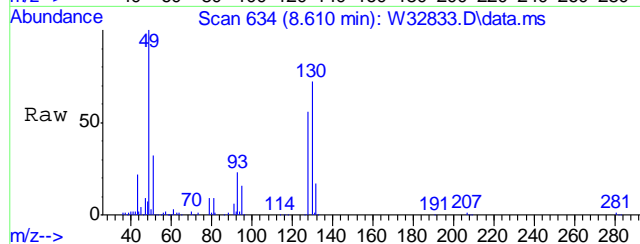
#40
METHYL ETHYL KETONE
Concen: 0.27 PPBV
RT: 8.098 min Scan# 550
Delta R.T. 0.000 min
Lab File: W32833.D
Acq: 21 Jul 2011 12:53 pm

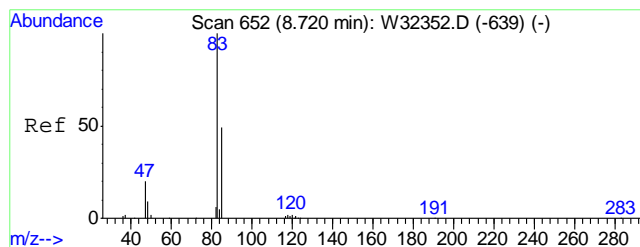
Tgt Ion: 72 Resp: 2726
Ion Ratio Lower Upper
72 100
57 33.7 11.1 51.1
43 351.2 386.1 426.1#



#43
ETHYL ACETATE
Concen: 0.76 PPBV
RT: 8.610 min Scan# 634
Delta R.T. -0.024 min
Lab File: W32833.D
Acq: 21 Jul 2011 12:53 pm

Tgt Ion: 61 Resp: 4932
Ion Ratio Lower Upper
61 100
43 721.6 1488.2 1528.2#
88 25.9 27.8 67.8#





#45

CHLOROFORM

Concen: 0.10 PPBV

RT: 8.696 min Scan# 648

Delta R.T. -0.024 min

Lab File: W32833.D

Acq: 21 Jul 2011 12:53 pm

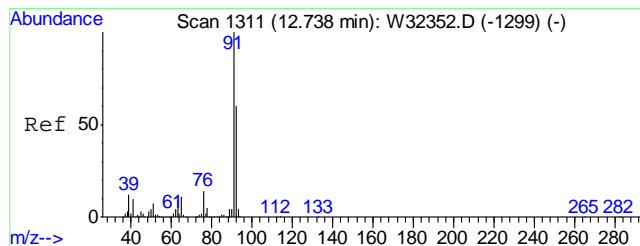
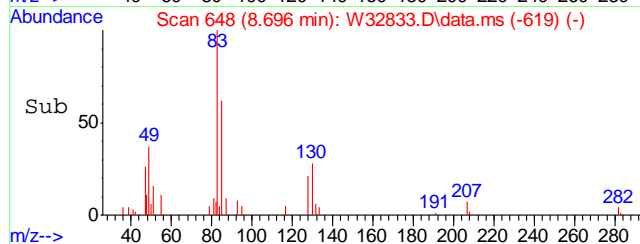
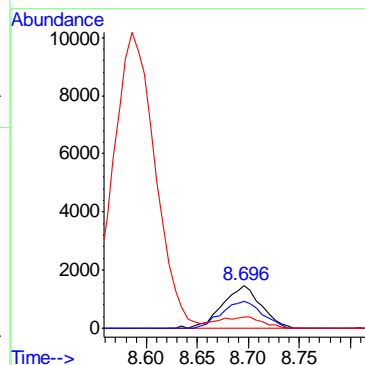
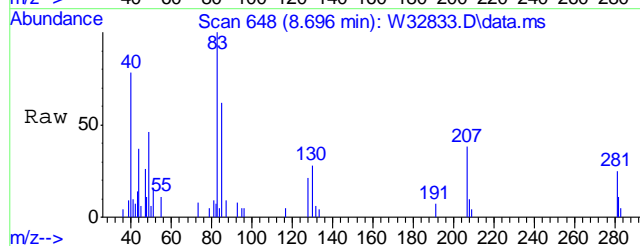
Tgt Ion: 83 Resp: 3848

Ion Ratio Lower Upper

83 100

85 65.8 44.6 84.6

47 32.1 2.6 42.6



#66

TOLUENE

Concen: 0.47 PPBV

RT: 12.707 min Scan# 1306

Delta R.T. -0.030 min

Lab File: W32833.D

Acq: 21 Jul 2011 12:53 pm

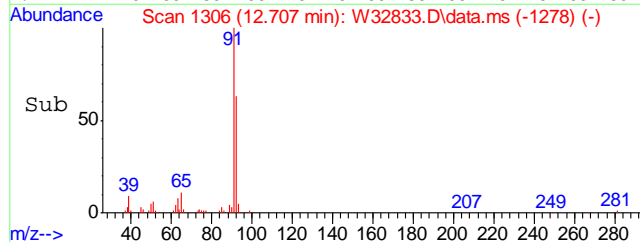
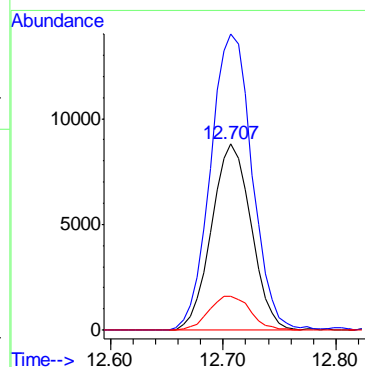
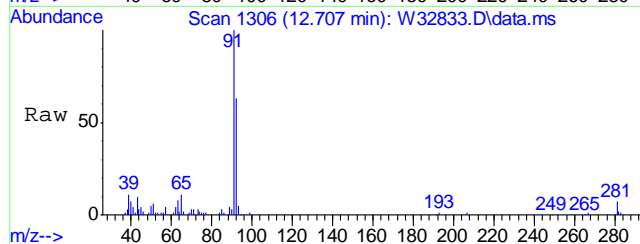
Tgt Ion: 92 Resp: 21414

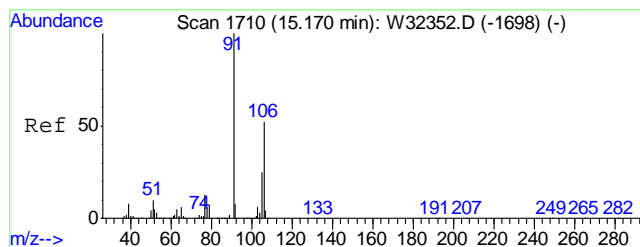
Ion Ratio Lower Upper

92 100

91 167.2 146.2 186.2

65 19.1 0.4 40.4





#79

m,p-XYLENE

Concen: 0.12 PPBV

RT: 15.134 min Scan# 1704

Delta R.T. -0.037 min

Lab File: W32833.D

Acq: 21 Jul 2011 12:53 pm

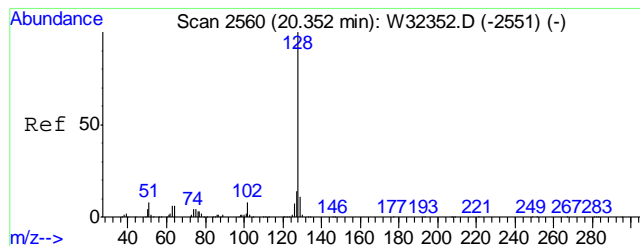
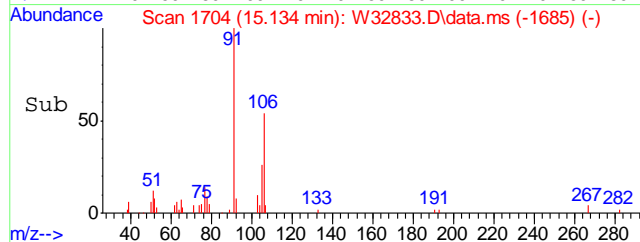
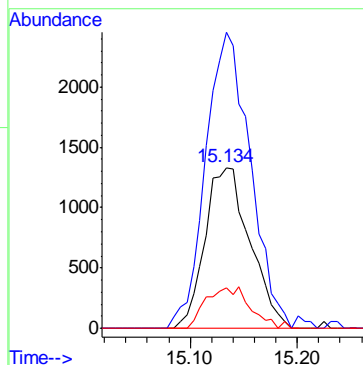
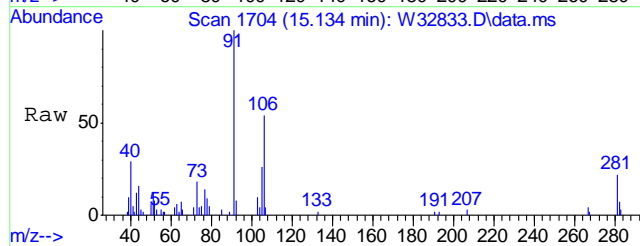
Tgt Ion: 106 Resp: 3880

Ion Ratio Lower Upper

106 100

91 184.5 152.6 228.8

77 25.0 19.9 29.9



#107

NAPHTHALENE

Concen: 21.34 PPBV

RT: 20.328 min Scan# 2556

Delta R.T. -0.024 min

Lab File: W32833.D

Acq: 21 Jul 2011 12:53 pm

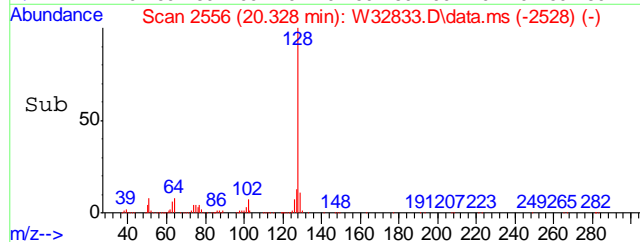
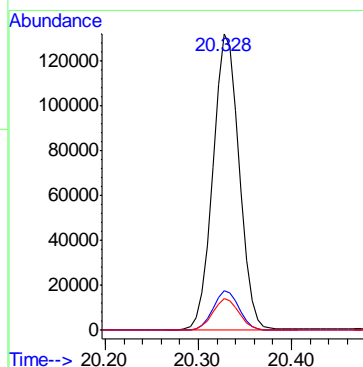
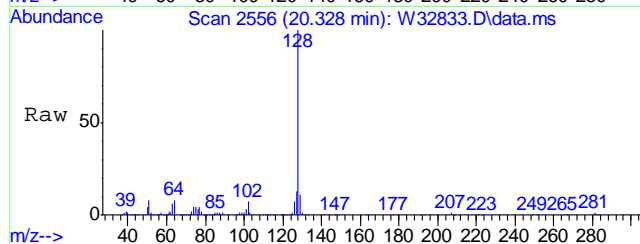
Tgt Ion: 128 Resp: 261975

Ion Ratio Lower Upper

128 100

127 13.2 0.0 34.3

129 10.7 0.0 30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32813.D
 Acq On : 20 Jul 2011 6:12 pm
 Operator : YOU MINH
 Sample : JA81330-6
 Misc : MS15514,VW1341,400,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 00:25:13 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

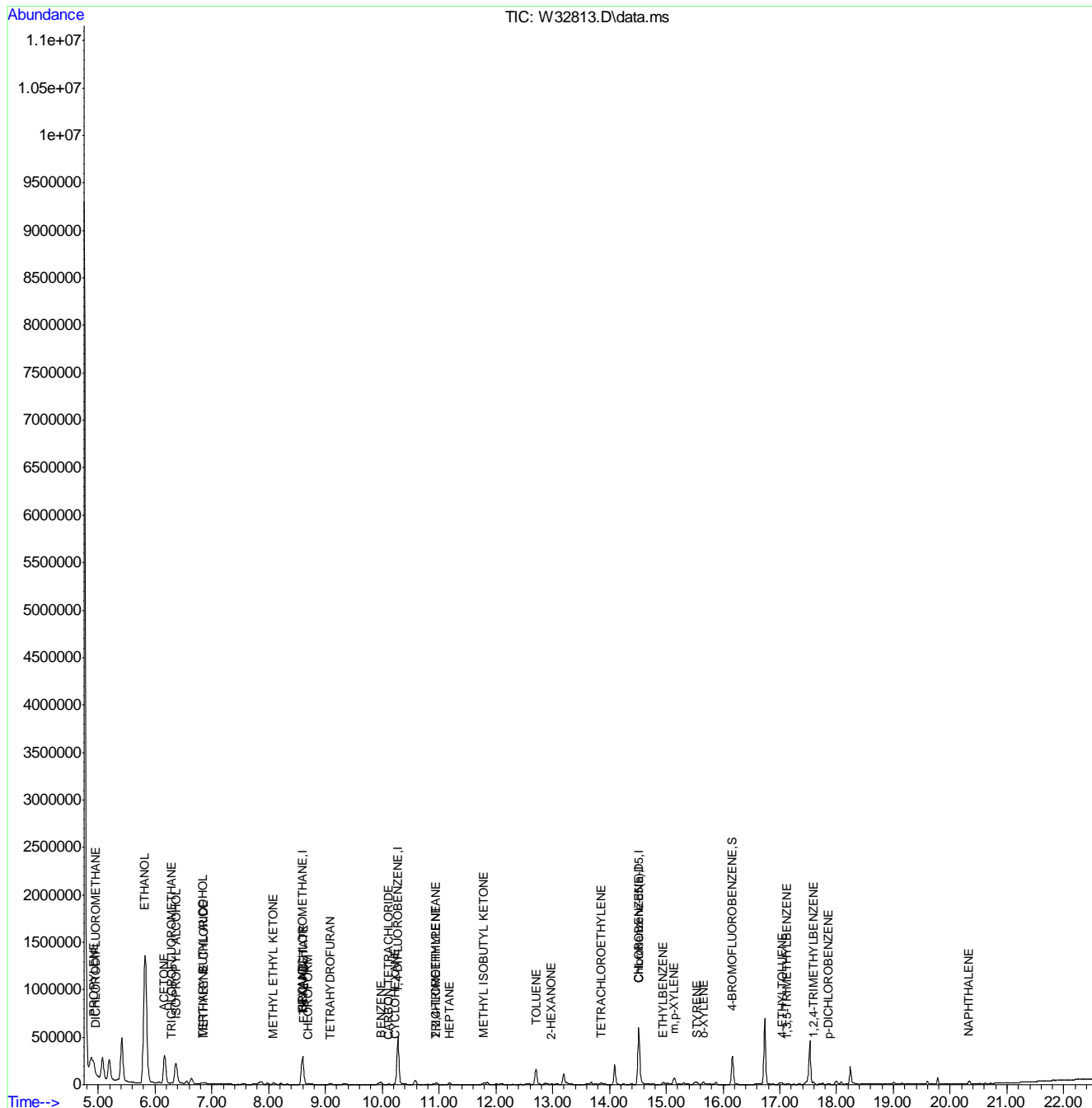
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	132095	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	629032	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	265389	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	263082	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	144484	5.04	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	100.80%
Target Compounds						
					Qvalue	
5) DICHLORODIFLUOROMETHANE	4.959	85	17965	0.46	PPBV	97
6) PROPYLENE	4.916	41	72917	4.42	PPBV #	73
18) TRICHLOROFLUOROMETHANE	6.294	101	10663	0.29	PPBV	98
19) ISOPROPYL ALCOHOL	6.367	45	486347	15.11	PPBV	99
20) ACETONE	6.166	58	176915	20.93	PPBV #	84
27) ETHANOL	5.824	45	3047157	360.46	PPBV	98
30) METHYLENE CHLORIDE	6.861	84	3799	0.24	PPBV	91
34) TERTIARY BUTYL ALCOHOL	6.842	59	9684	0.26	PPBV #	1
36) TETRAHYDROFURAN	9.086	72	2369	0.31	PPBV #	83
37) HEXANE	8.604	57	10280	0.36	PPBV	87
40) METHYL ETHYL KETONE	8.086	72	9641	1.22	PPBV #	57
43) ETHYL ACETATE	8.616	61	10094	1.97	PPBV #	1
45) CHLOROFORM	8.696	83	5931	0.19	PPBV	97
48) CARBON TETRACHLORIDE	10.110	117	3048	0.10	PPBV	99
51) BENZENE	9.982	78	23496	0.49	PPBV	98
52) CYCLOHEXANE	10.226	84	4274	0.18	PPBV #	71
54) TRICHLOROETHYLENE	10.939	95	1583	0.08	PPBV	94
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	18911	0.23	PPBV	93
62) HEPTANE	11.183	43	9840	0.32	PPBV	97
64) METHYL ISOBUTYL KETONE	11.793	43	18806	0.57	PPBV	97
66) TOLUENE	12.707	92	104977	3.26	PPBV	98
71) 2-HEXANONE	12.975	43	3300	0.13	PPBV	85
72) TETRACHLOROETHYLENE	13.859	164	5699	0.32	PPBV	94
78) ETHYLBENZENE	14.951	91	24209	0.46	PPBV	98
79) m,p-XYLENE	15.133	106	30948	1.51	PPBV	92
80) o-XYLENE	15.652	106	10566	0.53	PPBV	96
81) STYRENE	15.542	104	8902	0.32	PPBV	95
91) 4-ETHYLTOLUENE	17.042	105	5511	0.12	PPBV	97
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	4658	0.12	PPBV	98
95) 1,2,4-TRIMETHYLBENZENE	17.590	105	16497	0.47	PPBV #	33
98) p-DICHLOROBENZENE	17.852	146	5798	0.28	PPBV	98
107) NAPHTHALENE	20.328	128	30042	3.81	PPBV	97

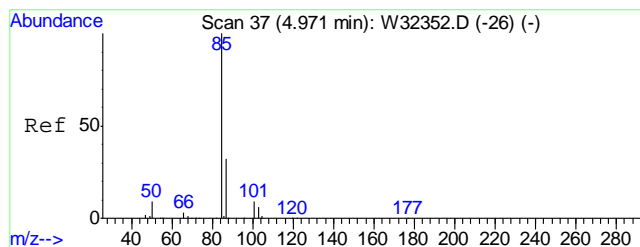
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32813.D
 Acq On : 20 Jul 2011 6:12 pm
 Operator : YOUMINH
 Sample : JA81330-6
 Misc : MS15514,VW1341,400,,,1
 ALS Vial : 14 Sample Multiplier: 1

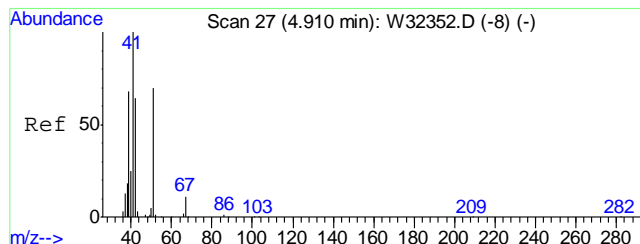
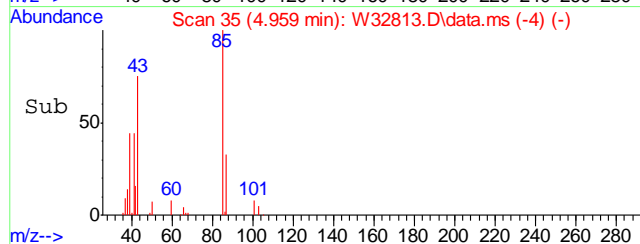
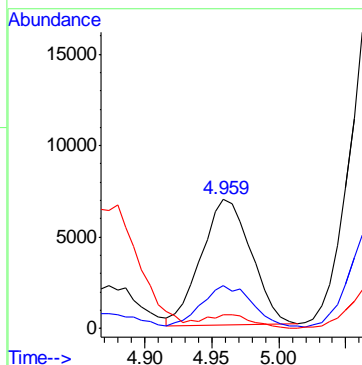
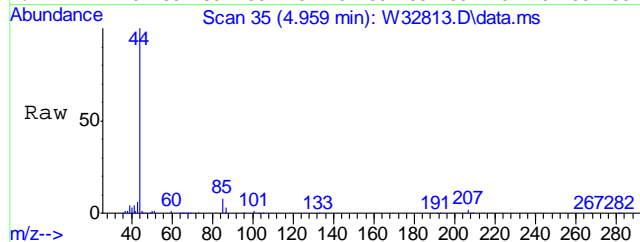
Quant Time: Aug 17 00:25:13 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration





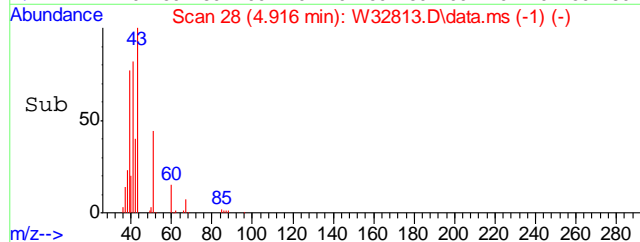
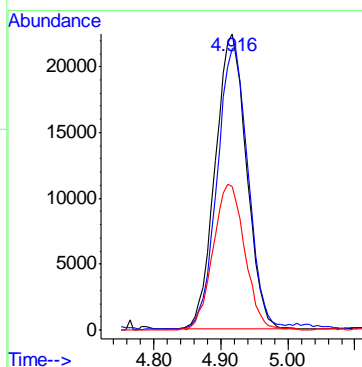
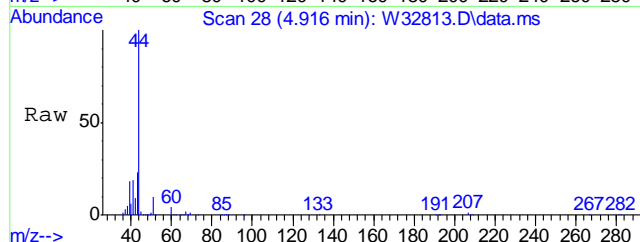
#5
 DICHLORODIFLUOROMETHANE
 Concen: 0.46 PPBV
 RT: 4.959 min Scan# 35
 Delta R.T. -0.012 min
 Lab File: W32813.D
 Acq: 20 Jul 2011 6:12 pm

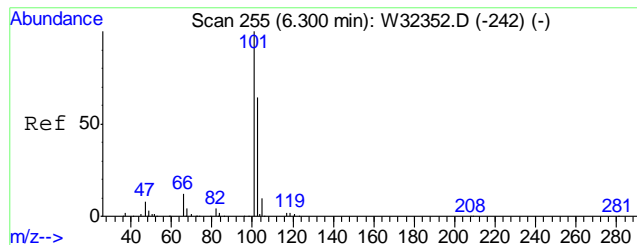
Tgt Ion: 85 Resp: 17965
 Ion Ratio Lower Upper
 85 100
 87 33.2 12.0 52.0
 50 9.2 0.0 30.7



#6
 PROPYLENE
 Concen: 4.42 PPBV
 RT: 4.916 min Scan# 28
 Delta R.T. 0.006 min
 Lab File: W32813.D
 Acq: 20 Jul 2011 6:12 pm

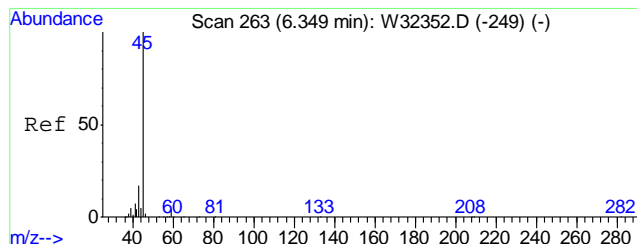
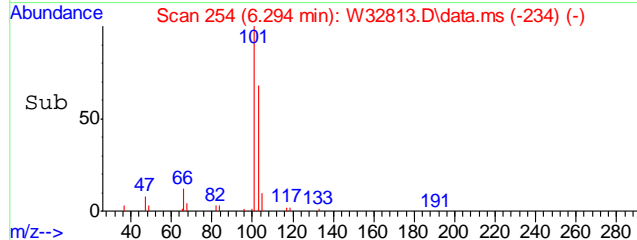
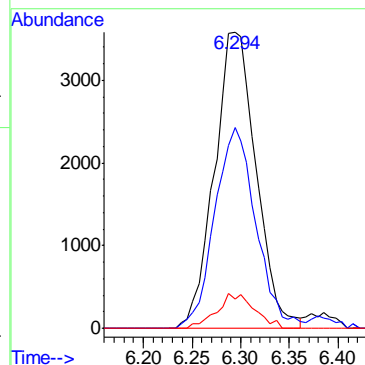
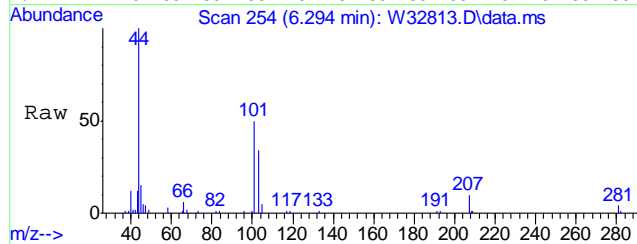
Tgt Ion: 41 Resp: 72917
 Ion Ratio Lower Upper
 41 100
 39 95.2 47.7 87.7#
 42 48.5 43.7 83.7





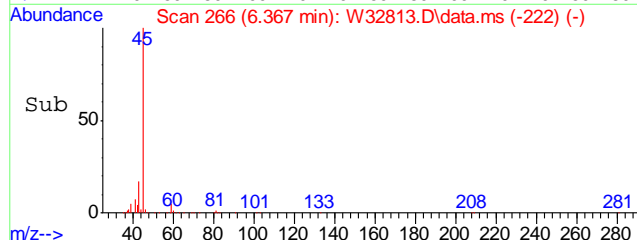
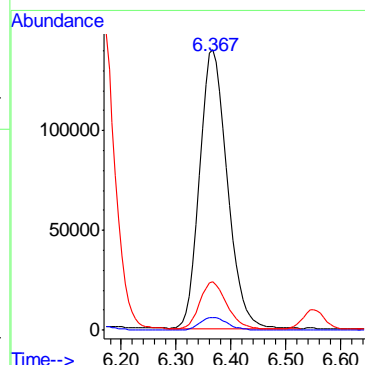
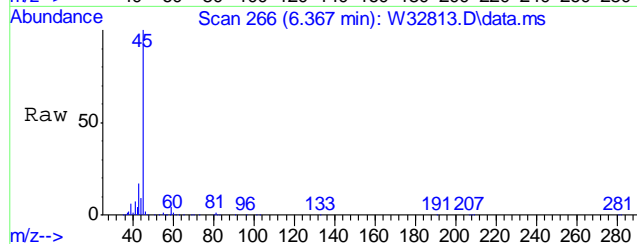
#18
TRICHLOROFLUOROMETHANE
Concen: 0.29 PPBV
RT: 6.294 min Scan# 254
Delta R.T. -0.006 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

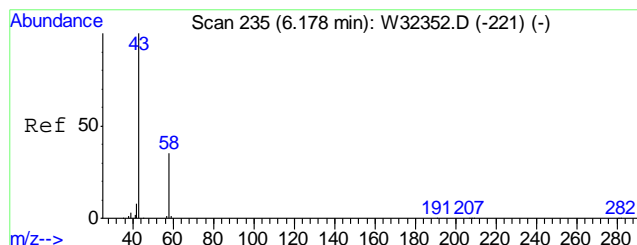
Tgt Ion	Ratio	Lower	Upper
101	100		
103	67.1	44.9	84.9
105	10.5	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 15.11 PPBV
RT: 6.367 min Scan# 266
Delta R.T. 0.018 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

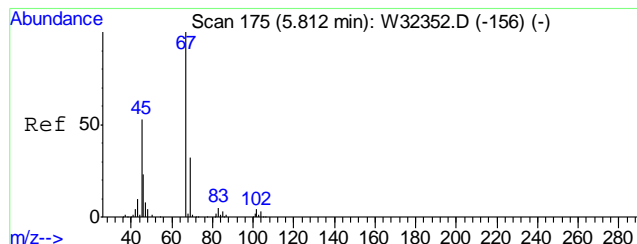
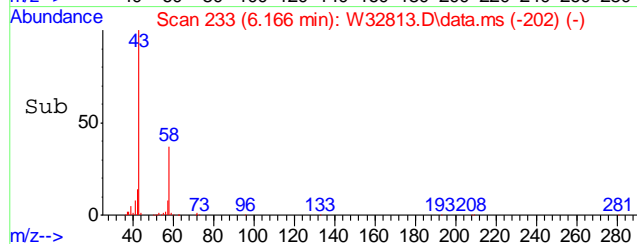
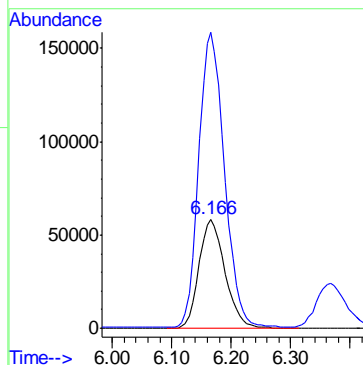
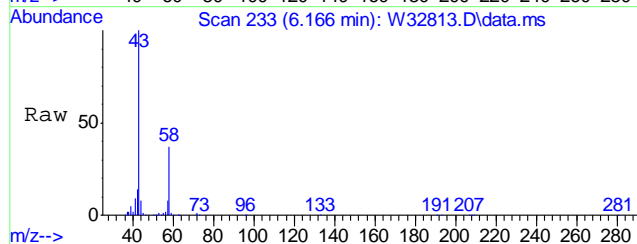
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.5	0.0	24.3
43	17.1	0.0	37.5





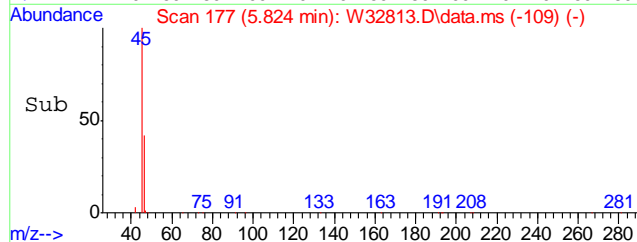
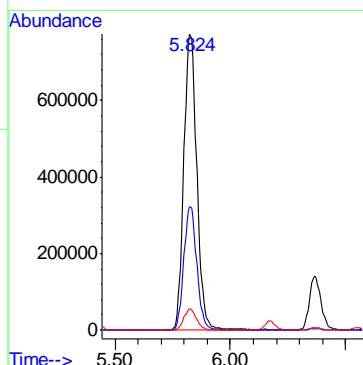
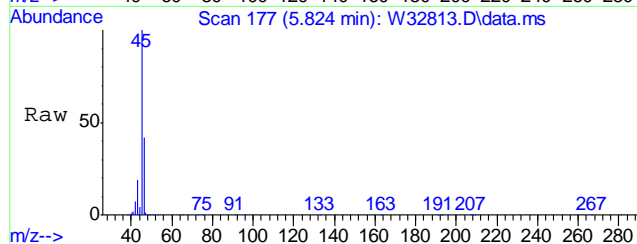
#20
 ACETONE
 Concen: 20.93 PPBV
 RT: 6.166 min Scan# 233
 Delta R.T. -0.012 min
 Lab File: W32813.D
 Acq: 20 Jul 2011 6:12 pm

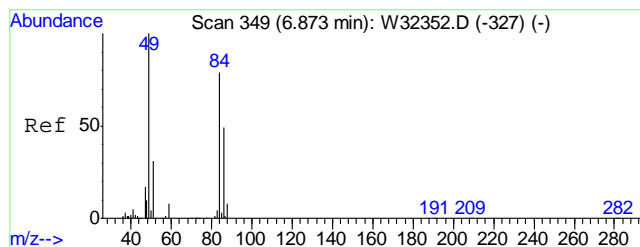
Tgt Ion: 58 Resp: 176915
 Ion Ratio Lower Upper
 58 100
 43 266.1 277.6 317.6#



#27
 ETHANOL
 Concen: 360.46 PPBV
 RT: 5.824 min Scan# 177
 Delta R.T. 0.012 min
 Lab File: W32813.D
 Acq: 20 Jul 2011 6:12 pm

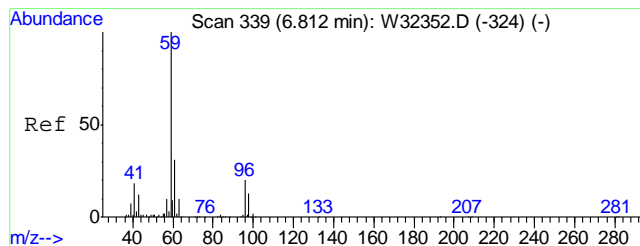
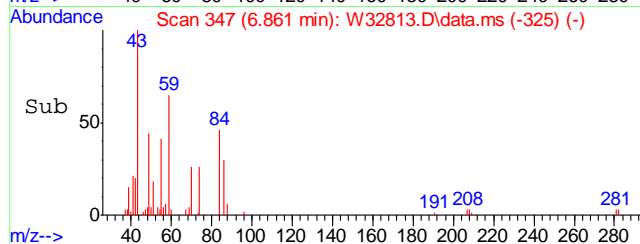
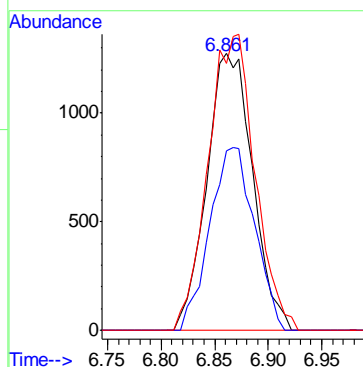
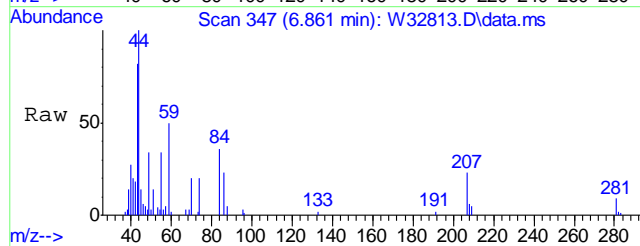
Tgt Ion: 45 Resp: 3047157
 Ion Ratio Lower Upper
 45 100
 46 41.4 20.6 60.6
 42 7.0 0.0 28.7





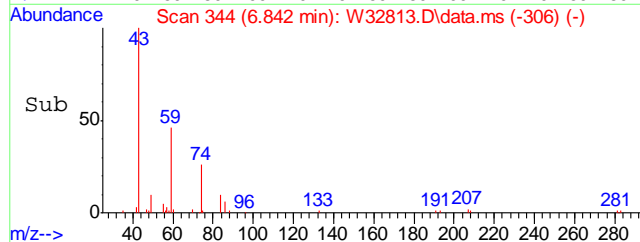
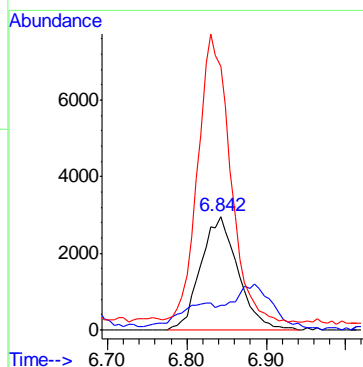
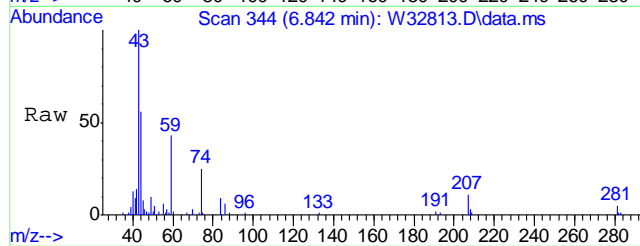
#30
METHYLENE CHLORIDE
Concen: 0.24 PPBV
RT: 6.861 min Scan# 347
Delta R.T. -0.012 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

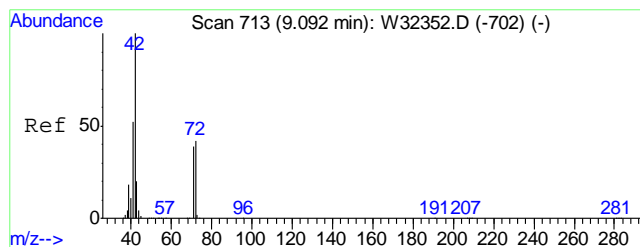
Tgt Ion	Ratio	Lower	Upper
84	100		
86	64.3	42.9	82.9
49	109.1	0.0	324.2



#34
TERTIARY BUTYL ALCOHOL
Concen: 0.26 PPBV
RT: 6.842 min Scan# 344
Delta R.T. 0.030 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

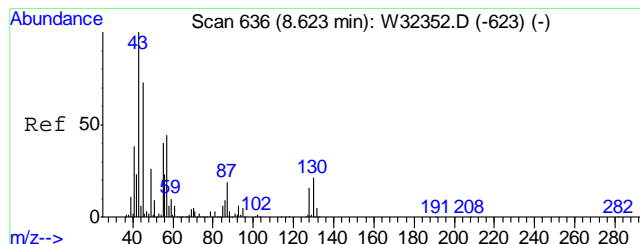
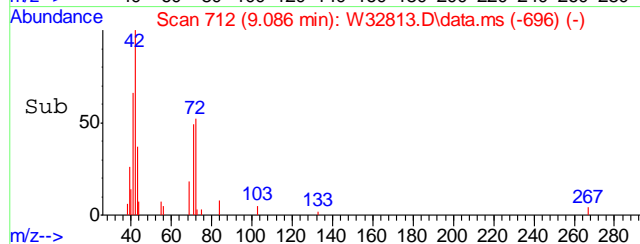
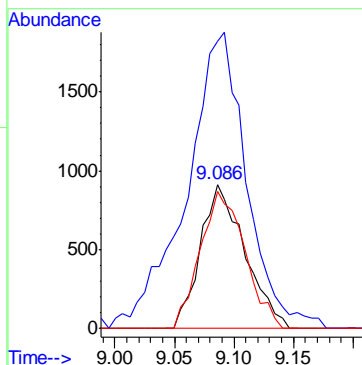
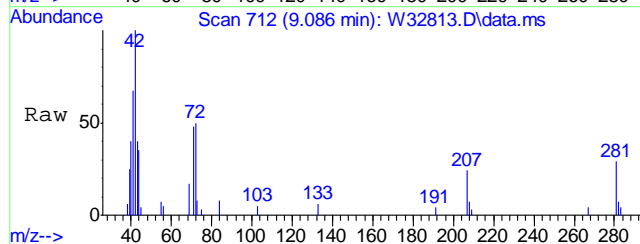
Tgt Ion	Ratio	Lower	Upper
59	100		
41	20.2	0.0	39.2
43	220.0	0.0	32.1#





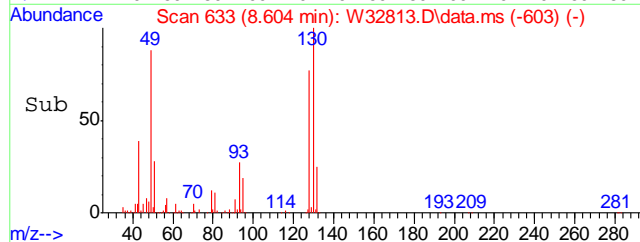
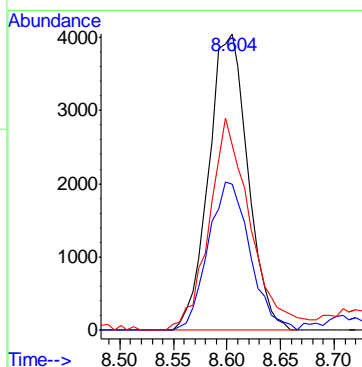
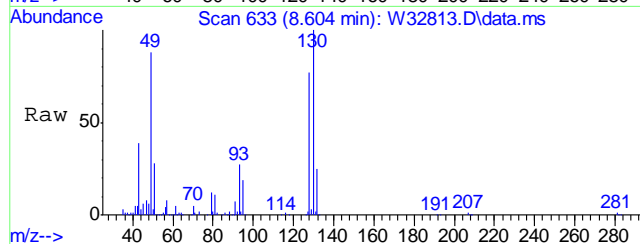
#36
TETRAHYDROFURAN
Concen: 0.31 PPBV
RT: 9.086 min Scan# 712
Delta R.T. -0.006 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

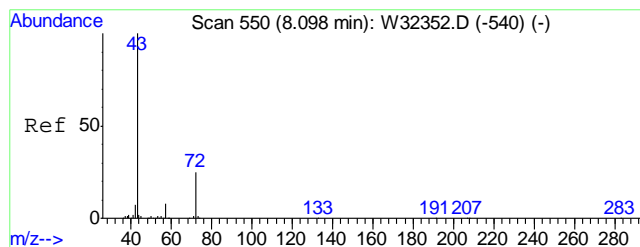
Tgt Ion	Ratio	Lower	Upper
72	100		
42	279.4	220.0	260.0#
71	95.5	74.2	114.2



#37
HEXANE
Concen: 0.36 PPBV
RT: 8.604 min Scan# 633
Delta R.T. -0.018 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

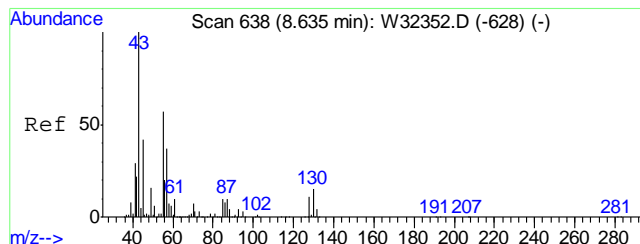
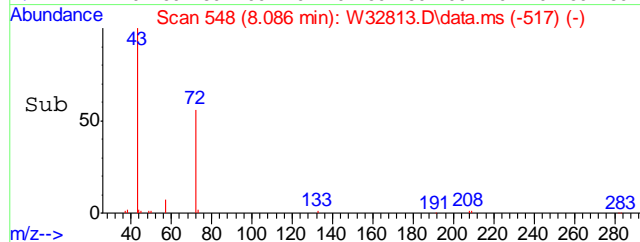
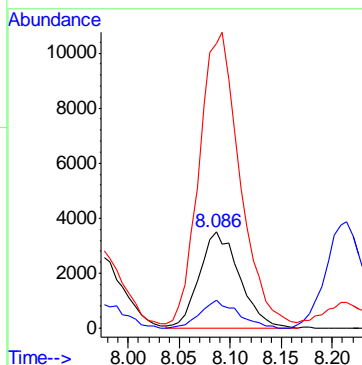
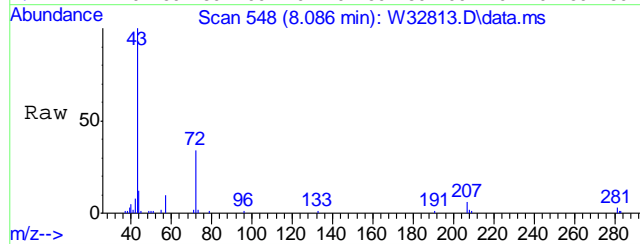
Tgt Ion	Ratio	Lower	Upper
57	100		
56	53.3	33.7	73.7
41	75.0	74.5	114.5





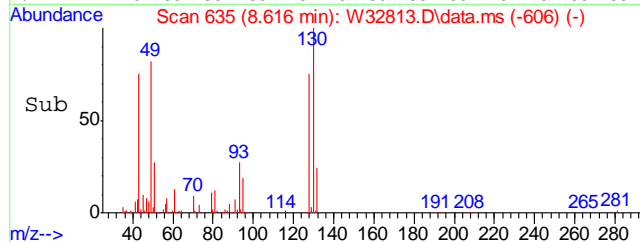
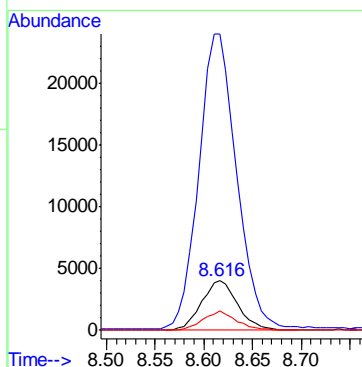
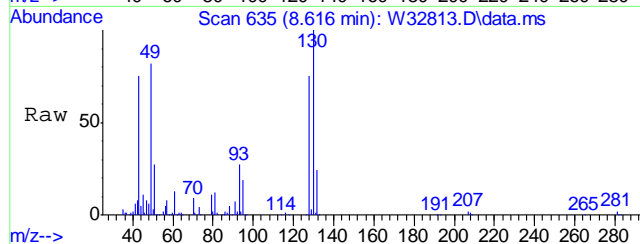
#40
METHYL ETHYL KETONE
Concen: 1.22 PPBV
RT: 8.086 min Scan# 548
Delta R.T. -0.012 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

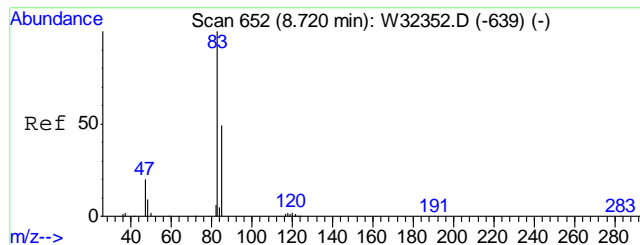
Tgt Ion: 72 Resp: 9641
Ion Ratio Lower Upper
72 100
57 29.7 11.1 51.1
43 296.8 386.1 426.1#



#43
ETHYL ACETATE
Concen: 1.97 PPBV
RT: 8.616 min Scan# 635
Delta R.T. -0.018 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

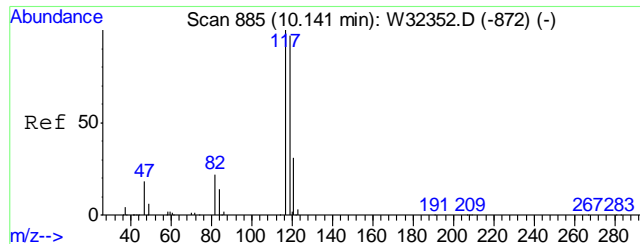
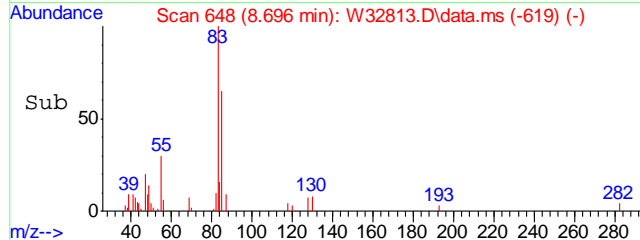
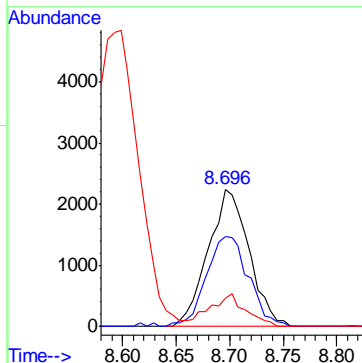
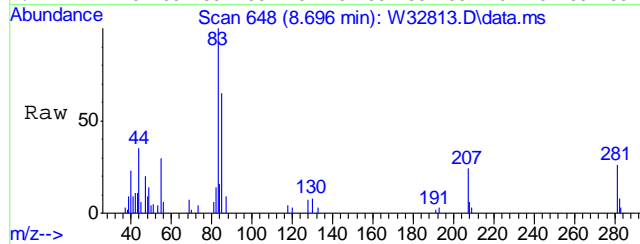
Tgt Ion: 61 Resp: 10094
Ion Ratio Lower Upper
61 100
43 635.6 1488.2 1528.2#
88 34.9 27.8 67.8





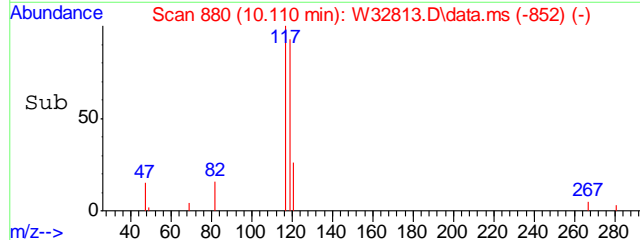
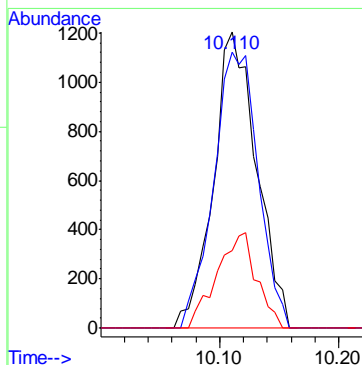
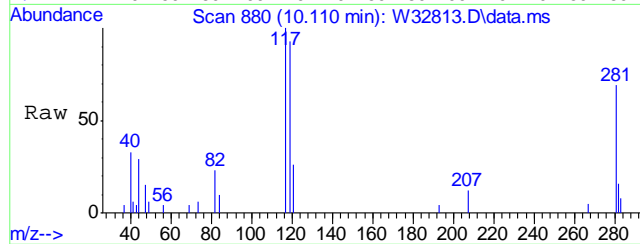
#45
CHLOROFORM
Concen: 0.19 PPBV
RT: 8.696 min Scan# 648
Delta R.T. -0.024 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

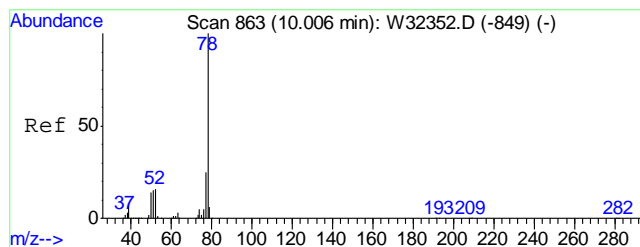
Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.3	44.6	84.6
47	20.9	2.6	42.6



#48
CARBON TETRACHLORIDE
Concen: 0.10 PPBV
RT: 10.110 min Scan# 880
Delta R.T. -0.030 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

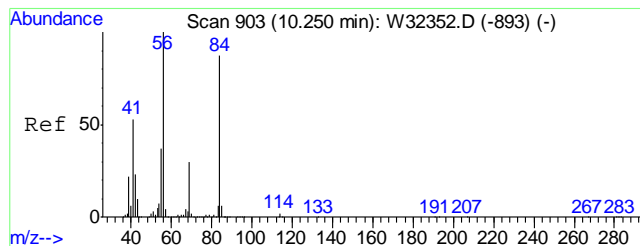
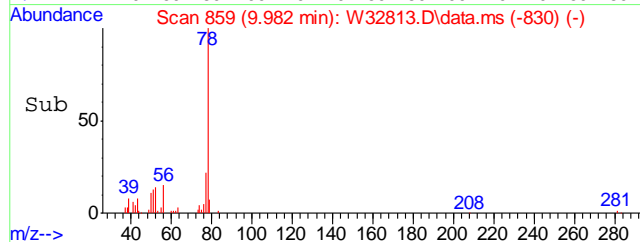
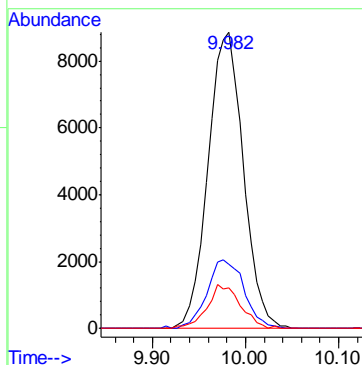
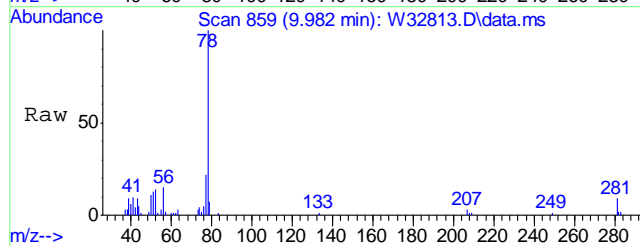
Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.5	116.5
121	29.5	10.8	50.8





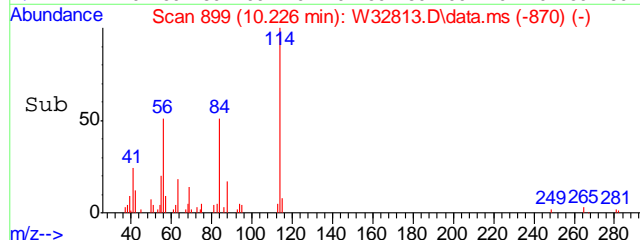
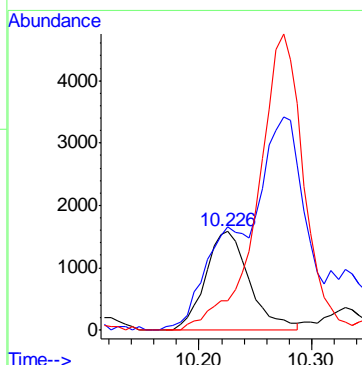
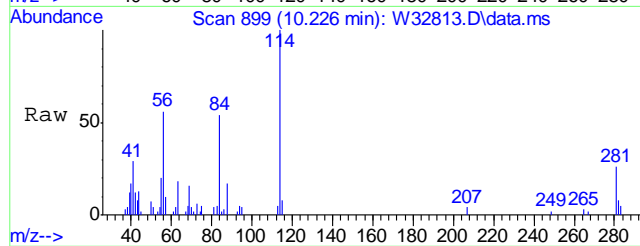
#51
BENZENE
Concen: 0.49 PPBV
RT: 9.982 min Scan# 859
Delta R.T. -0.024 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

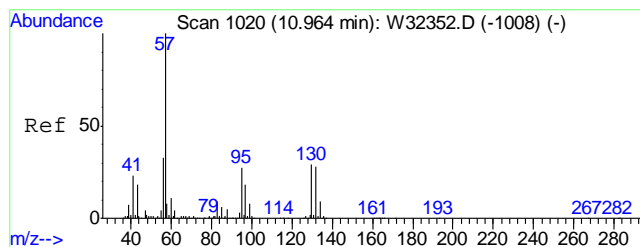
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	4.7	44.7
52	13.9	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.18 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.024 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

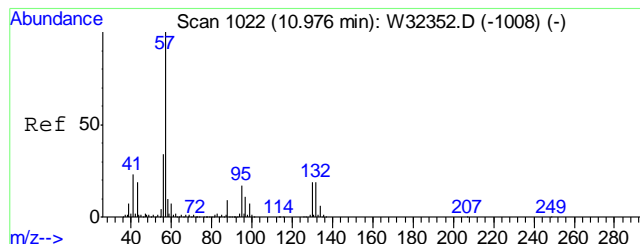
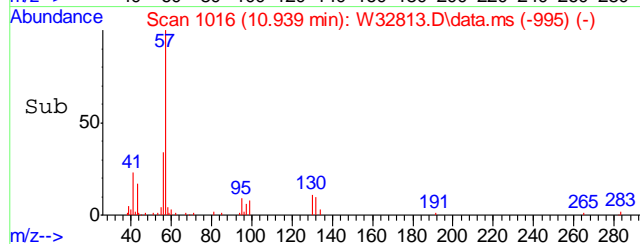
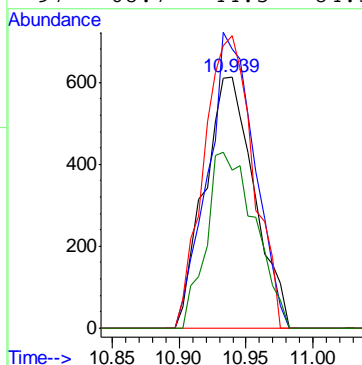
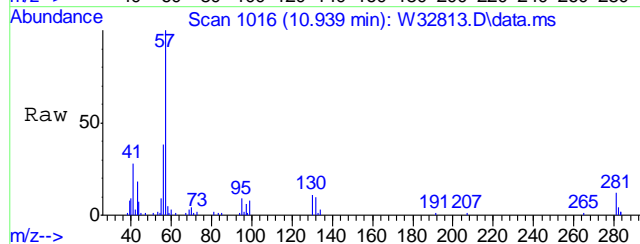
Tgt Ion	Ratio	Lower	Upper
84	100		
56	103.3	102.7	142.7
69	0.0	20.8	60.8#





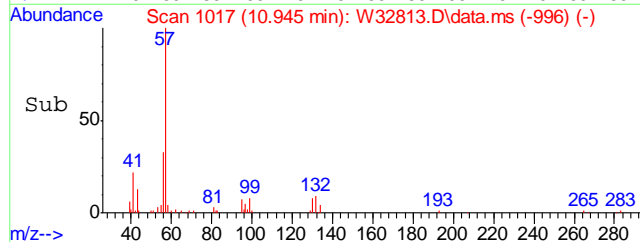
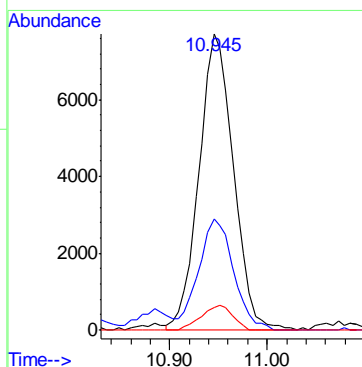
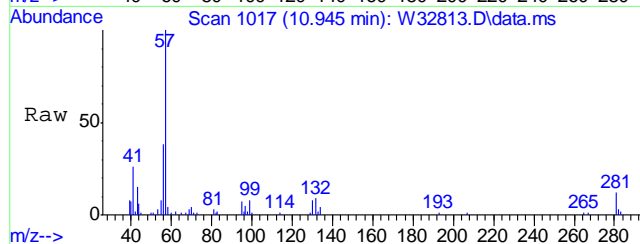
#54
 TRICHLOROETHYLENE
 Concen: 0.08 PPBV
 RT: 10.939 min Scan# 1016
 Delta R.T. -0.024 min
 Lab File: W32813.D
 Acq: 20 Jul 2011 6:12 pm

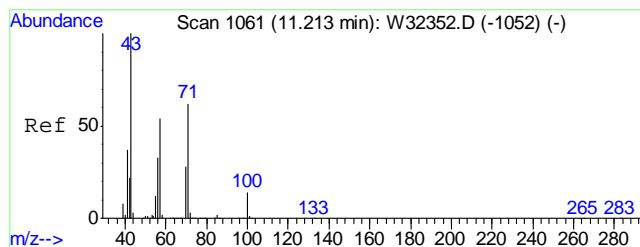
Tgt Ion	Ratio	Lower	Upper
95	100		
132	110.0	84.3	124.3
130	114.8	88.4	128.4
97	68.7	44.5	84.5



#59
 2,2,4-TRIMETHYLPENTANE
 Concen: 0.23 PPBV
 RT: 10.945 min Scan# 1017
 Delta R.T. -0.030 min
 Lab File: W32813.D
 Acq: 20 Jul 2011 6:12 pm

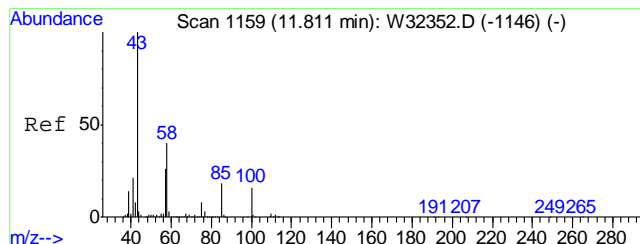
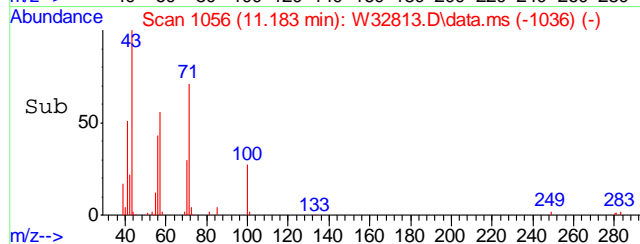
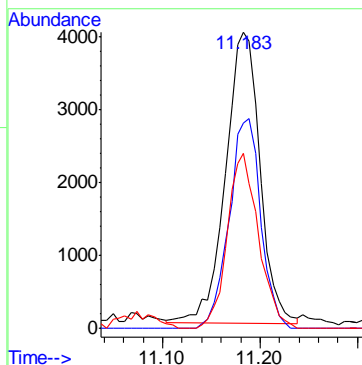
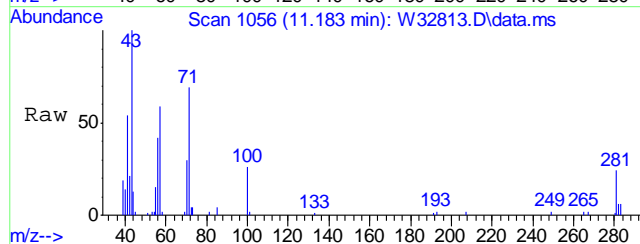
Tgt Ion	Ratio	Lower	Upper
57	100		
56	38.5	13.5	53.5
99	7.6	0.0	27.7





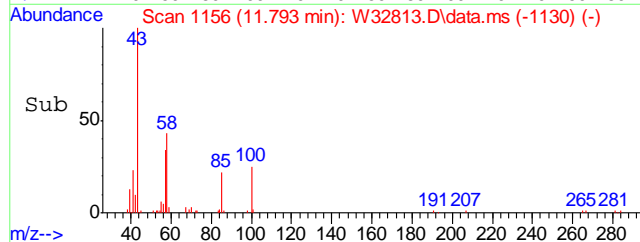
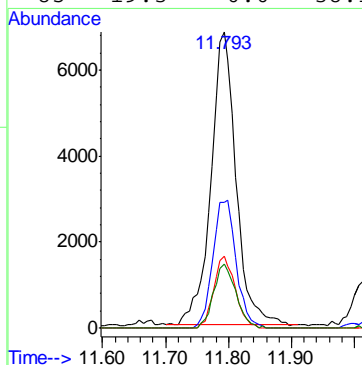
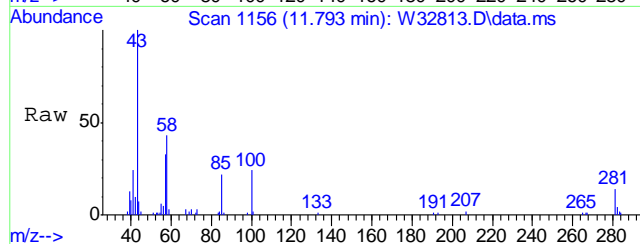
#62
HEPTANE
Concen: 0.32 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.030 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

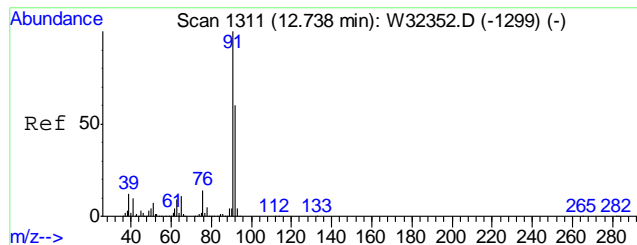
Tgt Ion	Ratio	Lower	Upper
43	100		
71	66.1	41.6	81.6
57	54.4	34.6	74.6



#64
METHYL ISOBUTYL KETONE
Concen: 0.57 PPBV
RT: 11.793 min Scan# 1156
Delta R.T. -0.018 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

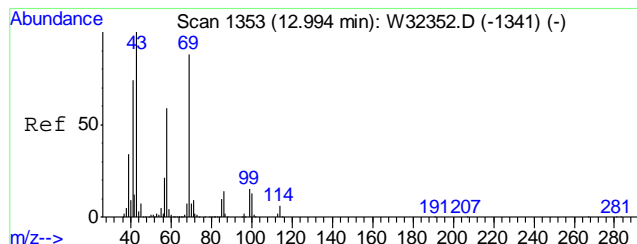
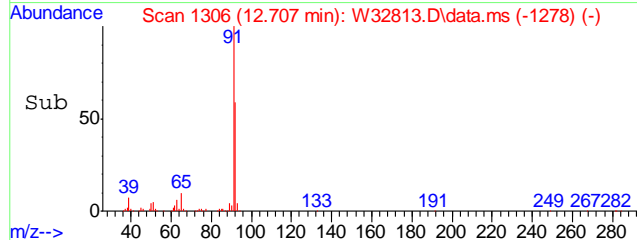
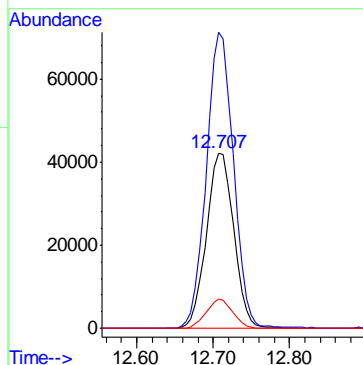
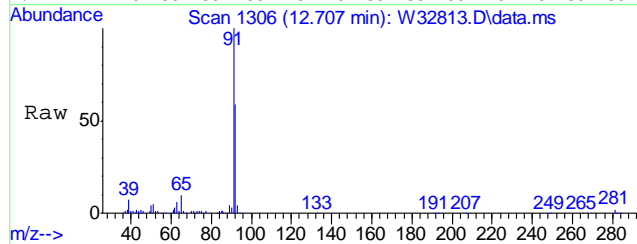
Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.5	20.7	60.7
100	20.8	0.0	36.0
85	19.3	0.0	38.1





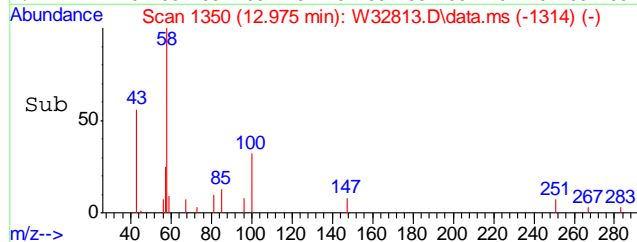
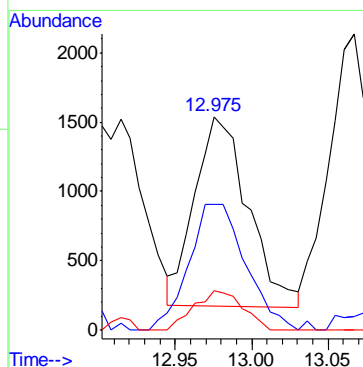
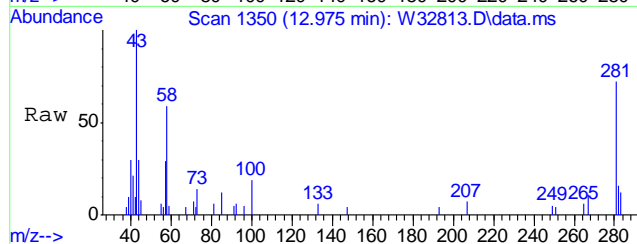
#66
TOLUENE
Concen: 3.26 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.030 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

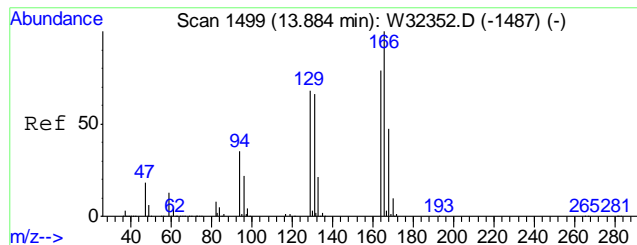
Tgt Ion	Ratio	Lower	Upper
92	100		
91	167.6	146.2	186.2
65	16.2	0.4	40.4



#71
2-HEXANONE
Concen: 0.13 PPBV
RT: 12.975 min Scan# 1350
Delta R.T. -0.018 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

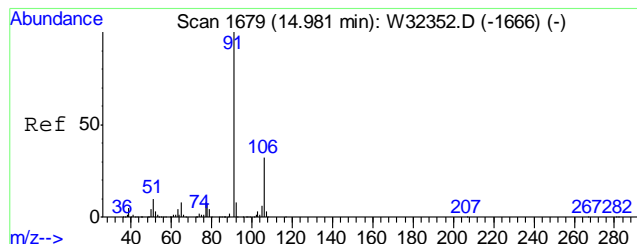
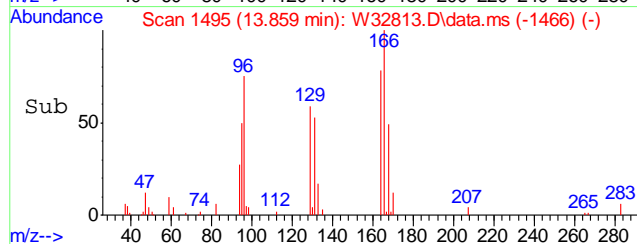
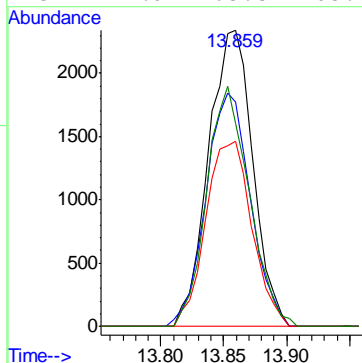
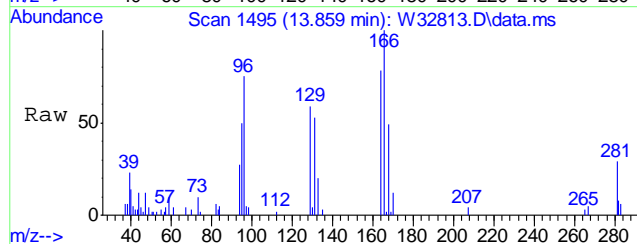
Tgt Ion	Ratio	Lower	Upper
43	100		
58	70.6	39.4	79.4
100	19.0	0.0	33.6





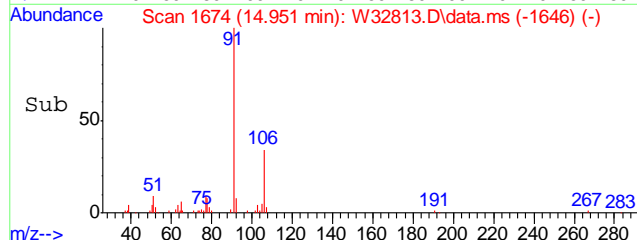
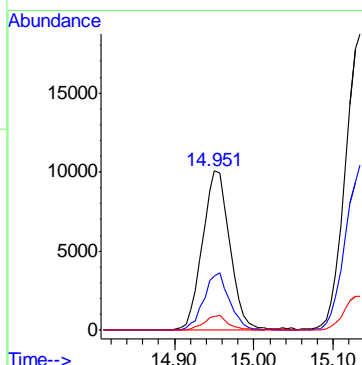
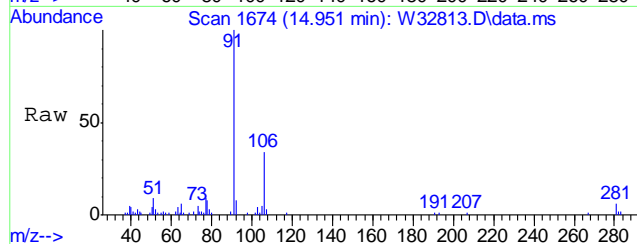
#72
TETRACHLOROETHYLENE
Concen: 0.32 PPBV
RT: 13.859 min Scan# 1495
Delta R.T. -0.024 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

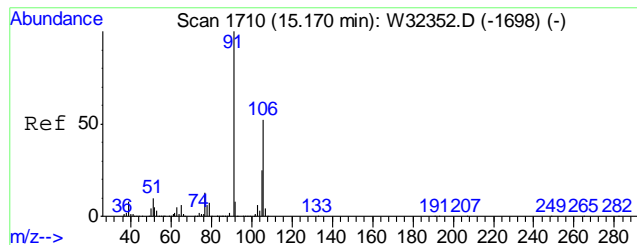
Tgt Ion	Ratio	Lower	Upper
164	100		
129	79.4	66.3	106.3
168	65.1	41.0	81.0
131	77.9	63.5	103.5



#78
ETHYLBENZENE
Concen: 0.46 PPBV
RT: 14.951 min Scan# 1674
Delta R.T. -0.030 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

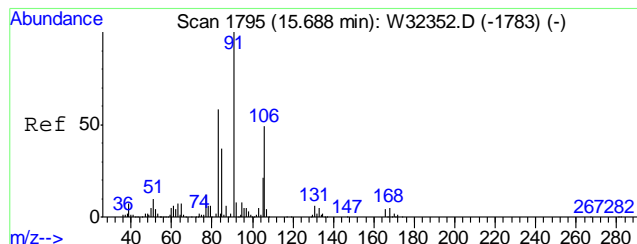
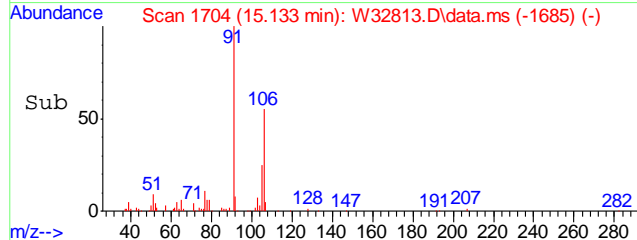
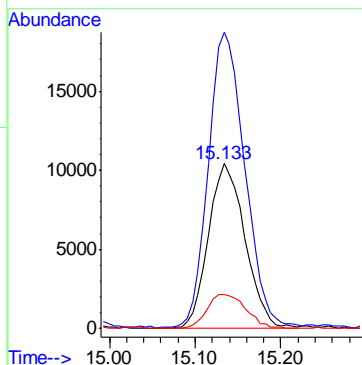
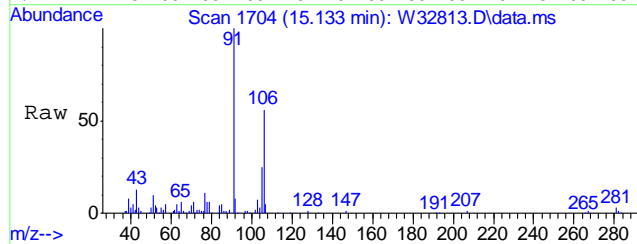
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.3	11.7	51.7
77	7.9	0.0	28.1





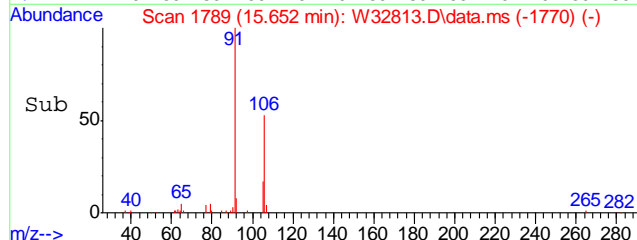
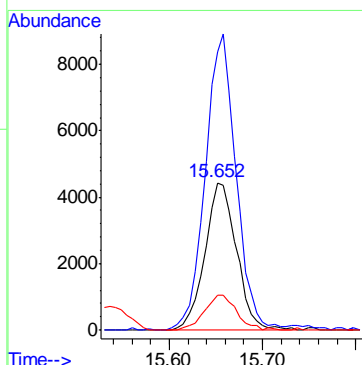
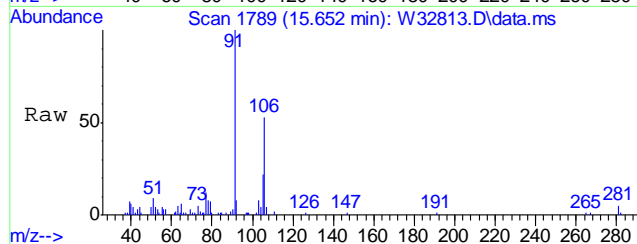
#79
m,p-XYLENE
Concen: 1.51 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

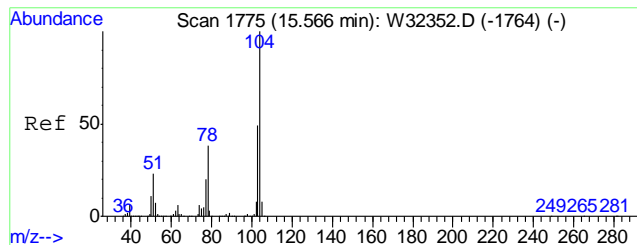
Tgt Ion:	106	Resp:	30948
Ion Ratio	Lower	Upper	
106	100		
91	179.9	152.6	228.8
77	20.3	19.9	29.9



#80
o-XYLENE
Concen: 0.53 PPBV
RT: 15.652 min Scan# 1789
Delta R.T. -0.037 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

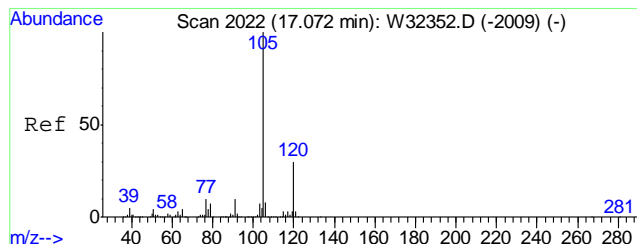
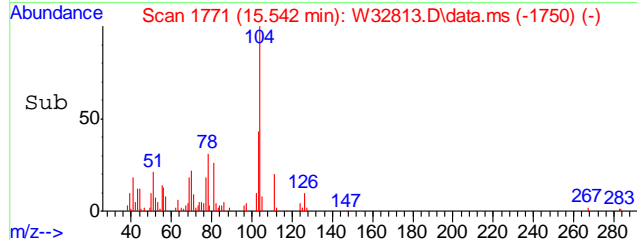
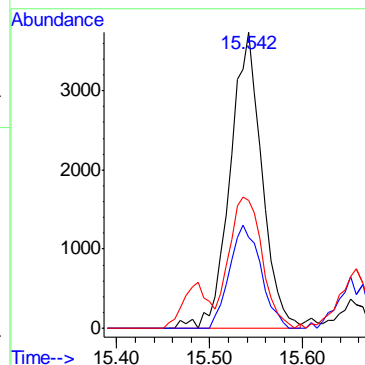
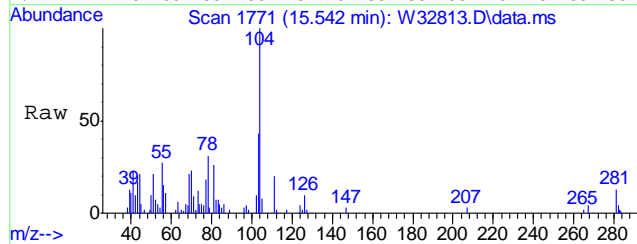
Tgt Ion:	106	Resp:	10566
Ion Ratio	Lower	Upper	
106	100		
91	195.0	182.1	222.1
77	24.2	4.0	44.0





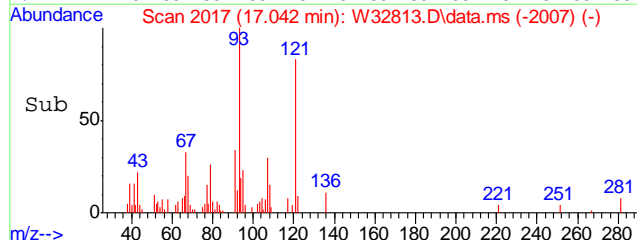
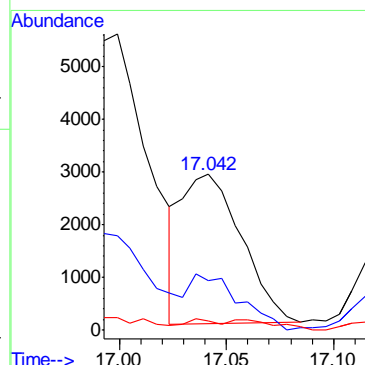
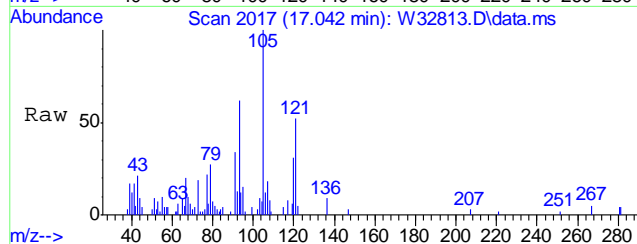
#81
 STYRENE
 Concen: 0.32 PPBV
 RT: 15.542 min Scan# 1771
 Delta R.T. -0.024 min
 Lab File: W32813.D
 Acq: 20 Jul 2011 6:12 pm

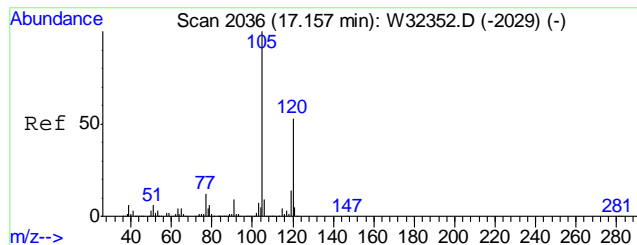
Tgt Ion	Ratio	Lower	Upper
104	100		
78	34.4	18.2	58.2
103	45.7	28.2	68.2



#91
 4-ETHYLTOLUENE
 Concen: 0.12 PPBV
 RT: 17.042 min Scan# 2017
 Delta R.T. -0.030 min
 Lab File: W32813.D
 Acq: 20 Jul 2011 6:12 pm

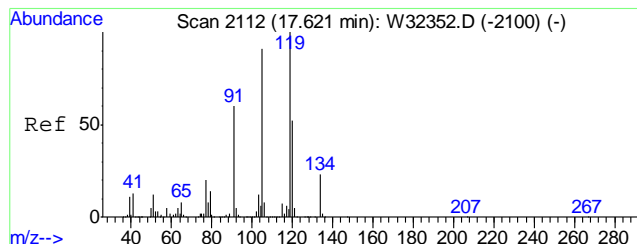
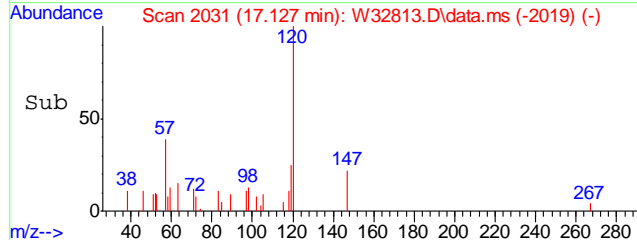
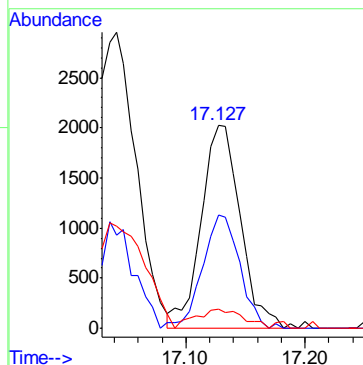
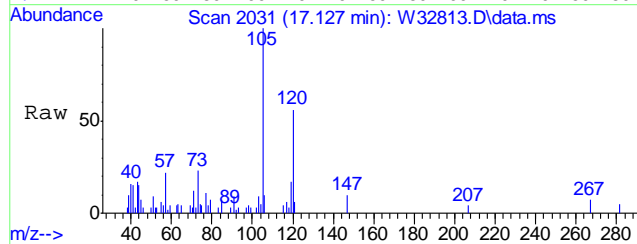
Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.3	9.8	49.8
119	4.1	0.0	22.9





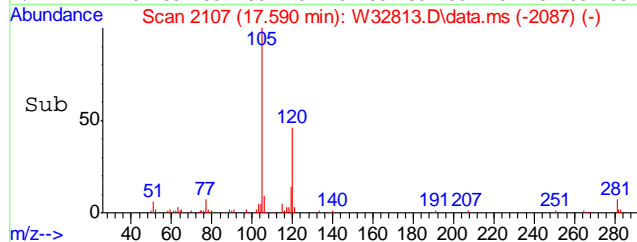
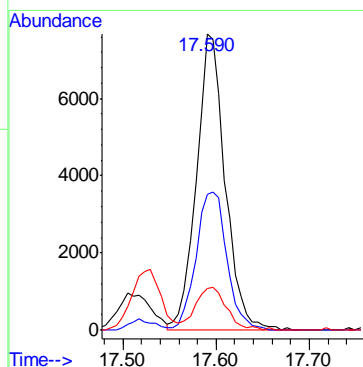
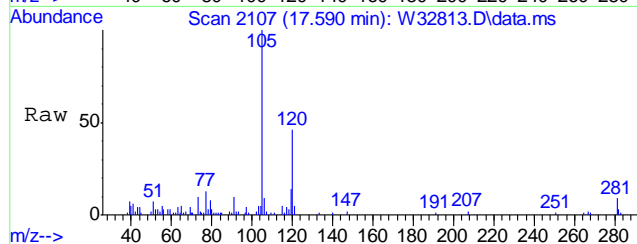
#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.12 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.030 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

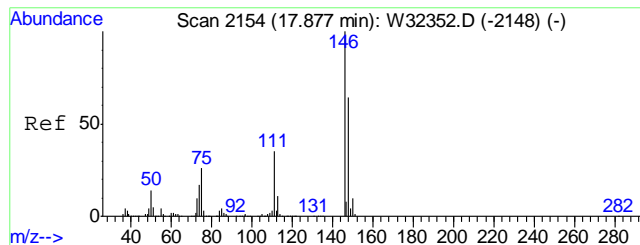
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.1	32.9	72.9
91	11.6	0.0	29.3



#95
1,2,4-TRIMETHYLBENZENE
Concen: 0.47 PPBV
RT: 17.590 min Scan# 2107
Delta R.T. -0.030 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

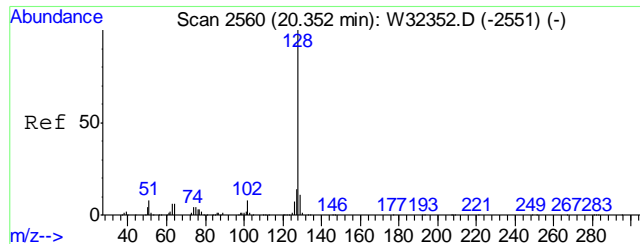
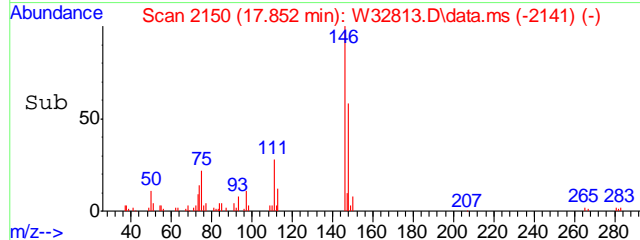
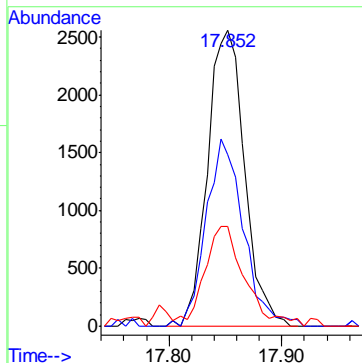
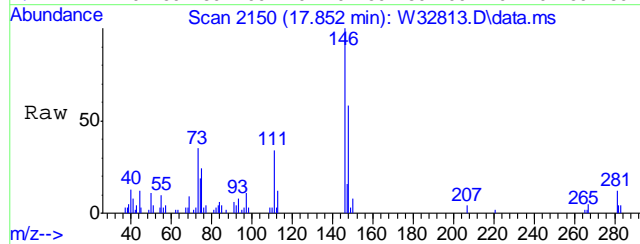
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.9	39.3	79.3
119	15.8	101.1	141.1#





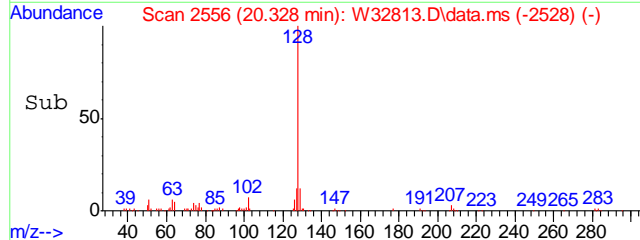
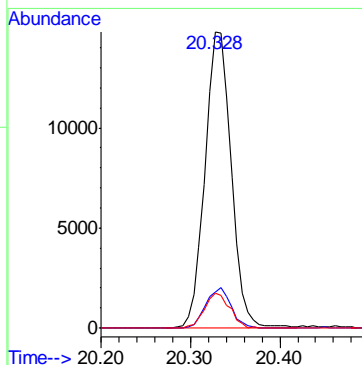
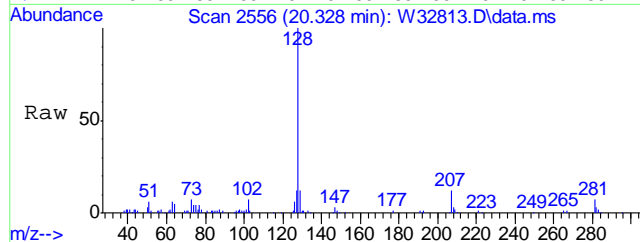
#98
p-DICHLOROBENZENE
Concen: 0.28 PPBV
RT: 17.852 min Scan# 2150
Delta R.T. -0.024 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.4	43.6	83.6
111	37.0	15.4	55.4



#107
NAPHTHALENE
Concen: 3.81 PPBV
RT: 20.328 min Scan# 2556
Delta R.T. -0.024 min
Lab File: W32813.D
Acq: 20 Jul 2011 6:12 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	34.3
129	11.2	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
 Data File : W32834.D
 Acq On : 21 Jul 2011 1:34 pm
 Operator : YOU MINH
 Sample : JA81330-6
 Misc : MS15514,VW1342,100,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 00:26:37 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

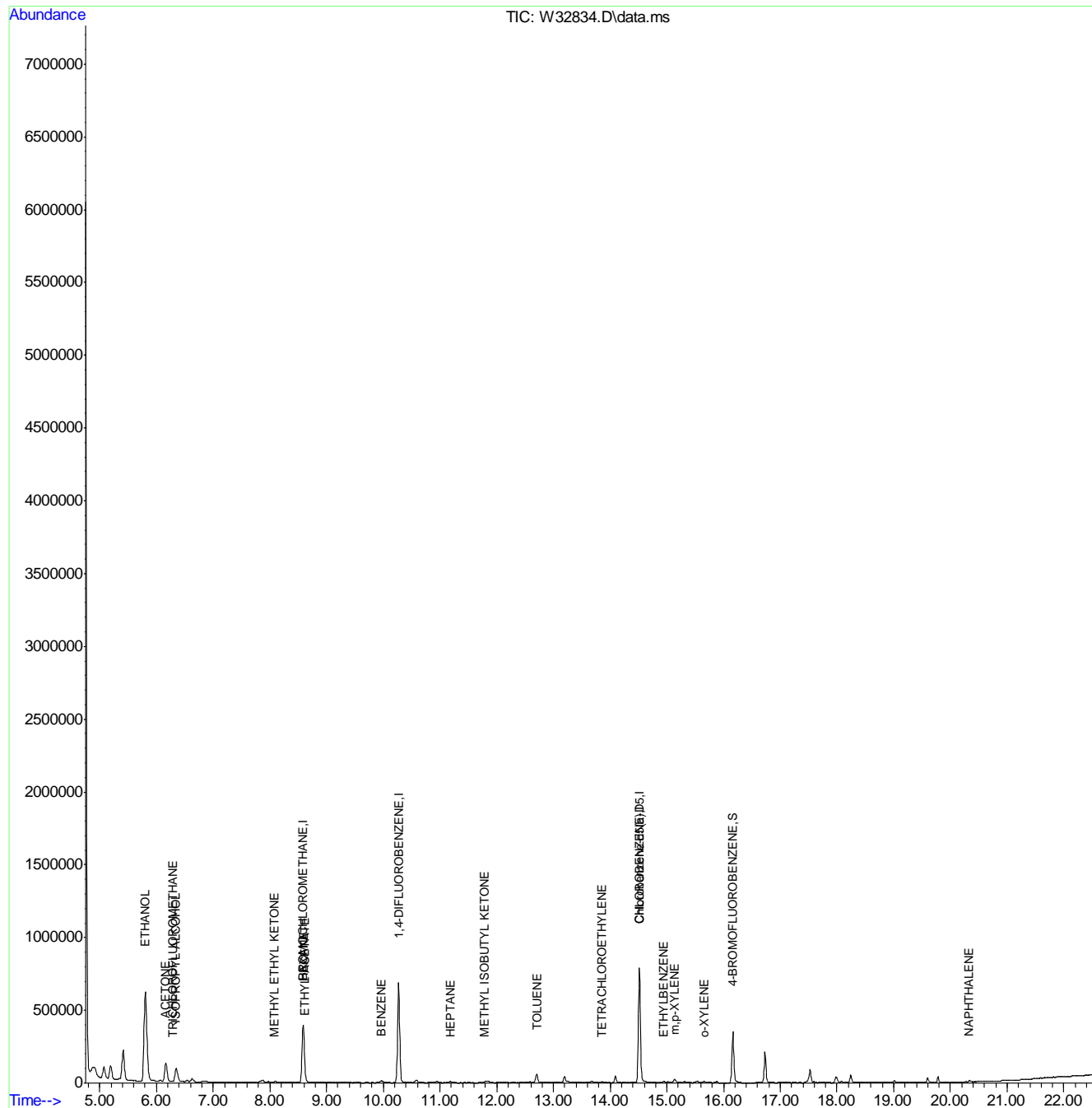
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.586	128	155182	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.268	114	778947	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.518	82	366979	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	366122	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	175503	4.43	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	88.60%
Target Compounds						
					Qvalue	
18) TRICHLOROFLUOROMETHANE	6.288	101	4736	0.11	PPBV	99
19) ISOPROPYL ALCOHOL	6.342	45	217739	5.76	PPBV	99
20) ACETONE	6.166	58	70766	7.13	PPBV	99
27) ETHANOL	5.806	45	1300440	130.95	PPBV	98
37) HEXANE	8.592	57	6001	0.18	PPBV	94
40) METHYL ETHYL KETONE	8.086	72	3693	0.40	PPBV	94
43) ETHYL ACETATE	8.616	61	4332	0.72	PPBV #	1
51) BENZENE	9.970	78	9106	0.15	PPBV	99
62) HEPTANE	11.183	43	5080	0.13	PPBV	86
64) METHYL ISOBUTYL KETONE	11.793	43	9178	0.22	PPBV	89
66) TOLUENE	12.707	92	35134	0.88	PPBV	99
72) TETRACHLOROETHYLENE	13.859	164	1563	0.06	PPBV	95
78) ETHYLBENZENE	14.944	91	7419	0.10	PPBV	99
79) m,p-XYLENE	15.133	106	8978	0.32	PPBV	95
80) o-XYLENE	15.658	106	3152	0.12	PPBV	99
107) NAPHTHALENE	20.334	128	7683	0.70	PPBV	98

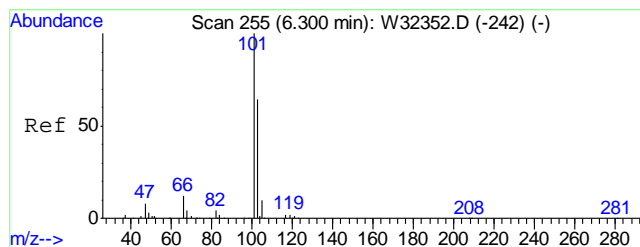
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
Data File : W32834.D
Acq On : 21 Jul 2011 1:34 pm
Operator : YOUMINH
Sample : JA81330-6
Misc : MS15514,VW1342,100,,,1
ALS Vial : 7 Sample Multiplier: 1

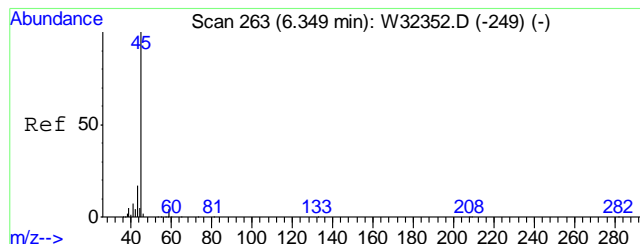
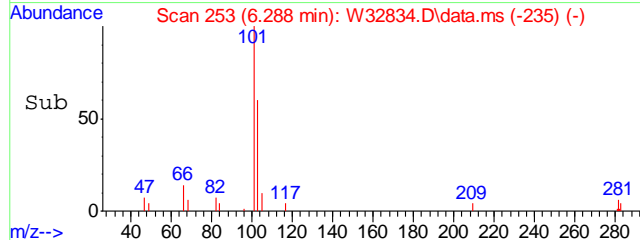
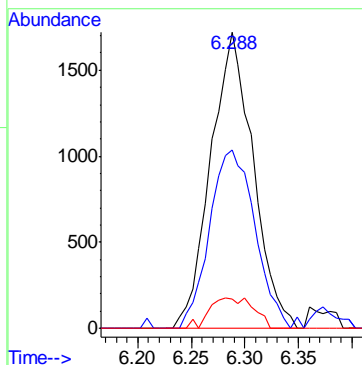
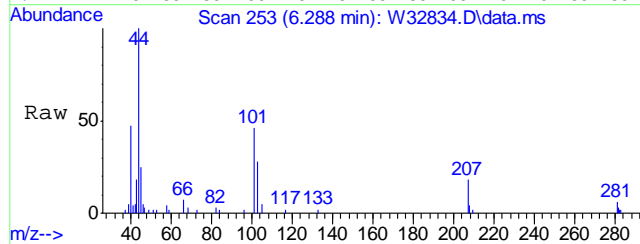
Quant Time: Aug 17 00:26:37 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





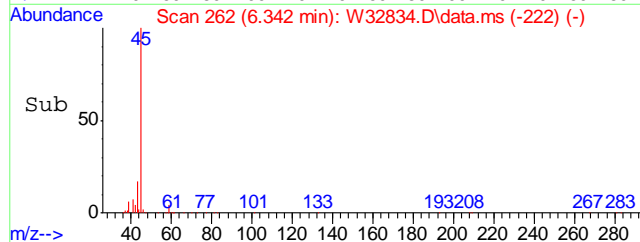
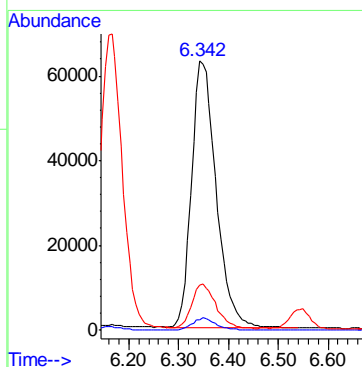
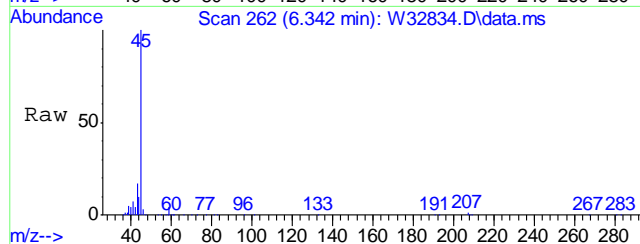
#18
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 6.288 min Scan# 253
Delta R.T. -0.012 min
Lab File: W32834.D
Acq: 21 Jul 2011 1:34 pm

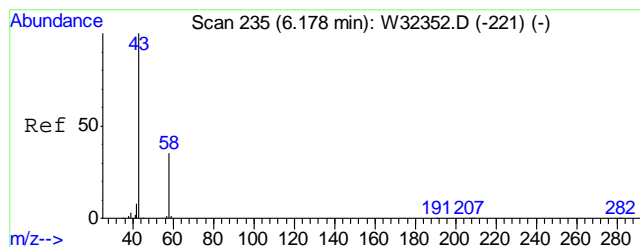
Tgt Ion:	101	Resp:	4736
Ion Ratio	Lower	Upper	
101	100		
103	64.1	44.9	84.9
105	10.7	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 5.76 PPBV
RT: 6.342 min Scan# 262
Delta R.T. -0.006 min
Lab File: W32834.D
Acq: 21 Jul 2011 1:34 pm

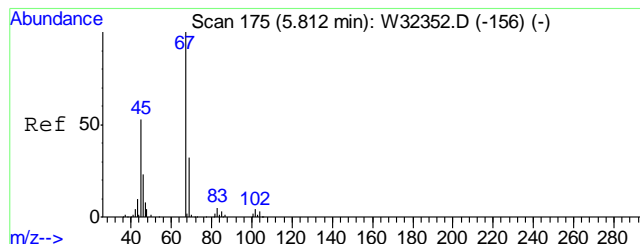
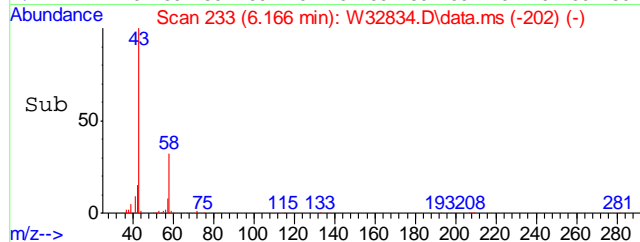
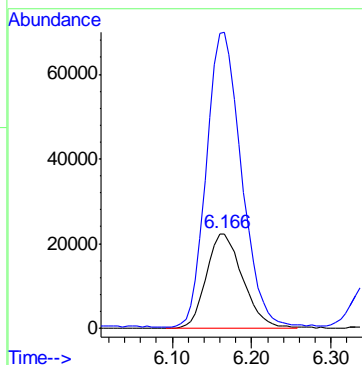
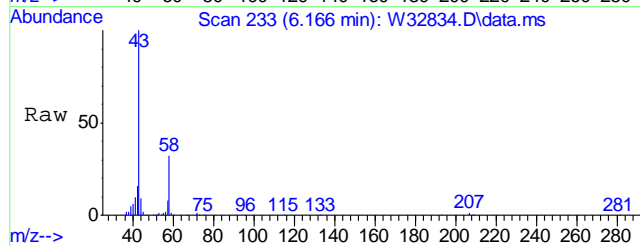
Tgt Ion:	45	Resp:	217739
Ion Ratio	Lower	Upper	
45	100		
59	4.0	0.0	24.3
43	16.9	0.0	37.5





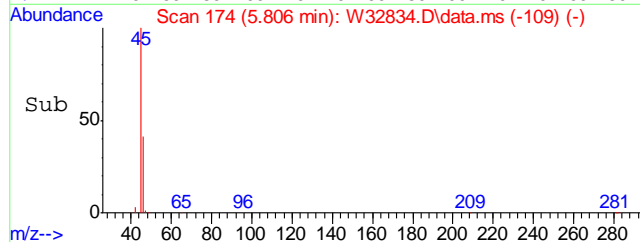
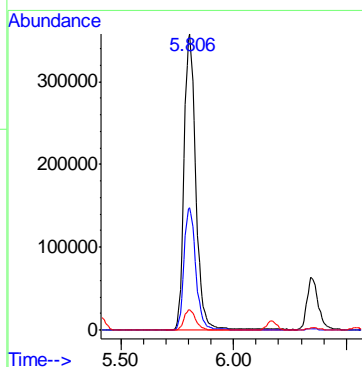
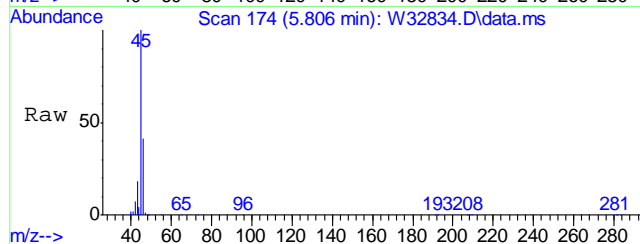
#20
ACETONE
Concen: 7.13 PPBV
RT: 6.166 min Scan# 233
Delta R.T. -0.012 min
Lab File: W32834.D
Acq: 21 Jul 2011 1:34 pm

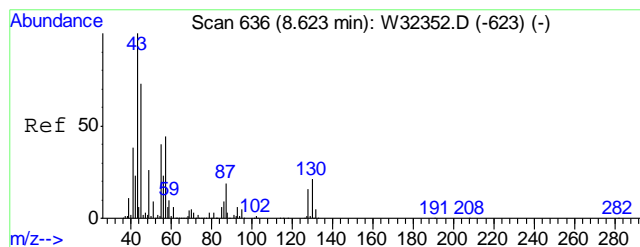
Tgt Ion: 58 Resp: 70766
Ion Ratio Lower Upper
58 100
43 300.3 277.6 317.6



#27
ETHANOL
Concen: 130.95 PPBV
RT: 5.806 min Scan# 174
Delta R.T. -0.006 min
Lab File: W32834.D
Acq: 21 Jul 2011 1:34 pm

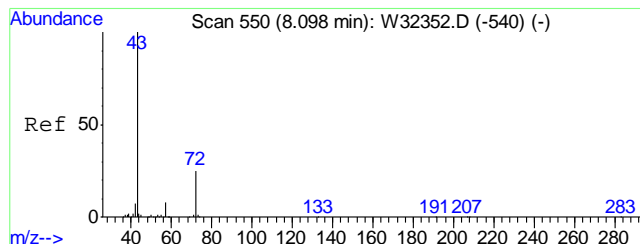
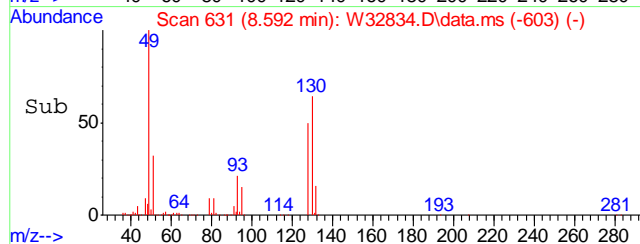
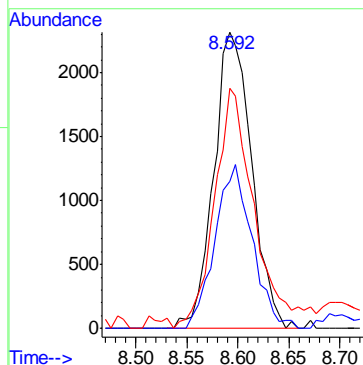
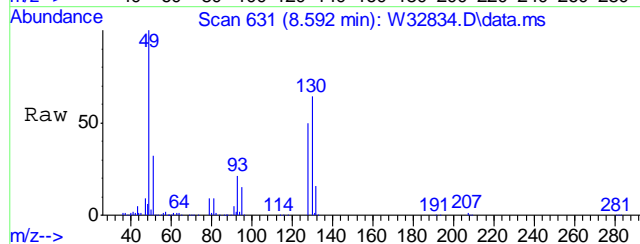
Tgt Ion: 45 Resp: 1300440
Ion Ratio Lower Upper
45 100
46 41.5 20.6 60.6
42 6.7 0.0 28.7





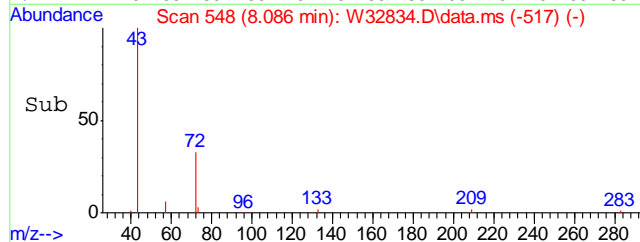
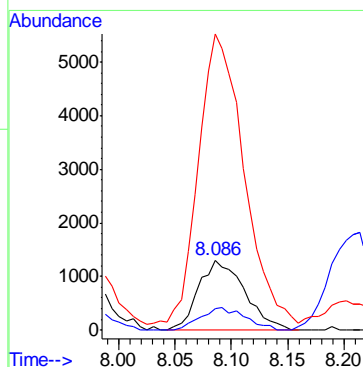
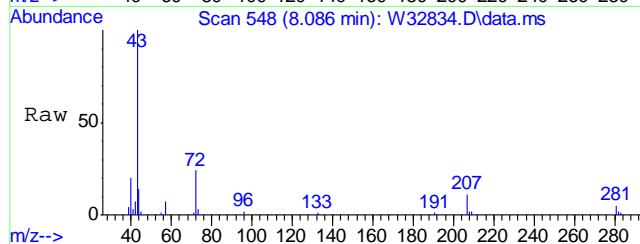
#37
 HEXANE
 Concen: 0.18 PPBV
 RT: 8.592 min Scan# 631
 Delta R.T. -0.031 min
 Lab File: W32834.D
 Acq: 21 Jul 2011 1:34 pm

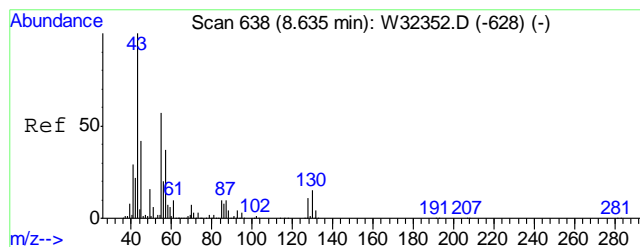
Tgt Ion	Ratio	Lower	Upper
57	100		
56	54.1	33.7	73.7
41	86.4	74.5	114.5



#40
 METHYL ETHYL KETONE
 Concen: 0.40 PPBV
 RT: 8.086 min Scan# 548
 Delta R.T. -0.012 min
 Lab File: W32834.D
 Acq: 21 Jul 2011 1:34 pm

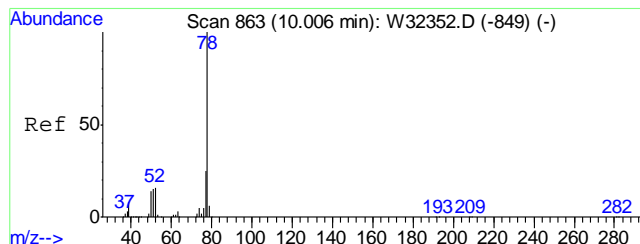
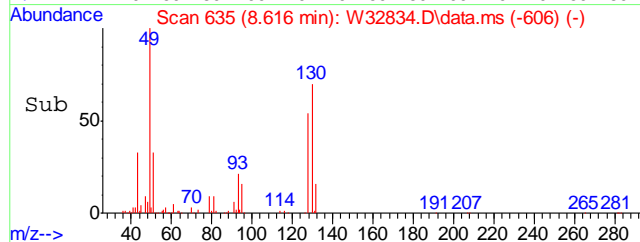
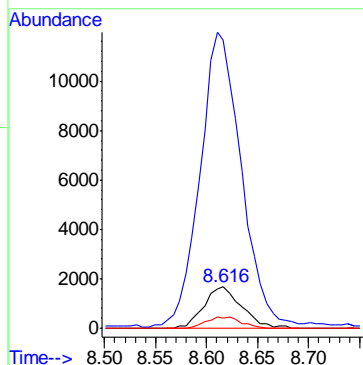
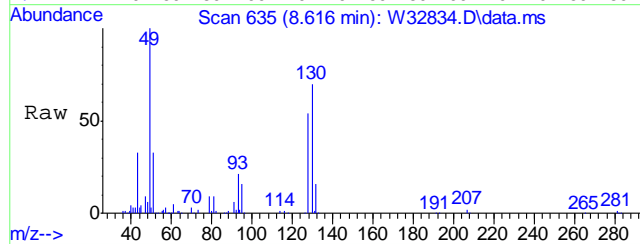
Tgt Ion	Ratio	Lower	Upper
72	100		
57	31.3	11.1	51.1
43	422.7	386.1	426.1





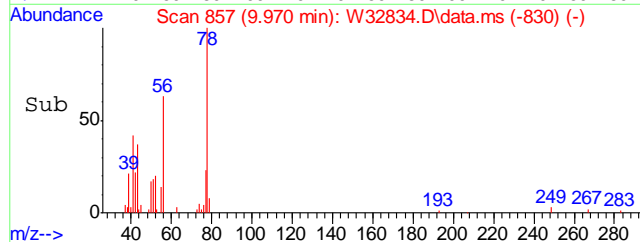
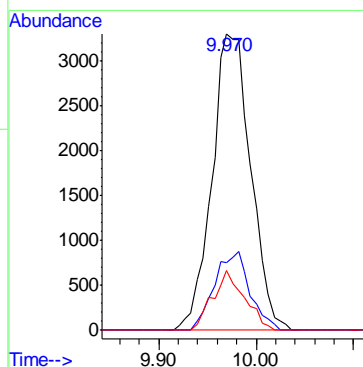
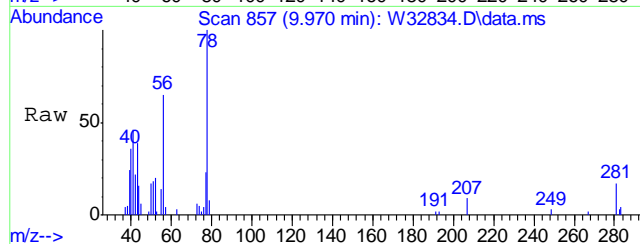
#43
ETHYL ACETATE
Concen: 0.72 PPBV
RT: 8.616 min Scan# 635
Delta R.T. -0.018 min
Lab File: W32834.D
Acq: 21 Jul 2011 1:34 pm

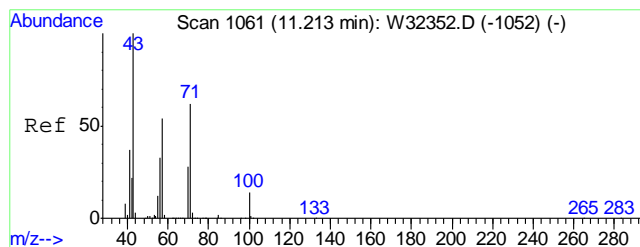
Tgt Ion	Ratio	Lower	Upper
61	100		
43	772.9	1488.2	1528.2#
88	26.2	27.8	67.8#



#51
BENZENE
Concen: 0.15 PPBV
RT: 9.970 min Scan# 857
Delta R.T. -0.037 min
Lab File: W32834.D
Acq: 21 Jul 2011 1:34 pm

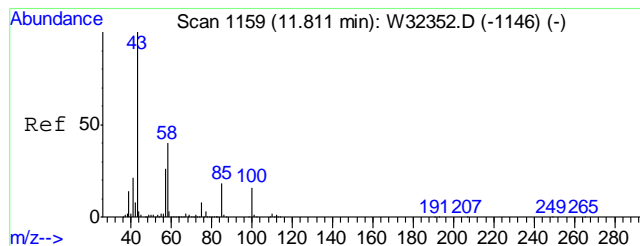
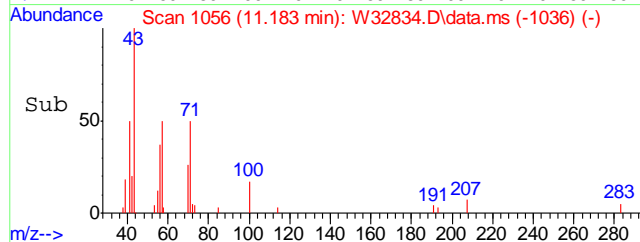
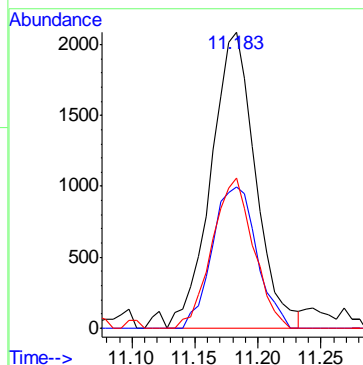
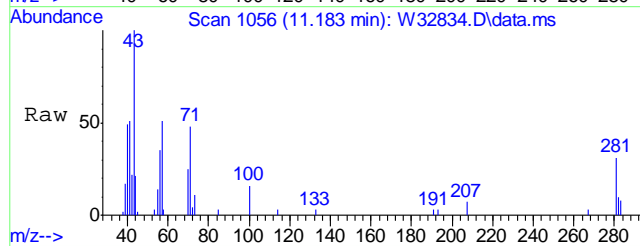
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	4.7	44.7
52	16.5	0.0	35.9





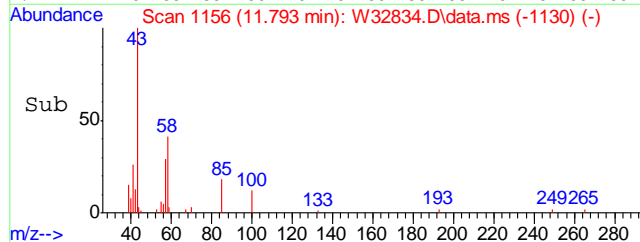
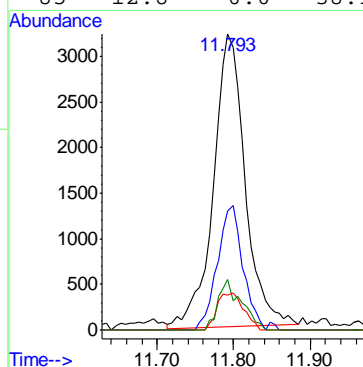
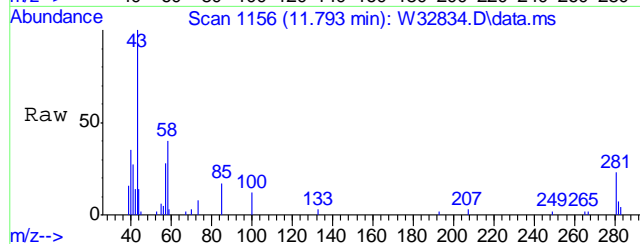
#62
HEPTANE
Concen: 0.13 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32834.D
Acq: 21 Jul 2011 1:34 pm

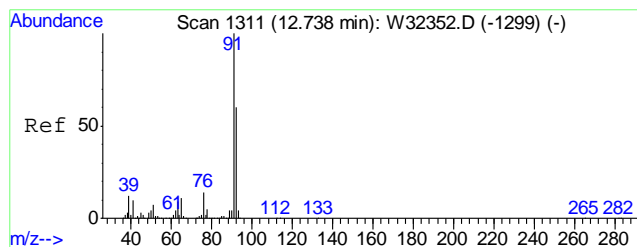
Tgt Ion: 43 Resp: 5080
Ion Ratio Lower Upper
43 100
71 48.0 41.6 81.6
57 47.3 34.6 74.6



#64
METHYL ISOBUTYL KETONE
Concen: 0.22 PPBV
RT: 11.793 min Scan# 1156
Delta R.T. -0.018 min
Lab File: W32834.D
Acq: 21 Jul 2011 1:34 pm

Tgt Ion: 43 Resp: 9178
Ion Ratio Lower Upper
43 100
58 34.3 20.7 60.7
100 10.7 0.0 36.0
85 12.8 0.0 38.1





#66

TOLUENE

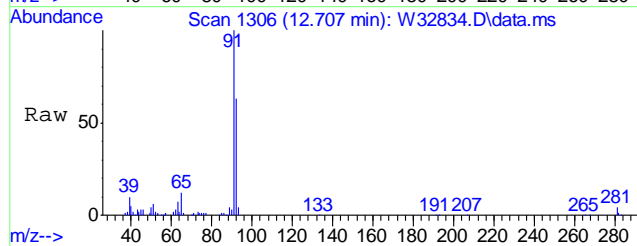
Concen: 0.88 PPBV

RT: 12.707 min Scan# 1306

Delta R.T. -0.031 min

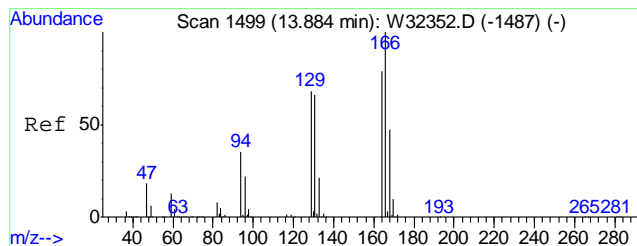
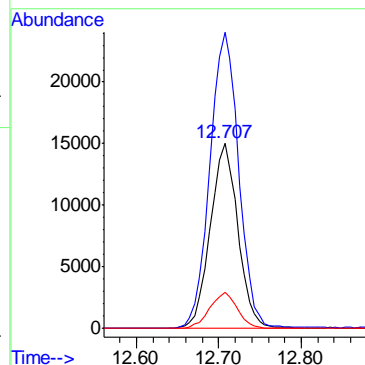
Lab File: W32834.D

Acq: 21 Jul 2011 1:34 pm



Tgt Ion: 92 Resp: 35134

Ion	Ratio	Lower	Upper
92	100		
91	166.9	146.2	186.2
65	19.2	0.4	40.4



#72

TETRACHLOROETHYLENE

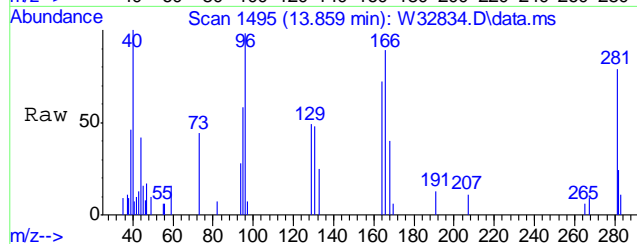
Concen: 0.06 PPBV

RT: 13.859 min Scan# 1495

Delta R.T. -0.024 min

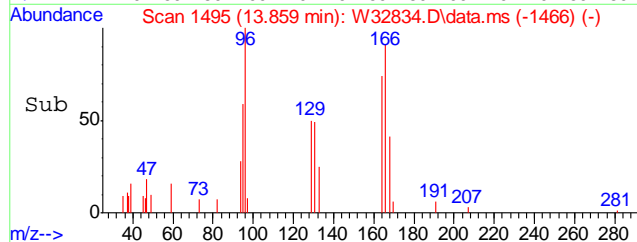
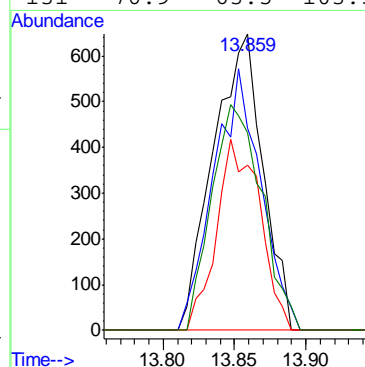
Lab File: W32834.D

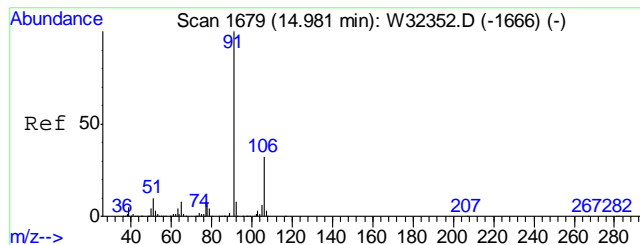
Acq: 21 Jul 2011 1:34 pm



Tgt Ion: 164 Resp: 1563

Ion	Ratio	Lower	Upper
164	100		
129	83.9	66.3	106.3
168	56.0	41.0	81.0
131	76.9	63.5	103.5





#78

ETHYLBENZENE

Concen: 0.10 PPBV

RT: 14.944 min Scan# 1673

Delta R.T. -0.037 min

Lab File: W32834.D

Acq: 21 Jul 2011 1:34 pm

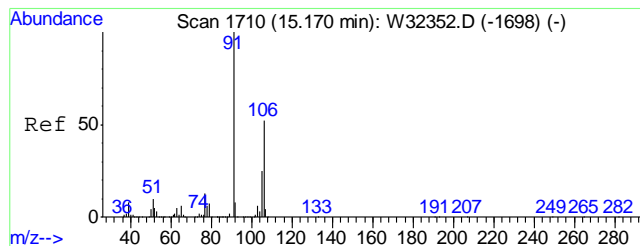
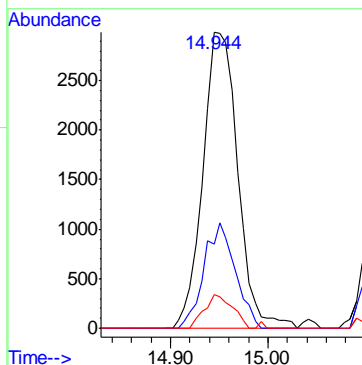
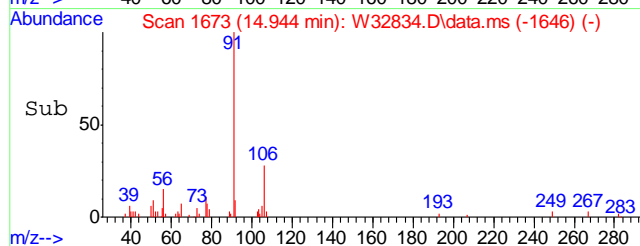
Tgt Ion: 91 Resp: 7419

Ion Ratio Lower Upper

91 100

106 31.9 11.7 51.7

77 9.1 0.0 28.1



#79

m,p-XYLENE

Concen: 0.32 PPBV

RT: 15.133 min Scan# 1704

Delta R.T. -0.037 min

Lab File: W32834.D

Acq: 21 Jul 2011 1:34 pm

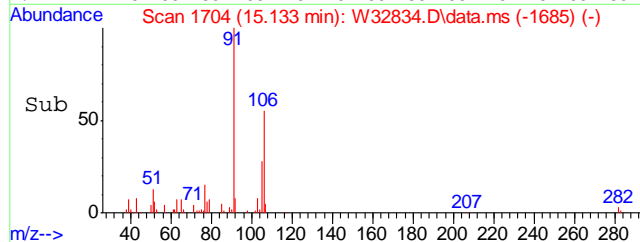
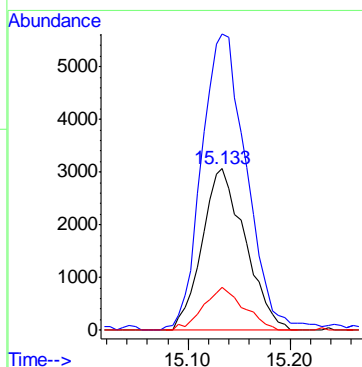
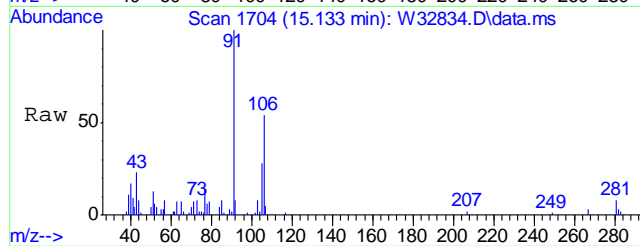
Tgt Ion: 106 Resp: 8978

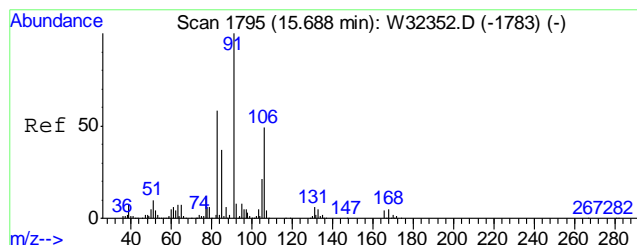
Ion Ratio Lower Upper

106 100

91 183.7 152.6 228.8

77 26.3 19.9 29.9





#80

o-XYLENE

Concen: 0.12 PPBV

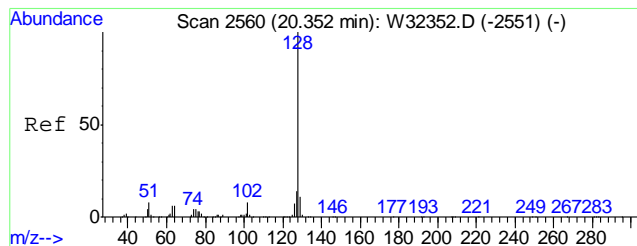
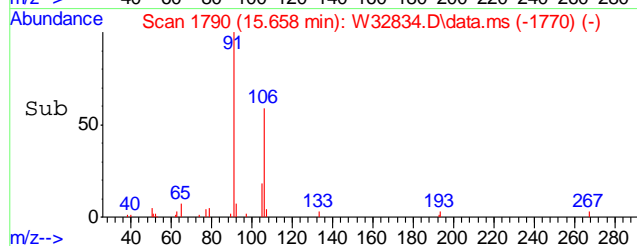
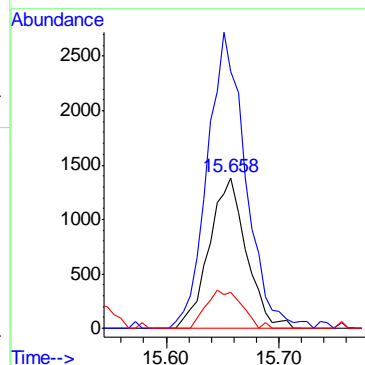
RT: 15.658 min Scan# 1790

Delta R.T. -0.031 min

Lab File: W32834.D

Acq: 21 Jul 2011 1:34 pm

Tgt Ion:	106	Resp:	3152
Ion Ratio	Lower	Upper	
106	100		
91	203.3	182.1	222.1
77	24.3	4.0	44.0



#107

NAPHTHALENE

Concen: 0.70 PPBV

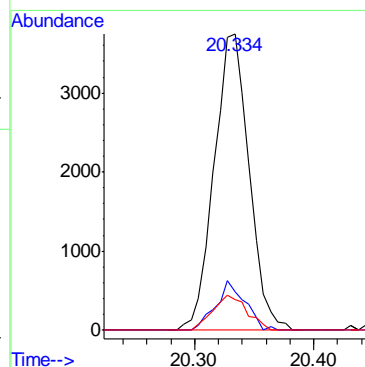
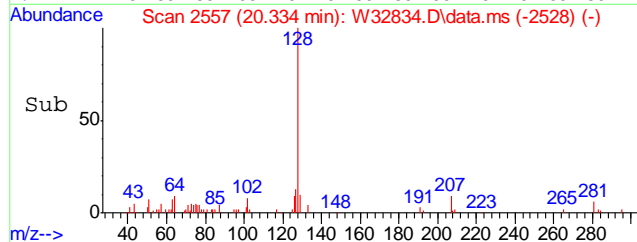
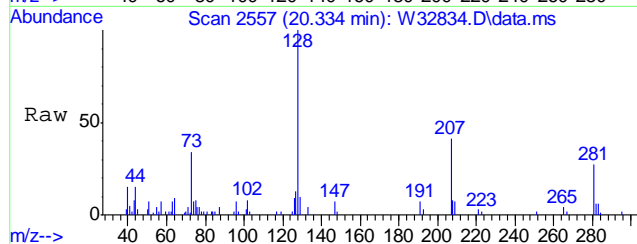
RT: 20.334 min Scan# 2557

Delta R.T. -0.018 min

Lab File: W32834.D

Acq: 21 Jul 2011 1:34 pm

Tgt Ion:	128	Resp:	7683
Ion Ratio	Lower	Upper	
128	100		
127	13.8	0.0	34.3
129	11.4	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
 Data File : W32814.D
 Acq On : 20 Jul 2011 6:53 pm
 Operator : YOUMINH
 Sample : JA81330-7
 Misc : MS15514,VW1341,400,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 00:25:19 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

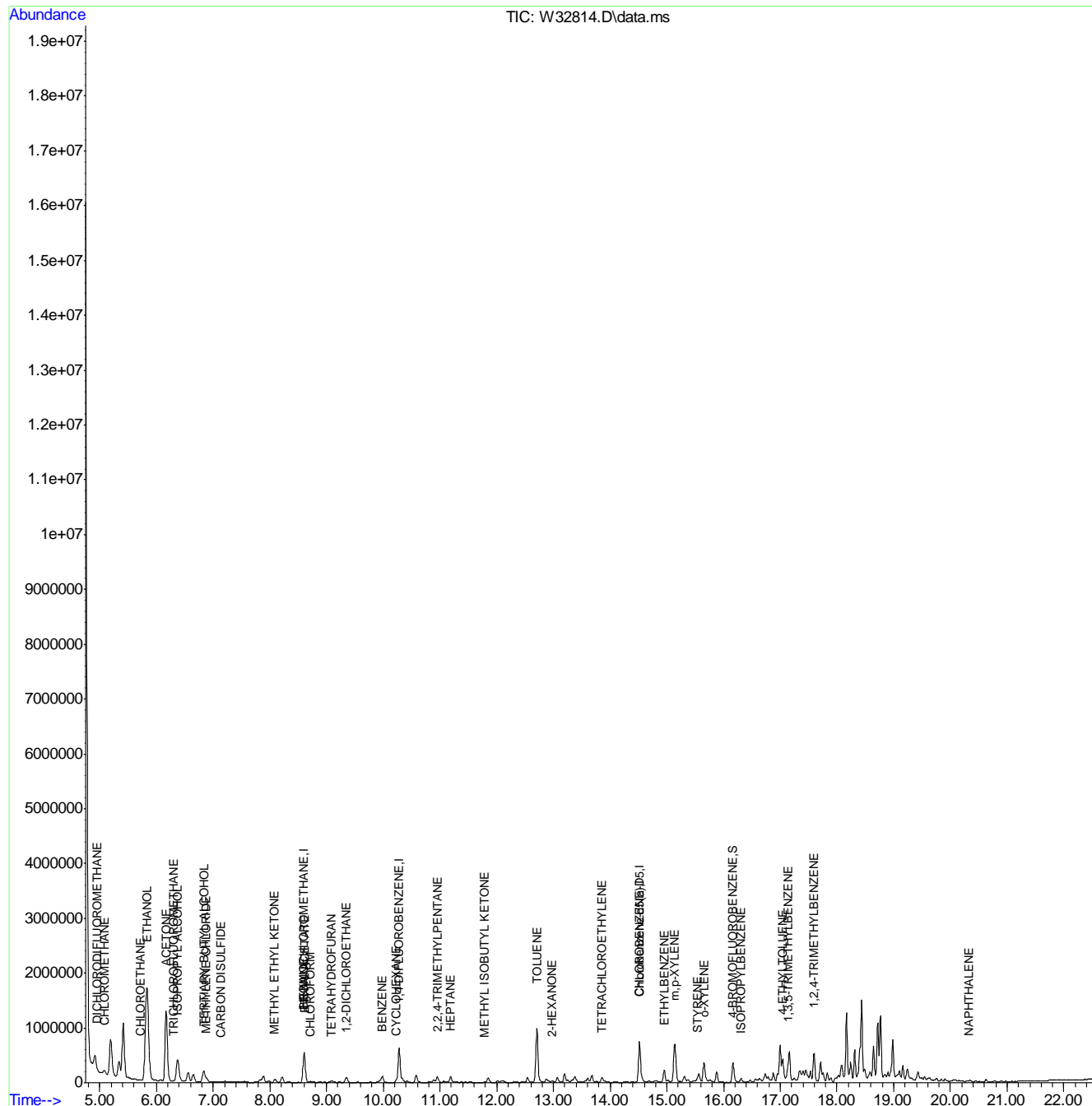
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.598	128	153360	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.281	114	766789	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	333407	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	330092	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	174493	4.84	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	96.80%
Target Compounds						
						Qvalue
5) DICHLORODIFLUOROMETHANE	4.953	85	21876	0.49	PPBV	99
8) CHLOROMETHANE	5.087	52	4857	0.83	PPBV	96
13) CHLOROETHANE	5.715	64	1115	0.10	PPBV	83
18) TRICHLOROFLUOROMETHANE	6.300	101	13109	0.30	PPBV	100
19) ISOPROPYL ALCOHOL	6.373	45	920008	24.62	PPBV	99
20) ACETONE	6.172	58	797650	81.30	PPBV #	77
26) CARBON DISULFIDE	7.141	76	13193	0.28	PPBV #	83
27) ETHANOL	5.830	45	4022237	409.83	PPBV	97
30) METHYLENE CHLORIDE	6.873	84	4819	0.26	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.836	59	357046	8.25	PPBV	89
36) TETRAHYDROFURAN	9.086	72	8718	0.97	PPBV #	89
37) HEXANE	8.604	57	85783	2.57	PPBV #	81
40) METHYL ETHYL KETONE	8.086	72	30056	3.27	PPBV #	79
43) ETHYL ACETATE	8.616	61	30667	5.15	PPBV #	1
45) CHLOROFORM	8.714	83	7883	0.22	PPBV	98
49) 1,2-DICHLOROETHANE	9.348	62	15784	0.76	PPBV	99
51) BENZENE	9.982	78	138588	2.37	PPBV	97
52) CYCLOHEXANE	10.226	84	25847	0.88	PPBV	92
59) 2,2,4-TRIMETHYLPENTANE	10.951	57	117072	1.16	PPBV	92
62) HEPTANE	11.189	43	63655	1.69	PPBV	97
64) METHYL ISOBUTYL KETONE	11.793	43	8931	0.22	PPBV	97
66) TOLUENE	12.713	92	619074	15.77	PPBV	99
71) 2-HEXANONE	12.975	43	13126	0.40	PPBV	98
72) TETRACHLOROETHYLENE	13.859	164	24357	1.10	PPBV	95
78) ETHYLBENZENE	14.957	91	254491	3.84	PPBV	99
79) m,p-XYLENE	15.133	106	367419	14.29	PPBV	95
80) o-XYLENE	15.658	106	147918	5.96	PPBV	96
81) STYRENE	15.542	104	14741	0.42	PPBV	98
87) ISOPROPYLBENZENE	16.310	105	50472	0.72	PPBV	98
91) 4-ETHYLTOLUENE	17.042	105	304742	5.24	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.133	105	139684	2.91	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	373909	8.49	PPBV #	32
107) NAPHTHALENE	20.328	128	11917	1.21	PPBV	94

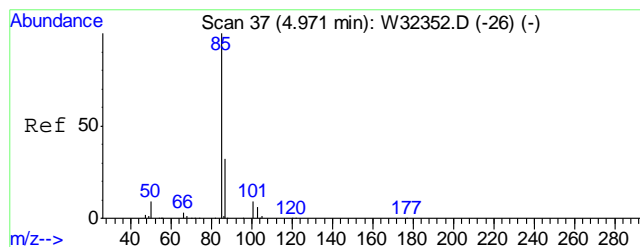
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32814.D
Acq On : 20 Jul 2011 6:53 pm
Operator : YOUMINH
Sample : JA81330-7
Misc : MS15514,VW1341,400,,,1
ALS Vial : 15 Sample Multiplier: 1

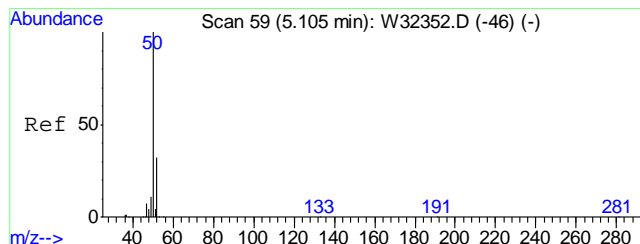
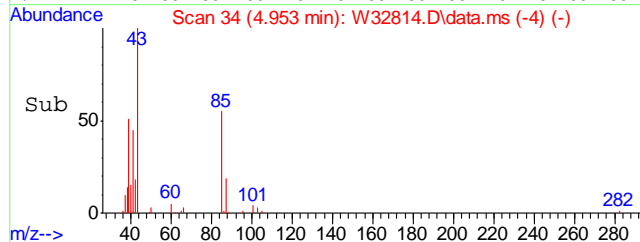
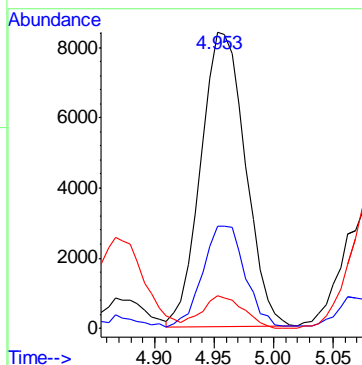
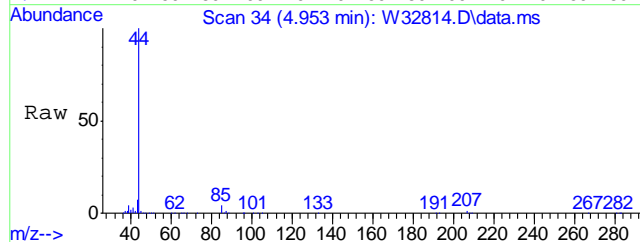
Quant Time: Aug 17 00:25:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





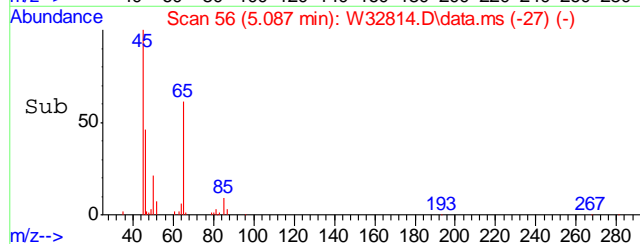
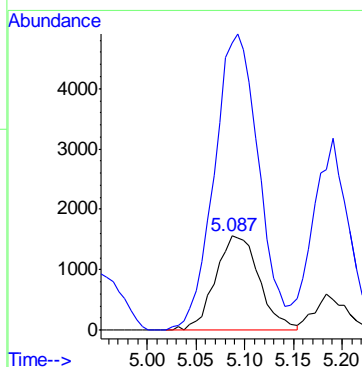
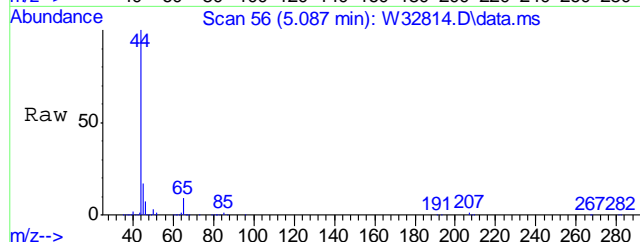
#5
DICHLORODIFLUOROMETHANE
Concen: 0.49 PPBV
RT: 4.953 min Scan# 34
Delta R.T. -0.018 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

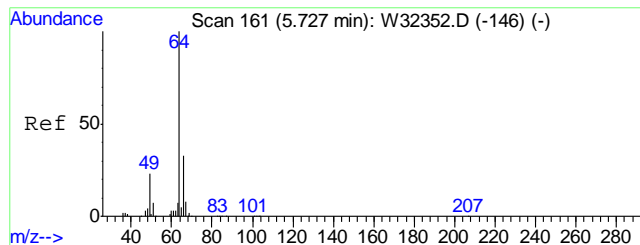
Tgt Ion:	85	Resp:	21876
Ion Ratio	Lower	Upper	
85	100		
87	32.7	12.0	52.0
50	10.3	0.0	30.7



#8
CHLOROMETHANE
Concen: 0.83 PPBV
RT: 5.087 min Scan# 56
Delta R.T. -0.018 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

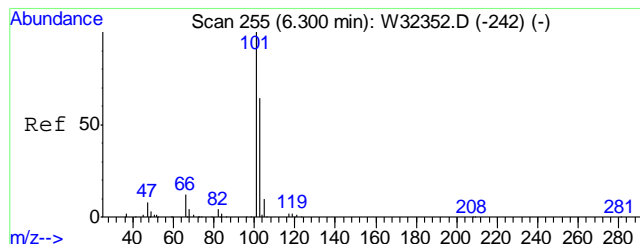
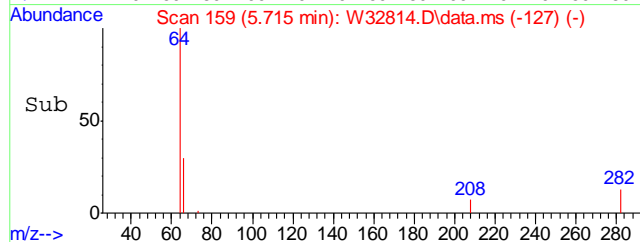
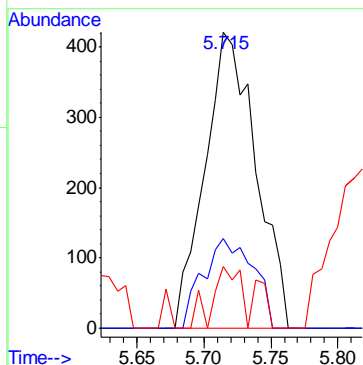
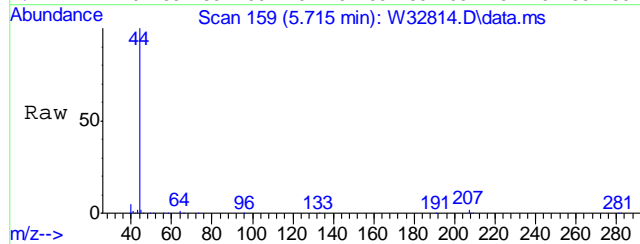
Tgt Ion:	52	Resp:	4857
Ion Ratio	Lower	Upper	
52	100		
50	296.3	268.6	308.6





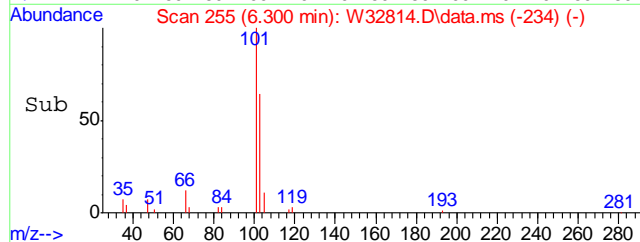
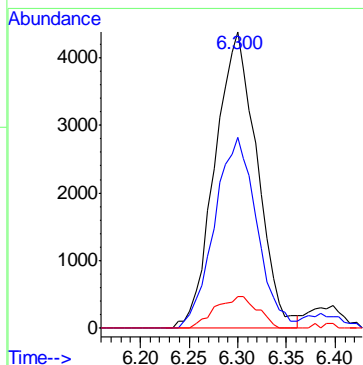
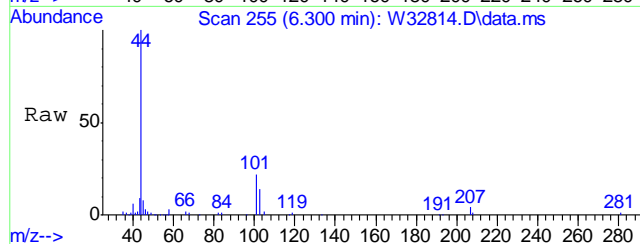
#13
CHLOROETHANE
Concen: 0.10 PPBV
RT: 5.715 min Scan# 159
Delta R.T. -0.012 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

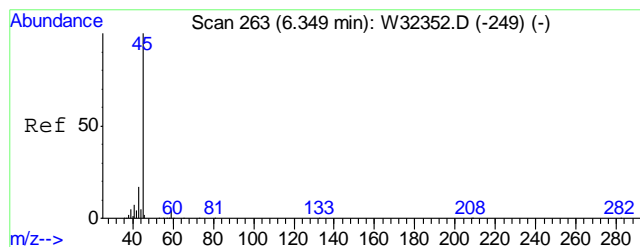
Tgt Ion: 64	Resp: 1115
Ion Ratio	Lower Upper
64 100	
66 29.8	14.5 54.5
49 11.4	5.7 45.7



#18
TRICHLOROFLUOROMETHANE
Concen: 0.30 PPBV
RT: 6.300 min Scan# 255
Delta R.T. 0.000 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

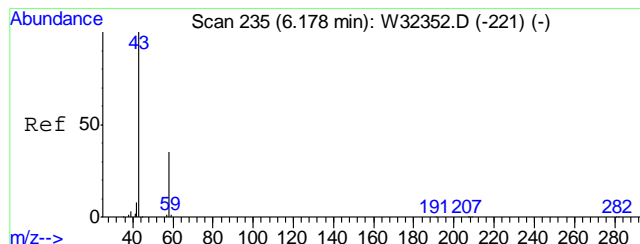
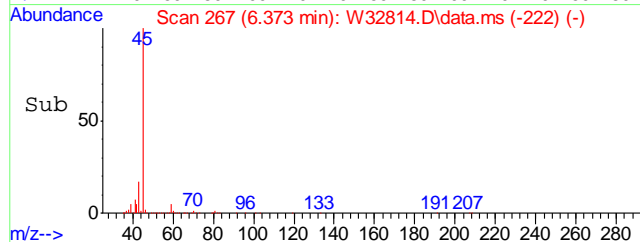
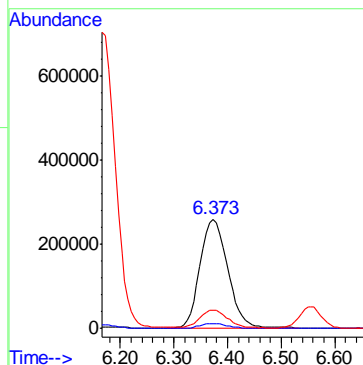
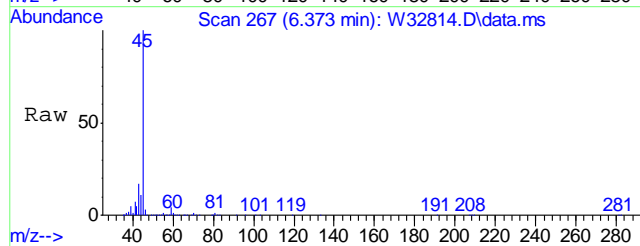
Tgt Ion: 101	Resp: 13109
Ion Ratio	Lower Upper
101 100	
103 65.0	44.9 84.9
105 10.8	0.0 30.4





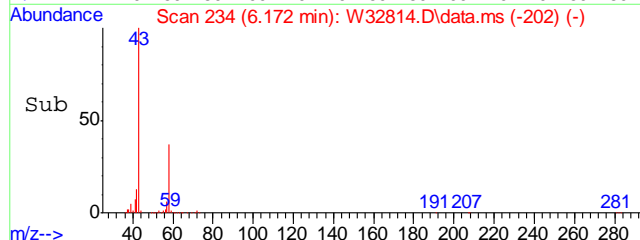
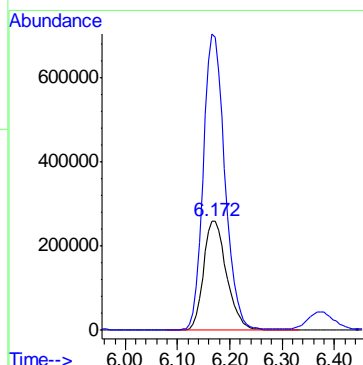
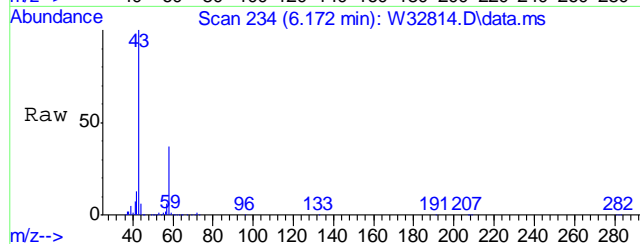
#19
ISOPROPYL ALCOHOL
Concen: 24.62 PPBV
RT: 6.373 min Scan# 267
Delta R.T. 0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

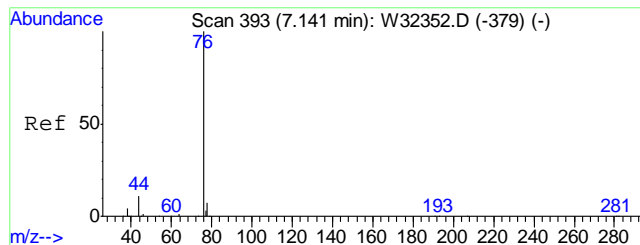
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.5	0.0	24.3
43	16.9	0.0	37.5



#20
ACETONE
Concen: 81.30 PPBV
RT: 6.172 min Scan# 234
Delta R.T. -0.006 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

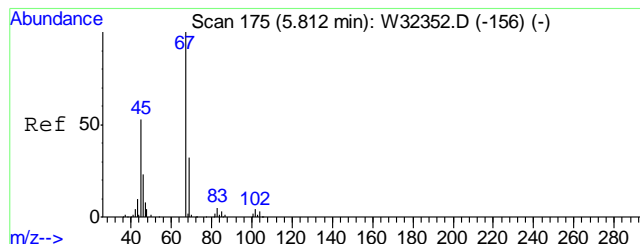
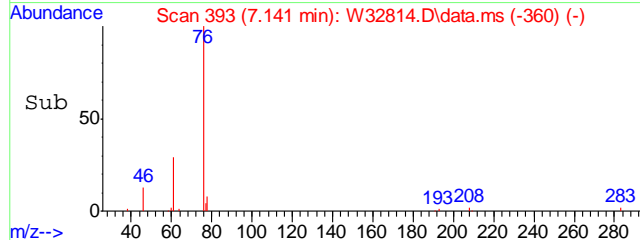
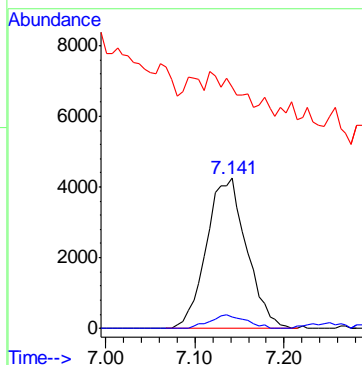
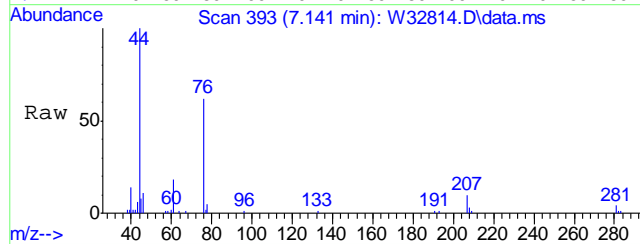
Tgt Ion	Ratio	Lower	Upper
58	100		
43	253.3	277.6	317.6#





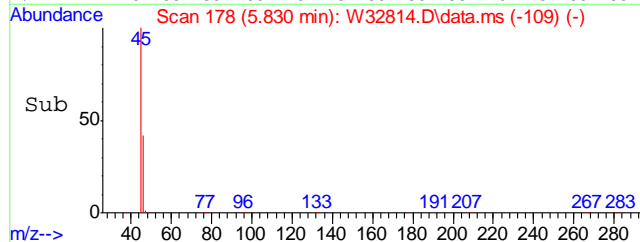
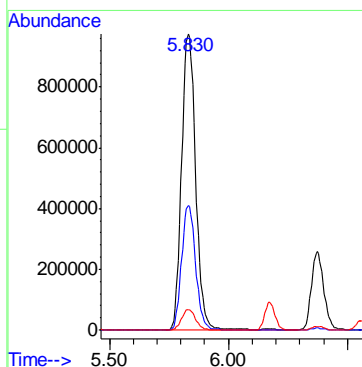
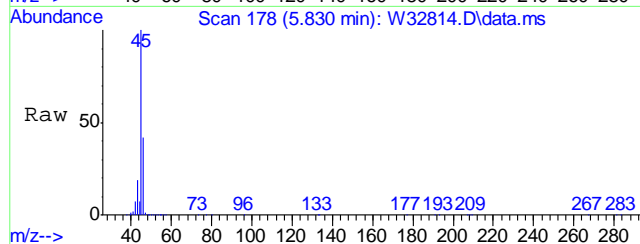
#26
CARBON DISULFIDE
Concen: 0.28 PPBV
RT: 7.141 min Scan# 393
Delta R.T. 0.000 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

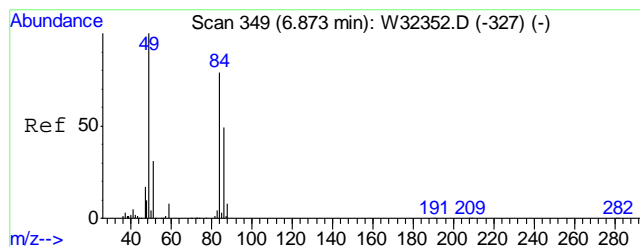
Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.0	0.0	28.9
44	0.0	0.0	31.0



#27
ETHANOL
Concen: 409.83 PPBV
RT: 5.830 min Scan# 178
Delta R.T. 0.018 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

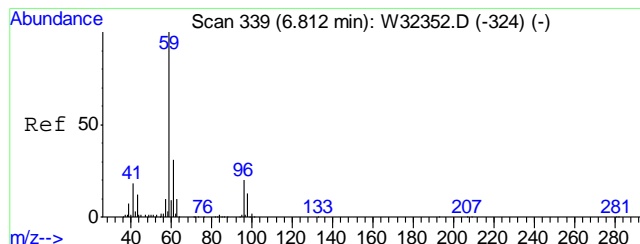
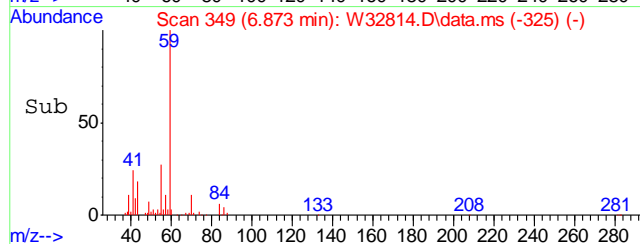
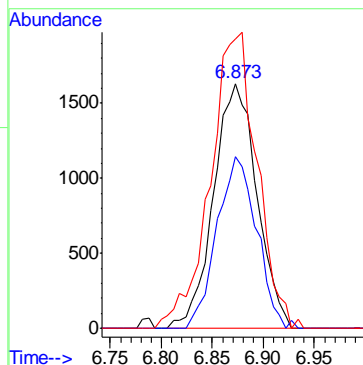
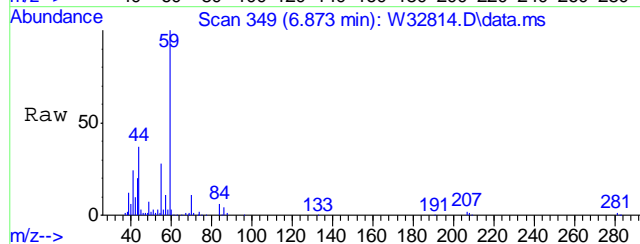
Tgt Ion	Ratio	Lower	Upper
45	100		
46	41.8	20.6	60.6
42	6.9	0.0	28.7





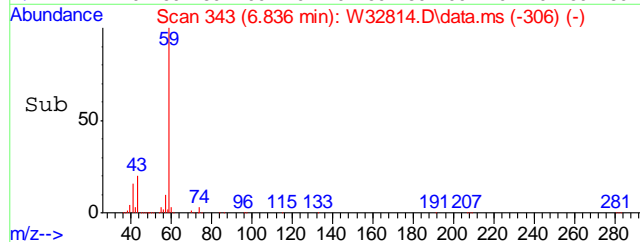
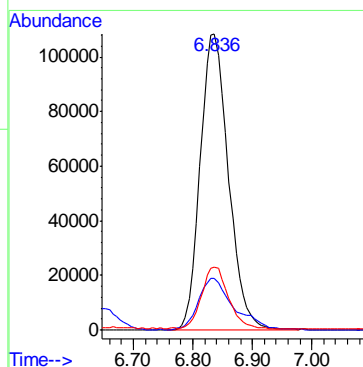
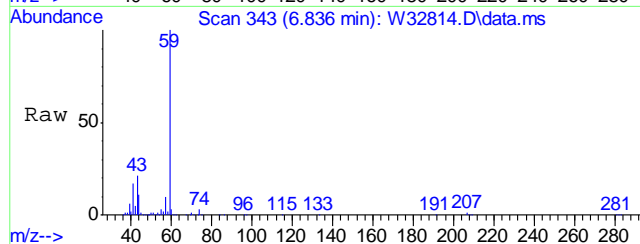
#30
METHYLENE CHLORIDE
Concen: 0.26 PPBV
RT: 6.873 min Scan# 349
Delta R.T. 0.000 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

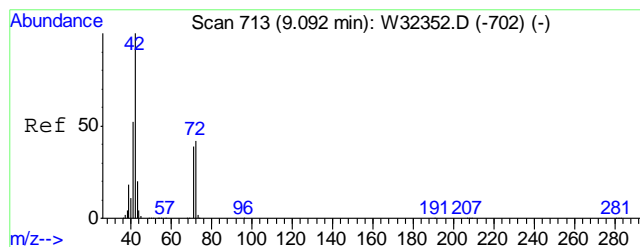
Tgt Ion	Ratio	Lower	Upper
84	100		
86	64.1	42.9	82.9
49	130.1	0.0	324.2



#34
TERTIARY BUTYL ALCOHOL
Concen: 8.25 PPBV
RT: 6.836 min Scan# 343
Delta R.T. 0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

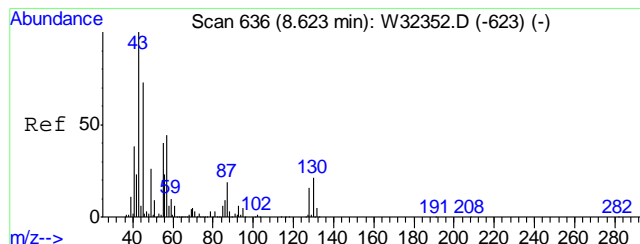
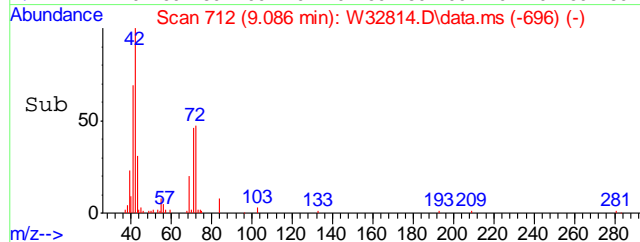
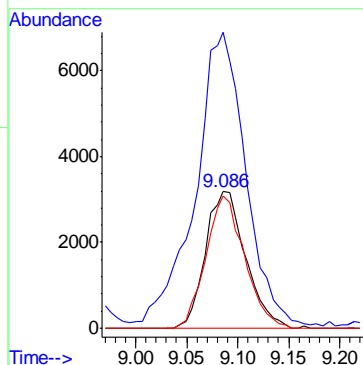
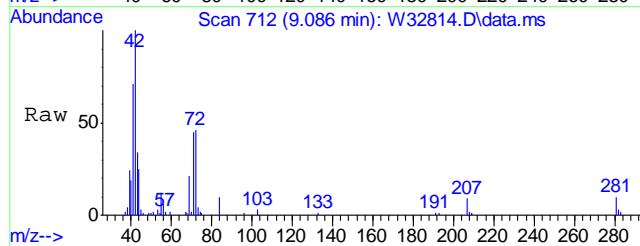
Tgt Ion	Ratio	Lower	Upper
59	100		
41	21.7	0.0	39.2
43	19.9	0.0	32.1





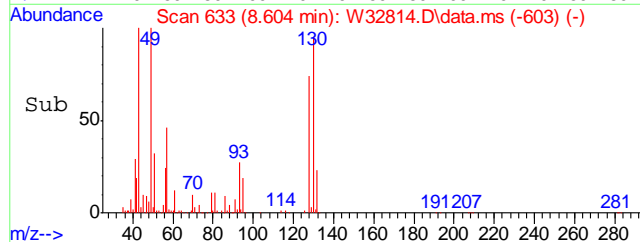
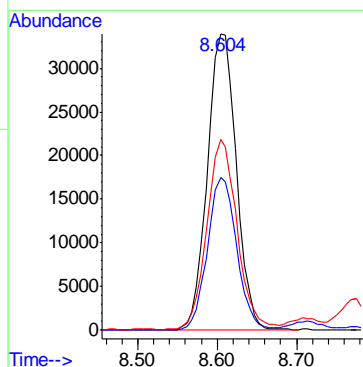
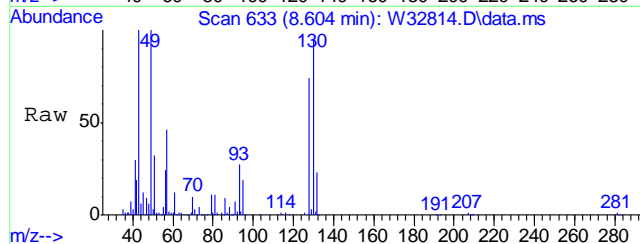
#36
TETRAHYDROFURAN
Concen: 0.97 PPBV
RT: 9.086 min Scan# 712
Delta R.T. -0.006 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

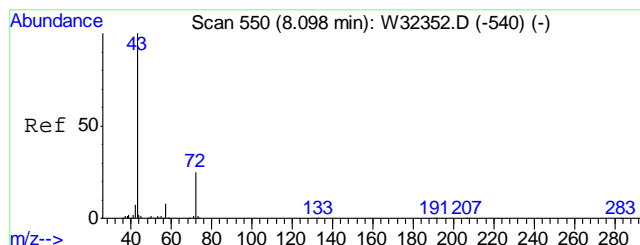
Tgt Ion: 72 Resp: 8718
Ion Ratio Lower Upper
72 100
42 266.4 220.0 260.0#
71 93.5 74.2 114.2



#37
HEXANE
Concen: 2.57 PPBV
RT: 8.604 min Scan# 633
Delta R.T. -0.018 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

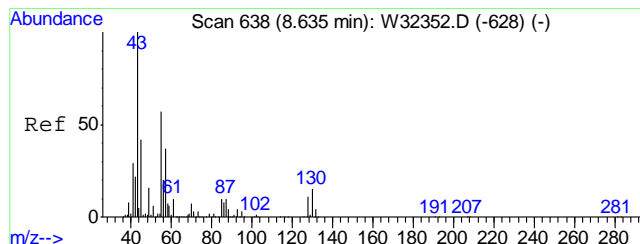
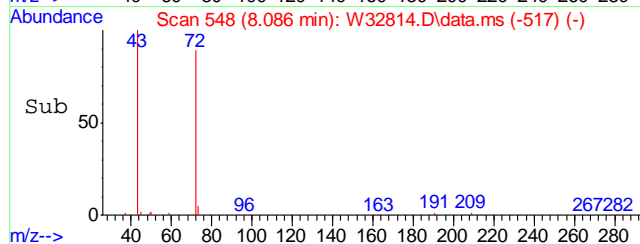
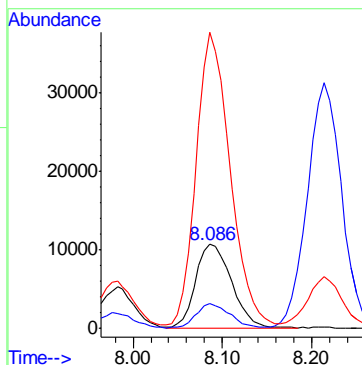
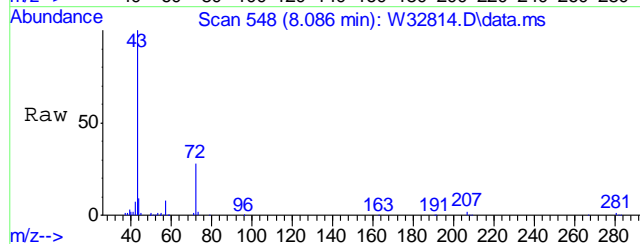
Tgt Ion: 57 Resp: 85783
Ion Ratio Lower Upper
57 100
56 52.1 33.7 73.7
41 67.1 74.5 114.5#





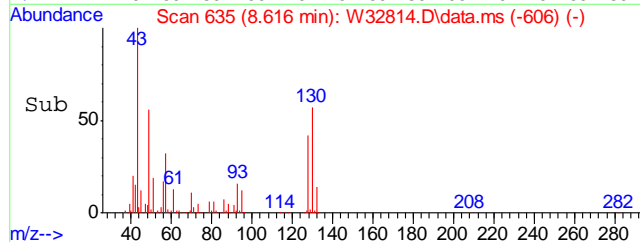
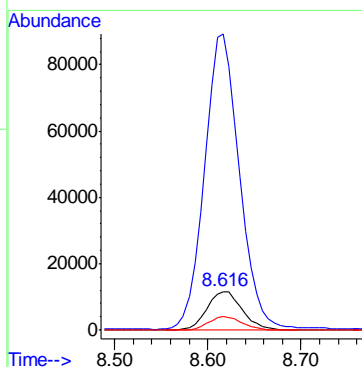
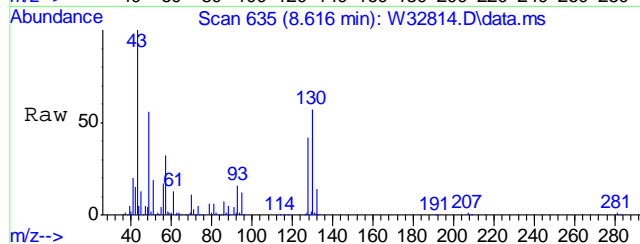
#40
METHYL ETHYL KETONE
Concen: 3.27 PPBV
RT: 8.086 min Scan# 548
Delta R.T. -0.012 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

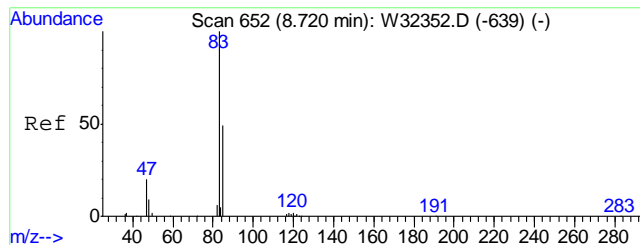
Tgt Ion: 72 Resp: 30056
Ion Ratio Lower Upper
72 100
57 29.5 11.1 51.1
43 352.6 386.1 426.1#



#43
ETHYL ACETATE
Concen: 5.15 PPBV
RT: 8.616 min Scan# 635
Delta R.T. -0.018 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

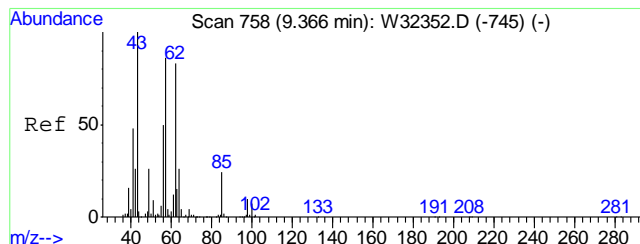
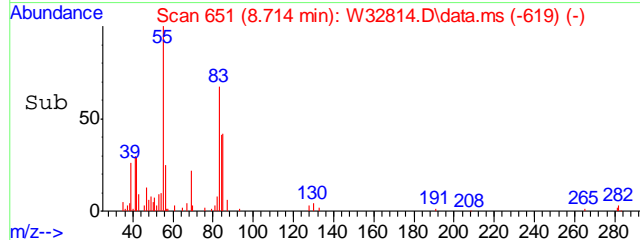
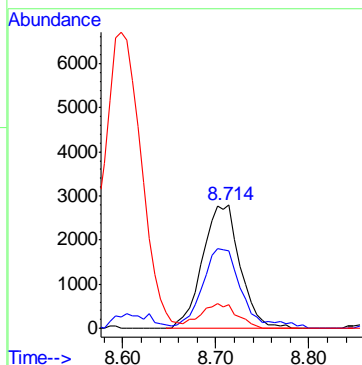
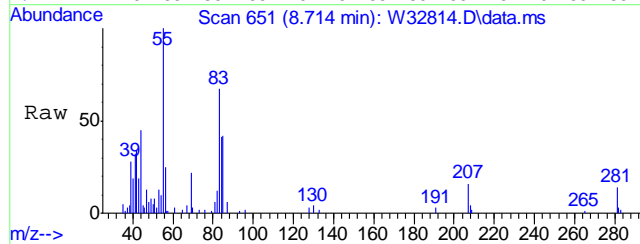
Tgt Ion: 61 Resp: 30667
Ion Ratio Lower Upper
61 100
43 761.3 1488.2 1528.2#
88 33.6 27.8 67.8





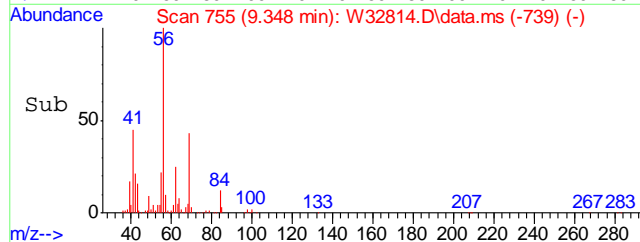
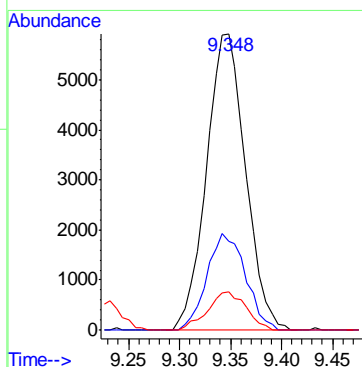
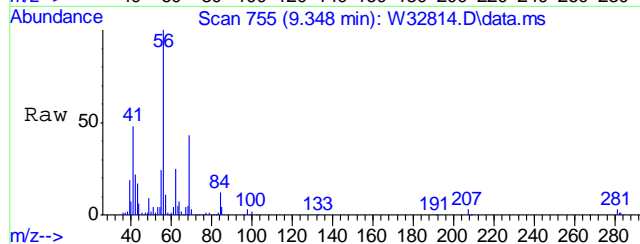
#45
CHLOROFORM
Concen: 0.22 PPBV
RT: 8.714 min Scan# 651
Delta R.T. -0.006 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

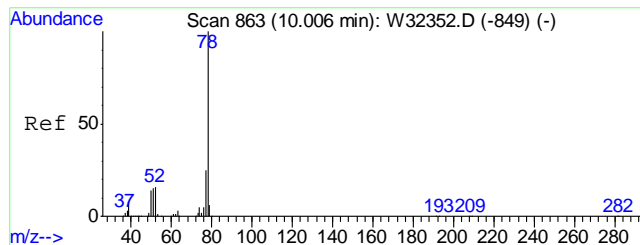
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	44.6	84.6
47	19.5	2.6	42.6



#49
1,2-DICHLOROETHANE
Concen: 0.76 PPBV
RT: 9.348 min Scan# 755
Delta R.T. -0.018 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

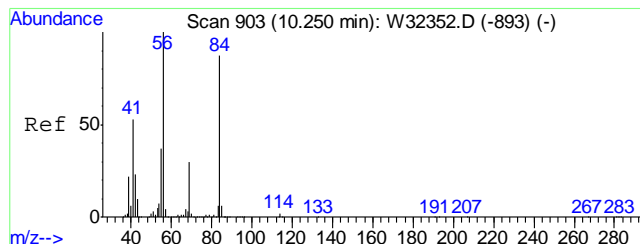
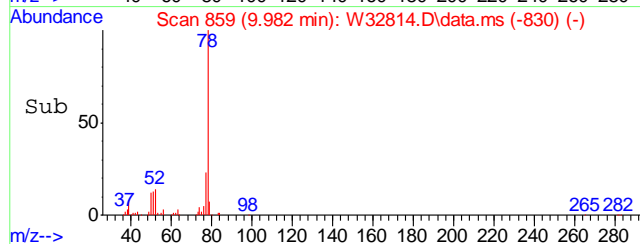
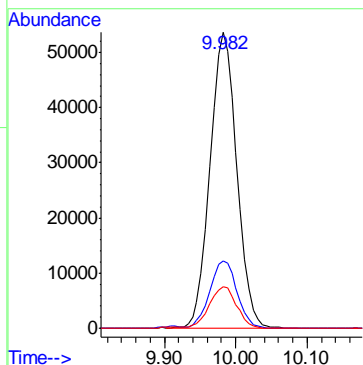
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.1	12.3	52.3
98	12.7	0.0	32.0





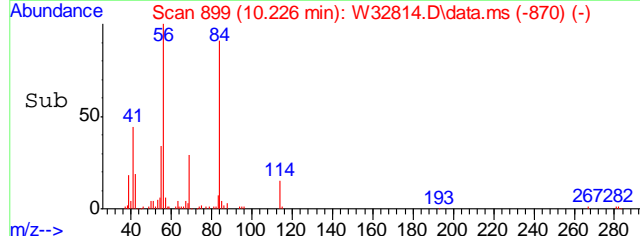
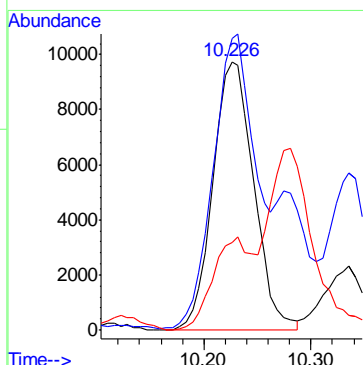
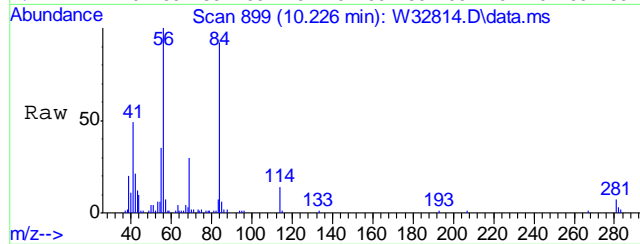
#51
BENZENE
Concen: 2.37 PPBV
RT: 9.982 min Scan# 859
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

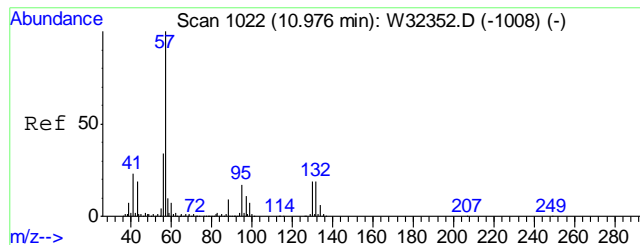
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	4.7	44.7
52	14.4	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.88 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

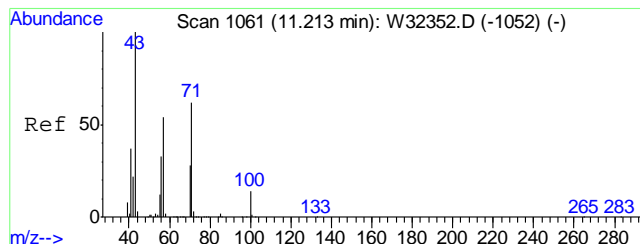
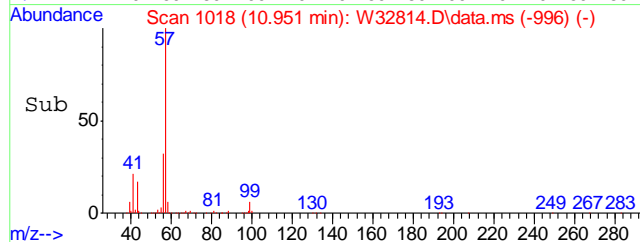
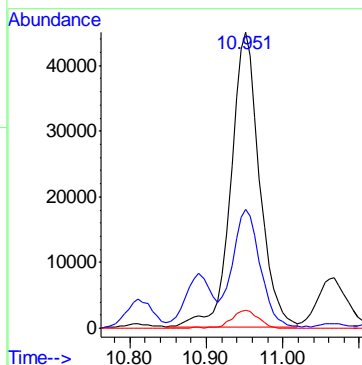
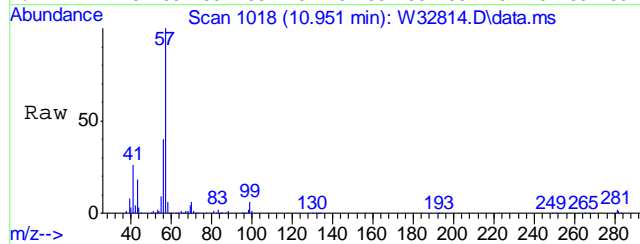
Tgt Ion	Ratio	Lower	Upper
84	100		
56	114.5	102.7	142.7
69	34.9	20.8	60.8





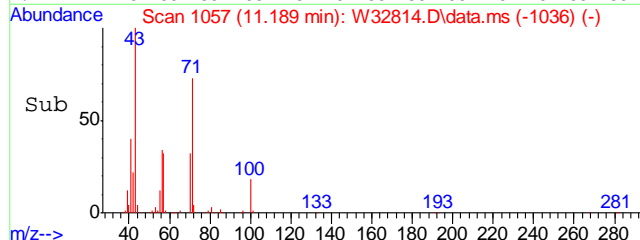
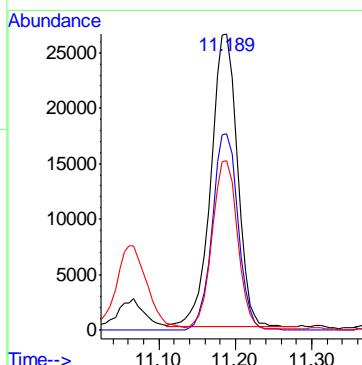
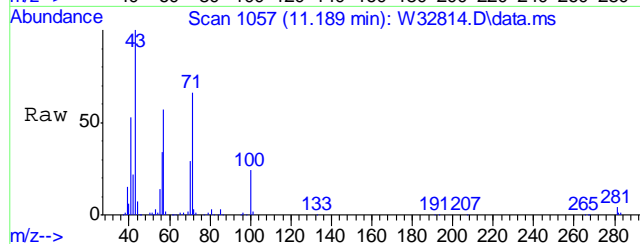
#59
2,2,4-TRIMETHYLPENTANE
Concen: 1.16 PPBV
RT: 10.951 min Scan# 1018
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

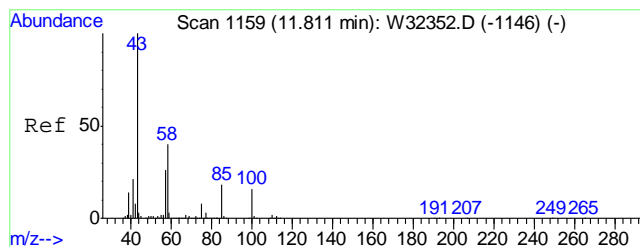
Tgt Ion	Ratio	Lower	Upper
57	100		
56	38.5	13.5	53.5
99	5.9	0.0	27.7



#62
HEPTANE
Concen: 1.69 PPBV
RT: 11.189 min Scan# 1057
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

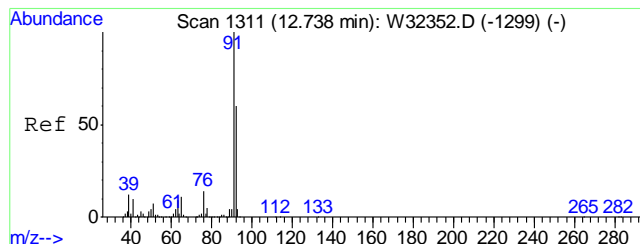
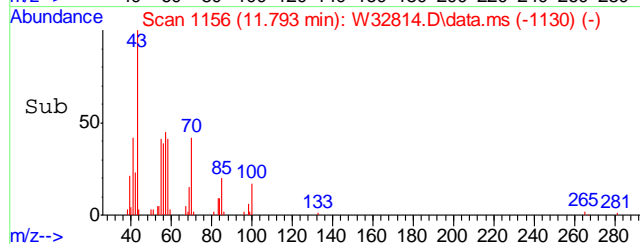
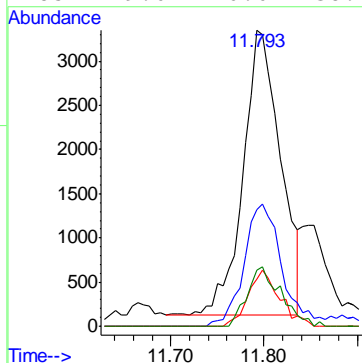
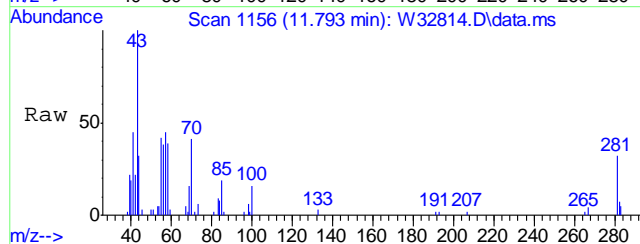
Tgt Ion	Ratio	Lower	Upper
43	100		
71	64.9	41.6	81.6
57	55.3	34.6	74.6





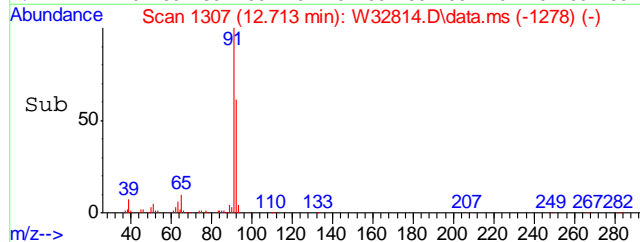
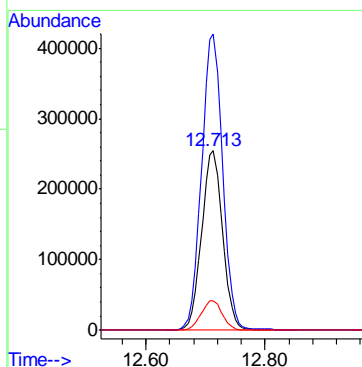
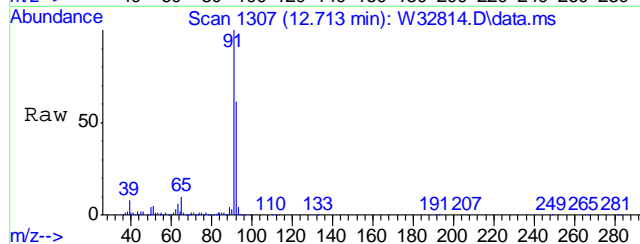
#64
METHYL ISOBUTYL KETONE
Concen: 0.22 PPBV
RT: 11.793 min Scan# 1156
Delta R.T. -0.018 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

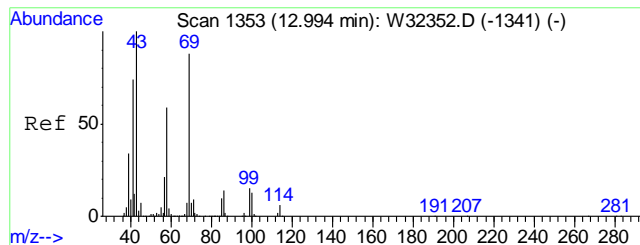
Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.5	20.7	60.7
100	16.6	0.0	36.0
85	19.0	0.0	38.1



#66
TOLUENE
Concen: 15.77 PPBV
RT: 12.713 min Scan# 1307
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

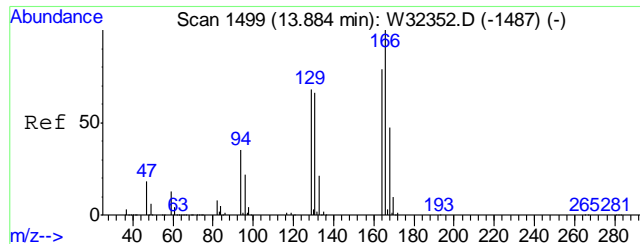
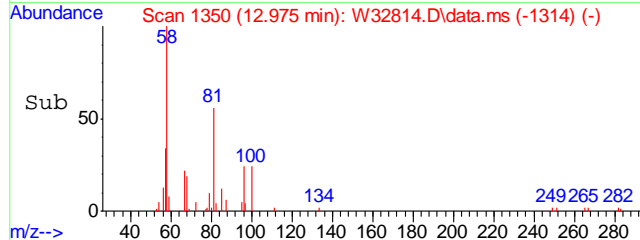
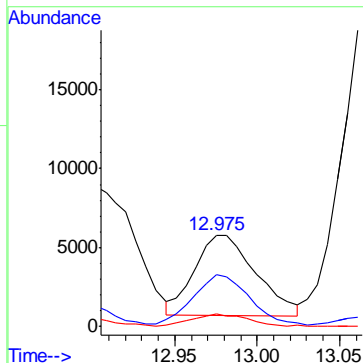
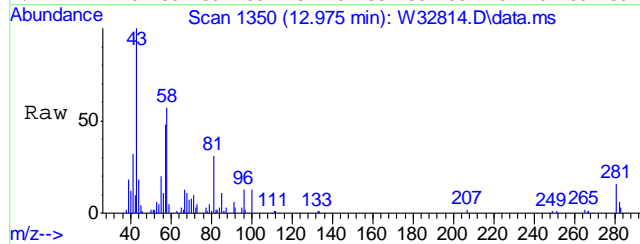
Tgt Ion	Ratio	Lower	Upper
92	100		
91	166.1	146.2	186.2
65	16.5	0.4	40.4





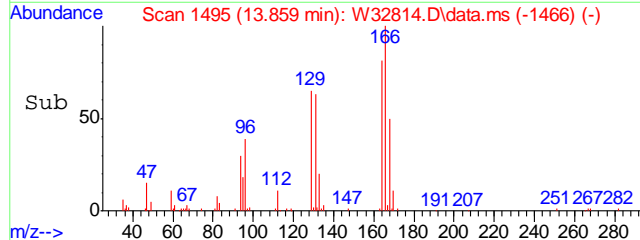
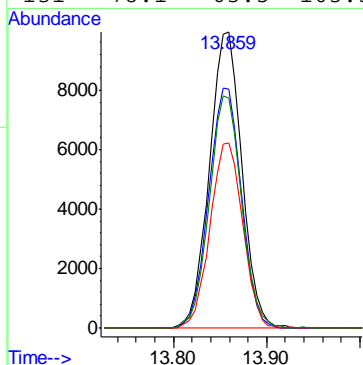
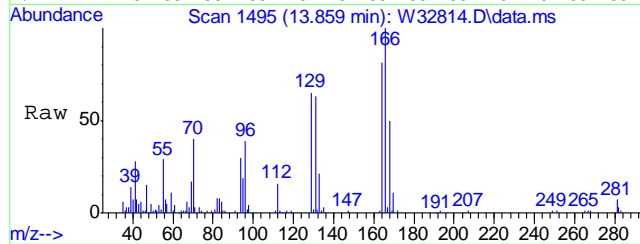
#71
2-HEXANONE
Concen: 0.40 PPBV
RT: 12.975 min Scan# 1350
Delta R.T. -0.018 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

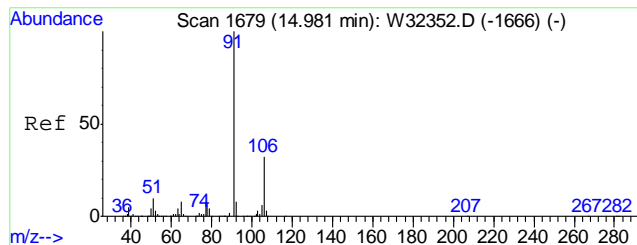
Tgt Ion: 43 Resp: 13126
Ion Ratio Lower Upper
43 100
58 60.7 39.4 79.4
100 14.0 0.0 33.6



#72
TETRACHLOROETHYLENE
Concen: 1.10 PPBV
RT: 13.859 min Scan# 1495
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

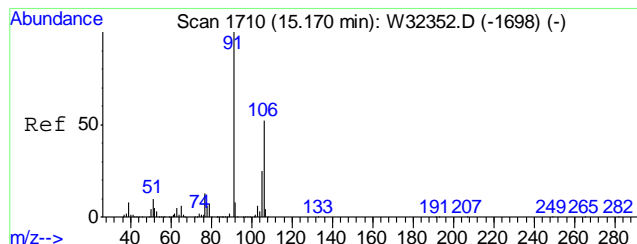
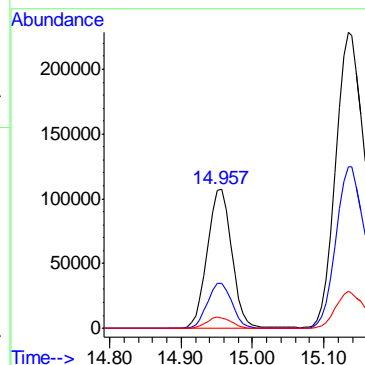
Tgt Ion: 164 Resp: 24357
Ion Ratio Lower Upper
164 100
129 81.5 66.3 106.3
168 63.1 41.0 81.0
131 78.1 63.5 103.5





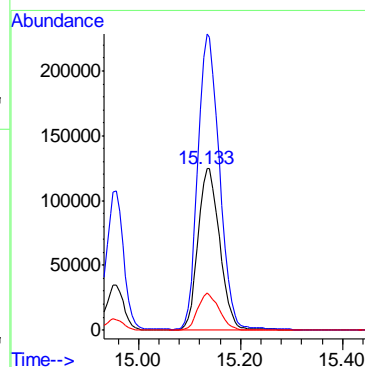
#78
ETHYLBENZENE
Concen: 3.84 PPBV
RT: 14.957 min Scan# 1675
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

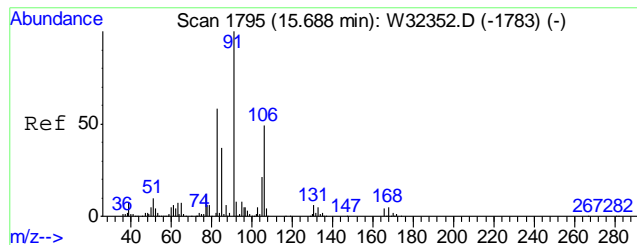
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.5	11.7	51.7
77	7.8	0.0	28.1



#79
m,p-XYLENE
Concen: 14.29 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

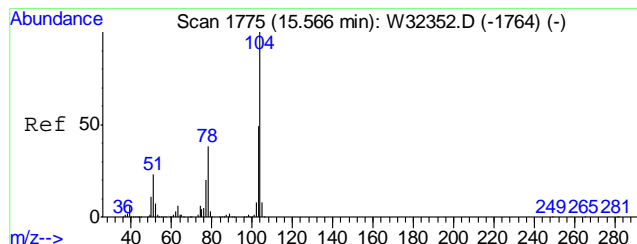
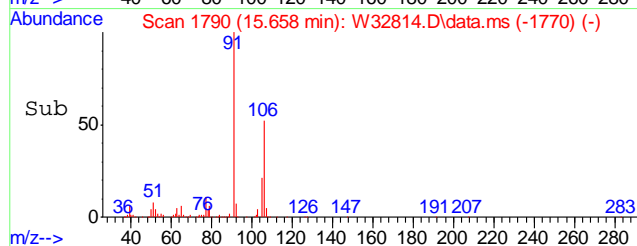
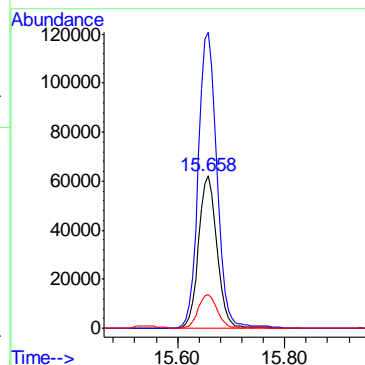
Tgt Ion	Ratio	Lower	Upper
106	100		
91	183.4	152.6	228.8
77	22.8	19.9	29.9





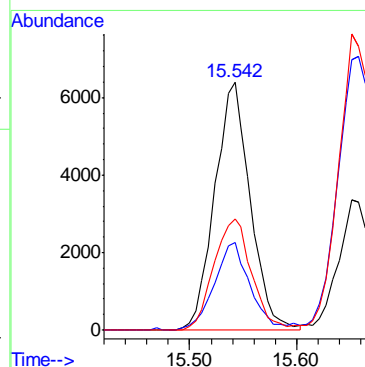
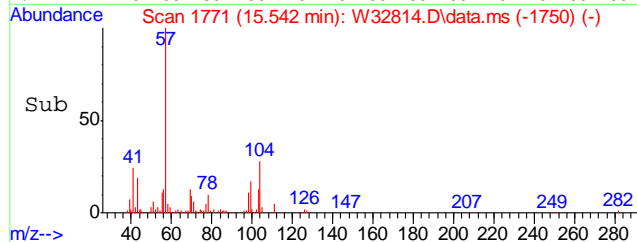
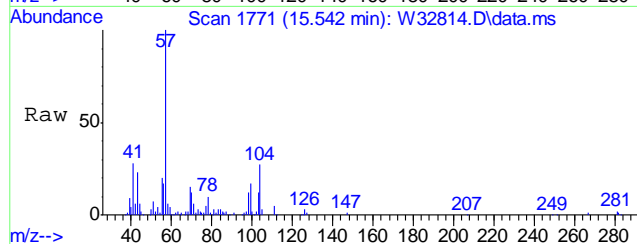
#80
o-XYLENE
Concen: 5.96 PPBV
RT: 15.658 min Scan# 1790
Delta R.T. -0.030 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

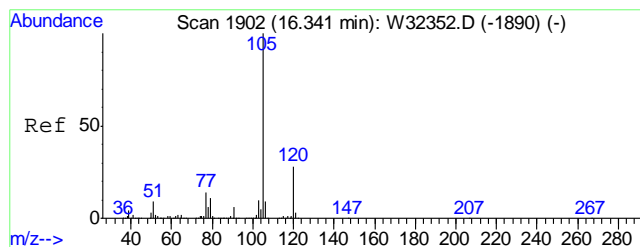
Tgt Ion	Ratio	Lower	Upper
106	100		
91	196.1	182.1	222.1
77	22.6	4.0	44.0



#81
STYRENE
Concen: 0.42 PPBV
RT: 15.542 min Scan# 1771
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

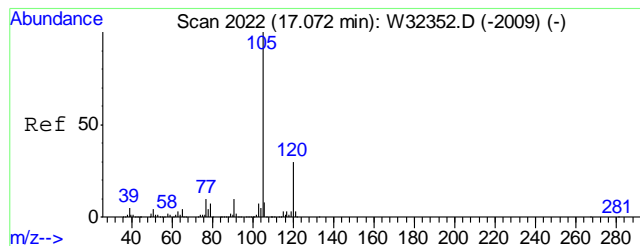
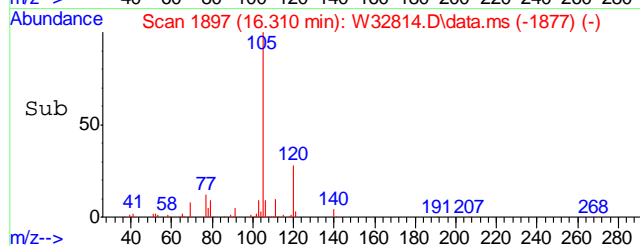
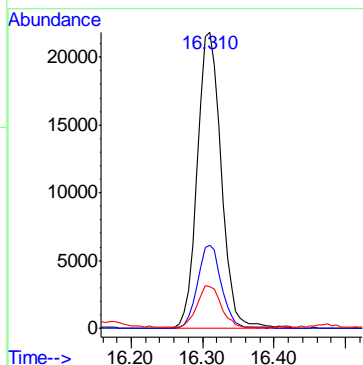
Tgt Ion	Ratio	Lower	Upper
104	100		
78	35.4	18.2	58.2
103	47.9	28.2	68.2





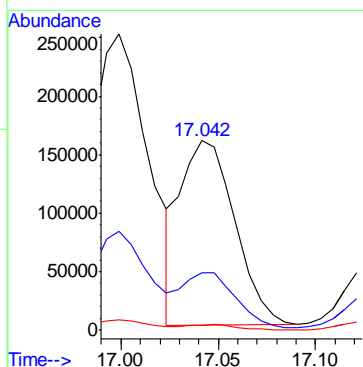
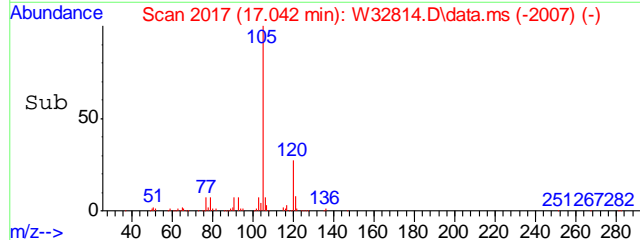
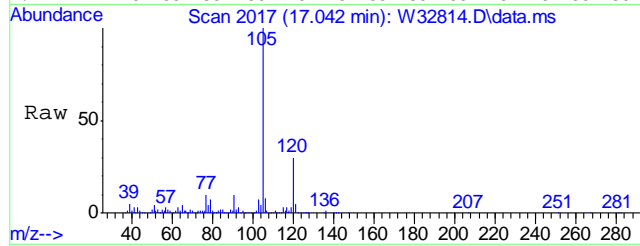
#87
ISOPROPYLBENZENE
Concen: 0.72 PPBV
RT: 16.310 min Scan# 1897
Delta R.T. -0.030 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

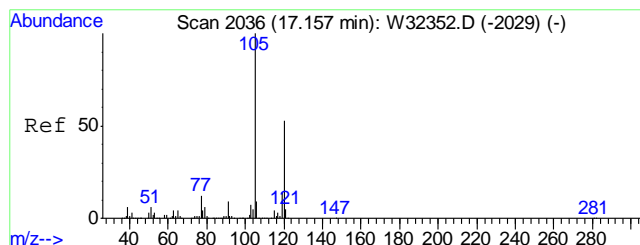
Tgt Ion:	105	Resp:	50472
Ion Ratio	Lower	Upper	
105	100		
120	28.0	6.9	46.9
77	14.9	0.0	33.9



#91
4-ETHYLTOLUENE
Concen: 5.24 PPBV
RT: 17.042 min Scan# 2017
Delta R.T. -0.030 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

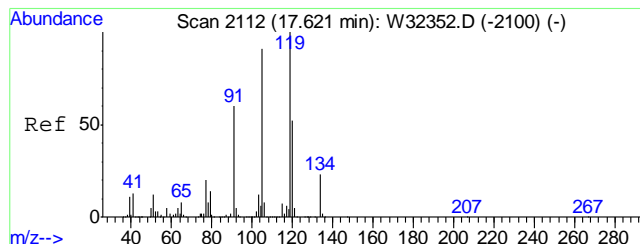
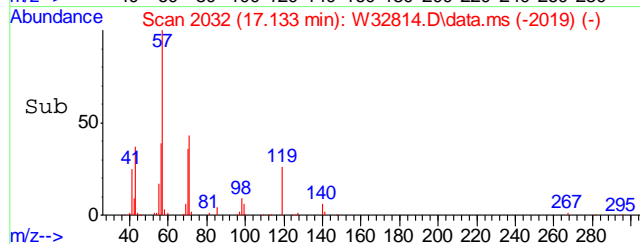
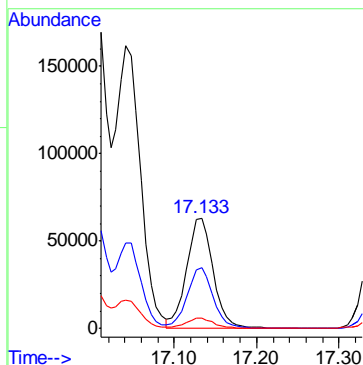
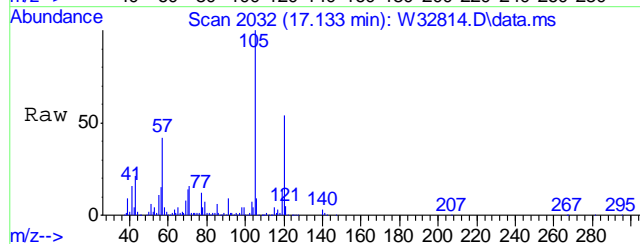
Tgt Ion:	105	Resp:	304742
Ion Ratio	Lower	Upper	
105	100		
120	30.4	9.8	49.8
119	2.3	0.0	22.9





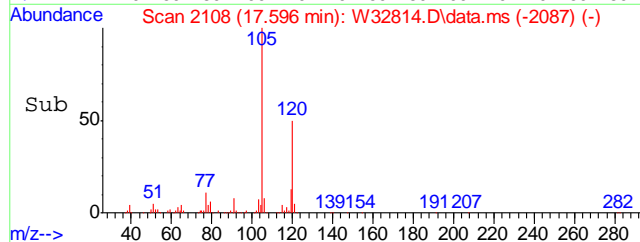
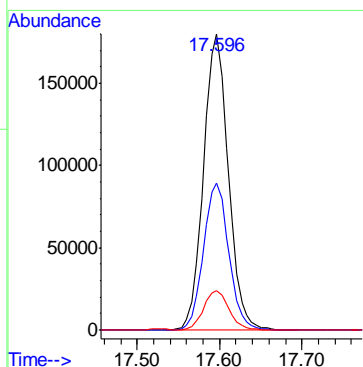
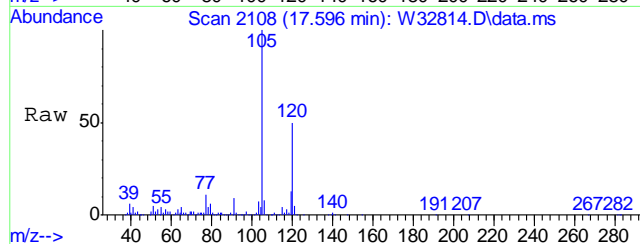
#92
1,3,5-TRIMETHYLBENZENE
Concen: 2.91 PPBV
RT: 17.133 min Scan# 2032
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

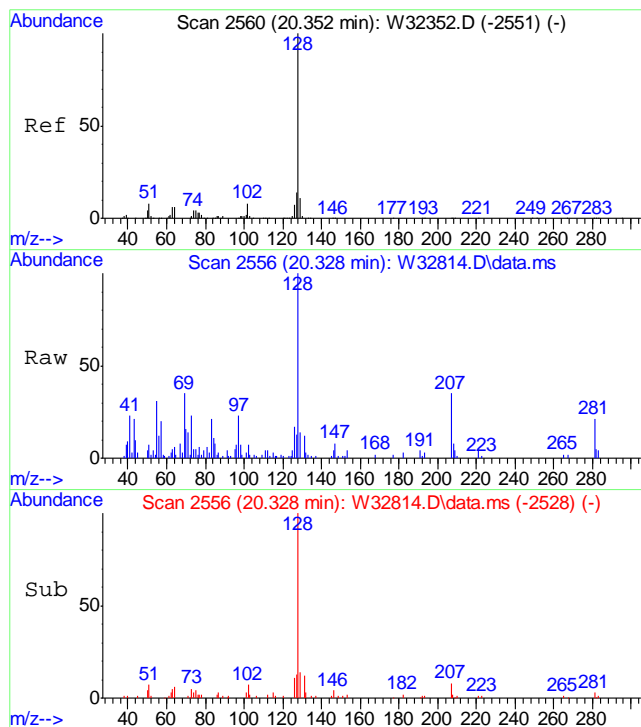
Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.0	32.9	72.9
91	9.7	0.0	29.3



#95
1,2,4-TRIMETHYLBENZENE
Concen: 8.49 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

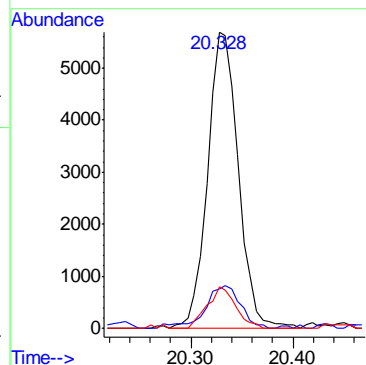
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.8	39.3	79.3
119	13.7	101.1	141.1#





#107
NAPHTHALENE
Concen: 1.21 PPBV
RT: 20.328 min Scan# 2556
Delta R.T. -0.024 min
Lab File: W32814.D
Acq: 20 Jul 2011 6:53 pm

Tgt Ion:	128	Resp:	11917
Ion	Ratio	Lower	Upper
128	100		
127	16.6	0.0	34.3
129	13.0	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
 Data File : W32835.D
 Acq On : 21 Jul 2011 2:15 pm
 Operator : YOUMINH
 Sample : JA81330-7
 Misc : MS15514,VW1342,100,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 00:26:41 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	169517	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.274	114	845559	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	402138	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	401206	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.164	95	194800	4.48	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	89.60%

Target Compounds

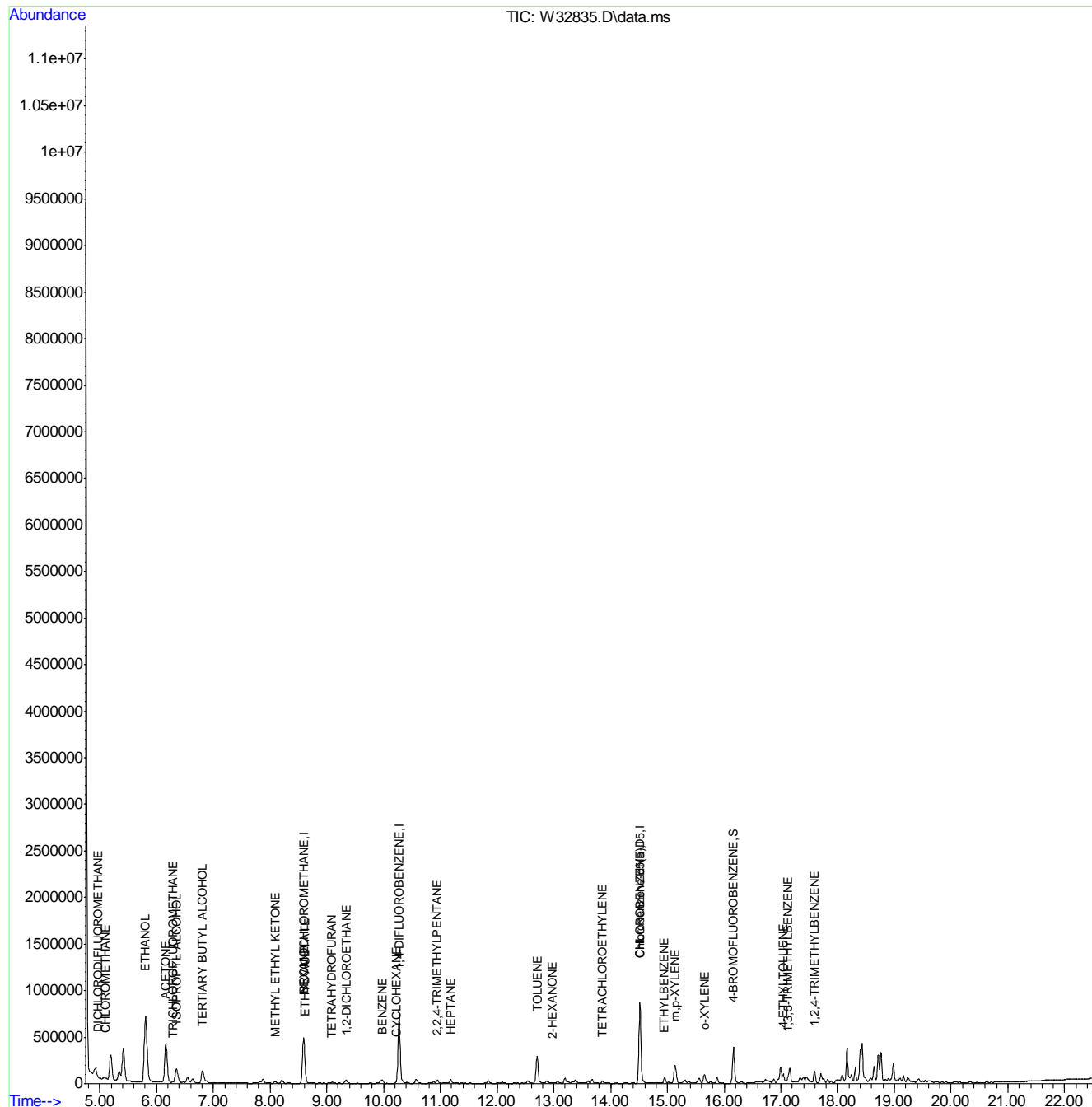
						Qvalue
5) DICHLORODIFLUOROMETHANE	4.965	85	7173	0.14	PPBV	97
8) CHLOROMETHANE	5.099	52	2020	0.31	PPBV	98
18) TRICHLOROFLUOROMETHANE	6.287	101	5251	0.11	PPBV	98
19) ISOPROPYL ALCOHOL	6.348	45	339310	8.21	PPBV	98
20) ACETONE	6.159	58	263867	24.33	PPBV	91
27) ETHANOL	5.806	45	1474952	135.96	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.812	59	236846	4.95	PPBV	92
36) TETRAHYDROFURAN	9.086	72	2910	0.29	PPBV #	47
37) HEXANE	8.598	57	31469	0.85	PPBV	87
40) METHYL ETHYL KETONE	8.092	72	9364	0.92	PPBV	92
43) ETHYL ACETATE	8.616	61	10302	1.57	PPBV #	1
49) 1,2-DICHLOROETHANE	9.342	62	5310	0.23	PPBV	98
51) BENZENE	9.976	78	41927	0.65	PPBV	97
52) CYCLOHEXANE	10.220	84	8045	0.25	PPBV #	78
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	39471	0.36	PPBV	88
62) HEPTANE	11.183	43	23388	0.56	PPBV	92
66) TOLUENE	12.707	92	169600	3.92	PPBV	99
71) 2-HEXANONE	12.981	43	4919	0.12	PPBV	88
72) TETRACHLOROETHYLENE	13.859	164	5405	0.20	PPBV	97
78) ETHYLBENZENE	14.950	91	67312	0.84	PPBV	98
79) m,p-XYLENE	15.133	106	91970	2.97	PPBV	96
80) o-XYLENE	15.658	106	36686	1.23	PPBV	98
91) 4-ETHYLTOLUENE	17.041	105	68139	0.97	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	33671	0.58	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.590	105	85818	1.62	PPBV #	31

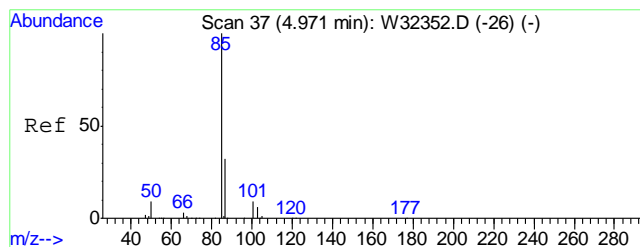
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
Data File : W32835.D
Acq On : 21 Jul 2011 2:15 pm
Operator : YOU MINH
Sample : JA81330-7
Misc : MS15514,VW1342,100,,,1
ALS Vial : 8 Sample Multiplier: 1

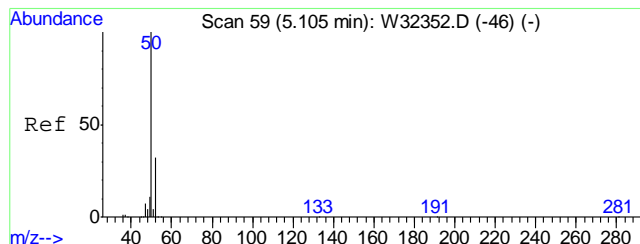
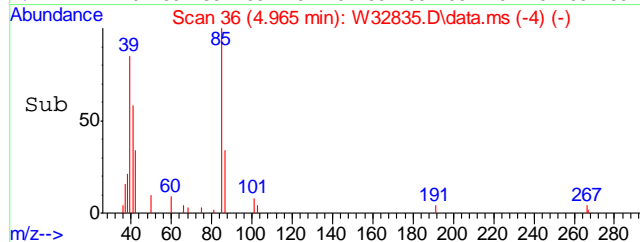
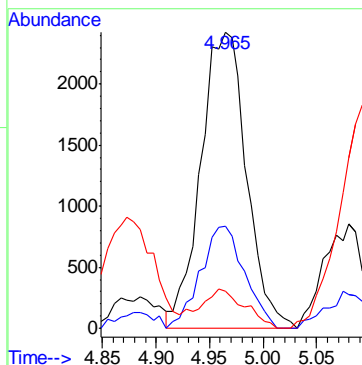
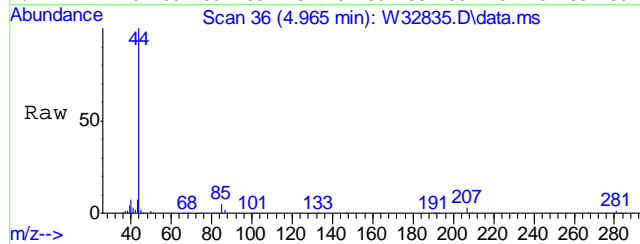
Quant Time: Aug 17 00:26:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





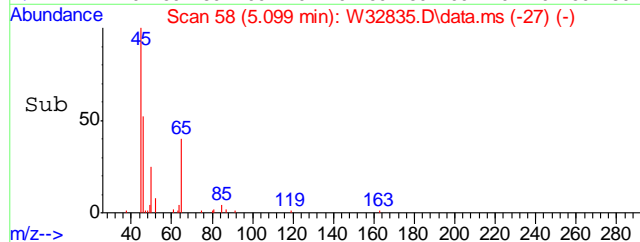
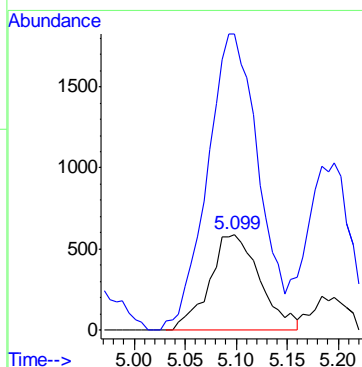
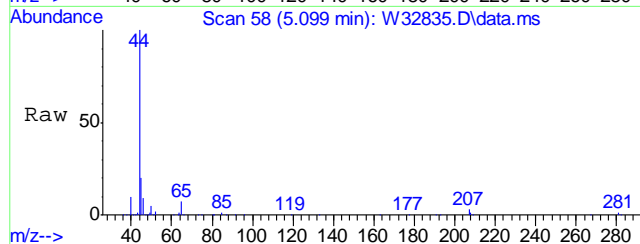
#5
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 4.965 min Scan# 36
Delta R.T. -0.006 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

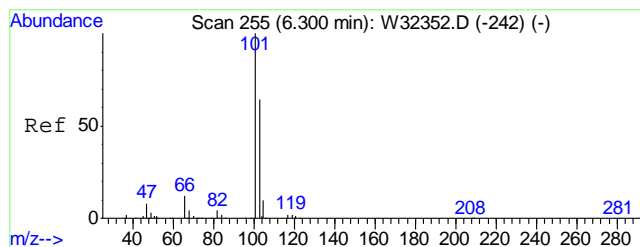
Tgt Ion:	85	Resp:	7173
Ion Ratio	Lower	Upper	
85	100		
87	33.1	12.0	52.0
50	13.1	0.0	30.7



#8
CHLOROMETHANE
Concen: 0.31 PPBV
RT: 5.099 min Scan# 58
Delta R.T. -0.006 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

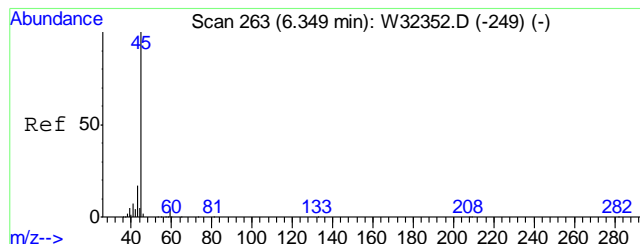
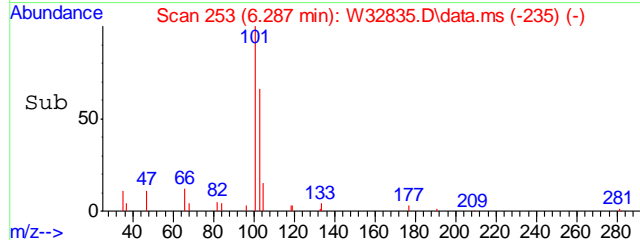
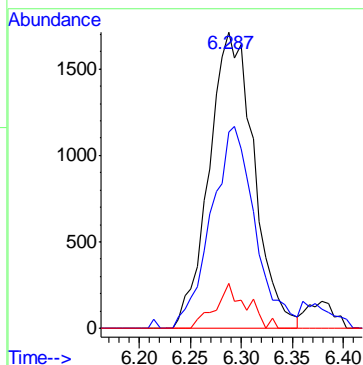
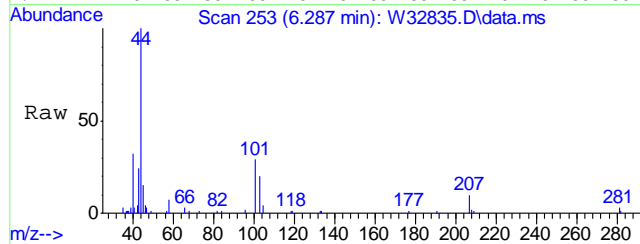
Tgt Ion:	52	Resp:	2020
Ion Ratio	Lower	Upper	
52	100		
50	292.6	268.6	308.6





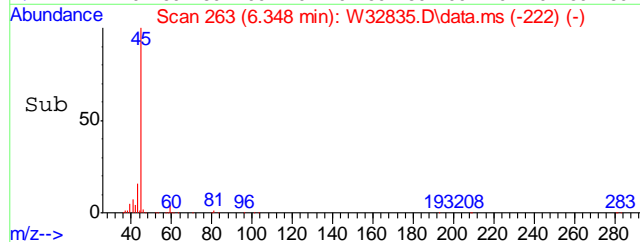
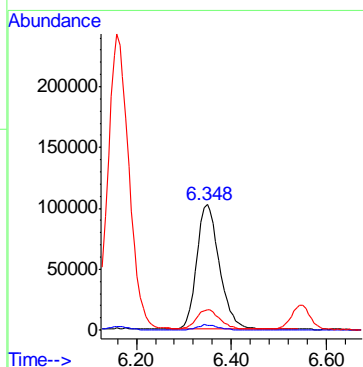
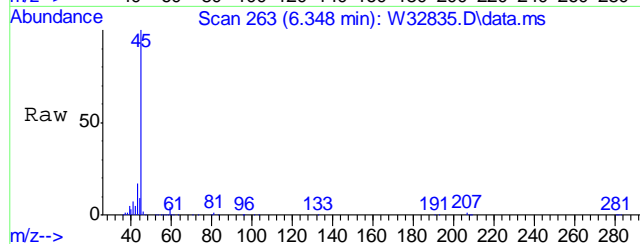
#18
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 6.287 min Scan# 253
Delta R.T. -0.012 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

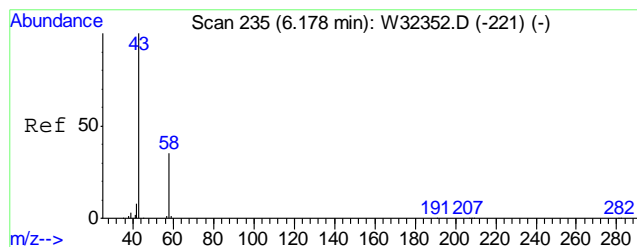
Tgt Ion:	101	Resp:	5251
Ion Ratio	Lower	Upper	
101	100		
103	66.5	44.9	84.9
105	10.6	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 8.21 PPBV
RT: 6.348 min Scan# 263
Delta R.T. -0.000 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

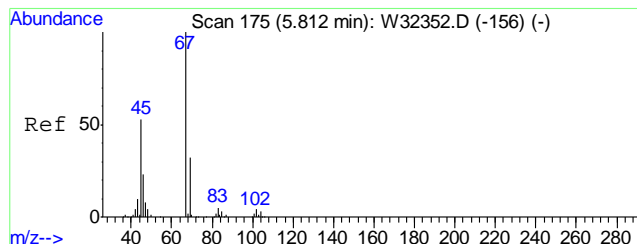
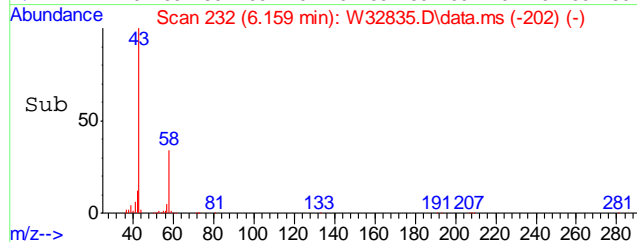
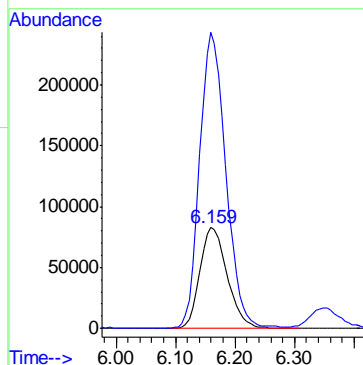
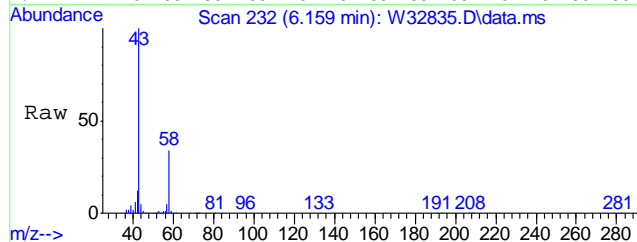
Tgt Ion:	45	Resp:	339310
Ion Ratio	Lower	Upper	
45	100		
59	3.9	0.0	24.3
43	16.5	0.0	37.5





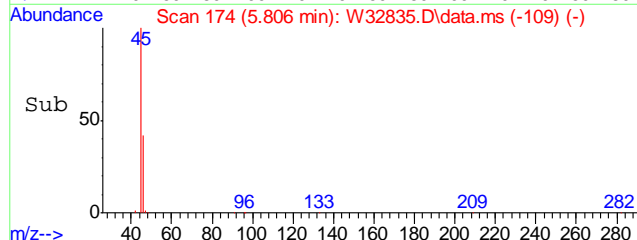
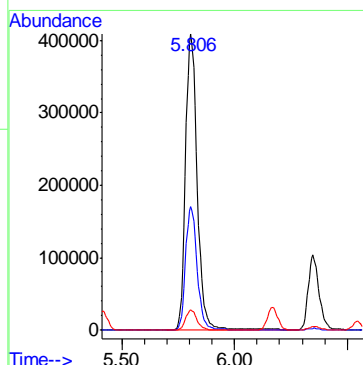
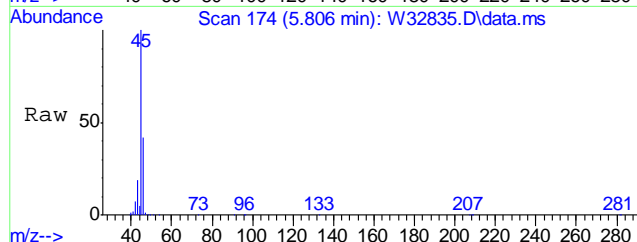
#20
 ACETONE
 Concen: 24.33 PPBV
 RT: 6.159 min Scan# 232
 Delta R.T. -0.018 min
 Lab File: W32835.D
 Acq: 21 Jul 2011 2:15 pm

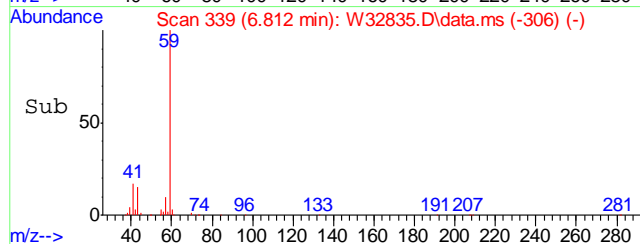
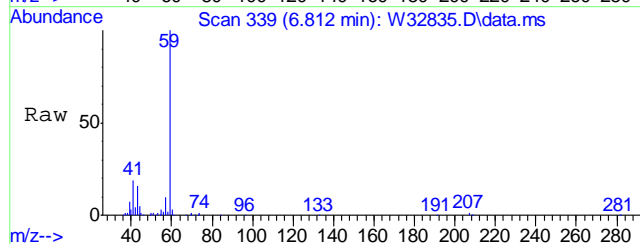
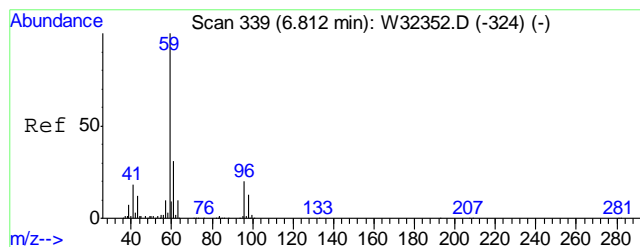
Tgt Ion: 58 Resp: 263867
 Ion Ratio Lower Upper
 58 100
 43 280.1 277.6 317.6



#27
 ETHANOL
 Concen: 135.96 PPBV
 RT: 5.806 min Scan# 174
 Delta R.T. -0.006 min
 Lab File: W32835.D
 Acq: 21 Jul 2011 2:15 pm

Tgt Ion: 45 Resp: 1474952
 Ion Ratio Lower Upper
 45 100
 46 41.3 20.6 60.6
 42 6.8 0.0 28.7





#34

TERTIARY BUTYL ALCOHOL

Concen: 4.95 PPBV

RT: 6.812 min Scan# 339

Delta R.T. -0.000 min

Lab File: W32835.D

Acq: 21 Jul 2011 2:15 pm

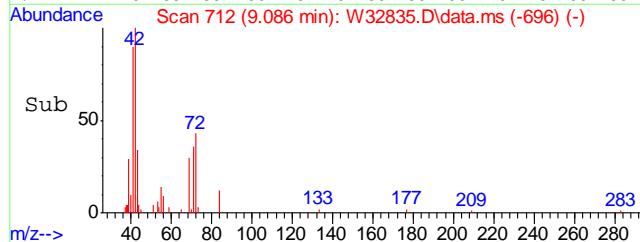
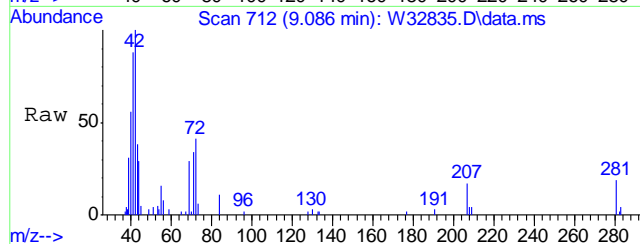
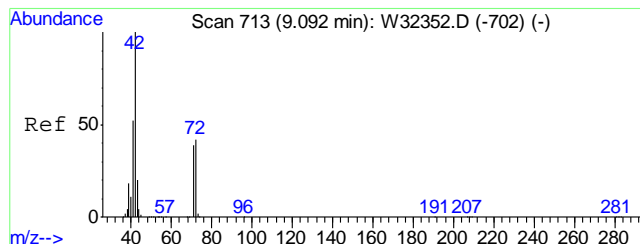
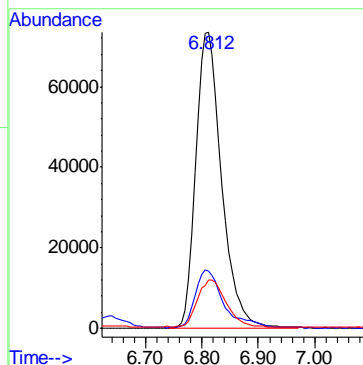
Tgt Ion: 59 Resp: 236846

Ion Ratio Lower Upper

59 100

41 21.4 0.0 39.2

43 17.3 0.0 32.1



#36

TETRAHYDROFURAN

Concen: 0.29 PPBV

RT: 9.086 min Scan# 712

Delta R.T. -0.006 min

Lab File: W32835.D

Acq: 21 Jul 2011 2:15 pm

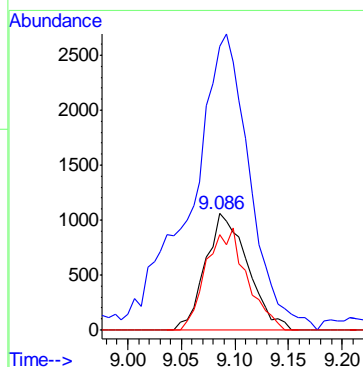
Tgt Ion: 72 Resp: 2910

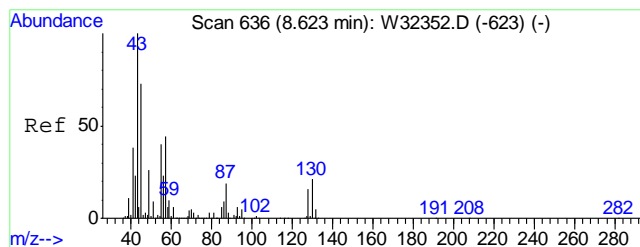
Ion Ratio Lower Upper

72 100

42 357.0 220.0 260.0#

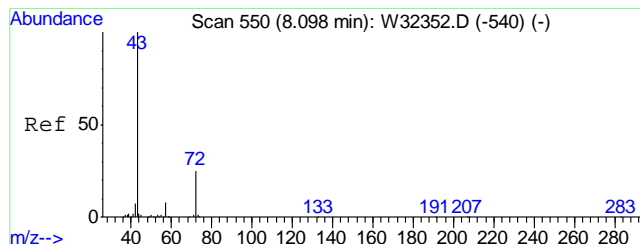
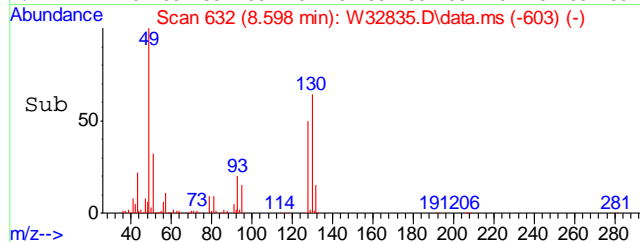
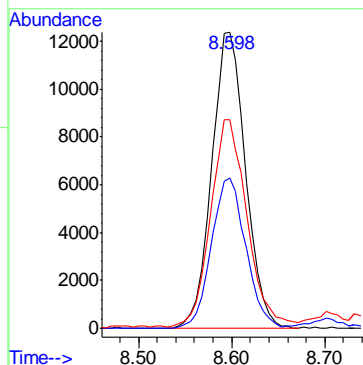
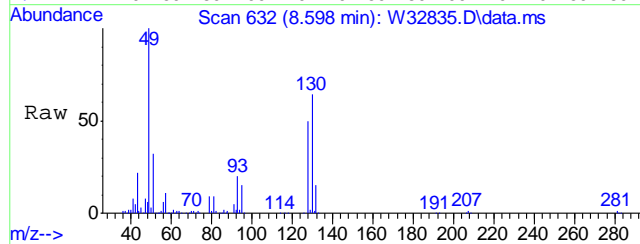
71 83.4 74.2 114.2





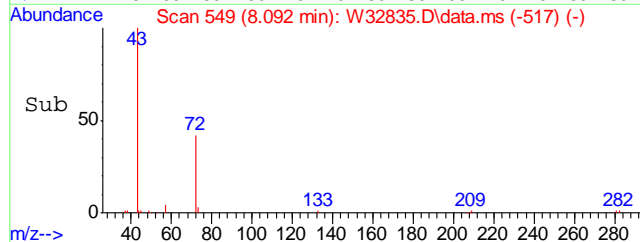
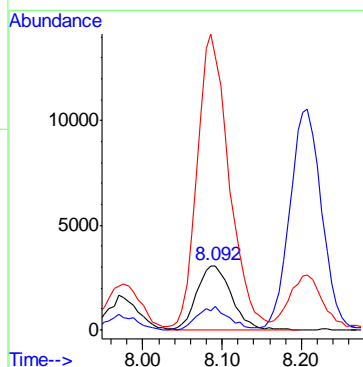
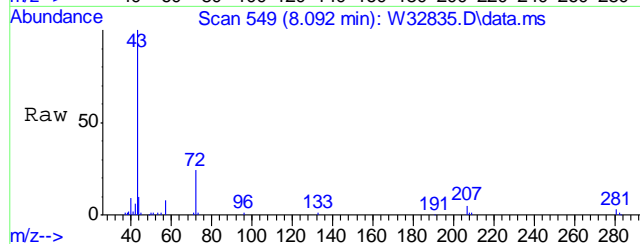
#37
 HEXANE
 Concen: 0.85 PPBV
 RT: 8.598 min Scan# 632
 Delta R.T. -0.025 min
 Lab File: W32835.D
 Acq: 21 Jul 2011 2:15 pm

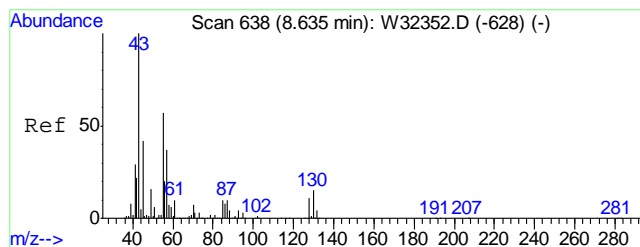
Tgt Ion: 57 Resp: 31469
 Ion Ratio Lower Upper
 57 100
 56 52.0 33.7 73.7
 41 75.5 74.5 114.5



#40
 METHYL ETHYL KETONE
 Concen: 0.92 PPBV
 RT: 8.092 min Scan# 549
 Delta R.T. -0.006 min
 Lab File: W32835.D
 Acq: 21 Jul 2011 2:15 pm

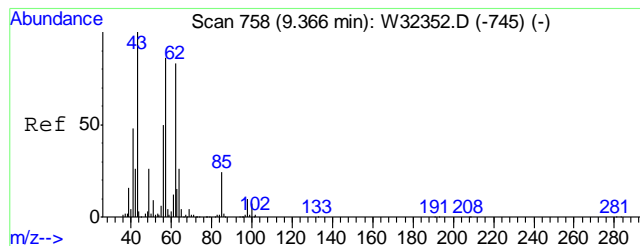
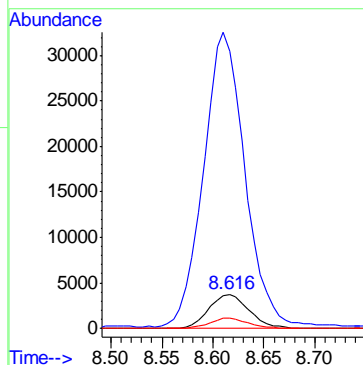
Tgt Ion: 72 Resp: 9364
 Ion Ratio Lower Upper
 72 100
 57 36.0 11.1 51.1
 43 424.4 386.1 426.1





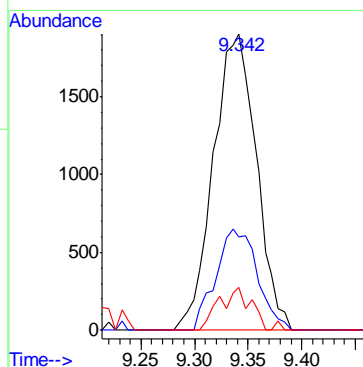
#43
ETHYL ACETATE
Concen: 1.57 PPBV
RT: 8.616 min Scan# 635
Delta R.T. -0.018 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

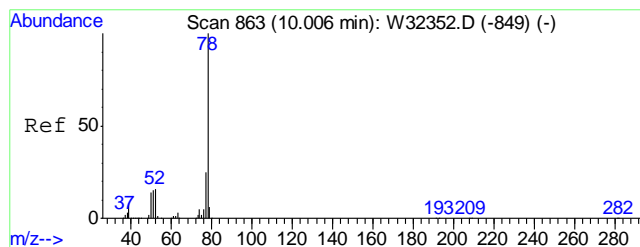
Tgt Ion	Ratio	Lower	Upper
61	100		
43	894.8	1488.2	1528.2#
88	27.4	27.8	67.8#



#49
1,2-DICHLOROETHANE
Concen: 0.23 PPBV
RT: 9.342 min Scan# 754
Delta R.T. -0.025 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

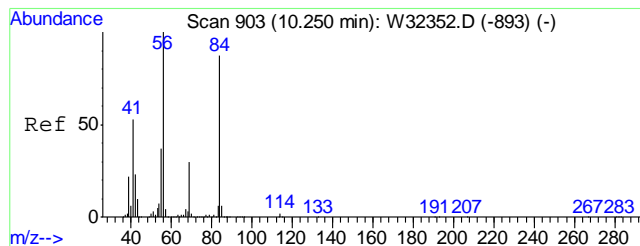
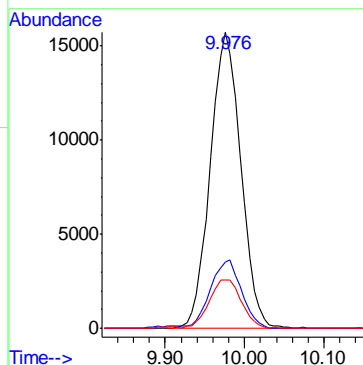
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.9	12.3	52.3
98	10.6	0.0	32.0





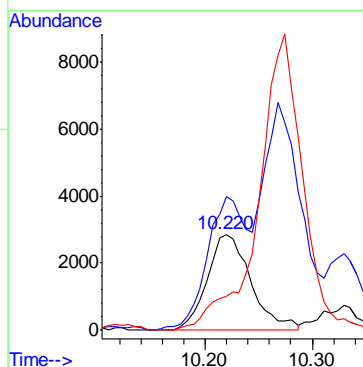
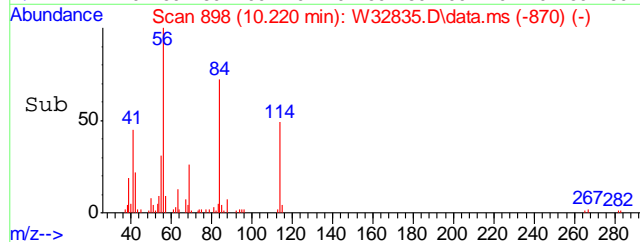
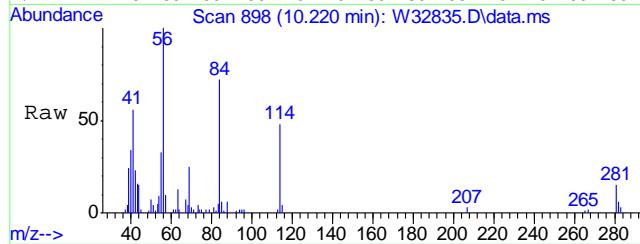
#51
BENZENE
Concen: 0.65 PPBV
RT: 9.976 min Scan# 858
Delta R.T. -0.031 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

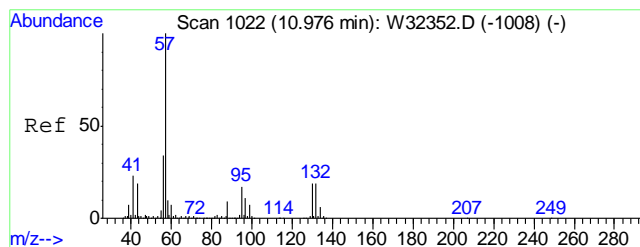
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	4.7	44.7
52	17.3	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.25 PPBV
RT: 10.220 min Scan# 898
Delta R.T. -0.031 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

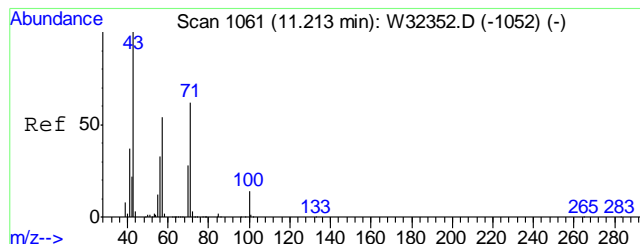
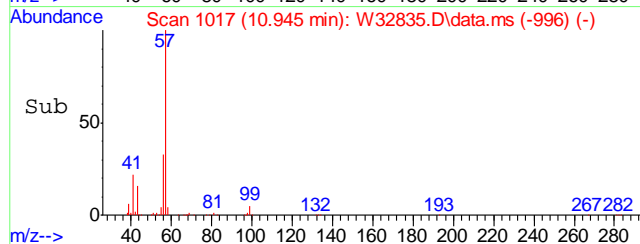
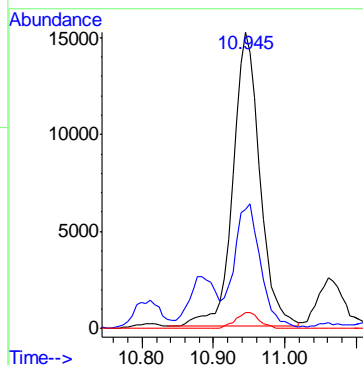
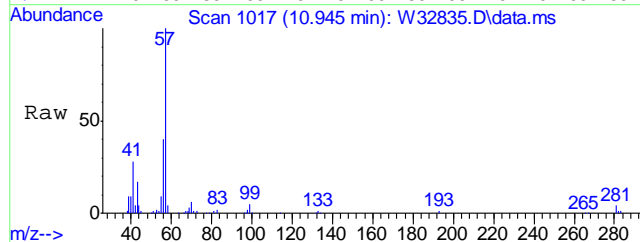
Tgt Ion	Ratio	Lower	Upper
84	100		
56	131.1	102.7	142.7
69	0.0	20.8	60.8#





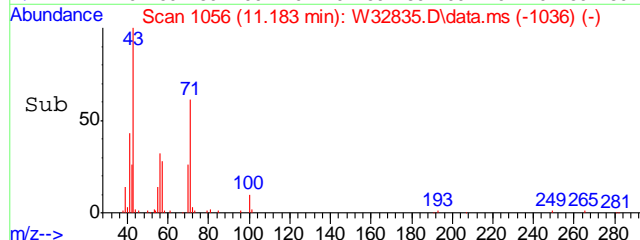
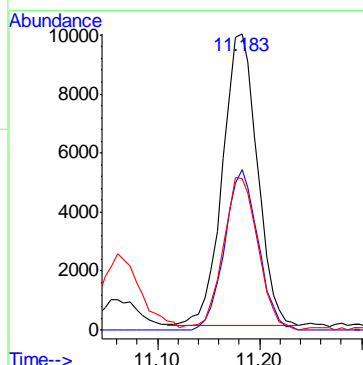
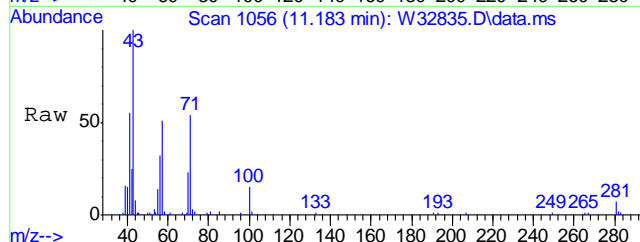
#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.36 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.031 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

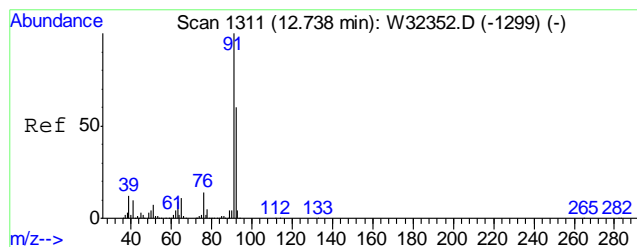
Tgt Ion	Ratio	Lower	Upper
57	100		
56	40.9	13.5	53.5
99	4.7	0.0	27.7



#62
HEPTANE
Concen: 0.56 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
71	52.4	41.6	81.6
57	52.1	34.6	74.6





#66

TOLUENE

Concen: 3.92 PPBV

RT: 12.707 min Scan# 1306

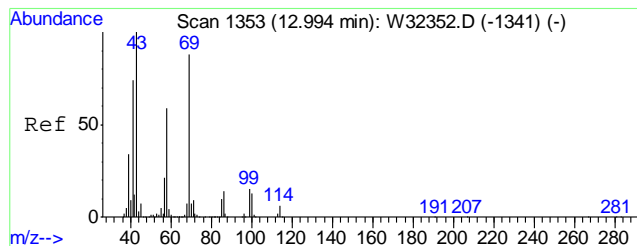
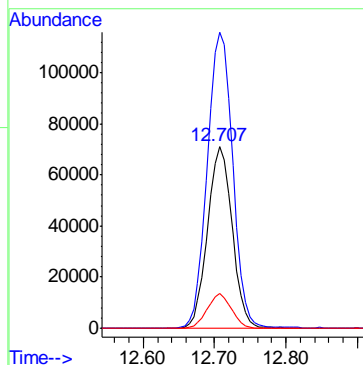
Delta R.T. -0.031 min

Lab File: W32835.D

Acq: 21 Jul 2011 2:15 pm

Tgt Ion: 92 Resp: 169600

Ion	Ratio	Lower	Upper
92	100		
91	167.8	146.2	186.2
65	18.6	0.4	40.4



#71

2-HEXANONE

Concen: 0.12 PPBV

RT: 12.981 min Scan# 1351

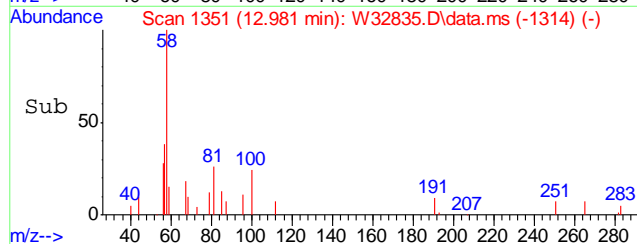
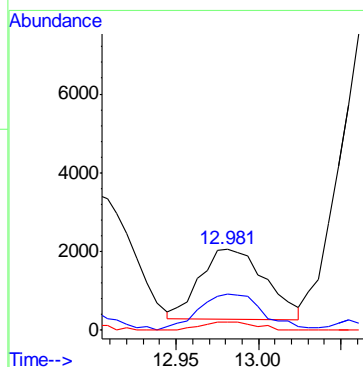
Delta R.T. -0.012 min

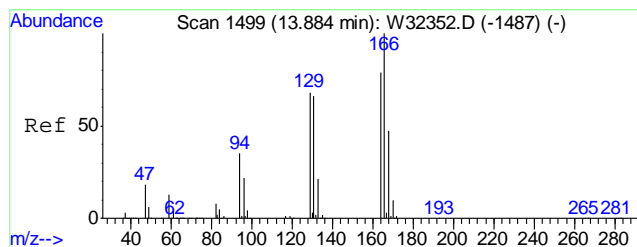
Lab File: W32835.D

Acq: 21 Jul 2011 2:15 pm

Tgt Ion: 43 Resp: 4919

Ion	Ratio	Lower	Upper
43	100		
58	50.4	39.4	79.4
100	9.6	0.0	33.6





#72

TETRACHLOROETHYLENE

Concen: 0.20 PPBV

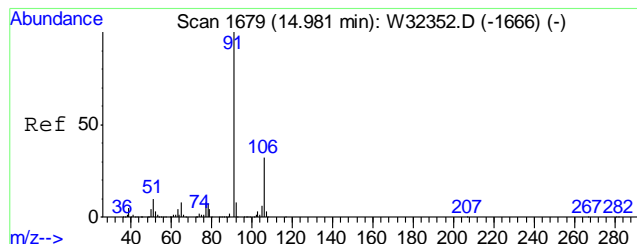
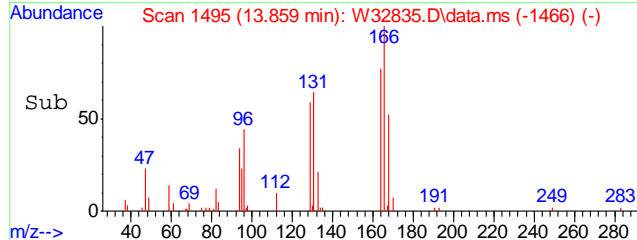
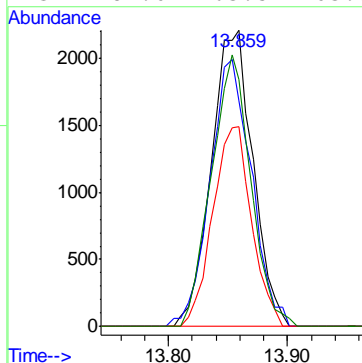
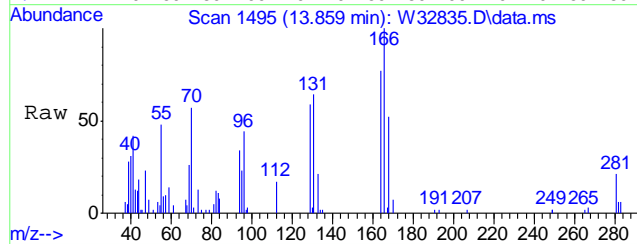
RT: 13.859 min Scan# 1495

Delta R.T. -0.025 min

Lab File: W32835.D

Acq: 21 Jul 2011 2:15 pm

Tgt Ion:	164	Resp:	5405
Ion Ratio	Lower	Upper	
164	100		
129	89.5	66.3	106.3
168	62.8	41.0	81.0
131	87.0	63.5	103.5



#78

ETHYLBENZENE

Concen: 0.84 PPBV

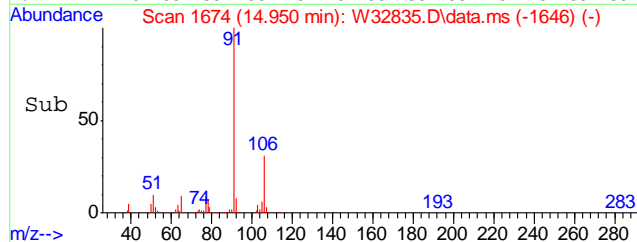
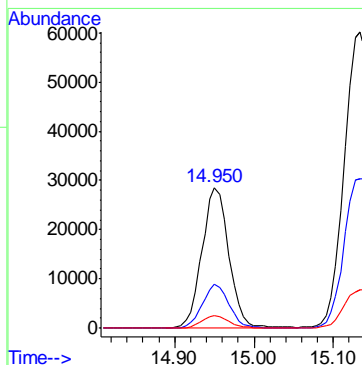
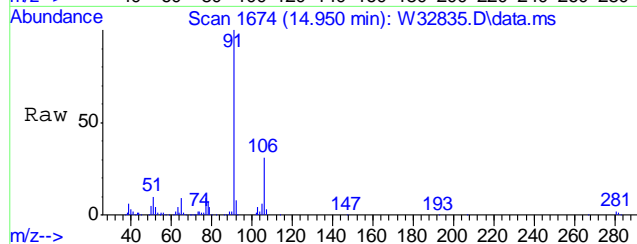
RT: 14.950 min Scan# 1674

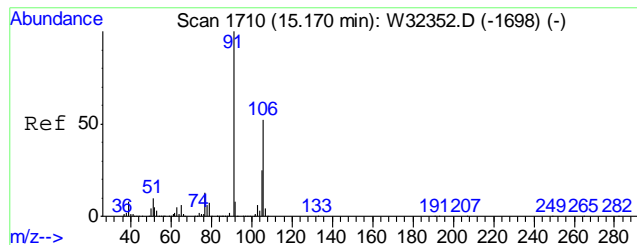
Delta R.T. -0.031 min

Lab File: W32835.D

Acq: 21 Jul 2011 2:15 pm

Tgt Ion:	91	Resp:	67312
Ion Ratio	Lower	Upper	
91	100		
106	30.8	11.7	51.7
77	9.1	0.0	28.1





#79

m,p-XYLENE

Concen: 2.97 PPBV

RT: 15.133 min Scan# 1704

Delta R.T. -0.037 min

Lab File: W32835.D

Acq: 21 Jul 2011 2:15 pm

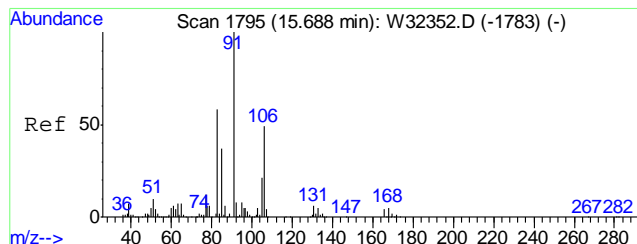
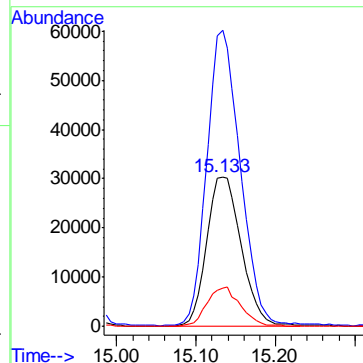
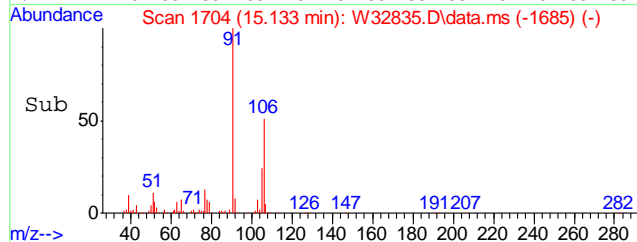
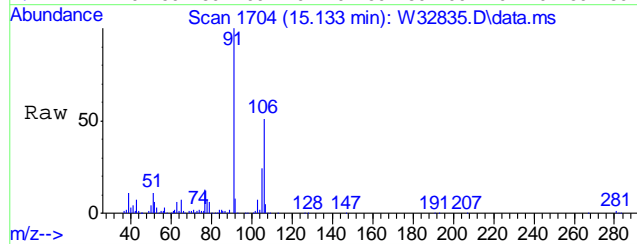
Tgt Ion:106 Resp: 91970

Ion Ratio Lower Upper

106 100

91 197.7 152.6 228.8

77 25.7 19.9 29.9



#80

o-XYLENE

Concen: 1.23 PPBV

RT: 15.658 min Scan# 1790

Delta R.T. -0.031 min

Lab File: W32835.D

Acq: 21 Jul 2011 2:15 pm

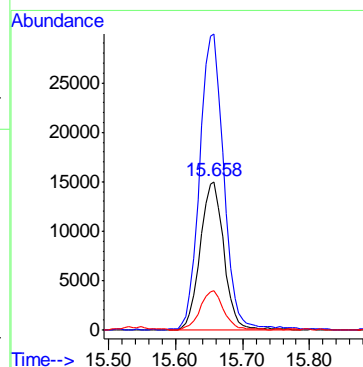
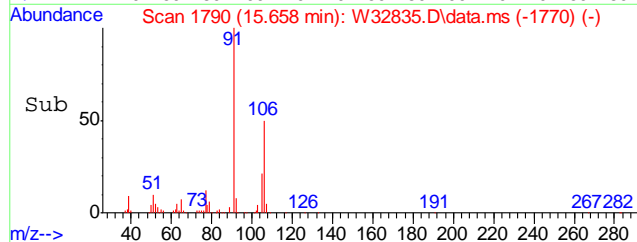
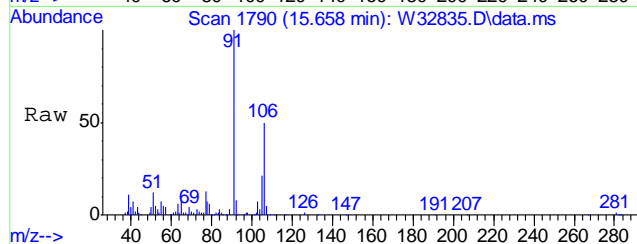
Tgt Ion:106 Resp: 36686

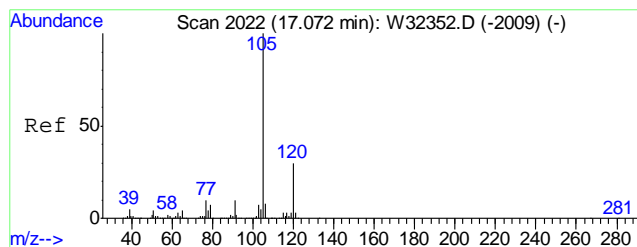
Ion Ratio Lower Upper

106 100

91 204.1 182.1 222.1

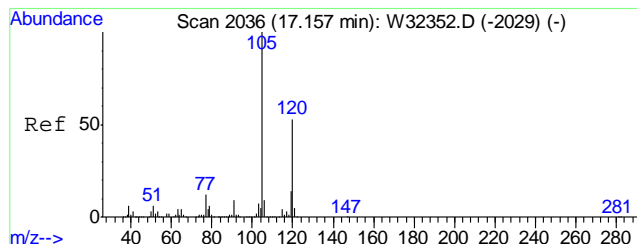
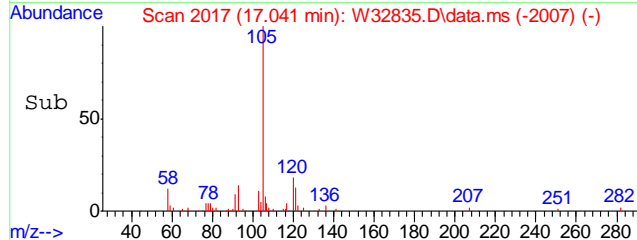
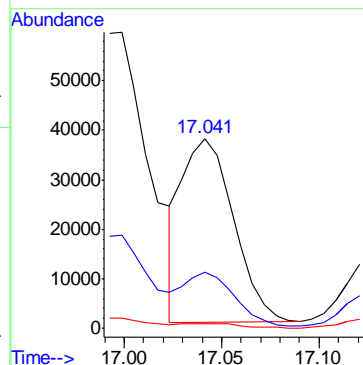
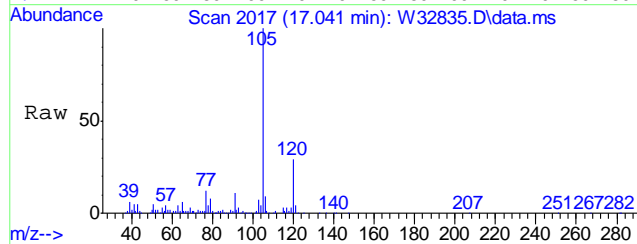
77 25.5 4.0 44.0





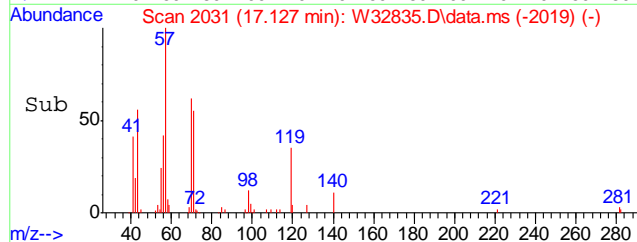
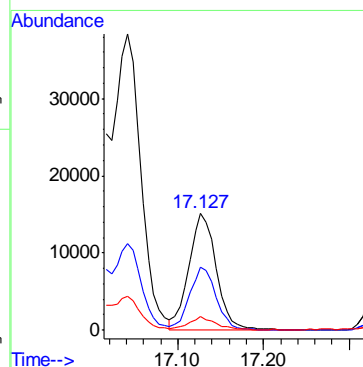
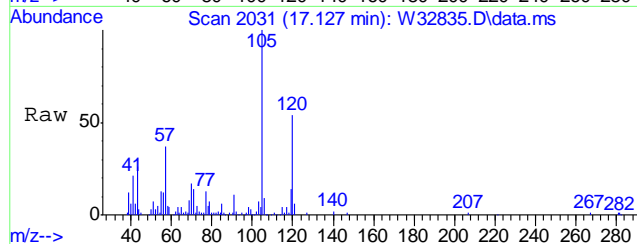
#91
4-ETHYLTOLUENE
Concen: 0.97 PPBV
RT: 17.041 min Scan# 2017
Delta R.T. -0.031 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

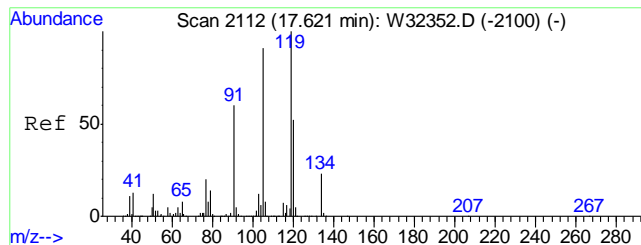
Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.5	9.8	49.8
119	2.7	0.0	22.9



#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.58 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.031 min
Lab File: W32835.D
Acq: 21 Jul 2011 2:15 pm

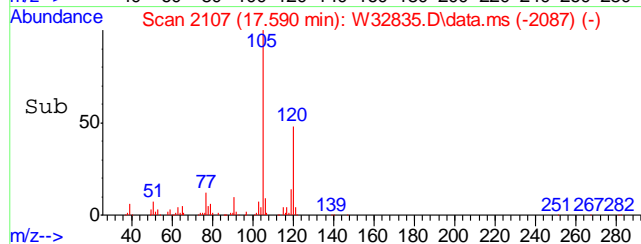
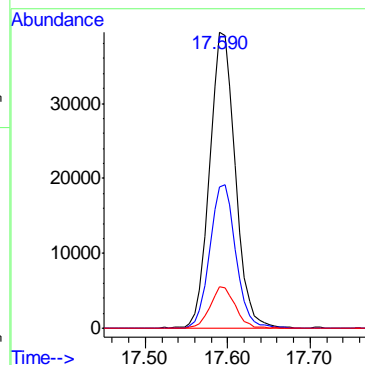
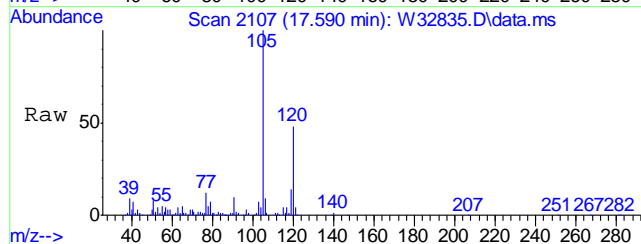
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.2	32.9	72.9
91	10.3	0.0	29.3





#95
 1,2,4-TRIMETHYLBENZENE
 Concen: 1.62 PPBV
 RT: 17.590 min Scan# 2107
 Delta R.T. -0.031 min
 Lab File: W32835.D
 Acq: 21 Jul 2011 2:15 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.0	39.3	79.3
119	13.8	101.1	141.1#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32815.D
Acq On : 20 Jul 2011 7:34 pm
Operator : YOUMINH
Sample : JA81330-8
Misc : MS15514,VW1341,400,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 17 00:25:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration

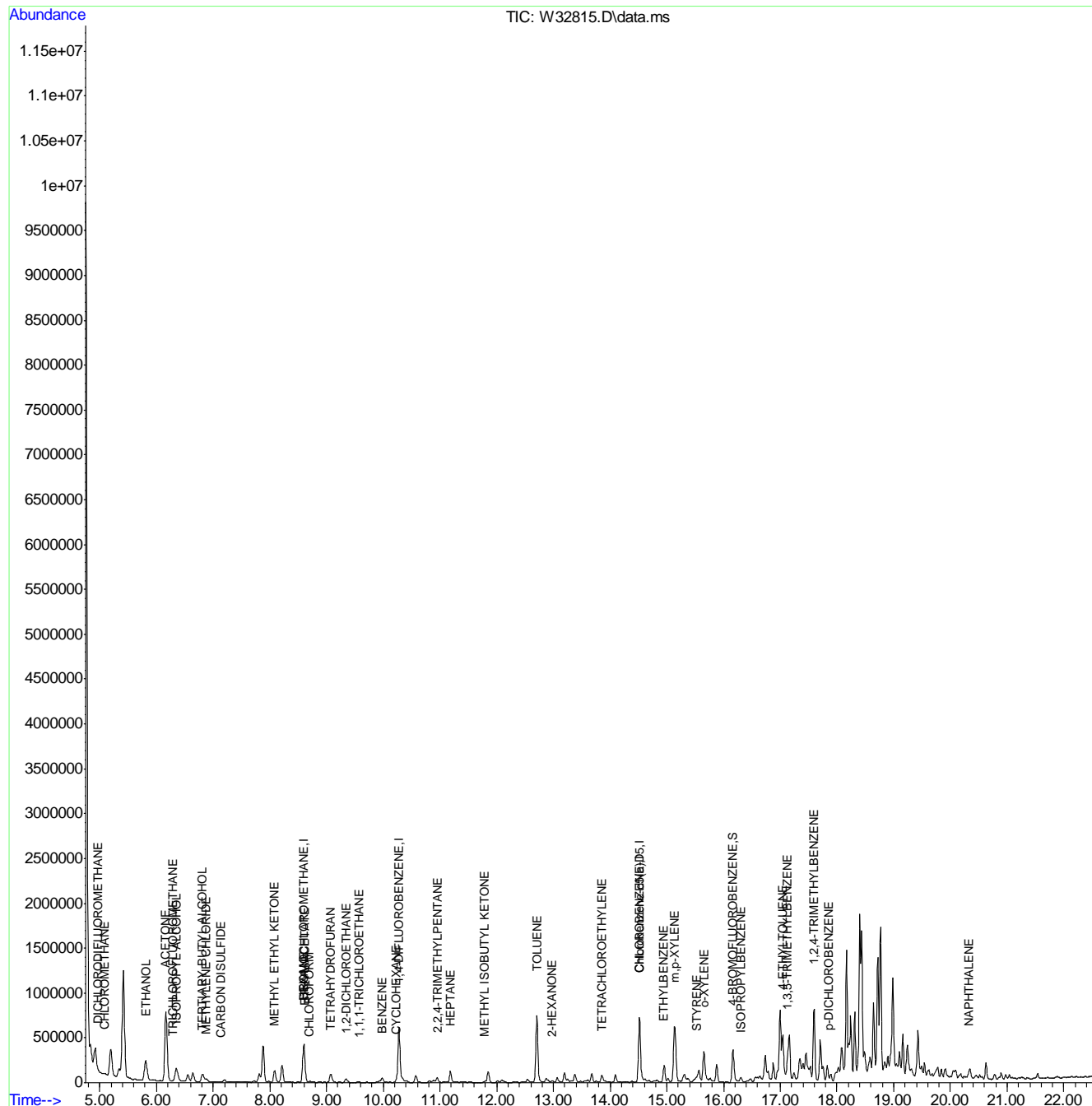
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.598	128	150463	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	754436	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	328081	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	325678	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	177149	5.00	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	100.00%
Target Compounds						
					Qvalue	
5) DICHLORODIFLUOROMETHANE	4.965	85	20130	0.46	PPBV	98
8) CHLOROMETHANE	5.093	52	3588	0.63	PPBV	90
18) TRICHLOROFLUOROMETHANE	6.294	101	15383	0.36	PPBV	99
19) ISOPROPYL ALCOHOL	6.349	45	314780	8.58	PPBV	99
20) ACETONE	6.166	58	470996	48.93	PPBV #	89
26) CARBON DISULFIDE	7.135	76	7350	0.16	PPBV	91
27) ETHANOL	5.812	45	440093	45.71	PPBV	98
30) METHYLENE CHLORIDE	6.873	84	13315	0.73	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.806	59	148804	3.50	PPBV #	87
36) TETRAHYDROFURAN	9.068	72	39748	4.52	PPBV #	88
37) HEXANE	8.604	57	52090	1.59	PPBV #	81
40) METHYL ETHYL KETONE	8.080	72	65831	7.30	PPBV #	74
43) ETHYL ACETATE	8.610	61	12710	2.18	PPBV #	1
45) CHLOROFORM	8.702	83	7917	0.23	PPBV	97
47) 1,1,1-TRICHLOROETHANE	9.567	97	5801	0.17	PPBV	96
49) 1,2-DICHLOROETHANE	9.342	62	3731	0.18	PPBV	99
51) BENZENE	9.982	78	60936	1.06	PPBV	98
52) CYCLOHEXANE	10.232	84	14789	0.51	PPBV #	74
59) 2,2,4-TRIMETHYLPENTANE	10.951	57	49274	0.50	PPBV	83
62) HEPTANE	11.183	43	66776	1.80	PPBV	95
64) METHYL ISOBUTYL KETONE	11.793	43	7524	0.19	PPBV	97
66) TOLUENE	12.707	92	470002	12.17	PPBV	99
71) 2-HEXANONE	12.981	43	8221	0.25	PPBV	92
72) TETRACHLOROETHYLENE	13.859	164	25600	1.17	PPBV	96
78) ETHYLBENZENE	14.951	91	206474	3.17	PPBV	99
79) m,p-XYLENE	15.133	106	337761	13.35	PPBV	95
80) o-XYLENE	15.658	106	141551	5.79	PPBV	96
81) STYRENE	15.536	104	20728	0.60	PPBV	98
87) ISOPROPYLBENZENE	16.310	105	46725	0.68	PPBV	99
91) 4-ETHYLTOLUENE	17.042	105	367946	6.43	PPBV	98
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	190692	4.03	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	587491	13.56	PPBV #	32
98) p-DICHLOROBENZENE	17.846	146	4626	0.18	PPBV	95
107) NAPHTHALENE	20.328	128	32877	3.37	PPBV	90

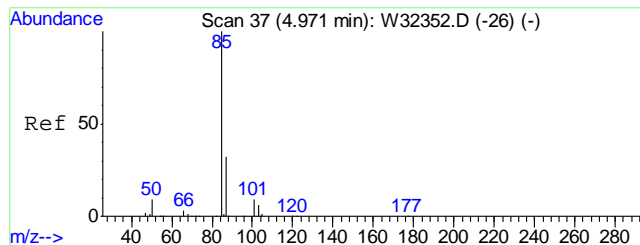
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32815.D
Acq On : 20 Jul 2011 7:34 pm
Operator : YOUMINH
Sample : JA81330-8
Misc : MS15514,VW1341,400,,,1
ALS Vial : 16 Sample Multiplier: 1

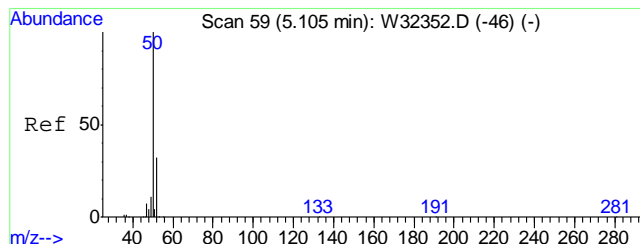
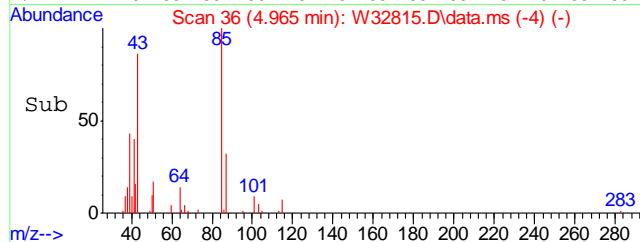
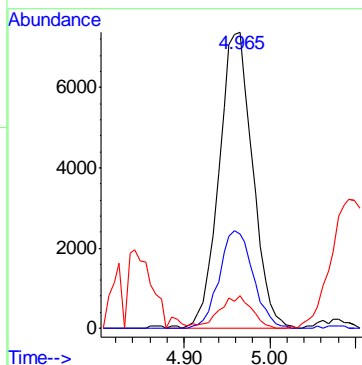
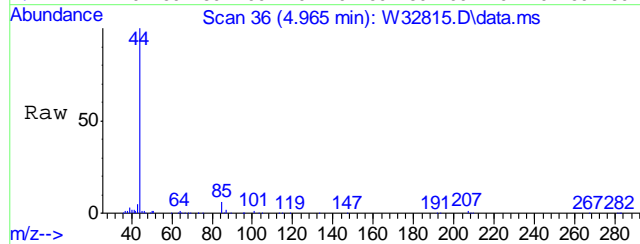
Quant Time: Aug 17 00:25:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





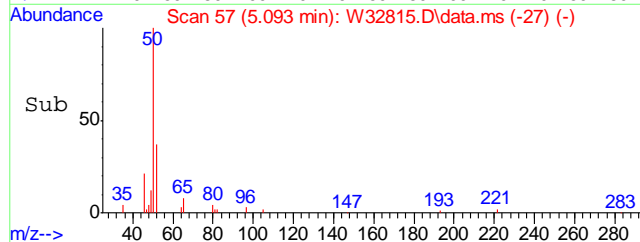
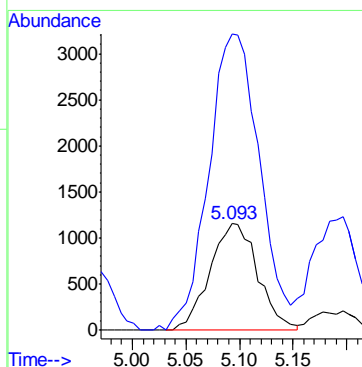
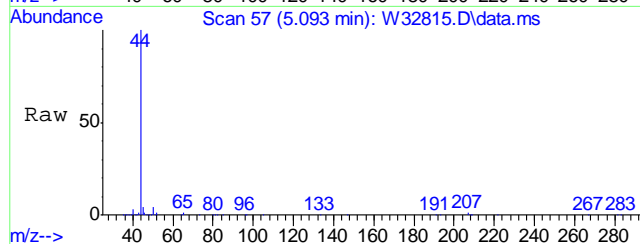
#5
DICHLORODIFLUOROMETHANE
Concen: 0.46 PPBV
RT: 4.965 min Scan# 36
Delta R.T. -0.006 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

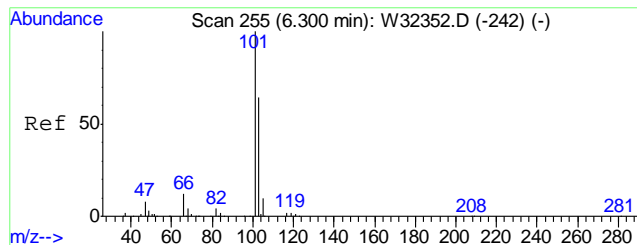
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.2	12.0	52.0
50	10.7	0.0	30.7



#8
CHLOROMETHANE
Concen: 0.63 PPBV
RT: 5.093 min Scan# 57
Delta R.T. -0.012 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

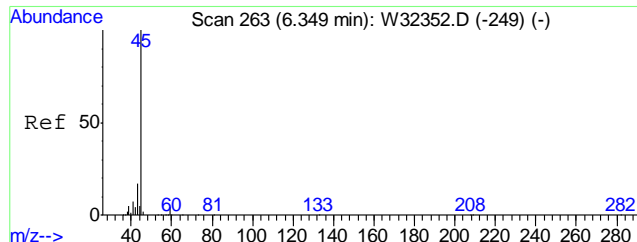
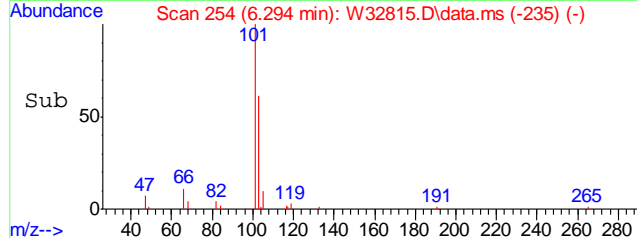
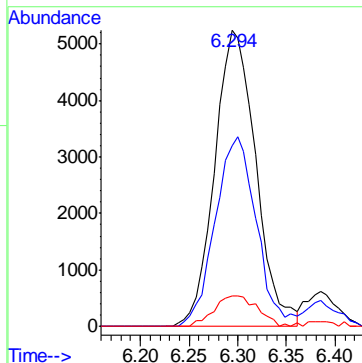
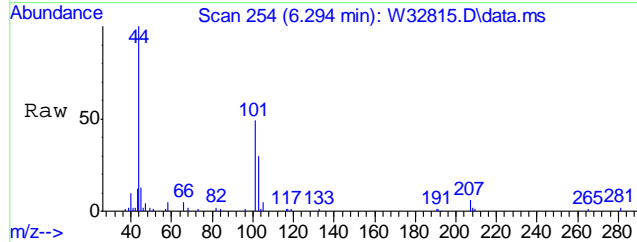
Tgt Ion	Ratio	Lower	Upper
52	100		
50	269.4	268.6	308.6





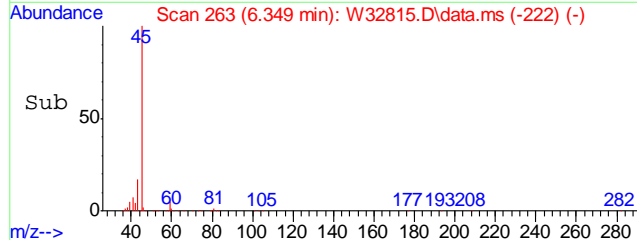
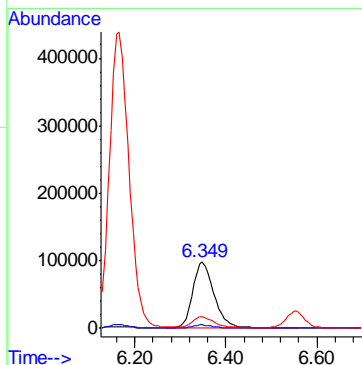
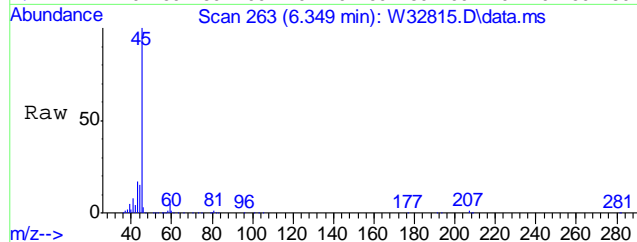
#18
TRICHLOROFLUOROMETHANE
Concen: 0.36 PPBV
RT: 6.294 min Scan# 254
Delta R.T. -0.006 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

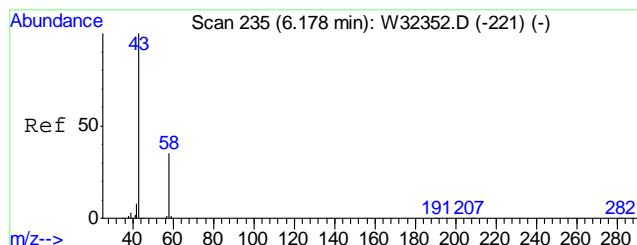
Tgt Ion:	101	Resp:	15383
Ion Ratio	Lower	Upper	
101	100		
103	64.2	44.9	84.9
105	10.9	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 8.58 PPBV
RT: 6.349 min Scan# 263
Delta R.T. -0.000 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

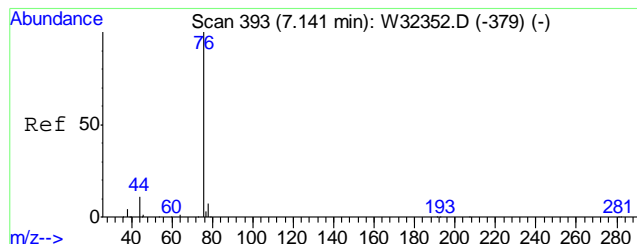
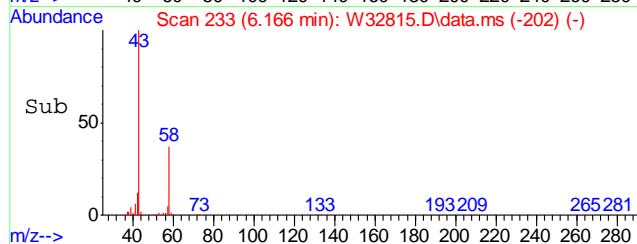
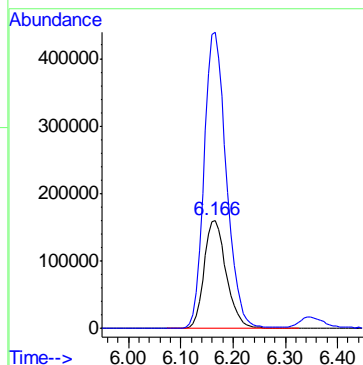
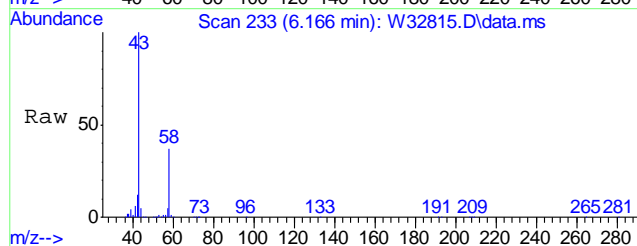
Tgt Ion:	45	Resp:	314780
Ion Ratio	Lower	Upper	
45	100		
59	4.5	0.0	24.3
43	17.2	0.0	37.5





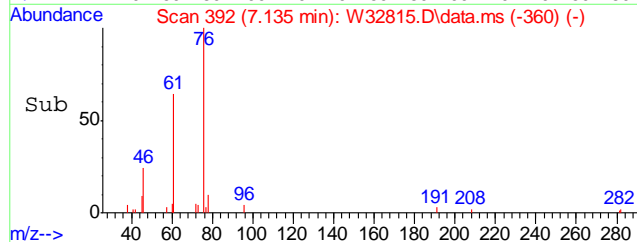
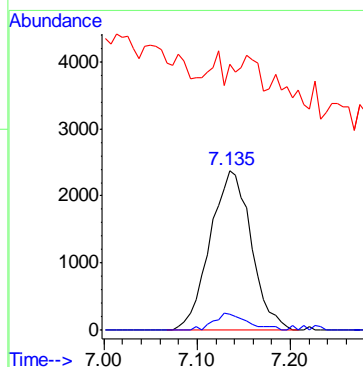
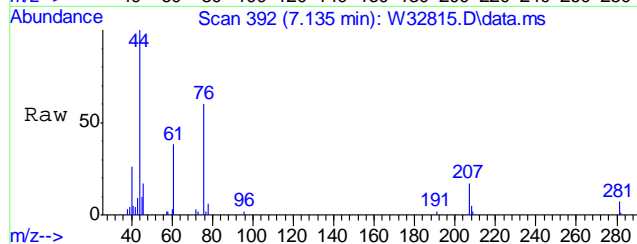
#20
 ACETONE
 Concen: 48.93 PPBV
 RT: 6.166 min Scan# 233
 Delta R.T. -0.012 min
 Lab File: W32815.D
 Acq: 20 Jul 2011 7:34 pm

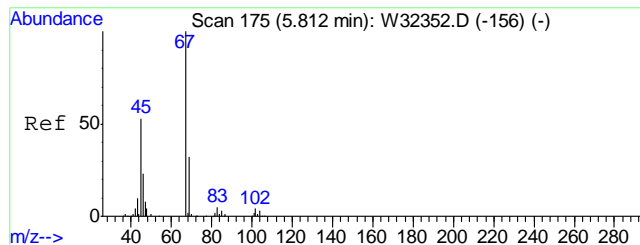
Tgt Ion: 58 Resp: 470996
 Ion Ratio Lower Upper
 58 100
 43 275.6 277.6 317.6#



#26
 CARBON DISULFIDE
 Concen: 0.16 PPBV
 RT: 7.135 min Scan# 392
 Delta R.T. -0.006 min
 Lab File: W32815.D
 Acq: 20 Jul 2011 7:34 pm

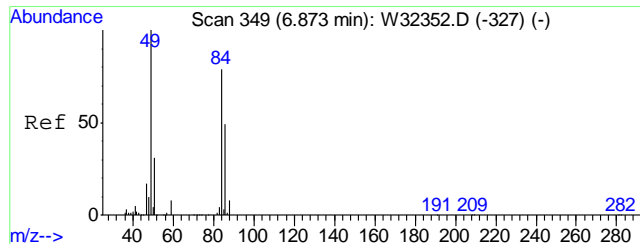
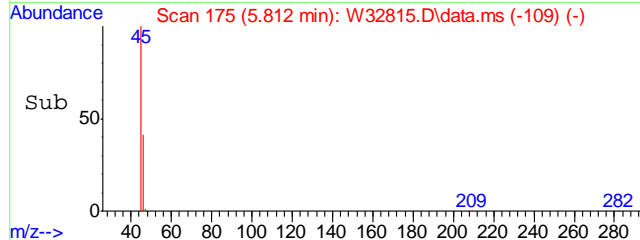
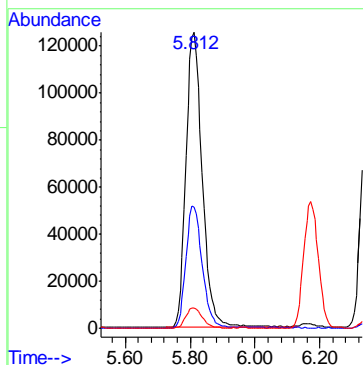
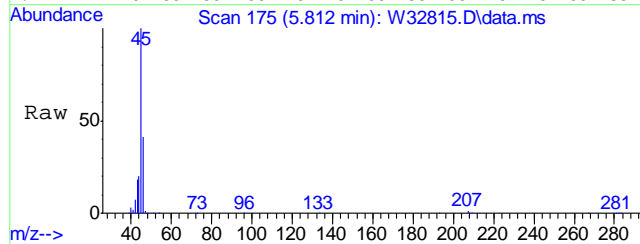
Tgt Ion: 76 Resp: 7350
 Ion Ratio Lower Upper
 76 100
 78 8.5 0.0 28.9
 44 5.2 0.0 31.0





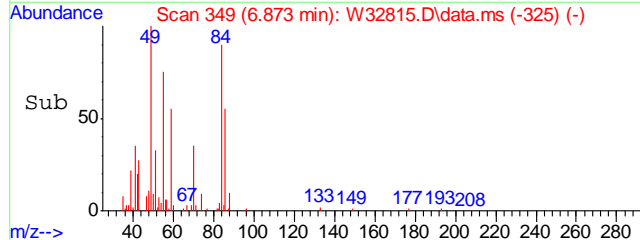
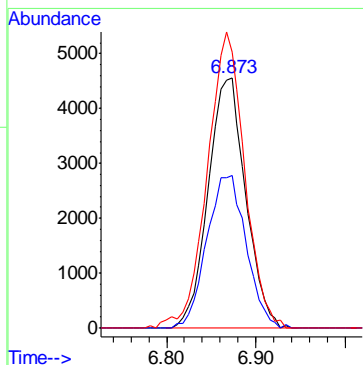
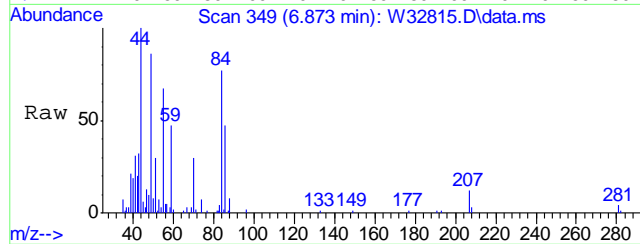
#27
 ETHANOL
 Concen: 45.71 PPBV
 RT: 5.812 min Scan# 175
 Delta R.T. -0.000 min
 Lab File: W32815.D
 Acq: 20 Jul 2011 7:34 pm

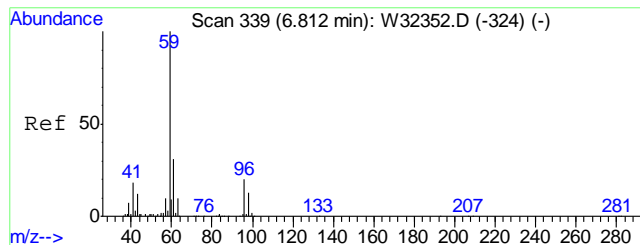
Tgt Ion: 45 Resp: 440093
 Ion Ratio Lower Upper
 45 100
 46 41.3 20.6 60.6
 42 7.2 0.0 28.7



#30
 METHYLENE CHLORIDE
 Concen: 0.73 PPBV
 RT: 6.873 min Scan# 349
 Delta R.T. -0.000 min
 Lab File: W32815.D
 Acq: 20 Jul 2011 7:34 pm

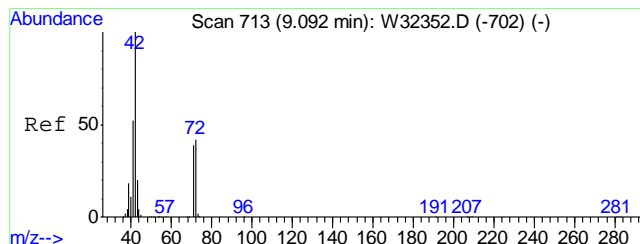
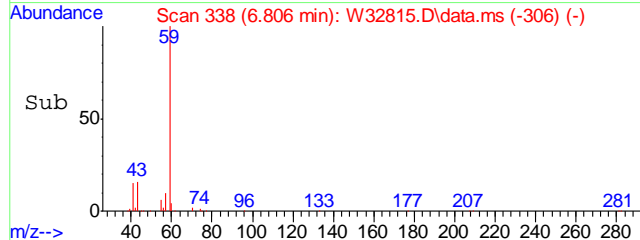
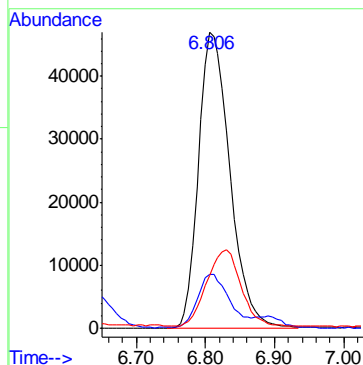
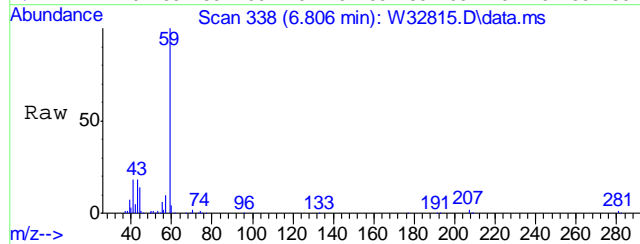
Tgt Ion: 84 Resp: 13315
 Ion Ratio Lower Upper
 84 100
 86 63.7 42.9 82.9
 49 117.5 0.0 324.2





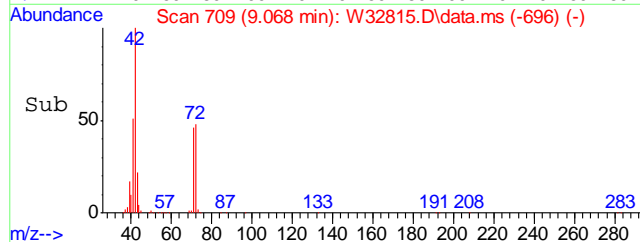
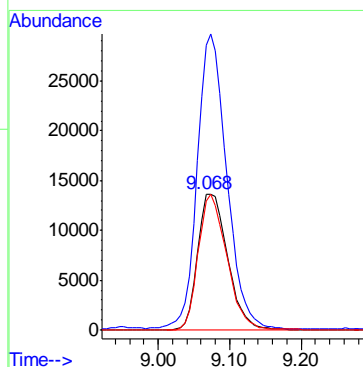
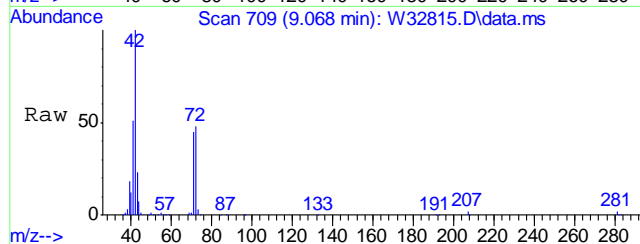
#34
TERTIARY BUTYL ALCOHOL
Concen: 3.50 PPBV
RT: 6.806 min Scan# 338
Delta R.T. -0.006 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

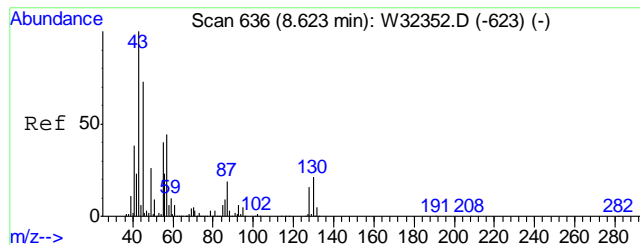
Tgt Ion	Ratio	Lower	Upper
59	100		
41	18.4	0.0	39.2
43	0.0	0.0	32.1



#36
TETRAHYDROFURAN
Concen: 4.52 PPBV
RT: 9.068 min Scan# 709
Delta R.T. -0.024 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

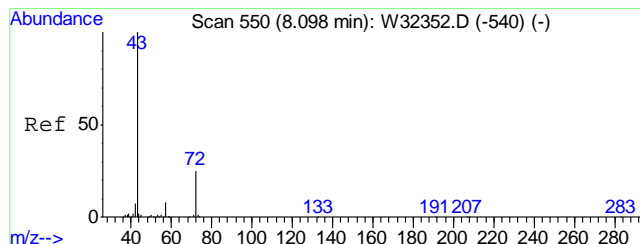
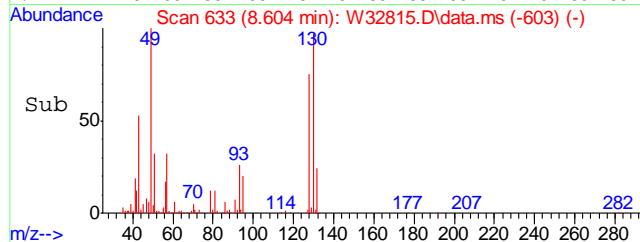
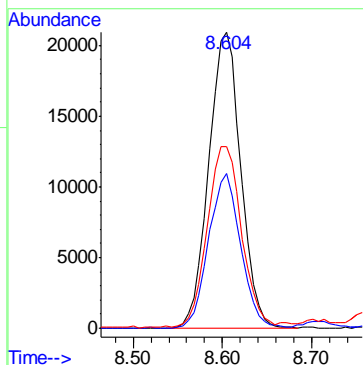
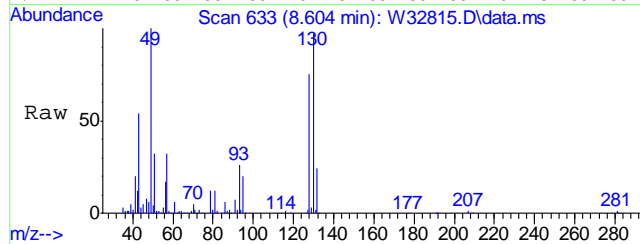
Tgt Ion	Ratio	Lower	Upper
72	100		
42	212.2	220.0	260.0#
71	94.6	74.2	114.2





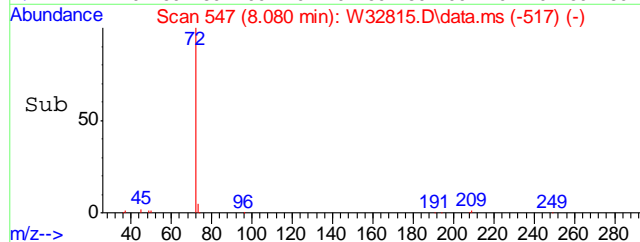
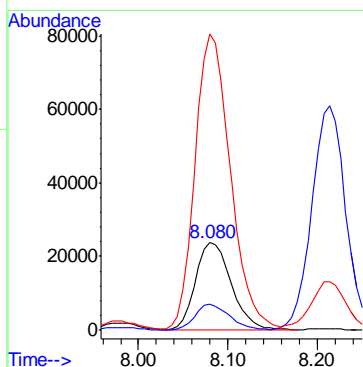
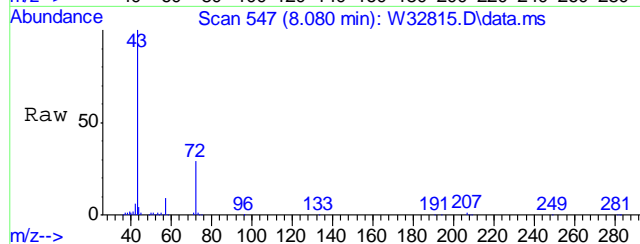
#37
 HEXANE
 Concen: 1.59 PPBV
 RT: 8.604 min Scan# 633
 Delta R.T. -0.018 min
 Lab File: W32815.D
 Acq: 20 Jul 2011 7:34 pm

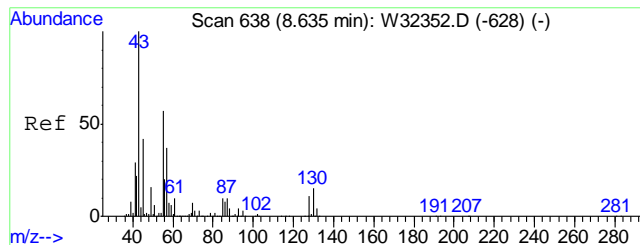
Tgt Ion	Ratio	Lower	Upper
57	100		
56	52.6	33.7	73.7
41	67.0	74.5	114.5#



#40
 METHYL ETHYL KETONE
 Concen: 7.30 PPBV
 RT: 8.080 min Scan# 547
 Delta R.T. -0.018 min
 Lab File: W32815.D
 Acq: 20 Jul 2011 7:34 pm

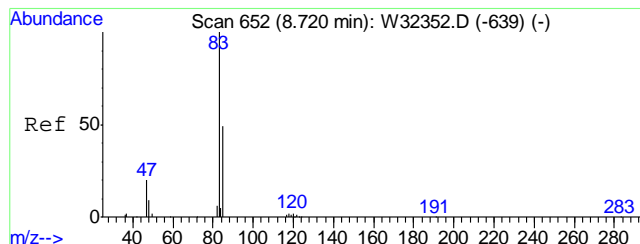
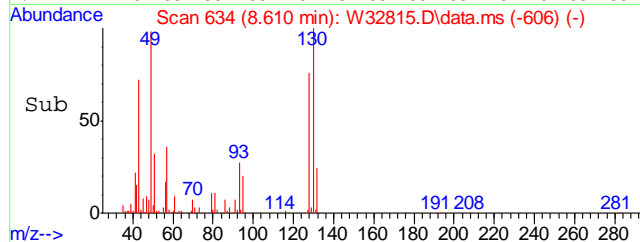
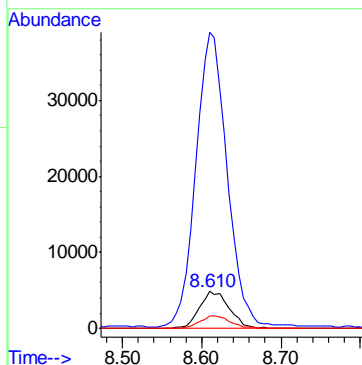
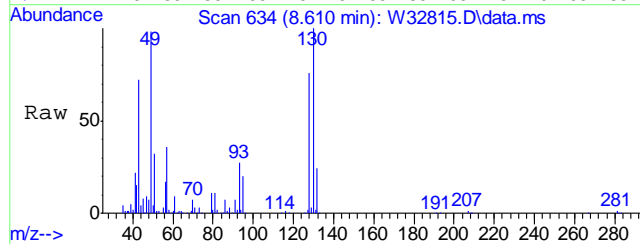
Tgt Ion	Ratio	Lower	Upper
72	100		
57	29.2	11.1	51.1
43	339.8	386.1	426.1#





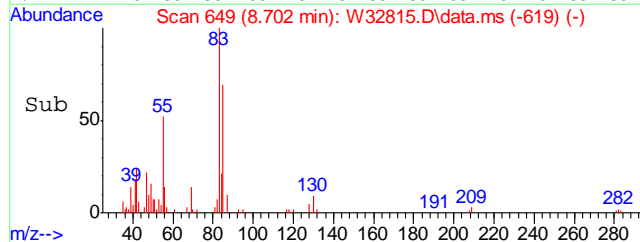
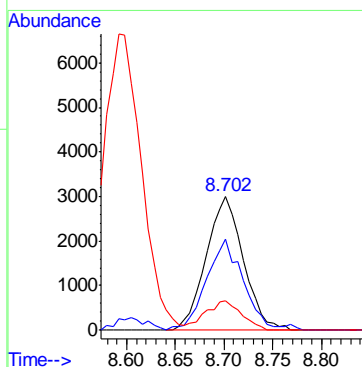
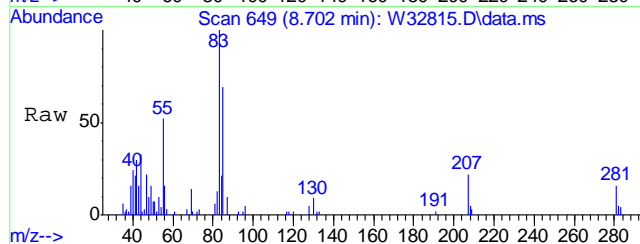
#43
ETHYL ACETATE
Concen: 2.18 PPBV
RT: 8.610 min Scan# 634
Delta R.T. -0.024 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

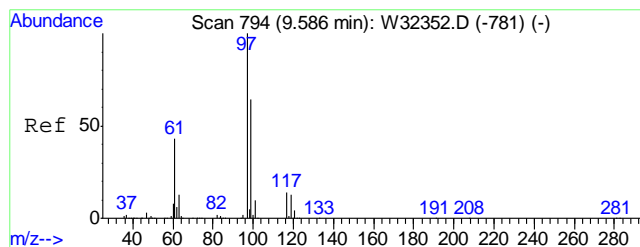
Tgt Ion	Ratio	Lower	Upper
61	100		
43	835.7	1488.2	1528.2#
88	33.0	27.8	67.8



#45
CHLOROFORM
Concen: 0.23 PPBV
RT: 8.702 min Scan# 649
Delta R.T. -0.018 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

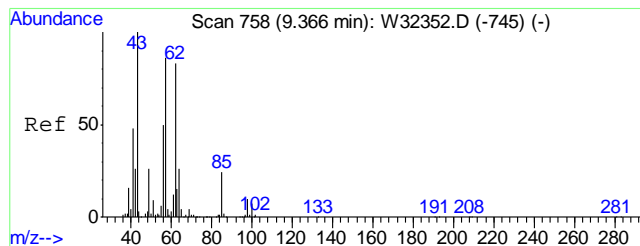
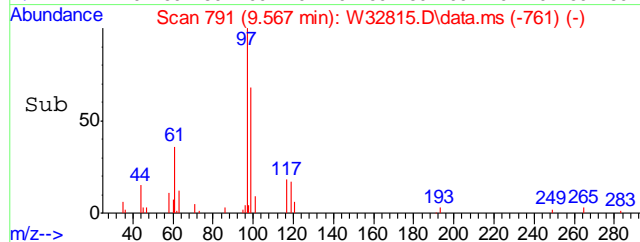
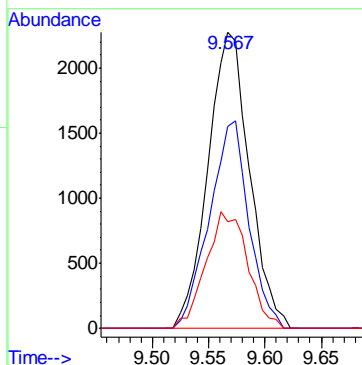
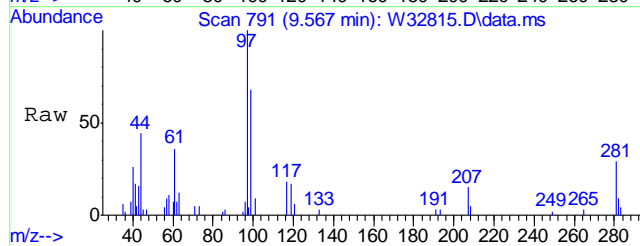
Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.4	44.6	84.6
47	21.7	2.6	42.6





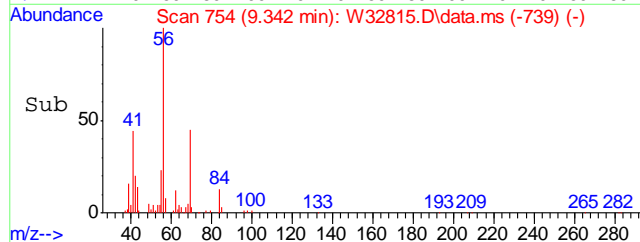
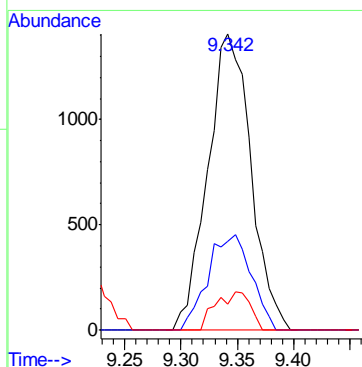
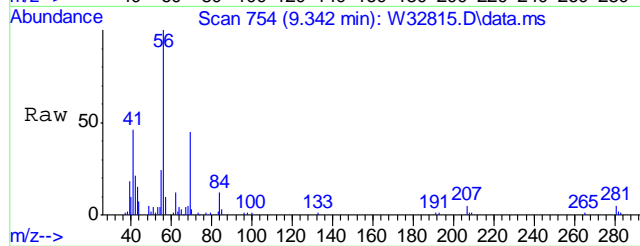
#47
1,1,1-TRICHLOROETHANE
Concen: 0.17 PPBV
RT: 9.567 min Scan# 791
Delta R.T. -0.018 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

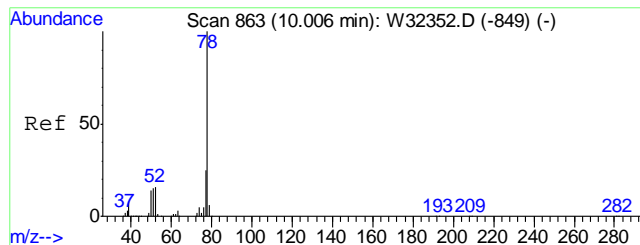
Tgt Ion:	97	Resp:	5801
Ion Ratio	Lower	Upper	
97	100		
99	66.5	43.9	83.9
61	39.7	23.1	63.1



#49
1,2-DICHLOROETHANE
Concen: 0.18 PPBV
RT: 9.342 min Scan# 754
Delta R.T. -0.024 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

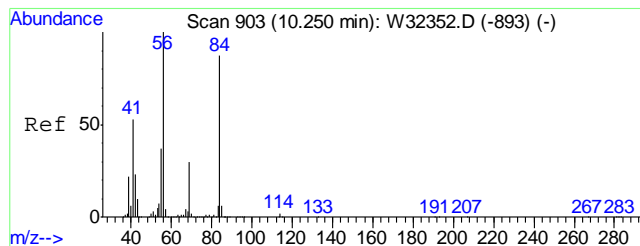
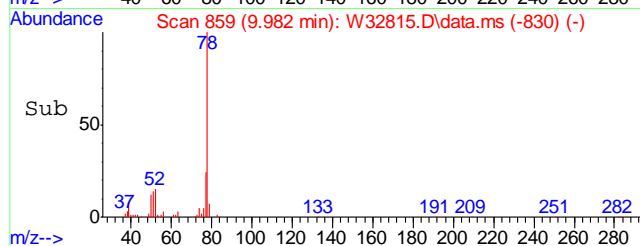
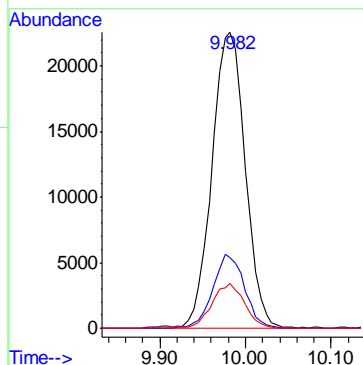
Tgt Ion:	62	Resp:	3731
Ion Ratio	Lower	Upper	
62	100		
64	32.5	12.3	52.3
98	10.3	0.0	32.0





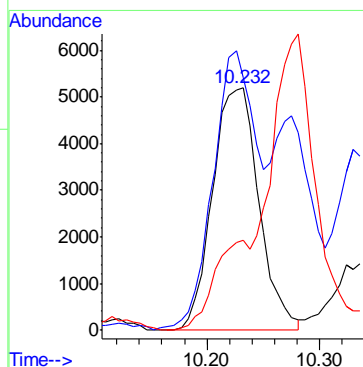
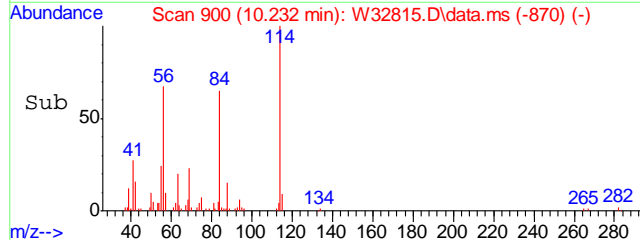
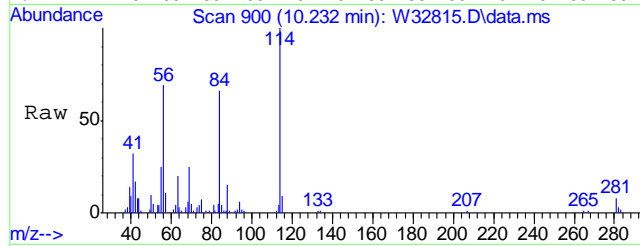
#51
BENZENE
Concen: 1.06 PPBV
RT: 9.982 min Scan# 859
Delta R.T. -0.024 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

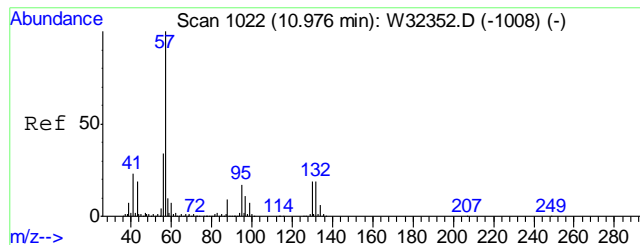
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	4.7	44.7
52	14.8	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.51 PPBV
RT: 10.232 min Scan# 900
Delta R.T. -0.018 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

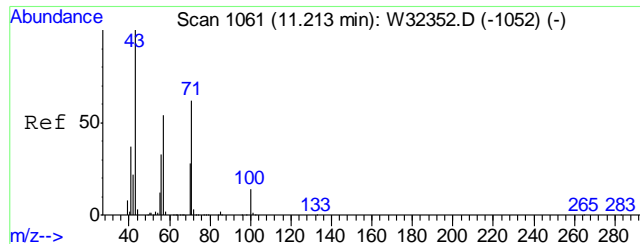
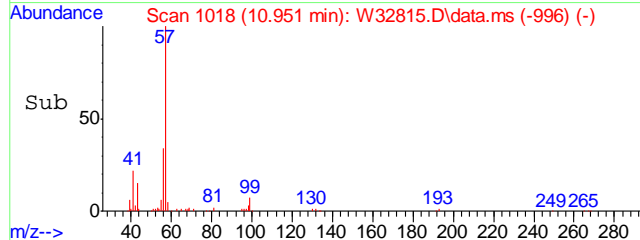
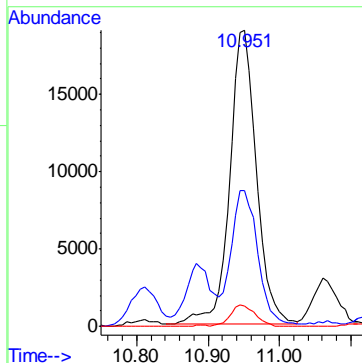
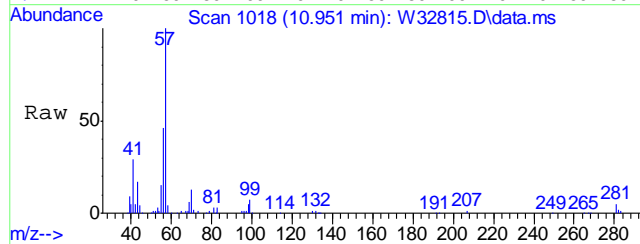
Tgt Ion	Ratio	Lower	Upper
84	100		
56	107.9	102.7	142.7
69	0.0	20.8	60.8#





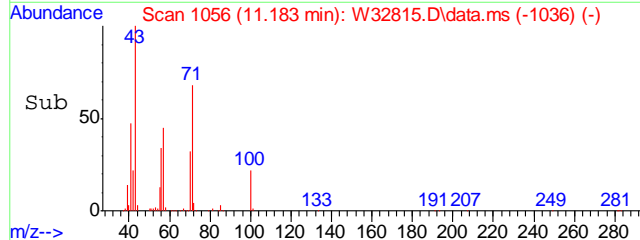
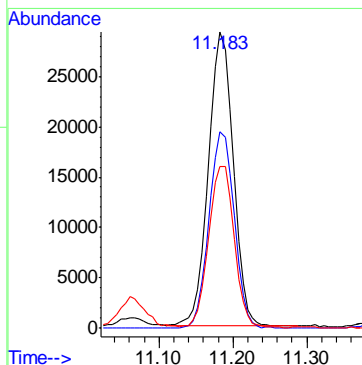
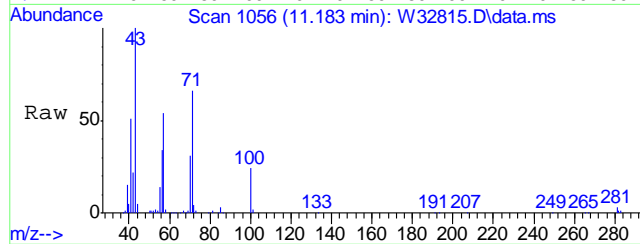
#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.50 PPBV
RT: 10.951 min Scan# 1018
Delta R.T. -0.024 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

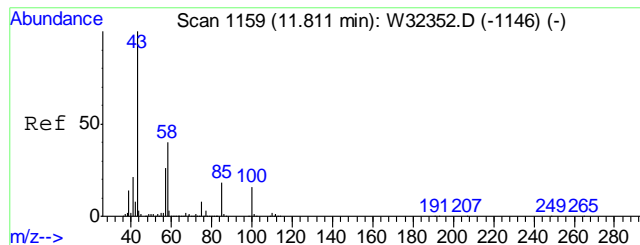
Tgt Ion	Ratio	Lower	Upper
57	100		
56	45.2	13.5	53.5
99	6.7	0.0	27.7



#62
HEPTANE
Concen: 1.80 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

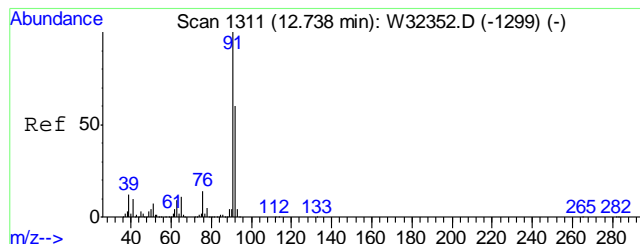
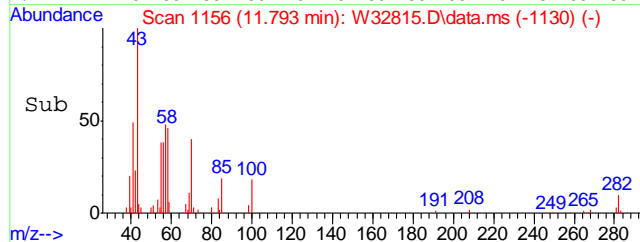
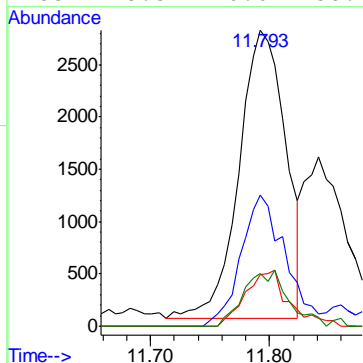
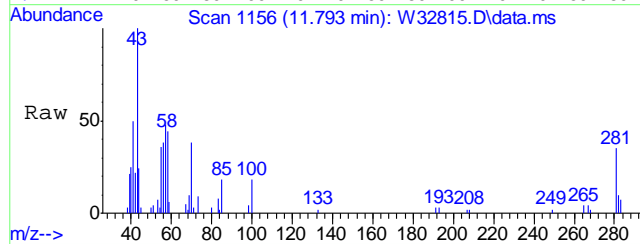
Tgt Ion	Ratio	Lower	Upper
43	100		
71	67.3	41.6	81.6
57	56.0	34.6	74.6





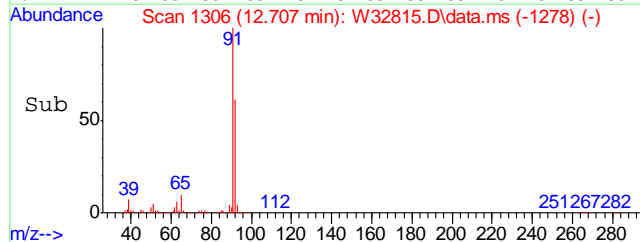
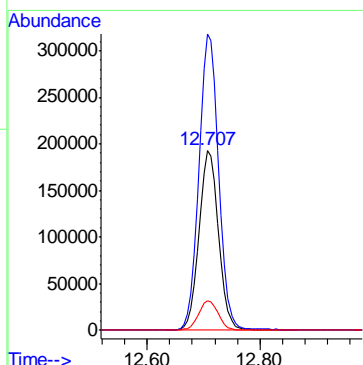
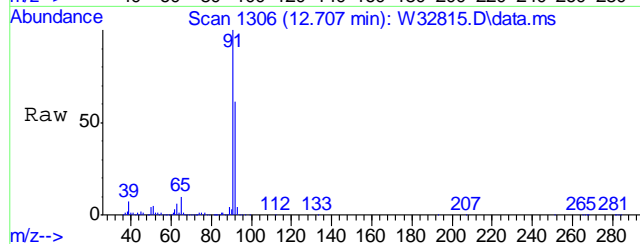
#64
METHYL ISOBUTYL KETONE
Concen: 0.19 PPBV
RT: 11.793 min Scan# 1156
Delta R.T. -0.018 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

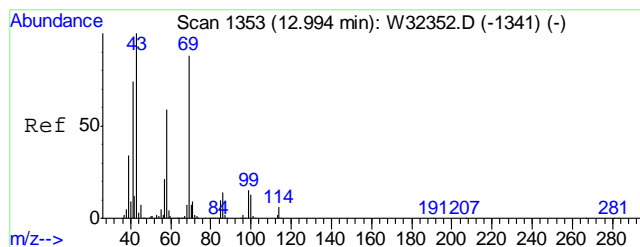
Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.8	20.7	60.7
100	17.9	0.0	36.0
85	18.3	0.0	38.1



#66
TOLUENE
Concen: 12.17 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

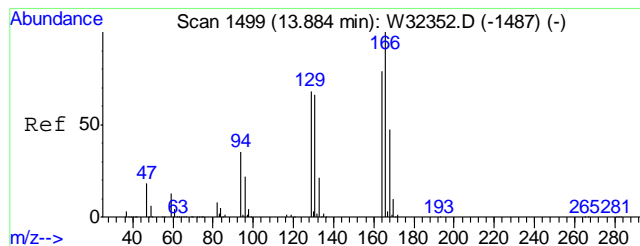
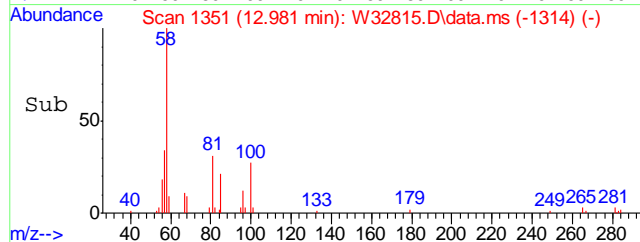
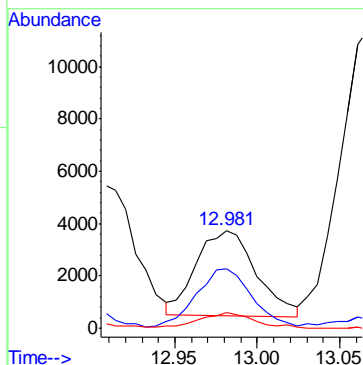
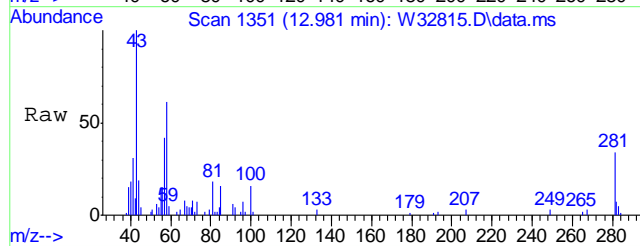
Tgt Ion	Ratio	Lower	Upper
92	100		
91	166.5	146.2	186.2
65	16.5	0.4	40.4





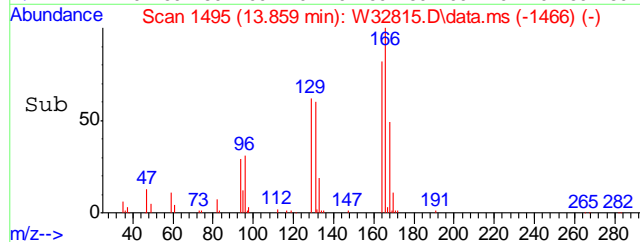
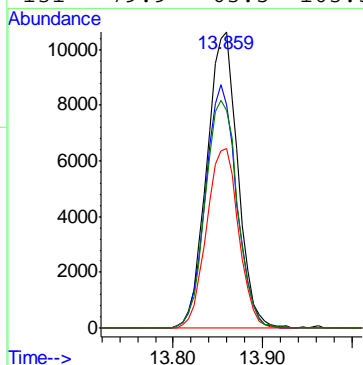
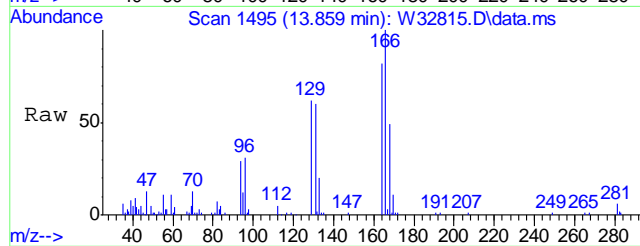
#71
2-HEXANONE
Concen: 0.25 PPBV
RT: 12.981 min Scan# 1351
Delta R.T. -0.012 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

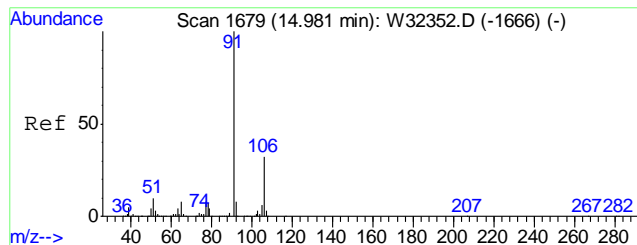
Tgt Ion: 43 Resp: 8221
Ion Ratio Lower Upper
43 100
58 65.8 39.4 79.4
100 17.0 0.0 33.6



#72
TETRACHLOROETHYLENE
Concen: 1.17 PPBV
RT: 13.859 min Scan# 1495
Delta R.T. -0.024 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

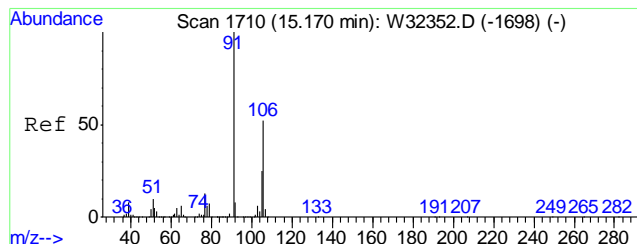
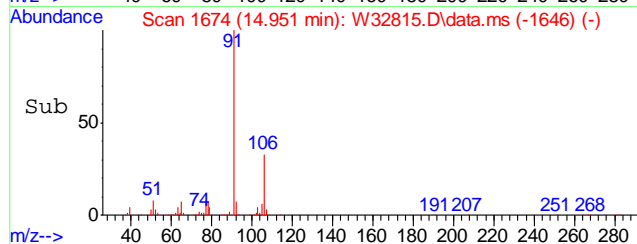
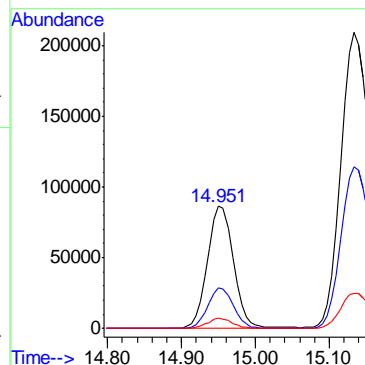
Tgt Ion: 164 Resp: 25600
Ion Ratio Lower Upper
164 100
129 82.2 66.3 106.3
168 62.4 41.0 81.0
131 79.9 63.5 103.5





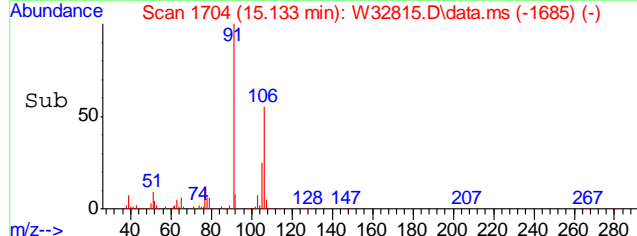
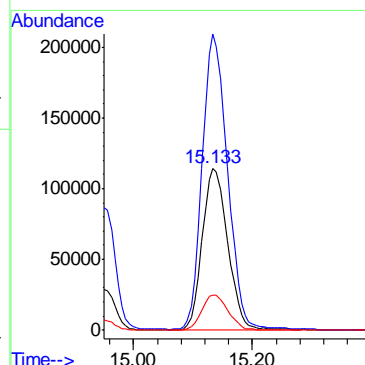
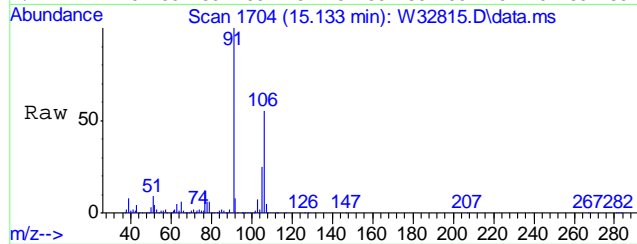
#78
ETHYLBENZENE
Concen: 3.17 PPBV
RT: 14.951 min Scan# 1674
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

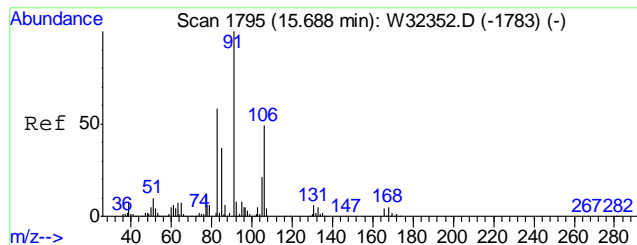
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.6	11.7	51.7
77	7.9	0.0	28.1



#79
m,p-XYLENE
Concen: 13.35 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

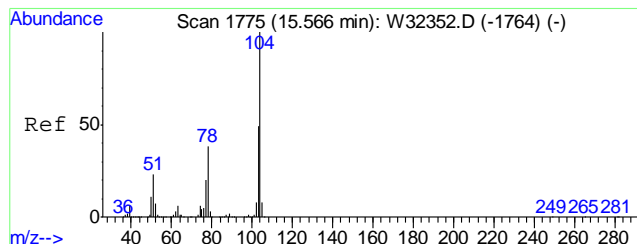
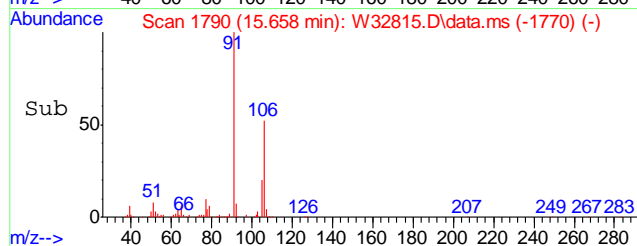
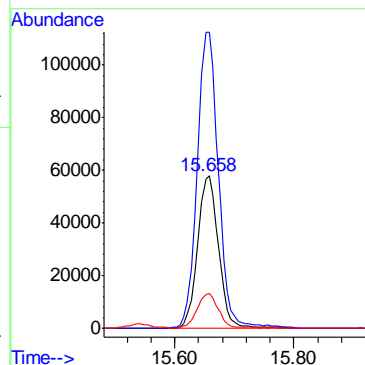
Tgt Ion	Ratio	Lower	Upper
106	100		
91	182.9	152.6	228.8
77	21.9	19.9	29.9





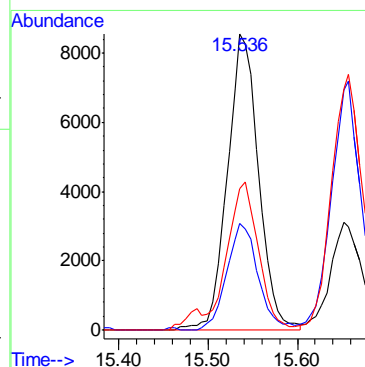
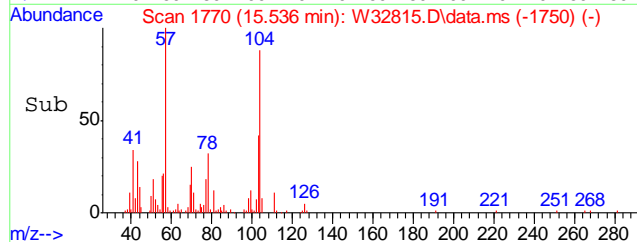
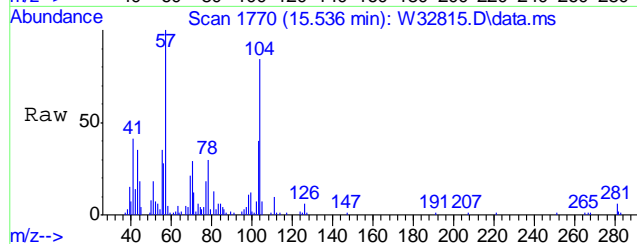
#80
o-XYLENE
Concen: 5.79 PPBV
RT: 15.658 min Scan# 1790
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

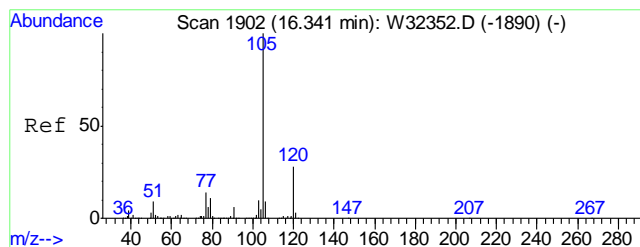
Tgt Ion	Ratio	Lower	Upper
106	100		
91	195.8	182.1	222.1
77	23.0	4.0	44.0



#81
STYRENE
Concen: 0.60 PPBV
RT: 15.536 min Scan# 1770
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

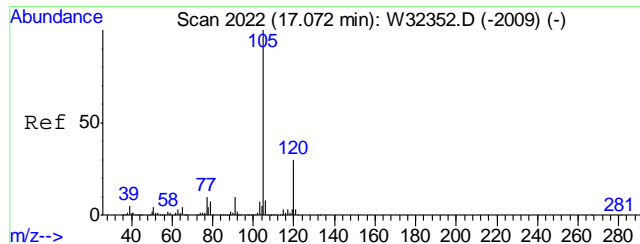
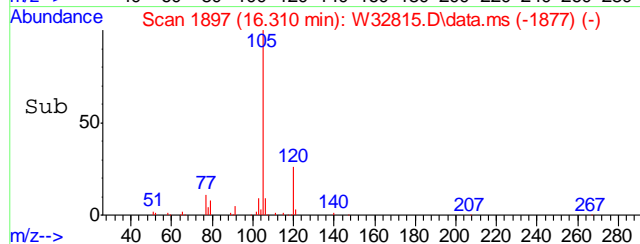
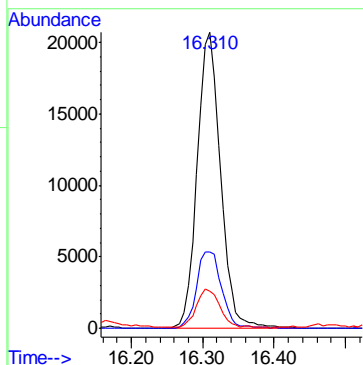
Tgt Ion	Ratio	Lower	Upper
104	100		
78	36.2	18.2	58.2
103	47.3	28.2	68.2





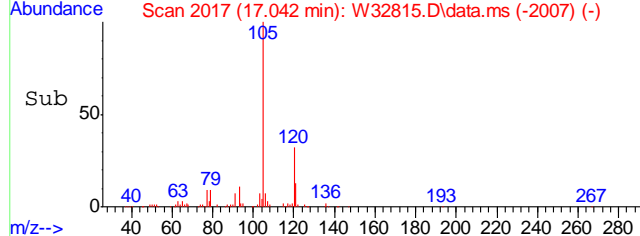
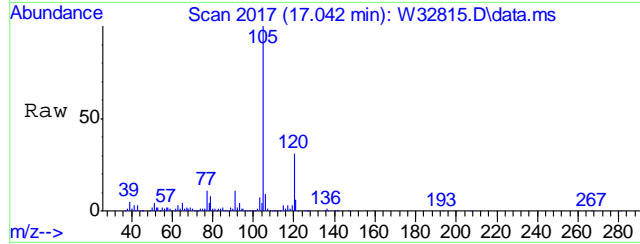
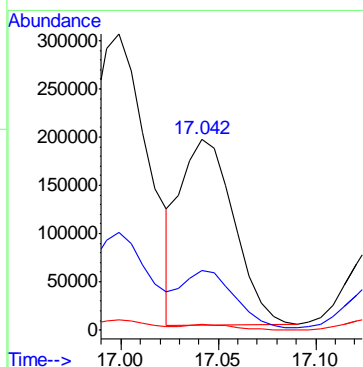
#87
ISOPROPYLBENZENE
Concen: 0.68 PPBV
RT: 16.310 min Scan# 1897
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

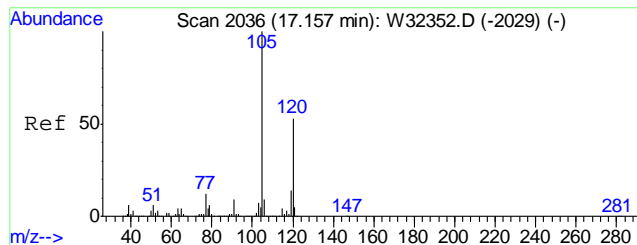
Tgt Ion:	105	Resp:	46725
Ion Ratio	Lower	Upper	
105	100		
120	27.6	6.9	46.9
77	14.1	0.0	33.9



#91
4-ETHYLTOLUENE
Concen: 6.43 PPBV
RT: 17.042 min Scan# 2017
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

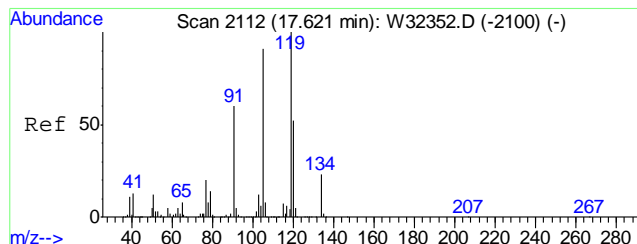
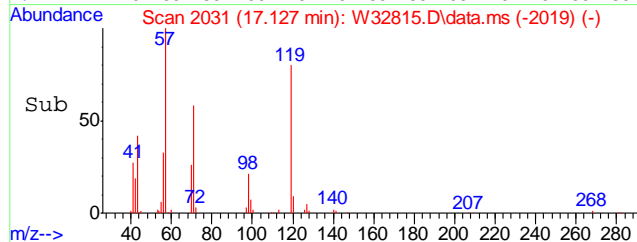
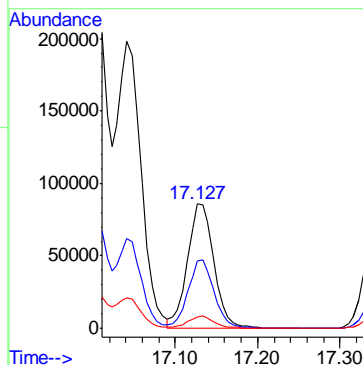
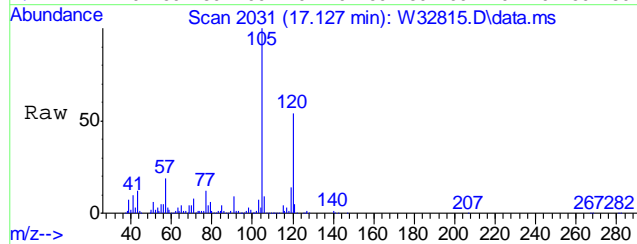
Tgt Ion:	105	Resp:	367946
Ion Ratio	Lower	Upper	
105	100		
120	30.8	9.8	49.8
119	2.8	0.0	22.9





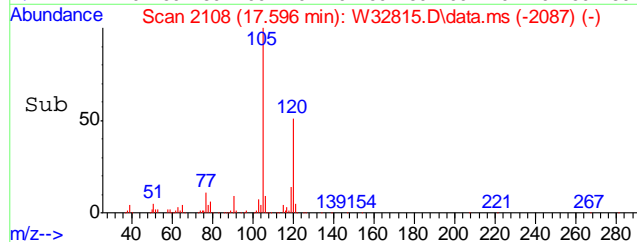
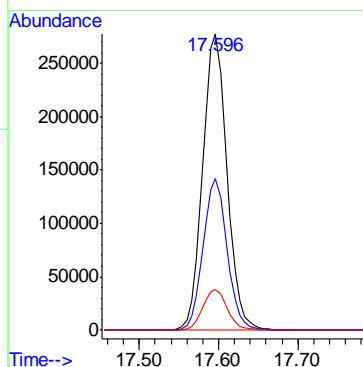
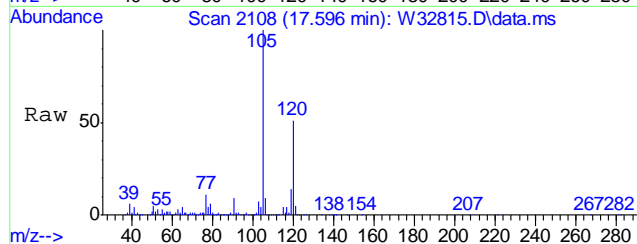
#92
1,3,5-TRIMETHYLBENZENE
Concen: 4.03 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

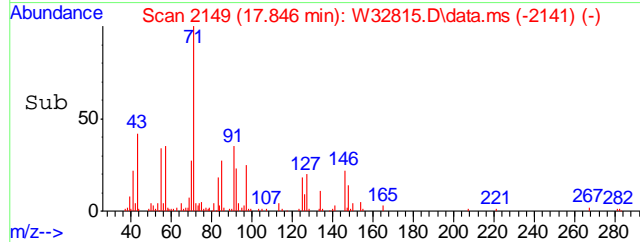
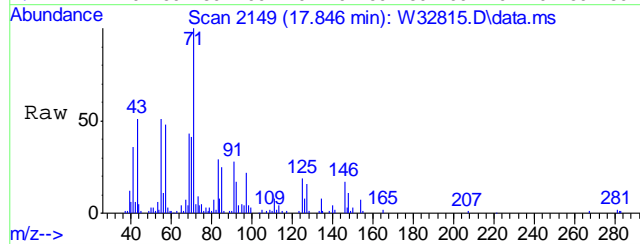
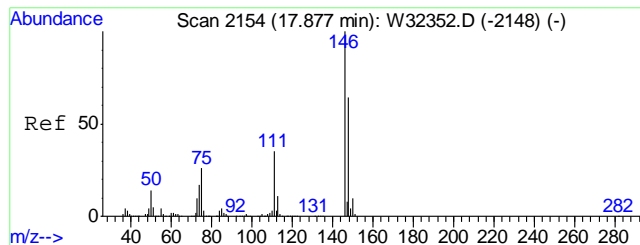
Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.1	32.9	72.9
91	9.3	0.0	29.3



#95
1,2,4-TRIMETHYLBENZENE
Concen: 13.56 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

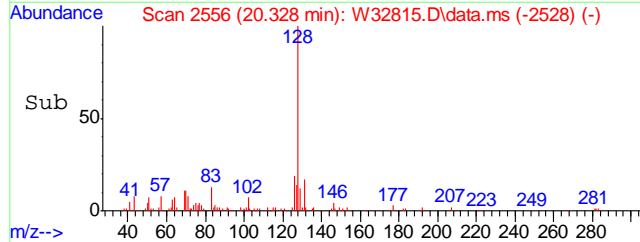
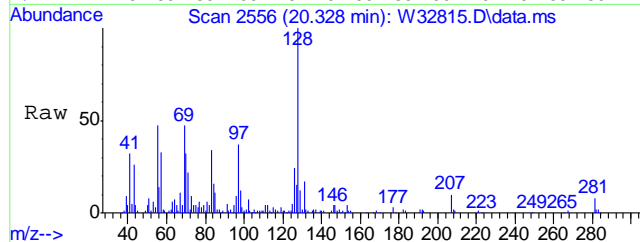
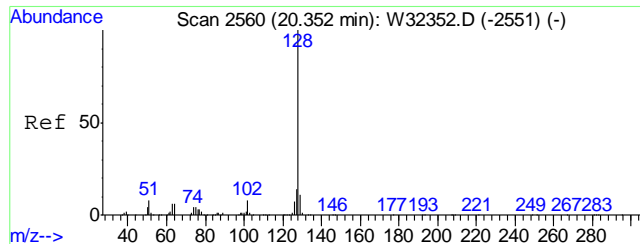
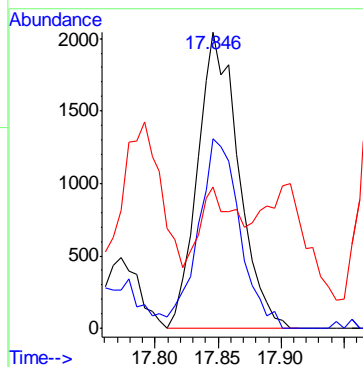
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.6	39.3	79.3
119	13.8	101.1	141.1#





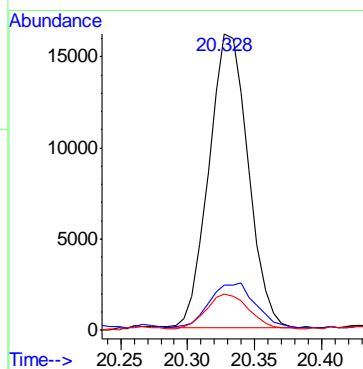
#98
p-DICHLOROBENZENE
Concen: 0.18 PPBV
RT: 17.846 min Scan# 2149
Delta R.T. -0.031 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.7	43.6	83.6
111	28.4	15.4	55.4



#107
NAPHTHALENE
Concen: 3.37 PPBV
RT: 20.328 min Scan# 2556
Delta R.T. -0.024 min
Lab File: W32815.D
Acq: 20 Jul 2011 7:34 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
127	18.7	0.0	34.3
129	14.1	0.0	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
 Data File : W32836.D
 Acq On : 21 Jul 2011 2:57 pm
 Operator : YOUMINH
 Sample : JA81330-8
 Misc : MS15514,VW1342,200,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 00:26:46 2011
 Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
 Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 QLast Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration

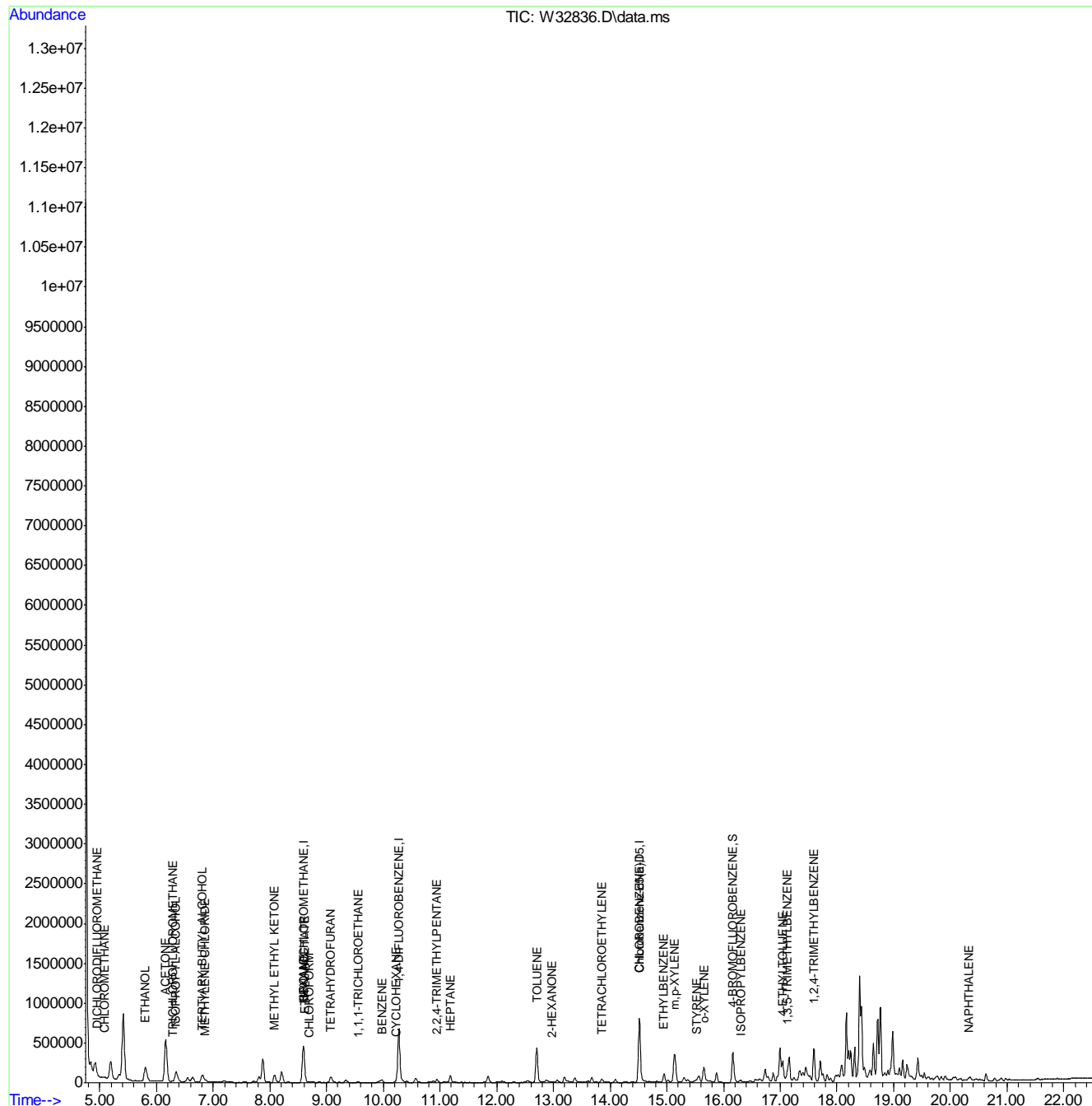
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	155800	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	781416	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	374827	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	372809	10.00	PPBV	-0.03
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	16.164	95	186842	4.61	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	92.20%
Target Compounds						
					Qvalue	
5) DICHLORODIFLUOROMETHANE	4.959	85	11365	0.25	PPBV	96
8) CHLOROMETHANE	5.093	52	2500	0.42	PPBV #	80
18) TRICHLOROFLUOROMETHANE	6.294	101	9677	0.22	PPBV	99
19) ISOPROPYL ALCOHOL	6.343	45	272818	7.19	PPBV	99
20) ACETONE	6.160	58	309616	31.06	PPBV	99
27) ETHANOL	5.806	45	359969	36.10	PPBV	99
30) METHYLENE CHLORIDE	6.861	84	8332	0.44	PPBV	87
34) TERTIARY BUTYL ALCOHOL	6.806	59	151084	3.44	PPBV	83
36) TETRAHYDROFURAN	9.074	72	24831	2.73	PPBV #	86
37) HEXANE	8.598	57	37290	1.10	PPBV #	84
40) METHYL ETHYL KETONE	8.080	72	41063	4.39	PPBV	98
43) ETHYL ACETATE	8.610	61	8456	1.40	PPBV #	14
45) CHLOROFORM	8.690	83	4914	0.14	PPBV	92
47) 1,1,1-TRICHLOROETHANE	9.561	97	3571	0.10	PPBV	99
51) BENZENE	9.976	78	37905	0.64	PPBV	98
52) CYCLOHEXANE	10.220	84	9031	0.30	PPBV #	81
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	32444	0.32	PPBV	77
62) HEPTANE	11.183	43	49842	1.30	PPBV	93
66) TOLUENE	12.707	92	262177	6.56	PPBV	99
71) 2-HEXANONE	12.981	43	6240	0.17	PPBV	96
72) TETRACHLOROETHYLENE	13.853	164	11860	0.48	PPBV	98
78) ETHYLBENZENE	14.951	91	112706	1.51	PPBV	99
79) m,p-XYLENE	15.133	106	172875	5.98	PPBV	99
80) o-XYLENE	15.652	106	71120	2.55	PPBV	99
81) STYRENE	15.536	104	10312	0.26	PPBV	94
87) ISOPROPYLBENZENE	16.304	105	23153	0.29	PPBV	98
91) 4-ETHYLTOLUENE	17.042	105	175137	2.68	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.127	105	93586	1.73	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.590	105	287145	5.80	PPBV #	31
107) NAPHTHALENE	20.334	128	11486	1.03	PPBV	91

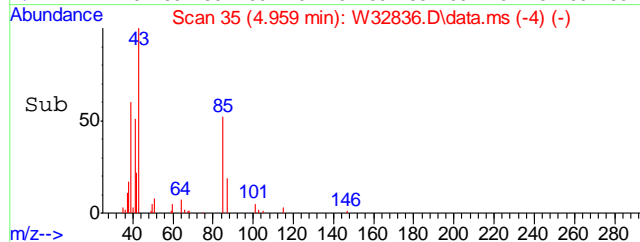
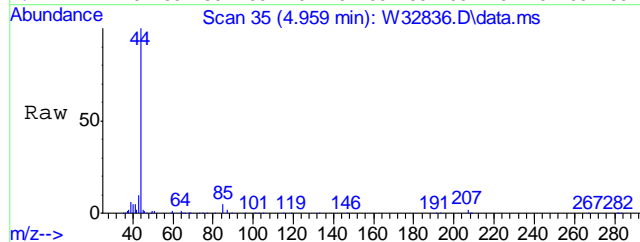
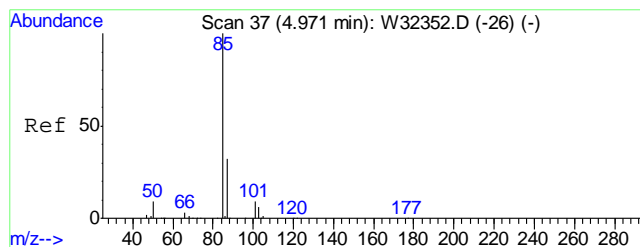
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
Data File : W32836.D
Acq On : 21 Jul 2011 2:57 pm
Operator : YOUMINH
Sample : JA81330-8
Misc : MS15514,VW1342,200,,,1
ALS Vial : 9 Sample Multiplier: 1

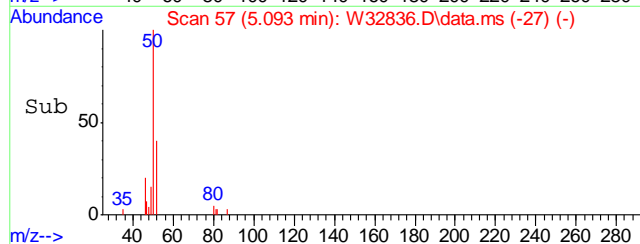
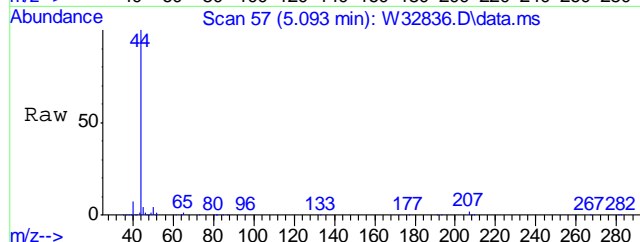
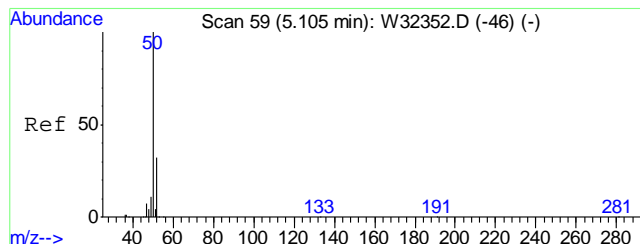
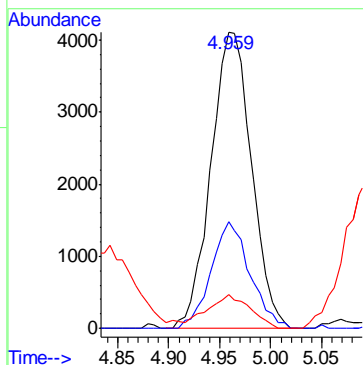
Quant Time: Aug 17 00:26:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





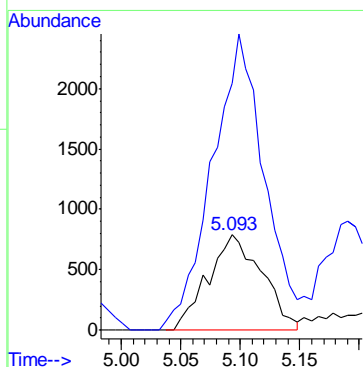
#5
DICHLORODIFLUOROMETHANE
Concen: 0.25 PPBV
RT: 4.959 min Scan# 35
Delta R.T. -0.012 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

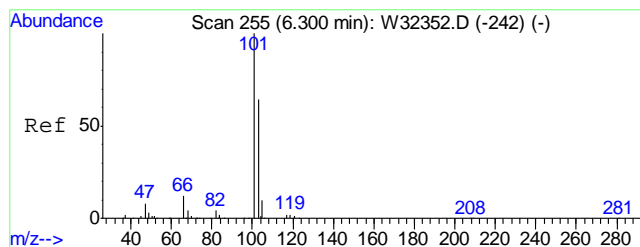
Tgt Ion:	85	Resp:	11365
Ion Ratio	Lower	Upper	
85	100		
87	34.5	12.0	52.0
50	12.0	0.0	30.7



#8
CHLOROMETHANE
Concen: 0.42 PPBV
RT: 5.093 min Scan# 57
Delta R.T. -0.012 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

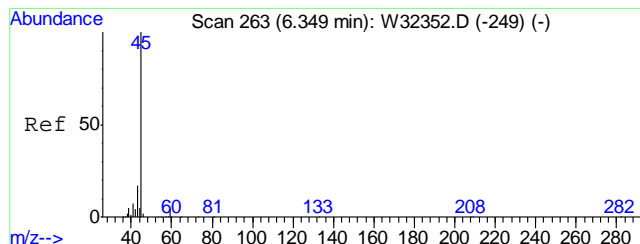
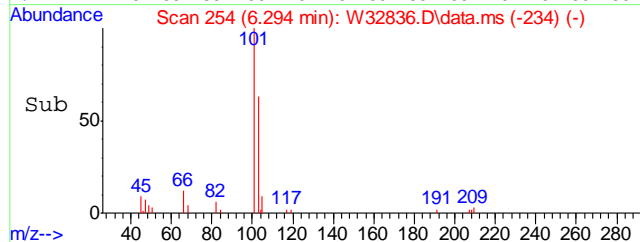
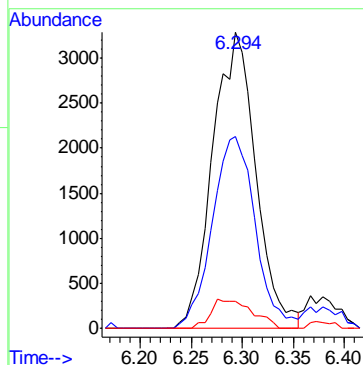
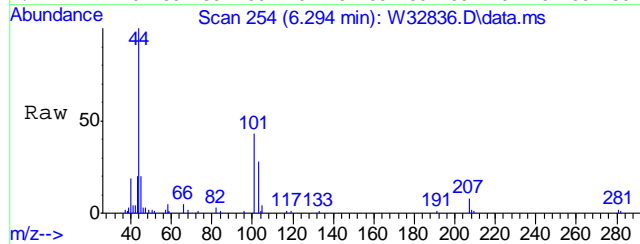
Tgt Ion:	52	Resp:	2500
Ion Ratio	Lower	Upper	
52	100		
50	250.1	268.6	308.6#





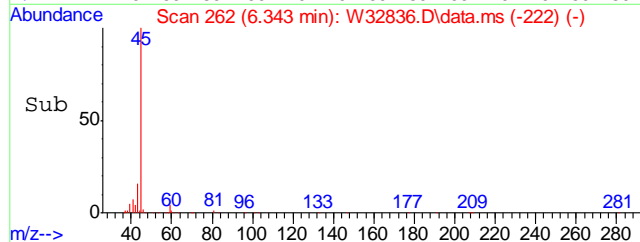
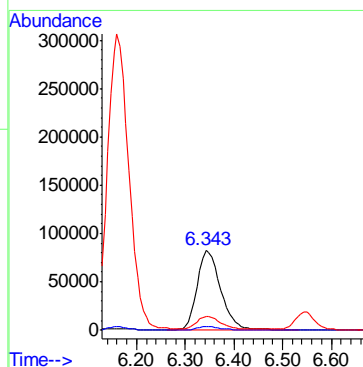
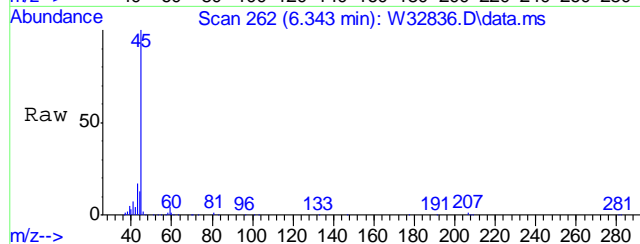
#18
 TRICHLOROFLUOROMETHANE
 Concen: 0.22 PPBV
 RT: 6.294 min Scan# 254
 Delta R.T. -0.006 min
 Lab File: W32836.D
 Acq: 21 Jul 2011 2:57 pm

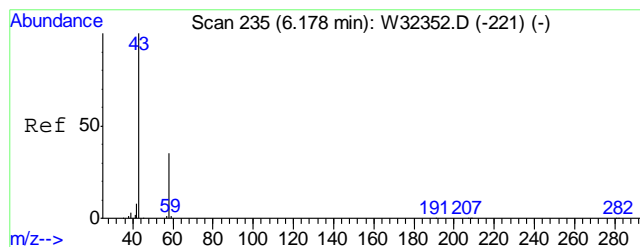
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.7	44.9	84.9
105	9.3	0.0	30.4



#19
 ISOPROPYL ALCOHOL
 Concen: 7.19 PPBV
 RT: 6.343 min Scan# 262
 Delta R.T. -0.006 min
 Lab File: W32836.D
 Acq: 21 Jul 2011 2:57 pm

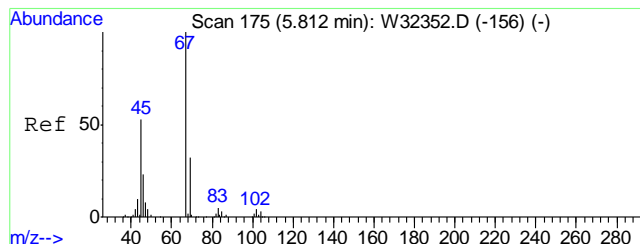
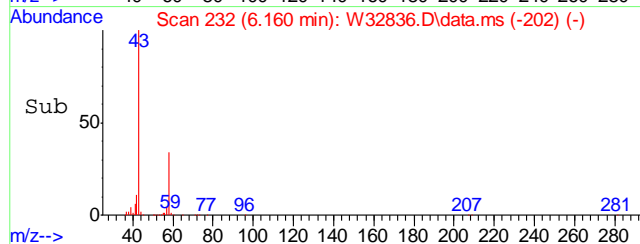
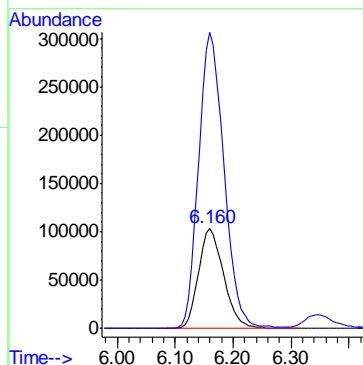
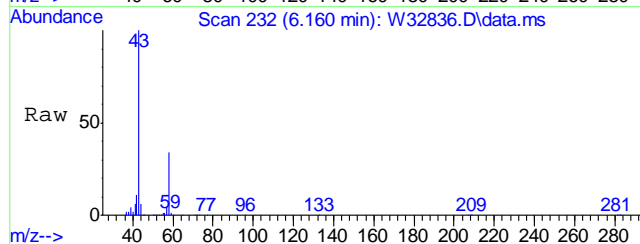
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.2	0.0	24.3
43	16.9	0.0	37.5





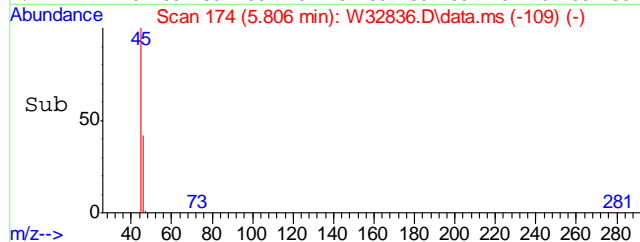
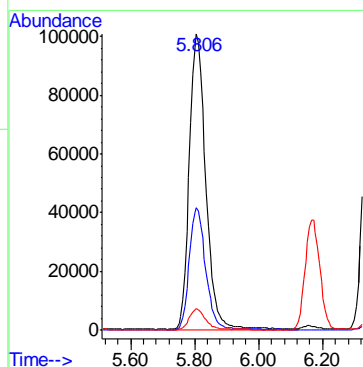
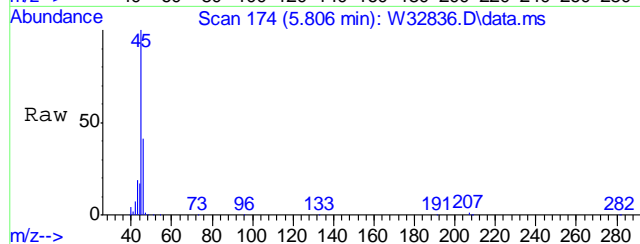
#20
 ACETONE
 Concen: 31.06 PPBV
 RT: 6.160 min Scan# 232
 Delta R.T. -0.018 min
 Lab File: W32836.D
 Acq: 21 Jul 2011 2:57 pm

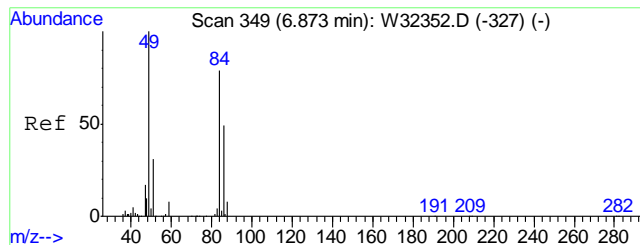
Tgt Ion: 58 Resp: 309616
 Ion Ratio Lower Upper
 58 100
 43 299.3 277.6 317.6



#27
 ETHANOL
 Concen: 36.10 PPBV
 RT: 5.806 min Scan# 174
 Delta R.T. -0.006 min
 Lab File: W32836.D
 Acq: 21 Jul 2011 2:57 pm

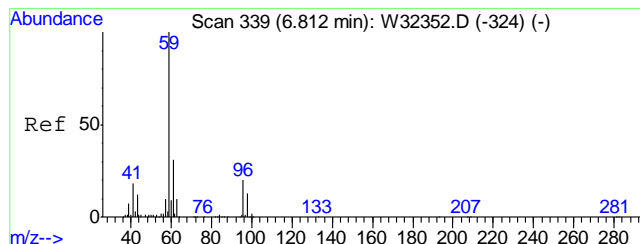
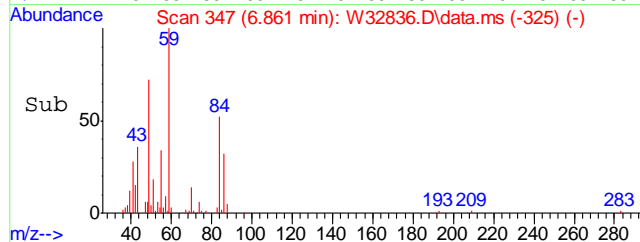
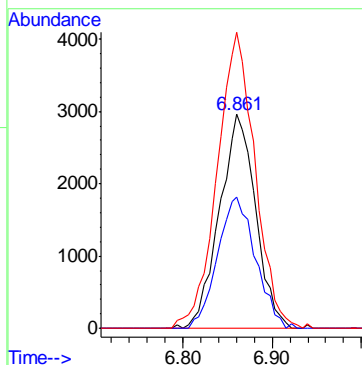
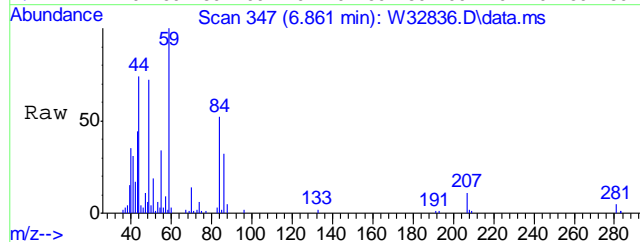
Tgt Ion: 45 Resp: 359969
 Ion Ratio Lower Upper
 45 100
 46 41.0 20.6 60.6
 42 6.9 0.0 28.7





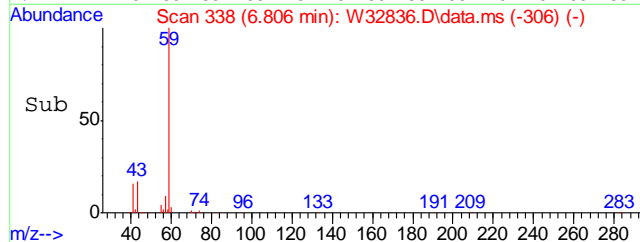
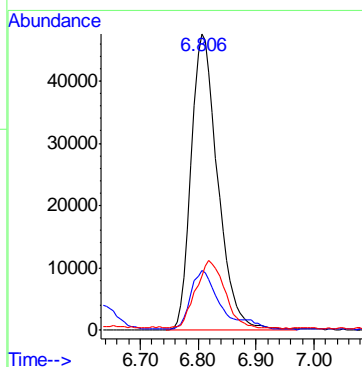
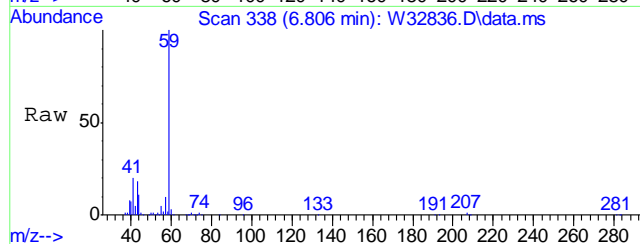
#30
METHYLENE CHLORIDE
Concen: 0.44 PPBV
RT: 6.861 min Scan# 347
Delta R.T. -0.012 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

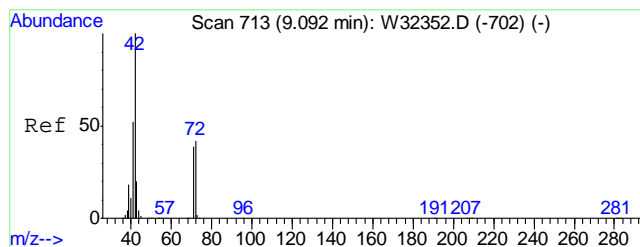
Tgt Ion	84	Resp	8332
Ion Ratio	Lower	Upper	
84	100		
86	64.5	42.9	82.9
49	144.9	0.0	324.2



#34
TERTIARY BUTYL ALCOHOL
Concen: 3.44 PPBV
RT: 6.806 min Scan# 338
Delta R.T. -0.006 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

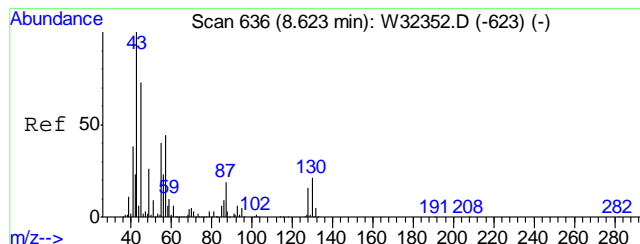
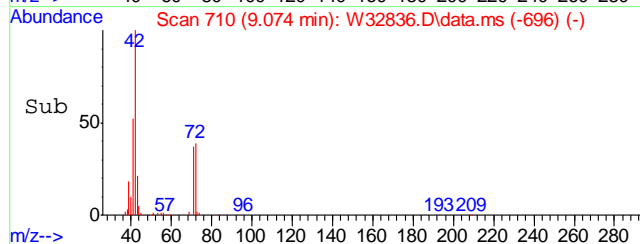
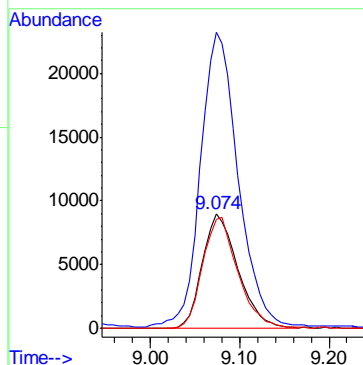
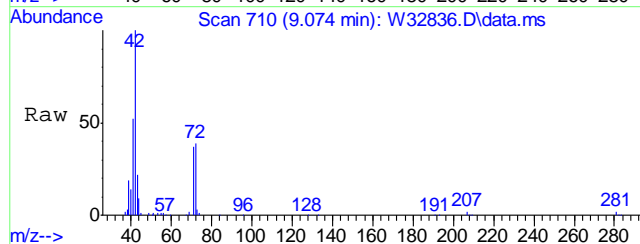
Tgt Ion	59	Resp	151084
Ion Ratio	Lower	Upper	
59	100		
41	22.5	0.0	39.2
43	24.3	0.0	32.1





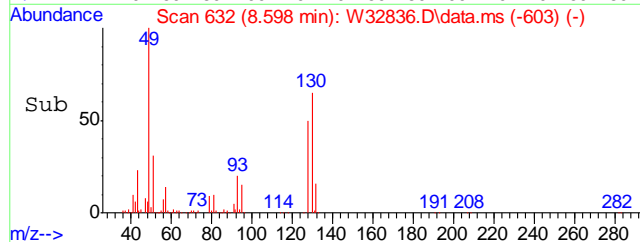
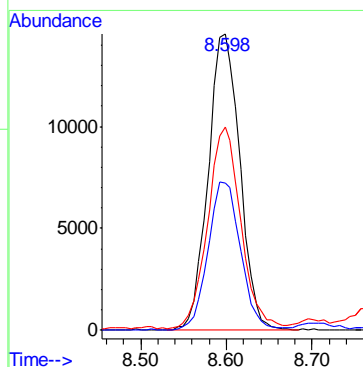
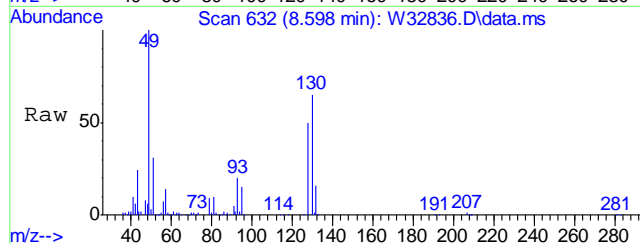
#36
TETRAHYDROFURAN
Concen: 2.73 PPBV
RT: 9.074 min Scan# 710
Delta R.T. -0.018 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

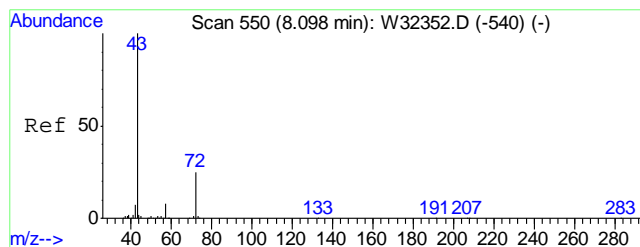
Tgt Ion: 72 Resp: 24831
Ion Ratio Lower Upper
72 100
42 271.0 220.0 260.0#
71 95.9 74.2 114.2



#37
HEXANE
Concen: 1.10 PPBV
RT: 8.598 min Scan# 632
Delta R.T. -0.024 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

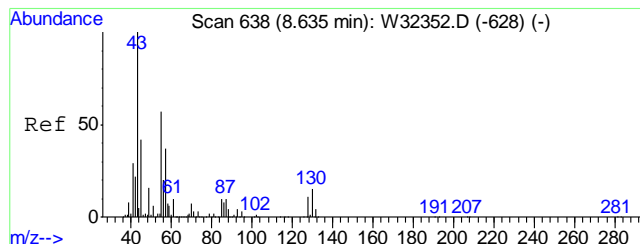
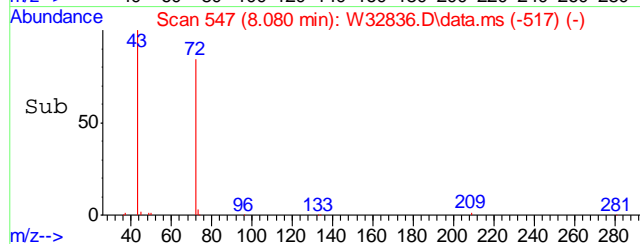
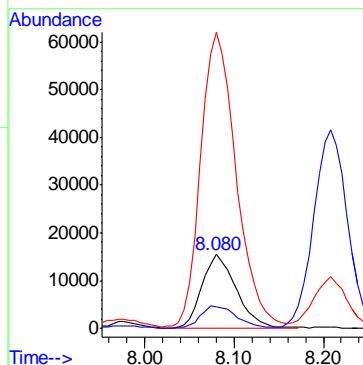
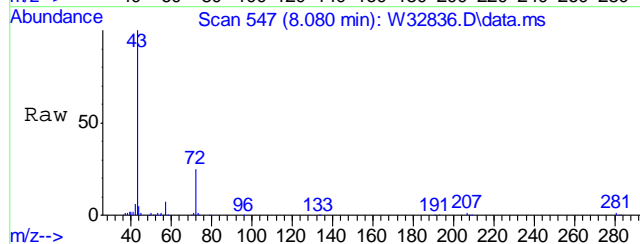
Tgt Ion: 57 Resp: 37290
Ion Ratio Lower Upper
57 100
56 51.5 33.7 73.7
41 71.7 74.5 114.5#





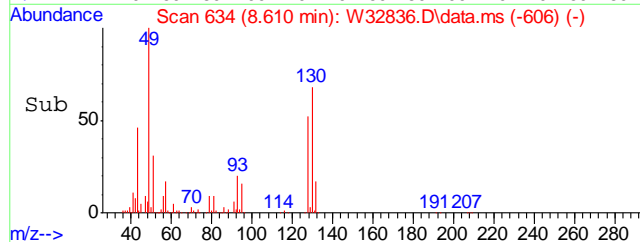
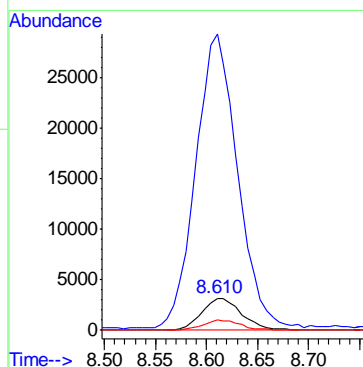
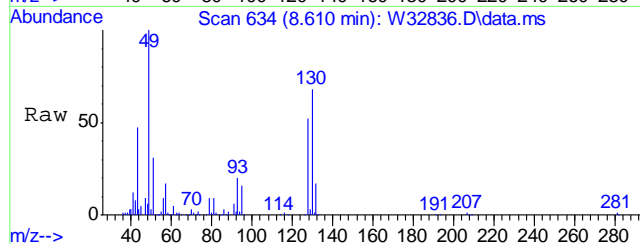
#40
METHYL ETHYL KETONE
Concen: 4.39 PPBV
RT: 8.080 min Scan# 547
Delta R.T. -0.018 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

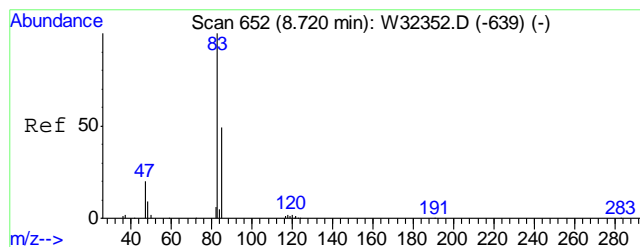
Tgt Ion	Ratio	Lower	Upper
72	100		
57	29.3	11.1	51.1
43	400.6	386.1	426.1



#43
ETHYL ACETATE
Concen: 1.40 PPBV
RT: 8.610 min Scan# 634
Delta R.T. -0.024 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

Tgt Ion	Ratio	Lower	Upper
61	100		
43	981.9	1488.2	1528.2#
88	29.0	27.8	67.8





#45

CHLOROFORM

Concen: 0.14 PPBV

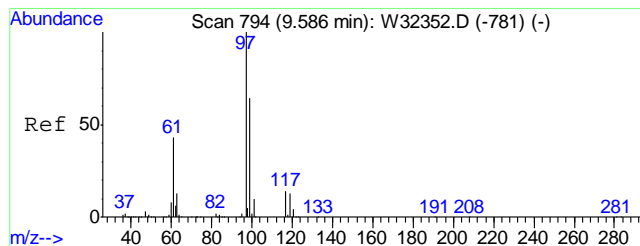
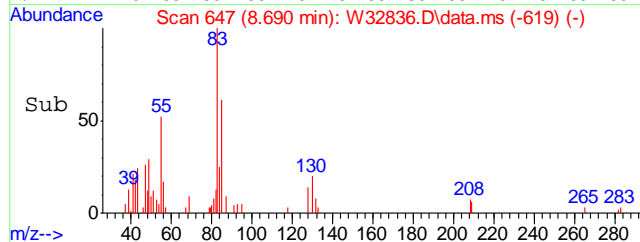
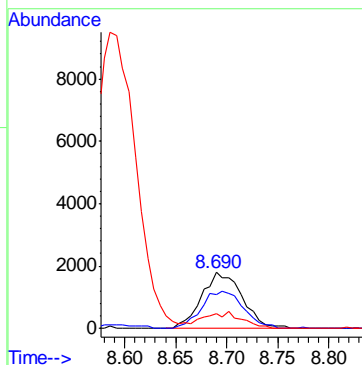
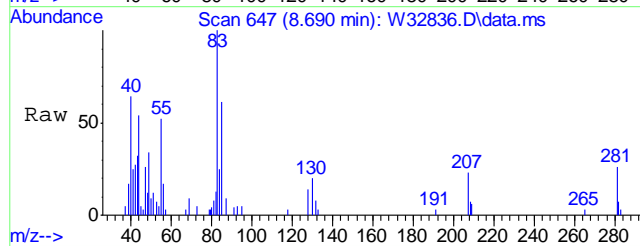
RT: 8.690 min Scan# 647

Delta R.T. -0.030 min

Lab File: W32836.D

Acq: 21 Jul 2011 2:57 pm

Tgt Ion:	83	Resp:	4914
Ion Ratio	Lower	Upper	
83	100		
85	69.0	44.6	84.6
47	29.0	2.6	42.6



#47

1,1,1-TRICHLOROETHANE

Concen: 0.10 PPBV

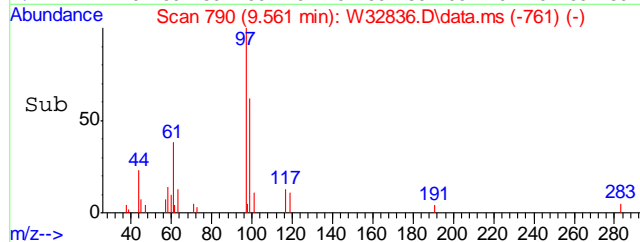
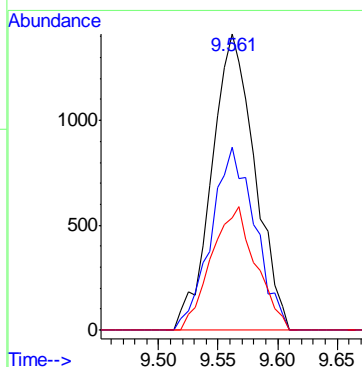
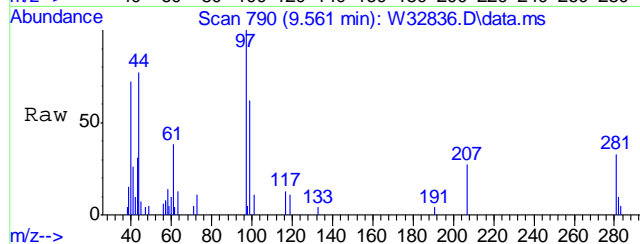
RT: 9.561 min Scan# 790

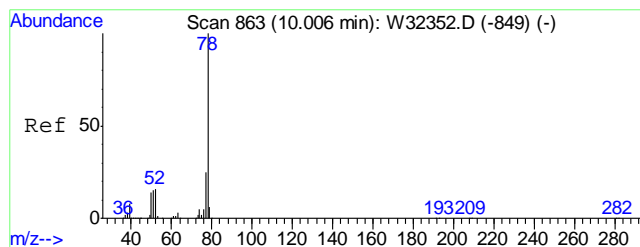
Delta R.T. -0.024 min

Lab File: W32836.D

Acq: 21 Jul 2011 2:57 pm

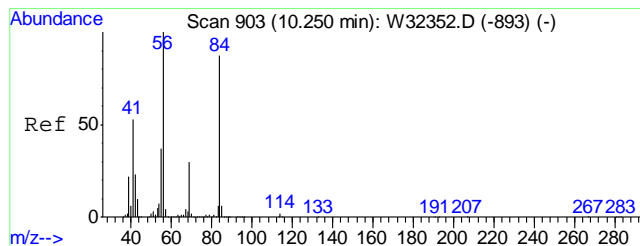
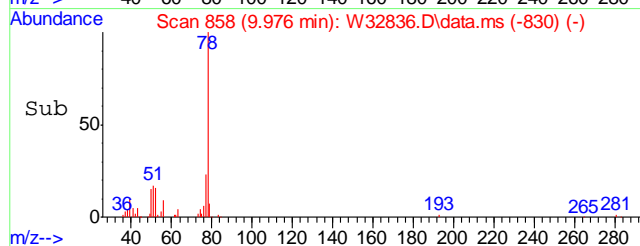
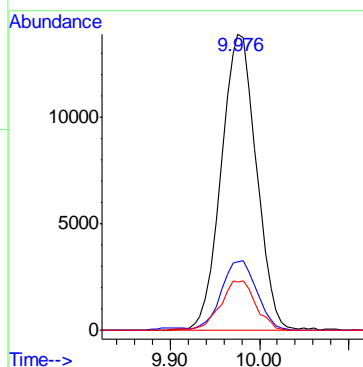
Tgt Ion:	97	Resp:	3571
Ion Ratio	Lower	Upper	
97	100		
99	62.9	43.9	83.9
61	43.0	23.1	63.1





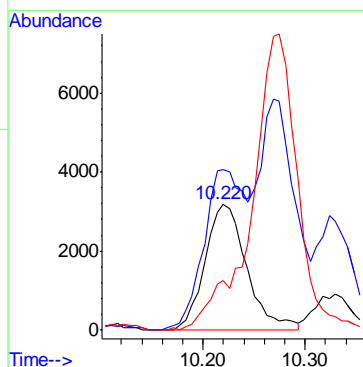
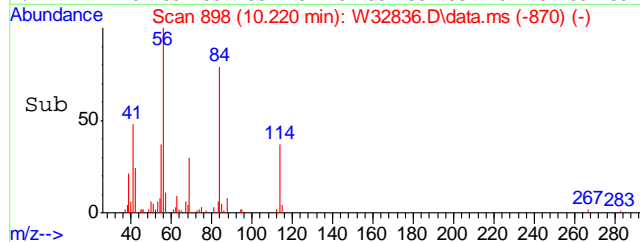
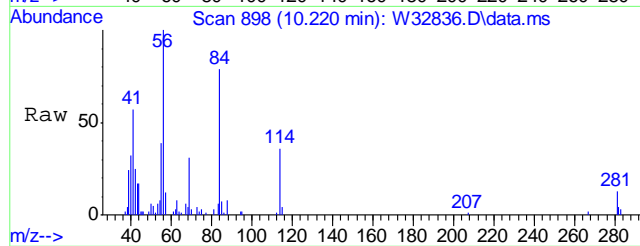
#51
BENZENE
Concen: 0.64 PPBV
RT: 9.976 min Scan# 858
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

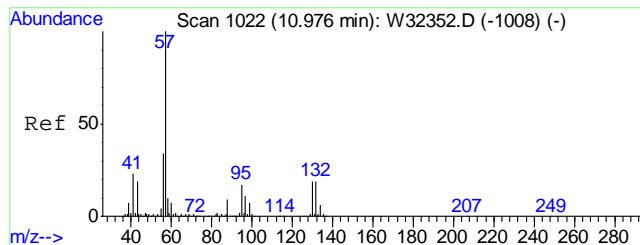
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	4.7	44.7
52	17.1	0.0	35.9



#52
CYCLOHEXANE
Concen: 0.30 PPBV
RT: 10.220 min Scan# 898
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

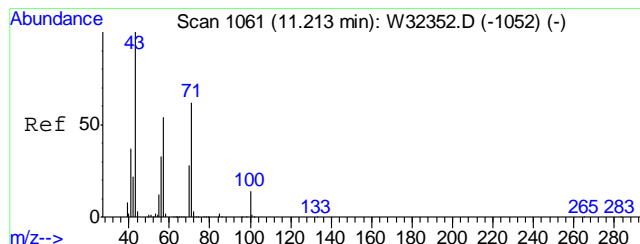
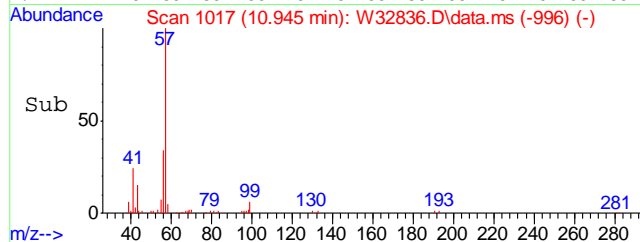
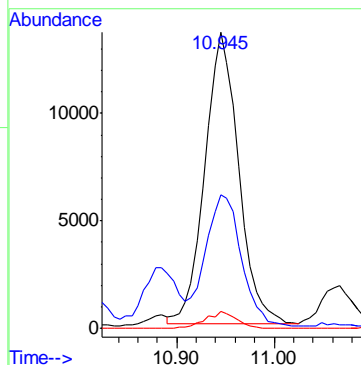
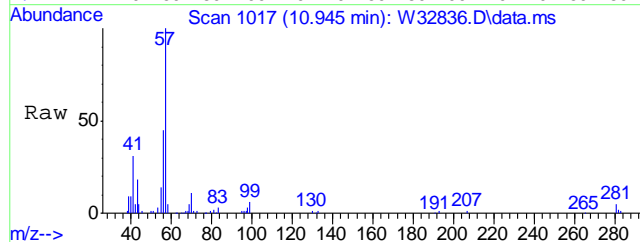
Tgt Ion	Ratio	Lower	Upper
84	100		
56	126.8	102.7	142.7
69	0.0	20.8	60.8#





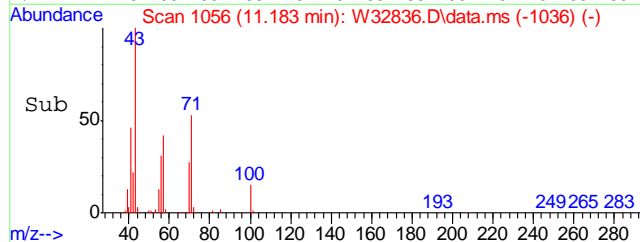
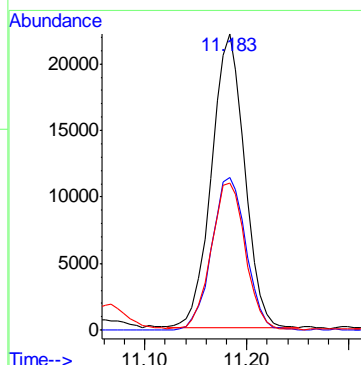
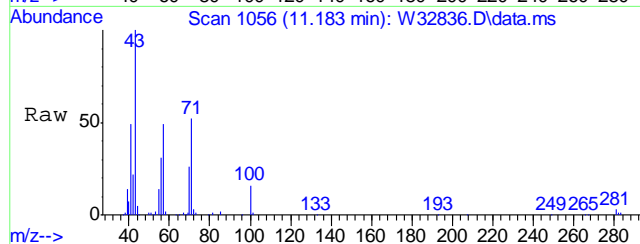
#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.32 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

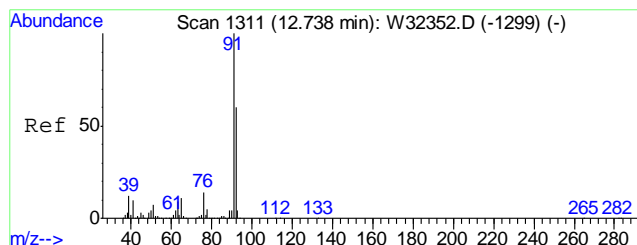
Tgt Ion	Ratio	Lower	Upper
57	100		
56	48.7	13.5	53.5
99	5.2	0.0	27.7



#62
HEPTANE
Concen: 1.30 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
71	54.0	41.6	81.6
57	52.3	34.6	74.6





#66

TOLUENE

Concen: 6.56 PPBV

RT: 12.707 min Scan# 1306

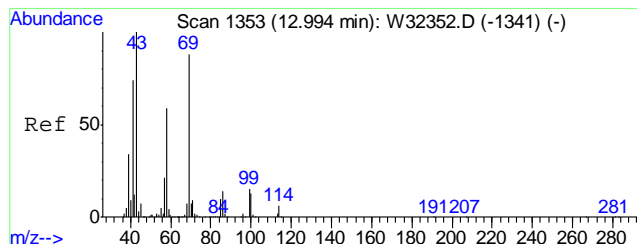
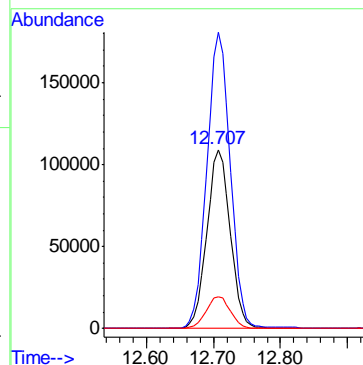
Delta R.T. -0.030 min

Lab File: W32836.D

Acq: 21 Jul 2011 2:57 pm

Tgt Ion: 92 Resp: 262177

Ion	Ratio	Lower	Upper
92	100		
91	166.8	146.2	186.2
65	18.3	0.4	40.4



#71

2-HEXANONE

Concen: 0.17 PPBV

RT: 12.981 min Scan# 1351

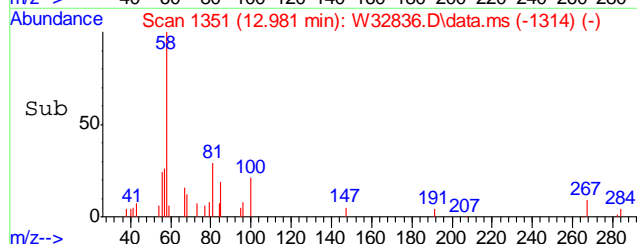
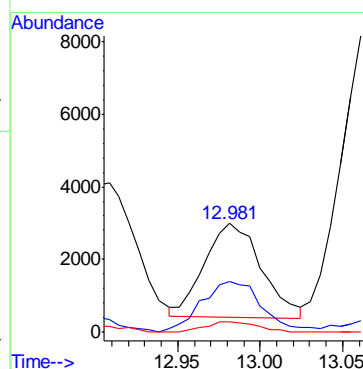
Delta R.T. -0.012 min

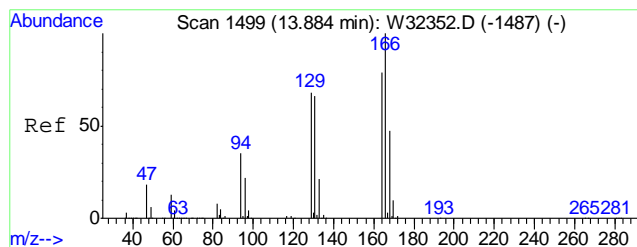
Lab File: W32836.D

Acq: 21 Jul 2011 2:57 pm

Tgt Ion: 43 Resp: 6240

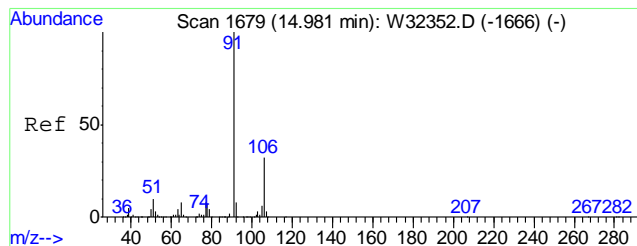
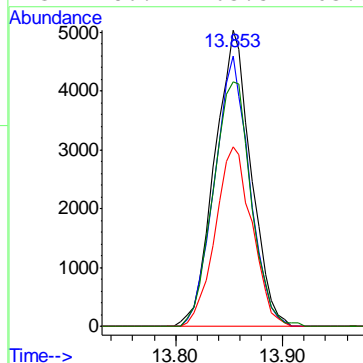
Ion	Ratio	Lower	Upper
43	100		
58	57.2	39.4	79.4
100	9.7	0.0	33.6





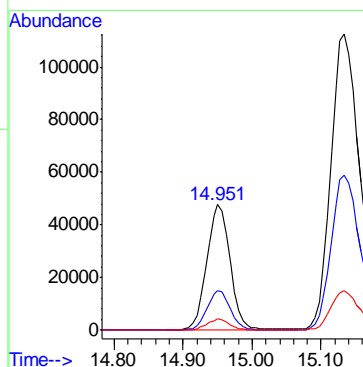
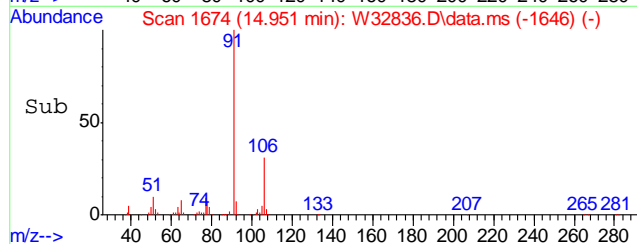
#72
TETRACHLOROETHYLENE
Concen: 0.48 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

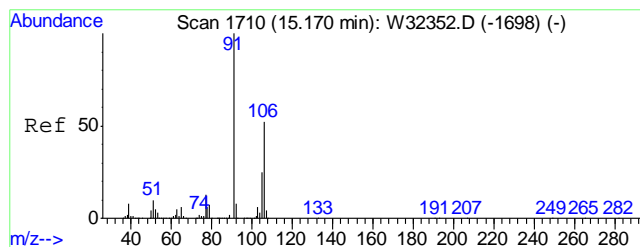
Tgt Ion	Ratio	Lower	Upper
164	100		
129	87.9	66.3	106.3
168	61.3	41.0	81.0
131	86.4	63.5	103.5



#78
ETHYLBENZENE
Concen: 1.51 PPBV
RT: 14.951 min Scan# 1674
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

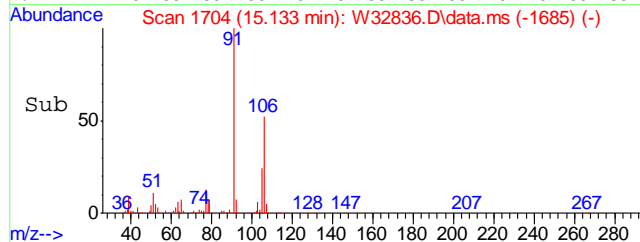
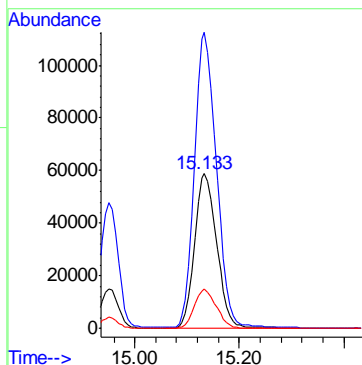
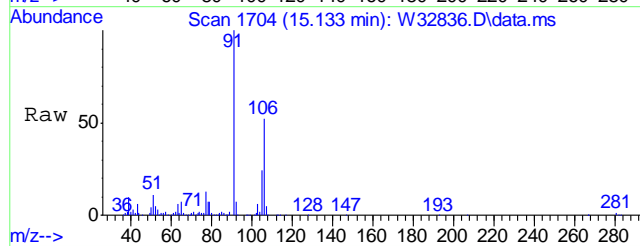
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.0	11.7	51.7
77	8.5	0.0	28.1





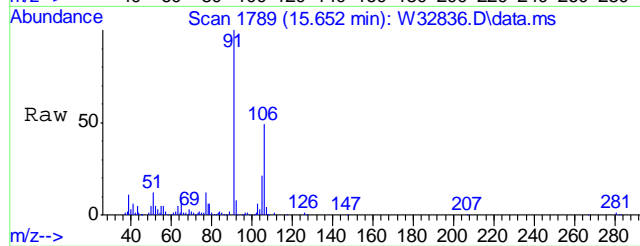
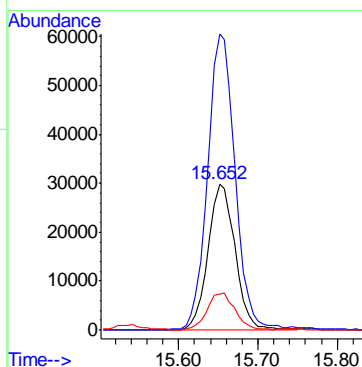
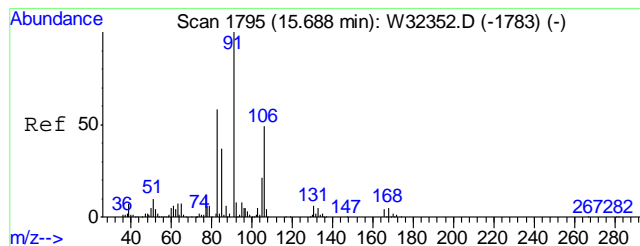
#79
m,p-XYLENE
Concen: 5.98 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

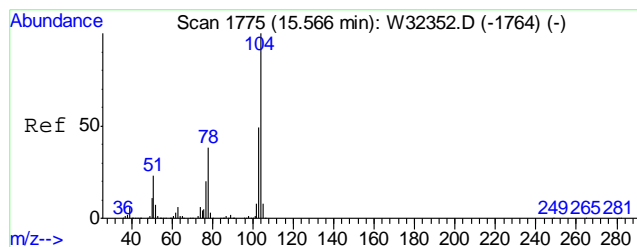
Tgt Ion	Ratio	Lower	Upper
106	100		
91	191.7	152.6	228.8
77	25.3	19.9	29.9



#80
o-XYLENE
Concen: 2.55 PPBV
RT: 15.652 min Scan# 1789
Delta R.T. -0.037 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

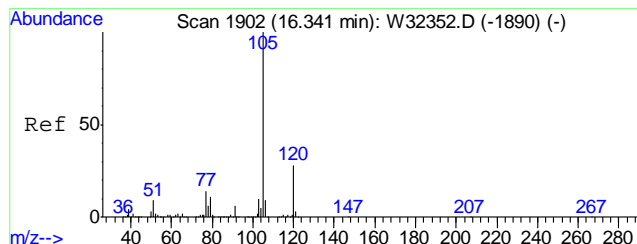
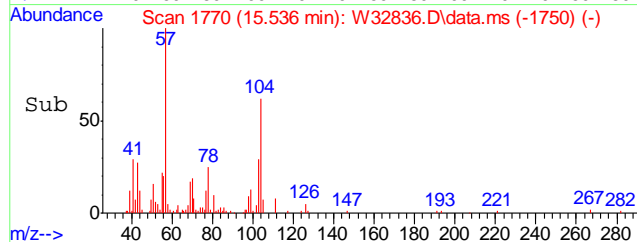
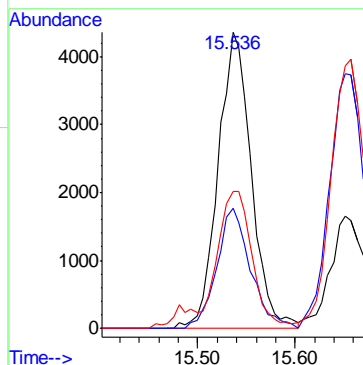
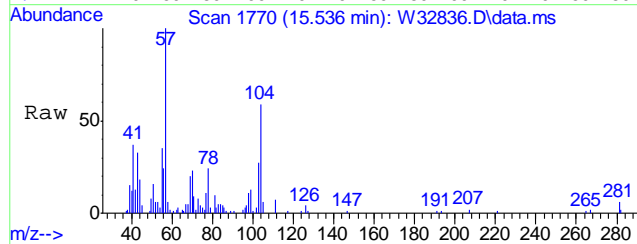
Tgt Ion	Ratio	Lower	Upper
106	100		
91	204.1	182.1	222.1
77	25.4	4.0	44.0





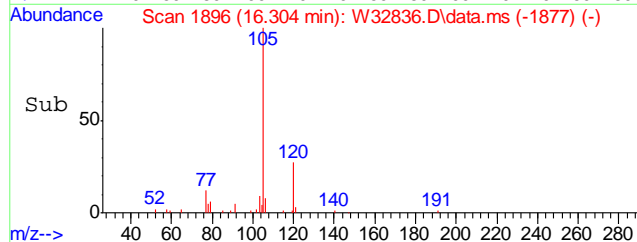
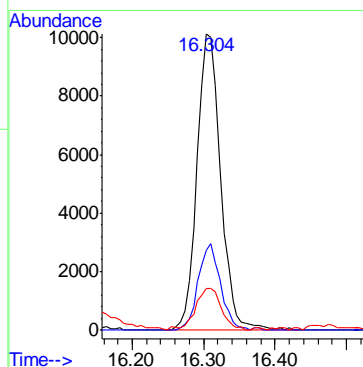
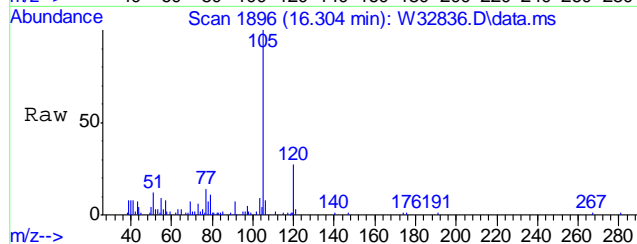
#81
 STYRENE
 Concen: 0.26 PPBV
 RT: 15.536 min Scan# 1770
 Delta R.T. -0.030 min
 Lab File: W32836.D
 Acq: 21 Jul 2011 2:57 pm

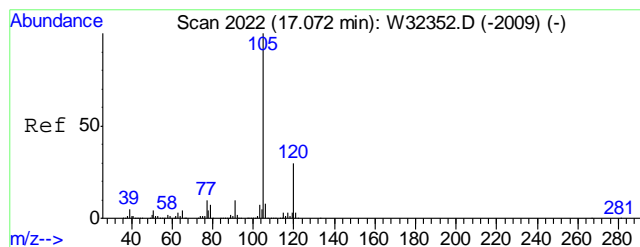
Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.1	18.2	58.2
103	43.9	28.2	68.2



#87
 ISOPROPYLBENZENE
 Concen: 0.29 PPBV
 RT: 16.304 min Scan# 1896
 Delta R.T. -0.037 min
 Lab File: W32836.D
 Acq: 21 Jul 2011 2:57 pm

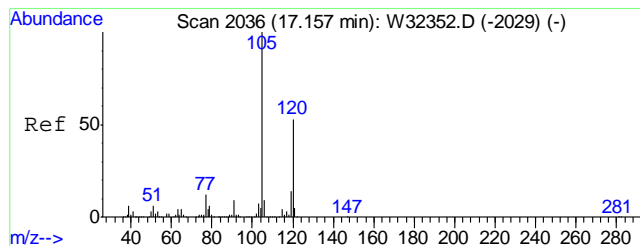
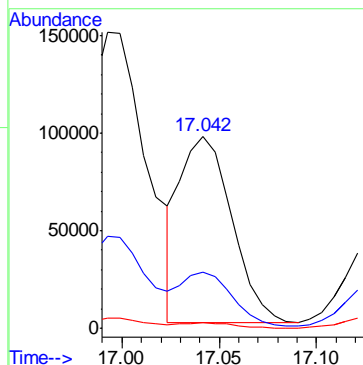
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	6.9	46.9
77	15.3	0.0	33.9





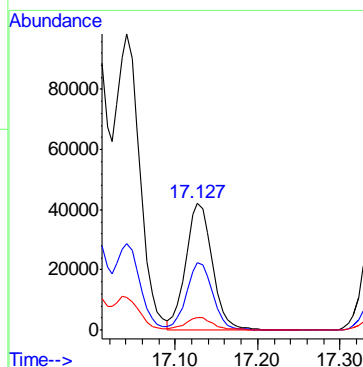
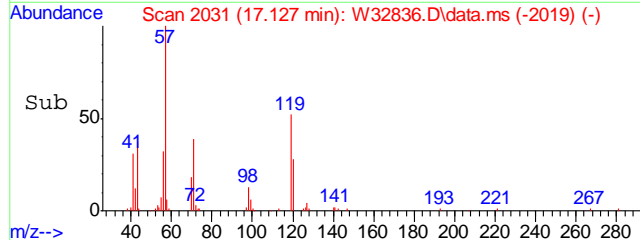
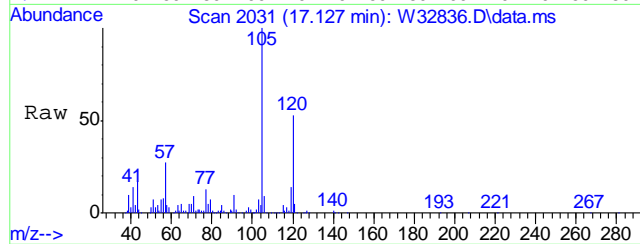
#91
4-ETHYLTOLUENE
Concen: 2.68 PPBV
RT: 17.042 min Scan# 2017
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

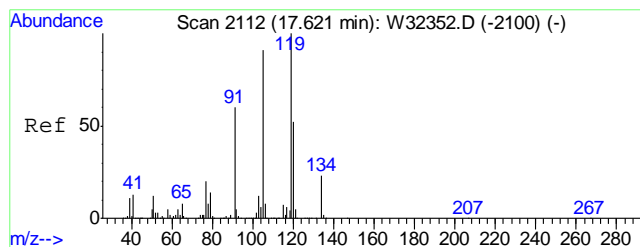
Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.1	9.8	49.8
119	2.8	0.0	22.9



#92
1,3,5-TRIMETHYLBENZENE
Concen: 1.73 PPBV
RT: 17.127 min Scan# 2031
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

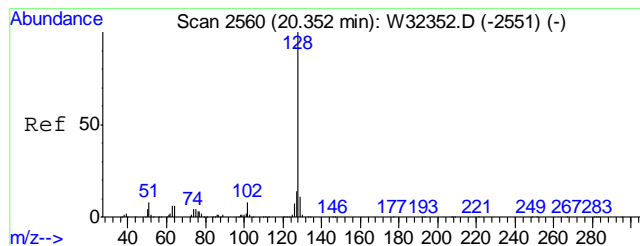
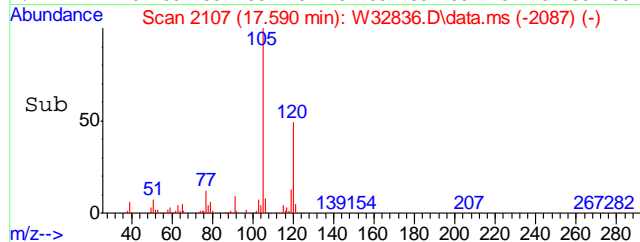
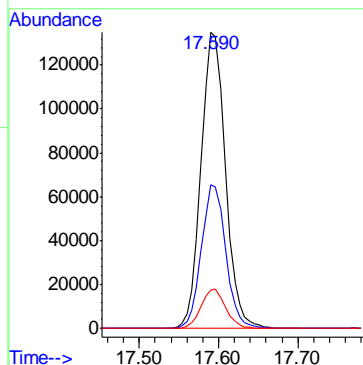
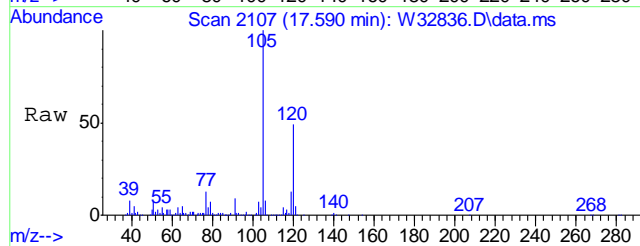
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.4	32.9	72.9
91	9.9	0.0	29.3





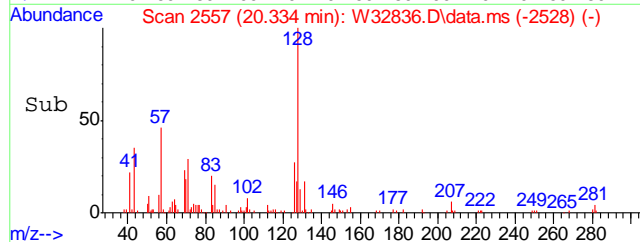
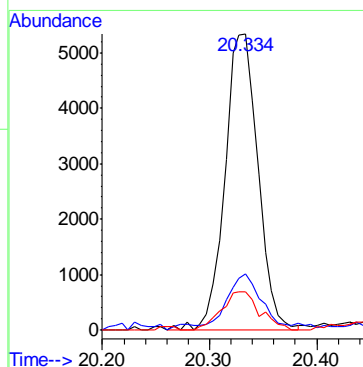
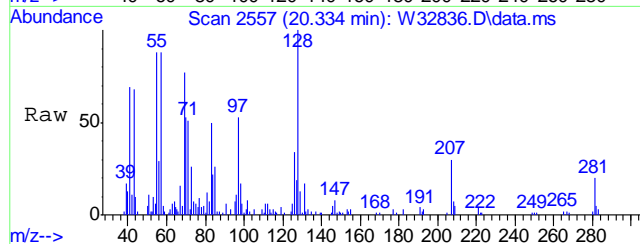
#95
1,2,4-TRIMETHYLBENZENE
Concen: 5.80 PPBV
RT: 17.590 min Scan# 2107
Delta R.T. -0.030 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.7	39.3	79.3
119	13.3	101.1	141.1#



#107
NAPHTHALENE
Concen: 1.03 PPBV
RT: 20.334 min Scan# 2557
Delta R.T. -0.018 min
Lab File: W32836.D
Acq: 21 Jul 2011 2:57 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
127	17.2	0.0	34.3
129	15.1	0.0	30.7



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32803.D Vial: 5
 Acq On : 20 Jul 2011 11:11 am Operator: YOUMINH
 Sample : MB Inst : MSW
 Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 08:11:04 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.59	128	148435	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.27	114	742738	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.51	82	319382	10.00	PPBV	-0.04
106) Chlorobenzene-d5(a)	14.51	82	317832	10.00	PPBV	-0.04

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.16	95	153387	4.44	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	88.80%

Target Compounds

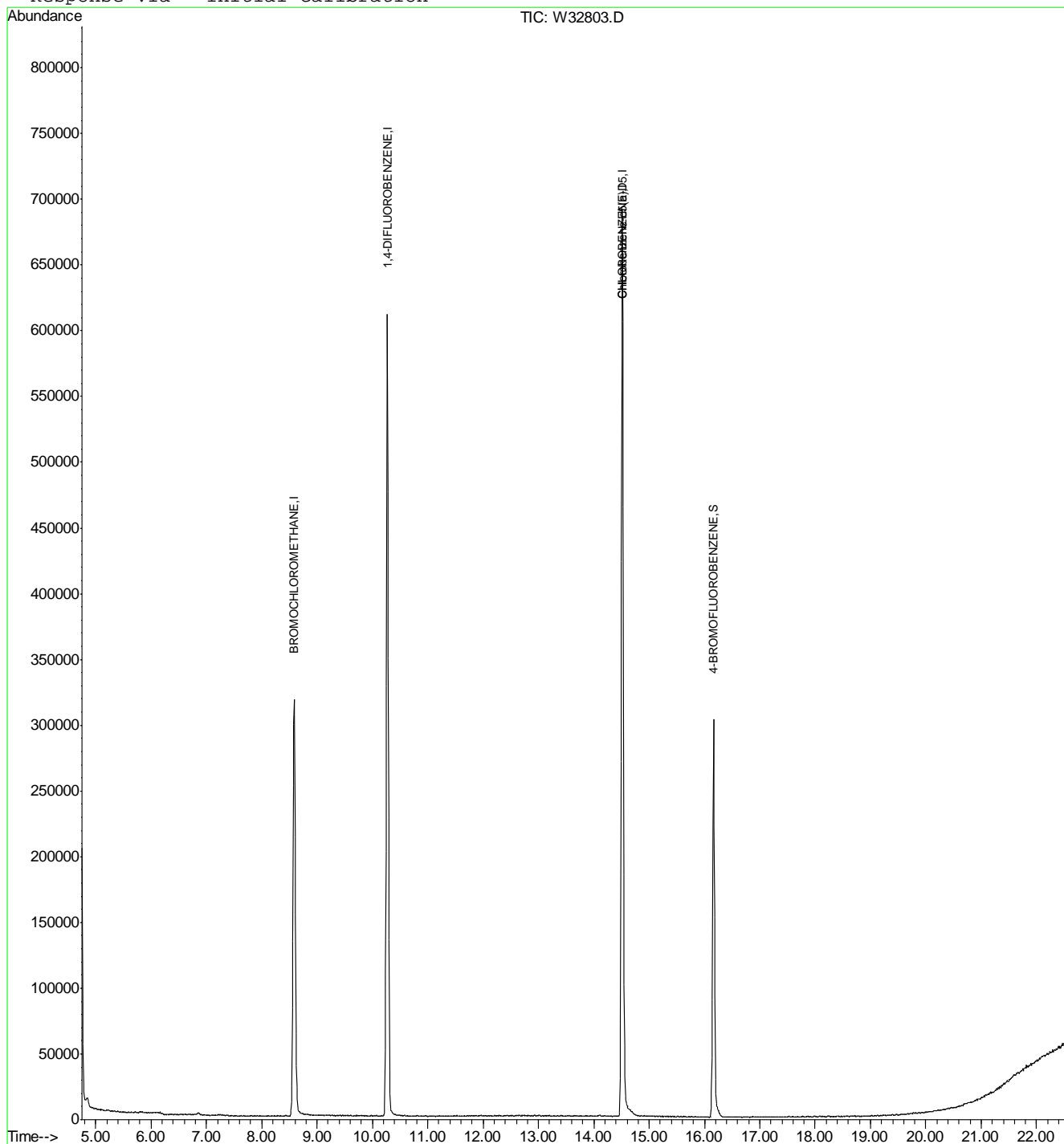
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 W32803.D MW1322.M Wed Aug 17 12:48:59 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32803.D Vial: 5
Acq On : 20 Jul 2011 11:11 am Operator: YOUMINH
Sample : MB Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:05 2011 Quant Results File: MW1322.RES

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32832.D Vial: 5
 Acq On : 21 Jul 2011 12:12 pm Operator: YOUMINH
 Sample : MB Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 08:20:00 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.59	128	163529	10.00	PPBV	-0.03
50) 1,4-DIFLUOROBENZENE	10.27	114	817019	10.00	PPBV	-0.03
69) CHLOROBENZENE-D5	14.52	82	363113	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.52	82	361872	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.16	95	175500	4.47	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	89.40%

Target Compounds

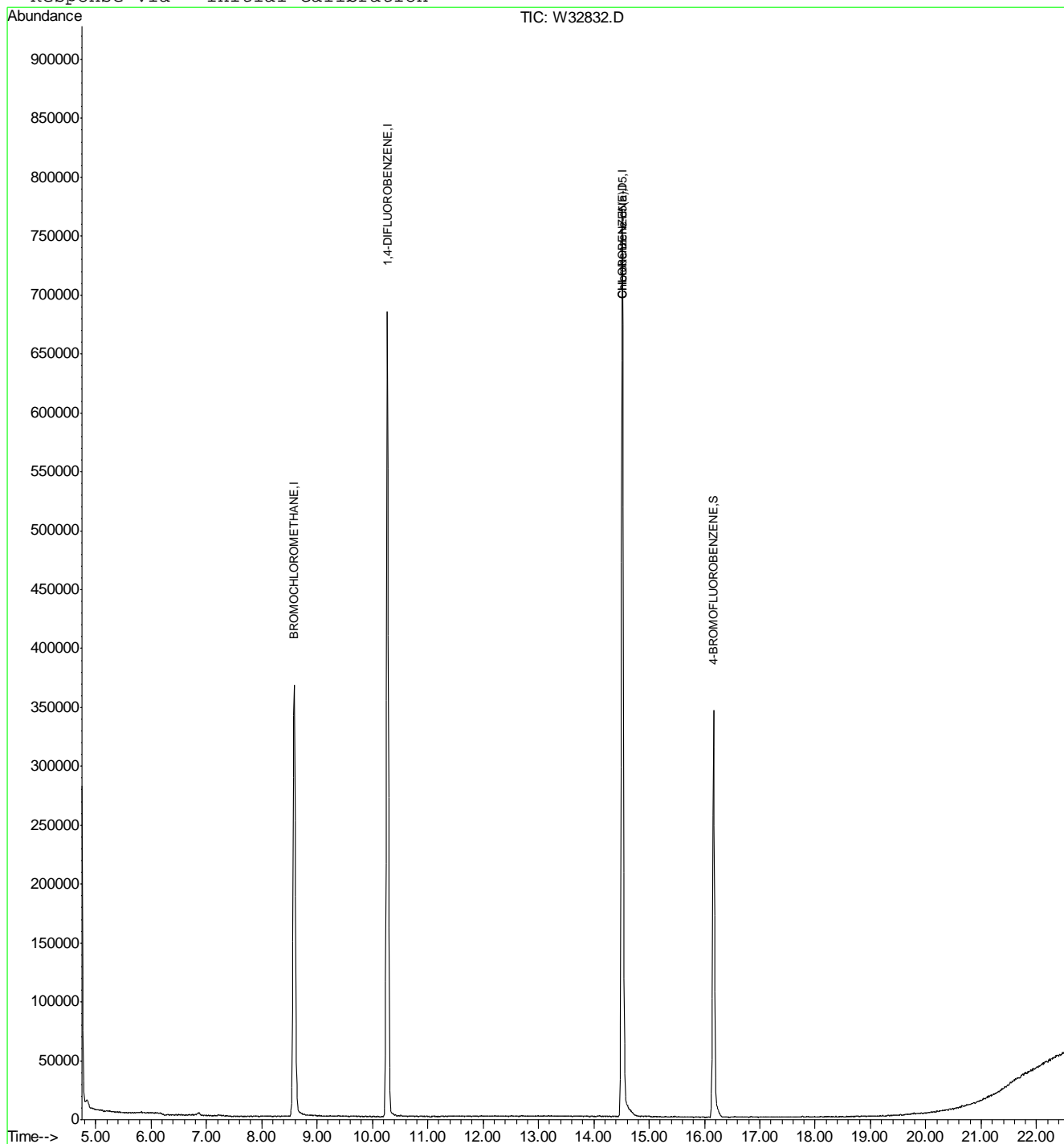
Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 W32832.D MW1322.M Wed Aug 17 12:49:10 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32832.D Vial: 5
Acq On : 21 Jul 2011 12:12 pm Operator: YOUMINH
Sample : MB Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 8:51 2011 Quant Results File: MW1322.RES

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32389.D Vial: 5
Acq On : 23 Jun 2011 12:33 pm Operator: YOUMINH
Sample : MB Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 08:07:34 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.61	128	166902	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.29	114	854854	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.54	82	384904	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.54	82	383411	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.19	95	195007	4.69	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	93.80%

Target Compounds

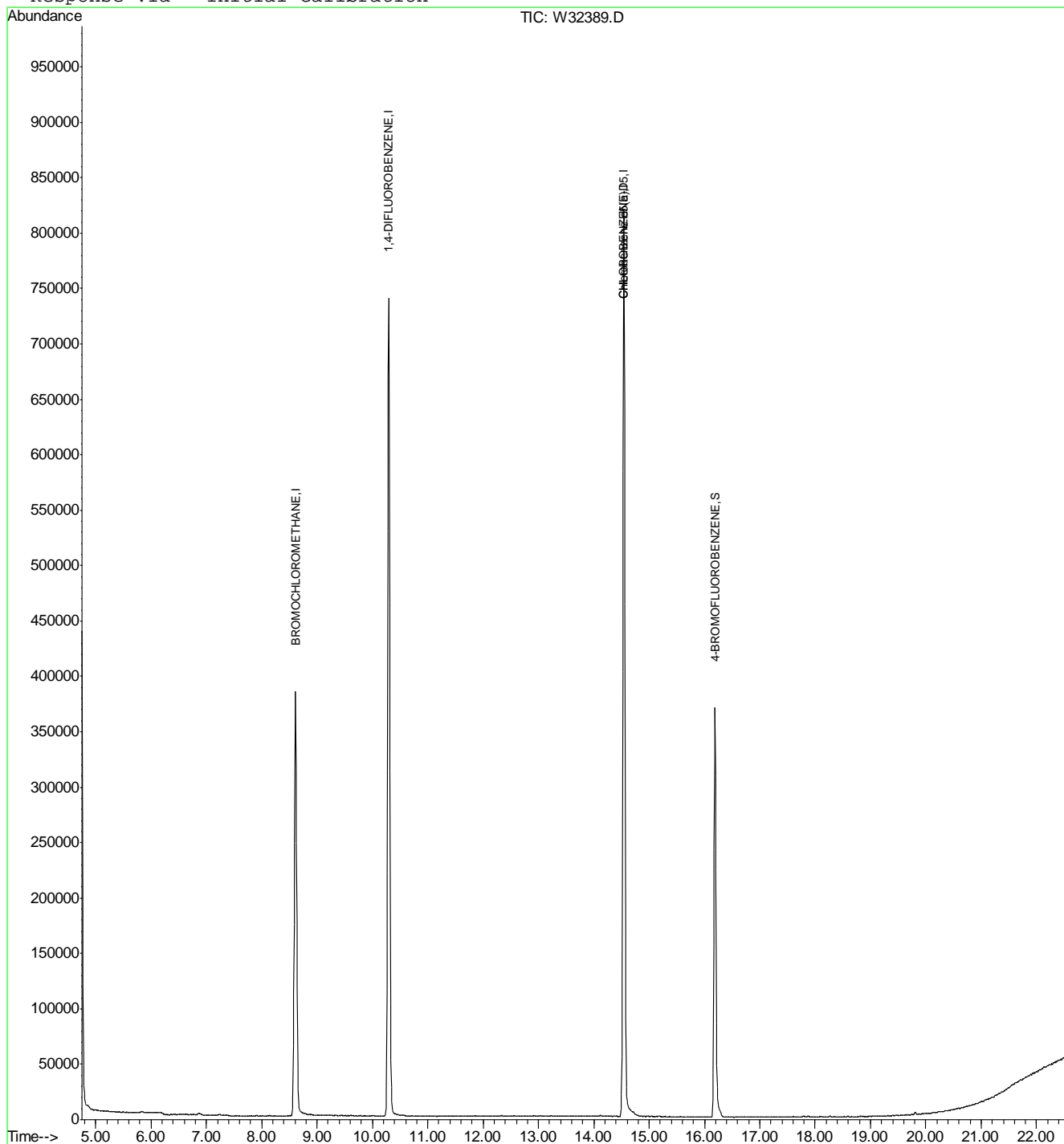
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32389.D MW1322.M Tue Aug 16 08:56:11 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32389.D Vial: 5
Acq On : 23 Jun 2011 12:33 pm Operator: YOU MINH
Sample : MB Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: MW1322.RES

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



W32389.D MW1322.M

Tue Aug 16 08:56:11 2011

MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23021.D Vial: 5
Acq On : 24 Jun 2011 12:41 pm Operator: yunxiac
Sample : MB Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 08:49:42 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	102357	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.01	114	494500	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.30	82	233826	10.00	PPBV	-0.02
105) CHLOROBENZENE-D5 (a)	13.30	82	233826	10.00	PPBV	-0.02

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.96	95	117738	4.77	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	95.40%

Target Compounds

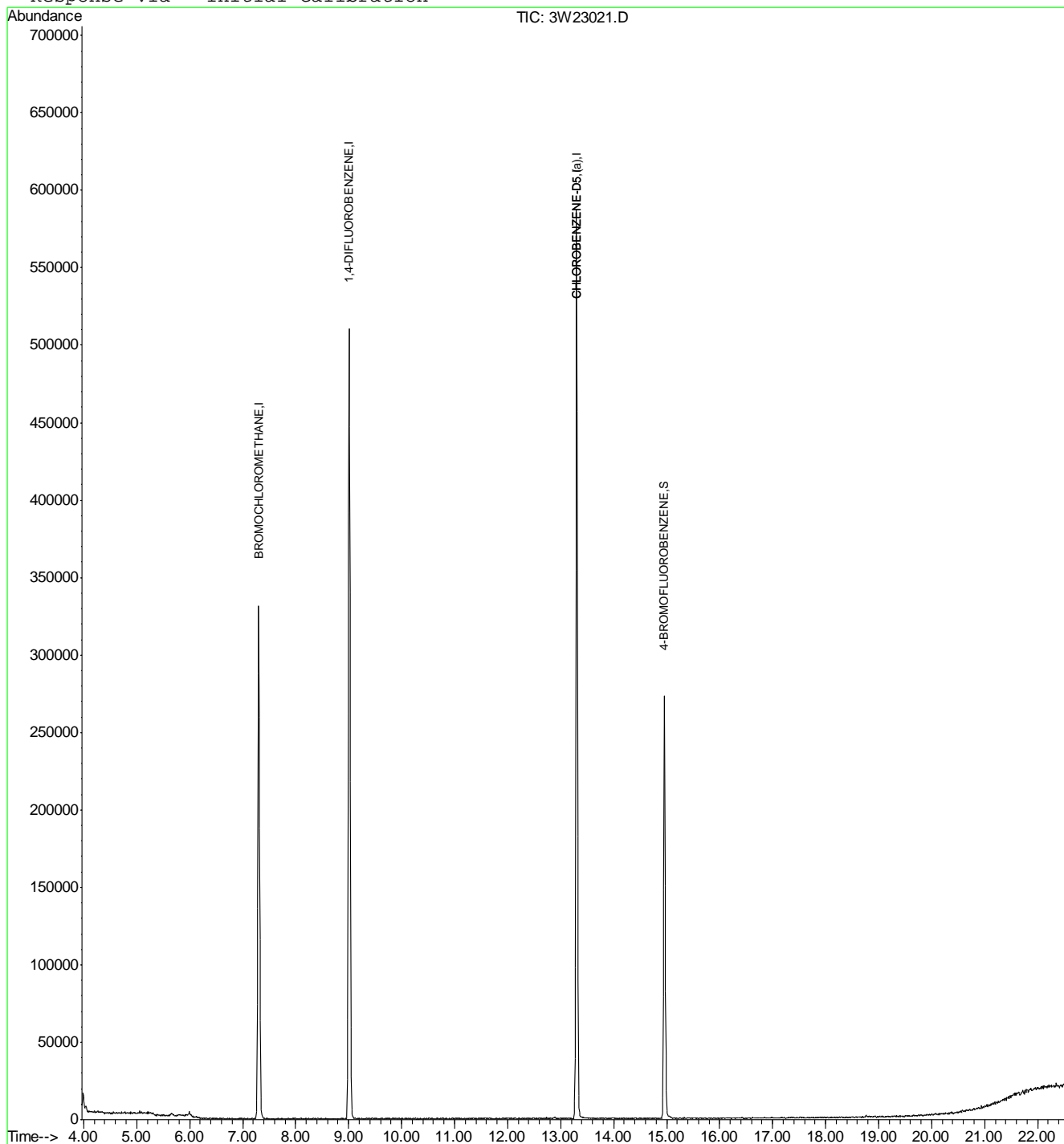
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W23021.D M3W886.M Tue Aug 16 09:03:29 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23021.D Vial: 5
Acq On : 24 Jun 2011 12:41 pm Operator: yunxiac
Sample : MB Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 1:38 2011 Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32801.D Vial: 3
 Acq On : 20 Jul 2011 8:52 am Operator: YOUMINH
 Sample : BS Inst : MSW
 Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 08:10:57 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.59	128	155968	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.27	114	781273	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.52	82	372869	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.52	82	371354	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.16 95 187486 4.65 PPBV -0.03
 Spiked Amount 5.000 Range 65 - 128 Recovery = 93.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.88	67	37143	8.16	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.96	85	396244	8.65	PPBV	100
6) PROPYLENE	4.90	41	161249	8.27	PPBV	97
7) FREON 114	5.17	85	444368	8.28	PPBV	95
8) CHLOROMETHANE	5.10	52	58855	9.92	PPBV	92
9) VINYL CHLORIDE	5.28	62	210660	10.26	PPBV	99
10) 1,3-BUTADIENE	5.37	54	164599	9.57	PPBV	97
11) n-BUTANE	5.42	43	335482	9.86	PPBV	99
12) BROMOMETHANE	5.59	94	172142	9.79	PPBV	99
13) CHLOROETHANE	5.71	64	117945	10.01	PPBV	94
15) ACROLEIN	6.06	56	78086	9.27	PPBV	99
16) FREON 123	6.07	83	445801	9.96	PPBV #	100
17) FREON 123A	6.11	117	246201	9.19	PPBV	93
18) TRICHLOROFLUOROMETHANE	6.29	101	401651	9.18	PPBV	99
19) ISOPROPYL ALCOHOL	6.34	45	374355	9.85	PPBV	98
20) ACETONE	6.16	58	90900	9.11	PPBV	91
22) PENTANE	6.54	57	62980	9.79	PPBV	97
23) TVHC as EQUIV PENTANE	6.54	TIC	1118899m	9.60	PPBV	
24) IODOMETHANE	6.73	142	462401	9.95	PPBV	98
25) 1,1-DICHLOROETHYLENE	6.77	96	187836	9.55	PPBV	97
26) CARBON DISULFIDE	7.13	76	532857	11.21	PPBV	99
27) ETHANOL	5.81	45	86378	8.65	PPBV	98
29) BROMOETHENE	5.98	106	179111	9.80	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	179313	9.50	PPBV	96
31) 3-CHLOROPROPENE	6.95	76	98399	10.40	PPBV	96
32) FREON 113	7.05	151	268217	8.30	PPBV	94
33) TRANS-1,2-DICHLOROETHYLENE	7.59	96	183314	9.93	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.80	59	454549	10.33	PPBV	99
35) METHYL TERTIARY BUTYL ETHER	7.80	73	459520	8.73	PPBV	98
36) TETRAHYDROFURAN	9.07	72	88862	9.74	PPBV	95
37) HEXANE	8.60	57	359876	10.59	PPBV	94
38) VINYL ACETATE	7.85	86	46962	9.20	PPBV #	89
39) 1,1-DICHLOROETHANE	7.76	63	351638	9.84	PPBV	100
40) METHYL ETHYL KETONE	8.08	72	88762	9.49	PPBV	98
41) cis-1,2-DICHLOROETHYLENE	8.45	96	194267	9.28	PPBV	100
42) DI-ISOPROPYL ETHER	8.59	45	686079	9.77	PPBV	94
43) ETHYL ACETATE	8.61	61	58836	9.72	PPBV #	95
45) CHLOROFORM	8.70	83	348936	9.58	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.36	57	424286	10.54	PPBV	98
47) 1,1,1-TRICHLOROETHANE	9.56	97	327780	9.04	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32801.D MW1322.M Wed Aug 17 12:48:51 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32801.D Vial: 3
 Acq On : 20 Jul 2011 8:52 am Operator: YOUMINH
 Sample : BS Inst : MSW
 Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 08:10:57 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) CARBON TETRACHLORIDE	10.11	117	327945	8.82	PPBV	99
49) 1,2-DICHLOROETHANE	9.34	62	201471	9.57	PPBV	100
51) BENZENE	9.98	78	605372	10.16	PPBV	98
52) CYCLOHEXANE	10.22	84	288062	9.58	PPBV	96
53) 2,3-DIMETHYLPENTANE	10.41	71	153564	10.34	PPBV	97
54) TRICHLOROETHYLENE	10.94	95	234226	10.11	PPBV	96
56) 1,2-DICHLOROPROPANE	10.72	63	218369	9.73	PPBV	97
58) BROMODICHLOROMETHANE	10.91	83	366936	9.97	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	1137630	11.10	PPBV	99
60) 1,4-DIOXANE	10.96	88	121542	10.04	PPBV	98
61) METHYL METHACRYLATE	11.10	69	192255	9.45	PPBV	97
62) HEPTANE	11.18	43	411994	10.75	PPBV	96
63) TVHC as EQUIV HEPTANE	11.18	TIC	1706411m	10.23	PPBV	
64) METHYL ISOBUTYL KETONE	11.78	43	447983	10.88	PPBV	97
65) cis-1,3-DICHLOROPROPENE	11.75	75	293973	9.84	PPBV	98
66) TOLUENE	12.71	92	385941	9.65	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.26	75	267941	9.67	PPBV	99
68) 1,1,2-TRICHLOROETHANE	12.44	83	175388	10.11	PPBV	98
71) 2-HEXANONE	12.97	43	396861	10.77	PPBV	97
72) TETRACHLOROETHYLENE	13.85	164	239668	9.66	PPBV	98
73) DIBROMOCHLOROMETHANE	13.15	129	327052	9.78	PPBV	100
74) 1,2-DIBROMOETHANE	13.39	107	277800	9.99	PPBV	100
75) OCTANE	13.68	43	525343	11.12	PPBV	95
76) 1,1,1,2-TETRACHLOROETHANE	14.54	131	237325	9.61	PPBV #	99
77) CHLOROBENZENE	14.57	112	448490	9.76	PPBV	99
78) ETHYLBENZENE	14.95	91	749642	10.12	PPBV	99
79) m,p-XYLENE	15.15	106	580110	20.18	PPBV	97
80) o-XYLENE	15.66	106	275125	9.91	PPBV	99
81) STYRENE	15.54	104	405652	10.30	PPBV	98
82) 1,2,3-TRICHLOROPROPANE	15.80	75	261266	9.63	PPBV	98
83) NONANE	15.88	43	460579	11.21	PPBV	97
84) BROMOFORM	15.24	173	280215	9.77	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.66	83	353313	10.85	PPBV	99
87) ISOPROPYLBENZENE	16.31	105	762647	9.76	PPBV	100
89) 2-CHLOROTOLUENE	16.85	126	169898	9.74	PPBV #	100
90) n-PROPYLBENZENE	16.88	120	191923	9.96	PPBV	92
91) 4-ETHYLTOLUENE	17.04	105	655467	10.09	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.13	105	513497	9.56	PPBV	100
94) TERT-BUTYLBENZENE	17.59	134	132343	9.33	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.60	105	487189	9.89	PPBV	99
96) m-DICHLOROBENZENE	17.77	146	296645	10.17	PPBV	99
97) BENZYL CHLORIDE	17.75	91	366138	10.54	PPBV	99
98) p-DICHLOROBENZENE	17.85	146	290097	10.09	PPBV	99
99) SEC-BUTYLBENZENE	17.90	134	149160	9.75	PPBV	94
100) p-ISOPROPYLTOLUENE	18.08	134	148416	10.21	PPBV	98
101) o-DICHLOROBENZENE	18.24	146	256781	9.78	PPBV	99
102) n-BUTYLBENZENE	18.57	134	113966	9.54	PPBV	94
104) HEXACHLOROBUTADIENE	20.72	225	88217	9.60	PPBV	99
105) 1,2,4-TRICHLOROBENZENE	20.21	180	67421	10.72	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32801.D MW1322.M Wed Aug 17 12:48:51 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32801.D Vial: 3
Acq On : 20 Jul 2011 8:52 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 08:10:57 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

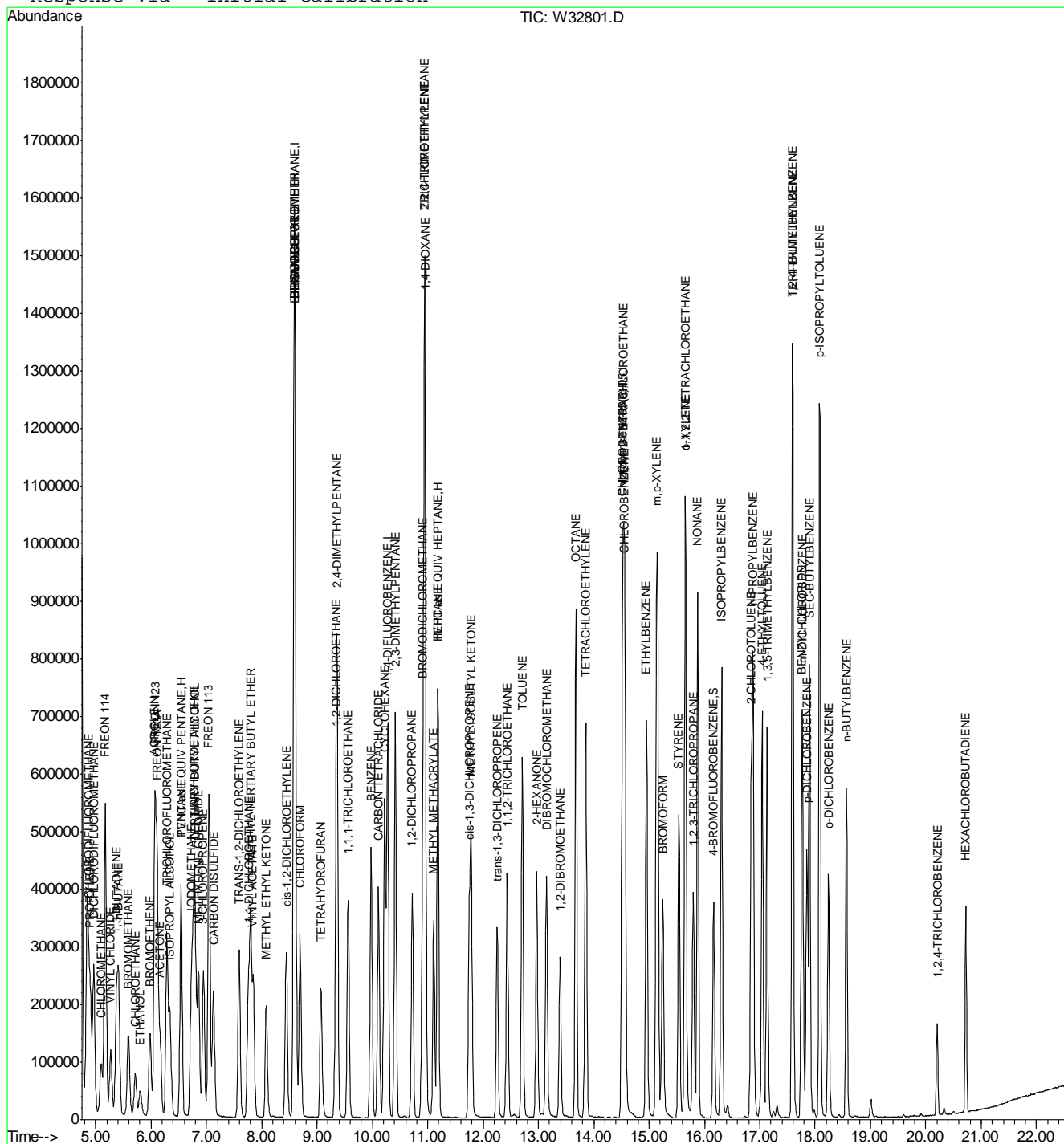
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32801.D MW1322.M Wed Aug 17 12:48:51 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32801.D Vial: 3
Acq On : 20 Jul 2011 8:52 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:04 2011 Quant Results File: MW1322.RES

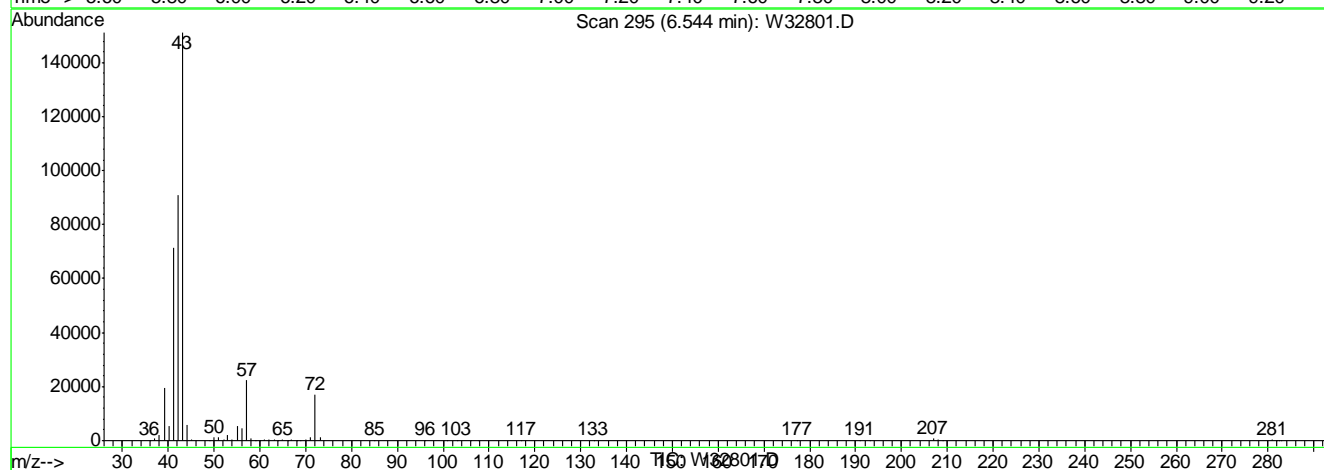
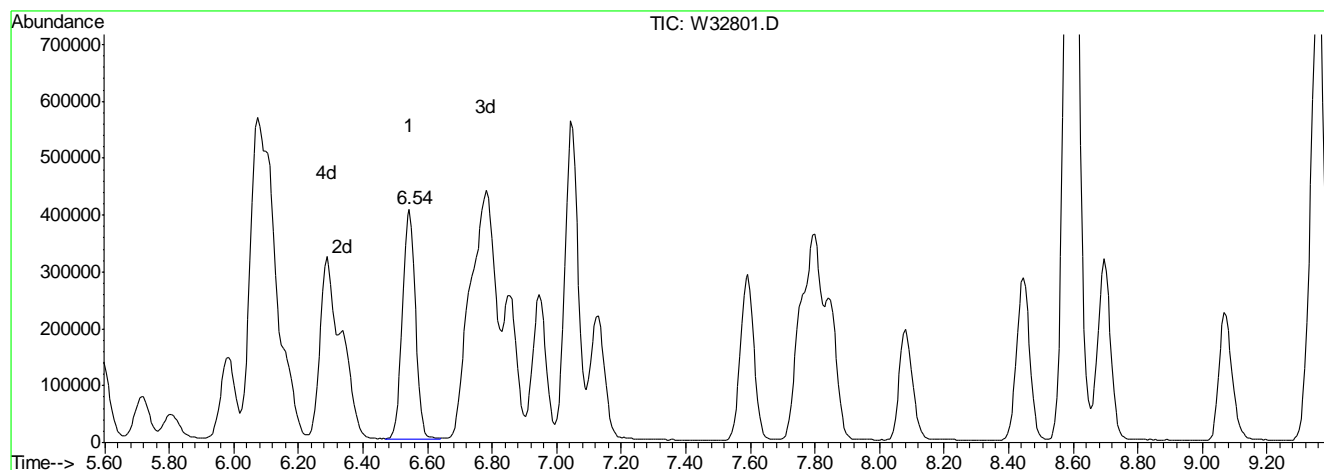
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32801.D Vial: 3
Acq On : 20 Jul 2011 8:52 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:04 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.54min 9.60PPBV m

response 1118899

Signal	Exp%	Act%
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TIC	100	100
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0.00	1.40	0.12#
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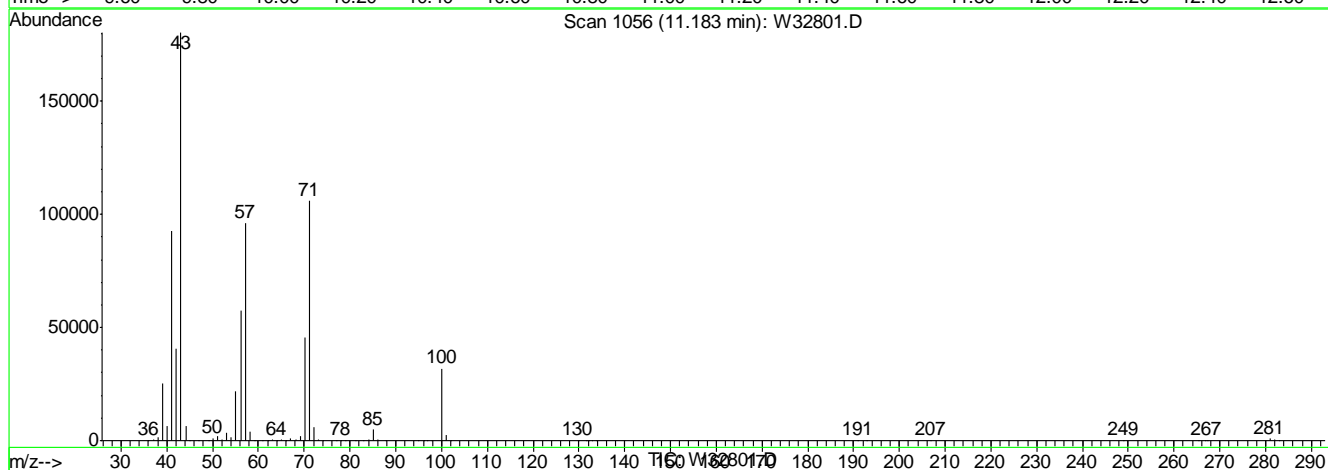
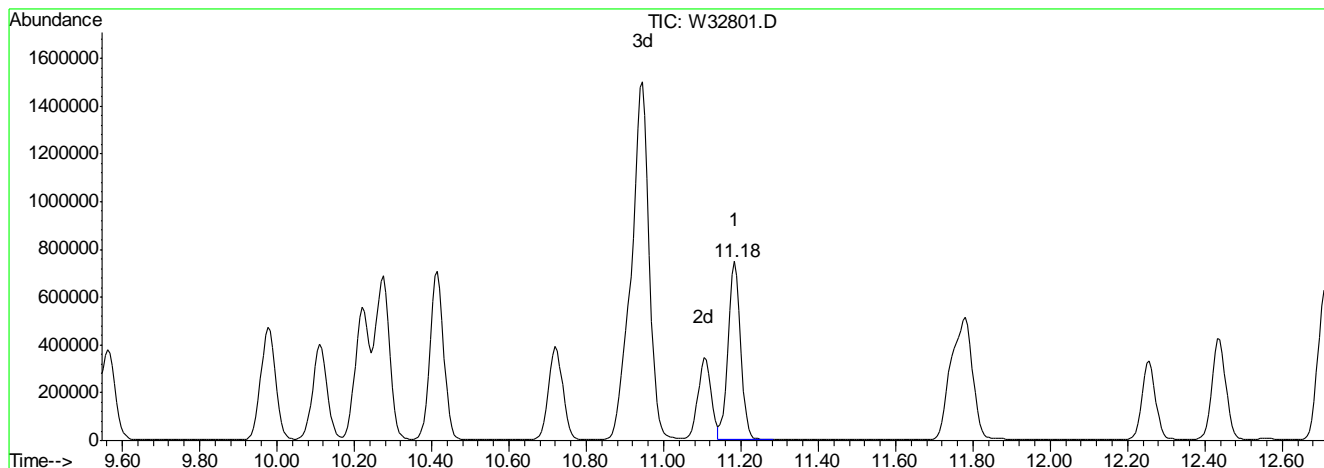
0.00	1.00	0.11#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32801.D Vial: 3
Acq On : 20 Jul 2011 8:52 am Operator: YOU MINH
Sample : BS Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:04 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.18min 10.23PPBV m

response 1706411

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	0.08#
------	------	-------

0.00	0.70	0.07#
------	------	-------

0.00	0.00	0.00
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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32802.D Vial: 3
 Acq On : 20 Jul 2011 9:32 am Operator: YOUMINH
 Sample : BSD Inst : MSW
 Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 08:11:00 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.59	128	153068	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.27	114	758678	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.52	82	350941	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.52	82	350267	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.16 95 178416 4.70 PPBV -0.03
 Spiked Amount 5.000 Range 65 - 128 Recovery = 94.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.88	67	35759	8.01	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.96	85	383893	8.54	PPBV	100
6) PROPYLENE	4.91	41	152621	7.98	PPBV	98
7) FREON 114	5.17	85	427315	8.11	PPBV	94
8) CHLOROMETHANE	5.10	52	55712	9.57	PPBV	92
9) VINYL CHLORIDE	5.27	62	201965	10.02	PPBV	99
10) 1,3-BUTADIENE	5.37	54	156164	9.25	PPBV	97
11) n-BUTANE	5.42	43	314246	9.41	PPBV #	99
12) BROMOMETHANE	5.59	94	166300	9.63	PPBV	99
13) CHLOROETHANE	5.71	64	112412	9.72	PPBV	95
15) ACROLEIN	6.06	56	78333	9.48	PPBV	99
16) FREON 123	6.07	83	435835	9.92	PPBV #	99
17) FREON 123A	6.11	117	242478	9.23	PPBV	95
18) TRICHLOROFLUOROMETHANE	6.29	101	389453	9.07	PPBV	100
19) ISOPROPYL ALCOHOL	6.34	45	360168	9.66	PPBV	98
20) ACETONE	6.16	58	91021	9.29	PPBV	91
22) PENTANE	6.54	57	59965	9.50	PPBV	97
23) TVHC as EQUIV PENTANE	6.54	TIC	1059383m	9.26	PPBV	
24) IODOMETHANE	6.73	142	458900	10.06	PPBV	98
25) 1,1-DICHLOROETHYLENE	6.77	96	181938	9.43	PPBV	98
26) CARBON DISULFIDE	7.13	76	508577	10.90	PPBV	99
27) ETHANOL	5.81	45	85322	8.71	PPBV	98
29) BROMOETHENE	5.98	106	175632	9.79	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	177199	9.57	PPBV	97
31) 3-CHLOROPROPENE	6.95	76	95987	10.34	PPBV	97
32) FREON 113	7.04	151	266940	8.42	PPBV	95
33) TRANS-1,2-DICHLOROETHYLENE	7.59	96	178150	9.83	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.79	59	440429	10.20	PPBV	99
35) METHYL TERTIARY BUTYL ETHER	7.80	73	467024	9.05	PPBV	99
36) TETRAHYDROFURAN	9.07	72	90288	10.09	PPBV	100
37) HEXANE	8.60	57	344114	10.32	PPBV	94
38) VINYL ACETATE	7.85	86	47616	9.51	PPBV	97
39) 1,1-DICHLOROETHANE	7.76	63	332107	9.47	PPBV	100
40) METHYL ETHYL KETONE	8.08	72	90744	9.89	PPBV #	91
41) cis-1,2-DICHLOROETHYLENE	8.45	96	189622	9.23	PPBV	97
42) DI-ISOPROPYL ETHER	8.59	45	674059	9.78	PPBV	94
43) ETHYL ACETATE	8.61	61	58847	9.91	PPBV	98
45) CHLOROFORM	8.70	83	336533	9.41	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.36	57	399988	10.13	PPBV	99
47) 1,1,1-TRICHLOROETHANE	9.56	97	315740	8.87	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32802.D MW1322.M Wed Aug 17 12:48:55 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32802.D Vial: 3
 Acq On : 20 Jul 2011 9:32 am Operator: YOUMINH
 Sample : BSD Inst : MSW
 Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 08:11:00 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) CARBON TETRACHLORIDE	10.11	117	317820	8.71	PPBV	100
49) 1,2-DICHLOROETHANE	9.34	62	194688	9.42	PPBV	99
51) BENZENE	9.98	78	588695	10.17	PPBV	98
52) CYCLOHEXANE	10.22	84	279756	9.58	PPBV	99
53) 2,3-DIMETHYLPENTANE	10.41	71	147158	10.20	PPBV	99
54) TRICHLOROETHYLENE	10.94	95	230345	10.24	PPBV	98
56) 1,2-DICHLOROPROPANE	10.72	63	214046	9.82	PPBV	97
58) BROMODICHLOROMETHANE	10.91	83	357239	10.00	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	1083733	10.89	PPBV	99
60) 1,4-DIOXANE	10.96	88	122221	10.40	PPBV #	82
61) METHYL METHACRYLATE	11.10	69	194049	9.82	PPBV	99
62) HEPTANE	11.18	43	389881	10.47	PPBV	97
63) TVHC as EQUIV HEPTANE	11.18	TIC	1624256m	10.03	PPBV	
64) METHYL ISOBUTYL KETONE	11.78	43	430055	10.76	PPBV	98
65) cis-1,3-DICHLOROPROPENE	11.75	75	296169	10.21	PPBV	97
66) TOLUENE	12.71	92	391902	10.09	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.26	75	266454	9.90	PPBV	98
68) 1,1,2-TRICHLOROETHANE	12.43	83	174999	10.39	PPBV	98
71) 2-HEXANONE	12.97	43	377651	10.88	PPBV	98
72) TETRACHLOROETHYLENE	13.85	164	241567	10.34	PPBV	98
73) DIBROMOCHLOROMETHANE	13.15	129	328874	10.45	PPBV	100
74) 1,2-DIBROMOETHANE	13.39	107	285024	10.89	PPBV	100
75) OCTANE	13.68	43	498424	11.21	PPBV	96
76) 1,1,1,2-TETRACHLOROETHANE	14.54	131	240406	10.35	PPBV #	100
77) CHLOROBENZENE	14.57	112	457962	10.58	PPBV	100
78) ETHYLBENZENE	14.95	91	755666	10.84	PPBV	100
79) m,p-XYLENE	15.15	106	590167	21.81	PPBV	98
80) o-XYLENE	15.66	106	282375	10.81	PPBV	98
81) STYRENE	15.54	104	414065	11.17	PPBV	98
82) 1,2,3-TRICHLOROPROPANE	15.80	75	266928	10.46	PPBV	98
83) NONANE	15.88	43	442318	11.44	PPBV	99
84) BROMOFORM	15.25	173	290642	10.77	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.66	83	359683	11.74	PPBV	99
87) ISOPROPYLBENZENE	16.31	105	778822	10.59	PPBV	100
89) 2-CHLOROTOLUENE	16.85	126	175160	10.67	PPBV #	97
90) n-PROPYLBENZENE	16.88	120	199110	10.98	PPBV	97
91) 4-ETHYLTOLUENE	17.04	105	676444	11.06	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.13	105	533453	10.55	PPBV	99
94) TERT-BUTYLBENZENE	17.59	134	138120	10.35	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.60	105	506583	10.93	PPBV	99
96) m-DICHLOROBENZENE	17.77	146	314521	11.46	PPBV	98
97) BENZYL CHLORIDE	17.75	91	376317	11.51	PPBV	100
98) p-DICHLOROBENZENE	17.85	146	300356	11.10	PPBV	99
99) SEC-BUTYLBENZENE	17.90	134	157041	10.90	PPBV	96
100) p-ISOPROPYLTOLUENE	18.08	134	156797	11.46	PPBV	99
101) o-DICHLOROBENZENE	18.24	146	268896	10.89	PPBV	98
102) n-BUTYLBENZENE	18.57	134	118507	10.54	PPBV	98
104) HEXACHLOROBUTADIENE	20.72	225	96576	11.17	PPBV	98
105) 1,2,4-TRICHLOROBENZENE	20.21	180	73888	12.49	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32802.D MW1322.M Wed Aug 17 12:48:55 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32802.D Vial: 3
Acq On : 20 Jul 2011 9:32 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 08:11:00 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

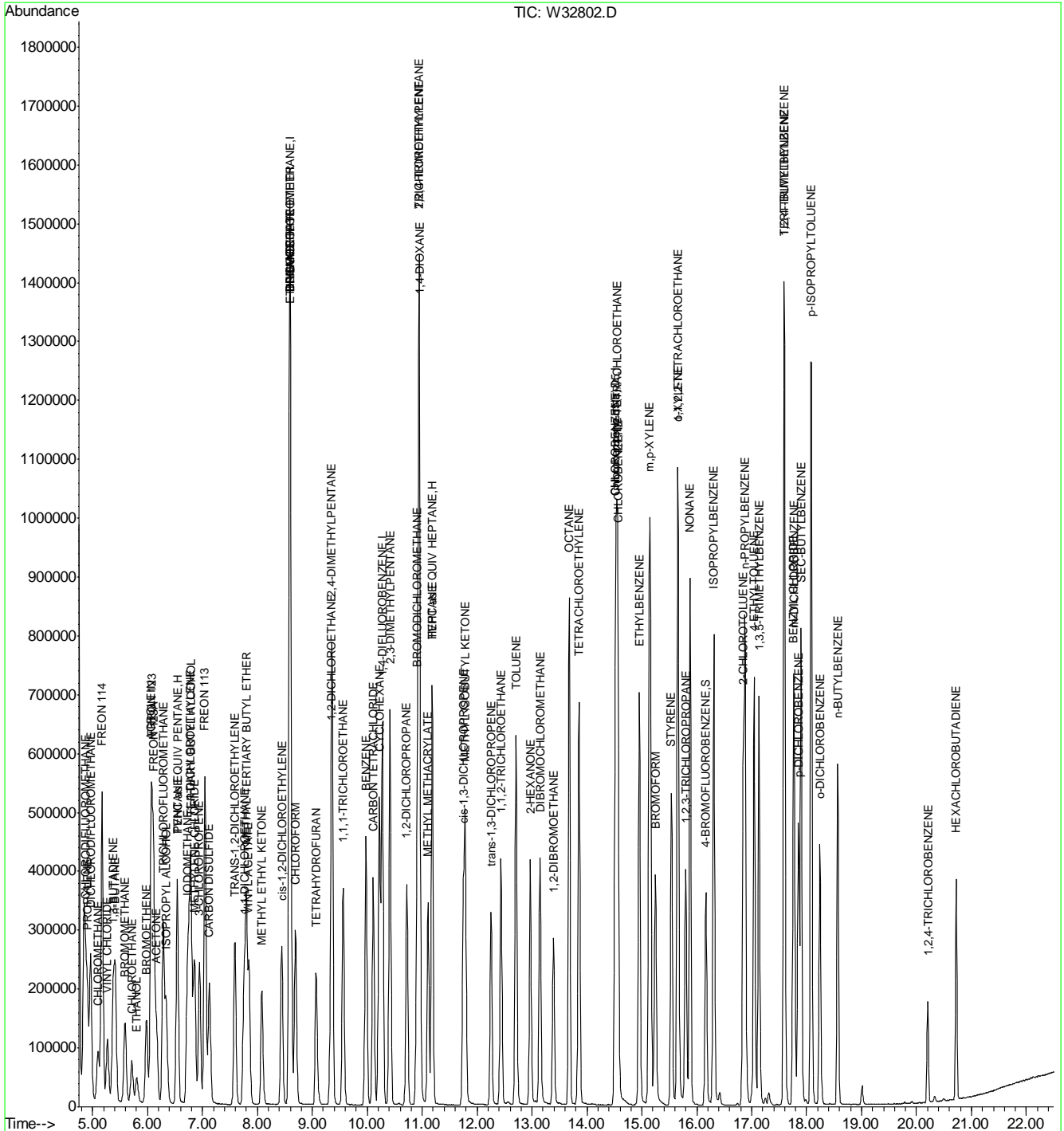
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32802.D MW1322.M Wed Aug 17 12:48:55 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32802.D Vial: 3
Acq On : 20 Jul 2011 9:32 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:05 2011 Quant Results File: MW1322.RES

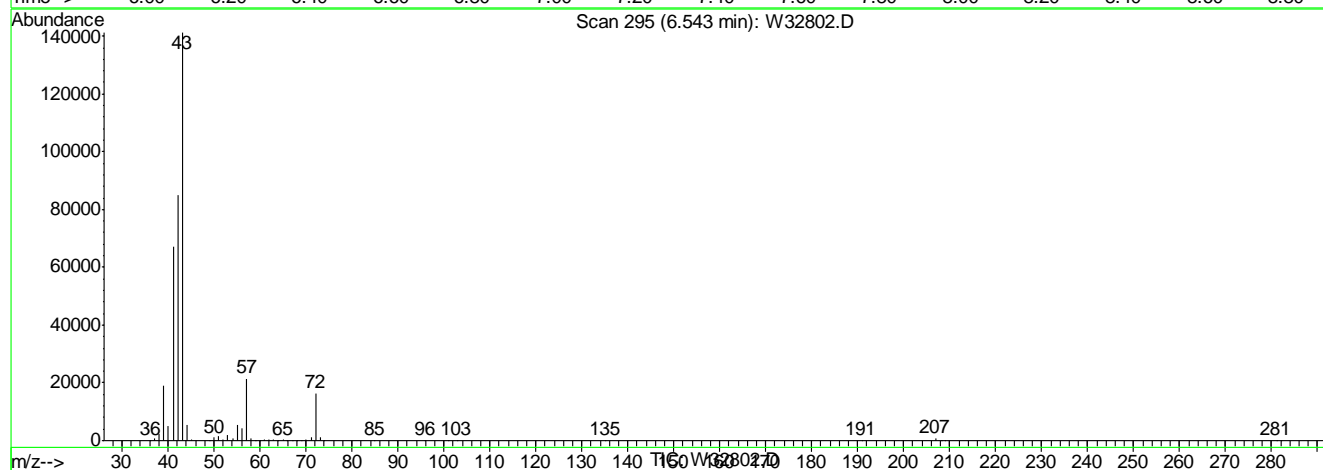
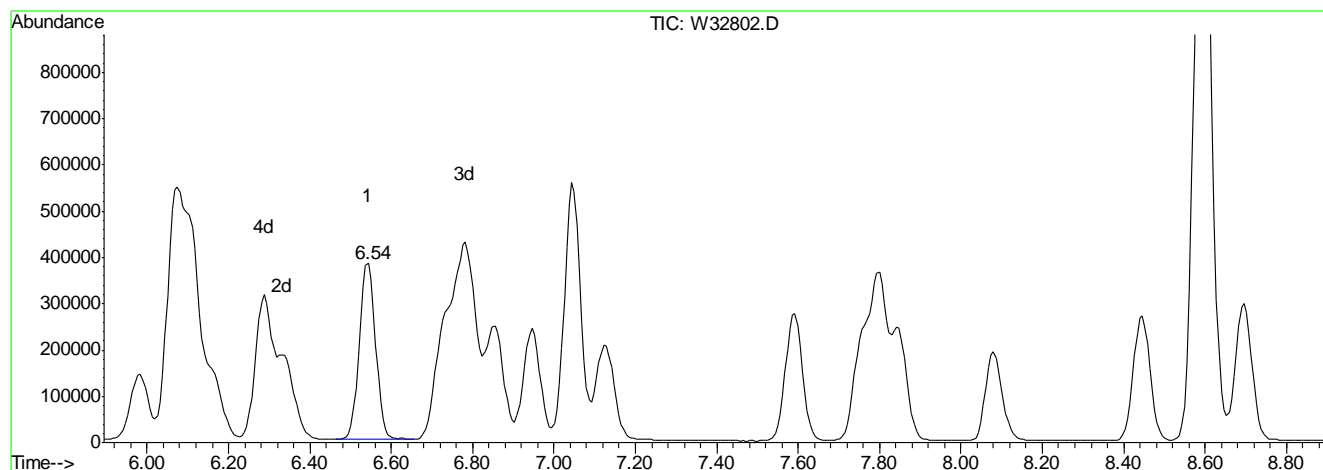
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32802.D Vial: 3
Acq On : 20 Jul 2011 9:32 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:05 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.54min 9.26PPBV m

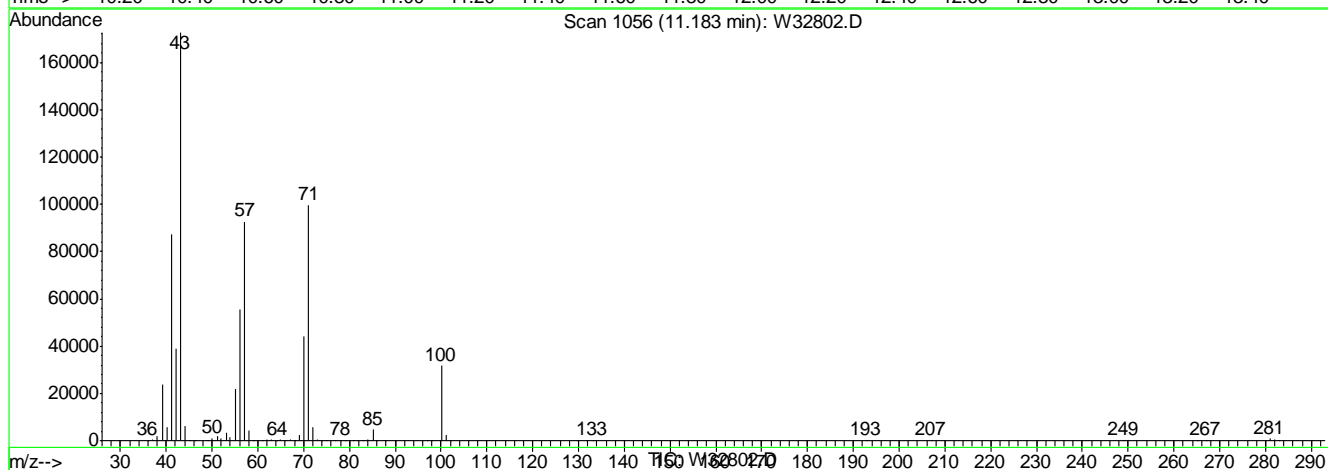
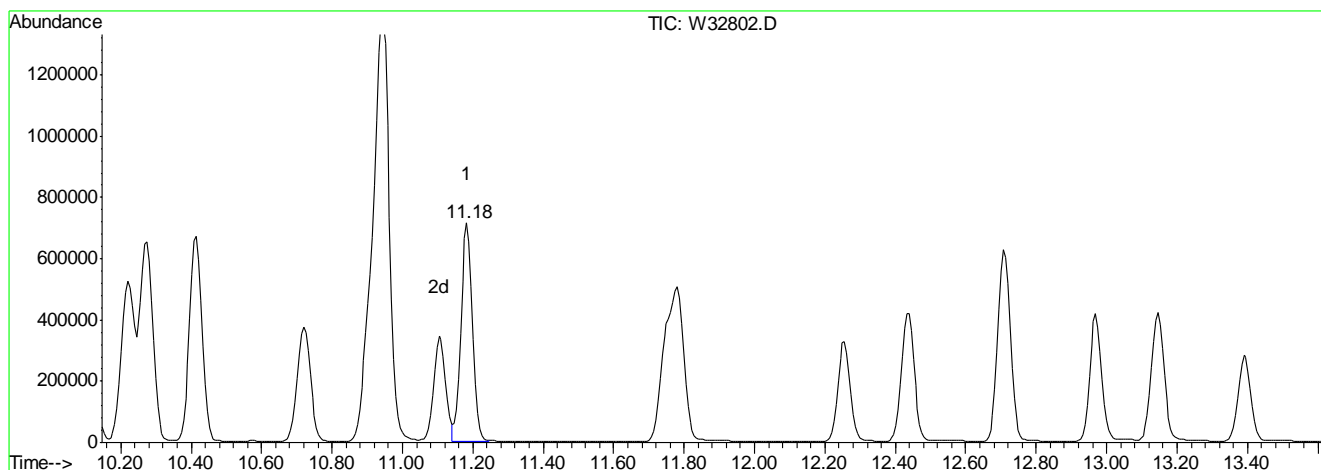
response 1059383

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	0.12#
0.00	1.00	0.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32802.D Vial: 3
Acq On : 20 Jul 2011 9:32 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:05 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.18min 10.03PPBV m

response 1624256

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	0.90	0.08#
------	------	-------

0.00	0.70	0.06#
------	------	-------

0.00	0.00	0.00
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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32830.D Vial: 3
 Acq On : 21 Jul 2011 10:05 am Operator: YOUMINH
 Sample : BS Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 08:19:52 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.59	128	151273	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.27	114	749351	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.52	82	362293	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.52	82	361561	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.16 95 180486 4.61 PPBV -0.03
 Spiked Amount 5.000 Range 65 - 128 Recovery = 92.20%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	4.88	67	35985	8.15	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.96	85	380380	8.56	PPBV	100
6) PROPYLENE	4.91	41	156377	8.27	PPBV	98
7) FREON 114	5.17	85	419051	8.05	PPBV	95
8) CHLOROMETHANE	5.10	52	55421	9.63	PPBV #	87
9) VINYL CHLORIDE	5.27	62	198911	9.99	PPBV	99
10) 1,3-BUTADIENE	5.37	54	157019	9.41	PPBV	99
11) n-BUTANE	5.42	43	323532	9.80	PPBV	99
12) BROMOMETHANE	5.59	94	160602	9.41	PPBV	99
13) CHLOROETHANE	5.71	64	112500	9.85	PPBV	95
15) ACROLEIN	6.07	56	79140	9.69	PPBV	99
16) FREON 123	6.07	83	428641	9.87	PPBV #	99
17) FREON 123A	6.11	117	235004	9.05	PPBV	92
18) TRICHLOROFLUOROMETHANE	6.29	101	386205	9.10	PPBV	100
19) ISOPROPYL ALCOHOL	6.34	45	370397	10.05	PPBV	97
20) ACETONE	6.17	58	93318	9.64	PPBV	93
22) PENTANE	6.54	57	60786	9.74	PPBV	97
23) TVHC as EQUIV PENTANE	6.54	TIC	1083221m	9.58	PPBV	
24) IODOMETHANE	6.73	142	437733	9.71	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.77	96	178934	9.38	PPBV	96
26) CARBON DISULFIDE	7.13	76	502959	10.91	PPBV	100
27) ETHANOL	5.81	45	87127	9.00	PPBV	98
29) BROMOETHENE	5.98	106	167545	9.45	PPBV	100
30) METHYLENE CHLORIDE	6.86	84	167706	9.17	PPBV	92
31) 3-CHLOROPROPENE	6.95	76	93784	10.22	PPBV	95
32) FREON 113	7.04	151	254745	8.13	PPBV	93
33) TRANS-1,2-DICHLOROETHYLENE	7.59	96	175102	9.78	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.80	59	443693	10.39	PPBV	99
35) METHYL TERTIARY BUTYL ETHER	7.80	73	466971	9.15	PPBV	98
36) TETRAHYDROFURAN	9.07	72	89181	10.08	PPBV	93
37) HEXANE	8.60	57	343238	10.42	PPBV	96
38) VINYL ACETATE	7.85	86	47652	9.63	PPBV #	86
39) 1,1-DICHLOROETHANE	7.76	63	340315	9.81	PPBV	99
40) METHYL ETHYL KETONE	8.08	72	89108	9.82	PPBV	100
41) cis-1,2-DICHLOROETHYLENE	8.45	96	185530	9.14	PPBV	99
42) DI-ISOPROPYL ETHER	8.59	45	698874	10.26	PPBV #	93
43) ETHYL ACETATE	8.61	61	58969	10.05	PPBV #	96
45) CHLOROFORM	8.70	83	335786	9.50	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.36	57	403693	10.34	PPBV	98
47) 1,1,1-TRICHLOROETHANE	9.56	97	318697	9.06	PPBV	98

(#) = qualifier out of range (m) = manual integration

W32830.D MW1322.M Wed Aug 17 12:49:04 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32830.D Vial: 3
 Acq On : 21 Jul 2011 10:05 am Operator: YOUMINH
 Sample : BS Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 08:19:52 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) CARBON TETRACHLORIDE	10.11	117	314682	8.73	PPBV	99
49) 1,2-DICHLOROETHANE	9.34	62	198623	9.73	PPBV	100
51) BENZENE	9.98	78	589482	10.31	PPBV	98
52) CYCLOHEXANE	10.22	84	275718	9.56	PPBV	95
53) 2,3-DIMETHYLPENTANE	10.41	71	147125	10.32	PPBV	96
54) TRICHLOROETHYLENE	10.94	95	224337	10.09	PPBV	96
56) 1,2-DICHLOROPROPANE	10.72	63	218404	10.15	PPBV	97
58) BROMODICHLOROMETHANE	10.91	83	356045	10.09	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	1093609	11.12	PPBV	99
60) 1,4-DIOXANE	10.96	88	116860	10.07	PPBV #	50
61) METHYL METHACRYLATE	11.11	69	191843	9.83	PPBV	96
62) HEPTANE	11.18	43	396905	10.79	PPBV	95
63) TVHC as EQUIV HEPTANE	11.18	TIC	1616761m	10.11	PPBV	
64) METHYL ISOBUTYL KETONE	11.79	43	439315	11.13	PPBV	97
65) cis-1,3-DICHLOROPROPENE	11.75	75	291332	10.17	PPBV	98
66) TOLUENE	12.71	92	385092	10.04	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.26	75	267474	10.07	PPBV	99
68) 1,1,2-TRICHLOROETHANE	12.43	83	173508	10.43	PPBV	98
71) 2-HEXANONE	12.97	43	387298	10.81	PPBV	96
72) TETRACHLOROETHYLENE	13.85	164	227758	9.44	PPBV	99
73) DIBROMOCHLOROMETHANE	13.15	129	318652	9.81	PPBV	100
74) 1,2-DIBROMOETHANE	13.39	107	274930	10.17	PPBV	100
75) OCTANE	13.68	43	517811	11.28	PPBV	93
76) 1,1,1,2-TETRACHLOROETHANE	14.55	131	236611	9.86	PPBV #	99
77) CHLOROBENZENE	14.57	112	443316	9.92	PPBV	98
78) ETHYLBENZENE	14.95	91	750814	10.43	PPBV	99
79) m,p-XYLENE	15.15	106	578255	20.70	PPBV	98
80) o-XYLENE	15.66	106	277764	10.30	PPBV	99
81) STYRENE	15.54	104	406556	10.63	PPBV	98
82) 1,2,3-TRICHLOROPROPANE	15.80	75	268294	10.18	PPBV	97
83) NONANE	15.88	43	464612	11.64	PPBV	97
84) BROMOFORM	15.25	173	276690	9.93	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.66	83	359778	11.38	PPBV	99
87) ISOPROPYLBENZENE	16.31	105	769731	10.14	PPBV	99
89) 2-CHLOROTOLUENE	16.85	126	169655	10.01	PPBV #	98
90) n-PROPYLBENZENE	16.88	120	195904	10.46	PPBV	93
91) 4-ETHYLTOLUENE	17.04	105	672829	10.66	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.13	105	524773	10.05	PPBV	100
94) TERT-BUTYLBENZENE	17.59	134	136191	9.89	PPBV	100
95) 1,2,4-TRIMETHYLBENZENE	17.60	105	500502	10.46	PPBV	98
96) m-DICHLOROBENZENE	17.77	146	297077	10.48	PPBV	99
97) BENZYL CHLORIDE	17.75	91	373898	11.08	PPBV	98
98) p-DICHLOROBENZENE	17.85	146	290567	10.40	PPBV	99
99) SEC-BUTYLBENZENE	17.90	134	152774	10.27	PPBV	93
100) p-ISOPROPYLTOLUENE	18.08	134	150321	10.64	PPBV	98
101) o-DICHLOROBENZENE	18.24	146	258080	10.12	PPBV	99
102) n-BUTYLBENZENE	18.57	134	114390	9.85	PPBV	92
104) HEXACHLOROBTADIENE	20.72	225	88218	9.88	PPBV	99
105) 1,2,4-TRICHLOROBENZENE	20.21	180	64598	10.58	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32830.D MW1322.M Wed Aug 17 12:49:05 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32830.D Vial: 3
Acq On : 21 Jul 2011 10:05 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 08:19:52 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

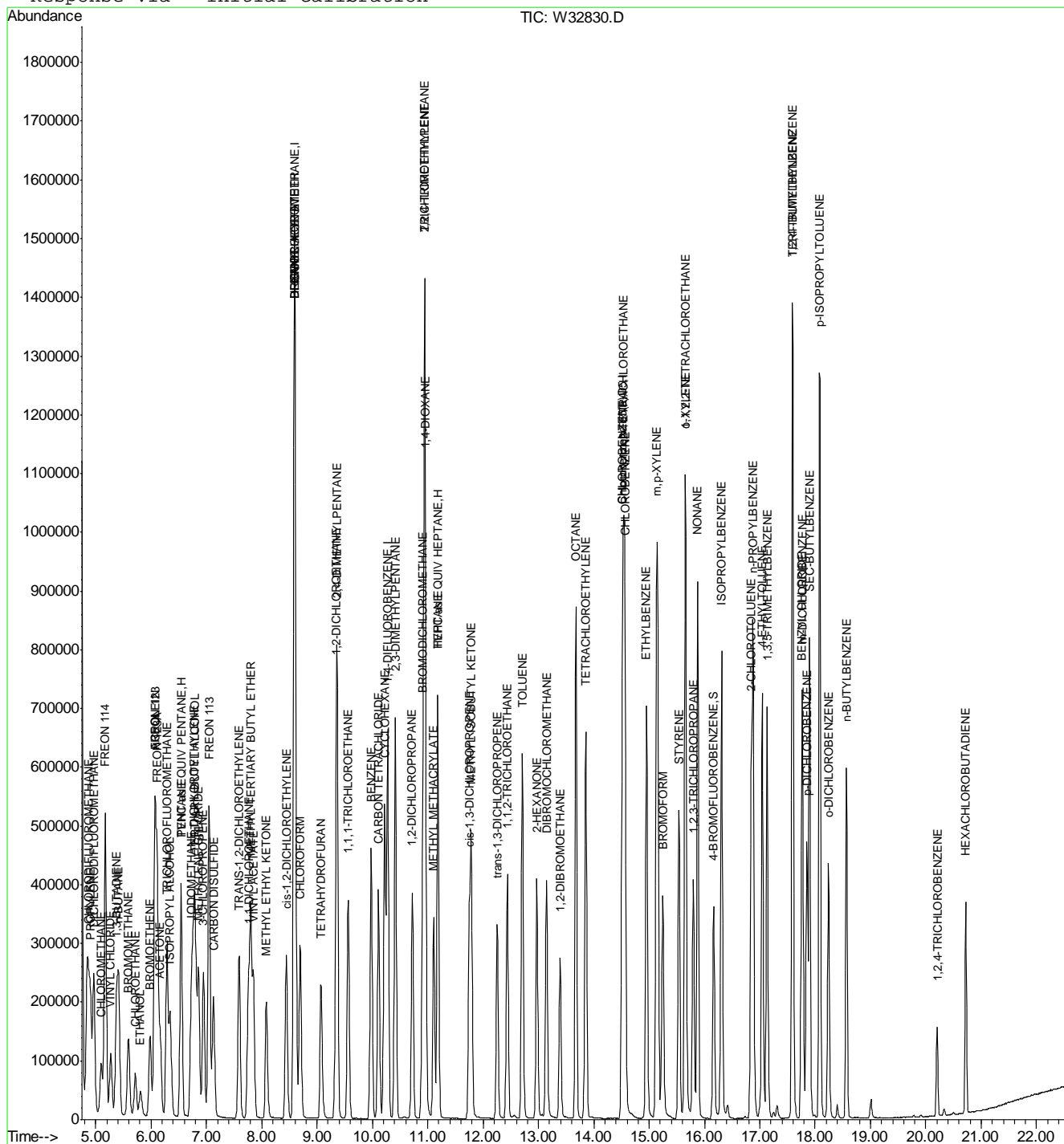
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32830.D MW1322.M Wed Aug 17 12:49:05 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32830.D Vial: 3
Acq On : 21 Jul 2011 10:05 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 8:50 2011 Quant Results File: MW1322.RES

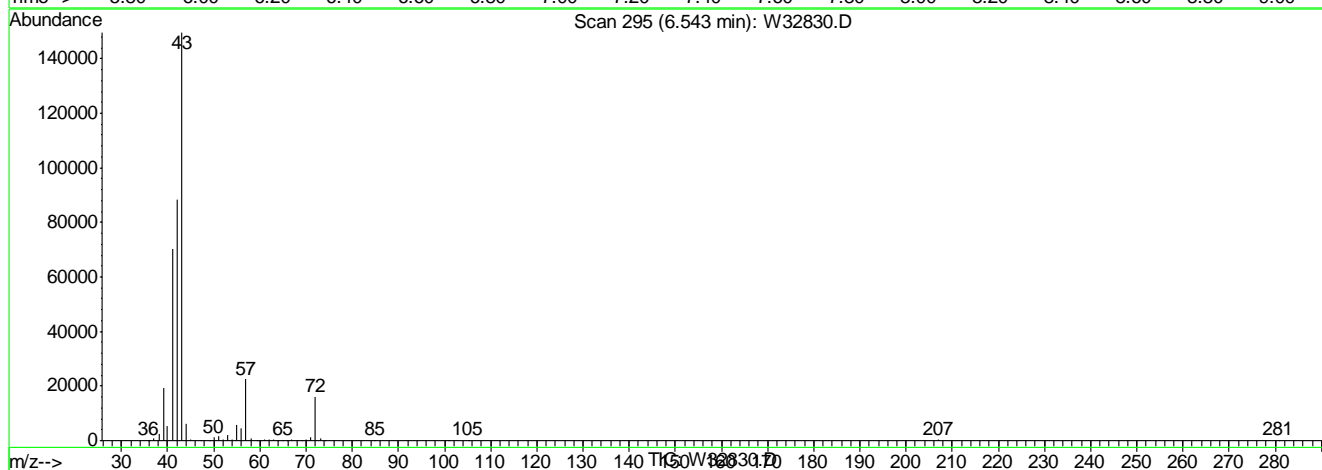
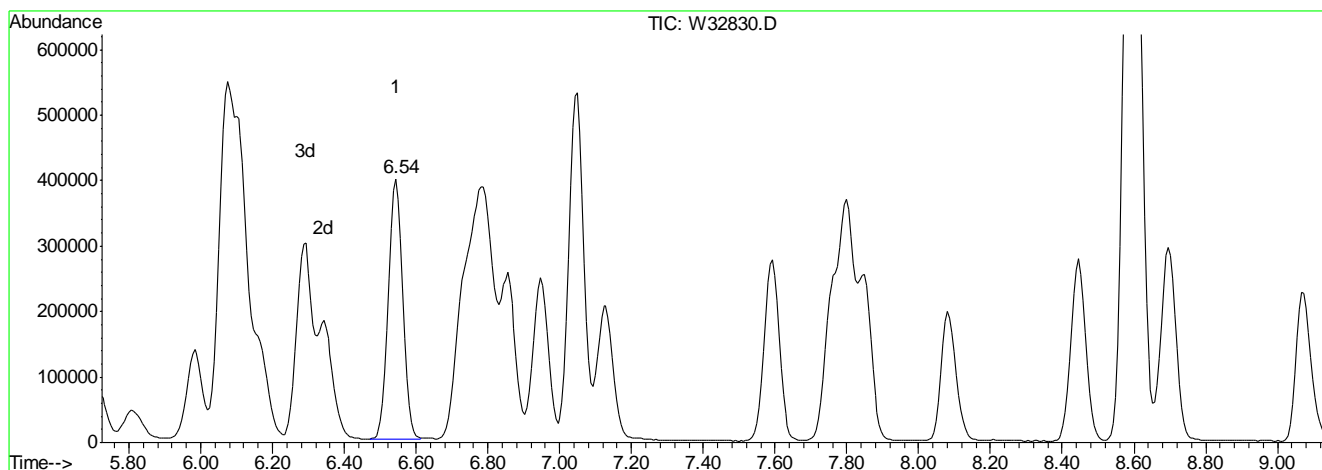
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32830.D Vial: 3
Acq On : 21 Jul 2011 10:05 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 8:50 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.54min 9.58PPBV m

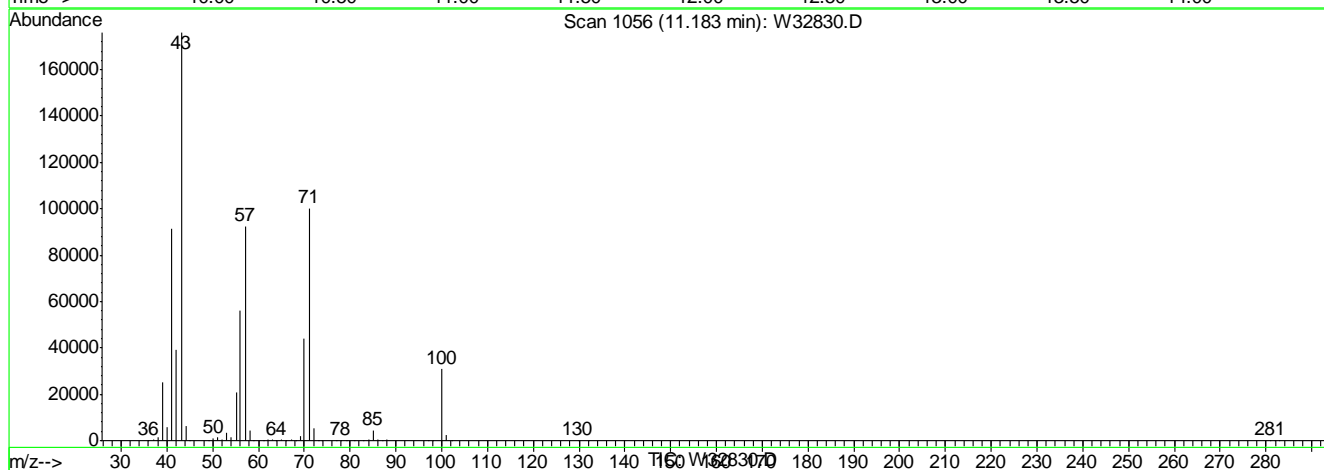
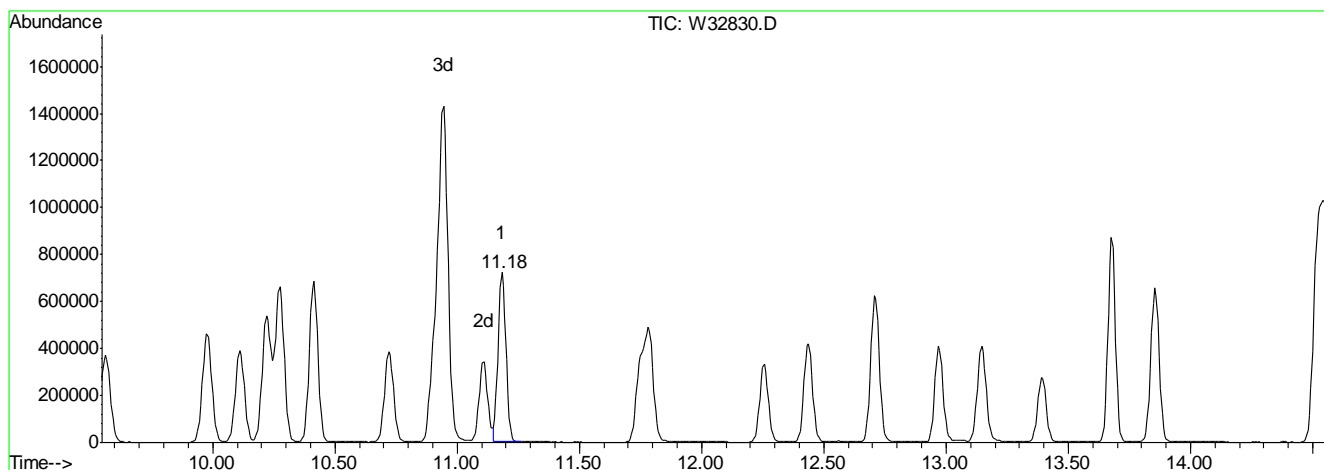
response 1083221

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	0.15#
0.00	1.00	0.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32830.D Vial: 3
Acq On : 21 Jul 2011 10:05 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 8:50 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.18min 10.11PPBV m

response 1616761

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	0.10#
------	------	-------

0.00	0.70	0.07#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32831.D Vial: 3
 Acq On : 21 Jul 2011 10:46 am Operator: YOUMINH
 Sample : BSD Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 08:19:56 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.59	128	157996	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.27	114	803542	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.52	82	382780	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.52	82	380687	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.16	95	191039	4.62	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	92.40%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	4.88	67	35716	7.75	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.96	85	369448	7.96	PPBV	100
6) PROPYLENE	4.90	41	149274	7.56	PPBV	98
7) FREON 114	5.17	85	408886	7.52	PPBV	95
8) CHLOROMETHANE	5.10	52	53751	8.95	PPBV	98
9) VINYL CHLORIDE	5.27	62	193359	9.29	PPBV	99
10) 1,3-BUTADIENE	5.37	54	153234	8.79	PPBV	97
11) n-BUTANE	5.42	43	308337	8.95	PPBV #	99
12) BROMOMETHANE	5.59	94	158072	8.87	PPBV	99
13) CHLOROETHANE	5.71	64	110929	9.30	PPBV	94
15) ACROLEIN	6.06	56	78719	9.23	PPBV	100
16) FREON 123	6.07	83	423325	9.33	PPBV #	99
17) FREON 123A	6.11	117	233911	8.62	PPBV	94
18) TRICHLOROFLUOROMETHANE	6.29	101	378494	8.54	PPBV	100
19) ISOPROPYL ALCOHOL	6.34	45	363309	9.44	PPBV	97
20) ACETONE	6.16	58	95382	9.44	PPBV	90
22) PENTANE	6.54	57	58494	8.97	PPBV	97
23) TVHC as EQUIV PENTANE	6.54	TIC	1040590m	8.81	PPBV	
24) IODOMETHANE	6.73	142	434063	9.22	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.77	96	175222	8.79	PPBV	97
26) CARBON DISULFIDE	7.13	76	491437	10.21	PPBV	100
27) ETHANOL	5.81	45	83270	8.24	PPBV	98
29) BROMOETHENE	5.98	106	166777	9.01	PPBV	100
30) METHYLENE CHLORIDE	6.85	84	170049	8.90	PPBV	95
31) 3-CHLOROPROPENE	6.95	76	91355	9.53	PPBV	95
32) FREON 113	7.05	151	253563	7.75	PPBV	94
33) TRANS-1,2-DICHLOROETHYLENE	7.59	96	173104	9.26	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.80	59	441726	9.91	PPBV	99
35) METHYL TERTIARY BUTYL ETHER	7.80	73	474559	8.90	PPBV	99
36) TETRAHYDROFURAN	9.07	72	90560	9.80	PPBV	96
37) HEXANE	8.60	57	337197	9.80	PPBV	96
38) VINYL ACETATE	7.85	86	48338	9.35	PPBV #	94
39) 1,1-DICHLOROETHANE	7.76	63	333016	9.19	PPBV	99
40) METHYL ETHYL KETONE	8.08	72	89417	9.44	PPBV	97
41) cis-1,2-DICHLOROETHYLENE	8.45	96	184845	8.72	PPBV	99
42) DI-ISOPROPYL ETHER	8.59	45	692471	9.73	PPBV	94
43) ETHYL ACETATE	8.61	61	58949	9.62	PPBV	98
45) CHLOROFORM	8.70	83	328625	8.91	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.36	57	391889	9.61	PPBV	98
47) 1,1,1-TRICHLOROETHANE	9.56	97	314737	8.57	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32831.D MW1322.M Wed Aug 17 12:49:07 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32831.D Vial: 3
 Acq On : 21 Jul 2011 10:46 am Operator: YOUMINH
 Sample : BSD Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 08:19:56 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) CARBON TETRACHLORIDE	10.11	117	311328	8.27	PPBV	99
49) 1,2-DICHLOROETHANE	9.34	62	195621	9.17	PPBV	100
51) BENZENE	9.98	78	585532	9.55	PPBV	98
52) CYCLOHEXANE	10.22	84	270958	8.76	PPBV	96
53) 2,3-DIMETHYLPENTANE	10.41	71	144321	9.44	PPBV	99
54) TRICHLOROETHYLENE	10.94	95	222121	9.32	PPBV	97
56) 1,2-DICHLOROPROPANE	10.72	63	217987	9.45	PPBV	97
58) BROMODICHLOROMETHANE	10.91	83	353943	9.35	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	1060782	10.06	PPBV	99
60) 1,4-DIOXANE	10.96	88	120370	9.67	PPBV #	44
61) METHYL METHACRYLATE	11.11	69	194161	9.28	PPBV	99
62) HEPTANE	11.18	43	382466	9.70	PPBV	96
63) TVHC as EQUIV HEPTANE	11.18	TIC	1574088m	9.18	PPBV	
64) METHYL ISOBUTYL KETONE	11.79	43	437534	10.34	PPBV	98
65) cis-1,3-DICHLOROPROPENE	11.75	75	290413	9.45	PPBV	98
66) TOLUENE	12.71	92	389812	9.48	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.26	75	265327	9.31	PPBV	99
68) 1,1,2-TRICHLOROETHANE	12.44	83	175198	9.82	PPBV	97
71) 2-HEXANONE	12.97	43	384669	10.16	PPBV	97
72) TETRACHLOROETHYLENE	13.85	164	229415	9.00	PPBV	99
73) DIBROMOCHLOROMETHANE	13.15	129	323238	9.41	PPBV	99
74) 1,2-DIBROMOETHANE	13.39	107	279385	9.79	PPBV	100
75) OCTANE	13.68	43	498948	10.29	PPBV	95
76) 1,1,1,2-TETRACHLOROETHANE	14.55	131	238076	9.39	PPBV #	100
77) CHLOROBENZENE	14.57	112	449119	9.52	PPBV	99
78) ETHYLBENZENE	14.96	91	756654	9.95	PPBV	99
79) m,p-XYLENE	15.14	106	584728	19.82	PPBV	97
80) o-XYLENE	15.66	106	280156	9.83	PPBV	99
81) STYRENE	15.54	104	410853	10.16	PPBV	98
82) 1,2,3-TRICHLOROPROPANE	15.80	75	268227	9.63	PPBV	98
83) NONANE	15.88	43	456153	10.81	PPBV	97
84) BROMOFORM	15.25	173	282274	9.59	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.66	83	358415	10.73	PPBV	99
87) ISOPROPYLBENZENE	16.31	105	779887	9.72	PPBV	99
89) 2-CHLOROTOLUENE	16.85	126	170751	9.54	PPBV #	99
90) n-PROPYLBENZENE	16.88	120	197061	9.96	PPBV	94
91) 4-ETHYLTOLUENE	17.04	105	680246	10.20	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.13	105	530654	9.62	PPBV	100
94) TERT-BUTYLBENZENE	17.59	134	137757	9.46	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.60	105	505886	10.01	PPBV	99
96) m-DICHLOROBENZENE	17.77	146	299564	10.01	PPBV	99
97) BENZYL CHLORIDE	17.75	91	372214	10.44	PPBV	99
98) p-DICHLOROBENZENE	17.85	146	294423	9.97	PPBV	99
99) SEC-BUTYLBENZENE	17.90	134	154727	9.85	PPBV	94
100) p-ISOPROPYLTOLUENE	18.08	134	152612	10.22	PPBV	98
101) o-DICHLOROBENZENE	18.24	146	262100	9.73	PPBV	99
102) n-BUTYLBENZENE	18.57	134	115255	9.39	PPBV	93
104) HEXACHLOROBUTADIENE	20.72	225	88110	9.34	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.21	180	62513	9.69	PPBV	100

(#) = qualifier out of range (m) = manual integration

W32831.D MW1322.M Wed Aug 17 12:49:07 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32831.D Vial: 3
Acq On : 21 Jul 2011 10:46 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 08:19:56 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

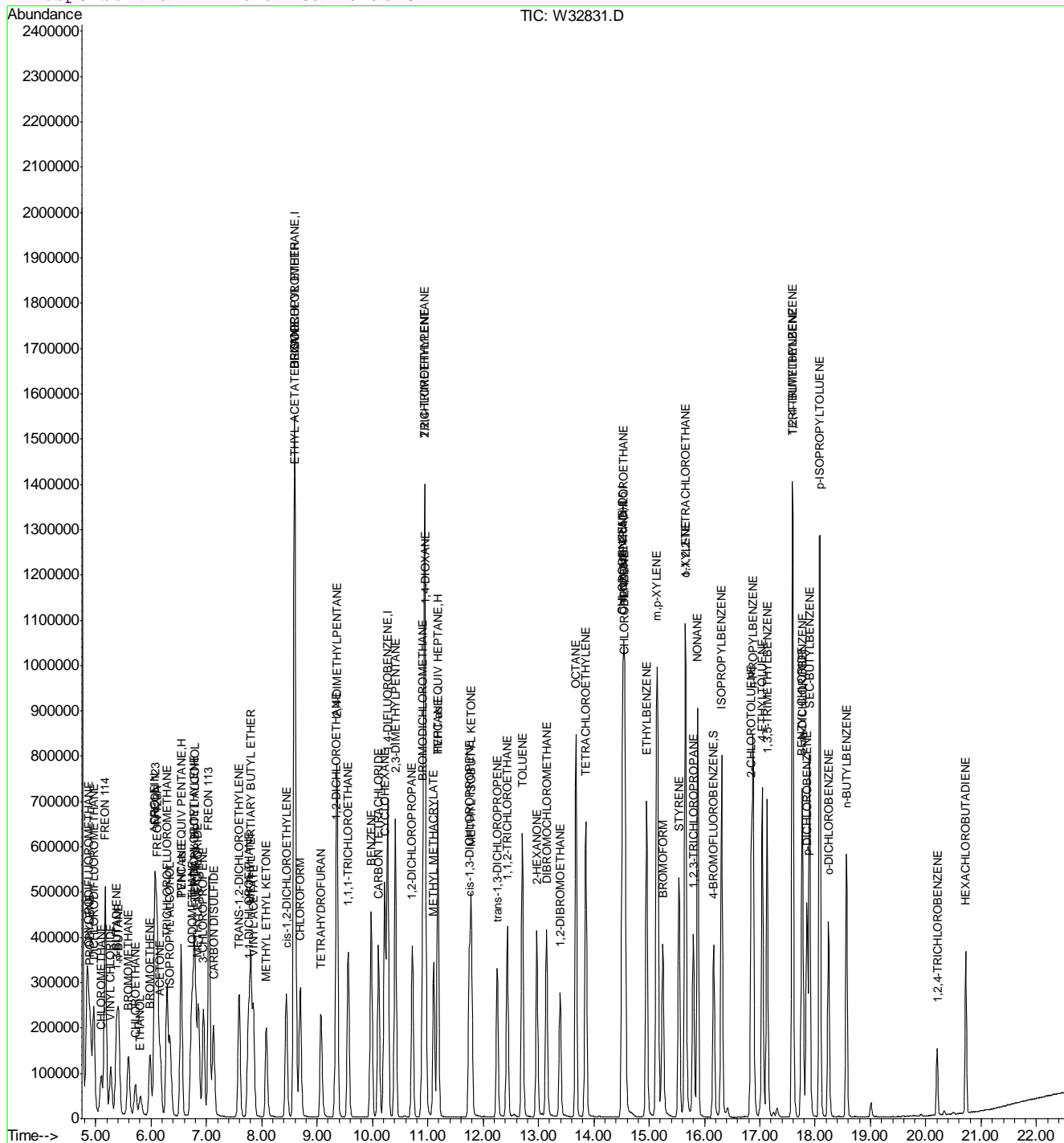
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32831.D MW1322.M Wed Aug 17 12:49:08 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32831.D Vial: 3
Acq On : 21 Jul 2011 10:46 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 8:51 2011 Quant Results File: MW1322.RES

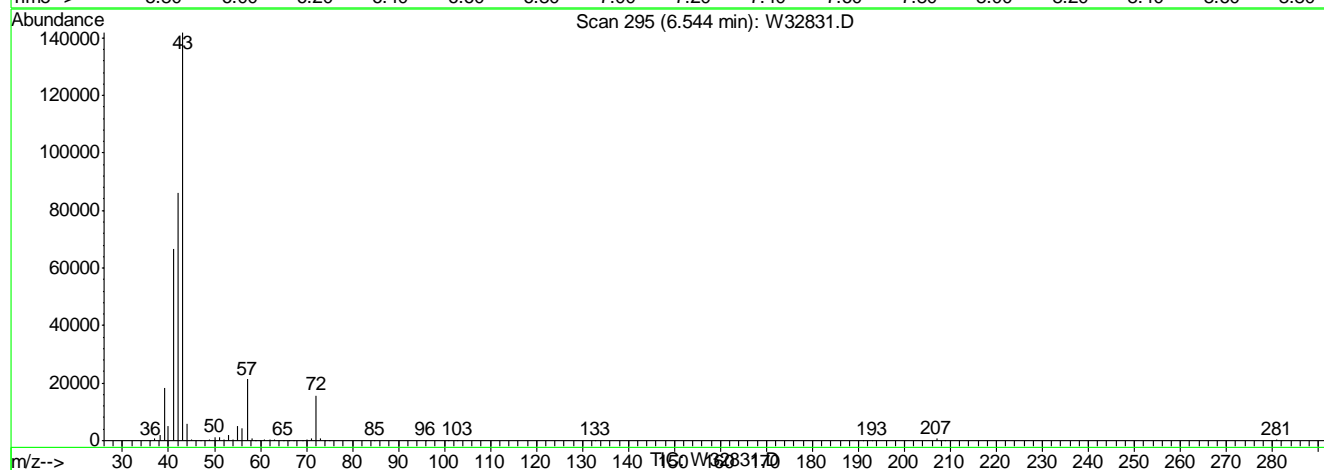
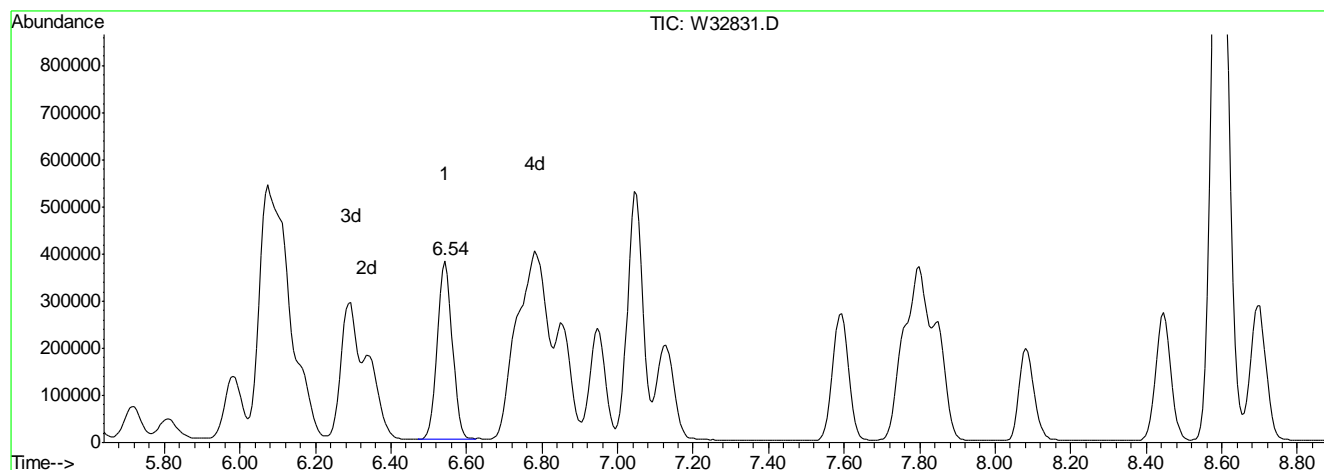
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32831.D Vial: 3
Acq On : 21 Jul 2011 10:46 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 8:51 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.54min 8.81PPBV m

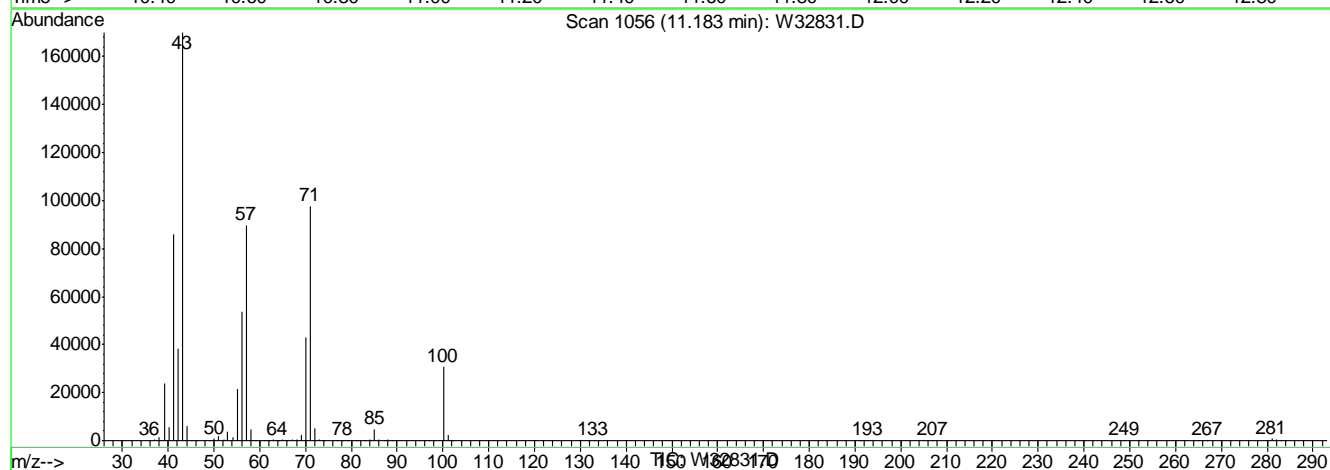
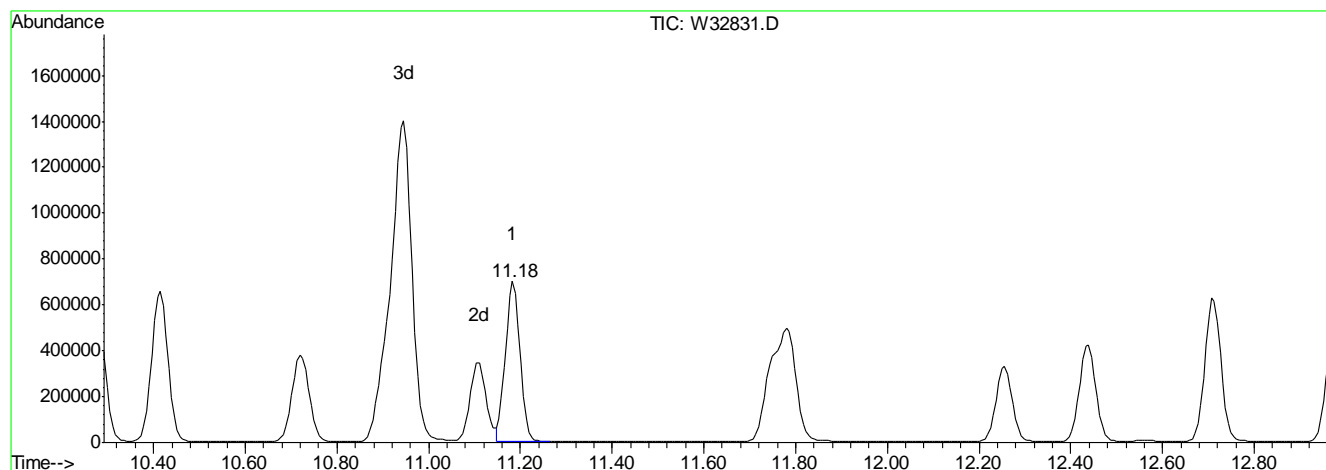
response 1040590

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	0.11#
0.00	1.00	0.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32831.D Vial: 3
 Acq On : 21 Jul 2011 10:46 am Operator: YOUMINH
 Sample : BSD Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 8:51 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.18min 9.18PPBV m

response 1574088

Signal	Exp%	Act%
TIC	100	100
0.00	0.90	0.07#
0.00	0.70	0.06#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32387.D Vial: 3
 Acq On : 23 Jun 2011 9:43 am Operator: YOUMINH
 Sample : BS Inst : MSW
 Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 24 08:07:28 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.62	128	149420	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	762301	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.55	82	370524	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.55	82	369497	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.19 95 209143 5.22 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 104.40%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.89	67	40001	9.18	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.97	85	400507	9.12	PPBV	99
6) PROPYLENE	4.91	41	161407	8.64	PPBV	100
7) FREON 114	5.18	85	419009	8.15	PPBV	96
8) CHLOROMETHANE	5.10	52	53504	9.42	PPBV	91
9) VINYL CHLORIDE	5.28	62	186813	9.49	PPBV	99
10) 1,3-BUTADIENE	5.39	54	149758	9.09	PPBV	99
11) n-BUTANE	5.42	43	304691	9.35	PPBV	99
12) BROMOMETHANE	5.60	94	151254	8.98	PPBV	99
13) CHLOROETHANE	5.73	64	105915	9.38	PPBV	96
15) ACROLEIN	6.07	56	73817	9.15	PPBV	100
16) FREON 123	6.08	83	394688	9.20	PPBV #	99
17) FREON 123A	6.12	117	224230	8.74	PPBV	93
18) TRICHLOROFLUOROMETHANE	6.30	101	369635	8.82	PPBV	100
19) ISOPROPYL ALCOHOL	6.35	45	316995	8.71	PPBV	98
20) ACETONE	6.18	58	81512	8.53	PPBV	97
22) PENTANE	6.56	57	53439	8.67	PPBV	97
23) TVHC as EQUIV PENTANE	6.56	TIC	963730m	8.63	PPBV	
24) IODOMETHANE	6.74	142	402204	9.04	PPBV	98
25) 1,1-DICHLOROETHYLENE	6.79	96	156189	8.29	PPBV	94
26) CARBON DISULFIDE	7.14	76	444199	9.75	PPBV	99
27) ETHANOL	5.81	45	78284	8.19	PPBV	98
29) BROMOETHENE	5.99	106	156851	8.96	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	144521	8.00	PPBV	95
31) 3-CHLOROPROPENE	6.96	76	85264	9.41	PPBV	95
32) FREON 113	7.06	151	254367	8.22	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	160734	9.09	PPBV	97
34) TERTIARY BUTYL ALCOHOL	6.81	59	371515	8.81	PPBV	99
35) METHYL TERTIARY BUTYL ETHER	7.82	73	457612	9.08	PPBV	99
36) TETRAHYDROFURAN	9.09	72	82102	9.40	PPBV	97
37) HEXANE	8.62	57	295193	9.07	PPBV	98
38) VINYL ACETATE	7.87	86	44592	9.12	PPBV #	91
39) 1,1-DICHLOROETHANE	7.77	63	312236	9.12	PPBV	100
40) METHYL ETHYL KETONE	8.10	72	79285	8.85	PPBV	99
41) cis-1,2-DICHLOROETHYLENE	8.47	96	169157	8.44	PPBV	97
42) DI-ISOPROPYL ETHER	8.61	45	622157	9.24	PPBV	94
43) ETHYL ACETATE	8.63	61	51313	8.85	PPBV #	94
45) CHLOROFORM	8.72	83	312914	8.97	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.38	57	362381	9.40	PPBV	99
47) 1,1,1-TRICHLOROETHANE	9.59	97	312740	9.00	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32387.D MW1322.M Tue Aug 16 08:56:07 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32387.D Vial: 3
 Acq On : 23 Jun 2011 9:43 am Operator: YOUMINH
 Sample : BS Inst : MSW
 Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 24 08:07:28 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) CARBON TETRACHLORIDE	10.14	117	316655	8.89	PPBV	100
49) 1,2-DICHLOROETHANE	9.36	62	191062	9.47	PPBV	100
51) BENZENE	10.01	78	534226	9.19	PPBV	99
52) CYCLOHEXANE	10.24	84	252959	8.62	PPBV	96
53) 2,3-DIMETHYLPENTANE	10.44	71	133825	9.23	PPBV	99
54) TRICHLOROETHYLENE	10.96	95	201551	8.92	PPBV	98
56) 1,2-DICHLOROPROPANE	10.75	63	198473	9.07	PPBV	100
58) BROMODICHLOROMETHANE	10.93	83	331533	9.23	PPBV	99
59) 2,2,4-TRIMETHYLPENTANE	10.98	57	962576	9.62	PPBV	100
60) 1,4-DIOXANE	10.99	88	97089	8.22	PPBV #	85
61) METHYL METHACRYLATE	11.13	69	172083	8.67	PPBV	96
62) HEPTANE	11.21	43	340916	9.11	PPBV	98
63) TVHC as EQUIV HEPTANE	11.21	TIC	1454683m	8.94	PPBV	
64) METHYL ISOBUTYL KETONE	11.81	43	346057	8.62	PPBV	99
65) cis-1,3-DICHLOROPROPENE	11.77	75	269828	9.26	PPBV	100
66) TOLUENE	12.74	92	363780	9.32	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.28	75	254043	9.40	PPBV	99
68) 1,1,2-TRICHLOROETHANE	12.46	83	158976	9.39	PPBV	100
71) 2-HEXANONE	12.99	43	302052	8.25	PPBV	97
72) TETRACHLOROETHYLENE	13.88	164	213704	8.66	PPBV	98
73) DIBROMOCHLOROMETHANE	13.17	129	311318	9.37	PPBV	100
74) 1,2-DIBROMOETHANE	13.42	107	258826	9.37	PPBV	99
75) OCTANE	13.71	43	449411	9.58	PPBV	98
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	235467	9.60	PPBV #	100
77) CHLOROBENZENE	14.59	112	424630	9.30	PPBV	100
78) ETHYLBENZENE	14.98	91	719488	9.77	PPBV	100
79) m,p-XYLENE	15.17	106	554128	19.40	PPBV	98
80) o-XYLENE	15.68	106	268063	9.72	PPBV	99
81) STYRENE	15.57	104	391983	10.02	PPBV	99
82) 1,2,3-TRICHLOROPROPANE	15.83	75	262630	9.74	PPBV	98
83) NONANE	15.90	43	421171	10.31	PPBV	99
84) BROMOFORM	15.27	173	275583	9.67	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	15.68	83	329520	10.19	PPBV	99
87) ISOPROPYLBENZENE	16.33	105	765226	9.85	PPBV	100
89) 2-CHLOROTOLUENE	16.87	126	170208	9.82	PPBV #	98
90) n-PROPYLBENZENE	16.91	120	196986	10.29	PPBV	98
91) 4-ETHYLTOLUENE	17.07	105	670978	10.39	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	540180	10.12	PPBV	99
94) TERT-BUTYLBENZENE	17.61	134	139513	9.90	PPBV	98
95) 1,2,4-TRIMETHYLBENZENE	17.62	105	511339	10.45	PPBV	99
96) m-DICHLOROBENZENE	17.80	146	291829	10.07	PPBV	99
97) BENZYL CHLORIDE	17.78	91	360412	10.44	PPBV	99
98) p-DICHLOROBENZENE	17.88	146	284955	9.97	PPBV	99
99) SEC-BUTYLBENZENE	17.93	134	159097	10.46	PPBV	99
100) p-ISOPROPYLTOLUENE	18.10	134	153517	10.62	PPBV	98
101) o-DICHLOROBENZENE	18.27	146	256723	9.84	PPBV	100
102) n-BUTYLBENZENE	18.59	134	116355	9.80	PPBV	98
104) HEXACHLOROBUTADIENE	20.74	225	91239	10.00	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.23	180	53773	8.61	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32387.D MW1322.M Tue Aug 16 08:56:07 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32387.D Vial: 3
Acq On : 23 Jun 2011 9:43 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 08:07:28 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

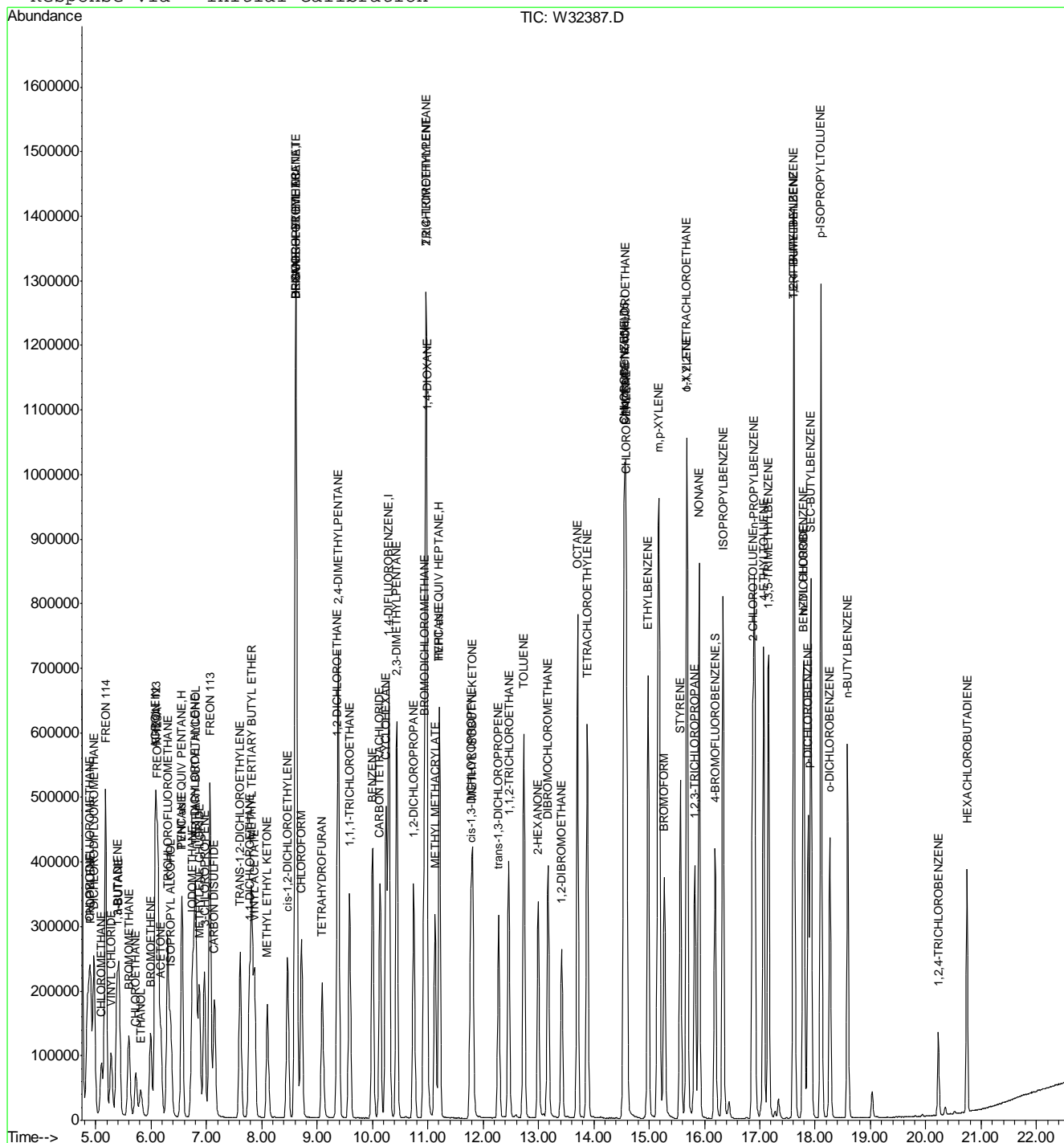
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32387.D MW1322.M Tue Aug 16 08:56:07 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32387.D Vial: 3
Acq On : 23 Jun 2011 9:43 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: MW1322.RES

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration

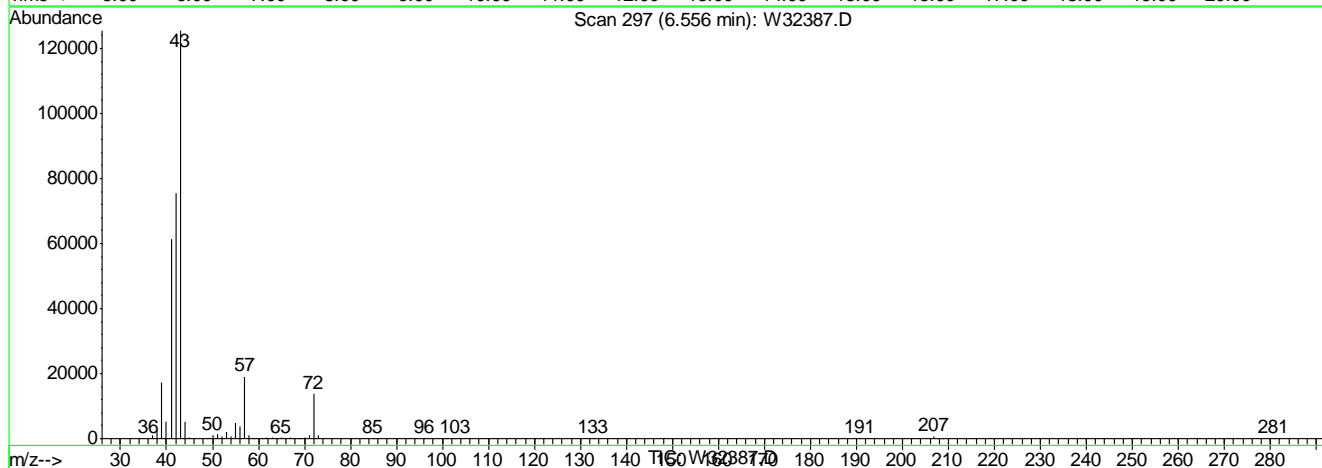
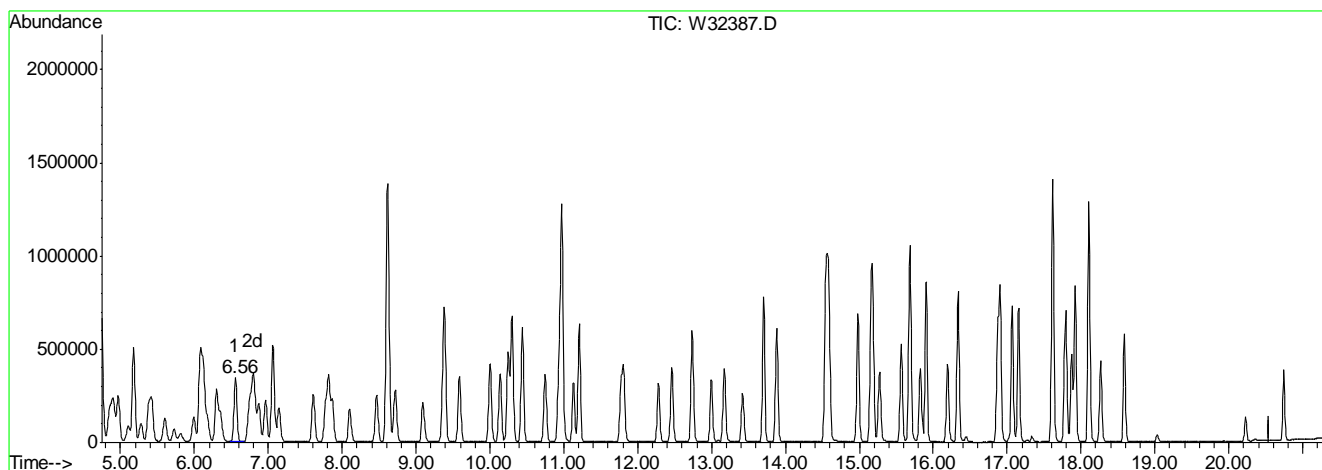


6.3.5

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32387.D Vial: 3
Acq On : 23 Jun 2011 9:43 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 8.63PPBV m

response 963730

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	1.40	0.15#
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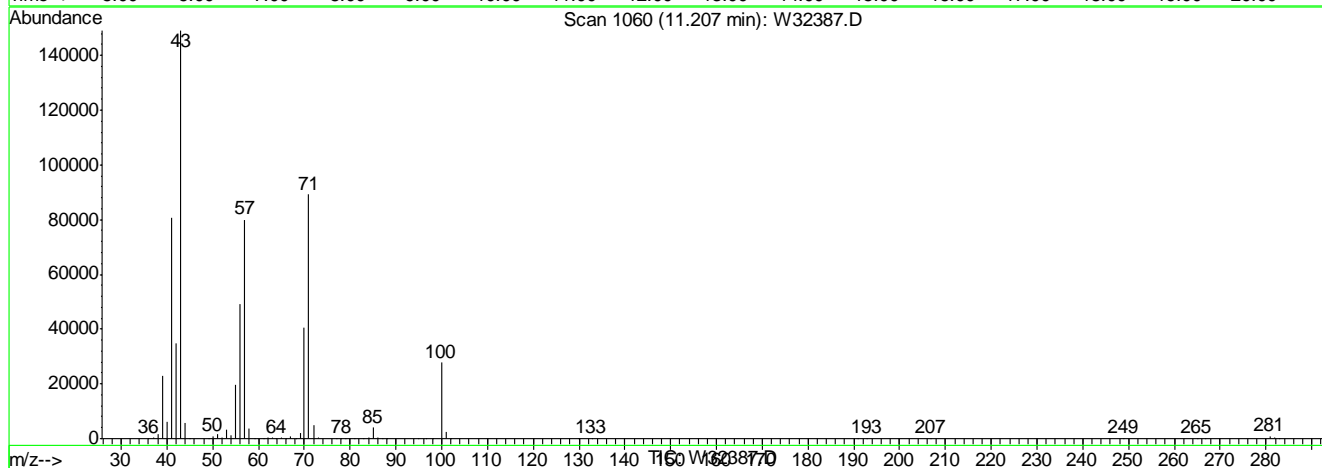
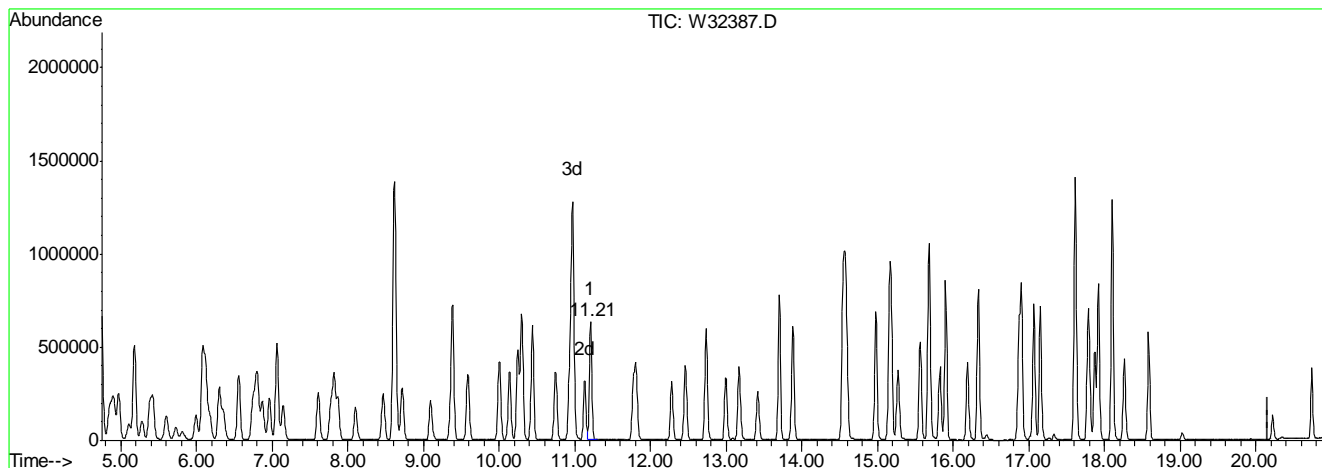
0.00	1.00	0.13#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32387.D Vial: 3
Acq On : 23 Jun 2011 9:43 am Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 8.94PPBV m

response 1454683

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	0.10#
------	------	-------

0.00	0.70	0.08#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32388.D Vial: 3
 Acq On : 23 Jun 2011 11:14 am Operator: YOUMINH
 Sample : BSD Inst : MSW
 Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 24 08:07:31 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.62	128	151288	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	765275	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.55	82	373517	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.55	82	372969	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.19 95 209874 5.20 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 104.00%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	4.89	67	46097	10.44	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.97	85	464274	10.45	PPBV	99
6) PROPYLENE	4.91	41	185996	9.84	PPBV	99
7) FREON 114	5.18	85	491184	9.43	PPBV	95
8) CHLOROMETHANE	5.10	52	62075	10.79	PPBV #	88
9) VINYL CHLORIDE	5.28	62	219625	11.02	PPBV	99
10) 1,3-BUTADIENE	5.39	54	176221	10.56	PPBV	98
11) n-BUTANE	5.42	43	355993	10.79	PPBV	99
12) BROMOMETHANE	5.60	94	178284	10.45	PPBV	99
13) CHLOROETHANE	5.73	64	123919	10.84	PPBV	95
15) ACROLEIN	6.07	56	86407	10.58	PPBV	100
16) FREON 123	6.08	83	462829	10.66	PPBV #	100
17) FREON 123A	6.12	117	264094	10.17	PPBV	94
18) TRICHLOROFLUOROMETHANE	6.30	101	434089	10.23	PPBV	100
19) ISOPROPYL ALCOHOL	6.35	45	388452	10.54	PPBV	100
20) ACETONE	6.17	58	97634	10.09	PPBV	98
22) PENTANE	6.56	57	61972	9.93	PPBV	95
23) TVHC as EQUIV PENTANE	6.56	TIC	1120092m	9.90	PPBV	
24) IODOMETHANE	6.74	142	476341	10.57	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.79	96	183933	9.64	PPBV	95
26) CARBON DISULFIDE	7.14	76	522673	11.34	PPBV	100
27) ETHANOL	5.81	45	91782	9.48	PPBV	98
29) BROMOETHENE	6.00	106	184836	10.42	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	169548	9.27	PPBV	96
31) 3-CHLOROPROPENE	6.96	76	101673	11.08	PPBV	97
32) FREON 113	7.06	151	298707	9.53	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	190166	10.62	PPBV	98
34) TERTIARY BUTYL ALCOHOL	6.81	59	460535	10.79	PPBV	99
35) METHYL TERTIARY BUTYL ETHER	7.82	73	555418	10.88	PPBV	99
36) TETRAHYDROFURAN	9.09	72	99709	11.27	PPBV	96
37) HEXANE	8.62	57	343748	10.43	PPBV	97
38) VINYL ACETATE	7.87	86	53322	10.77	PPBV #	91
39) 1,1-DICHLOROETHANE	7.78	63	366047	10.56	PPBV	100
40) METHYL ETHYL KETONE	8.10	72	98803	10.89	PPBV	96
41) cis-1,2-DICHLOROETHYLENE	8.46	96	199578	9.83	PPBV	97
42) DI-ISOPROPYL ETHER	8.61	45	749316	11.00	PPBV	94
43) ETHYL ACETATE	8.63	61	63304	10.79	PPBV	100
45) CHLOROFORM	8.72	83	367578	10.40	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.38	57	425881	10.91	PPBV	100
47) 1,1,1-TRICHLOROETHANE	9.59	97	368208	10.47	PPBV	99

(#) = qualifier out of range (m) = manual integration

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Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32388.D Vial: 3
 Acq On : 23 Jun 2011 11:14 am Operator: YOUMINH
 Sample : BSD Inst : MSW
 Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 24 08:07:31 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) CARBON TETRACHLORIDE	10.13	117	372960	10.35	PPBV	100
49) 1,2-DICHLOROETHANE	9.36	62	225319	11.03	PPBV	99
51) BENZENE	10.00	78	631067	10.81	PPBV	99
52) CYCLOHEXANE	10.25	84	299207	10.16	PPBV	98
53) 2,3-DIMETHYLPENTANE	10.44	71	157655	10.83	PPBV	99
54) TRICHLOROETHYLENE	10.96	95	236863	10.44	PPBV	99
56) 1,2-DICHLOROPROPANE	10.74	63	233801	10.64	PPBV	100
58) BROMODICHLOROMETHANE	10.93	83	389806	10.81	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.98	57	1126954	11.22	PPBV	100
60) 1,4-DIOXANE	10.99	88	124989	10.55	PPBV #	62
61) METHYL METHACRYLATE	11.13	69	213644	10.72	PPBV	97
62) HEPTANE	11.21	43	398159	10.60	PPBV	99
63) TVHC as EQUIV HEPTANE	11.21	TIC	1704159m	10.43	PPBV	
64) METHYL ISOBUTYL KETONE	11.81	43	439039	10.89	PPBV	99
65) cis-1,3-DICHLOROPROPENE	11.77	75	320912	10.97	PPBV	100
66) TOLUENE	12.74	92	430041	10.98	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.28	75	302680	11.15	PPBV	100
68) 1,1,2-TRICHLOROETHANE	12.46	83	190181	11.19	PPBV	99
71) 2-HEXANONE	12.99	43	390165	10.57	PPBV	97
72) TETRACHLOROETHYLENE	13.88	164	251759	10.13	PPBV	98
73) DIBROMOCHLOROMETHANE	13.17	129	369949	11.04	PPBV	100
74) 1,2-DIBROMOETHANE	13.42	107	308888	11.09	PPBV	100
75) OCTANE	13.71	43	525410	11.10	PPBV	99
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	278358	11.26	PPBV #	100
77) CHLOROBENZENE	14.59	112	503447	10.93	PPBV	99
78) ETHYLBENZENE	14.98	91	858374	11.57	PPBV	99
79) m,p-XYLENE	15.17	106	659875	22.92	PPBV	98
80) o-XYLENE	15.68	106	320012	11.51	PPBV	100
81) STYRENE	15.57	104	470975	11.94	PPBV	100
82) 1,2,3-TRICHLOROPROPANE	15.83	75	315597	11.62	PPBV	99
83) NONANE	15.90	43	495329	12.03	PPBV	99
84) BROMOFORM	15.27	173	330427	11.50	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.68	83	396600	12.16	PPBV	99
87) ISOPROPYLBENZENE	16.33	105	919512	11.75	PPBV	99
89) 2-CHLOROTOLUENE	16.87	126	203839	11.67	PPBV #	98
90) n-PROPYLBENZENE	16.91	120	235386	12.19	PPBV	98
91) 4-ETHYLTOLUENE	17.07	105	806560	12.39	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	649936	12.07	PPBV	100
94) TERT-BUTYLBENZENE	17.61	134	167195	11.77	PPBV	98
95) 1,2,4-TRIMETHYLBENZENE	17.62	105	617697	12.52	PPBV	98
96) m-DICHLOROBENZENE	17.80	146	352108	12.05	PPBV	99
97) BENZYL CHLORIDE	17.78	91	447957	12.87	PPBV	99
98) p-DICHLOROBENZENE	17.88	146	347880	12.08	PPBV	100
99) SEC-BUTYLBENZENE	17.92	134	191484	12.49	PPBV	98
100) p-ISOPROPYLTOLUENE	18.10	134	188076	12.91	PPBV	99
101) o-DICHLOROBENZENE	18.27	146	311109	11.83	PPBV	100
102) n-BUTYLBENZENE	18.59	134	144689	12.09	PPBV	98
104) HEXACHLOROBUTADIENE	20.74	225	111632	12.13	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.22	180	69101	10.97	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32388.D MW1322.M Tue Aug 16 08:56:10 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32388.D Vial: 3
Acq On : 23 Jun 2011 11:14 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 08:07:31 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

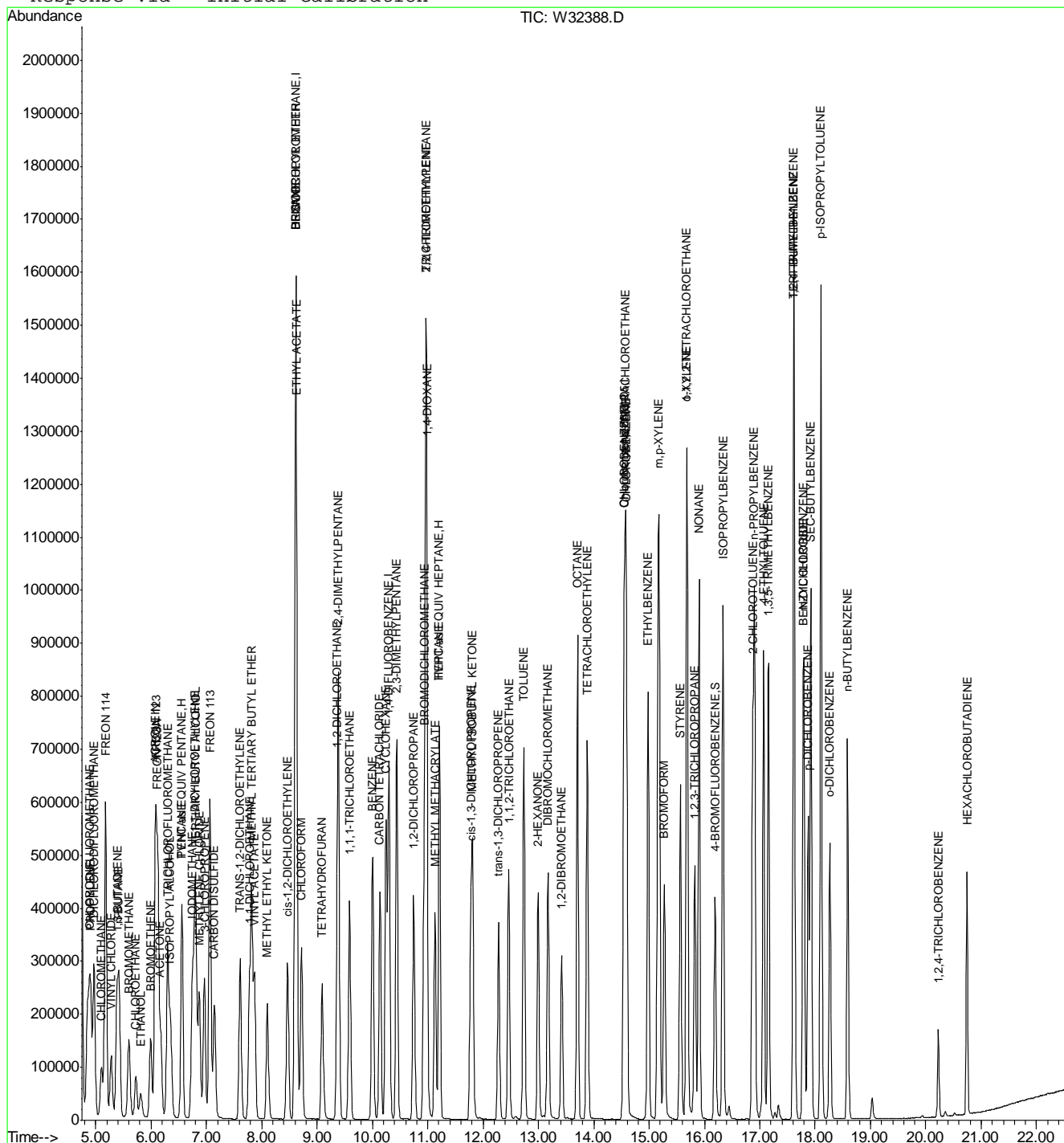
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
----------	------	------	----------	------	------	--------

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32388.D MW1322.M Tue Aug 16 08:56:10 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32388.D Vial: 3
Acq On : 23 Jun 2011 11:14 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: MW1322.RES

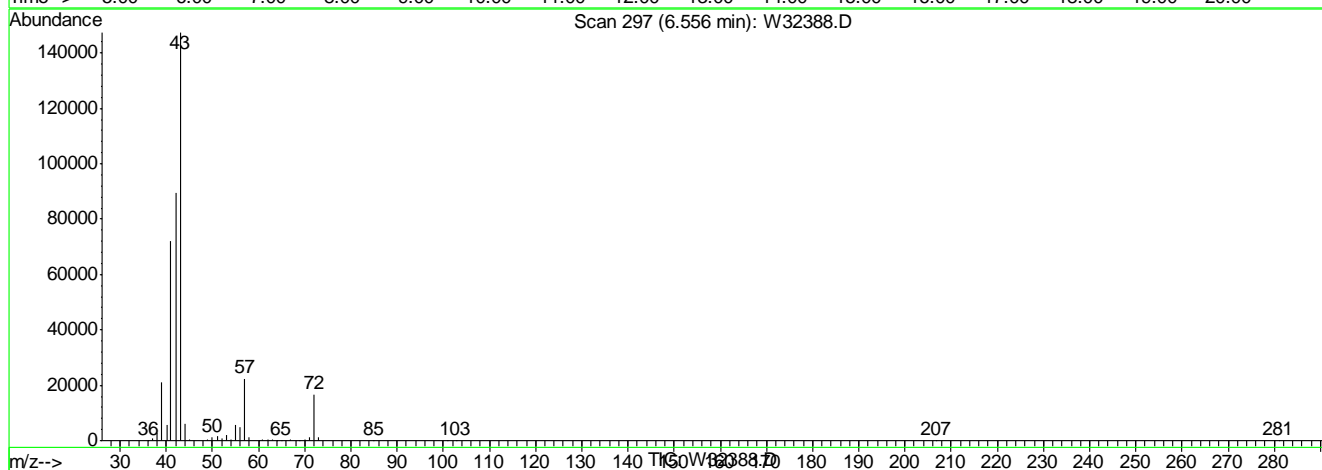
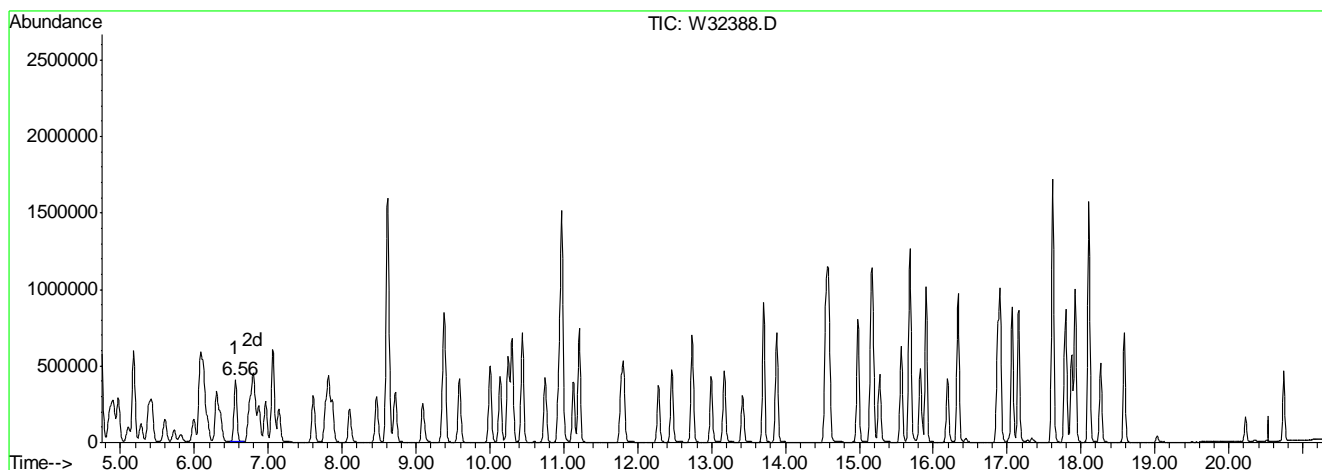
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32388.D Vial: 3
Acq On : 23 Jun 2011 11:14 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 9.90PPBV m

response 1120092

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	1.40	0.10#
------	------	-------

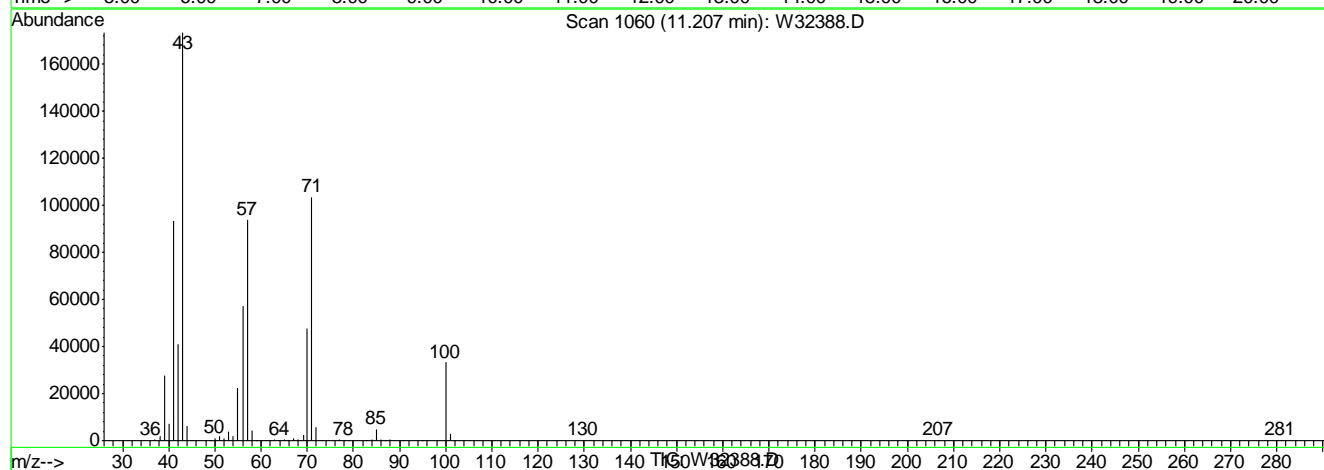
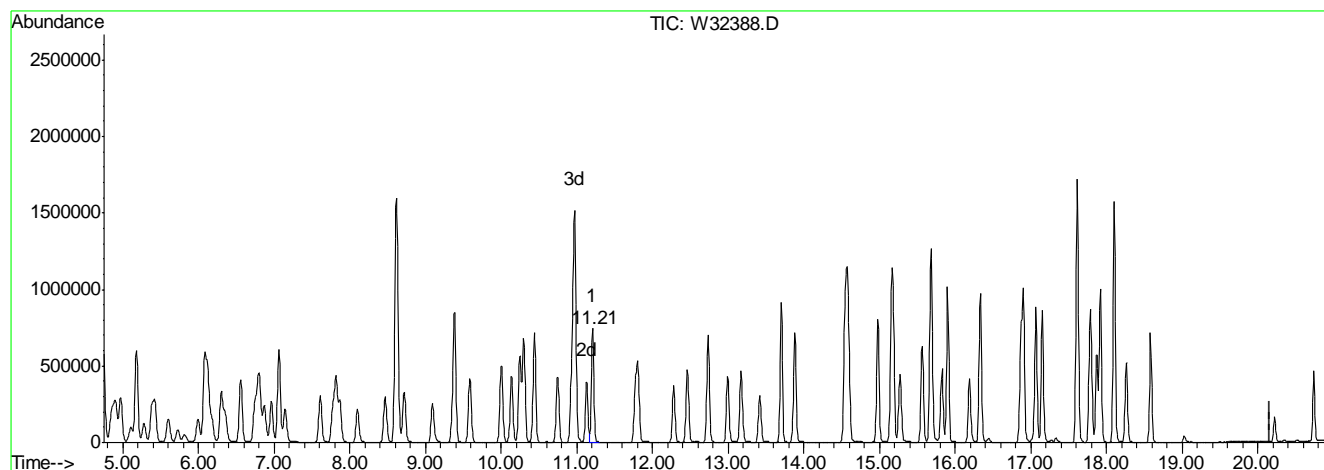
0.00	1.00	0.08#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32388.D Vial: 3
Acq On : 23 Jun 2011 11:14 am Operator: YOUMINH
Sample : BSD Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 10.43PPBV m

response 1704159

Signal	Exp%	Act%
TIC	100	100
0.00	0.90	0.07#
0.00	0.70	0.06#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23019.D Vial: 3
 Acq On : 24 Jun 2011 10:13 am Operator: yunxiac
 Sample : BS Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 08:49:37 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.31	128	98736	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.02	114	421198	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.31	82	206932	10.00	PPBV	-0.02
105) CHLOROBENZENE-D5 (a)	13.31	82	206932	10.00	PPBV	-0.02

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE 14.96 95 108147 4.95 PPBV -0.02
 Spiked Amount 5.000 Range 65 - 128 Recovery = 99.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.01	67	33469	8.32	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.08	85	302737	8.17	PPBV	98
6) PROPYLENE	4.03	41	139669	8.50	PPBV	99
7) FREON 114	4.23	85	293823	7.24	PPBV	99
8) CHLOROMETHANE	4.18	50	145995	8.80	PPBV	99
9) VINYL CHLORIDE	4.31	62	145907	9.25	PPBV	100
10) 1,3-BUTADIENE	4.39	54	109652	9.20	PPBV	95
11) n-BUTANE	4.41	43	236200	8.40	PPBV	98
12) BROMOMETHANE	4.56	94	115871	7.94	PPBV	100
13) CHLOROETHANE	4.66	64	73261	9.40	PPBV	98
16) FREON 123	4.95	83	278965	9.13	PPBV	100
17) FREON 123A	4.99	117	143285	8.80	PPBV	87
18) TRICHLOROFLUOROMETHANE	5.14	101	279673	8.12	PPBV	100
19) ISOPROPYL ALCOHOL	5.19	45	214910	8.93	PPBV	99
20) ACETONE	5.03	58	48455	8.35	PPBV #	87
21) PENTANE	5.33	42	166289	8.54	PPBV	98
22) TVHC as EQUIV PENTANE	5.33	TIC	741938m	7.70	PPBV	
23) IODOMETHANE	5.52	142	294800	8.12	PPBV	96
24) 1,1-DICHLOROETHYLENE	5.57	96	103938	7.71	PPBV	91
25) CARBON DISULFIDE	5.87	76	327844	8.94	PPBV	98
26) ETHANOL	4.74	45	53102	7.74	PPBV	98
27) BROMOETHENE	4.88	106	112690	8.27	PPBV	99
29) METHYLENE CHLORIDE	5.66	84	103352	7.38	PPBV	91
30) 3-CHLOROPROPENE	5.72	76	57749	9.90	PPBV #	84
31) FREON 113	5.81	151	162052	7.22	PPBV	96
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	111681	8.92	PPBV	93
33) TERTIARY BUTYL ALCOHOL	5.57	59	238006	10.00	PPBV	97
34) METHYL TERTIARY BUTYL ETHER	6.48	73	247591	8.67	PPBV	96
35) TETRAHYDROFURAN	7.73	72	46873	9.46	PPBV #	90
36) HEXANE	7.24	57	204252	9.20	PPBV	96
37) VINYL ACETATE	6.58	86	23595	10.82	PPBV #	69
38) 1,1-DICHLOROETHANE	6.47	63	229900	9.61	PPBV	99
39) METHYL ETHYL KETONE	6.77	72	45488	9.53	PPBV	98
40) cis-1,2-DICHLOROETHYLENE	7.19	96	120059	9.62	PPBV	93
41) DIISOPROPYL ETHER	7.24	45	365200	9.87	PPBV	99
42) ETHYL ACETATE	7.31	61	30855	9.77	PPBV #	89
44) CHLOROFORM	7.40	83	244245	9.53	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.98	57	255136	9.95	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.25	97	227604	9.54	PPBV	98
47) CARBON TETRACHLORIDE	8.82	117	235217	8.90	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W23019.D M3W886.M Tue Aug 16 09:03:25 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23019.D Vial: 3
 Acq On : 24 Jun 2011 10:13 am Operator: yunxiac
 Sample : BS Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 08:49:37 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

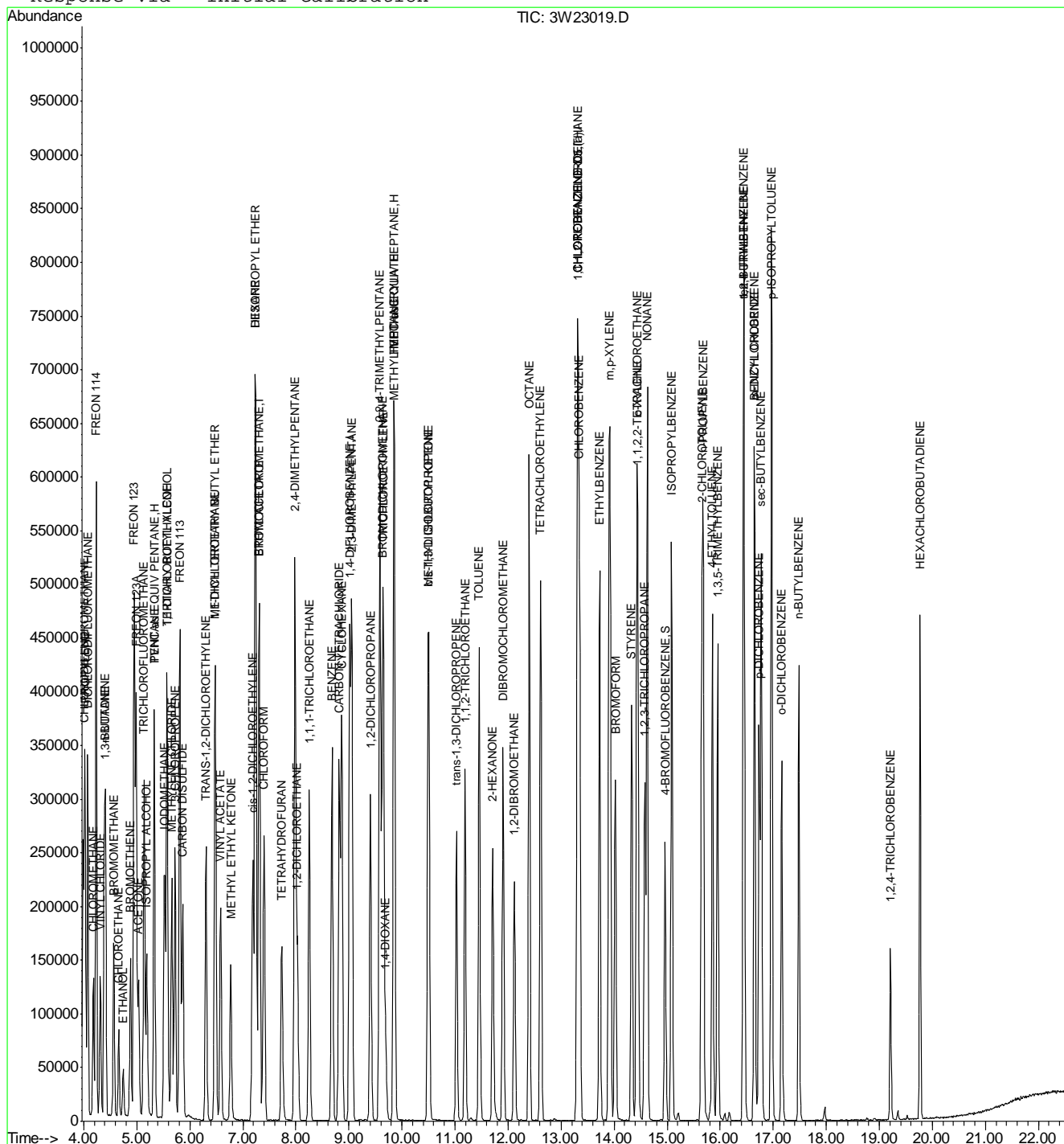
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DICHLOROETHANE	8.03	62	154919	10.23	PPBV	99
50) BENZENE	8.68	78	363108	9.79	PPBV	99
51) CYCLOHEXANE	8.87	69	58862	8.65	PPBV	95
52) 2,3-DIMETHYLPENTANE	9.05	71	86400	8.80	PPBV	92
53) TRICHLOROETHYLENE	9.65	95	148952	9.38	PPBV	96
54) 1,2-DICHLOROPROPANE	9.41	63	147112	10.61	PPBV	99
57) BROMODICHLOROMETHANE	9.63	83	247204	10.12	PPBV	100
58) 2,2,4-TRIMETHYLPENTANE	9.58	57	660634	10.30	PPBV	100
59) 1,4-DIOXANE	9.69	88	60463	9.79	PPBV	97
60) HEPTANE	9.85	43	280213	10.52	PPBV	94
61) TVHC as EQUIV HEPTANE	9.85	TIC	1539755m	9.95	PPBV	
62) METHYL METHACRYLATE	9.86	69	96501	9.74	PPBV #	87
63) METHYL ISOBUTYL KETONE	10.49	58	93129	11.34	PPBV	91
64) cis-1,3-DICHLOROPROPENE	10.51	75	195401	10.55	PPBV	96
65) TOLUENE	11.46	92	230116	9.88	PPBV	99
66) trans-1,3-DICHLOROPROPENE	11.03	75	185080	10.47	PPBV	97
67) 1,1,2-TRICHLOROETHANE	11.19	83	118903	10.25	PPBV	97
69) 2-HEXANONE	11.71	58	115217	10.58	PPBV	87
71) TETRACHLOROETHYLENE	12.62	164	148592	8.35	PPBV	99
72) DIBROMOCHLOROMETHANE	11.91	129	227988	9.34	PPBV	100
73) 1,2-DIBROMOETHANE	12.12	107	192079	9.96	PPBV	99
74) OCTANE	12.40	43	358167	11.01	PPBV	92
75) 1,1,1,2-TETRACHLOROETHANE	13.32	131	154608	9.52	PPBV	98
76) CHLOROBENZENE	13.35	112	271189	8.84	PPBV	97
77) ETHYLBENZENE	13.73	91	459512	9.47	PPBV	99
78) m,p-XYLENE	13.92	106	331329	18.64	PPBV	100
79) o-XYLENE	14.43	106	160817	9.60	PPBV	98
80) STYRENE	14.33	104	234823	9.61	PPBV	99
81) NONANE	14.63	43	341189	12.07	PPBV	94
82) BROMOFORM	14.02	173	196152	9.31	PPBV	99
84) 1,1,2,2-TETRACHLOROETHANE	14.45	83	227361	10.43	PPBV	99
85) 1,2,3-TRICHLOROPROPANE	14.58	75	179055	10.10	PPBV	96
86) ISOPROPYLBENZENE	15.08	105	455257	9.67	PPBV	99
88) 2-CHLOROTOLUENE	15.65	126	109592	9.47	PPBV	100
89) n-PROPYLBENZENE	15.68	120	110258	9.21	PPBV	99
90) 4-ETHYLTOLUENE	15.86	105	383155	10.22	PPBV	99
91) 1,3,5-TRIMETHYLBENZENE	15.95	105	307656	10.13	PPBV	99
93) tert-BUTYLBENZENE	16.44	134	70998	9.91	PPBV	96
94) 1,2,4-TRIMETHYLBENZENE	16.45	105	284934	10.43	PPBV	99
95) m-DICHLOROBENZENE	16.65	146	194540	9.56	PPBV	99
96) BENZYL CHLORIDE	16.65	91	227933	10.13	PPBV	98
97) p-DICHLOROBENZENE	16.74	146	190348	9.84	PPBV	99
98) sec-BUTYLBENZENE	16.77	134	82320	9.30	PPBV	94
99) p-ISOPROPYLTOLUENE	16.97	134	83707	9.26	PPBV	99
100) o-DICHLOROBENZENE	17.16	146	172496	9.97	PPBV	99
101) n-BUTYLBENZENE	17.49	134	68642	9.34	PPBV #	91
103) HEXACHLOROBUTADIENE	19.77	225	98920	10.06	PPBV	99
104) 1,2,4-TRICHLOROBENZENE	19.21	180	60352	9.09	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W23019.D M3W886.M Tue Aug 16 09:03:25 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23019.D Vial: 3
Acq On : 24 Jun 2011 10:13 am Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 1:38 2011 Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration

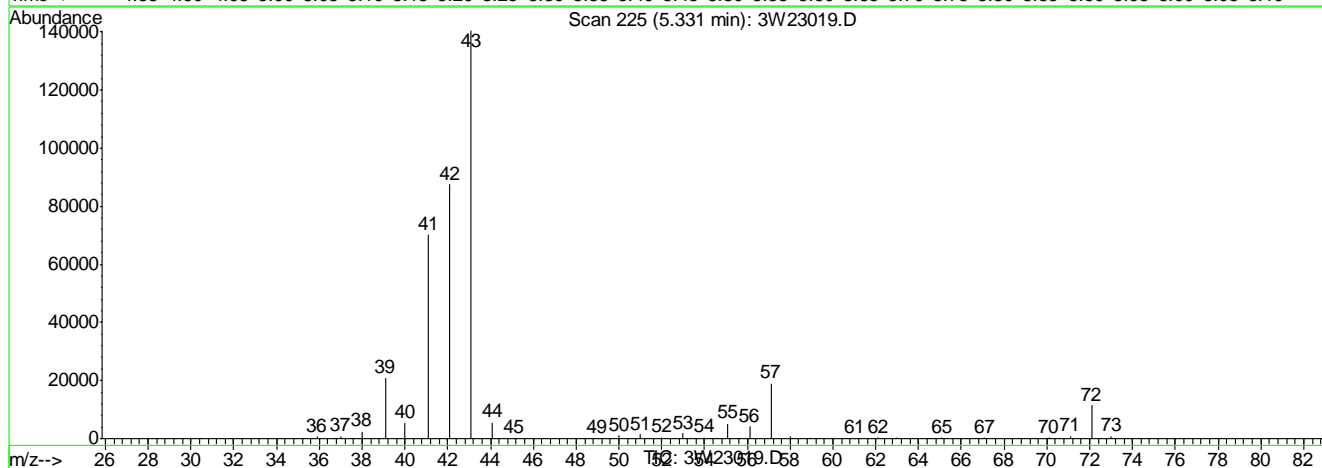
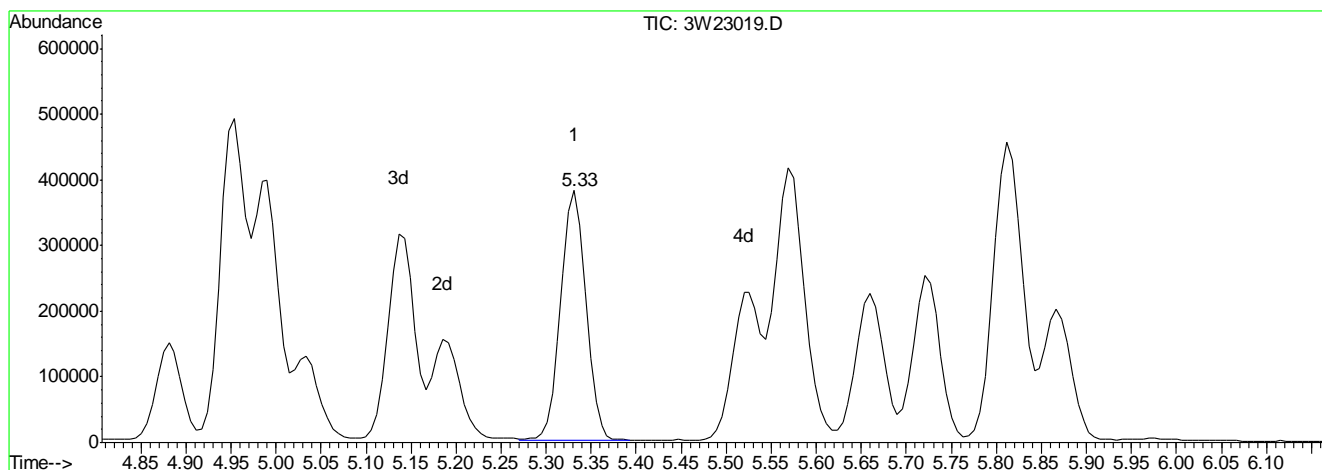


6.3.7

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23019.D Vial: 3
Acq On : 24 Jun 2011 10:13 am Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 1:38 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.33min 7.70PPBV m

response 741938

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	1.20	0.11#
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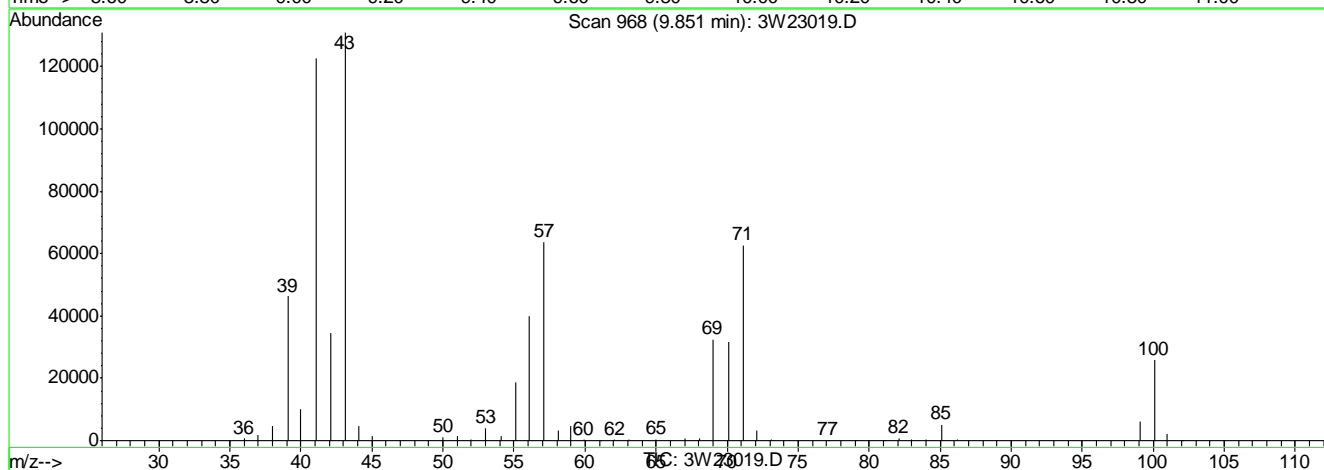
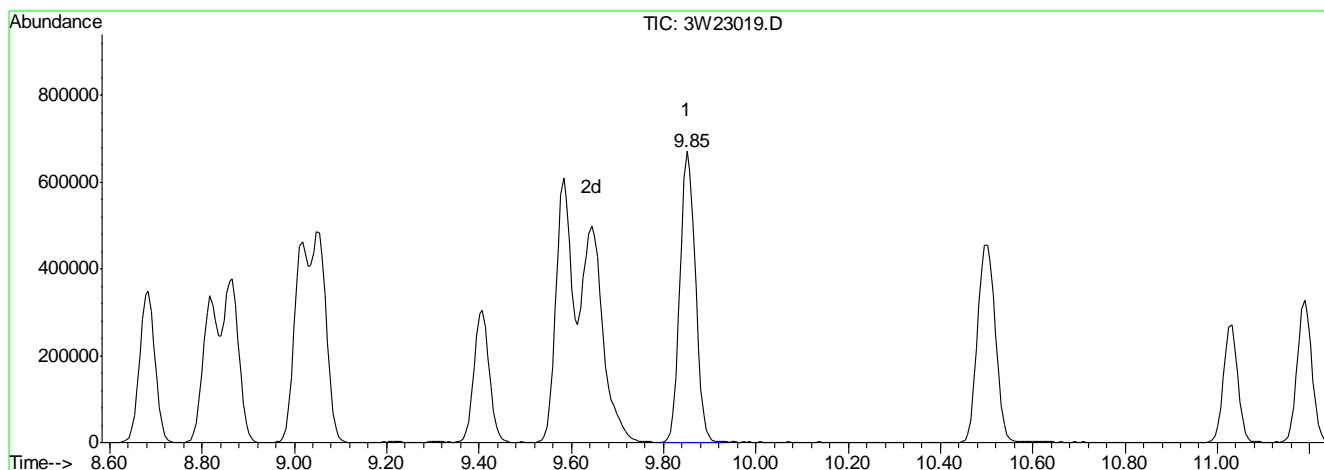
0.00	1.00	0.11#
------	------	-------

0.00	0.00	0.00
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Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23019.D Vial: 3
Acq On : 24 Jun 2011 10:13 am Operator: yunxiac
Sample : BS Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 1:38 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.85min 9.95PPBV m

response 1539755

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.80	0.05#
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0.00	0.70	0.05#
------	------	-------

0.00	0.00	0.00
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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23020.D Vial: 3
 Acq On : 24 Jun 2011 11:06 am Operator: yunxiac
 Sample : BSD Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 08:49:40 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.31	128	97677	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.01	114	393223	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.31	82	196200	10.00	PPBV	-0.02
105) CHLOROBENZENE-D5 (a)	13.31	82	196200	10.00	PPBV	-0.02

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE 14.96 95 103695 5.01 PPBV -0.02
 Spiked Amount 5.000 Range 65 - 128 Recovery = 100.20%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	4.01	67	33039	8.31	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.07	85	295137	8.05	PPBV	99
6) PROPYLENE	4.03	41	136832	8.42	PPBV	99
7) FREON 114	4.23	85	283165	7.06	PPBV	99
8) CHLOROMETHANE	4.18	50	138848	8.46	PPBV	99
9) VINYL CHLORIDE	4.31	62	138730	8.89	PPBV	99
10) 1,3-BUTADIENE	4.39	54	106179	9.01	PPBV	95
11) n-BUTANE	4.41	43	229663	8.25	PPBV	97
12) BROMOMETHANE	4.56	94	113020	7.83	PPBV	100
13) CHLOROETHANE	4.66	64	69155	8.97	PPBV	97
16) FREON 123	4.95	83	273647	9.06	PPBV	99
17) FREON 123A	4.99	117	138248	8.58	PPBV	87
18) TRICHLOROFLUOROMETHANE	5.14	101	273454	8.02	PPBV	99
19) ISOPROPYL ALCOHOL	5.19	45	208991	8.78	PPBV	99
20) ACETONE	5.03	58	45415	7.91	PPBV #	88
21) PENTANE	5.33	42	160922	8.35	PPBV	98
22) TVHC as EQUIV PENTANE	5.33	TIC	720455m	7.56	PPBV	
23) IODOMETHANE	5.52	142	286982	7.99	PPBV	96
24) 1,1-DICHLOROETHYLENE	5.56	96	102882	7.71	PPBV	93
25) CARBON DISULFIDE	5.87	76	323697	8.92	PPBV	98
26) ETHANOL	4.74	45	50800	7.48	PPBV	98
27) BROMOETHENE	4.88	106	109707	8.13	PPBV	99
29) METHYLENE CHLORIDE	5.66	84	99276	7.17	PPBV	89
30) 3-CHLOROPROPENE	5.72	76	55996	9.70	PPBV #	83
31) FREON 113	5.81	151	155789	7.02	PPBV	94
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	109804	8.86	PPBV	94
33) TERTIARY BUTYL ALCOHOL	5.57	59	229092	9.73	PPBV	97
34) METHYL TERTIARY BUTYL ETHE	6.48	73	234151	8.28	PPBV	96
35) TETRAHYDROFURAN	7.73	72	43157	8.80	PPBV #	87
36) HEXANE	7.23	57	201695	9.19	PPBV	97
37) VINYL ACETATE	6.58	86	21476	9.96	PPBV #	61
38) 1,1-DICHLOROETHANE	6.47	63	226867	9.59	PPBV	99
39) METHYL ETHYL KETONE	6.77	72	42800	9.06	PPBV	94
40) cis-1,2-DICHLOROETHYLENE	7.18	96	117049	9.48	PPBV	93
41) DIISOPROPYL ETHER	7.24	45	345167	9.43	PPBV	98
42) ETHYL ACETATE	7.31	61	29955	9.58	PPBV #	92
44) CHLOROFORM	7.40	83	236378	9.32	PPBV	98
45) 2,4-DIMETHYLPENTANE	7.98	57	251436	9.91	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.25	97	223456	9.47	PPBV	98
47) CARBON TETRACHLORIDE	8.82	117	231886	8.87	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W23020.D M3W886.M

Tue Aug 16 09:03:27 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23020.D Vial: 3
 Acq On : 24 Jun 2011 11:06 am Operator: yunxiac
 Sample : BSD Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 08:49:40 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

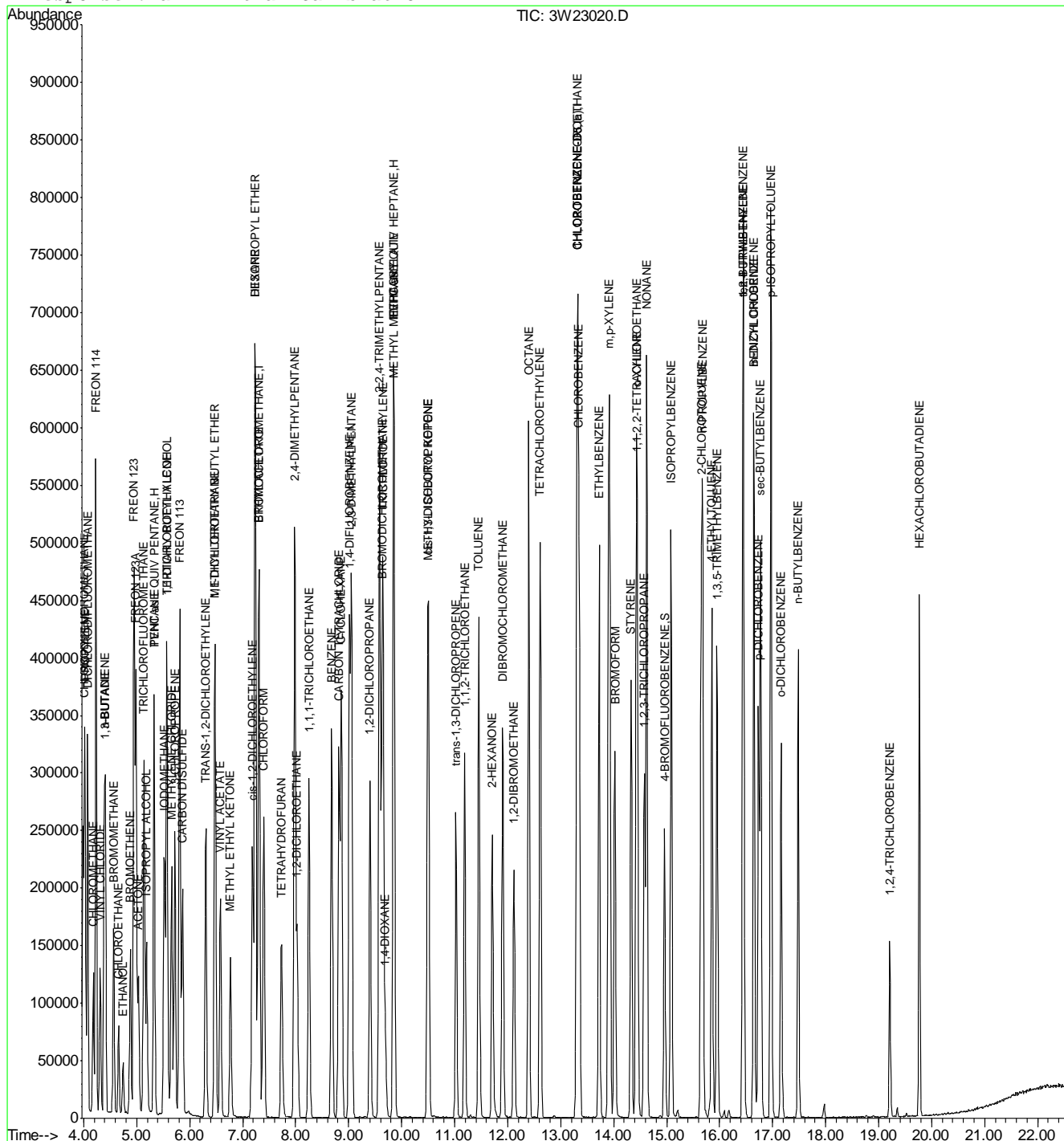
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DICHLOROETHANE	8.03	62	150709	10.06	PPBV	99
50) BENZENE	8.68	78	353170	10.20	PPBV	99
51) CYCLOHEXANE	8.86	69	57766	9.10	PPBV	95
52) 2,3-DIMETHYLPENTANE	9.05	71	84046	9.17	PPBV	92
53) TRICHLOROETHYLENE	9.65	95	145192	9.80	PPBV	97
54) 1,2-DICHLOROPROPANE	9.41	63	142121	10.98	PPBV	97
57) BROMODICHLOROMETHANE	9.63	83	240573	10.55	PPBV	100
58) 2,2,4-TRIMETHYLPENTANE	9.58	57	646812	10.80	PPBV	99
59) 1,4-DIOXANE	9.69	88	58871	10.21	PPBV	94
60) HEPTANE	9.85	43	279698	11.25	PPBV	93
61) TVHC as EQUIV HEPTANE	9.85	TIC	1502487m	10.40	PPBV	
62) METHYL METHACRYLATE	9.86	69	91831	9.93	PPBV #	84
63) METHYL ISOBUTYL KETONE	10.49	58	89942	11.73	PPBV #	90
64) cis-1,3-DICHLOROPROPENE	10.51	75	190692	11.03	PPBV	95
65) TOLUENE	11.46	92	223064	10.26	PPBV	99
66) trans-1,3-DICHLOROPROPENE	11.03	75	183974	11.15	PPBV	98
67) 1,1,2-TRICHLOROETHANE	11.19	83	117104	10.82	PPBV	96
69) 2-HEXANONE	11.71	58	112501	10.90	PPBV #	86
71) TETRACHLOROETHYLENE	12.61	164	145229	8.60	PPBV	98
72) DIBROMOCHLOROMETHANE	11.91	129	221152	9.56	PPBV	98
73) 1,2-DIBROMOETHANE	12.12	107	187300	10.24	PPBV	99
74) OCTANE	12.40	43	350534	11.37	PPBV	93
75) 1,1,1,2-TETRACHLOROETHANE	13.32	131	150273	9.75	PPBV	97
76) CHLOROBENZENE	13.35	112	264709	9.10	PPBV	97
77) ETHYLBENZENE	13.73	91	447837	9.74	PPBV	100
78) m,p-XYLENE	13.92	106	321362	19.07	PPBV	99
79) o-XYLENE	14.43	106	154496	9.73	PPBV	98
80) STYRENE	14.33	104	228774	9.88	PPBV	99
81) NONANE	14.62	43	333074	12.43	PPBV	95
82) BROMOFORM	14.02	173	192764	9.65	PPBV	99
84) 1,1,2,2-TETRACHLOROETHANE	14.45	83	214379	10.37	PPBV	99
85) 1,2,3-TRICHLOROPROPANE	14.58	75	168354	10.02	PPBV	96
86) ISOPROPYLBENZENE	15.08	105	428752	9.60	PPBV	99
88) 2-CHLOROTOLUENE	15.65	126	107264	9.77	PPBV	98
89) n-PROPYLBENZENE	15.68	120	104378	9.20	PPBV	99
90) 4-ETHYLTOLUENE	15.86	105	360206	10.14	PPBV	99
91) 1,3,5-TRIMETHYLBENZENE	15.95	105	285953	9.93	PPBV	100
93) tert-BUTYLBENZENE	16.44	134	64751	9.53	PPBV	98
94) 1,2,4-TRIMETHYLBENZENE	16.45	105	269238	10.40	PPBV	99
95) m-DICHLOROBENZENE	16.65	146	189909	9.85	PPBV	100
96) BENZYL CHLORIDE	16.65	91	216484	10.15	PPBV	97
97) p-DICHLOROBENZENE	16.73	146	185222	10.10	PPBV	99
98) sec-BUTYLBENZENE	16.77	134	77880	9.28	PPBV	94
99) p-ISOPROPYLTOLUENE	16.97	134	80350	9.37	PPBV	99
100) o-DICHLOROBENZENE	17.16	146	166980	10.18	PPBV	99
101) n-BUTYLBENZENE	17.49	134	65187	9.36	PPBV #	89
103) HEXACHLOROBUTADIENE	19.77	225	94588	10.15	PPBV	99
104) 1,2,4-TRICHLOROBENZENE	19.21	180	57152	9.08	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W23020.D M3W886.M Tue Aug 16 09:03:27 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23020.D Vial: 3
Acq On : 24 Jun 2011 11:06 am Operator: yunxiac
Sample : BSD Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 1:38 2011 Quant Results File: M3W886.RES

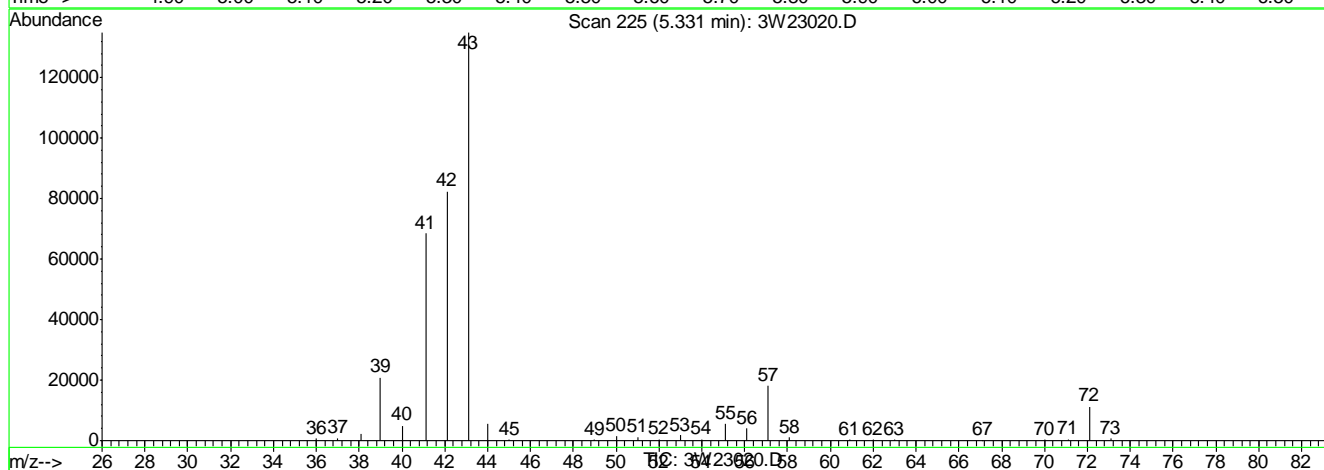
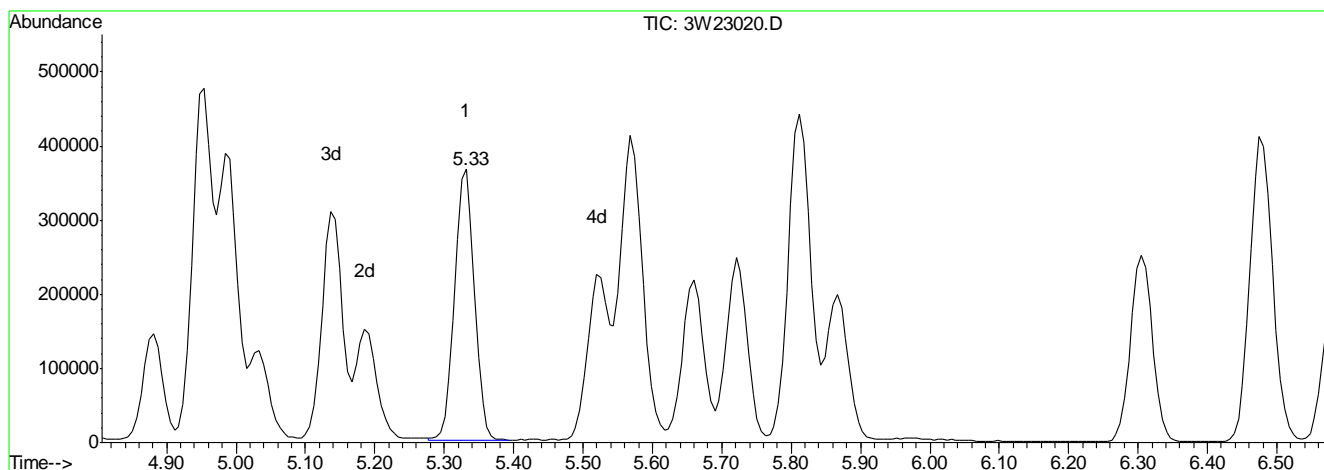
Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23020.D Vial: 3
 Acq On : 24 Jun 2011 11:06 am Operator: yunxiac
 Sample : BSD Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 30 1:38 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.33min 7.56PPBV m

response 720455

Signal Exp% Act%

TIC 100 100

0.00 1.20 0.11#

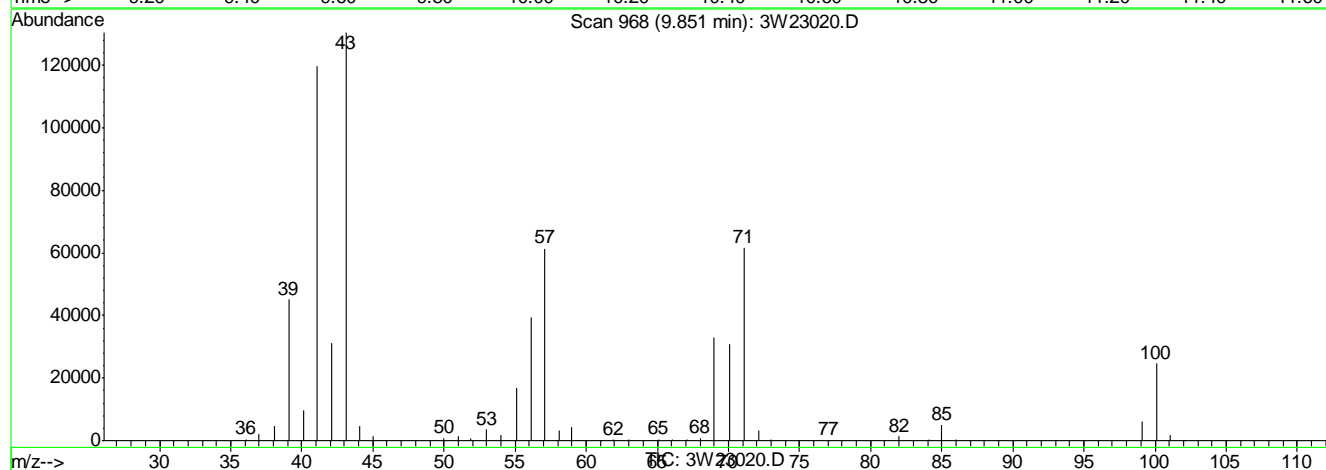
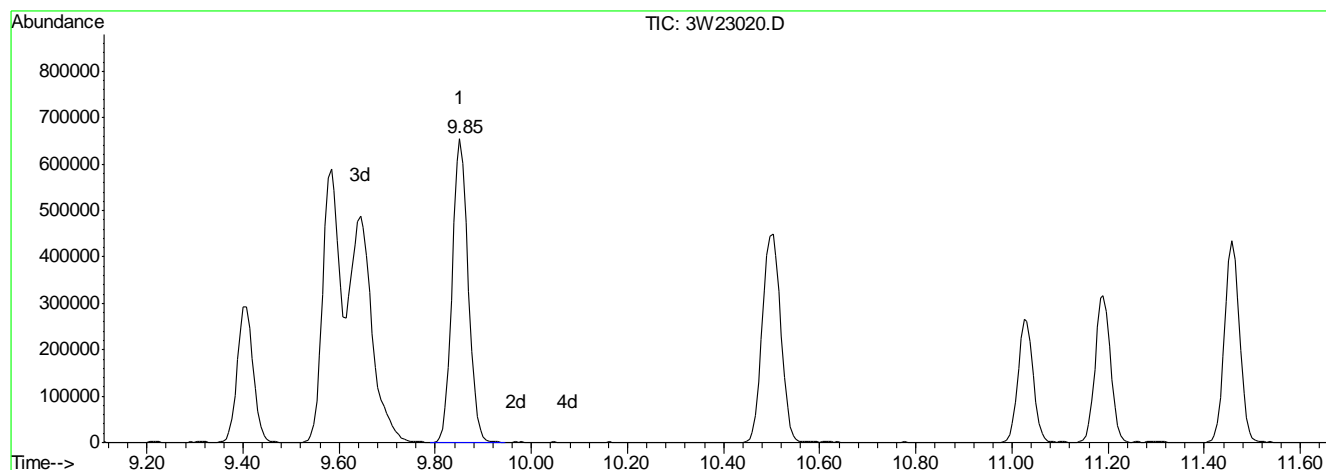
0.00 1.00 0.09#

0.00 0.00 0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23020.D Vial: 3
 Acq On : 24 Jun 2011 11:06 am Operator: yunxiac
 Sample : BSD Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 30 1:38 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.85min 10.40PPBV m

response 1502487

Signal	Exp%	Act%
TIC	100	100
0.00	0.80	0.05#
0.00	0.70	0.04#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32812.D
Acq On : 20 Jul 2011 5:31 pm
Operator : YOUMINH
Sample : JA81330-5DUP
Misc : MS15514,VW1341,400,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 00:25:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.598	128	126295	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	600877	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	251938	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	251347	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.164	95	142257	5.23	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	104.60%

Target Compounds

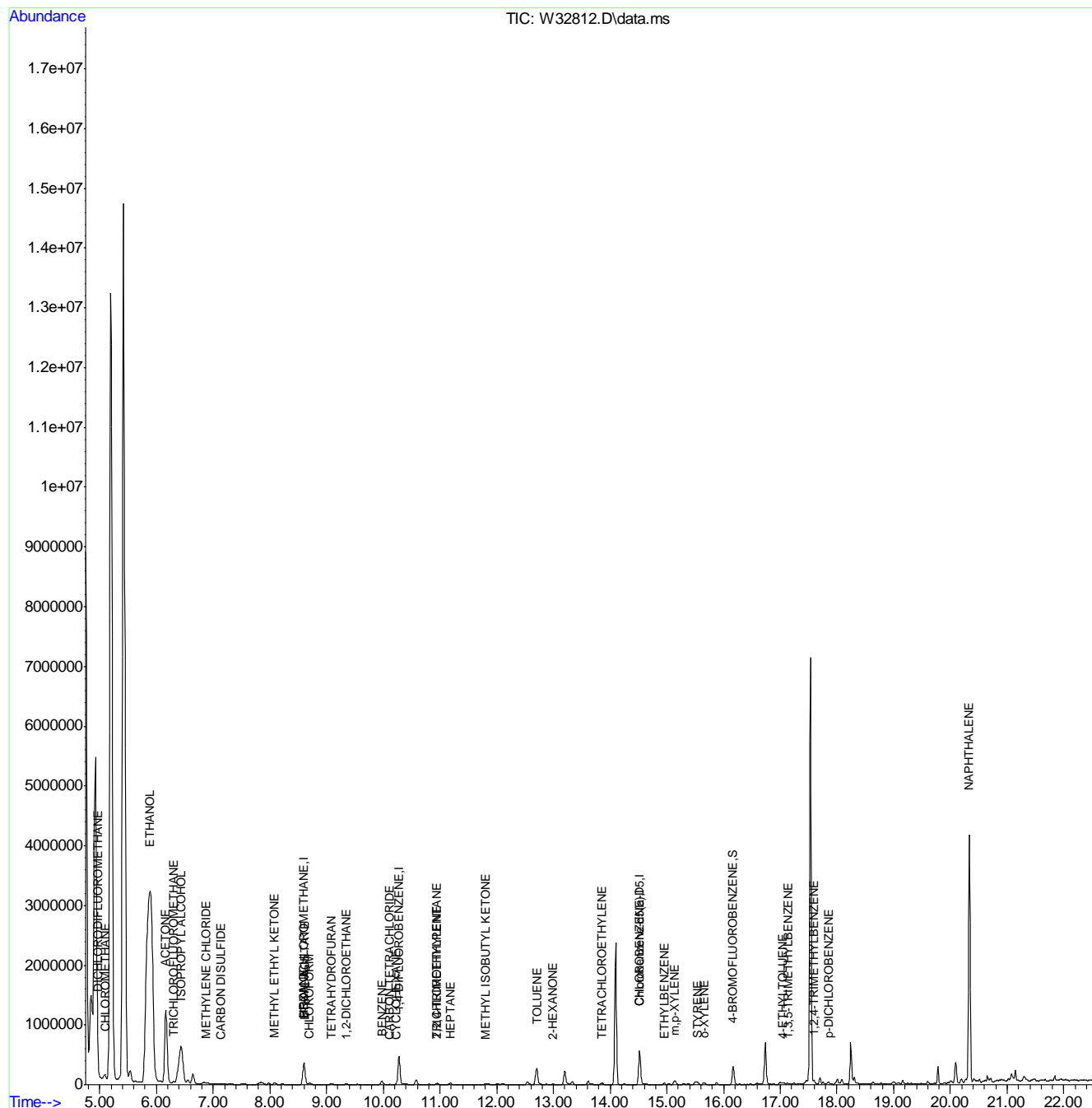
						Qvalue
5) DICHLORODIFLUOROMETHANE	4.965	85	89957	2.42	PPBV	99
8) CHLOROMETHANE	5.099	52	6035	1.26	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.300	101	36710	1.04	PPBV	100
19) ISOPROPYL ALCOHOL	6.434	45	2204052	71.61	PPBV	99
20) ACETONE	6.160	58	760495	94.12	PPBV #	85
26) CARBON DISULFIDE	7.129	76	5501	0.14	PPBV	87
27) ETHANOL	5.885	45	14148911	1750.61	PPBV	98
30) METHYLENE CHLORIDE	6.867	84	3812	0.25	PPBV	93
36) TETRAHYDROFURAN	9.086	72	3706	0.50	PPBV #	73
37) HEXANE	8.598	57	14337	0.52	PPBV #	85
40) METHYL ETHYL KETONE	8.086	72	18576	2.45	PPBV #	60
43) ETHYL ACETATE	8.610	61	28996	5.92	PPBV #	1
45) CHLOROFORM	8.702	83	25009	0.85	PPBV	97
48) CARBON TETRACHLORIDE	10.116	117	5498	0.18	PPBV	99
49) 1,2-DICHLOROETHANE	9.342	62	2946	0.17	PPBV	99
51) BENZENE	9.982	78	29001	0.63	PPBV	97
52) CYCLOHEXANE	10.226	84	6839	0.30	PPBV #	71
54) TRICHLOROETHYLENE	10.945	95	657	0.04	PPBV	84
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	18870	0.24	PPBV	90
62) HEPTANE	11.183	43	20136	0.68	PPBV	82
64) METHYL ISOBUTYL KETONE	11.799	43	10917	0.34	PPBV	98
66) TOLUENE	12.707	92	157346	5.12	PPBV	99
71) 2-HEXANONE	12.994	43	5331	0.21	PPBV	98
72) TETRACHLOROETHYLENE	13.853	164	3155	0.19	PPBV	96
78) ETHYLBENZENE	14.957	91	28898	0.58	PPBV	98
79) m,p-XYLENE	15.140	106	35314	1.82	PPBV	88
80) o-XYLENE	15.652	106	11745	0.63	PPBV	95
81) STYRENE	15.542	104	21978	0.83	PPBV	92
91) 4-ETHYLTOLUENE	17.048	105	8121	0.18	PPBV	94
92) 1,3,5-TRIMETHYLBENZENE	17.133	105	9786	0.27	PPBV	96
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	35524	1.07	PPBV #	34
98) p-DICHLOROBENZENE	17.852	146	20366	1.05	PPBV	96
107) NAPHTHALENE	20.334	128	4283434	569.10	PPBV	98

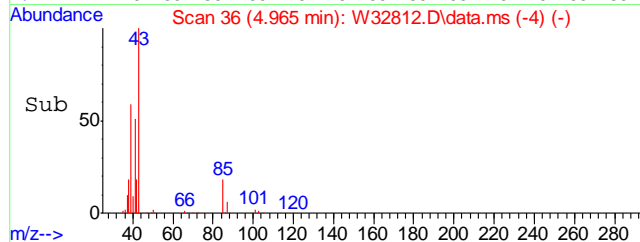
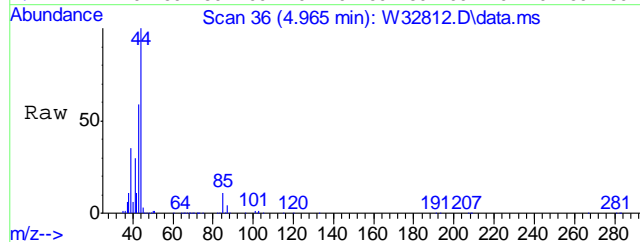
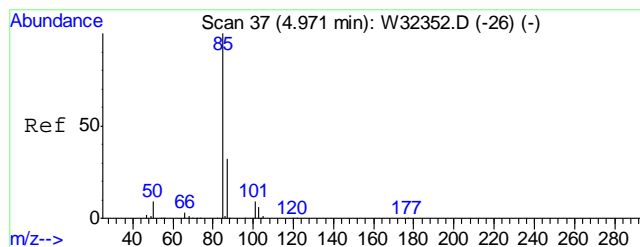
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1341\
Data File : W32812.D
Acq On : 20 Jul 2011 5:31 pm
Operator : YOUMINH
Sample : JA81330-5DUP
Misc : MS15514,VW1341,400,,,1
ALS Vial : 13 Sample Multiplier: 1

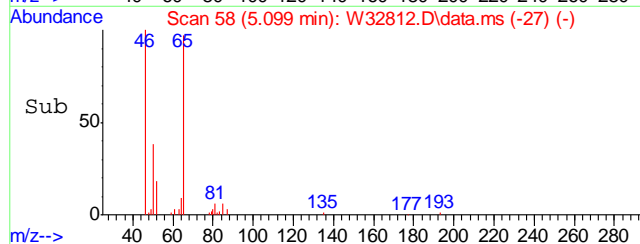
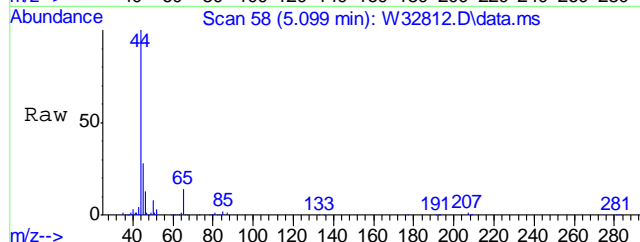
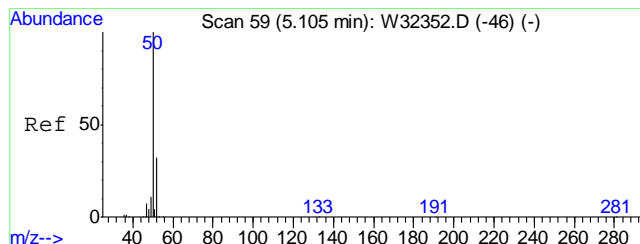
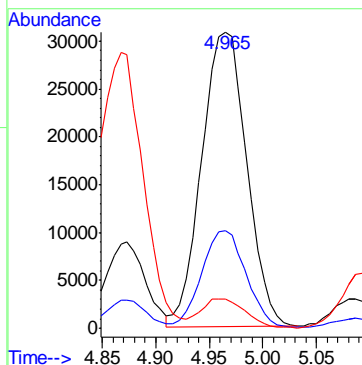
Quant Time: Aug 17 00:25:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





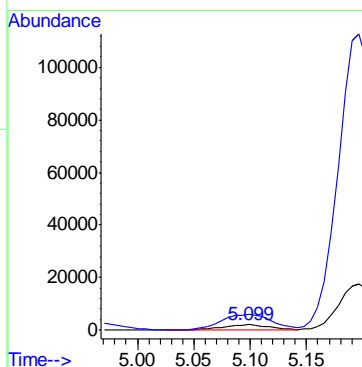
#5
DICHLORODIFLUOROMETHANE
Concen: 2.42 PPBV
RT: 4.965 min Scan# 36
Delta R.T. -0.006 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

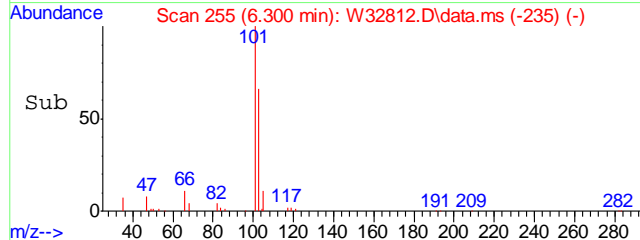
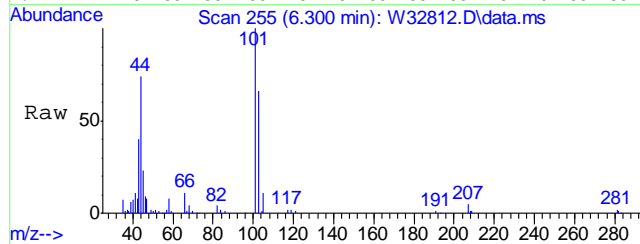
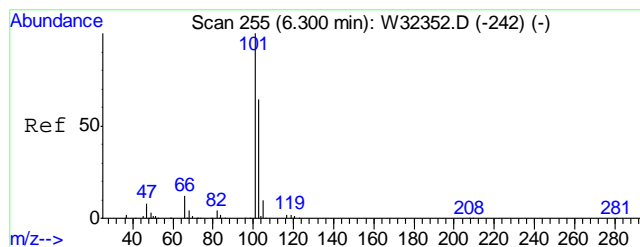
Tgt Ion:	85	Resp:	89957
Ion Ratio	Lower	Upper	
85	100		
87	32.5	12.0	52.0
50	9.6	0.0	30.7



#8
CHLOROMETHANE
Concen: 1.26 PPBV
RT: 5.099 min Scan# 58
Delta R.T. -0.006 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

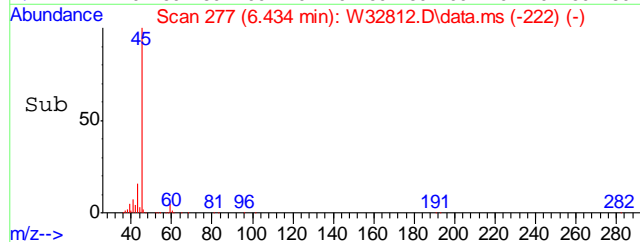
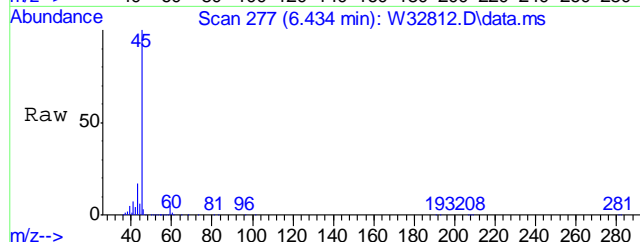
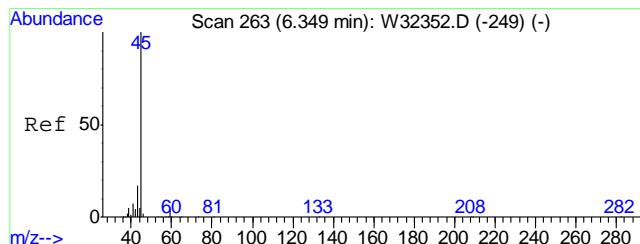
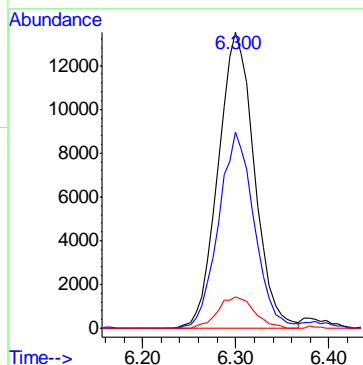
Tgt Ion:	52	Resp:	6035
Ion Ratio	Lower	Upper	
52	100		
50	287.5	268.6	308.6





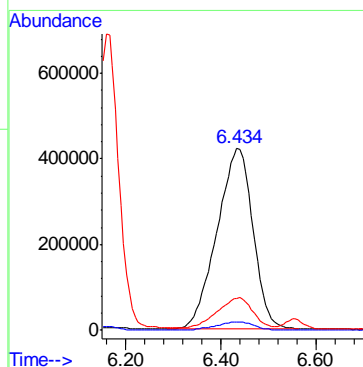
#18
TRICHLOROFLUOROMETHANE
Concen: 1.04 PPBV
RT: 6.300 min Scan# 255
Delta R.T. -0.000 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

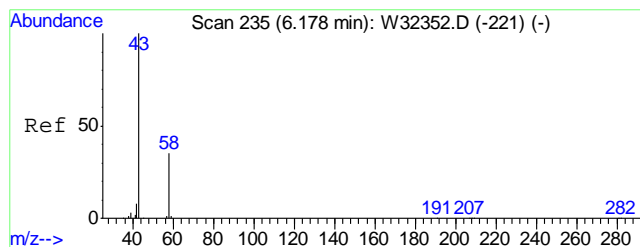
Tgt Ion:	101	Resp:	36710
Ion Ratio	Lower	Upper	
101	100		
103	65.1	44.9	84.9
105	10.7	0.0	30.4



#19
ISOPROPYL ALCOHOL
Concen: 71.61 PPBV
RT: 6.434 min Scan# 277
Delta R.T. 0.085 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

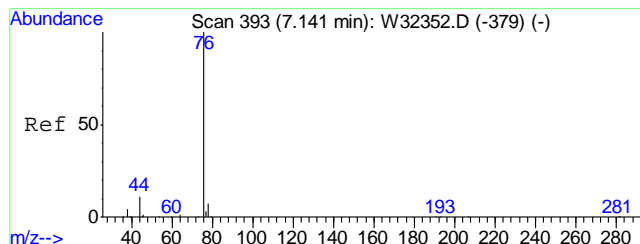
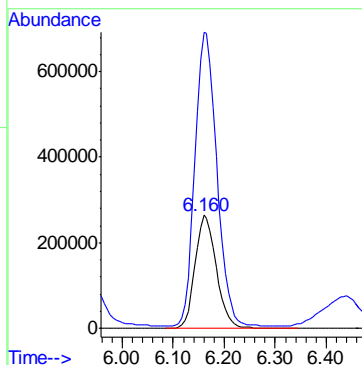
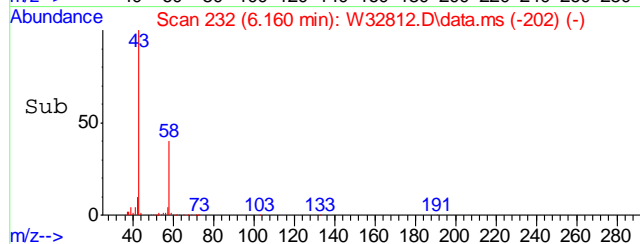
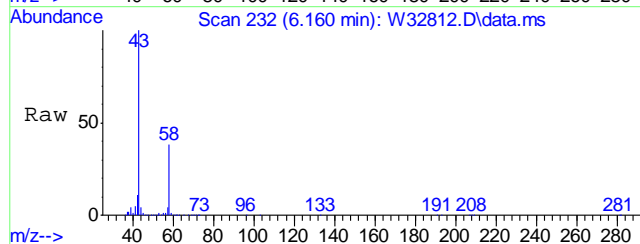
Tgt Ion:	45	Resp:	2204052
Ion Ratio	Lower	Upper	
45	100		
59	4.6	0.0	24.3
43	17.3	0.0	37.5





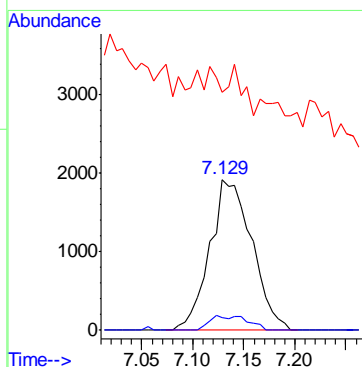
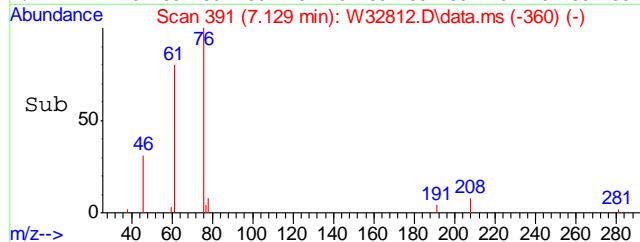
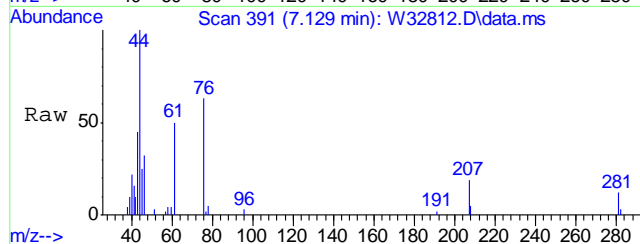
#20
ACETONE
Concen: 94.12 PPBV
RT: 6.160 min Scan# 232
Delta R.T. -0.018 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

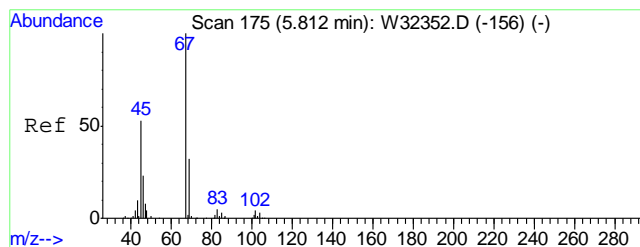
Tgt Ion: 58 Resp: 760495
Ion Ratio Lower Upper
58 100
43 268.4 277.6 317.6#



#26
CARBON DISULFIDE
Concen: 0.14 PPBV
RT: 7.129 min Scan# 391
Delta R.T. -0.012 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

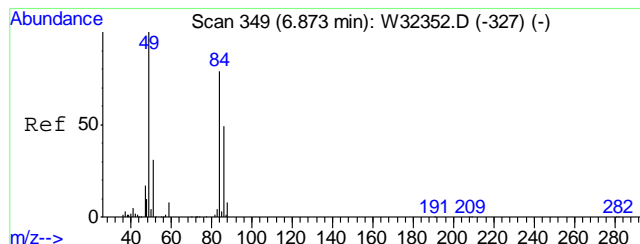
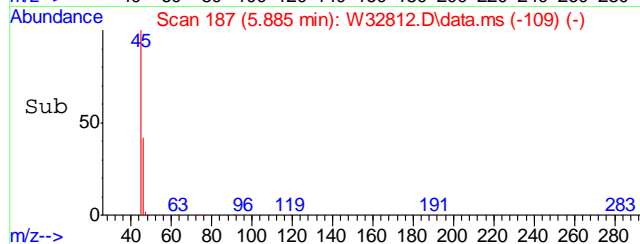
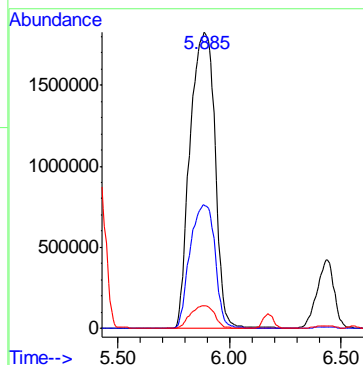
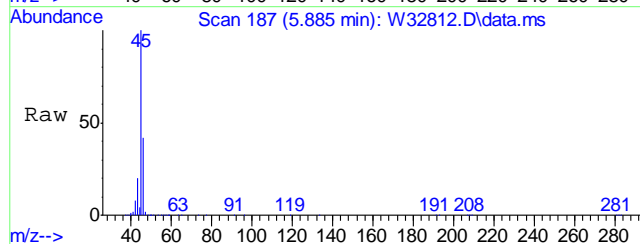
Tgt Ion: 76 Resp: 5501
Ion Ratio Lower Upper
76 100
78 4.5 0.0 28.9
44 5.9 0.0 31.0





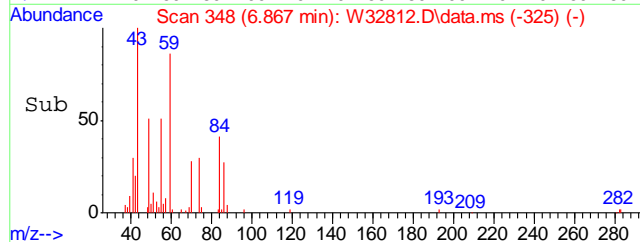
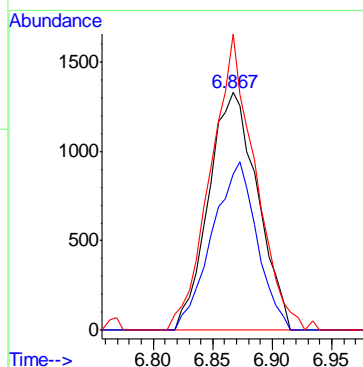
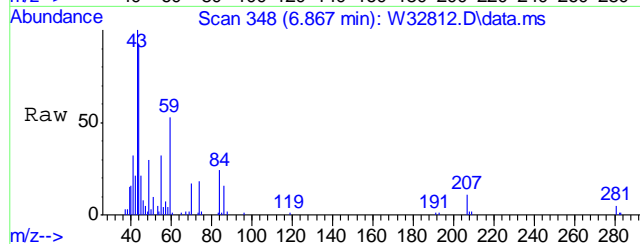
#27
ETHANOL
Concen: 1750.61 PPBV
RT: 5.885 min Scan# 187
Delta R.T. 0.073 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

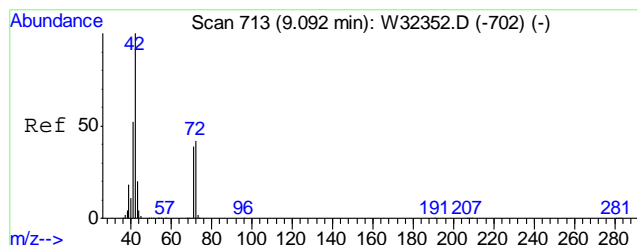
Tgt Ion: 45 Resp: 14148911
Ion Ratio Lower Upper
45 100
46 41.7 20.6 60.6
42 7.3 0.0 28.7



#30
METHYLENE CHLORIDE
Concen: 0.25 PPBV
RT: 6.867 min Scan# 348
Delta R.T. -0.006 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

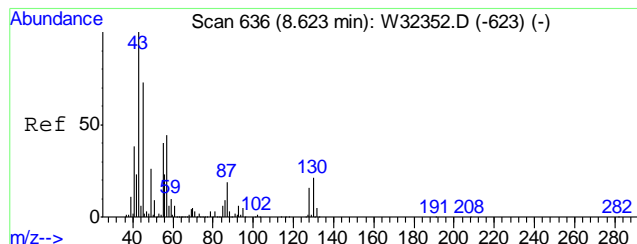
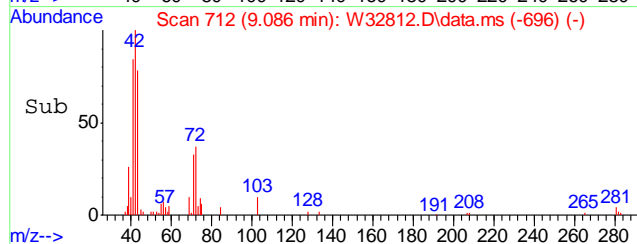
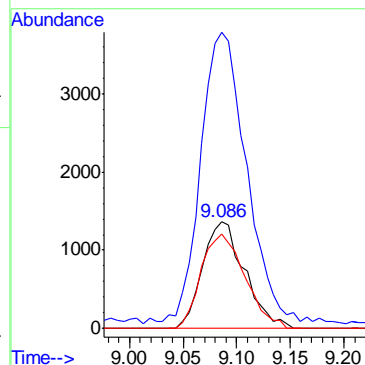
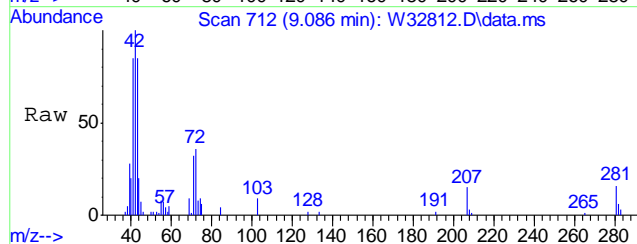
Tgt Ion: 84 Resp: 3812
Ion Ratio Lower Upper
84 100
86 65.2 42.9 82.9
49 113.4 0.0 324.2





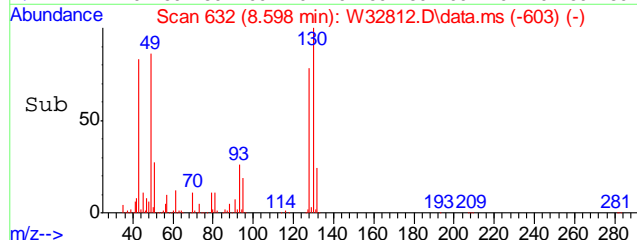
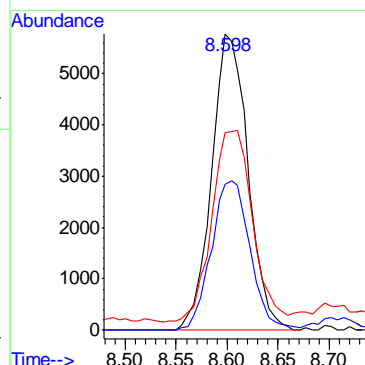
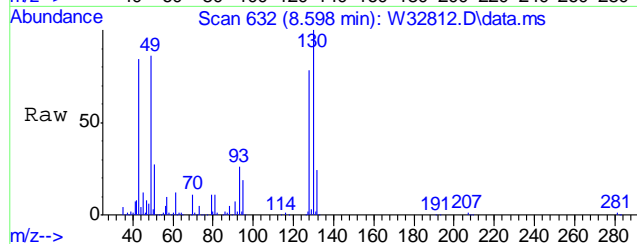
#36
TETRAHYDROFURAN
Concen: 0.50 PPBV
RT: 9.086 min Scan# 712
Delta R.T. -0.006 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

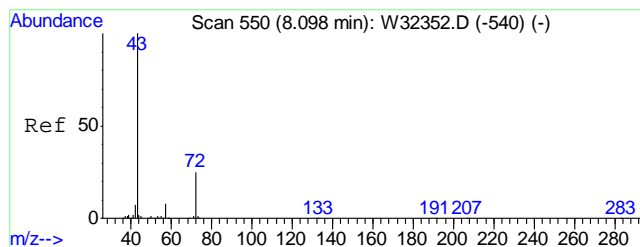
Tgt Ion:	72	Resp:	3706
Ion Ratio	Lower	Upper	
72	100		
42	302.5	220.0	260.0#
71	92.3	74.2	114.2



#37
HEXANE
Concen: 0.52 PPBV
RT: 8.598 min Scan# 632
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

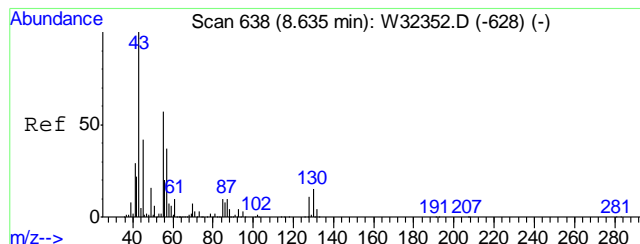
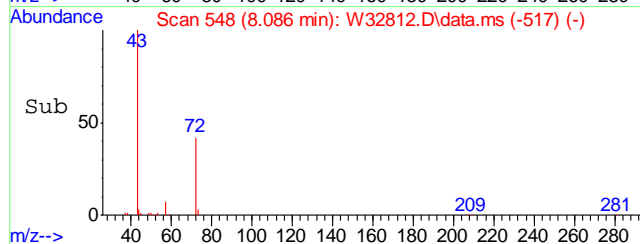
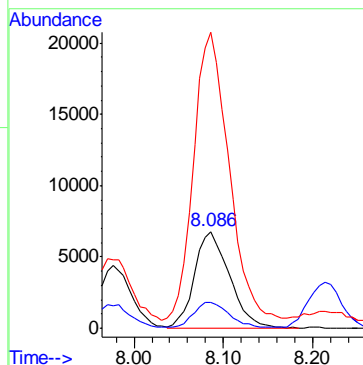
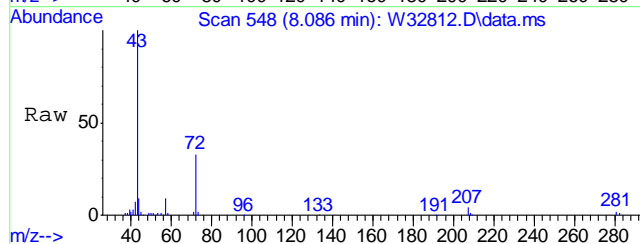
Tgt Ion:	57	Resp:	14337
Ion Ratio	Lower	Upper	
57	100		
56	53.7	33.7	73.7
41	72.0	74.5	114.5#





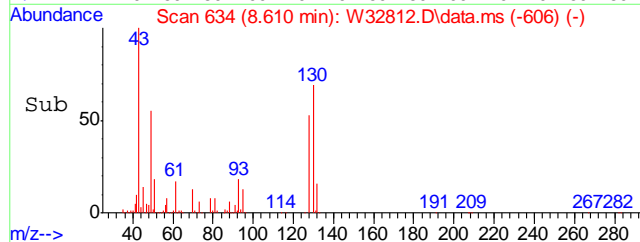
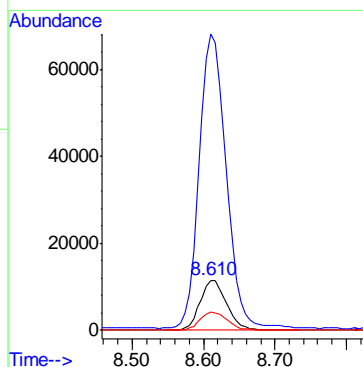
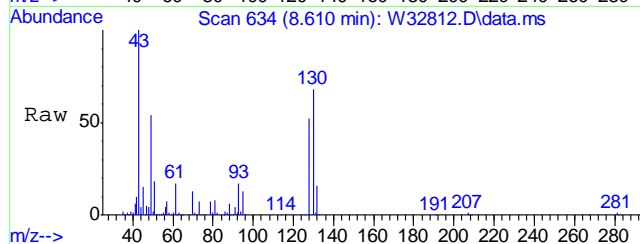
#40
METHYL ETHYL KETONE
Concen: 2.45 PPBV
RT: 8.086 min Scan# 548
Delta R.T. -0.012 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

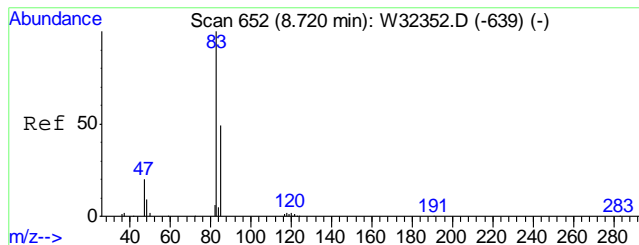
Tgt Ion	Ratio	Lower	Upper
72	100		
57	26.5	11.1	51.1
43	305.3	386.1	426.1#



#43
ETHYL ACETATE
Concen: 5.92 PPBV
RT: 8.610 min Scan# 634
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

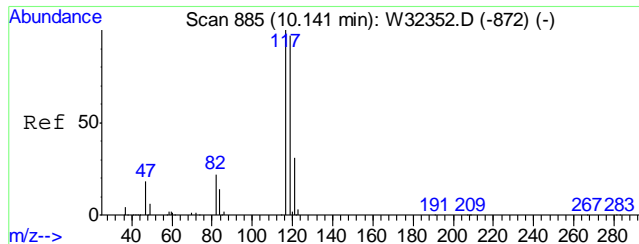
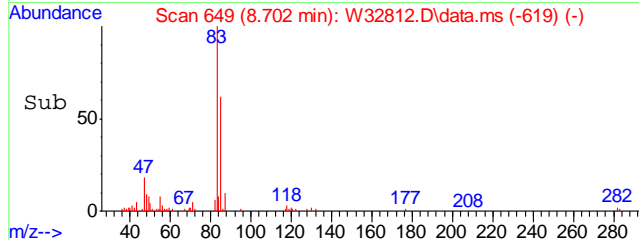
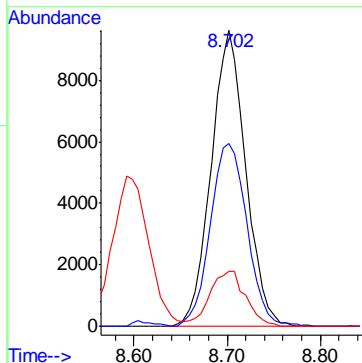
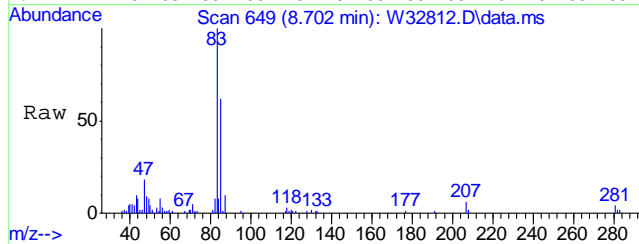
Tgt Ion	Ratio	Lower	Upper
61	100		
43	610.1	1488.2	1528.2#
88	37.1	27.8	67.8





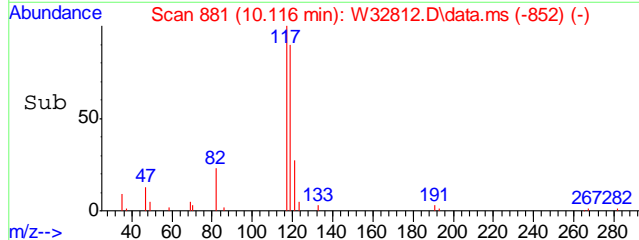
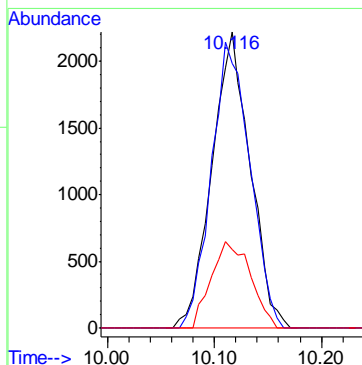
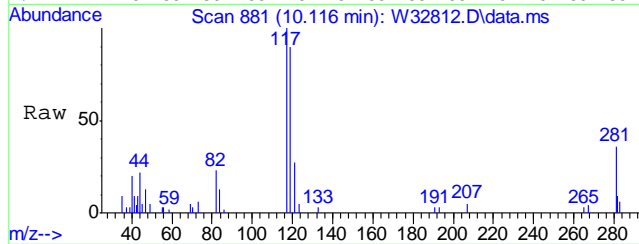
#45
CHLOROFORM
Concen: 0.85 PPBV
RT: 8.702 min Scan# 649
Delta R.T. -0.018 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

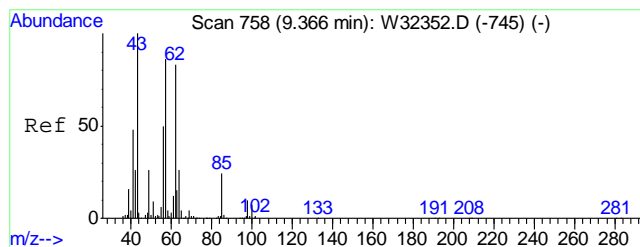
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	44.6	84.6
47	19.4	2.6	42.6



#48
CARBON TETRACHLORIDE
Concen: 0.18 PPBV
RT: 10.116 min Scan# 881
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

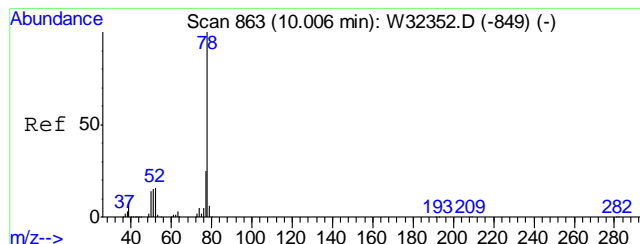
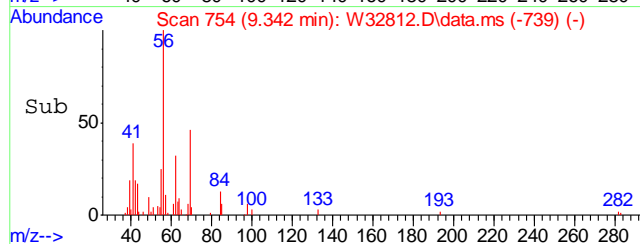
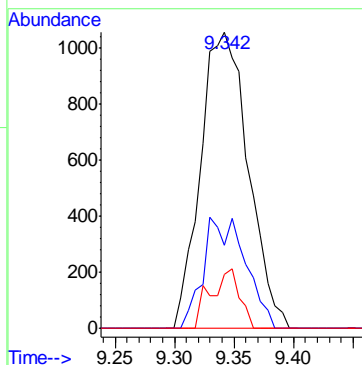
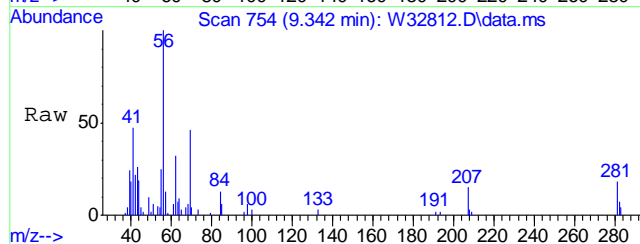
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.5	76.5	116.5
121	30.0	10.8	50.8





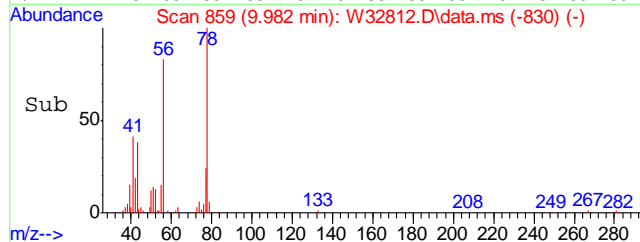
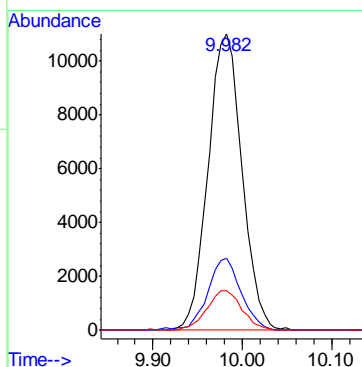
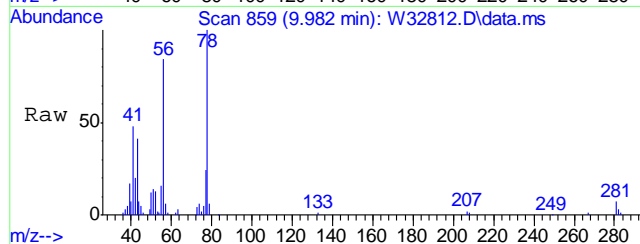
#49
1,2-DICHLOROETHANE
Concen: 0.17 PPBV
RT: 9.342 min Scan# 754
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

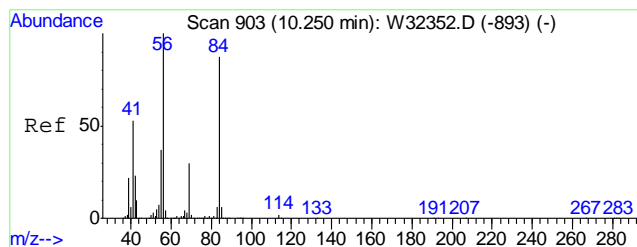
Tgt Ion:	62	Resp:	2946
Ion Ratio	Lower	Upper	
62	100		
64	33.1	12.3	52.3
98	12.1	0.0	32.0



#51
BENZENE
Concen: 0.63 PPBV
RT: 9.982 min Scan# 859
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

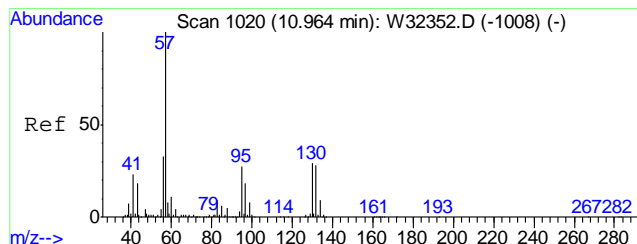
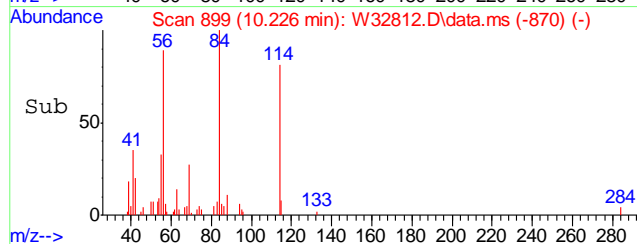
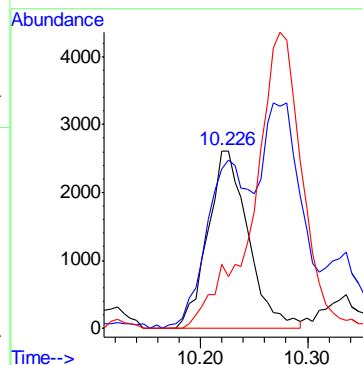
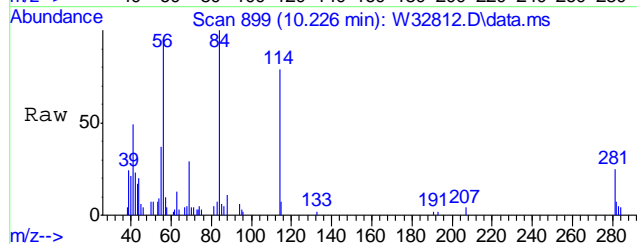
Tgt Ion:	78	Resp:	29001
Ion Ratio	Lower	Upper	
78	100		
77	24.0	4.7	44.7
52	13.7	0.0	35.9





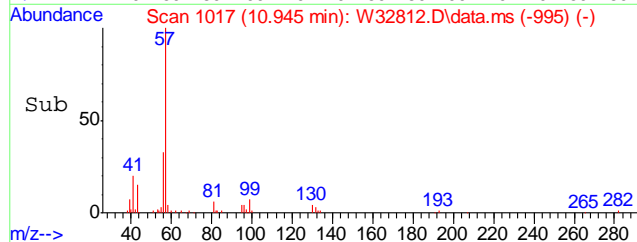
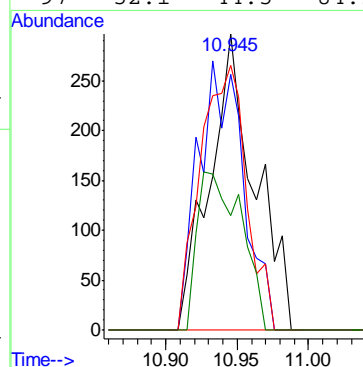
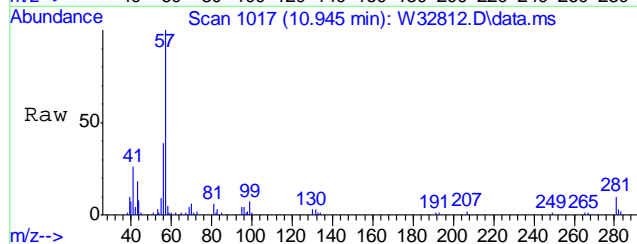
#52
CYCLOHEXANE
Concen: 0.30 PPBV
RT: 10.226 min Scan# 899
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

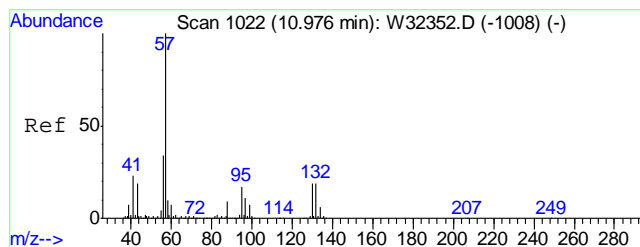
Tgt Ion: 84 Resp: 6839
Ion Ratio Lower Upper
84 100
56 103.3 102.7 142.7
69 0.0 20.8 60.8#



#54
TRICHLOROETHYLENE
Concen: 0.04 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.018 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

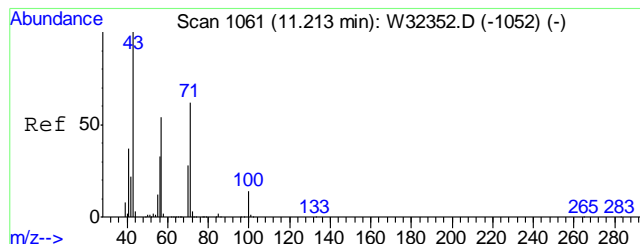
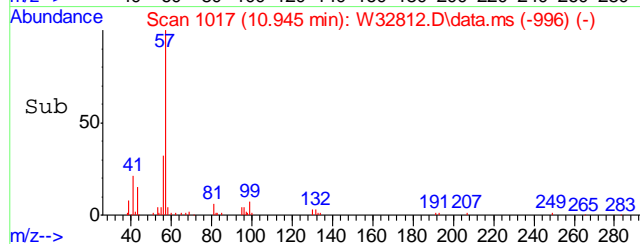
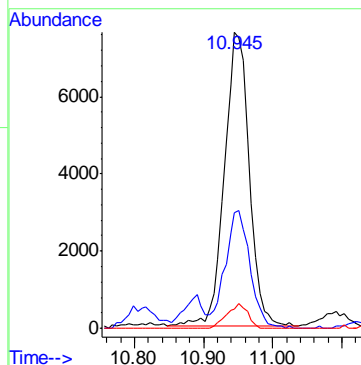
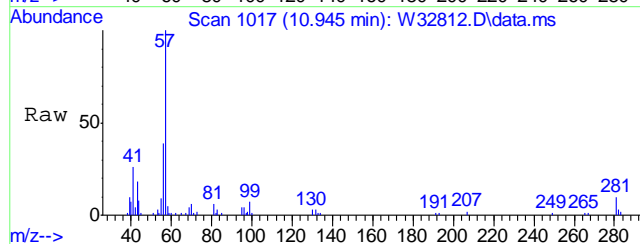
Tgt Ion: 95 Resp: 657
Ion Ratio Lower Upper
95 100
132 89.3 84.3 124.3
130 90.9 88.4 128.4
97 52.1 44.5 84.5





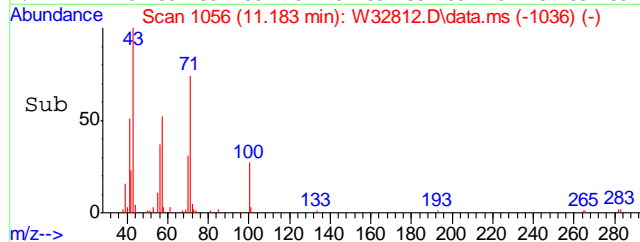
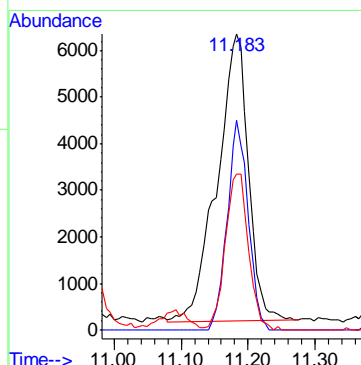
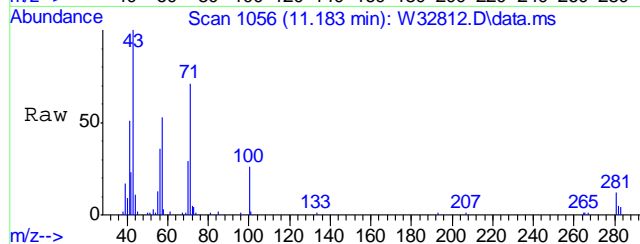
#59
2,2,4-TRIMETHYLPENTANE
Concen: 0.24 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.031 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

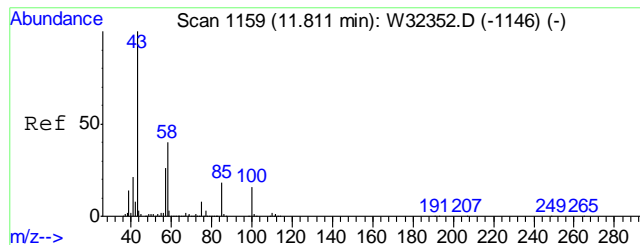
Tgt Ion	Ratio	Lower	Upper
57	100		
56	40.4	13.5	53.5
99	7.1	0.0	27.7



#62
HEPTANE
Concen: 0.68 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

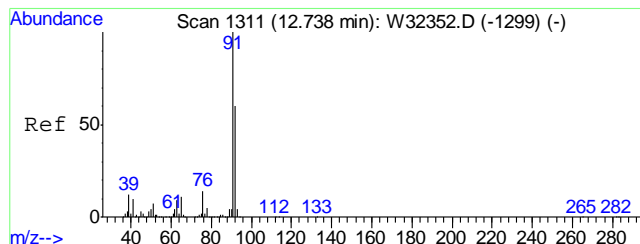
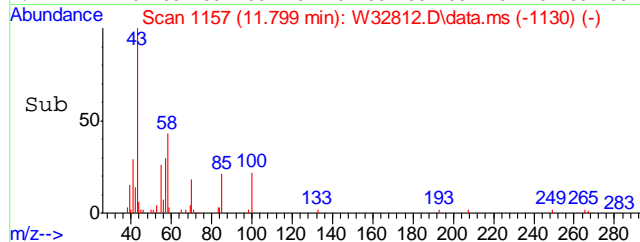
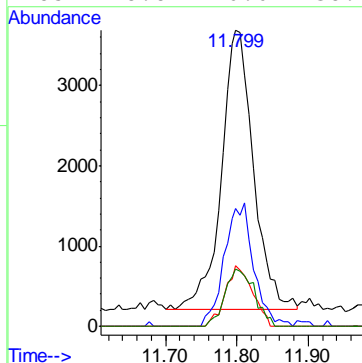
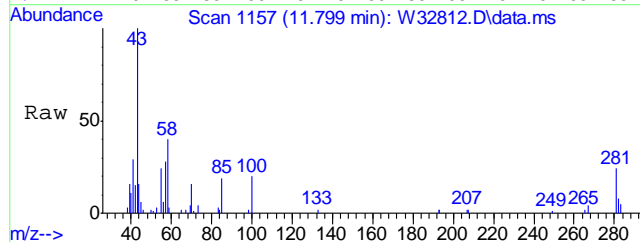
Tgt Ion	Ratio	Lower	Upper
43	100		
71	48.8	41.6	81.6
57	40.5	34.6	74.6





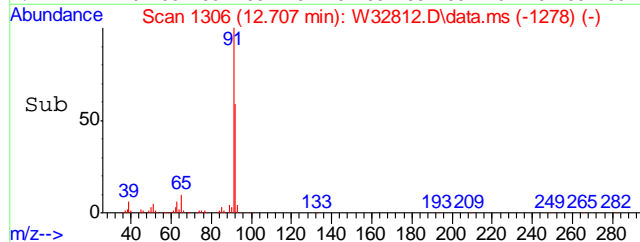
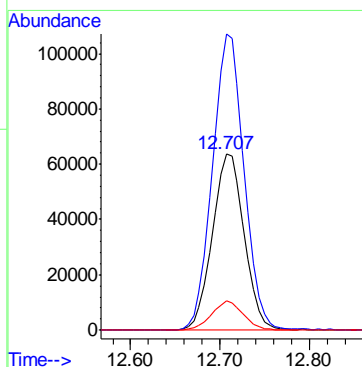
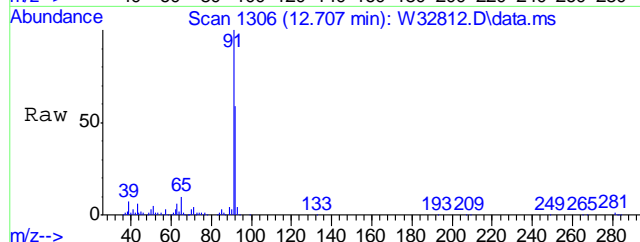
#64
METHYL ISOBUTYL KETONE
Concen: 0.34 PPBV
RT: 11.799 min Scan# 1157
Delta R.T. -0.012 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

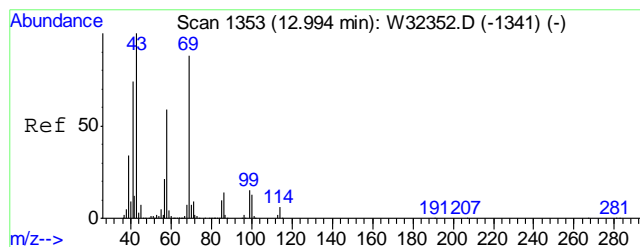
Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.9	20.7	60.7
100	18.4	0.0	36.0
85	18.8	0.0	38.1



#66
TOLUENE
Concen: 5.12 PPBV
RT: 12.707 min Scan# 1306
Delta R.T. -0.031 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

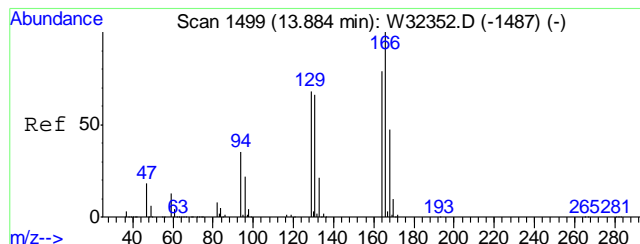
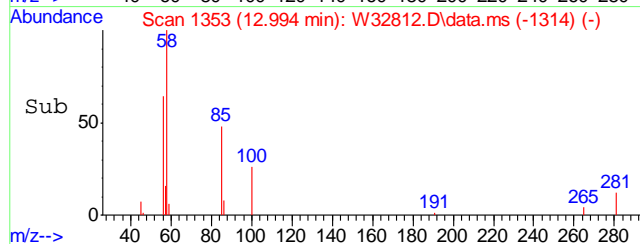
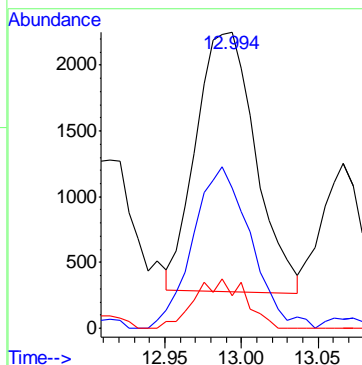
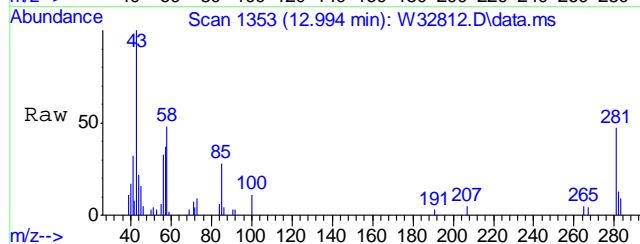
Tgt Ion	Ratio	Lower	Upper
92	100		
91	167.0	146.2	186.2
65	16.4	0.4	40.4





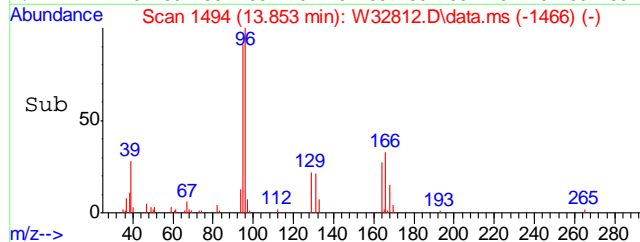
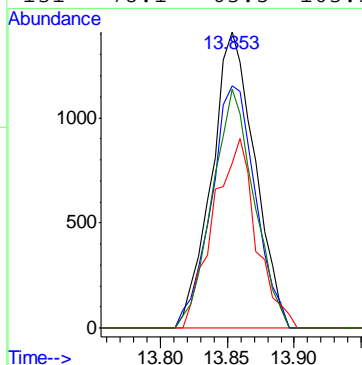
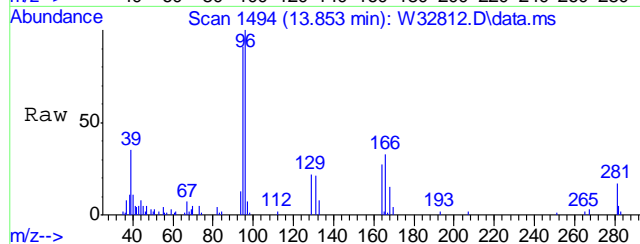
#71
2-HEXANONE
Concen: 0.21 PPBV
RT: 12.994 min Scan# 1353
Delta R.T. -0.000 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

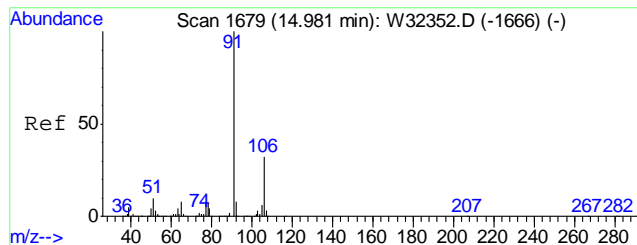
Tgt Ion:	43	Resp:	5331
Ion Ratio	Lower	Upper	
43	100		
58	60.2	39.4	79.4
100	16.2	0.0	33.6



#72
TETRACHLOROETHYLENE
Concen: 0.19 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.031 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

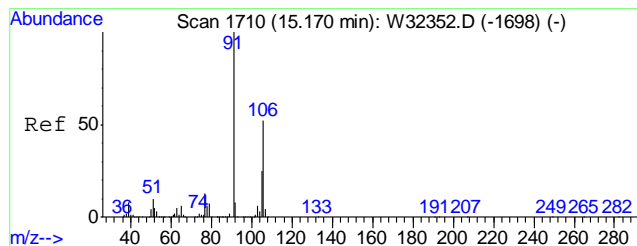
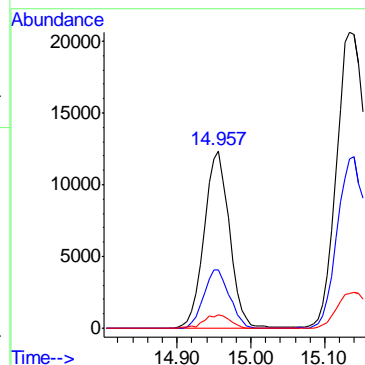
Tgt Ion:	164	Resp:	3155
Ion Ratio	Lower	Upper	
164	100		
129	84.1	66.3	106.3
168	63.9	41.0	81.0
131	78.1	63.5	103.5





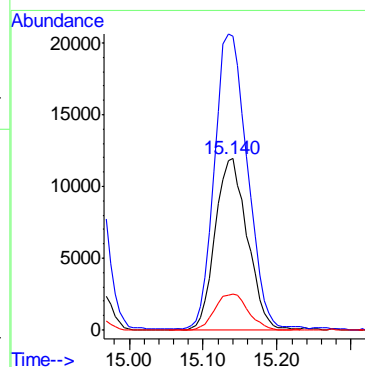
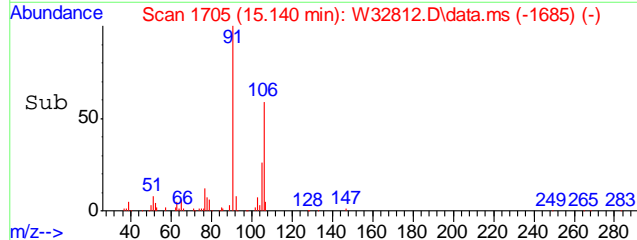
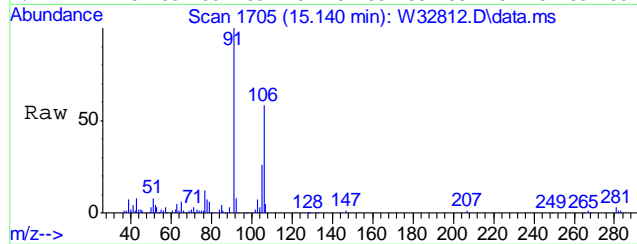
#78
ETHYLBENZENE
Concen: 0.58 PPBV
RT: 14.957 min Scan# 1675
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

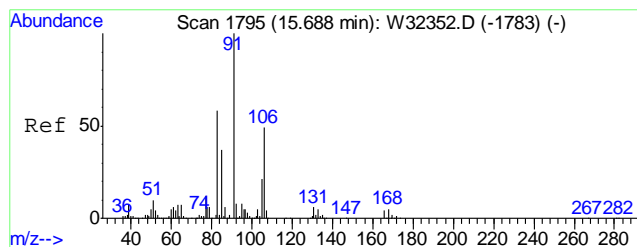
Tgt Ion:	91	Resp:	28898
Ion Ratio	Lower	Upper	
91	100		
106	33.4	11.7	51.7
77	7.9	0.0	28.1



#79
m,p-XYLENE
Concen: 1.82 PPBV
RT: 15.140 min Scan# 1705
Delta R.T. -0.031 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

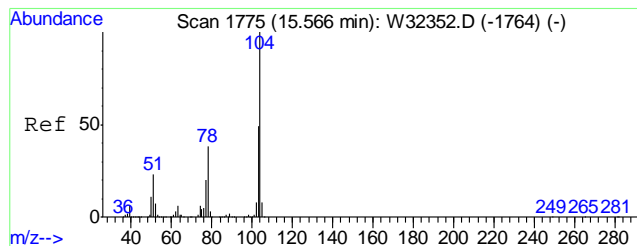
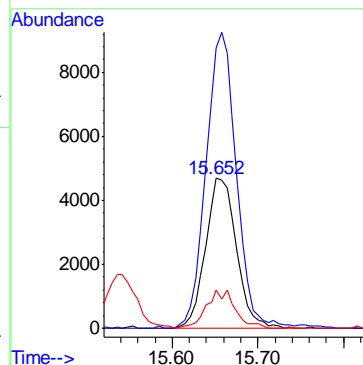
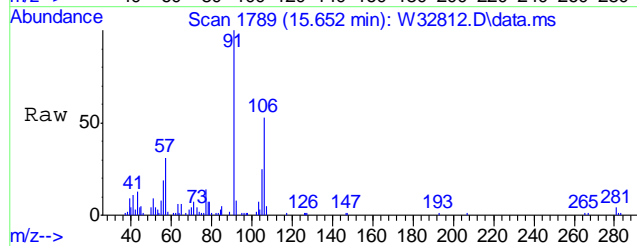
Tgt Ion:	106	Resp:	35314
Ion Ratio	Lower	Upper	
106	100		
91	171.6	152.6	228.8
77	20.9	19.9	29.9





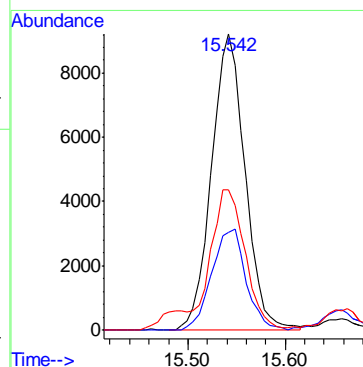
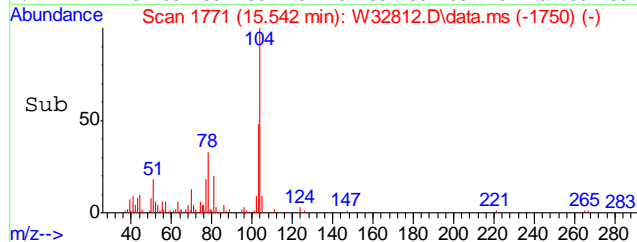
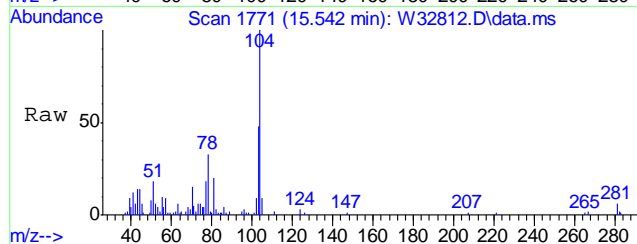
#80
o-XYLENE
Concen: 0.63 PPBV
RT: 15.652 min Scan# 1789
Delta R.T. -0.037 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

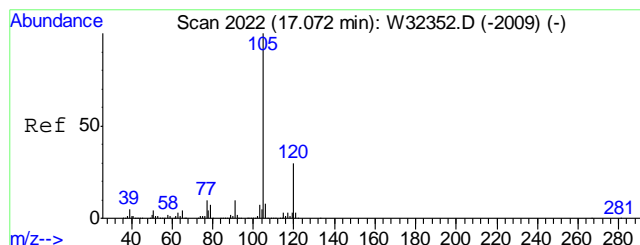
Tgt Ion	Ratio	Lower	Upper
106	100		
91	192.9	182.1	222.1
77	23.6	4.0	44.0



#81
STYRENE
Concen: 0.83 PPBV
RT: 15.542 min Scan# 1771
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

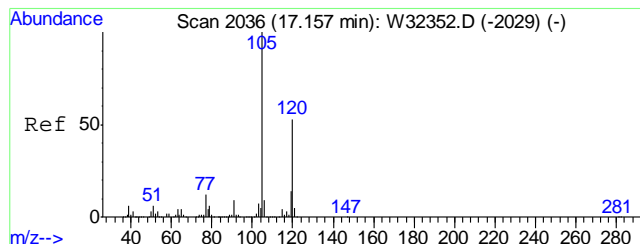
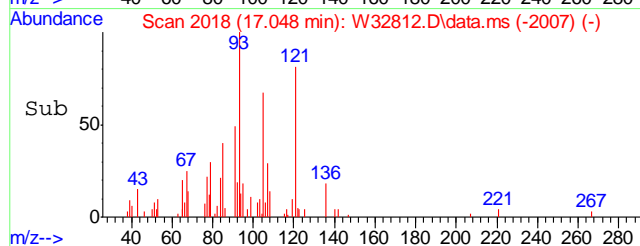
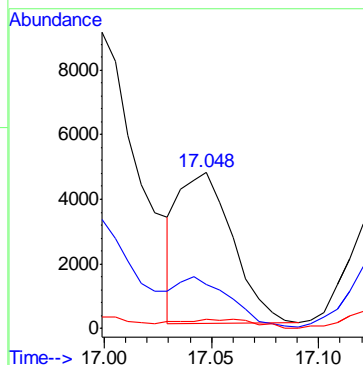
Tgt Ion	Ratio	Lower	Upper
104	100		
78	34.8	18.2	58.2
103	54.4	28.2	68.2





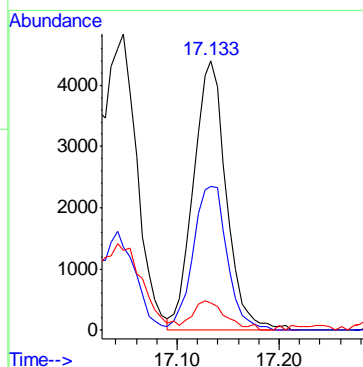
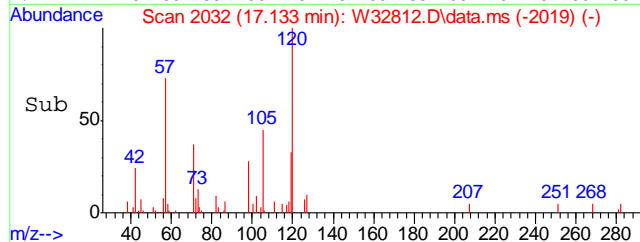
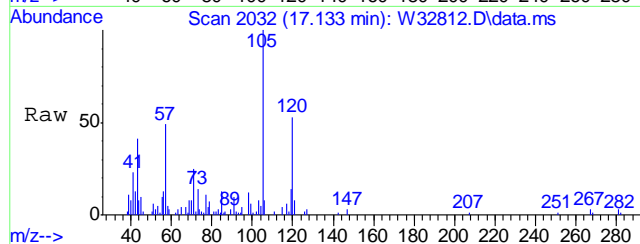
#91
4-ETHYLTOLUENE
Concen: 0.18 PPBV
RT: 17.048 min Scan# 2018
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

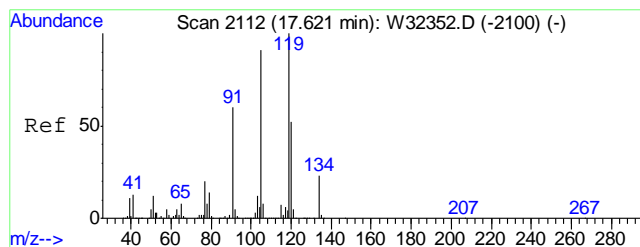
Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.3	9.8	49.8
119	8.7	0.0	22.9



#92
1,3,5-TRIMETHYLBENZENE
Concen: 0.27 PPBV
RT: 17.133 min Scan# 2032
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

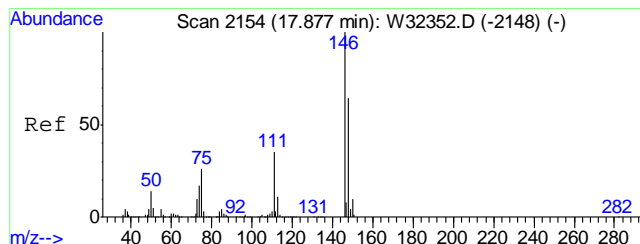
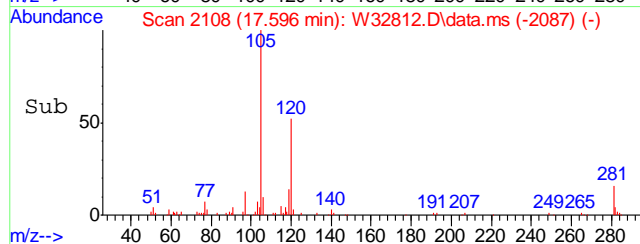
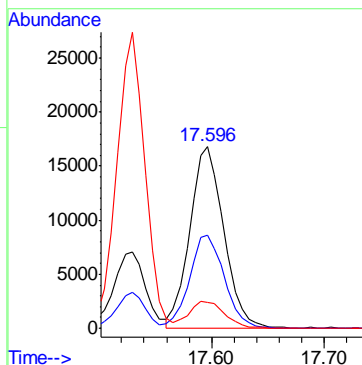
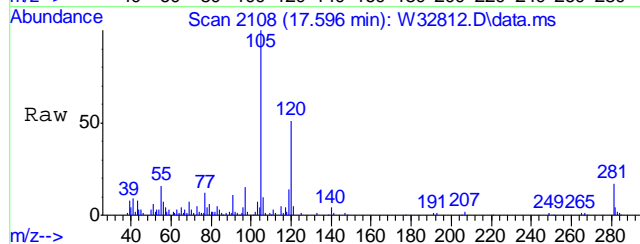
Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.5	32.9	72.9
91	10.9	0.0	29.3





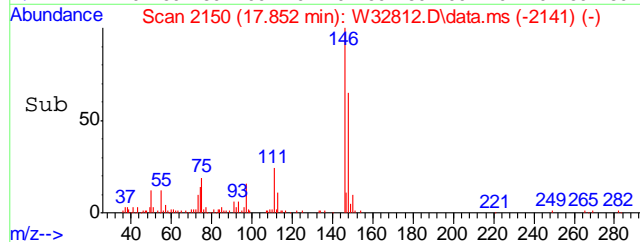
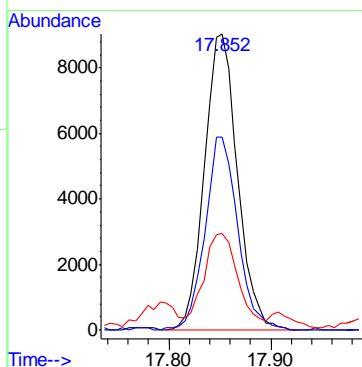
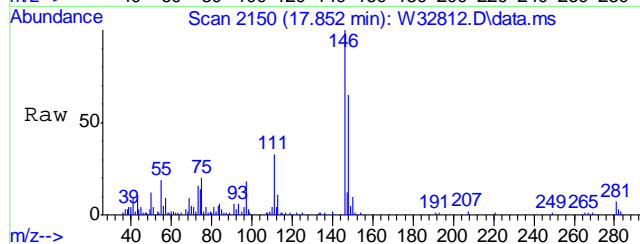
#95
1,2,4-TRIMETHYLBENZENE
Concen: 1.07 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

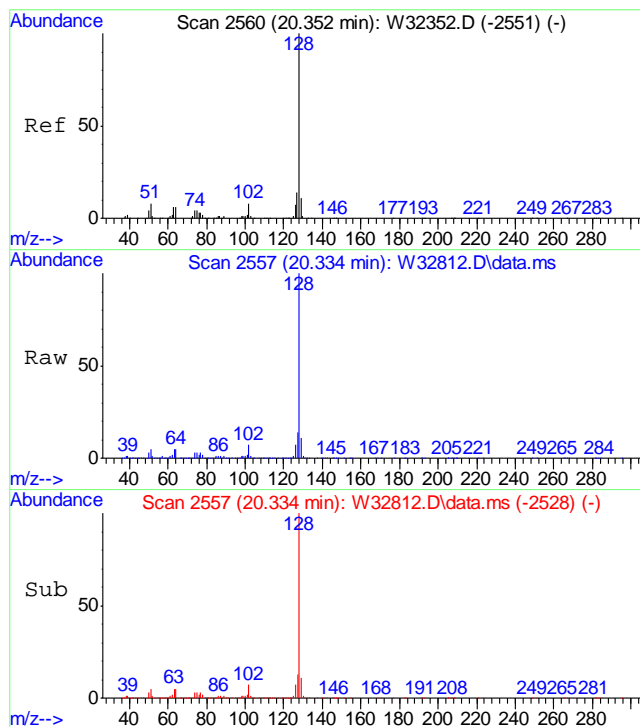
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.6	39.3	79.3
119	15.4	101.1	141.1#



#98
p-DICHLOROBENZENE
Concen: 1.05 PPBV
RT: 17.852 min Scan# 2150
Delta R.T. -0.024 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

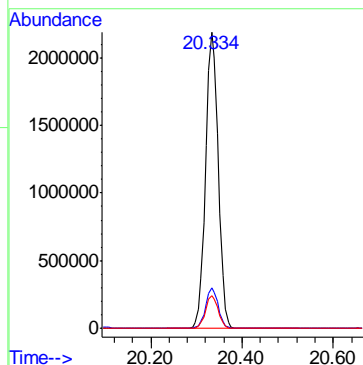
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.6	43.6	83.6
111	29.6	15.4	55.4





#107
NAPHTHALENE
Concen: 569.10 PPBV
RT: 20.334 min Scan# 2557
Delta R.T. -0.018 min
Lab File: W32812.D
Acq: 20 Jul 2011 5:31 pm

Tgt Ion	128	127	129
Ion	128	127	129
Ratio	100	13.3	11.0
Lower		0.0	0.0
Upper		34.3	30.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
Data File : W32841.D
Acq On : 21 Jul 2011 6:25 pm
Operator : YOUMINH
Sample : JA81054-3DUP
Misc : MS15341,VW1342,100,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 00:27:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	8.592	128	139645	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.275	114	687273	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.518	82	326982	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.518	82	327294	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.164	95	163604	4.63	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	92.60%

Target Compounds

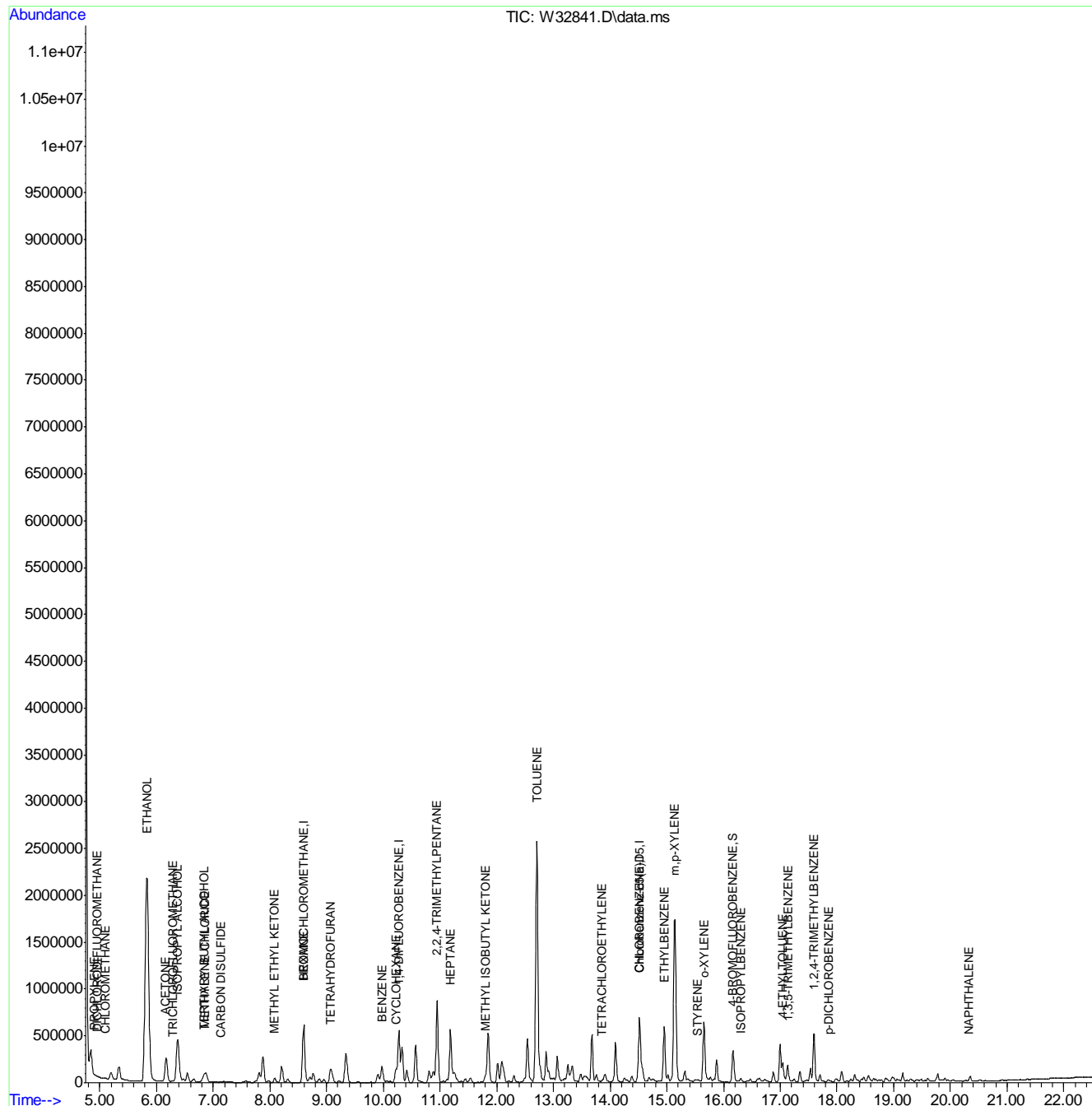
						Qvalue
5) DICHLORODIFLUOROMETHANE	4.958	85	5650	0.14	PPBV	99
6) PROPYLENE	4.910	41	7610	0.44	PPBV	92
8) CHLOROMETHANE	5.105	52	1119	0.21	PPBV #	80
18) TRICHLOROFLUOROMETHANE	6.287	101	9841	0.25	PPBV	97
19) ISOPROPYL ALCOHOL	6.373	45	1074064	31.56	PPBV	99
20) ACETONE	6.166	58	82799	9.27	PPBV #	71
26) CARBON DISULFIDE	7.129	76	5294	0.12	PPBV	91
27) ETHANOL	5.830	45	5583141	624.75	PPBV	98
30) METHYLENE CHLORIDE	6.861	84	20036	1.19	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.842	59	117992	2.99	PPBV #	65
36) TETRAHYDROFURAN	9.067	72	56684	6.94	PPBV #	89
37) HEXANE	8.598	57	211480	6.95	PPBV #	82
40) METHYL ETHYL KETONE	8.086	72	22344	2.67	PPBV #	67
51) BENZENE	9.976	78	212830	4.06	PPBV	97
52) CYCLOHEXANE	10.220	84	84860	3.21	PPBV	97
59) 2,2,4-TRIMETHYLPENTANE	10.945	57	944170	10.47	PPBV	93
62) HEPTANE	11.183	43	286171	8.49	PPBV	95
64) METHYL ISOBUTYL KETONE	11.799	43	20810	0.57	PPBV	97
66) TOLUENE	12.713	92	1555271	44.22	PPBV	99
72) TETRACHLOROETHYLENE	13.853	164	2539	0.12	PPBV	98
78) ETHYLBENZENE	14.957	91	643795	9.91	PPBV	98
79) m,p-XYLENE	15.133	106	924039	36.66	PPBV	95
80) o-XYLENE	15.658	106	282371	11.60	PPBV	95
81) STYRENE	15.542	104	3400	0.10	PPBV	98
87) ISOPROPYLBENZENE	16.310	105	36387	0.53	PPBV	100
91) 4-ETHYLTOLUENE	17.041	105	152308	2.67	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.133	105	124584	2.64	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.596	105	369049	8.55	PPBV #	32
98) p-DICHLOROBENZENE	17.846	146	9378	0.37	PPBV	96
107) NAPHTHALENE	20.327	128	9858	1.01	PPBV	87

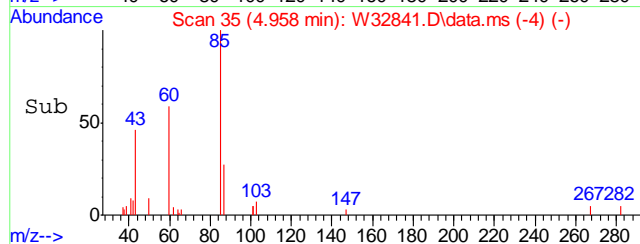
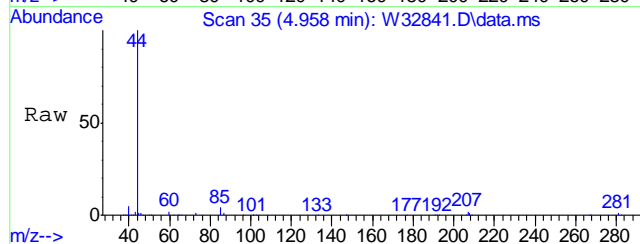
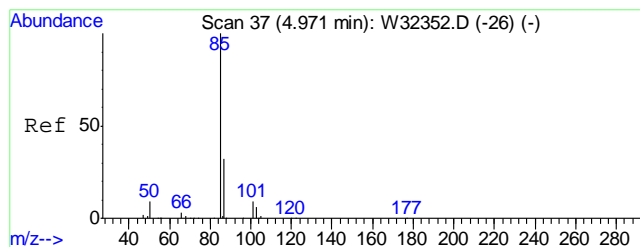
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VW1342\
Data File : W32841.D
Acq On : 21 Jul 2011 6:25 pm
Operator : YOUMINH
Sample : JA81054-3DUP
Misc : MS15341,VW1342,100,,,1
ALS Vial : 13 Sample Multiplier: 1

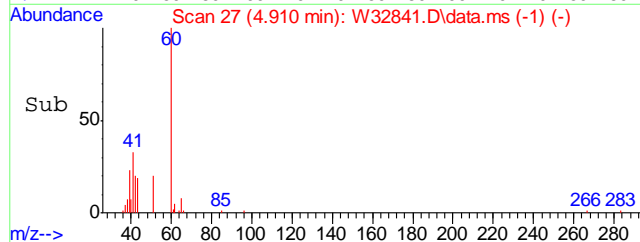
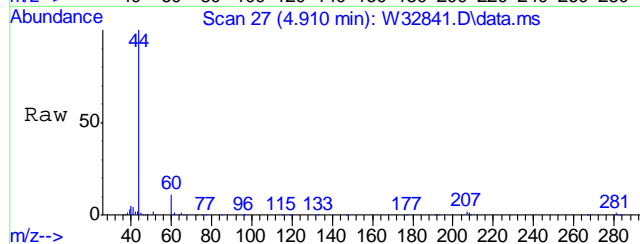
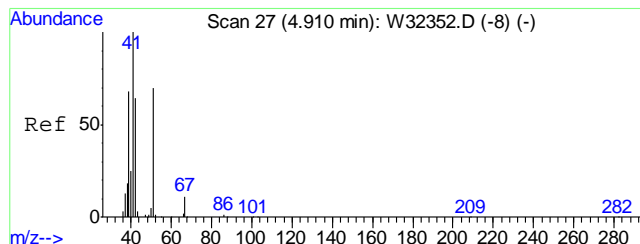
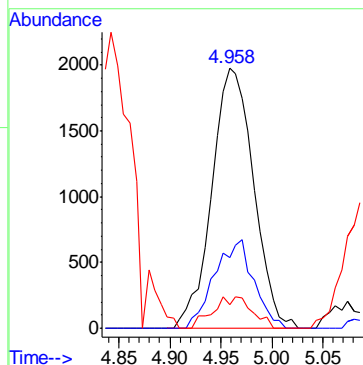
Quant Time: Aug 17 00:27:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M
Quant Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
QLast Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration





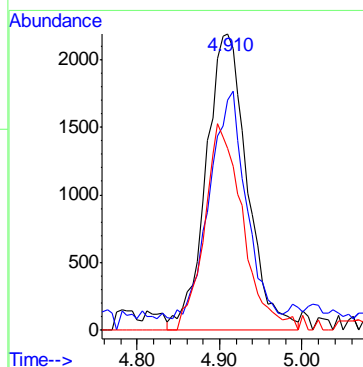
#5
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 4.958 min Scan# 35
Delta R.T. -0.012 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

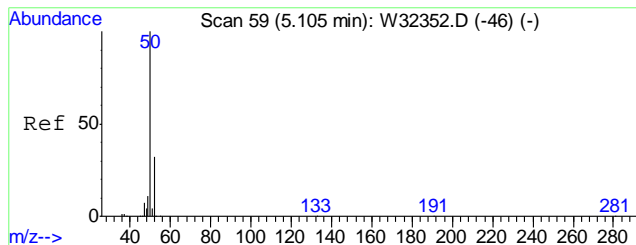
Tgt Ion	85	Resp	5650
Ion Ratio	Lower	Upper	
85	100		
87	32.0	12.0	52.0
50	11.4	0.0	30.7



#6
PROPYLENE
Concen: 0.44 PPBV
RT: 4.910 min Scan# 27
Delta R.T. -0.000 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

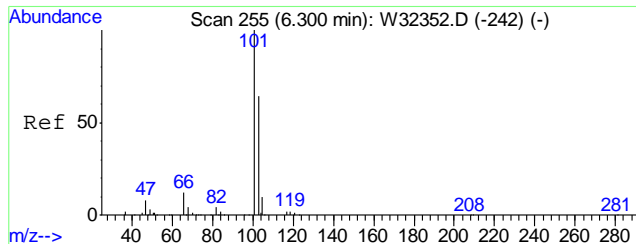
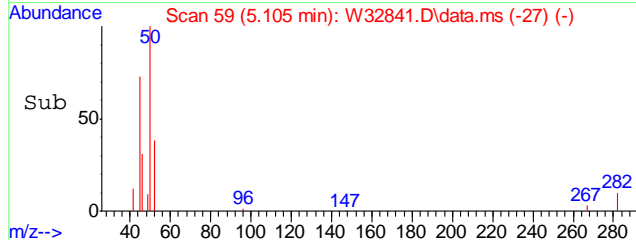
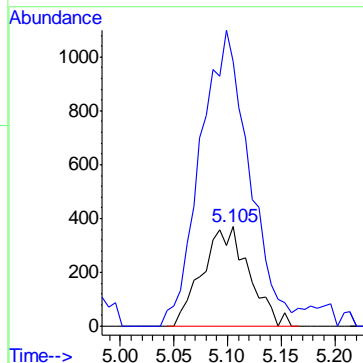
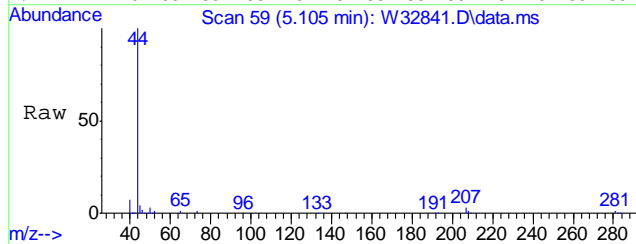
Tgt Ion	41	Resp	7610
Ion Ratio	Lower	Upper	
41	100		
39	77.7	47.7	87.7
42	61.6	43.7	83.7





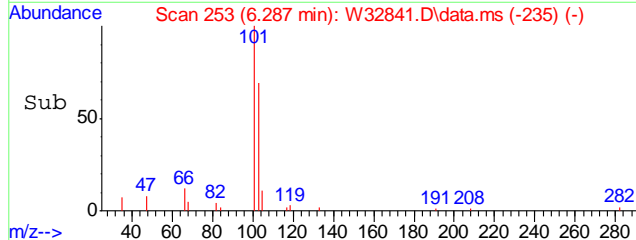
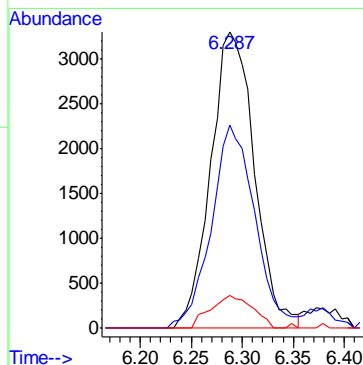
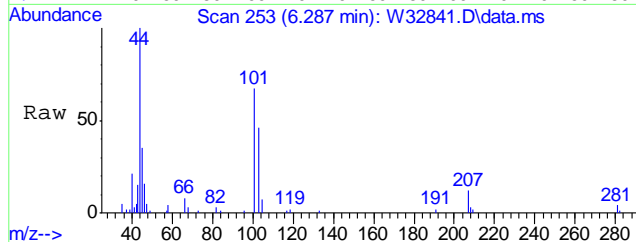
#8
CHLOROMETHANE
Concen: 0.21 PPBV
RT: 5.105 min Scan# 59
Delta R.T. -0.000 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

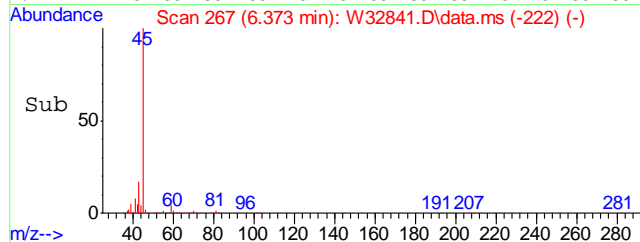
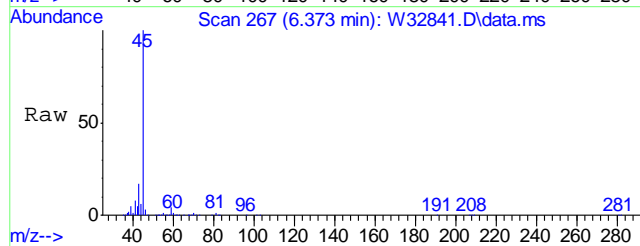
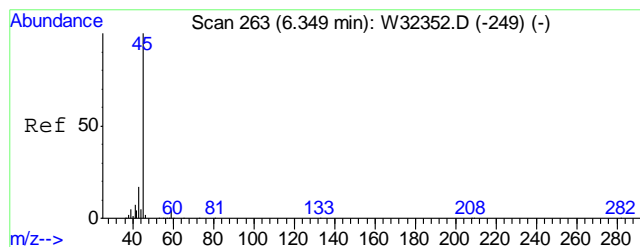
Tgt Ion: 52 Resp: 1119
Ion Ratio Lower Upper
52 100
50 249.7 268.6 308.6#



#18
TRICHLOROFLUOROMETHANE
Concen: 0.25 PPBV
RT: 6.287 min Scan# 253
Delta R.T. -0.012 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

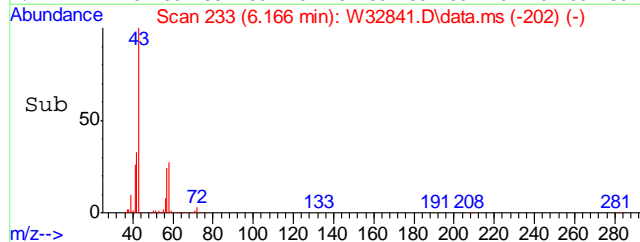
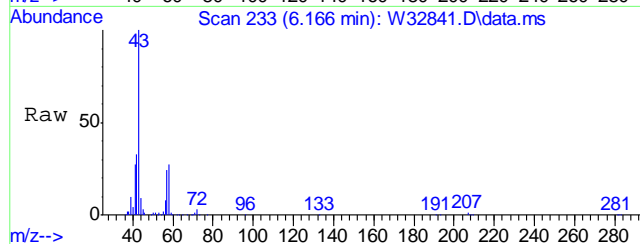
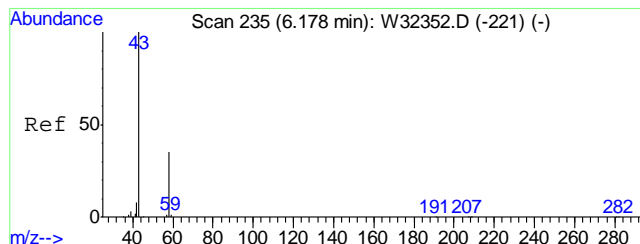
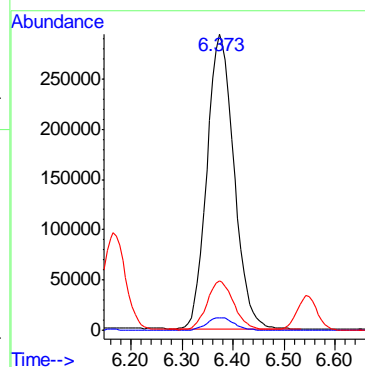
Tgt Ion: 101 Resp: 9841
Ion Ratio Lower Upper
101 100
103 68.0 44.9 84.9
105 10.5 0.0 30.4





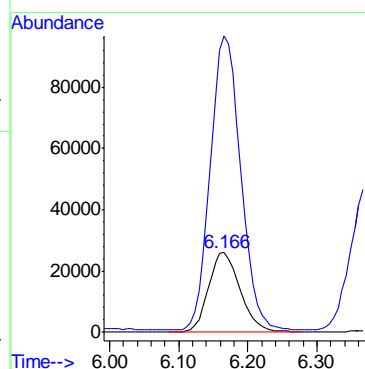
#19
ISOPROPYL ALCOHOL
Concen: 31.56 PPBV
RT: 6.373 min Scan# 267
Delta R.T. 0.024 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

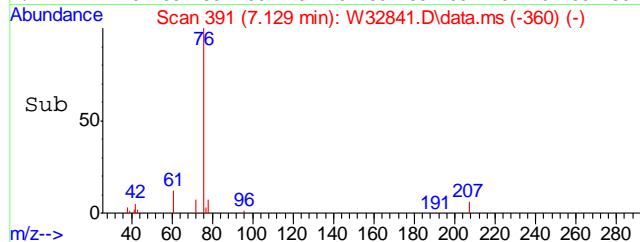
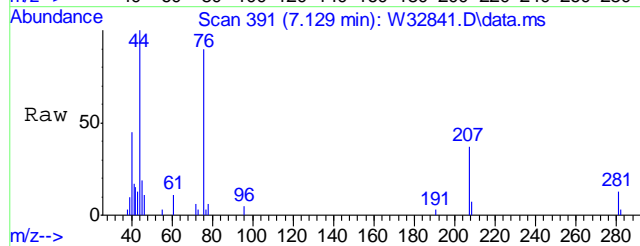
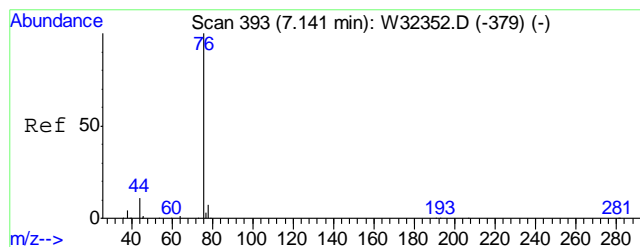
Tgt Ion: 45 Resp: 1074064
Ion Ratio Lower Upper
45 100
59 4.3 0.0 24.3
43 16.8 0.0 37.5



#20
ACETONE
Concen: 9.27 PPBV
RT: 6.166 min Scan# 233
Delta R.T. -0.012 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

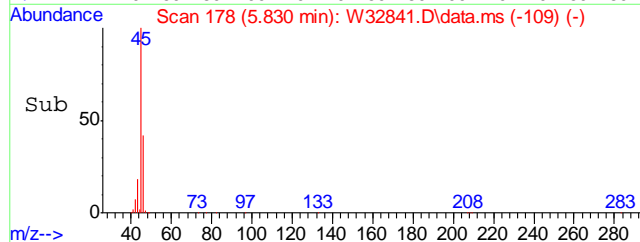
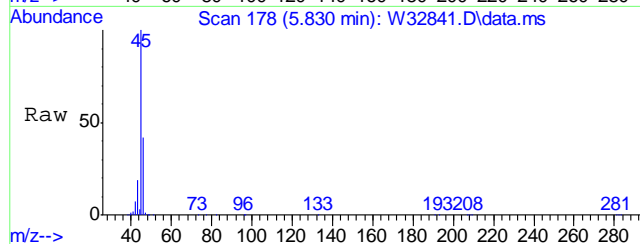
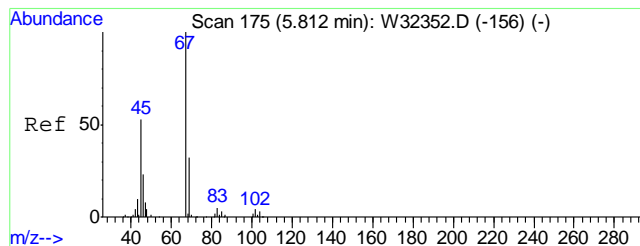
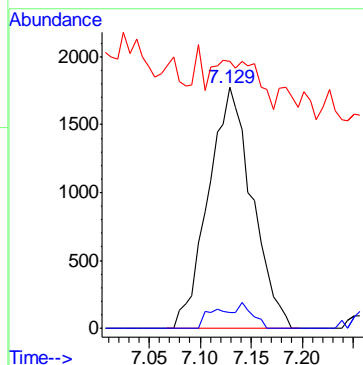
Tgt Ion: 58 Resp: 82799
Ion Ratio Lower Upper
58 100
43 355.2 277.6 317.6#





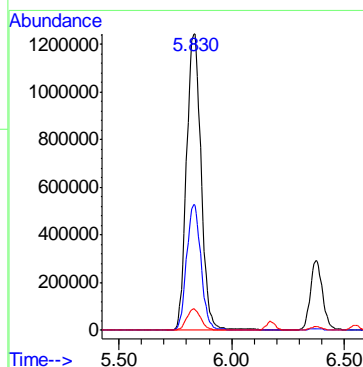
#26
CARBON DISULFIDE
Concen: 0.12 PPBV
RT: 7.129 min Scan# 391
Delta R.T. -0.012 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

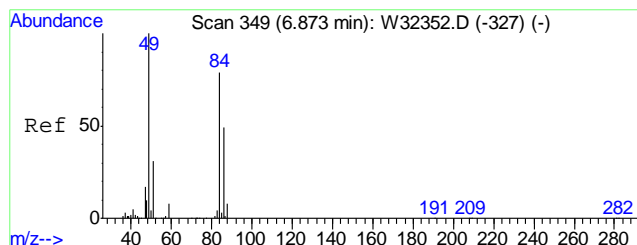
Tgt Ion: 76	Resp: 5294
Ion Ratio	Lower Upper
76 100	
78 4.4	0.0 28.9
44 13.6	0.0 31.0



#27
ETHANOL
Concen: 624.75 PPBV
RT: 5.830 min Scan# 178
Delta R.T. 0.018 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

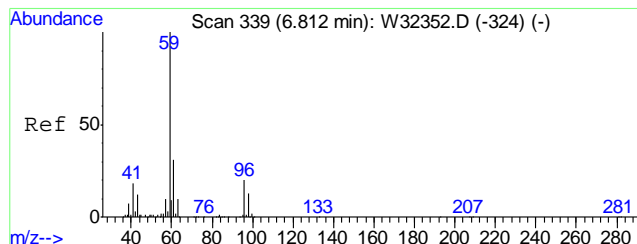
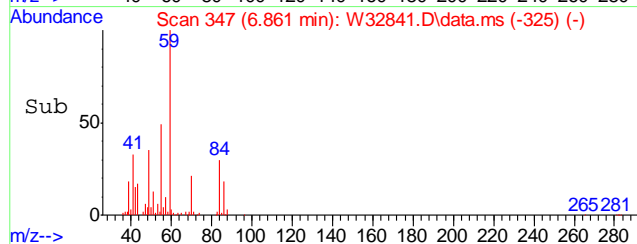
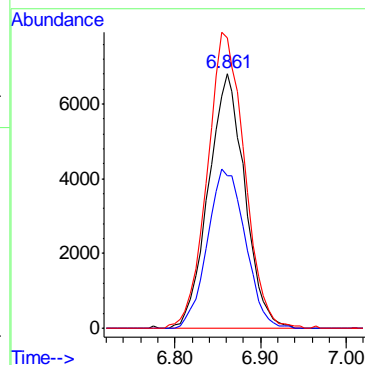
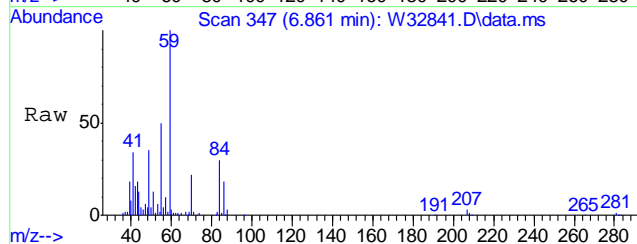
Tgt Ion: 45	Resp: 5583141
Ion Ratio	Lower Upper
45 100	
46 41.8	20.6 60.6
42 7.0	0.0 28.7





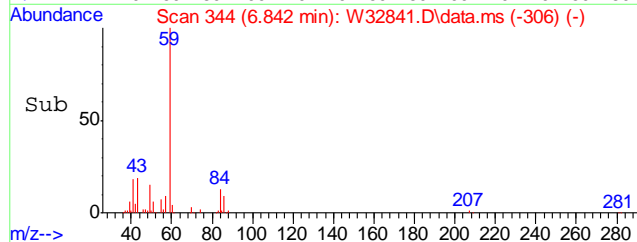
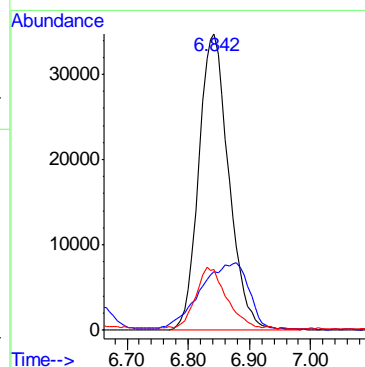
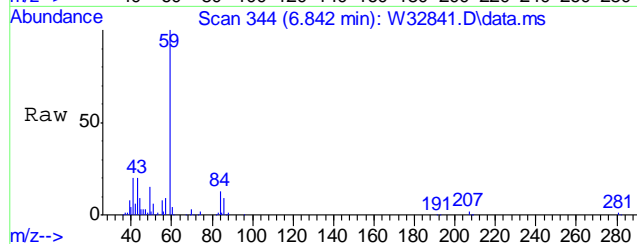
#30
METHYLENE CHLORIDE
Concen: 1.19 PPBV
RT: 6.861 min Scan# 347
Delta R.T. -0.012 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

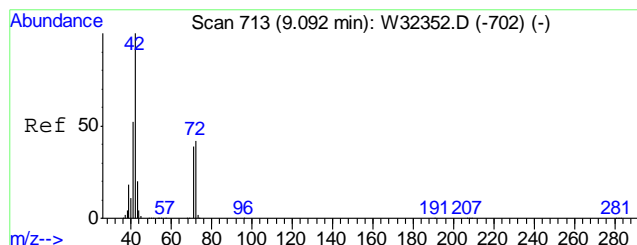
Tgt Ion:	84	Resp:	20036
Ion Ratio	Lower	Upper	
84	100		
86	64.9	42.9	82.9
49	118.8	0.0	324.2



#34
TERTIARY BUTYL ALCOHOL
Concen: 2.99 PPBV
RT: 6.842 min Scan# 344
Delta R.T. 0.030 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

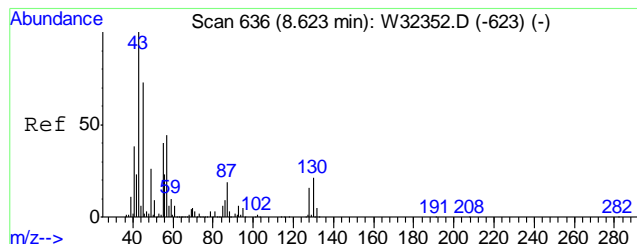
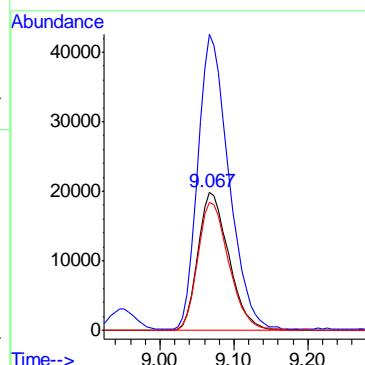
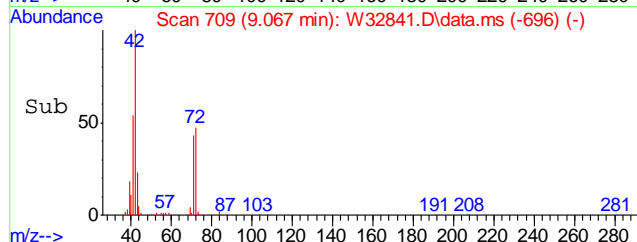
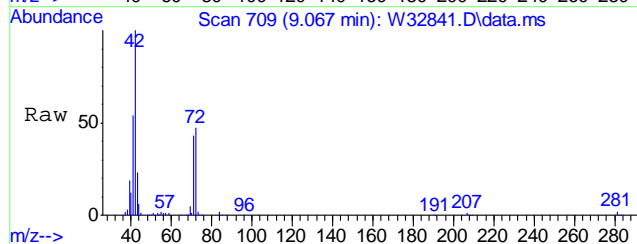
Tgt Ion:	59	Resp:	117992
Ion Ratio	Lower	Upper	
59	100		
41	0.0	0.0	39.2
43	21.4	0.0	32.1





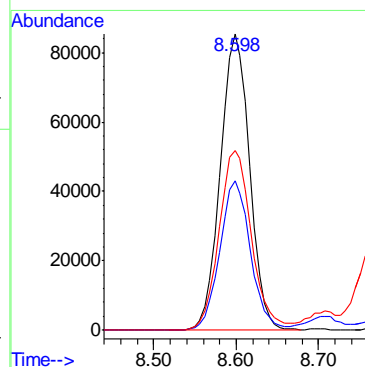
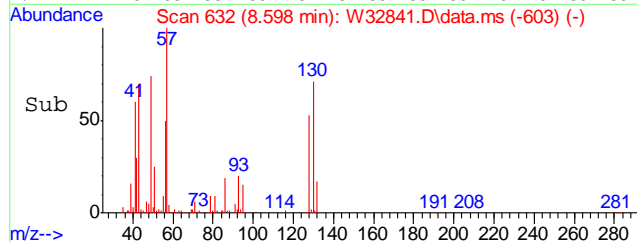
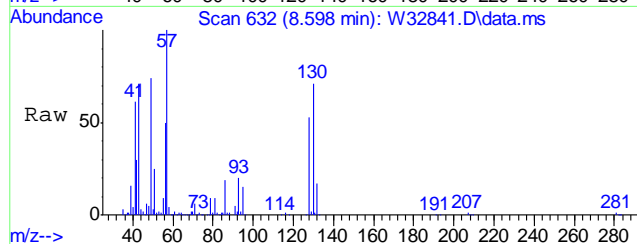
#36
TETRAHYDROFURAN
Concen: 6.94 PPBV
RT: 9.067 min Scan# 709
Delta R.T. -0.025 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

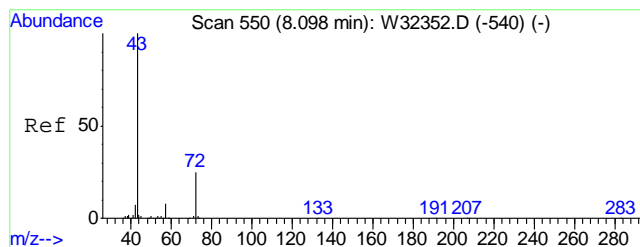
Tgt Ion: 72 Resp: 56684
Ion Ratio Lower Upper
72 100
42 214.4 220.0 260.0#
71 93.2 74.2 114.2



#37
HEXANE
Concen: 6.95 PPBV
RT: 8.598 min Scan# 632
Delta R.T. -0.024 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

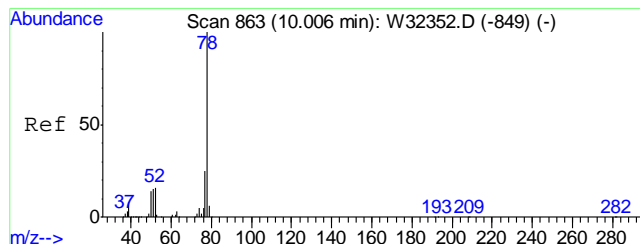
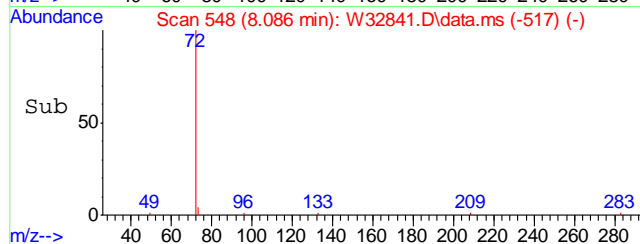
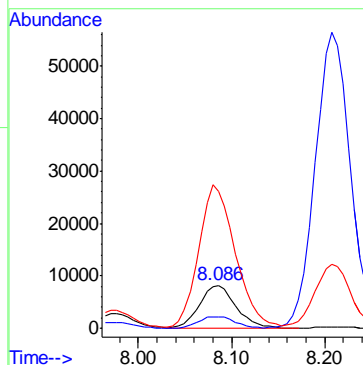
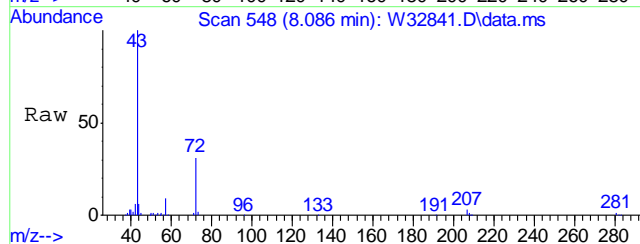
Tgt Ion: 57 Resp: 211480
Ion Ratio Lower Upper
57 100
56 52.6 33.7 73.7
41 67.3 74.5 114.5#





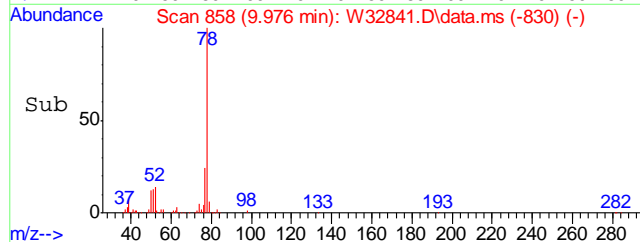
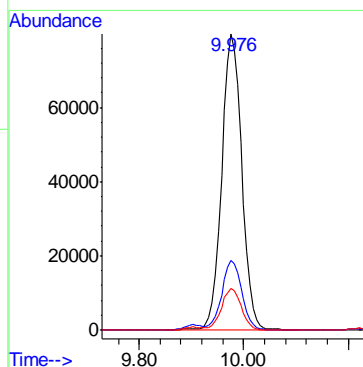
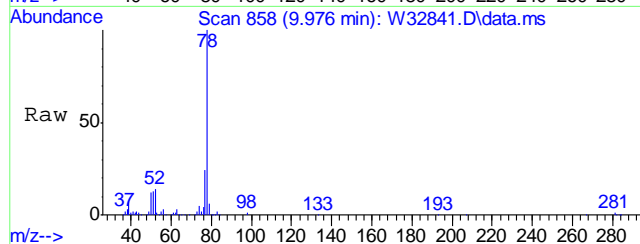
#40
METHYL ETHYL KETONE
Concen: 2.67 PPBV
RT: 8.086 min Scan# 548
Delta R.T. -0.012 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

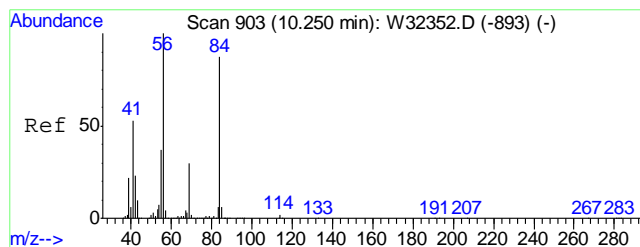
Tgt Ion:	72	Resp:	22344
Ion Ratio	Lower	Upper	
72	100		
57	27.6	11.1	51.1
43	321.5	386.1	426.1#



#51
BENZENE
Concen: 4.06 PPBV
RT: 9.976 min Scan# 858
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

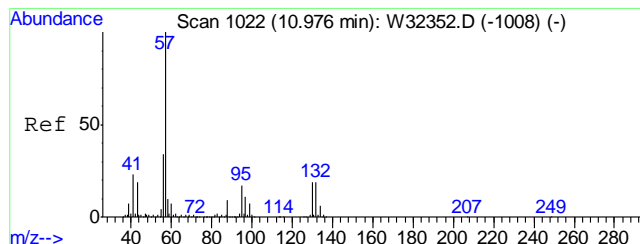
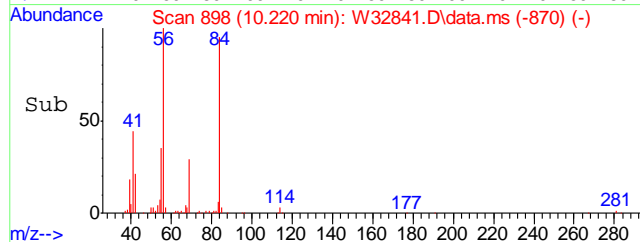
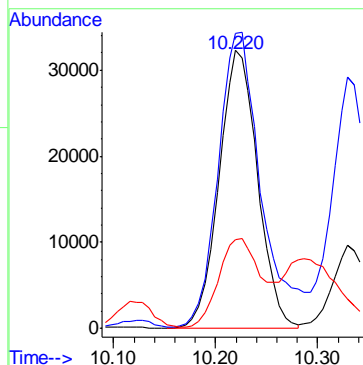
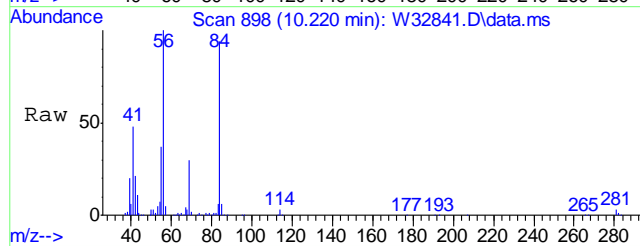
Tgt Ion:	78	Resp:	212830
Ion Ratio	Lower	Upper	
78	100		
77	23.4	4.7	44.7
52	13.9	0.0	35.9





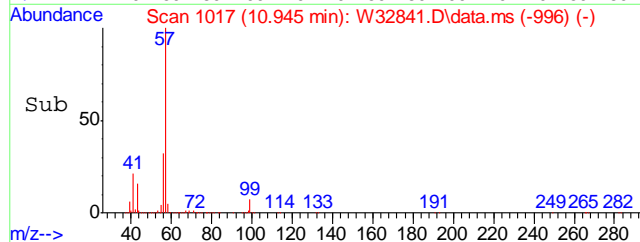
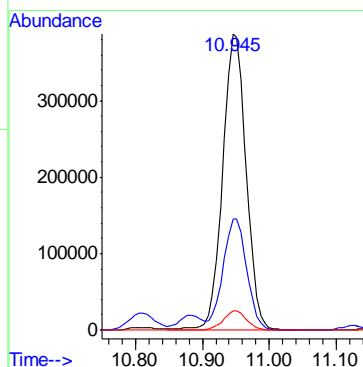
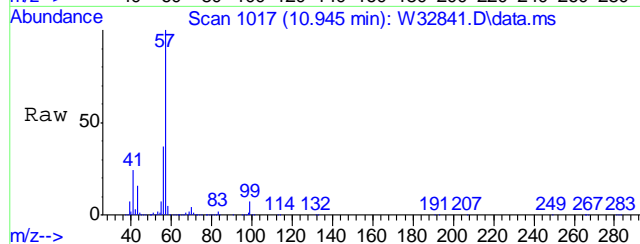
#52
CYCLOHEXANE
Concen: 3.21 PPBV
RT: 10.220 min Scan# 898
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

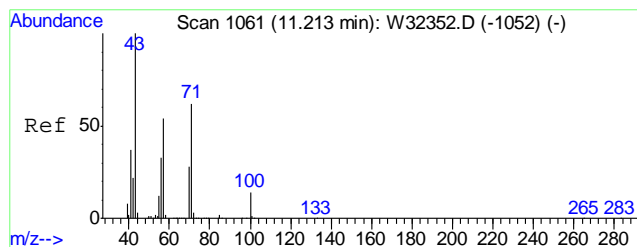
Tgt Ion	Ratio	Lower	Upper
84	100		
56	120.0	102.7	142.7
69	37.4	20.8	60.8



#59
2,2,4-TRIMETHYLPENTANE
Concen: 10.47 PPBV
RT: 10.945 min Scan# 1017
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

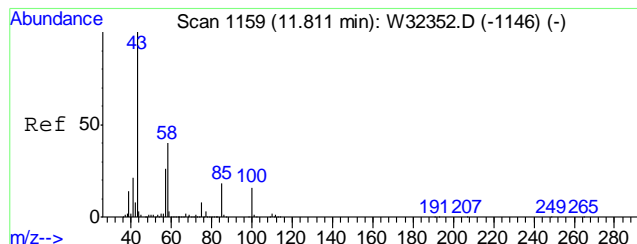
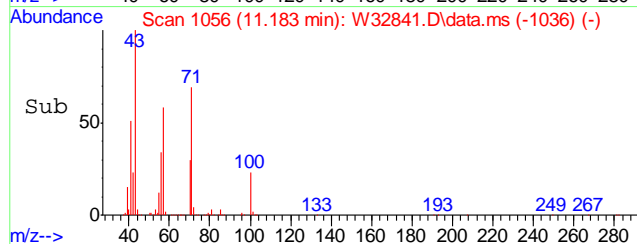
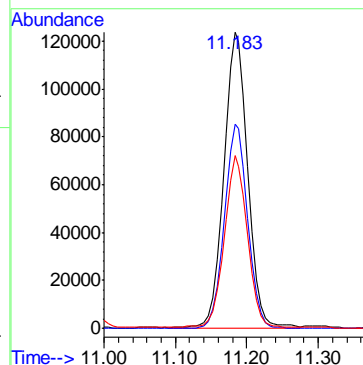
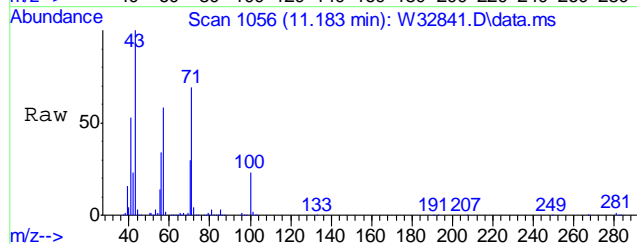
Tgt Ion	Ratio	Lower	Upper
57	100		
56	38.2	13.5	53.5
99	6.5	0.0	27.7





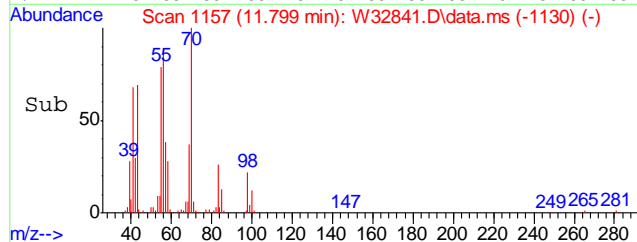
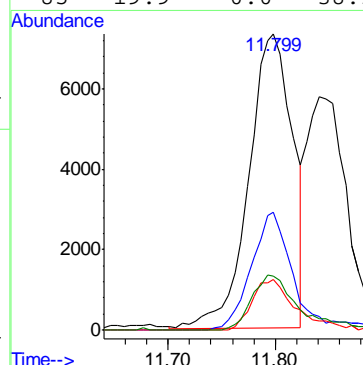
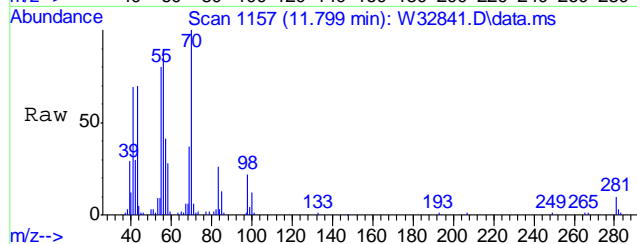
#62
HEPTANE
Concen: 8.49 PPBV
RT: 11.183 min Scan# 1056
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

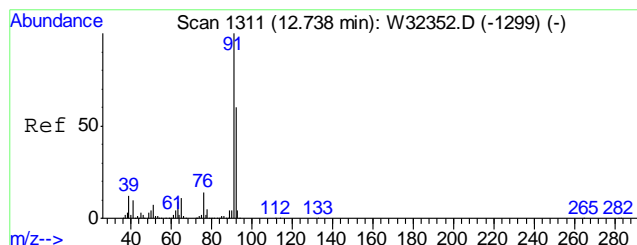
Tgt Ion	Ratio	Lower	Upper
43	100		
71	67.7	41.6	81.6
57	56.3	34.6	74.6



#64
METHYL ISOBUTYL KETONE
Concen: 0.57 PPBV
RT: 11.799 min Scan# 1157
Delta R.T. -0.012 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.4	20.7	60.7
100	17.0	0.0	36.0
85	19.9	0.0	38.1

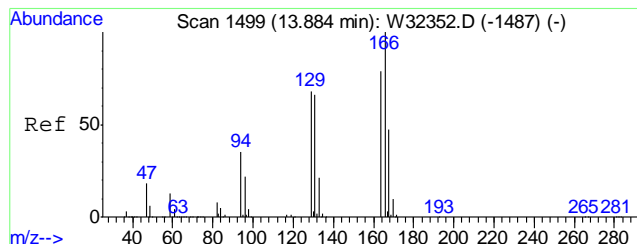
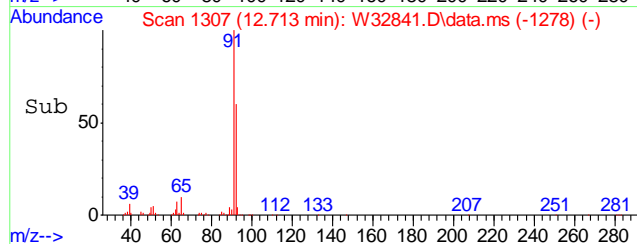
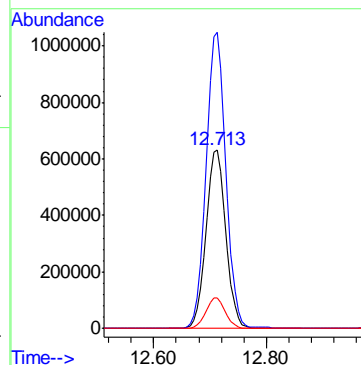
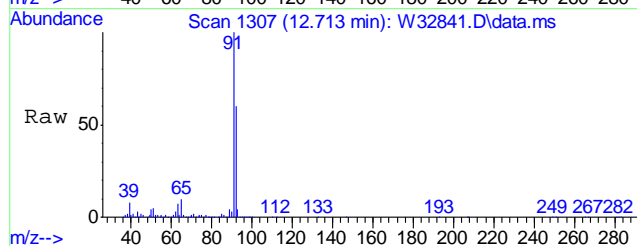




#66
TOLUENE
Concen: 44.22 PPBV
RT: 12.713 min Scan# 1307
Delta R.T. -0.024 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

Tgt Ion: 92 Resp: 1555271

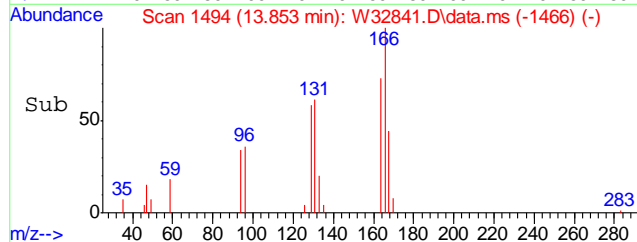
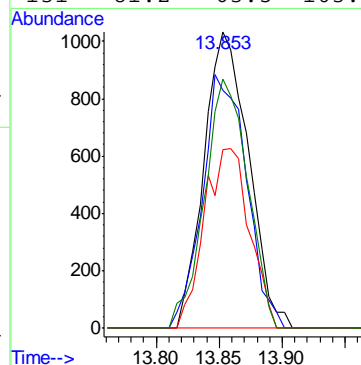
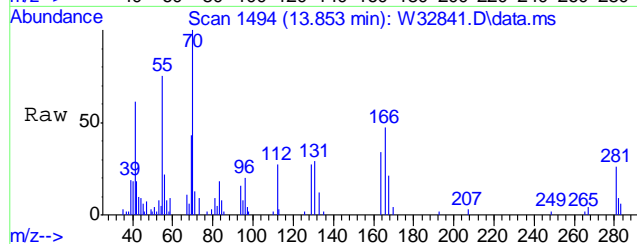
Ion	Ratio	Lower	Upper
92	100		
91	165.6	146.2	186.2
65	17.0	0.4	40.4

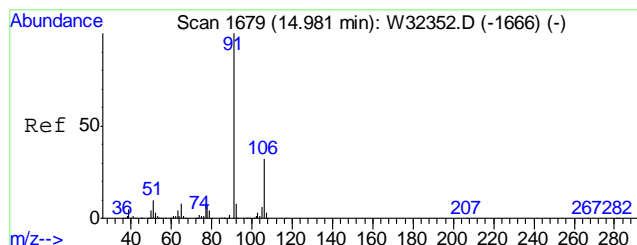


#72
TETRACHLOROETHYLENE
Concen: 0.12 PPBV
RT: 13.853 min Scan# 1494
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

Tgt Ion: 164 Resp: 2539

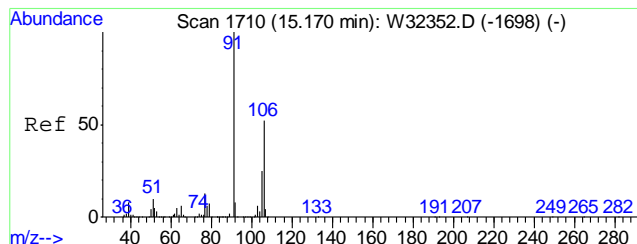
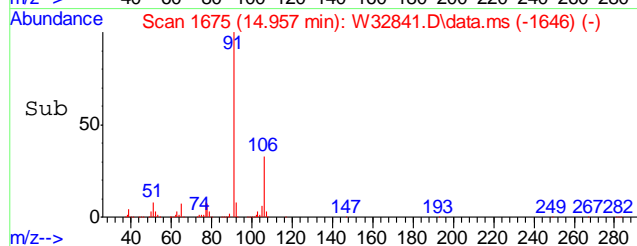
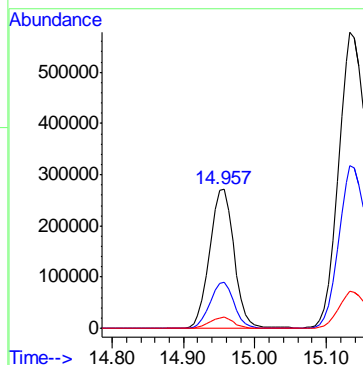
Ion	Ratio	Lower	Upper
164	100		
129	84.7	66.3	106.3
168	61.4	41.0	81.0
131	81.2	63.5	103.5





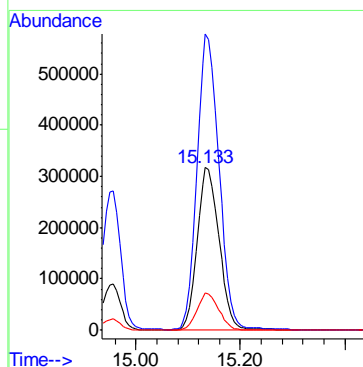
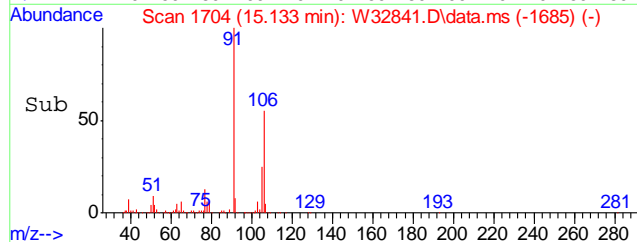
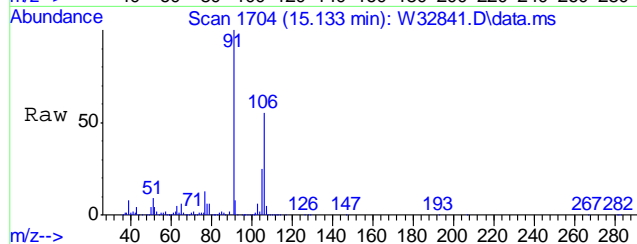
#78
ETHYLBENZENE
Concen: 9.91 PPBV
RT: 14.957 min Scan# 1675
Delta R.T. -0.024 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

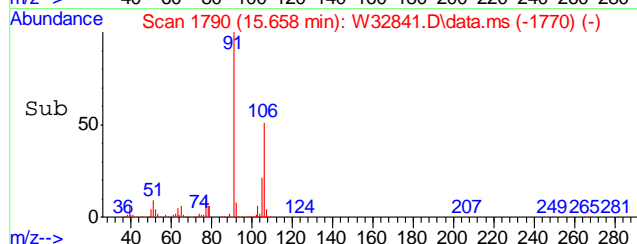
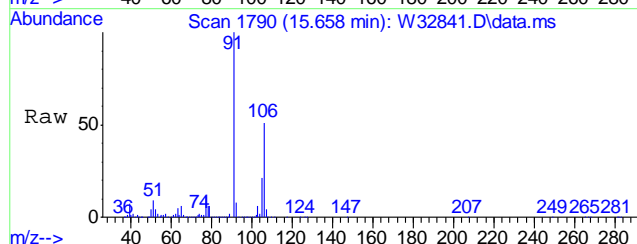
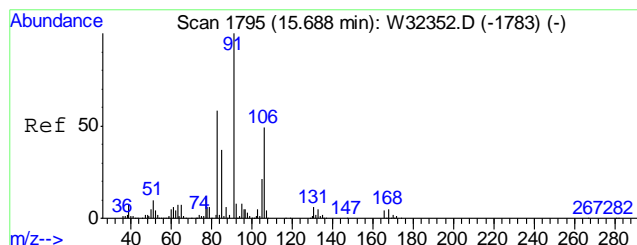
Tgt Ion:	91	Resp:	643795
Ion Ratio	Lower	Upper	
91	100		
106	32.6	11.7	51.7
77	7.7	0.0	28.1



#79
m,p-XYLENE
Concen: 36.66 PPBV
RT: 15.133 min Scan# 1704
Delta R.T. -0.037 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

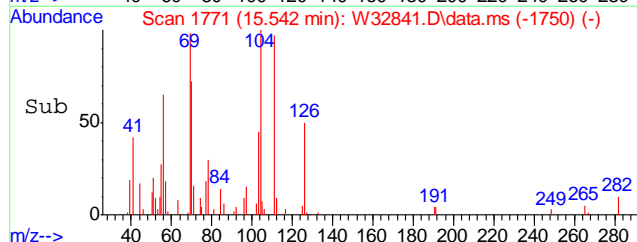
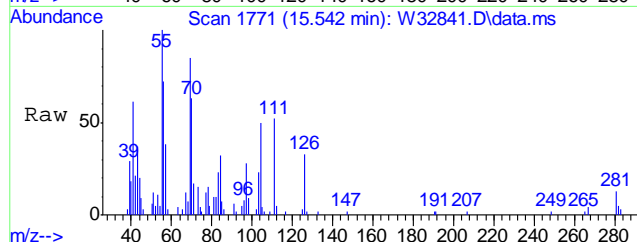
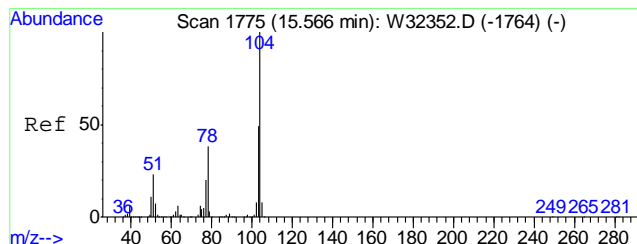
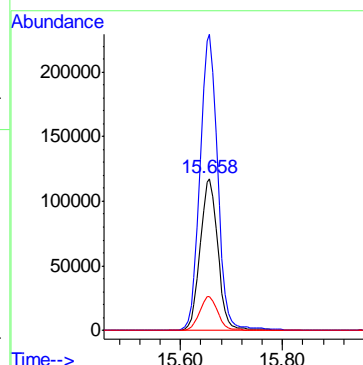
Tgt Ion:	106	Resp:	924039
Ion Ratio	Lower	Upper	
106	100		
91	182.3	152.6	228.8
77	22.9	19.9	29.9





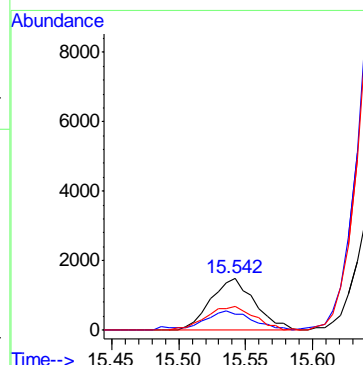
#80
o-XYLENE
Concen: 11.60 PPBV
RT: 15.658 min Scan# 1790
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

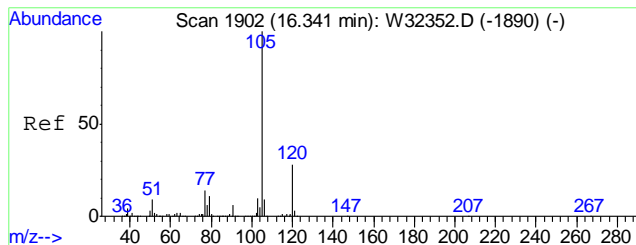
Tgt Ion:	106	Resp:	282371
Ion Ratio	Lower	Upper	
106	100		
91	194.7	182.1	222.1
77	22.7	4.0	44.0



#81
STYRENE
Concen: 0.10 PPBV
RT: 15.542 min Scan# 1771
Delta R.T. -0.024 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

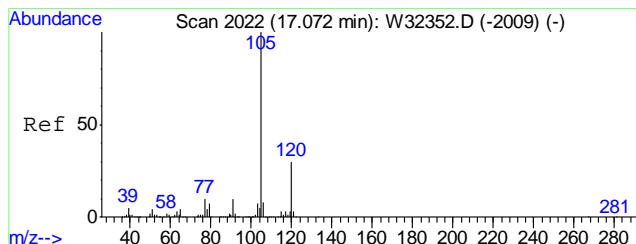
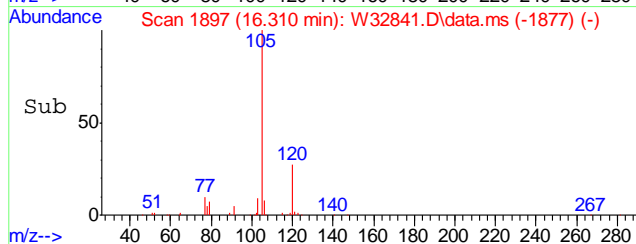
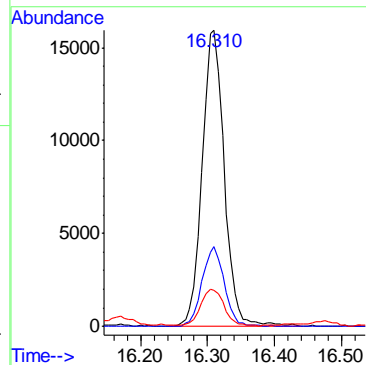
Tgt Ion:	104	Resp:	3400
Ion Ratio	Lower	Upper	
104	100		
78	40.1	18.2	58.2
103	49.5	28.2	68.2





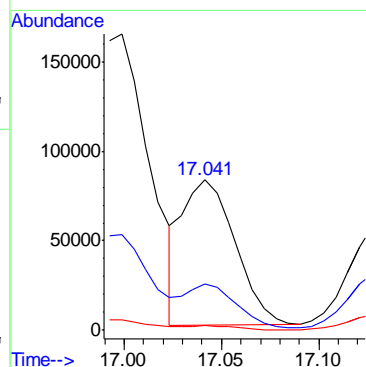
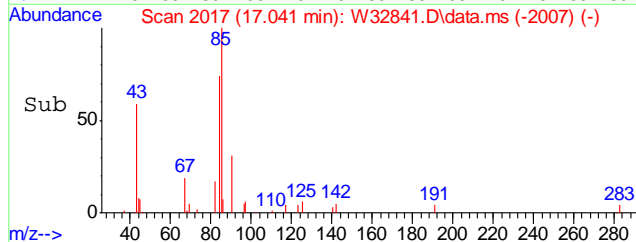
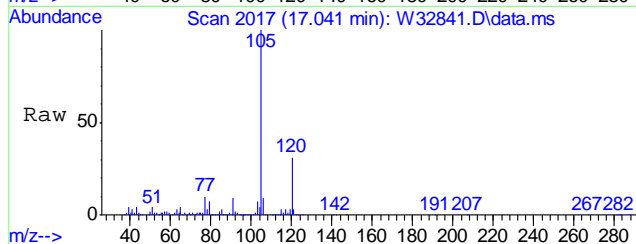
#87
ISOPROPYLBENZENE
Concen: 0.53 PPBV
RT: 16.310 min Scan# 1897
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

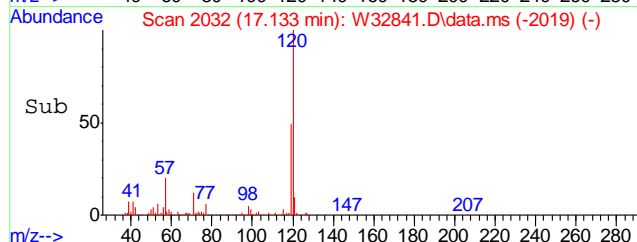
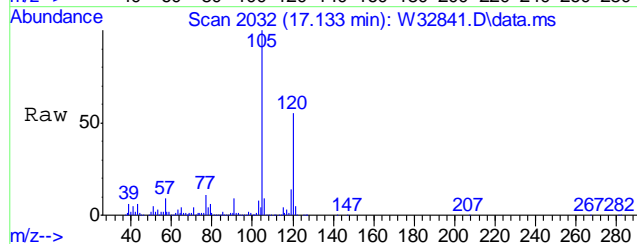
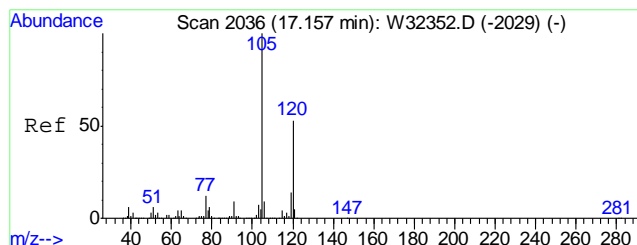
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	6.9	46.9
77	13.9	0.0	33.9



#91
4-ETHYLTOLUENE
Concen: 2.67 PPBV
RT: 17.041 min Scan# 2017
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

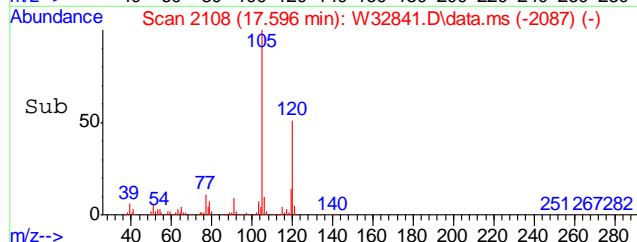
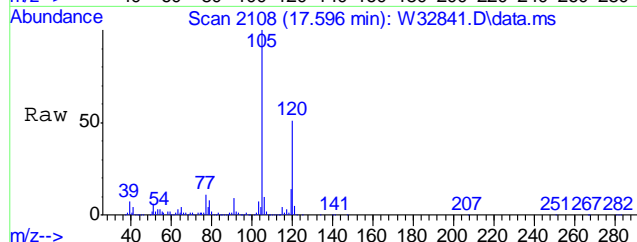
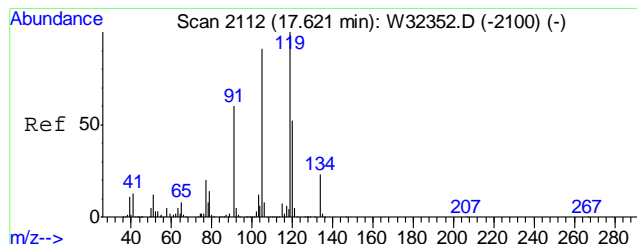
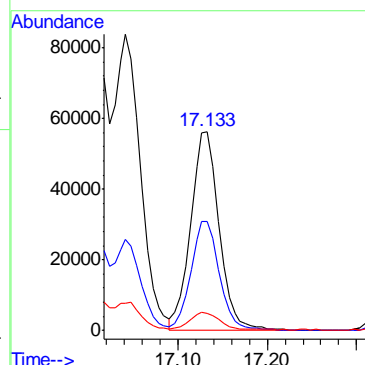
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.5	9.8	49.8
119	2.3	0.0	22.9





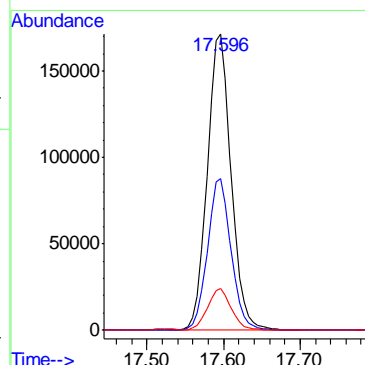
#92
1,3,5-TRIMETHYLBENZENE
Concen: 2.64 PPBV
RT: 17.133 min Scan# 2032
Delta R.T. -0.024 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

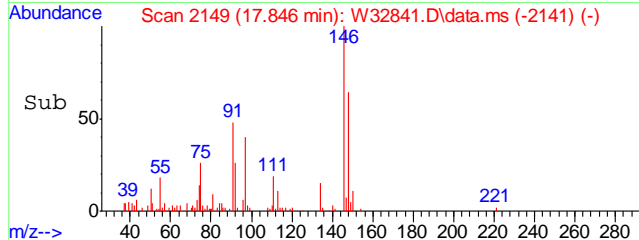
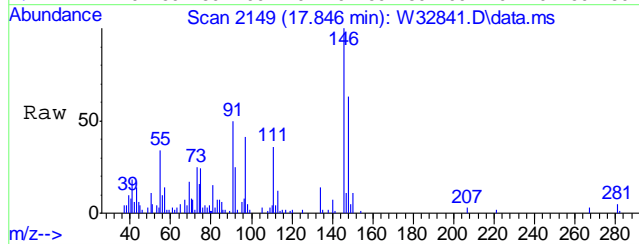
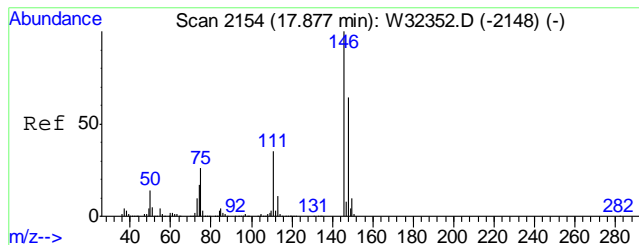
Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.2	32.9	72.9
91	8.8	0.0	29.3



#95
1,2,4-TRIMETHYLBENZENE
Concen: 8.55 PPBV
RT: 17.596 min Scan# 2108
Delta R.T. -0.025 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

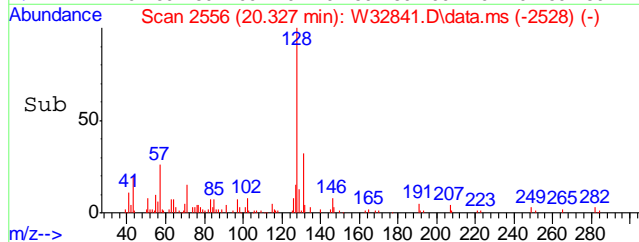
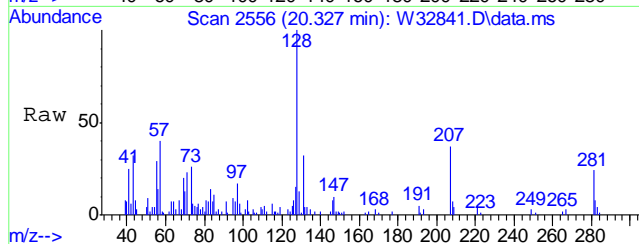
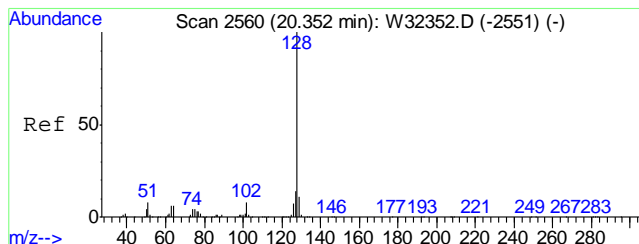
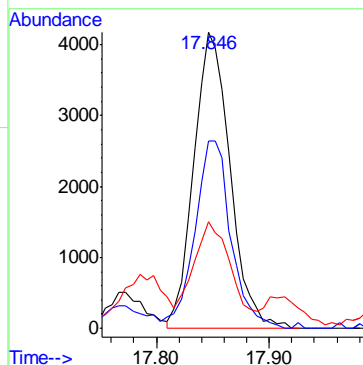
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.7	39.3	79.3
119	14.0	101.1	141.1#





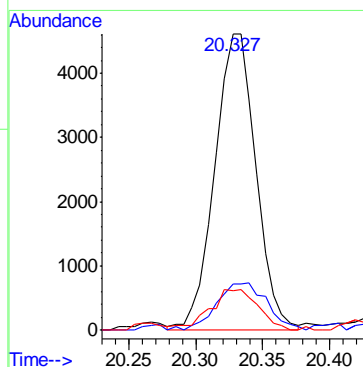
#98
p-DICHLOROBENZENE
Concen: 0.37 PPBV
RT: 17.846 min Scan# 2149
Delta R.T. -0.031 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

Tgt Ion:	146	Resp:	9378
Ion Ratio	Lower	Upper	
146	100		
148	63.2	43.6	83.6
111	30.0	15.4	55.4



#107
NAPHTHALENE
Concen: 1.01 PPBV
RT: 20.327 min Scan# 2556
Delta R.T. -0.025 min
Lab File: W32841.D
Acq: 21 Jul 2011 6:25 pm

Tgt Ion:	128	Resp:	9858
Ion Ratio	Lower	Upper	
128	100		
127	19.4	0.0	34.3
129	16.1	0.0	30.7



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32412.D Vial: 5
 Acq On : 24 Jun 2011 5:12 am Operator: YOUMINH
 Sample : SCC(A255) Inst : MSW
 Misc : MS14369,VW1324,400,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 24 08:08:34 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.61	128	156154	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.29	114	790929	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.54	82	354391	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.54	82	353094	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.19	95	175366	4.58	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	91.60%

Target Compounds

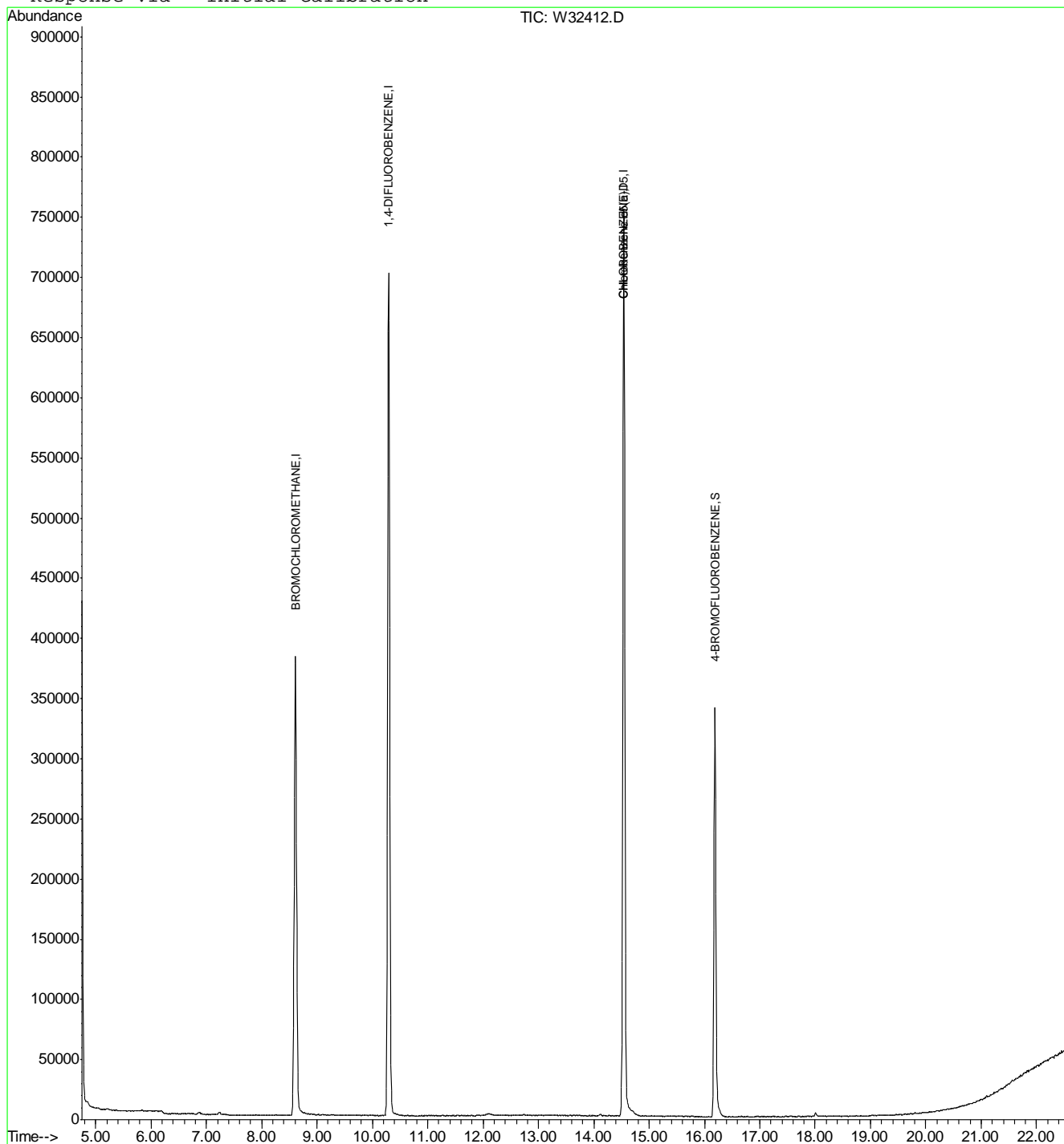
Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 W32412.D MW1322.M Tue Aug 16 08:56:12 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32412.D Vial: 5
Acq On : 24 Jun 2011 5:12 am Operator: YOUMINH
Sample : SCC(A255) Inst : MSW
Misc : MS14369,VW1324,400,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: MW1322.RES

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23024.D Vial: 8
Acq On : 24 Jun 2011 2:44 pm Operator: yunxiac
Sample : SCC(A377) Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 08:49:49 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	86776	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.01	114	393541	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.30	82	182132	10.00	PPBV	-0.02
105) CHLOROBENZENE-D5 (a)	13.30	82	182132	10.00	PPBV	-0.02

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.96	95	78306	4.07	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	81.40%

Target Compounds

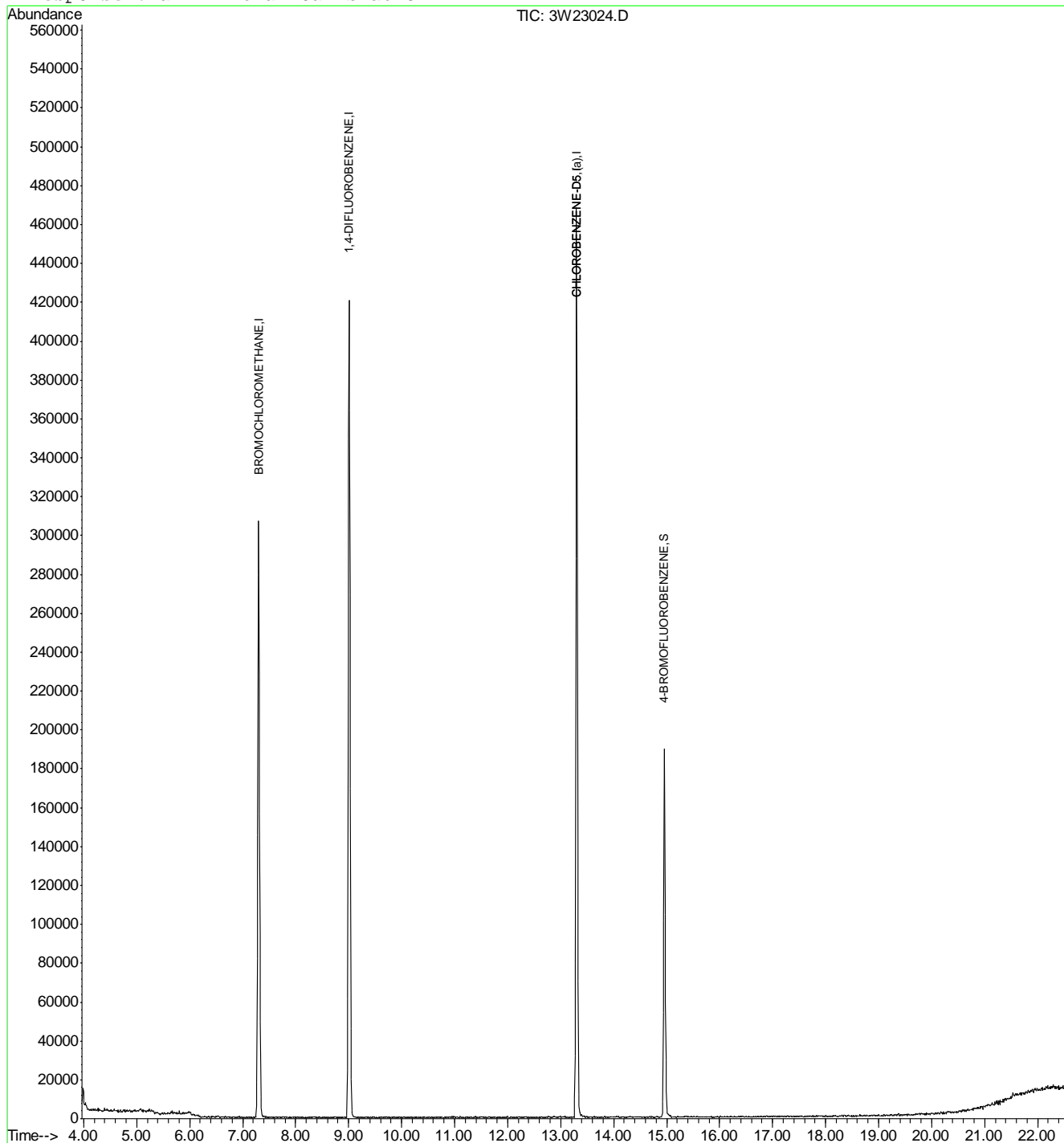
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W23024.D M3W886.M Tue Aug 16 09:16:07 2011 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23024.D Vial: 8
Acq On : 24 Jun 2011 2:44 pm Operator: yunxiac
Sample : SCC(A377) Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 1:38 2011 Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration



BFB

Data File : C:\MSDCHEM\1\DATA\3W22414.D

Acq On : 13 May 2011 9:13 am

Sample : bfb

Misc : MS12271,V3W886,,,,,1

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)

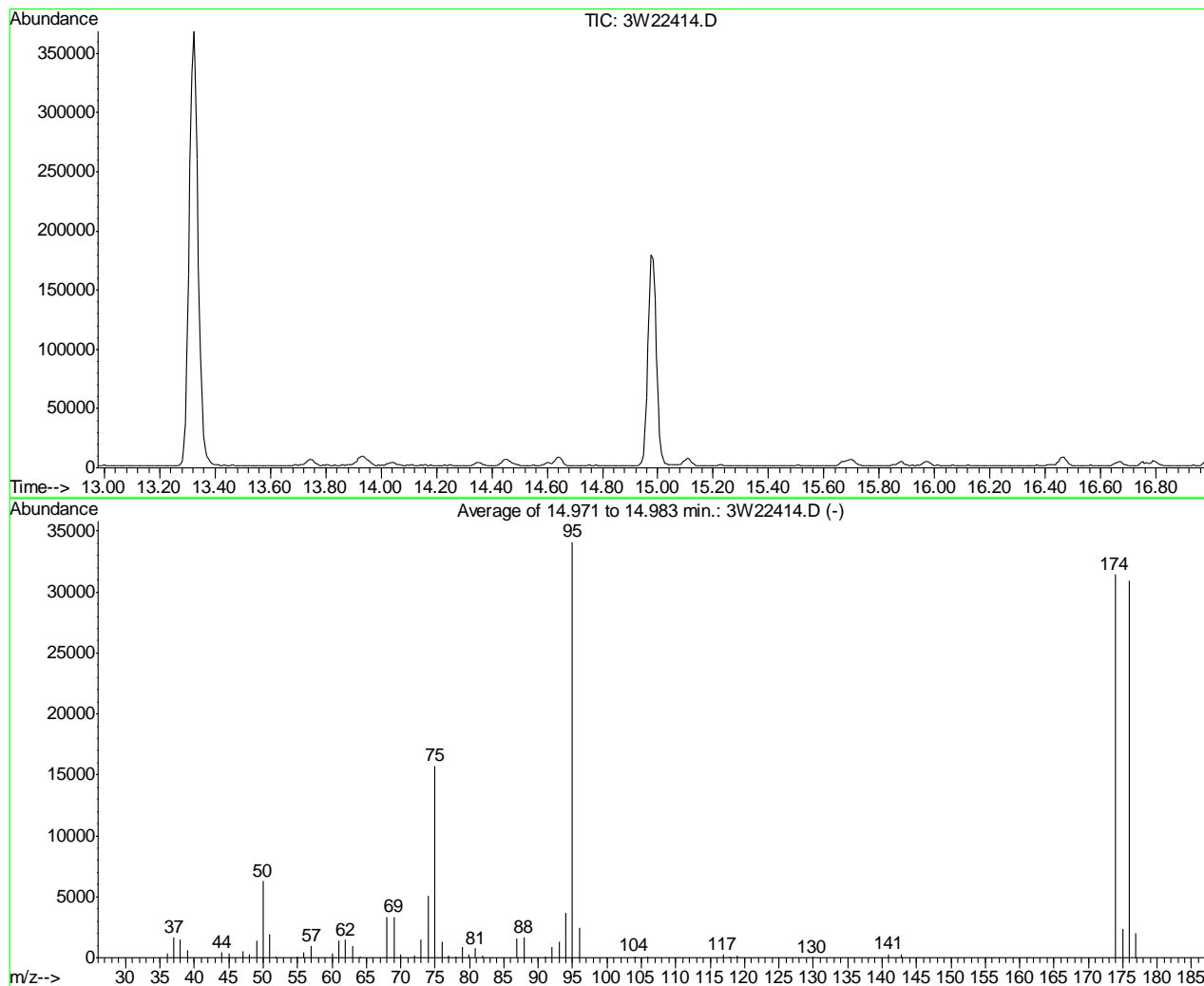
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

Vial: 5

Operator: yunxiac

Inst : MS3W

Multiplr: 1.00



AutoFind: Scans 1815, 1816, 1817; Background Corrected with Scan 1806

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.4	6263	PASS
75	95	30	66	46.1	15734	PASS
95	95	100	100	100.0	34112	PASS
96	95	5	9	7.3	2481	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.1	31432	PASS
175	174	4	9	7.5	2371	PASS
176	174	93	101	98.4	30914	PASS
177	176	5	9	6.5	2014	PASS

Average of 14.971 to 14.983 min.: 3W22414.D

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	370	51.90	53	70.00	231	81.90	169
37.00	1654	55.00	59	72.00	135	86.95	1548
38.00	1504	55.95	456	73.00	1498	87.95	1621
39.05	592	57.05	954	74.00	5099	91.00	66
44.00	400	60.00	338	75.00	15734	92.00	850
45.05	372	61.00	1445	76.00	1328	93.00	1276
47.00	536	62.00	1464	77.00	193	94.00	3706
47.95	225	63.05	986	78.00	109	95.00	34112
49.00	1435	64.10	58	78.90	852	96.00	2481
50.00	6263	68.00	3327	79.85	272	104.05	109
51.00	1936	69.00	3358	80.90	782	105.90	63

Average of 14.971 to 14.983 min.: 3W22414.D

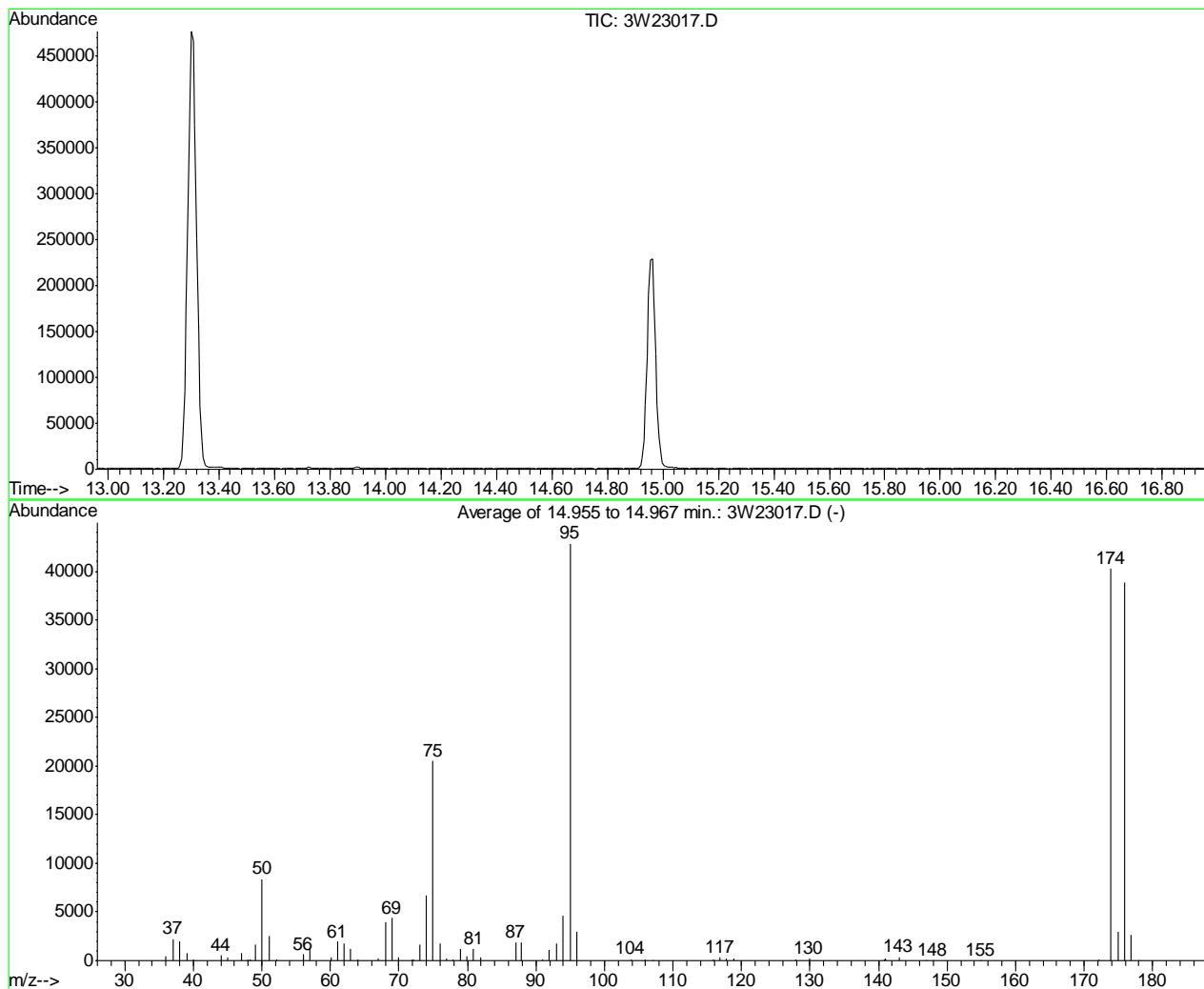
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.85	222						
117.90	56						
118.95	184						
129.90	52						
140.95	308						
142.80	252						
173.90	31432						
174.95	2371						
175.90	30914						
176.95	2014						

BFB

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23017.D Vial: 5
Acq On : 24 Jun 2011 8:46 am Operator: yunxiac
Sample : BFB Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 1807, 1808, 1809; Background Corrected with Scan 1797

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	8359	PASS
75	95	30	66	47.8	20474	PASS
95	95	100	100	100.0	42848	PASS
96	95	5	9	7.0	3006	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.9	40234	PASS
175	174	4	9	7.3	2935	PASS
176	174	93	101	96.5	38826	PASS
177	176	5	9	6.7	2598	PASS

3W23017.D M3W886.M Tue Aug 16 09:30:54 2011 MS3W

Average of 14.955 to 14.967 min.: 3W23017.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	392	50.00	8359	68.00	3943	78.90	1166
37.05	2245	51.05	2551	69.00	4339	79.95	426
38.00	1986	52.10	60	69.95	280	80.90	1170
39.05	783	56.05	622	71.90	138	82.00	285
39.95	123	57.00	1202	72.10	82	87.00	1915
44.00	546	60.05	377	73.00	1689	87.90	1848
45.05	309	61.00	1928	74.00	6751	90.95	166
47.00	719	62.00	1740	75.00	20474	91.95	1057
47.95	168	63.00	1252	76.05	1735	93.00	1787
48.20	89	64.05	132	77.00	266	94.00	4652
49.00	1661	66.95	203	77.95	154	95.00	42848

Average of 14.955 to 14.967 min.: 3W23017.D

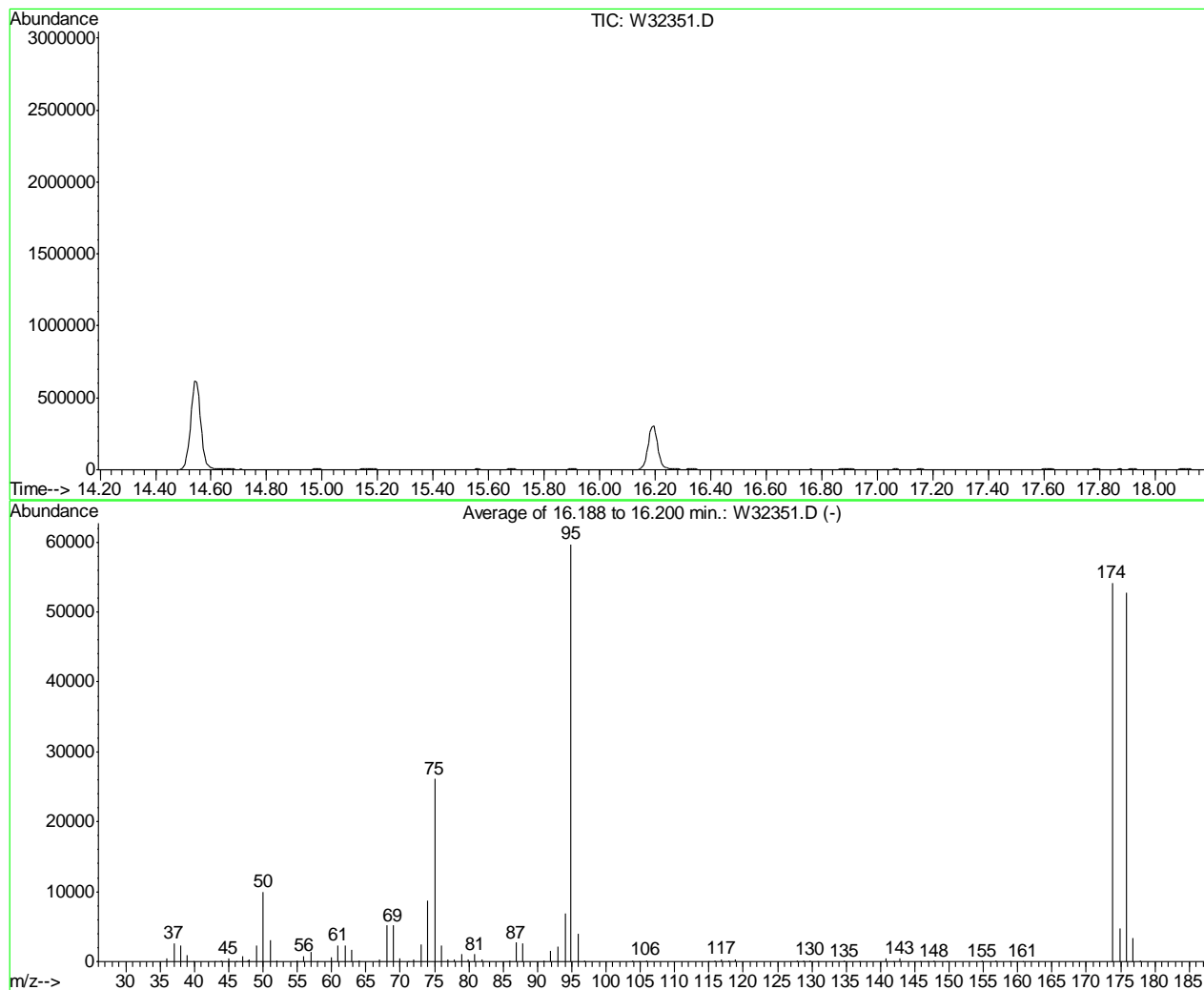
BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	3006	141.00	269				
103.90	124	142.95	359				
105.90	117	146.90	54				
107.00	52	148.00	50				
115.85	157	154.90	53				
116.90	311	172.10	72				
117.85	175	173.90	40234				
118.90	242	174.95	2935				
127.85	129	175.90	38826				
129.90	184	176.90	2598				
140.80	93	177.90	55				

BFB

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32351.D Vial: 5
Acq On : 21 Jun 2011 4:40 pm Operator: YOUMINH
Sample : BFB Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um



AutoFind: Scans 1877, 1878, 1879; Background Corrected with Scan 1865

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.7	9991	PASS
75	95	30	66	43.7	26117	PASS
95	95	100	100	100.0	59717	PASS
96	95	5	9	6.6	3967	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	90.8	54200	PASS
175	174	4	9	8.8	4795	PASS
176	174	93	101	97.3	52714	PASS
177	176	5	9	6.5	3429	PASS

W32351.D MW1322.M Tue Aug 16 08:49:47 2011 MSW

Average of 16.188 to 16.200 min.: W32351.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	536	48.00	245	62.00	2325	75.00	26117
37.00	2604	49.00	2320	62.95	1690	76.00	2274
38.00	2239	50.00	9991	63.95	194	76.95	357
39.00	885	51.00	3044	67.00	239	77.85	279
39.90	13	51.95	145	68.00	5135	78.90	1045
42.95	32	54.95	199	68.95	5191	79.90	356
43.95	191	55.95	771	69.90	440	80.90	1071
45.00	439	57.00	1353	71.20	17	81.85	251
46.10	16	57.90	30	71.95	315	86.00	114
47.00	824	59.95	565	73.00	2423	86.90	2700
47.80	147	60.95	2356	74.00	8789	87.90	2573

Average of 16.188 to 16.200 min.: W32351.D

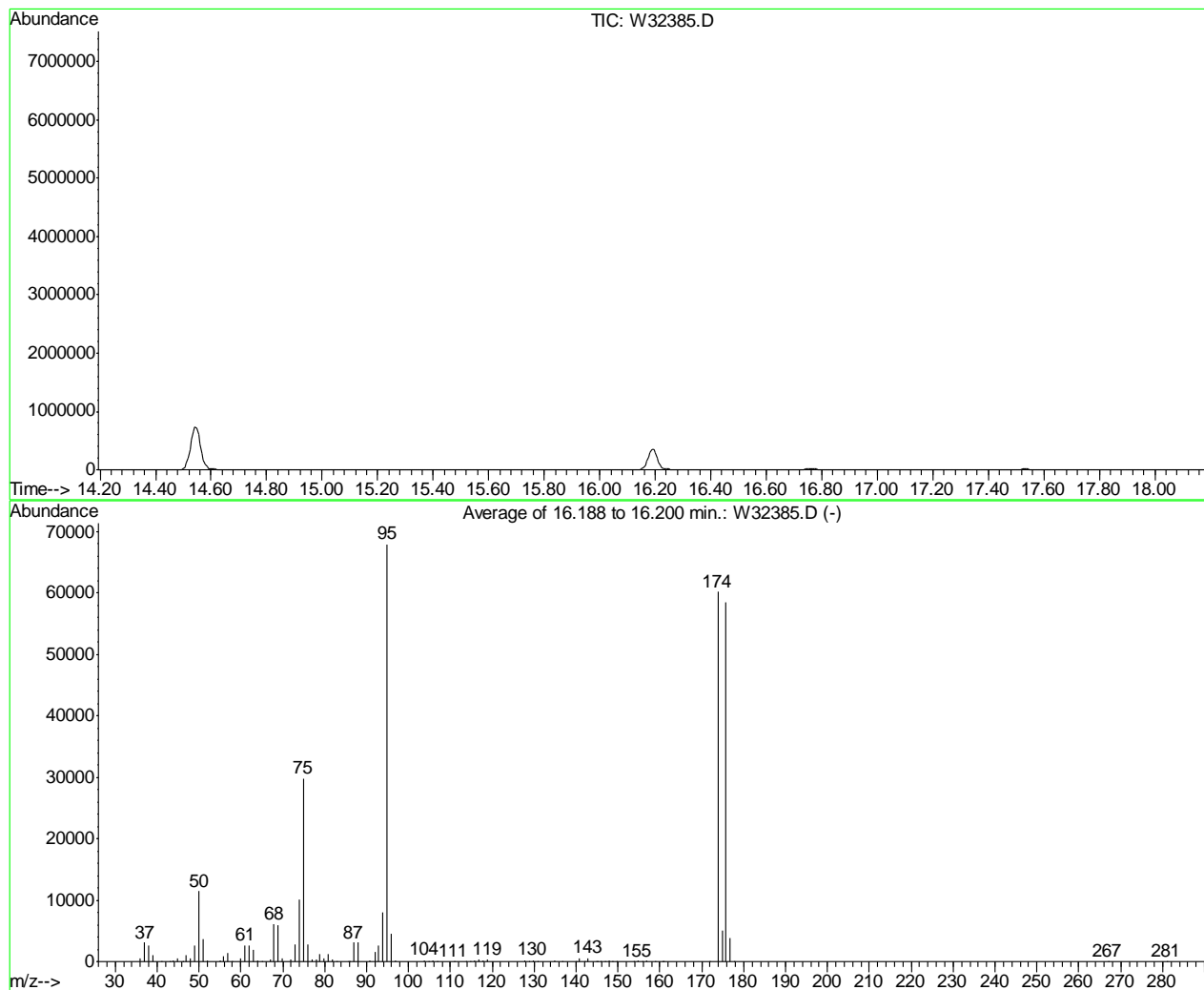
BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.90	185	115.80	152	141.90	67	174.90	4795
91.90	1495	116.85	309	142.85	439	175.80	52714
92.95	2164	117.85	184	145.75	79	176.80	3429
94.00	6866	118.80	290	146.80	16	177.85	85
94.90	59717	127.85	160	147.85	120		
95.90	3967	128.75	90	149.75	42		
96.95	136	129.75	196	154.85	127		
103.85	188	130.80	57	156.80	85		
104.85	73	134.80	87	158.80	37		
105.85	200	136.85	75	160.75	57		
114.90	43	140.80	436	173.80	54200		

BFB

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32385.D Vial: 5
Acq On : 23 Jun 2011 8:24 am Operator: YOUMINH
Sample : BFB Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um



AutoFind: Scans 1877, 1878, 1879; Background Corrected with Scan 1865

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	11481	PASS
75	95	30	66	43.9	29853	PASS
95	95	100	100	100.0	67986	PASS
96	95	5	9	6.7	4538	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.5	60200	PASS
175	174	4	9	8.5	5109	PASS
176	174	93	101	97.2	58517	PASS
177	176	5	9	6.4	3752	PASS

W32385.D MW1322.M Tue Aug 16 09:10:01 2011 MSW

Average of 16.188 to 16.200 min.: W32385.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	613	49.00	2686	62.95	1939	75.90	2718
37.00	3108	50.00	11481	63.90	204	76.95	437
38.00	2561	51.00	3675	64.90	22	77.90	324
38.95	1007	51.90	181	67.05	286	78.85	1250
41.00	33	54.95	233	67.90	6043	79.90	476
43.05	85	55.95	835	68.95	5999	80.90	1247
43.90	252	56.95	1465	69.90	446	81.85	363
44.95	532	57.90	66	71.95	422	82.90	35
46.10	56	59.95	602	72.95	2818	85.80	93
46.95	1019	60.95	2692	73.95	10048	86.00	39
47.95	449	61.95	2679	74.90	29853	86.90	3104

Average of 16.188 to 16.200 min.: W32385.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.90	3094	106.90	16	130.75	70	147.85	132
90.85	246	110.85	44	134.80	101	148.75	42
91.95	1612	113.80	18	136.75	88	149.75	62
92.90	2661	114.80	74	140.10	27	153.80	19
93.95	7964	115.75	190	140.85	469	154.80	157
94.90	67986	116.80	290	141.95	42	155.90	21
95.90	4538	117.80	201	142.85	547	156.85	116
96.95	156	118.85	307	144.80	20	158.75	71
103.85	204	127.75	186	145.00	21	160.60	17
104.85	83	128.85	84	145.80	88	160.90	40
105.85	194	129.75	232	146.90	20	171.80	57

Average of 16.188 to 16.200 min.: W32385.D

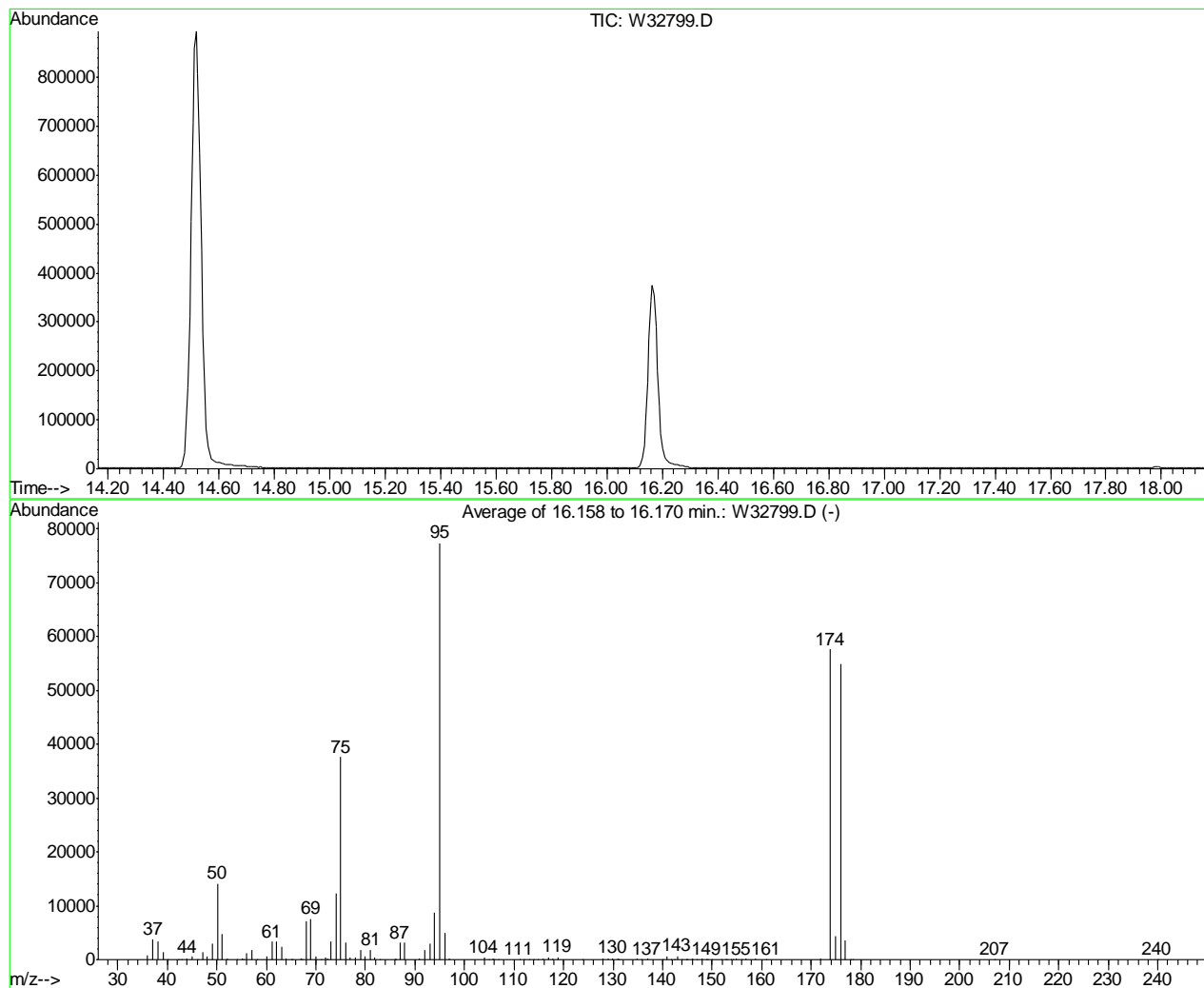
BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.80	60200						
174.90	5109						
175.80	58517						
176.80	3752						
177.75	89						
267.00	20						
281.00	18						

BFB

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32799.D Vial: 5
Acq On : 20 Jul 2011 7:29 am Operator: YOUMINH
Sample : BFB Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um



AutoFind: Scans 1872, 1873, 1874; Background Corrected with Scan 1861

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	14172	PASS
75	95	30	66	48.6	37602	PASS
95	95	100	100	100.0	77381	PASS
96	95	5	9	6.4	4981	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	74.4	57605	PASS
175	174	4	9	7.6	4396	PASS
176	174	93	101	95.4	54973	PASS
177	176	5	9	6.6	3629	PASS

W32799.D MW1322.M Wed Aug 17 14:37:17 2011 MSW

Average of 16.158 to 16.170 min.: W32799.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	736	48.05	505	60.10	698	70.05	638
37.10	3739	49.05	3057	61.10	3369	71.00	17
38.10	3451	50.10	14172	62.00	3292	71.95	424
39.10	1467	51.10	4735	63.05	2467	72.30	133
40.00	32	52.05	214	64.05	263	73.00	3323
42.15	52	54.10	42	65.00	85	74.05	12197
42.95	6	55.10	190	65.20	35	75.00	37602
44.00	298	55.30	37	67.00	234	76.00	3125
45.05	647	56.05	1100	67.30	81	76.95	406
46.00	41	57.05	1885	68.00	7237	77.95	432
47.05	1472	58.15	65	69.00	7624	79.00	1831

Average of 16.158 to 16.170 min.: W32799.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	699	93.00	2946	111.90	19	129.95	263
81.00	1890	94.00	8795	113.05	39	130.95	114
81.90	375	95.00	77381	114.05	38	131.20	22
82.95	43	96.00	4981	114.90	89	134.90	130
85.85	52	97.00	157	115.95	260	135.75	37
86.00	22	103.95	305	117.00	379	136.90	157
86.20	51	105.00	81	117.90	229	139.95	85
86.95	3140	105.80	193	118.90	403	140.95	668
87.95	3120	106.00	72	123.90	37	141.80	72
90.95	294	106.85	69	127.85	232	142.30	47
92.00	1880	111.05	70	128.95	125	142.95	669

Average of 16.158 to 16.170 min.: W32799.D

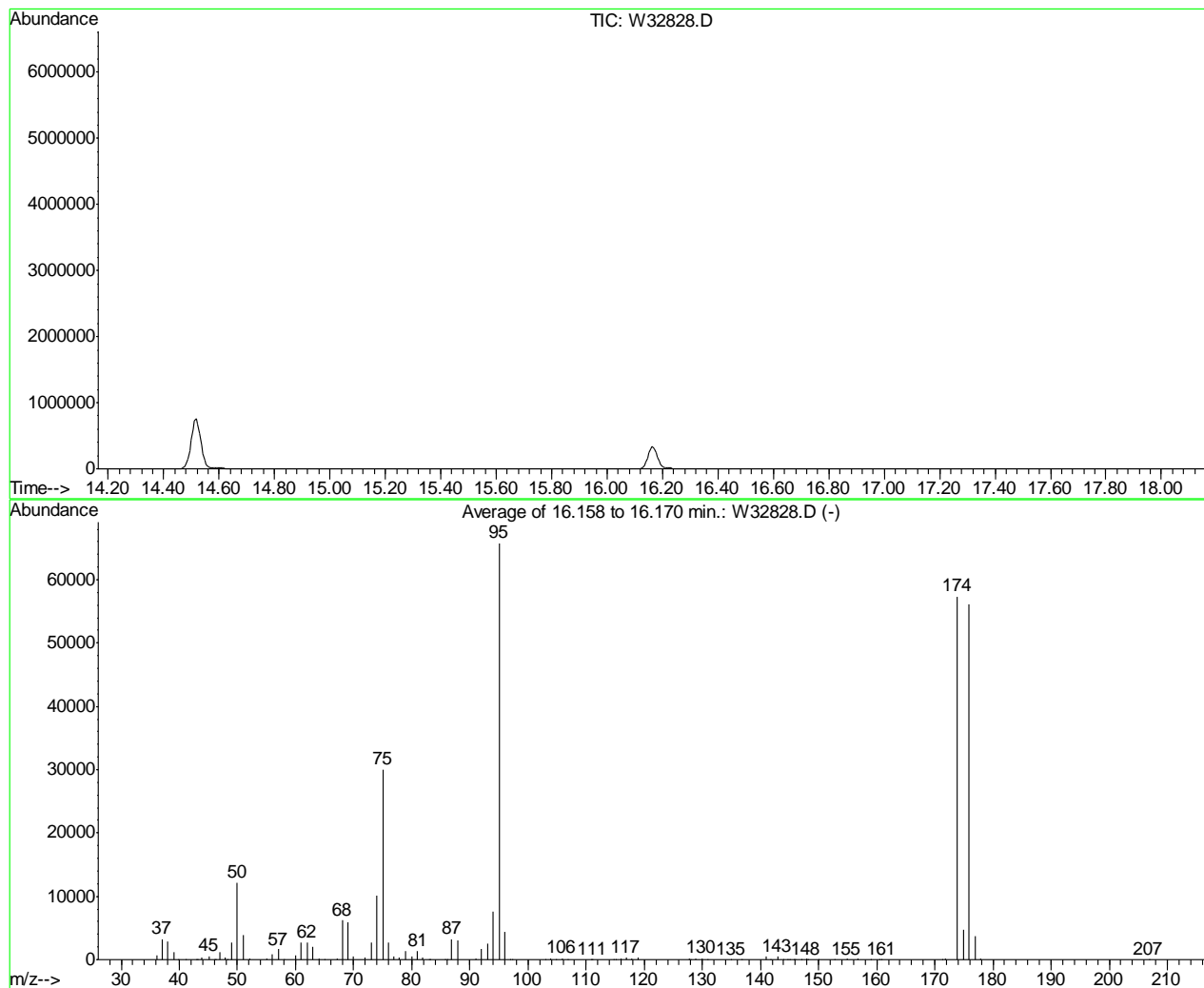
BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
143.90	40	153.00	18	175.90	54973		
144.80	31	153.90	16	176.90	3629		
145.00	73	154.20	34	177.85	86		
146.00	118	154.90	145	178.30	26		
146.90	45	155.90	35	207.05	41		
147.90	217	156.85	140	239.90	17		
148.90	28	158.85	121				
149.10	18	160.95	71				
149.90	23	171.85	166				
151.80	23	173.90	57605				
152.70	19	174.95	4396				

BFB

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32828.D Vial: 5
Acq On : 21 Jul 2011 8:33 am Operator: YOUMINH
Sample : BFB Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um



AutoFind: Scans 1872, 1873, 1874; Background Corrected with Scan 1861

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	12192	PASS
75	95	30	66	45.7	30080	PASS
95	95	100	100	100.0	65802	PASS
96	95	5	9	6.6	4340	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	87.1	57301	PASS
175	174	4	9	8.2	4706	PASS
176	174	93	101	98.0	56128	PASS
177	176	5	9	6.6	3695	PASS

Average of 16.158 to 16.170 min.: W32828.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	644	46.30	26	57.95	56	71.95	334
37.05	3228	47.00	1203	59.95	610	73.00	2770
38.00	2848	47.95	376	61.00	2694	74.00	10092
39.05	1153	48.20	89	62.00	2753	75.00	30080
39.90	17	49.00	2675	63.00	2045	76.00	2665
41.05	41	50.00	12192	64.05	195	76.90	449
42.90	21	51.00	3874	65.05	72	77.90	354
43.20	17	52.05	173	67.15	239	78.90	1327
43.90	324	55.00	200	68.00	6207	79.95	525
45.05	556	56.00	897	69.00	5961	80.95	1353
46.00	24	57.00	1653	70.00	532	81.90	379

Average of 16.158 to 16.170 min.: W32828.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.90	21	96.00	4340	115.00	16	136.80	67
83.20	16	96.90	31	115.95	193	140.90	477
85.80	36	97.20	86	116.90	321	141.75	74
86.10	64	103.00	16	117.90	170	142.90	501
86.90	3241	103.85	207	118.85	316	143.90	18
87.90	3106	104.75	83	127.80	98	144.70	43
90.95	196	105.90	214	128.00	45	145.10	27
92.00	1711	106.80	41	128.90	127	145.80	62
93.00	2551	110.90	23	129.90	207	146.00	30
94.00	7516	111.10	24	130.95	78	147.00	34
95.00	65802	114.75	41	134.95	83	147.90	106

Average of 16.158 to 16.170 min.: W32828.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.10	40	174.90	4706				
149.90	30	175.90	56128				
152.80	23	176.90	3695				
154.90	141	177.85	123				
156.85	112	206.80	17				
158.90	84						
160.50	19						
160.85	56						
171.20	17						
171.90	121						
173.90	57301						

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22416.D
 Acq On : 13 May 2011 10:33 am
 Sample : ic886-5
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 13:58:52 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 13:58:46 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	89922	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	9.01	114	396390	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	186567	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	186567	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE 14.98 95 111032 5.25 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 105.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	3.98	67	19610	5.79	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.05	85	187980	6.07	PPBV	99
6) PROPYLENE	4.00	41	72009	5.51	PPBV	97
7) FREON 114	4.21	85	208902	5.93	PPBV	100
8) CHLOROMETHANE	4.15	50	76607	5.75	PPBV	100
9) VINYL CHLORIDE	4.29	62	83131	5.93	PPBV	100
10) 1,3-BUTADIENE	4.37	54	62595	5.89	PPBV	98
11) n-BUTANE	4.39	43	130876	5.82	PPBV	100
12) BROMOMETHANE	4.54	94	73544	5.78	PPBV	98
13) CHLOROETHANE	4.64	64	43254	5.91	PPBV	99
14) DICHLOROFLUOROMETHANE	4.69	67	168133	5.95	PPBV	99
15) ACETONITRILE	4.88	41	57192	4.96	PPBV	99
16) FREON 123	4.93	83	170682	6.08	PPBV	100
17) FREON 123A	4.97	117	94187	6.26	PPBV	99
18) TRICHLOROFLUOROMETHANE	5.12	101	176756	5.96	PPBV	99
19) ISOPROPYL ALCOHOL	5.17	45	112698	5.30	PPBV	98
20) ACETONE	5.01	58	25076	4.89	PPBV	98
21) PENTANE	5.31	42	90547	5.83	PPBV	100
22) TVHC as EQUIV PENTANE	5.31	TIC	516096m	5.87	PPBV	
23) IODOMETHANE	5.50	142	196475	6.06	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.55	96	71878	5.98	PPBV	98
25) CARBON DISULFIDE	5.85	76	188984	5.99	PPBV	100
26) ETHANOL	4.73	45	29294	4.75	PPBV	99
27) BROMOETHENE	4.86	106	73258	5.93	PPBV	99
28) ACRYLONITRILE	5.33	52	39907	5.53	PPBV	98
29) METHYLENE CHLORIDE	5.64	84	67585	6.02	PPBV	99
30) 3-CHLOROPROPENE	5.71	76	33803	6.13	PPBV	99
31) FREON 113	5.80	151	120495	6.10	PPBV	100
32) TRANS-1,2-DICHLOROETHYLENE	6.29	96	69300	6.03	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.57	59	130679	5.87	PPBV	98
34) METHYL TERTIARY BUTYL ETHER	6.47	73	133663	5.23	PPBV	98
35) TETRAHYDROFURAN	7.73	72	24621	5.42	PPBV	99
36) HEXANE	7.23	57	118106	6.09	PPBV	100
37) VINYL ACETATE	6.57	86	12278	5.74	PPBV	97
38) 1,1-DICHLOROETHANE	6.47	63	136944	6.39	PPBV	99
39) METHYL ETHYL KETONE	6.76	72	24749	5.63	PPBV #	88
40) cis-1,2-DICHLOROETHYLENE	7.18	96	73588	6.11	PPBV	98
41) DIISOPROPYL ETHER	7.24	45	180155	5.45	PPBV	100
42) ETHYL ACETATE	7.31	61	16202	5.59	PPBV	99
43) METHYL ACRYLATE	7.32	55	91706	5.39	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W22416.D M3W886.M

Mon May 16 12:43:28 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22416.D
 Acq On : 13 May 2011 10:33 am
 Sample : ic886-5
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 13:58:52 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 13:58:46 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CHLOROFORM	7.39	83	144087	6.16	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.98	57	147335	6.30	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.25	97	138398	6.37	PPBV	99
47) CARBON TETRACHLORIDE	8.82	117	150040	6.20	PPBV	99
48) 1,2-DICHLOROETHANE	8.03	62	87512	6.34	PPBV	99
50) BENZENE	8.68	78	211543	6.01	PPBV	100
51) CYCLOHEXANE	8.86	69	35446	5.98	PPBV	99
52) 2,3-DIMETHYLPENTANE	9.06	71	50639	5.74	PPBV	97
53) TRICHLOROETHYLENE	9.66	95	92593	5.97	PPBV	98
54) 1,2-DICHLOROPROPANE	9.41	63	80346	5.90	PPBV	100
55) DIBROMOMETHANE	9.43	174	83325	5.97	PPBV	100
56) ETHYL ACRYLATE	9.43	55	111896	5.75	PPBV	100
57) BROMODICHLOROMETHANE	9.64	83	147188	5.96	PPBV	99
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	367056	6.07	PPBV	100
59) 1,4-DIOXANE	9.71	88	36145	6.04	PPBV	97
60) HEPTANE	9.85	43	145808	5.93	PPBV	100
61) TVHC as EQUIV HEPTANE	9.85	TIC	837253m	6.00	PPBV	
62) METHYL METHACRYLATE	9.87	69	53436	5.43	PPBV	97
63) METHYL ISOBUTYL KETONE	10.50	58	48523	6.06	PPBV	99
64) cis-1,3-DICHLOROPROPENE	10.52	75	110472	6.09	PPBV	99
65) TOLUENE	11.47	92	137025	5.89	PPBV	99
66) trans-1,3-DICHLOROPROPENE	11.04	75	102344	5.92	PPBV	99
67) 1,1,2-TRICHLOROETHANE	11.20	83	70539	5.93	PPBV	98
69) 2-HEXANONE	11.73	58	62142	5.77	PPBV	97
70) ETHYL METHACRYLATE	11.76	69	84849	6.09	PPBV	99
71) TETRACHLOROETHYLENE	12.63	164	96083	5.96	PPBV	99
72) DIBROMOCHLOROMETHANE	11.92	129	141071	6.08	PPBV	99
73) 1,2-DIBROMOETHANE	12.13	107	115765	5.93	PPBV	99
74) OCTANE	12.42	43	185952	6.25	PPBV	99
75) 1,1,1,2-TETRACHLOROETHANE	13.34	131	93147	5.98	PPBV	100
76) CHLOROBENZENE	13.36	112	169749	5.98	PPBV	99
77) ETHYLBENZENE	13.74	91	258116	5.61	PPBV	100
78) m,p-XYLENE	13.93	106	189456	11.07	PPBV	100
79) o-XYLENE	14.45	106	91309	5.42	PPBV	99
80) STYRENE	14.35	104	135484	5.71	PPBV	99
81) NONANE	14.64	43	169311	6.28	PPBV	99
82) BROMOFORM	14.04	173	123178	6.00	PPBV	99
84) 1,1,2,2-TETRACHLOROETHANE	14.47	83	122560	5.63	PPBV	100
85) 1,2,3-TRICHLOROPROPANE	14.60	75	92633	5.37	PPBV	100
86) ISOPROPYLBENZENE	15.10	105	251791	5.30	PPBV	100
87) BROMOBENZENE	15.23	77	122293	5.96	PPBV	100
88) 2-CHLOROTOLUENE	15.67	126	64563	5.60	PPBV	98
89) n-PROPYLBENZENE	15.70	120	62744	5.55	PPBV	100
90) 4-ETHYLTOLUENE	15.88	105	215664	5.58	PPBV	100
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	171452	5.69	PPBV	100
92) ALPHA-METHYLSTYRENE	16.19	118	71932	5.82	PPBV	100
93) tert-BUTYLBENZENE	16.46	134	39524	5.46	PPBV	99
94) 1,2,4-TRIMETHYLBENZENE	16.47	105	163089	6.04	PPBV	99
95) m-DICHLOROBENZENE	16.66	146	116430	5.82	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W22416.D M3W886.M

Mon May 16 12:43:28 2011

MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22416.D Vial: 2
Acq On : 13 May 2011 10:33 am Operator: yunxiac
Sample : ic886-5 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 13:58:52 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri May 13 13:58:46 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) BENZYL CHLORIDE	16.67	91	121256	5.30	PPBV	99
97) p-DICHLOROBENZENE	16.75	146	110885	5.62	PPBV	99
98) sec-BUTYLBENZENE	16.80	134	48024	5.61	PPBV	99
99) p-ISOPROPYLTOLUENE	16.98	134	49920	5.95	PPBV	97
100) o-DICHLOROBENZENE	17.18	146	101492	5.66	PPBV	99
101) n-BUTYLBENZENE	17.50	134	40410	5.94	PPBV	100
102) HEXACHLOROETHANE	17.99	117	73926	5.92	PPBV	98
103) HEXACHLOROBUTADIENE	19.79	225	55565	5.42	PPBV	99
104) 1,2,4-TRICHLOROBENZENE	19.23	180	32329	5.71	PPBV	99
106) NAPHTHALENE	19.37	128	43673	6.17	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W22416.D M3W886.M Mon May 16 12:43:28 2011 MS3W

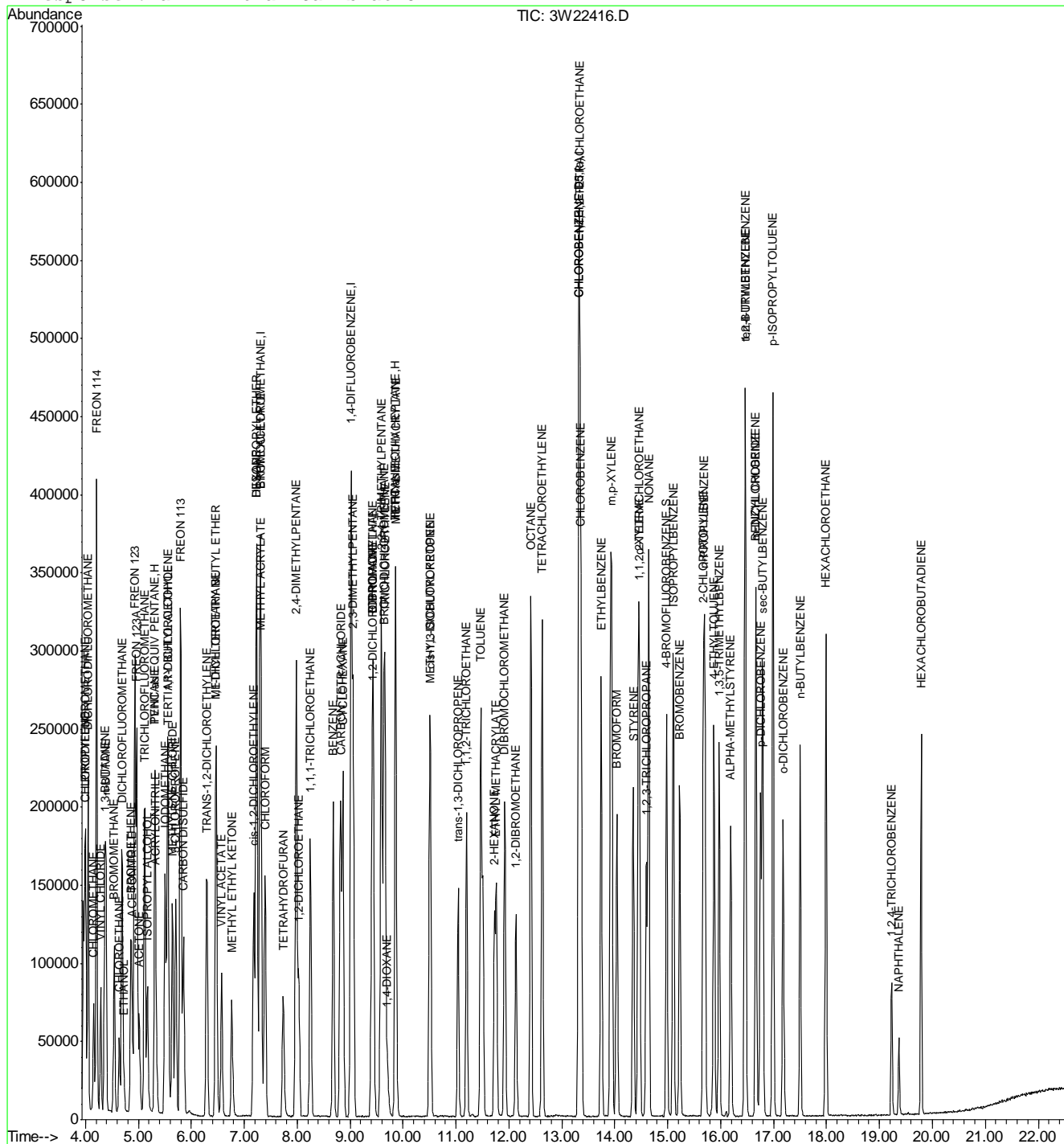
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22416.D
Acq On : 13 May 2011 10:33 am
Sample : ic886-5
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:09 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 11:05:58 2011
Response via : Initial Calibration



6.7.1

9

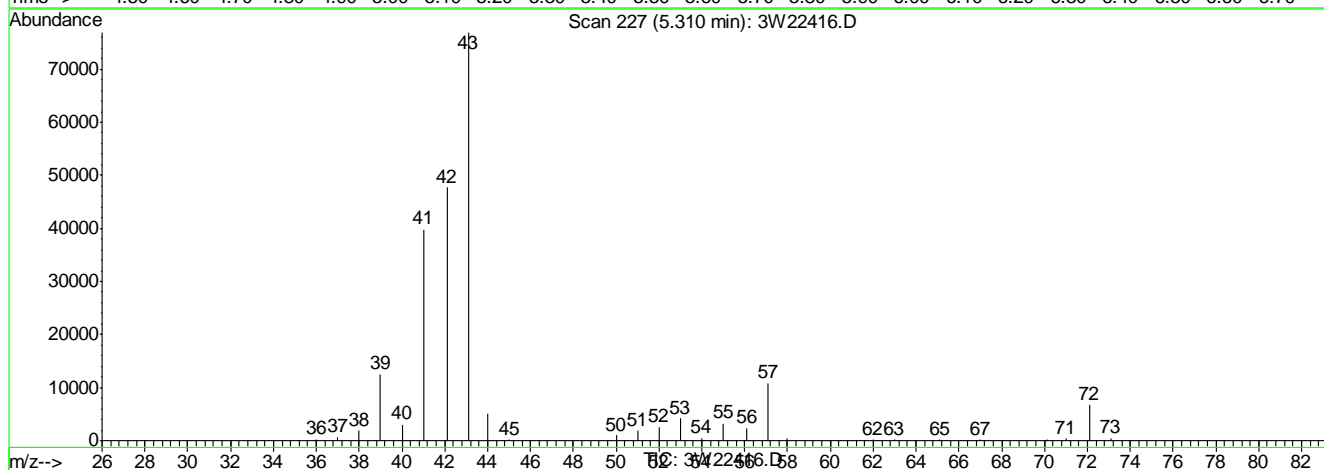
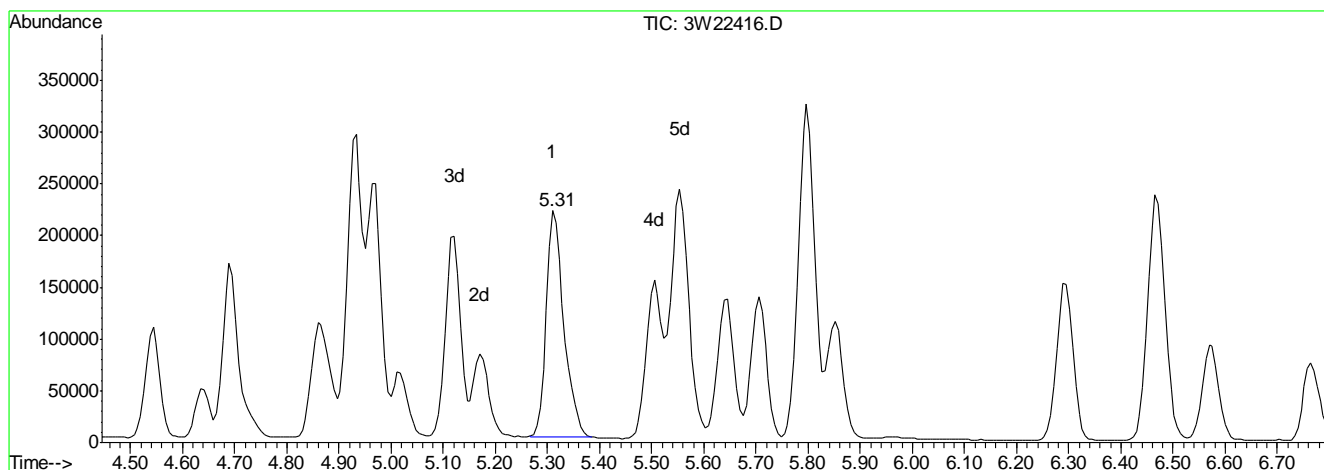
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22416.D
Acq On : 13 May 2011 10:33 am
Sample : ic886-5
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:09 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 10:55:05 2011
Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.31min 5.87PPBV m

response 516096

Signal	Exp%	Act%
TIC	100	100
0.00	1.20	0.00
0.00	1.00	0.00
0.00	0.00	0.00

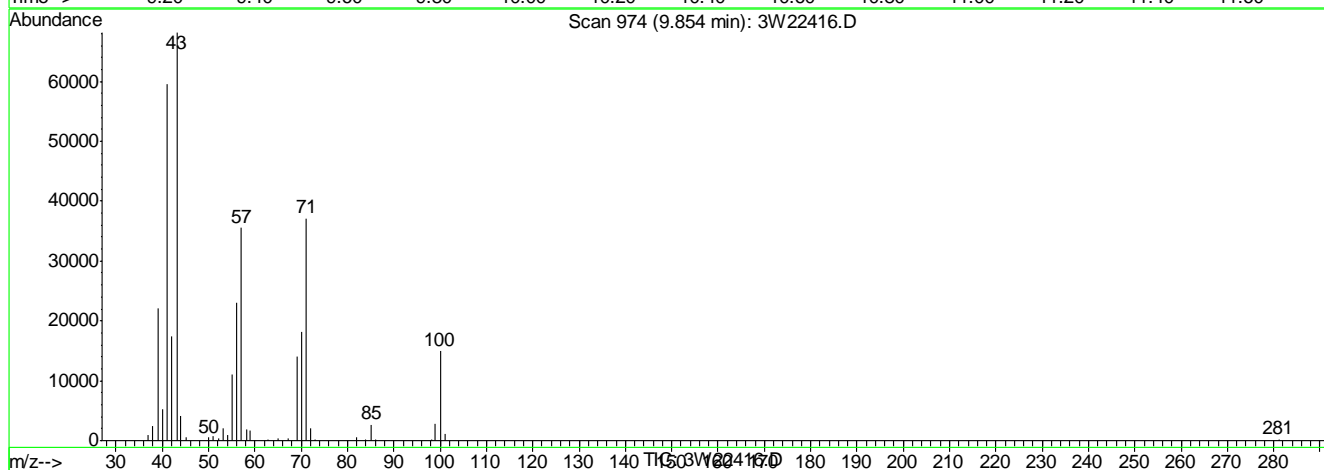
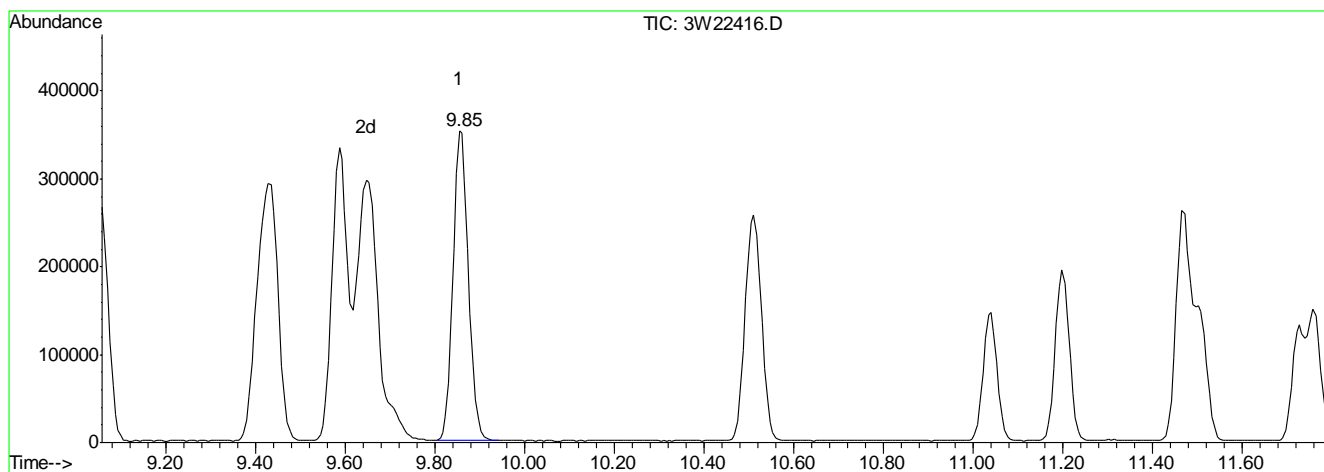
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22416.D
Acq On : 13 May 2011 10:33 am
Sample : ic886-5
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:09 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 10:55:05 2011
Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.85min 6.00PPBV m

response 837253

Signal	Exp%	Act%
TIC	100	100
0.00	0.80	0.00
0.00	0.70	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22418.D
 Acq On : 13 May 2011 12:34 pm
 Sample : ic886-20
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 13:58:07 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 13:58:00 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.31	128	93381	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.02	114	408962	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	205066	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	205066	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.98	95	117985	4.95	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	99.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	3.98	67	64129	19.68	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.05	85	599982	19.35	PPBV	99
6) PROPYLENE	4.00	41	233496	19.33	PPBV	99
7) FREON 114	4.21	85	676967	19.18	PPBV	99
8) CHLOROMETHANE	4.15	50	256471	19.90	PPBV	100
9) VINYL CHLORIDE	4.29	62	279520	19.38	PPBV	100
10) 1,3-BUTADIENE	4.37	54	212043	19.28	PPBV	100
11) n-BUTANE	4.39	43	428987	19.20	PPBV	99
12) BROMOMETHANE	4.54	94	248671	19.39	PPBV	99
13) CHLOROETHANE	4.64	64	147346	19.54	PPBV	100
14) DICHLOROFLUOROMETHANE	4.69	67	560241	19.32	PPBV	100
15) ACETONITRILE	4.88	41	229807	21.90	PPBV	97
16) FREON 123	4.93	83	572873	19.30	PPBV	99
17) FREON 123A	4.97	117	315872	19.59	PPBV	99
18) TRICHLOROFLUOROMETHANE	5.12	101	584784	19.46	PPBV	100
19) ISOPROPYL ALCOHOL	5.17	45	406696	20.12	PPBV	100
20) ACETONE	5.01	58	106072	22.83	PPBV	97
21) PENTANE	5.31	42	299364	19.08	PPBV	99
22) TVHC as EQUIV PENTANE	5.32	TIC	1811859m	19.84	PPBV	
23) IODOMETHANE	5.50	142	651642	19.47	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.55	96	239922	19.88	PPBV	98
25) CARBON DISULFIDE	5.85	76	625843	19.61	PPBV	100
26) ETHANOL	4.73	45	106659	20.64	PPBV	98
27) BROMOETHENE	4.86	106	246291	19.23	PPBV	98
28) ACRYLONITRILE	5.34	52	163974	21.57	PPBV	99
29) METHYLENE CHLORIDE	5.64	84	223684	19.43	PPBV	100
30) 3-CHLOROPROPENE	5.71	76	117260	19.99	PPBV	99
31) FREON 113	5.80	151	393886	19.60	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	235938	19.93	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.56	59	455799	19.69	PPBV	99
34) METHYL TERTIARY BUTYL ETHER	6.47	73	560149	23.90	PPBV	100
35) TETRAHYDROFURAN	7.73	72	104684	24.23	PPBV	98
36) HEXANE	7.23	57	392078	19.87	PPBV	98
37) VINYL ACETATE	6.58	86	52436	22.96	PPBV	100
38) 1,1-DICHLOROETHANE	6.47	63	459294	19.95	PPBV	99
39) METHYL ETHYL KETONE	6.76	72	96768	22.83	PPBV	93
40) cis-1,2-DICHLOROETHYLENE	7.18	96	255653	20.13	PPBV	99
41) DIISOPROPYL ETHER	7.24	45	719394	23.40	PPBV	99
42) ETHYL ACETATE	7.31	61	66383	23.54	PPBV #	94
43) METHYL ACRYLATE	7.32	55	403610	24.38	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W22418.D M3W886.M

Mon May 16 12:42:25 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22418.D
 Acq On : 13 May 2011 12:34 pm
 Sample : ic886-20
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 13:58:07 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 13:58:00 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CHLOROFORM	7.40	83	489369	20.07	PPBV	100
45) 2,4-DIMETHYLPENTANE	7.98	57	490383	19.95	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.25	97	466201	20.23	PPBV	100
47) CARBON TETRACHLORIDE	8.82	117	501776	19.98	PPBV	99
48) 1,2-DICHLOROETHANE	8.03	62	305449	20.80	PPBV	99
50) BENZENE	8.69	78	742632	20.28	PPBV	100
51) CYCLOHEXANE	8.86	69	118802	19.76	PPBV	99
52) 2,3-DIMETHYLPENTANE	9.06	71	173302	19.96	PPBV	97
53) TRICHLOROETHYLENE	9.66	95	316674	20.31	PPBV	99
54) 1,2-DICHLOROPROPANE	9.41	63	291867	20.78	PPBV	99
55) DIBROMOMETHANE	9.44	174	292230	20.50	PPBV	99
56) ETHYL ACRYLATE	9.43	55	441948	22.44	PPBV	100
57) BROMODICHLOROMETHANE	9.64	83	508237	20.20	PPBV	99
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	1238603	19.99	PPBV	100
59) 1,4-DIOXANE	9.70	88	130516	21.15	PPBV	99
60) HEPTANE	9.85	43	497266	19.91	PPBV	99
61) TVHC as EQUIV HEPTANE	9.86	TIC	3035818m	21.09	PPBV	
62) METHYL METHACRYLATE	9.87	69	222256	23.50	PPBV #	88
63) METHYL ISOBUTYL KETONE	10.49	58	179418	21.01	PPBV	100
64) cis-1,3-DICHLOROPROPENE	10.52	75	404785	20.87	PPBV	99
65) TOLUENE	11.47	92	499674	20.83	PPBV	99
66) trans-1,3-DICHLOROPROPENE	11.04	75	400505	21.45	PPBV	99
67) 1,1,2-TRICHLOROETHANE	11.20	83	254111	20.77	PPBV	100
69) 2-HEXANONE	11.72	58	246056	20.22	PPBV	99
70) ETHYL METHACRYLATE	11.76	69	320256	20.71	PPBV	100
71) TETRACHLOROETHYLENE	12.63	164	334309	19.32	PPBV	100
72) DIBROMOCHLOROMETHANE	11.92	129	515057	20.11	PPBV	100
73) 1,2-DIBROMOETHANE	12.14	107	439207	20.38	PPBV	100
74) OCTANE	12.42	43	638790	19.39	PPBV	100
75) 1,1,1,2-TETRACHLOROETHANE	13.34	131	347141	20.43	PPBV	100
76) CHLOROBENZENE	13.37	112	621192	20.08	PPBV	100
77) ETHYLBENZENE	13.74	91	1011645	20.44	PPBV	99
78) m,p-XYLENE	13.94	106	768407	42.28	PPBV	95
79) o-XYLENE	14.45	106	376898	21.42	PPBV	97
80) STYRENE	14.35	104	581003	21.59	PPBV	100
81) NONANE	14.64	43	624247	20.26	PPBV	99
82) BROMOFORM	14.04	173	479467	21.13	PPBV	99
84) 1,1,2,2-TETRACHLOROETHANE	14.47	83	510262	21.92	PPBV	99
85) 1,2,3-TRICHLOROPROPANE	14.60	75	411674	22.97	PPBV	100
86) ISOPROPYLBENZENE	15.10	105	1061698	21.87	PPBV	100
87) BROMOBENZENE	15.23	77	478605	20.86	PPBV	99
88) 2-CHLOROTOLUENE	15.68	126	263224	20.79	PPBV	99
89) n-PROPYLBENZENE	15.70	120	274808	22.48	PPBV	100
90) 4-ETHYLTOLUENE	15.88	105	963511	23.02	PPBV	99
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	765915	23.32	PPBV	99
92) ALPHA-METHYLSTYRENE	16.19	118	350520	24.24	PPBV	99
93) tert-BUTYLBENZENE	16.46	134	179330	23.88	PPBV	95
94) 1,2,4-TRIMETHYLBENZENE	16.47	105	711020	23.29	PPBV	99
95) m-DICHLOROBENZENE	16.67	146	489467	21.84	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W22418.D M3W886.M

Mon May 16 12:42:25 2011

MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22418.D Vial: 2
Acq On : 13 May 2011 12:34 pm Operator: yunxiac
Sample : ic886-20 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 13:58:07 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri May 13 13:58:00 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) BENZYL CHLORIDE	16.67	91	579985	24.29	PPBV	100
97) p-DICHLOROBENZENE	16.75	146	484051	22.14	PPBV	99
98) sec-BUTYLBENZENE	16.80	134	215724	23.77	PPBV	95
99) p-ISOPROPYLTOLUENE	16.99	134	218982	24.23	PPBV	96
100) o-DICHLOROBENZENE	17.19	146	442803	22.44	PPBV	99
101) n-BUTYLBENZENE	17.50	134	185907	24.34	PPBV	96
102) HEXACHLOROETHANE	17.99	117	299730	21.53	PPBV	100
103) HEXACHLOROBUTADIENE	19.79	225	249024	22.74	PPBV	99
104) 1,2,4-TRICHLOROBENZENE	19.23	180	163242	24.22	PPBV	99
106) NAPHTHALENE	19.37	128	215691	24.53	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W22418.D M3W886.M Mon May 16 12:42:25 2011 MS3W

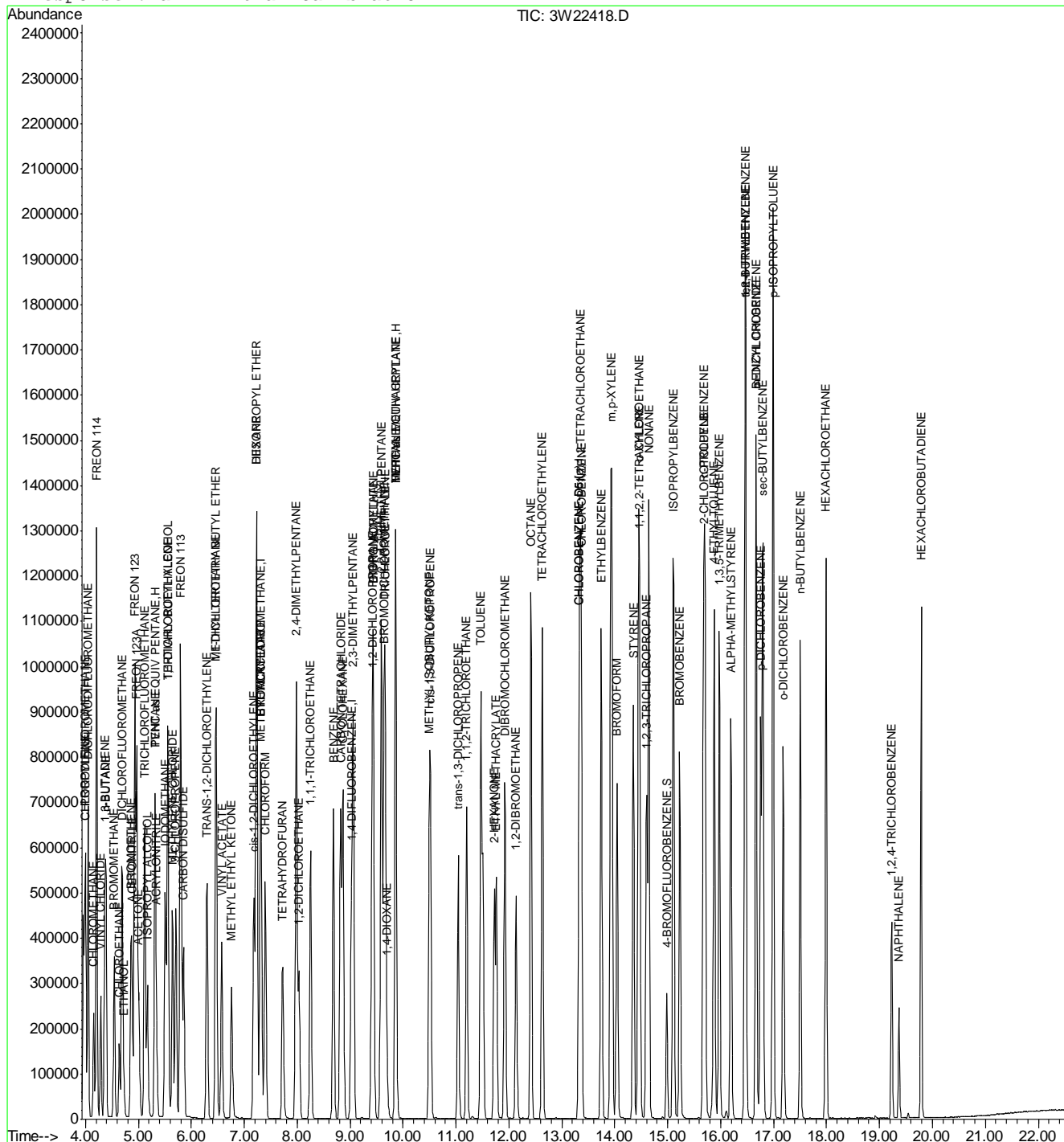
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22418.D
Acq On : 13 May 2011 12:34 pm
Sample : ic886-20
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:11 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 11:05:58 2011
Response via : Initial Calibration



3W22418.D M3W886.M

Mon May 16 12:42:26 2011

MS 3W

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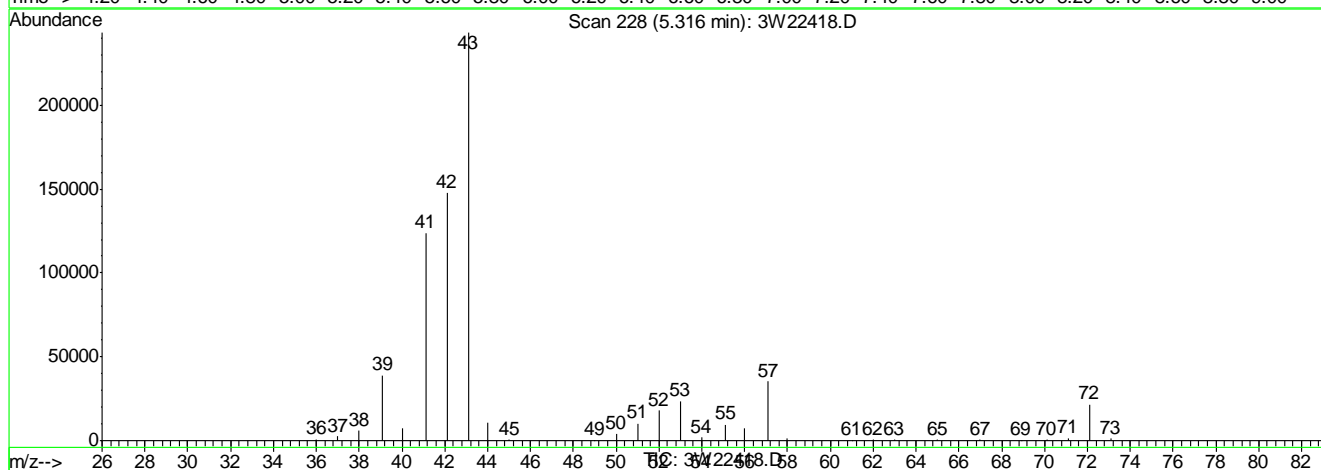
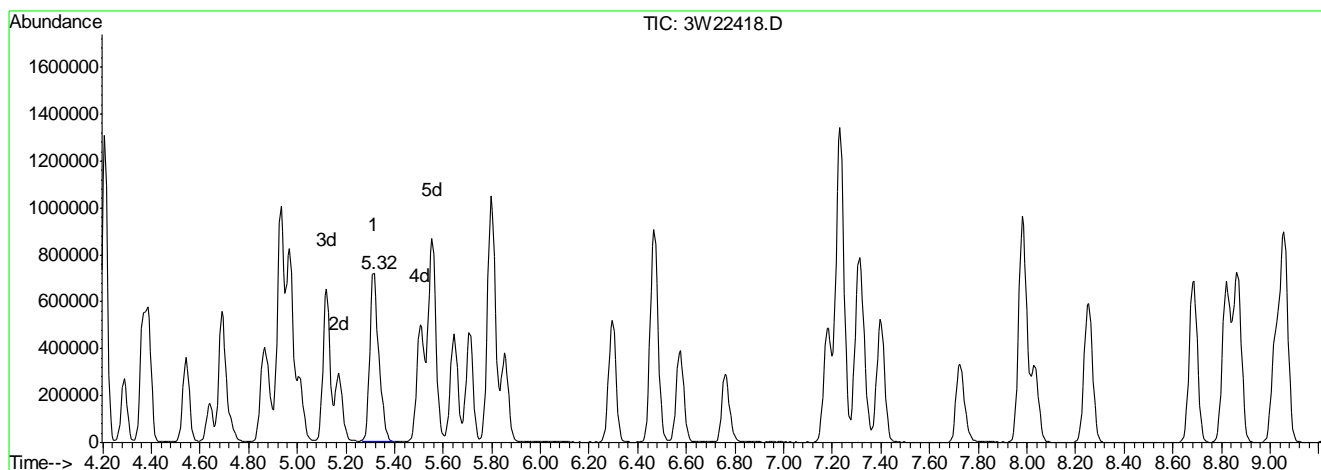
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22418.D
 Acq On : 13 May 2011 12:34 pm
 Sample : ic886-20
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:11 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:55:05 2011
 Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.32min 19.84PPBV m

response 1811859

Signal Exp% Act%

TIC 100 100

0.00 1.20 0.00

0.00 1.00 0.00

0.00 0.00 0.00

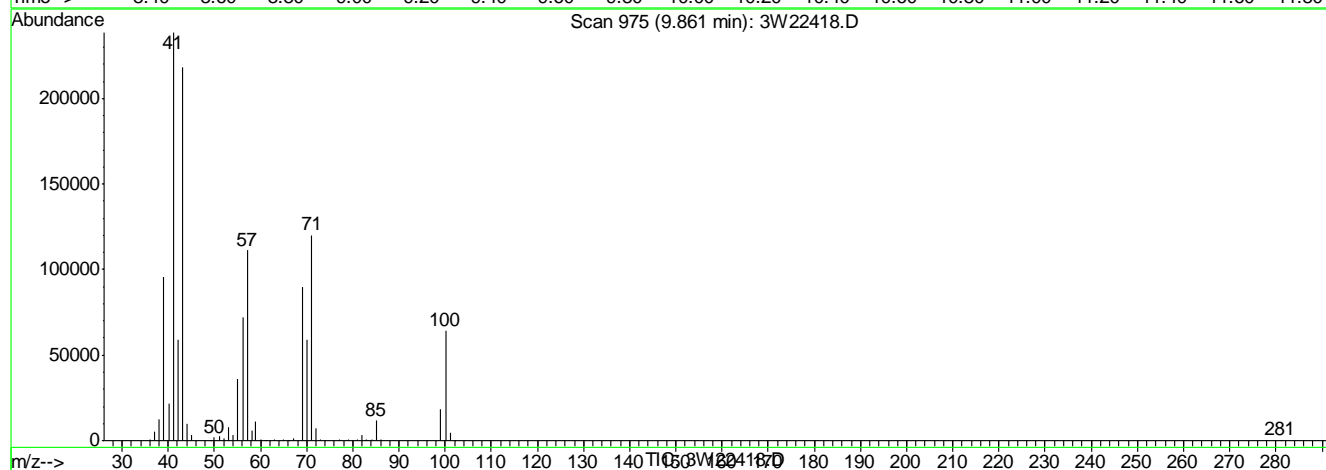
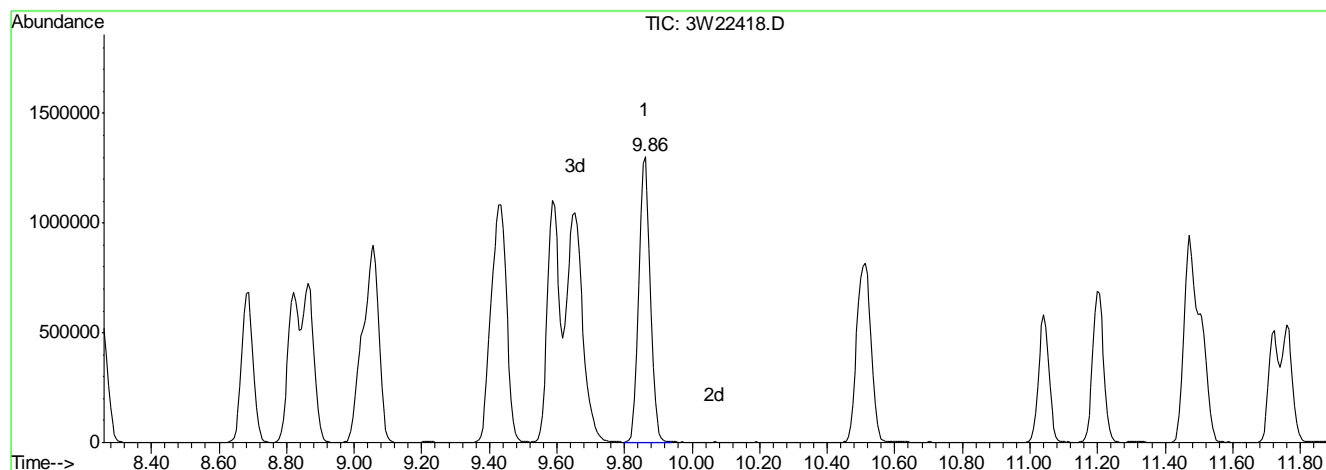
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22418.D
 Acq On : 13 May 2011 12:34 pm
 Sample : ic886-20
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:11 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:55:05 2011
 Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.86min 21.09PPBV m

response 3035818

Signal	Exp%	Act%
TIC	100	100
0.00	0.80	0.00
0.00	0.70	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22419.D
 Acq On : 13 May 2011 1:14 pm
 Sample : icc886-10
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 13:57:19 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 13:57:16 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.31	128	97311	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.02	114	423918	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	204181	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	204181	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.98	95	118622	5.00	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	100.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	3.99	67	33964	10.00	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.05	85	323187	10.00	PPBV	100
6) PROPYLENE	4.00	41	125875	10.00	PPBV	100
7) FREON 114	4.21	85	367810	10.00	PPBV	100
8) CHLOROMETHANE	4.16	50	134307	10.00	PPBV	100
9) VINYL CHLORIDE	4.29	62	150291	10.00	PPBV	100
10) 1,3-BUTADIENE	4.37	54	114613	10.00	PPBV	100
11) n-BUTANE	4.39	43	232882	10.00	PPBV	100
12) BROMOMETHANE	4.55	94	133644	10.00	PPBV	100
13) CHLOROETHANE	4.64	64	78587	10.00	PPBV	100
14) DICHLOROFLUOROMETHANE	4.70	67	302154	10.00	PPBV	100
15) ACETONITRILE	4.89	41	109368	10.00	PPBV	100
16) FREON 123	4.93	83	309396	10.00	PPBV	100
17) FREON 123A	4.98	117	167991	10.00	PPBV	100
18) TRICHLOROFLUOROMETHANE	5.12	101	313147	10.00	PPBV	100
19) ISOPROPYL ALCOHOL	5.19	45	210693	10.00	PPBV	100
20) ACETONE	5.02	58	48413	10.00	PPBV	100
21) PENTANE	5.32	42	163479	10.00	PPBV	100
22) TVHC as EQUIV PENTANE	5.32	TIC	951798m	10.00	PPBV	
23) IODOMETHANE	5.51	142	348722	10.00	PPBV	100
24) 1,1-DICHLOROETHYLENE	5.55	96	125790	10.00	PPBV	100
25) CARBON DISULFIDE	5.86	76	332584	10.00	PPBV	100
26) ETHANOL	4.74	45	53847	10.00	PPBV	100
27) BROMOETHENE	4.87	106	133438	10.00	PPBV	100
28) ACRYLONITRILE	5.35	52	79222	10.00	PPBV	100
29) METHYLENE CHLORIDE	5.65	84	119997	10.00	PPBV	100
30) 3-CHLOROPROPENE	5.71	76	61125	10.00	PPBV	100
31) FREON 113	5.80	151	209444	10.00	PPBV	100
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	123393	10.00	PPBV	100
33) TERTIARY BUTYL ALCOHOL	5.58	59	241263	10.00	PPBV	100
34) METHYL TERTIARY BUTYL ETHER	6.48	73	244234	10.00	PPBV	100
35) TETRAHYDROFURAN	7.74	72	45023	10.00	PPBV	100
36) HEXANE	7.23	57	205604	10.00	PPBV	100
37) VINYL ACETATE	6.58	86	23804	10.00	PPBV	100
38) 1,1-DICHLOROETHANE	6.47	63	239962	10.00	PPBV	100
39) METHYL ETHYL KETONE	6.77	72	44175	10.00	PPBV	100
40) cis-1,2-DICHLOROETHYLENE	7.18	96	132337	10.00	PPBV	100
41) DIISOPROPYL ETHER	7.24	45	320362	10.00	PPBV	100
42) ETHYL ACETATE	7.32	61	29392	10.00	PPBV	100
43) METHYL ACRYLATE	7.34	55	172520	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W22419.D M3W886.M

Mon May 16 12:42:27 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22419.D
 Acq On : 13 May 2011 1:14 pm
 Sample : icc886-10
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 13:57:19 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 13:57:16 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CHLOROFORM	7.40	83	254141	10.00	PPBV	100
45) 2,4-DIMETHYLPENTANE	7.99	57	256144	10.00	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.25	97	240191	10.00	PPBV	100
47) CARBON TETRACHLORIDE	8.83	117	261755	10.00	PPBV	100
48) 1,2-DICHLOROETHANE	8.04	62	153027	10.00	PPBV	100
50) BENZENE	8.69	78	379508	10.00	PPBV	100
51) CYCLOHEXANE	8.87	69	62335	10.00	PPBV	100
52) 2,3-DIMETHYLPENTANE	9.06	71	90004	10.00	PPBV	100
53) TRICHLOROETHYLENE	9.66	95	161612	10.00	PPBV	100
54) 1,2-DICHLOROPROPANE	9.42	63	145568	10.00	PPBV	100
55) DIBROMOMETHANE	9.44	174	147796	10.00	PPBV	100
56) ETHYL ACRYLATE	9.45	55	204107	10.00	PPBV	100
57) BROMODICHLOROMETHANE	9.64	83	260791	10.00	PPBV	100
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	642232	10.00	PPBV	100
59) 1,4-DIOXANE	9.71	88	63960	10.00	PPBV	100
60) HEPTANE	9.86	43	258883	10.00	PPBV	100
61) TVHC as EQUIV HEPTANE	9.86	TIC	1492084m	9.98	PPBV	
62) METHYL METHACRYLATE	9.87	69	98049	10.00	PPBV	100
63) METHYL ISOBUTYL KETONE	10.51	58	88518	10.00	PPBV	100
64) cis-1,3-DICHLOROPROPENE	10.52	75	201068	10.00	PPBV	100
65) TOLUENE	11.47	92	248638	10.00	PPBV	100
66) trans-1,3-DICHLOROPROPENE	11.04	75	193525	10.00	PPBV	100
67) 1,1,2-TRICHLOROETHANE	11.20	83	126842	10.00	PPBV	100
69) 2-HEXANONE	11.73	58	121188	10.00	PPBV	100
70) ETHYL METHACRYLATE	11.76	69	154003	10.00	PPBV	100
71) TETRACHLOROETHYLENE	12.63	164	172313	10.00	PPBV	100
72) DIBROMOCHLOROMETHANE	11.92	129	255058	10.00	PPBV	100
73) 1,2-DIBROMOETHANE	12.14	107	214534	10.00	PPBV	100
74) OCTANE	12.42	43	327943	10.00	PPBV	100
75) 1,1,1,2-TETRACHLOROETHANE	13.35	131	169213	10.00	PPBV	100
76) CHLOROBENZENE	13.37	112	307964	10.00	PPBV	100
77) ETHYLBENZENE	13.75	91	492839	10.00	PPBV	100
78) m,p-XYLENE	13.93	106	361879	20.00	PPBV	100
79) o-XYLENE	14.45	106	175198	10.00	PPBV	100
80) STYRENE	14.35	104	267910	10.00	PPBV	100
81) NONANE	14.64	43	306857	10.00	PPBV	100
82) BROMOFORM	14.04	173	225908	10.00	PPBV	100
84) 1,1,2,2-TETRACHLOROETHANE	14.47	83	231769	10.00	PPBV	100
85) 1,2,3-TRICHLOROPROPANE	14.60	75	178486	10.00	PPBV	100
86) ISOPROPYLBENZENE	15.10	105	483346	10.00	PPBV	100
87) BROMOBENZENE	15.23	77	228437	10.00	PPBV	100
88) 2-CHLOROTOLUENE	15.68	126	126065	10.00	PPBV	100
89) n-PROPYLBENZENE	15.70	120	121691	10.00	PPBV	100
90) 4-ETHYLTOLUENE	15.88	105	416751	10.00	PPBV	100
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	327084	10.00	PPBV	100
92) ALPHA-METHYLSTYRENE	16.19	118	143991	10.00	PPBV	100
93) tert-BUTYLBENZENE	16.46	134	74762	10.00	PPBV	100
94) 1,2,4-TRIMETHYLBENZENE	16.47	105	304023	10.00	PPBV	100
95) m-DICHLOROBENZENE	16.67	146	223102	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W22419.D M3W886.M

Mon May 16 12:42:27 2011

MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22419.D Vial: 2
Acq On : 13 May 2011 1:14 pm Operator: yunxiac
Sample : icc886-10 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 13:57:19 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri May 13 13:57:16 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) BENZYL CHLORIDE	16.67	91	237739	10.00	PPBV	100
97) p-DICHLOROBENZENE	16.75	146	217705	10.00	PPBV	100
98) sec-BUTYLBENZENE	16.80	134	90346	10.00	PPBV	100
99) p-ISOPROPYLTOLUENE	16.99	134	89995	10.00	PPBV	100
100) o-DICHLOROBENZENE	17.18	146	196436	10.00	PPBV	100
101) n-BUTYLBENZENE	17.50	134	76043	10.00	PPBV	100
102) HEXACHLOROETHANE	17.99	117	138642	10.00	PPBV	100
103) HEXACHLOROBUTADIENE	19.79	225	109035	10.00	PPBV	100
104) 1,2,4-TRICHLOROBENZENE	19.23	180	67096	10.00	PPBV	100
106) NAPHTHALENE	19.37	128	87533	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W22419.D M3W886.M Mon May 16 12:42:27 2011 MS3W

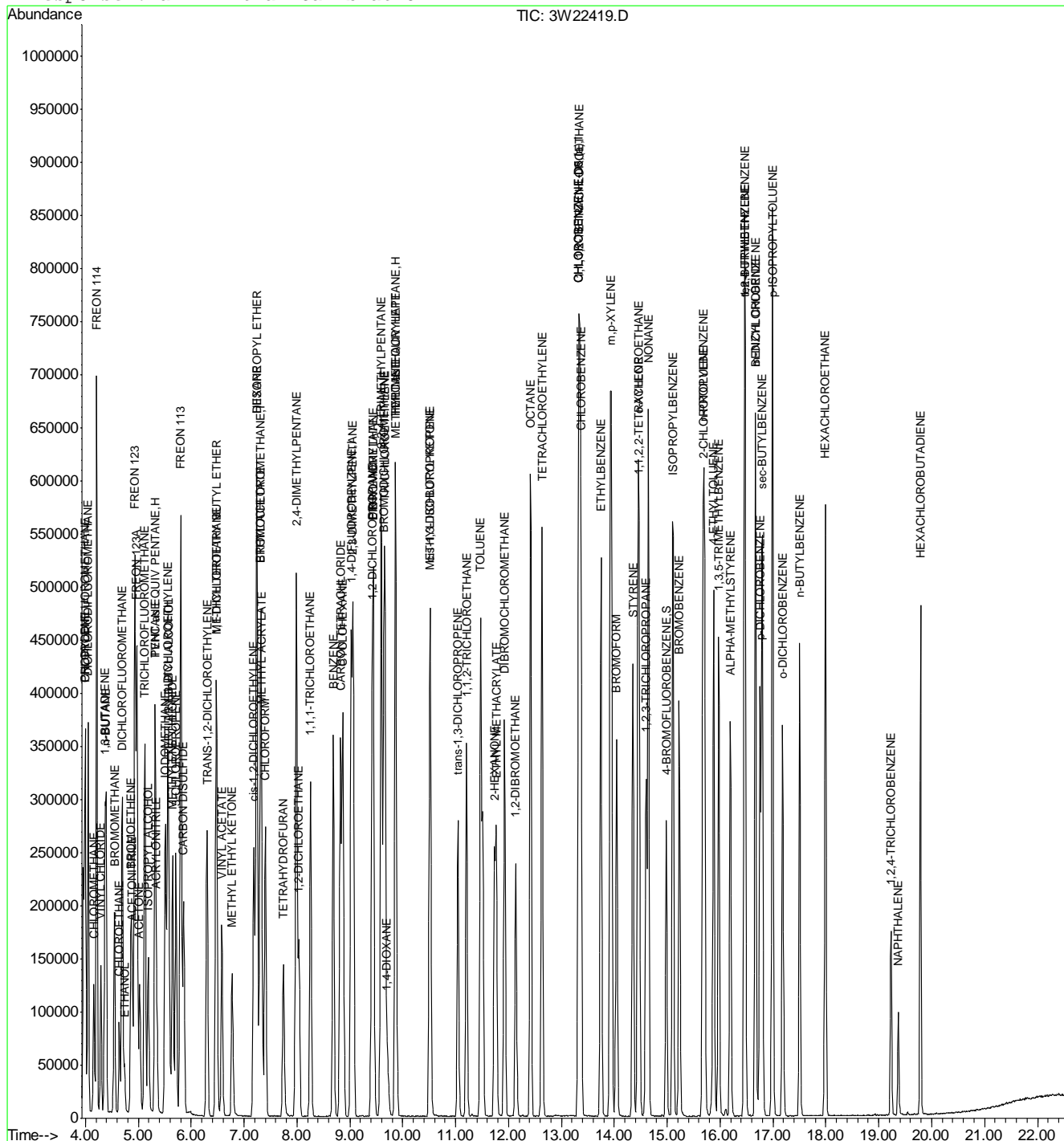
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22419.D
Acq On : 13 May 2011 1:14 pm
Sample : icc886-10
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:59 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 11:05:58 2011
Response via : Initial Calibration



3W22419.D M3W886.M

Mon May 16 12:42:28 2011

MS 3W

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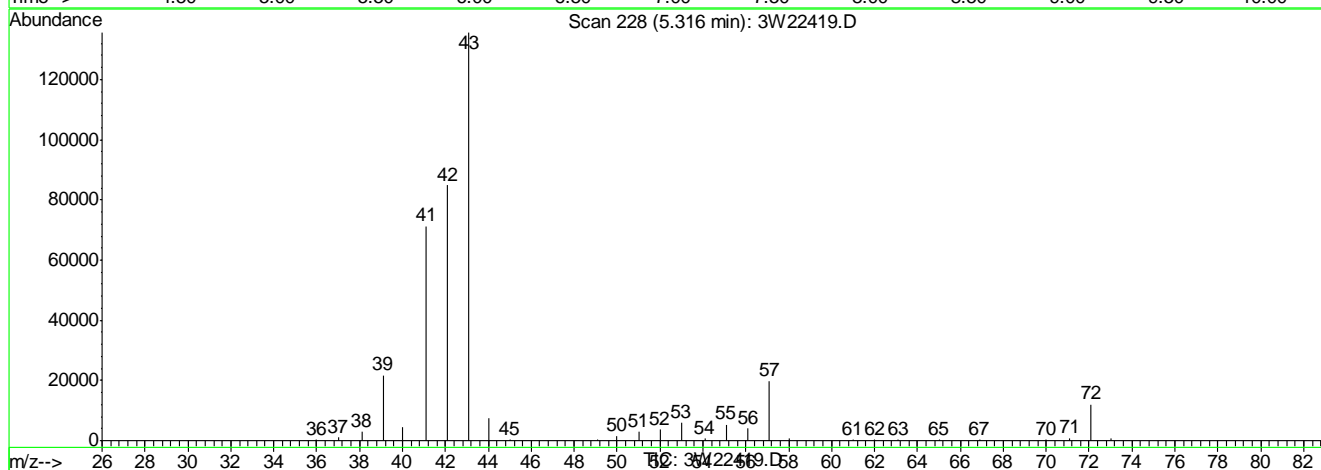
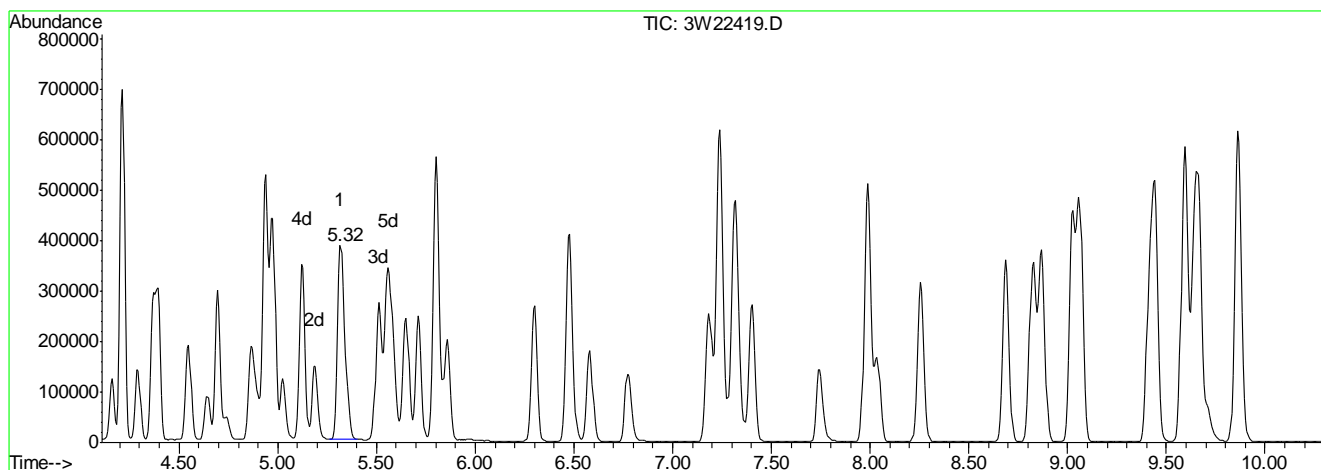
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22419.D
Acq On : 13 May 2011 1:14 pm
Sample : icc886-10
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 9:24 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 10:55:05 2011
Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.32min 10.00PPBV m

response 951798

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	1.20	1.18#
------	------	-------

0.00	1.00	1.02#
------	------	-------

0.00	0.00	0.00
------	------	------

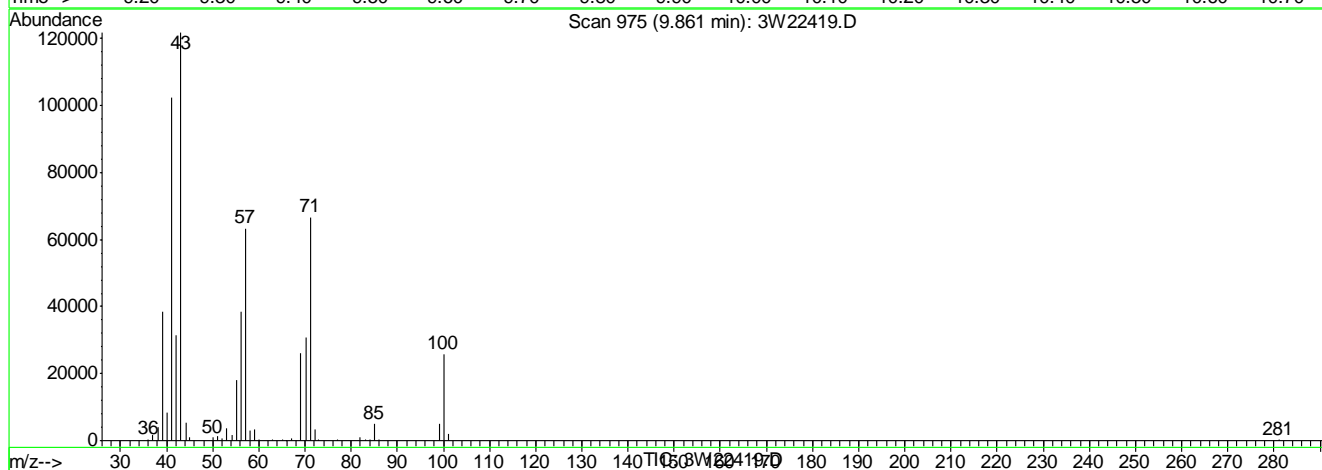
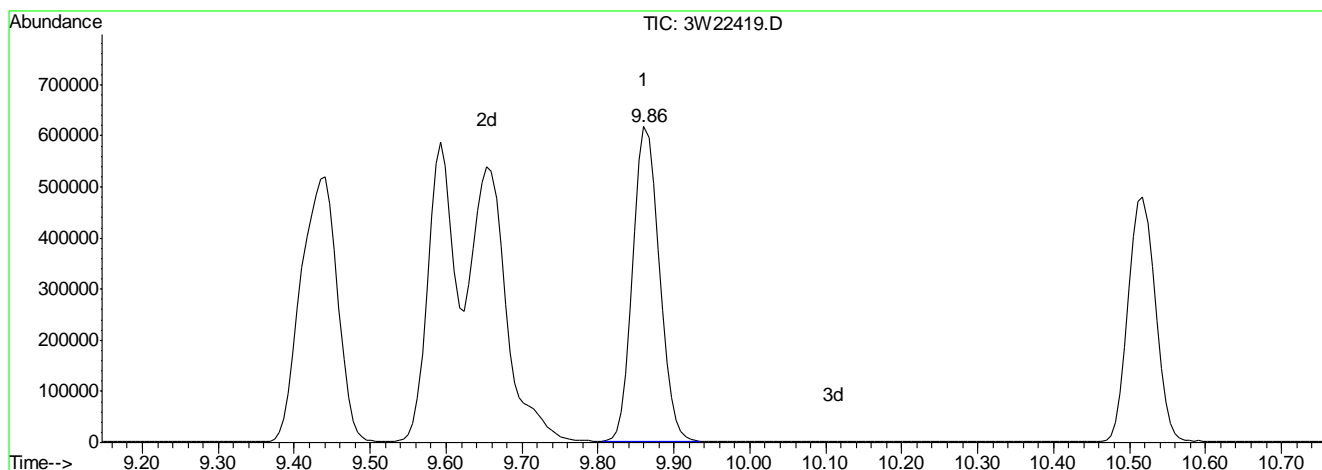
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22419.D
 Acq On : 13 May 2011 1:14 pm
 Sample : icc886-10
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:59 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:55:05 2011
 Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.86min 9.98PPBV m

response 1492084

Signal	Exp%	Act%
TIC	100	100
0.00	0.80	0.75#
0.00	0.70	0.65#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22420.D
 Acq On : 13 May 2011 1:57 pm
 Sample : ic886-1
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 14:46:02 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 14:00:46 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	92995	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	9.01	114	381632	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	163050	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	163050	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.98	95	89754	4.85	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	97.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	3.98	67	4185	0.97	PPBV	93
5) DICHLORODIFLUOROMETHANE	4.05	85	37013	0.97	PPBV	99
6) PROPYLENE	4.00	41	15579	0.95	PPBV	97
7) FREON 114	4.21	85	42176	1.00	PPBV	99
8) CHLOROMETHANE	4.15	50	15879	0.99	PPBV	100
9) VINYL CHLORIDE	4.29	62	16815	1.00	PPBV	99
10) 1,3-BUTADIENE	4.36	54	12260	0.96	PPBV	91
11) n-BUTANE	4.39	43	27658	1.00	PPBV	95
12) BROMOMETHANE	4.54	94	14234	0.93	PPBV	96
13) CHLOROETHANE	4.63	64	8271	0.97	PPBV	100
14) DICHLOROFLUOROMETHANE	4.69	67	33250	0.98	PPBV	99
15) ACETONITRILE	4.88	41	12134	0.87	PPBV #	32
16) FREON 123	4.93	83	30496	0.90	PPBV	99
17) FREON 123A	4.97	117	16386	0.89	PPBV	96
18) TRICHLOROFLUOROMETHANE	5.12	101	35450	0.99	PPBV	98
19) ISOPROPYL ALCOHOL	5.19	45	26162	0.99	PPBV	94
20) ACETONE	5.02	58	5938	0.93	PPBV	93
21) PENTANE	5.31	42	18227	0.97	PPBV	97
22) TVHC as EQUIV PENTANE	5.31	TIC	96492m	1.06	PPBV	
23) IODOMETHANE	5.50	142	37108	0.95	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.55	96	14074	0.97	PPBV	95
25) CARBON DISULFIDE	5.85	76	37195	0.97	PPBV	91
26) ETHANOL	4.73	45	8619	0.95	PPBV	97
27) BROMOETHENE	4.86	106	14046	0.95	PPBV	99
28) ACRYLONITRILE	5.34	52	7116	0.86	PPBV	99
29) METHYLENE CHLORIDE	5.64	84	13546	0.93	PPBV	98
30) 3-CHLOROPROPENE	5.70	76	5880	0.90	PPBV #	92
31) FREON 113	5.80	151	22866	0.97	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.29	96	12889	0.94	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.58	59	25881	0.98	PPBV	91
34) METHYL TERTIARY BUTYL ETHER	6.48	73	28649	0.93	PPBV	98
35) TETRAHYDROFURAN	7.76	72	4798	0.92	PPBV #	89
36) HEXANE	7.22	57	22199	0.95	PPBV	95
37) VINYL ACETATE	6.58	86	1955	0.81	PPBV #	62
38) 1,1-DICHLOROETHANE	6.46	63	23150	0.89	PPBV	98
39) METHYL ETHYL KETONE	6.78	72	4837	0.93	PPBV #	82
40) cis-1,2-DICHLOROETHYLENE	7.17	96	12555	0.88	PPBV	99
41) DIISOPROPYL ETHER	7.24	45	37355	0.94	PPBV	99
42) ETHYL ACETATE	7.32	61	3293	0.96	PPBV #	91
43) METHYL ACRYLATE	7.32	55	17612	0.89	PPBV	96

(#) = qualifier out of range (m) = manual integration

3W22420.D M3W886.M

Mon May 16 12:42:29 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22420.D
 Acq On : 13 May 2011 1:57 pm
 Sample : ic886-1
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 14:46:02 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 14:00:46 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CHLOROFORM	7.38	83	24890	0.88	PPBV	100
45) 2,4-DIMETHYLPENTANE	7.97	57	25919	0.93	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.25	97	23300	0.88	PPBV	98
47) CARBON TETRACHLORIDE	8.81	117	26898	0.93	PPBV	98
48) 1,2-DICHLOROETHANE	8.02	62	13788	0.83	PPBV	99
50) BENZENE	8.68	78	33652	0.85	PPBV	99
51) CYCLOHEXANE	8.86	69	7012	1.05	PPBV	93
52) 2,3-DIMETHYLPENTANE	9.06	71	9255	0.94	PPBV #	71
53) TRICHLOROETHYLENE	9.65	95	15969	0.91	PPBV	98
54) 1,2-DICHLOROPROPANE	9.40	63	12682	0.86	PPBV	99
55) DIBROMOMETHANE	9.43	174	13415	0.87	PPBV	98
56) ETHYL ACRYLATE	9.44	55	19064	0.92	PPBV #	98
57) BROMODICHLOROMETHANE	9.63	83	23685	0.88	PPBV	98
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	60995	0.91	PPBV	97
59) 1,4-DIOXANE	9.73	88	5857	0.96	PPBV	83
60) HEPTANE	9.85	43	25176	0.91	PPBV	99
61) TVHC as EQUIV HEPTANE	9.85	TIC	148190m	1.10	PPBV	
62) METHYL METHACRYLATE	9.87	69	10477	0.99	PPBV	96
63) METHYL ISOBUTYL KETONE	10.52	58	7382	0.89	PPBV	94
64) cis-1,3-DICHLOROPROPENE	10.52	75	16878	0.86	PPBV	97
65) TOLUENE	11.47	92	20895	0.78	PPBV	96
66) trans-1,3-DICHLOROPROPENE	11.03	75	14427	0.79	PPBV	99
67) 1,1,2-TRICHLOROETHANE	11.20	83	11078	0.86	PPBV	98
69) 2-HEXANONE	11.75	58	9441	0.97	PPBV	98
70) ETHYL METHACRYLATE	11.77	69	11752	0.90	PPBV	97
71) TETRACHLOROETHYLENE	12.63	164	15946	0.96	PPBV	98
72) DIBROMOCHLOROMETHANE	11.92	129	20159	0.85	PPBV	98
73) 1,2-DIBROMOETHANE	12.13	107	17230	0.89	PPBV	99
74) OCTANE	12.42	43	28090	0.90	PPBV	98
75) 1,1,1,2-TETRACHLOROETHANE	13.34	131	14408	0.91	PPBV	96
76) CHLOROBENZENE	13.36	112	26652	0.91	PPBV	91
77) ETHYLBENZENE	13.74	91	42684	0.92	PPBV	99
78) m,p-XYLENE	13.93	106	31454	1.84	PPBV	95
79) o-XYLENE	14.45	106	15694	0.95	PPBV	98
80) STYRENE	14.34	104	19848	0.86	PPBV	99
81) NONANE	14.64	43	23233	0.84	PPBV	99
82) BROMOFORM	14.04	173	17562	0.88	PPBV	99
84) 1,1,2,2-TETRACHLOROETHANE	14.47	83	21239	0.99	PPBV	99
85) 1,2,3-TRICHLOROPROPANE	14.60	75	16579	0.98	PPBV	99
86) ISOPROPYLBENZENE	15.10	105	44963	0.96	PPBV	99
87) BROMOBENZENE	15.23	77	18066	0.90	PPBV	100
88) 2-CHLOROTOLUENE	15.67	126	10255	0.91	PPBV	100
89) n-PROPYLBENZENE	15.69	120	10439	0.97	PPBV	97
90) 4-ETHYLTOLUENE	15.87	105	35709	0.96	PPBV	100
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	26705	0.93	PPBV	99
92) ALPHA-METHYLSTYRENE	16.19	118	8160	0.75	PPBV	97
93) tert-BUTYLBENZENE	16.45	134	6724	0.97	PPBV	99
94) 1,2,4-TRIMETHYLBENZENE	16.47	105	22670	0.90	PPBV #	85
95) m-DICHLOROBENZENE	16.67	146	18193	0.97	PPBV	97

(#) = qualifier out of range (m) = manual integration

3W22420.D M3W886.M

Mon May 16 12:42:29 2011

MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22420.D Vial: 1
Acq On : 13 May 2011 1:57 pm Operator: yunxiac
Sample : ic886-1 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 14:46:02 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri May 13 14:00:46 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) BENZYL CHLORIDE	16.66	91	19984	0.98	PPBV	99
97) p-DICHLOROBENZENE	16.75	146	17007	0.94	PPBV	99
98) sec-BUTYLBENZENE	16.80	134	7405	0.91	PPBV #	92
99) p-ISOPROPYLTOLUENE	16.98	134	6875	0.89	PPBV	100
100) o-DICHLOROBENZENE	17.18	146	15418	0.94	PPBV	99
101) n-BUTYLBENZENE	17.50	134	5061	0.86	PPBV	99
102) HEXACHLOROETHANE	17.99	117	10375	0.84	PPBV	99
103) HEXACHLOROBUTADIENE	19.79	225	8357	0.90	PPBV	96
104) 1,2,4-TRICHLOROBENZENE	19.24	180	3969	0.85	PPBV	96
106) NAPHTHALENE	19.37	128	4298	0.76	PPBV	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W22420.D M3W886.M Mon May 16 12:42:29 2011 MS3W

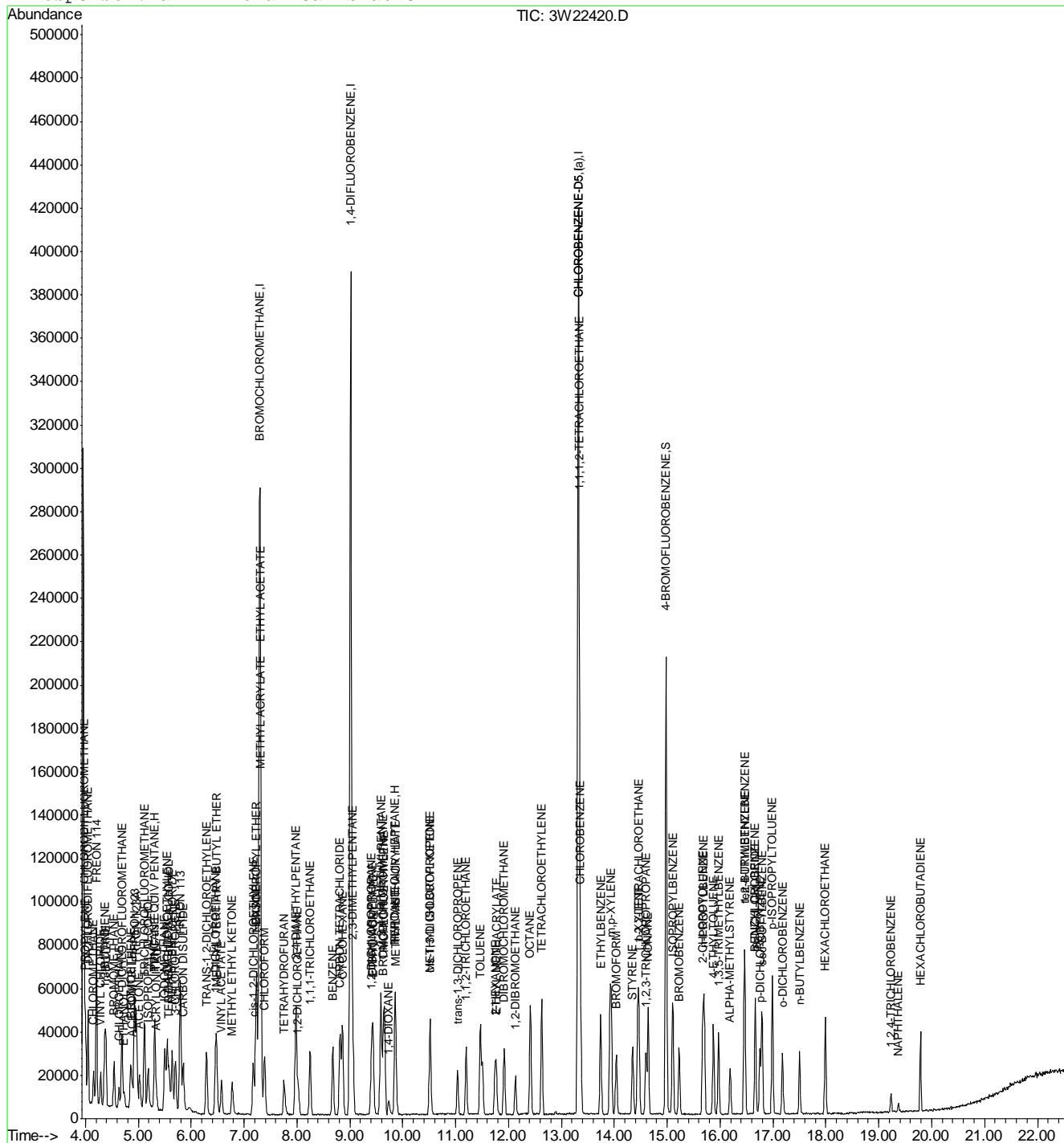
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22420.D
Acq On : 13 May 2011 1:57 pm
Sample : ic886-1
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:13 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 11:05:58 2011
Response via : Initial Calibration



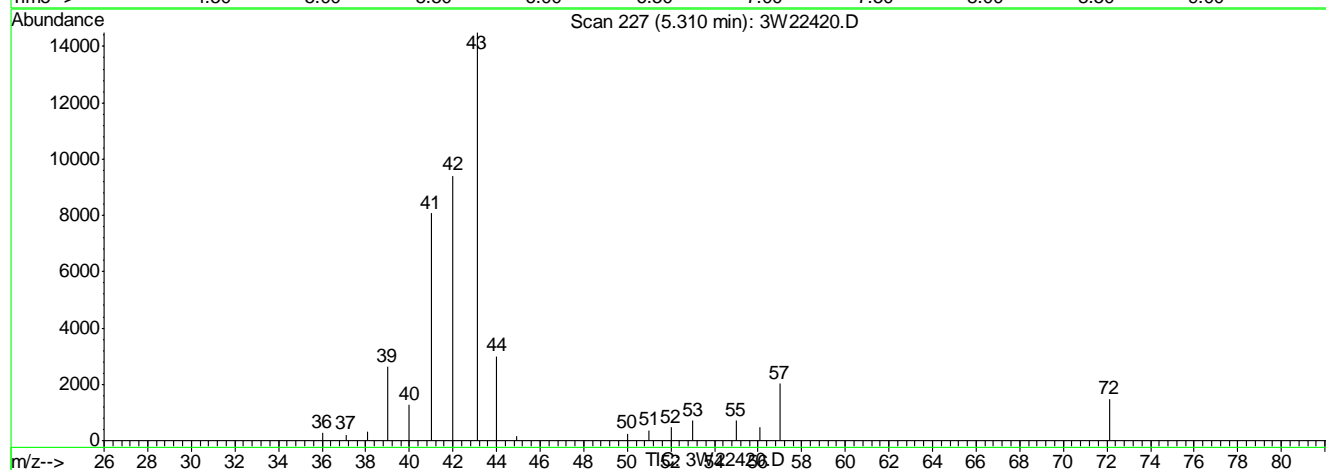
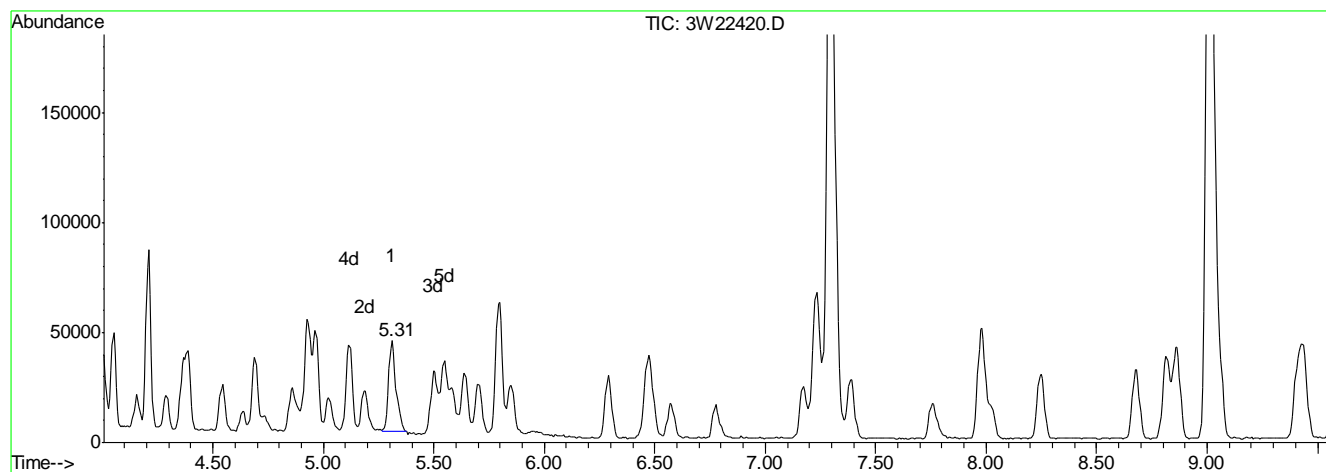
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22420.D
 Acq On : 13 May 2011 1:57 pm
 Sample : ic886-1
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:13 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:55:05 2011
 Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.31min 1.06PPBV m

response 96492

Signal	Exp%	Act%
TIC	100	100
0.00	1.20	0.00
0.00	1.00	0.00
0.00	0.00	0.00

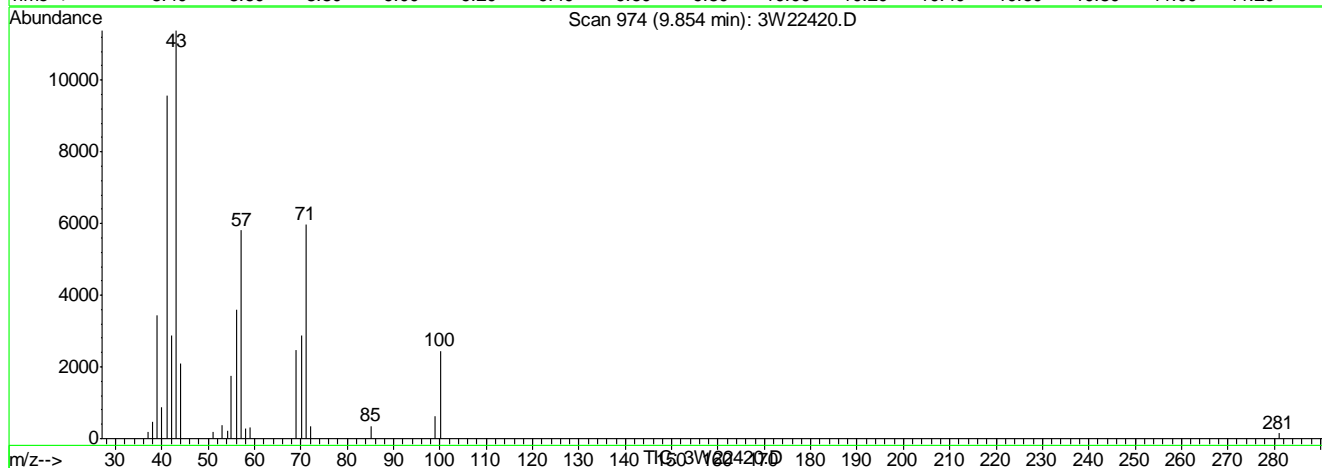
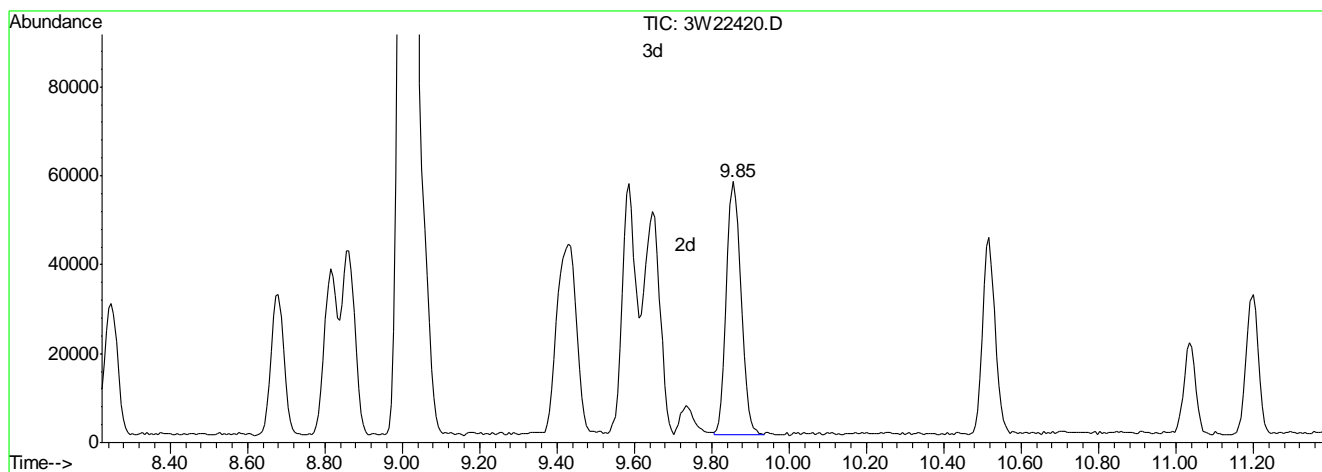
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22420.D
 Acq On : 13 May 2011 1:57 pm
 Sample : ic886-1
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:13 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:55:05 2011
 Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.85min 1.10PPBV m

response 148190

Signal	Exp%	Act%
TIC	100	100
0.00	0.80	0.00
0.00	0.70	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22421.D
 Acq On : 13 May 2011 2:37 pm
 Sample : ic886-0.2
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:20:28 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:18:19 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.29	128	89260	10.00	PPBV	-0.02
49) 1,4-DIFLUOROBENZENE	9.01	114	371068	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	155295	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	155295	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.98	95	74895	4.52	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	90.40%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	3.99	67	849	0.24	PPBV	70
5) DICHLORODIFLUOROMETHANE	4.05	85	7331	0.22	PPBV	96
6) PROPYLENE	4.00	41	4968	0.33	PPBV	95
7) FREON 114	4.21	85	8036	0.22	PPBV	98
8) CHLOROMETHANE	4.16	50	3312	0.22	PPBV	84
9) VINYL CHLORIDE	4.29	62	3012	0.21	PPBV	90
10) 1,3-BUTADIENE	4.37	54	2249	0.21	PPBV #	57
11) n-BUTANE	4.39	43	6131	0.23	PPBV	91
12) BROMOMETHANE	4.54	94	2754	0.21	PPBV	94
13) CHLOROETHANE	4.64	64	1450	0.21	PPBV	90
14) DICHLOROFLUOROMETHANE	4.69	67	6283	0.21	PPBV	96
15) ACETONITRILE	4.89	41	3223	0.25	PPBV #	91
16) FREON 123	4.93	83	5501	0.20	PPBV	97
17) FREON 123A	4.97	117	2955	0.20	PPBV	99
18) TRICHLOROFLUOROMETHANE	5.12	101	6503	0.21	PPBV	99
19) ISOPROPYL ALCOHOL	5.19	45	4996	0.23	PPBV	86
20) ACETONE	5.04	58	1375	0.27	PPBV #	71
21) PENTANE	5.31	42	3847	0.22	PPBV	90
22) TVHC as EQUIV PENTANE	5.30	TIC	12530m	0.14	PPBV	
23) IODOMETHANE	5.50	142	6940	0.21	PPBV	94
24) 1,1-DICHLOROETHYLENE	5.55	96	2708	0.23	PPBV	98
25) CARBON DISULFIDE	5.85	76	6966	0.21	PPBV #	59
26) ETHANOL	4.74	45	2555	0.35	PPBV	91
27) BROMOETHENE	4.86	106	2755	0.23	PPBV	92
28) ACRYLONITRILE	5.34	52	1224	0.18	PPBV	94
29) METHYLENE CHLORIDE	5.63	84	2815	0.23	PPBV	100
30) 3-CHLOROPROPENE	5.71	76	874	0.16	PPBV #	1
31) FREON 113	5.80	151	4360	0.22	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	6.29	96	2316	0.21	PPBV	98
33) TERTIARY BUTYL ALCOHOL	5.59	59	4027	0.19	PPBV #	44
34) METHYL TERTIARY BUTYL ETHER	6.49	73	4994	0.19	PPBV	89
35) TETRAHYDROFURAN	7.79	72	632	0.15	PPBV #	51
36) HEXANE	7.22	57	4358	0.22	PPBV	94
37) VINYL ACETATE	6.58	86	132	0.06	PPBV #	1
38) 1,1-DICHLOROETHANE	6.46	63	4198	0.19	PPBV	94
39) METHYL ETHYL KETONE	6.79	72	533	0.12	PPBV #	41
40) cis-1,2-DICHLOROETHYLENE	7.17	96	2081	0.18	PPBV	95
41) DIISOPROPYL ETHER	7.25	45	6601	0.20	PPBV	93
42) ETHYL ACETATE	7.34	61	361	0.06	PPBV #	1
43) METHYL ACRYLATE	7.34	55	2867	0.18	PPBV #	80

(#) = qualifier out of range (m) = manual integration

3W22421.D M3W886.M

Mon May 16 12:42:31 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22421.D
 Acq On : 13 May 2011 2:37 pm
 Sample : ic886-0.2
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:20:28 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:18:19 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CHLOROFORM	7.38	83	4508	0.19	PPBV	98
45) 2,4-DIMETHYLPENTANE	7.97	57	4793	0.21	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.24	97	3953	0.18	PPBV	98
47) CARBON TETRACHLORIDE	8.82	117	5024	0.21	PPBV	96
48) 1,2-DICHLOROETHANE	8.02	62	2342	0.18	PPBV #	89
50) BENZENE	8.67	78	5980	0.18	PPBV	99
51) CYCLOHEXANE	8.87	69	1300	0.04	PPBV #	85
52) 2,3-DIMETHYLPENTANE	9.05	71	1978	0.20	PPBV #	1
53) TRICHLOROETHYLENE	9.66	95	2624	0.19	PPBV	94
54) 1,2-DICHLOROPROPANE	9.40	63	2234	0.18	PPBV	88
55) DIBROMOMETHANE	9.43	174	2263	0.18	PPBV	96
56) ETHYL ACRYLATE	9.46	55	2885	0.17	PPBV #	80
57) BROMODICHLOROMETHANE	9.63	83	4094	0.19	PPBV	95
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	10631	0.19	PPBV	95
59) 1,4-DIOXANE	9.75	88	932	0.17	PPBV #	75
60) HEPTANE	9.85	43	4439	0.19	PPBV	98
61) TVHC as EQUIV HEPTANE	9.85	TIC	24648m	0.18	PPBV	
62) METHYL METHACRYLATE	9.88	69	1423	0.16	PPBV #	1
63) METHYL ISOBUTYL KETONE	10.54	58	1239	0.17	PPBV #	80
64) cis-1,3-DICHLOROPROPENE	10.51	75	2589	0.16	PPBV	87
65) TOLUENE	11.47	92	3610	0.17	PPBV	97
66) trans-1,3-DICHLOROPROPENE	11.04	75	2085	0.14	PPBV	91
67) 1,1,2-TRICHLOROETHANE	11.19	83	1894	0.18	PPBV	94
69) 2-HEXANONE	11.76	58	1503	0.18	PPBV #	66
70) ETHYL METHACRYLATE	11.78	69	1899	0.19	PPBV #	79
71) TETRACHLOROETHYLENE	12.62	164	2579	0.19	PPBV	93
72) DIBROMOCHLOROMETHANE	11.92	129	3312	0.18	PPBV	98
73) 1,2-DIBROMOETHANE	12.13	107	2506	0.17	PPBV #	97
74) OCTANE	12.42	43	4767	0.19	PPBV	92
75) 1,1,1,2-TETRACHLOROETHANE	13.35	131	2233	0.18	PPBV	95
76) CHLOROBENZENE	13.37	112	4279	0.18	PPBV	92
77) ETHYLBENZENE	13.74	91	6555	0.18	PPBV	99
78) m,p-XYLENE	13.92	106	4841	0.36	PPBV	92
79) o-XYLENE	14.45	106	2277	0.18	PPBV	88
80) STYRENE	14.34	104	2458	0.15	PPBV	95
81) NONANE	14.64	43	3575	0.17	PPBV #	97
82) BROMOFORM	14.03	173	2547	0.16	PPBV #	92
84) 1,1,2,2-TETRACHLOROETHANE	14.47	83	2832	0.17	PPBV	93
85) 1,2,3-TRICHLOROPROPANE	14.60	75	2417	0.18	PPBV	88
86) ISOPROPYLBENZENE	15.10	105	6102	0.17	PPBV	96
87) BROMOBENZENE	15.23	77	2733	0.18	PPBV	94
88) 2-CHLOROTOLUENE	15.68	126	1429	0.16	PPBV	78
89) n-PROPYLBENZENE	15.69	120	1297	0.16	PPBV #	62
90) 4-ETHYLTOLUENE	15.88	105	4531	0.16	PPBV #	94
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	3904	0.17	PPBV	91
92) ALPHA-METHYLSTYRENE	16.19	118	1108	0.12	PPBV	95
93) tert-BUTYLBENZENE	16.46	134	752	0.13	PPBV #	74
94) 1,2,4-TRIMETHYLBENZENE	16.47	105	3435	0.16	PPBV	96
95) m-DICHLOROBENZENE	16.66	146	2532	0.17	PPBV	93

(#) = qualifier out of range (m) = manual integration

3W22421.D M3W886.M

Mon May 16 12:42:31 2011

MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22421.D Vial: 1
Acq On : 13 May 2011 2:37 pm Operator: yunxiac
Sample : ic886-0.2 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 16 10:20:28 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 10:18:19 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) BENZYL CHLORIDE	16.66	91	2933	0.17	PPBV	85
97) p-DICHLOROBENZENE	16.75	146	2537	0.17	PPBV	95
98) sec-BUTYLBENZENE	16.79	134	827	0.13	PPBV #	63
99) p-ISOPROPYLTOLUENE	16.98	134	881	0.14	PPBV #	76
100) o-DICHLOROBENZENE	17.18	146	2146	0.16	PPBV	94
101) n-BUTYLBENZENE	17.50	134	694	0.13	PPBV #	77
102) HEXACHLOROETHANE	17.99	117	1250	0.13	PPBV	95
103) HEXACHLOROBUTADIENE	19.78	225	1267	0.17	PPBV	95
104) 1,2,4-TRICHLOROBENZENE	19.23	180	758	0.15	PPBV #	82
106) NAPHTHALENE	19.38	128	961	0.15	PPBV #	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W22421.D M3W886.M Mon May 16 12:42:31 2011 MS3W

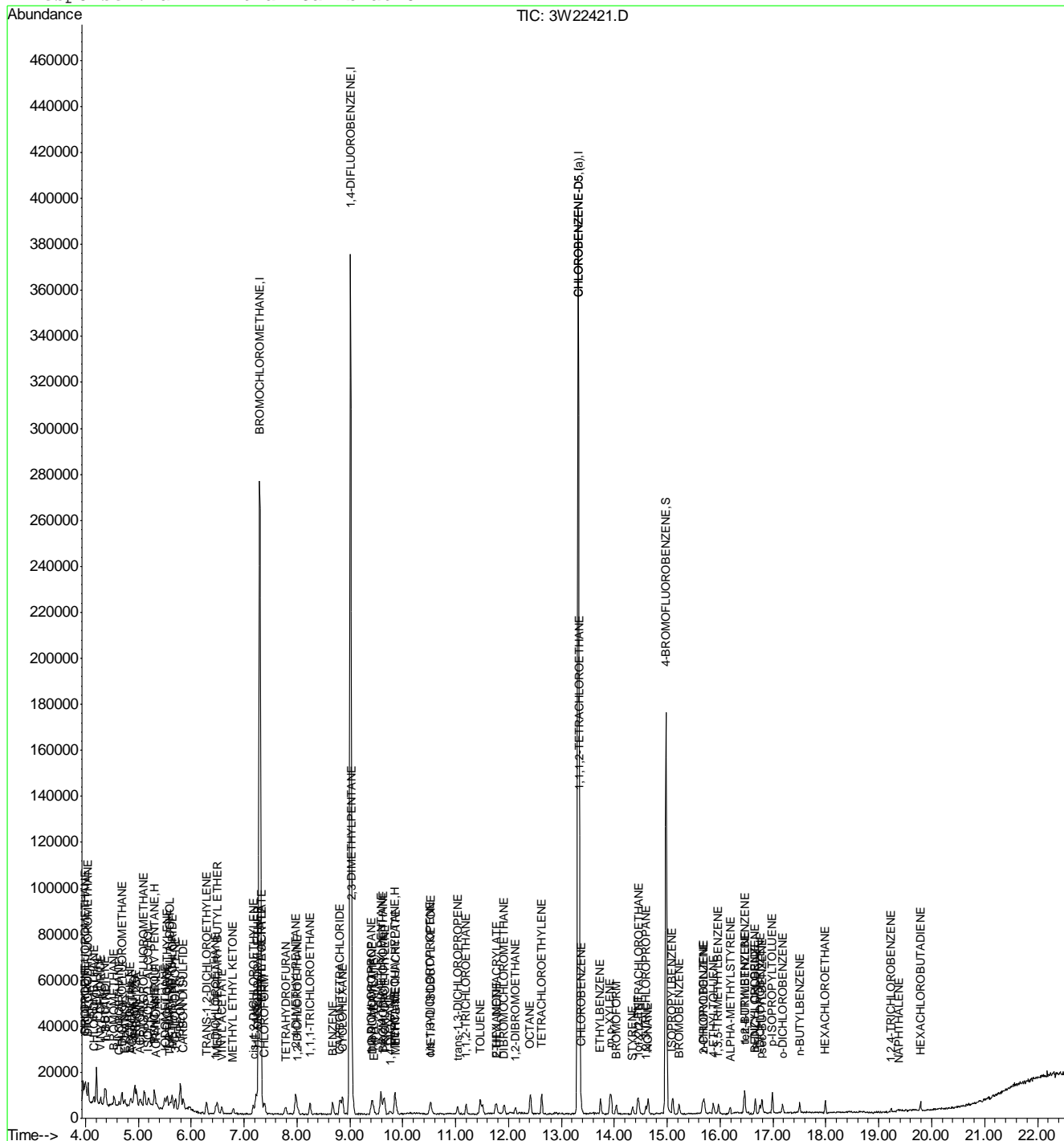
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22421.D
Acq On : 13 May 2011 2:37 pm
Sample : ic886-0.2
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:20 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 11:05:58 2011
Response via : Initial Calibration



3W22421.D M3W886.M

Mon May 16 12:42:32 2011

MS 3W

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6.6.5

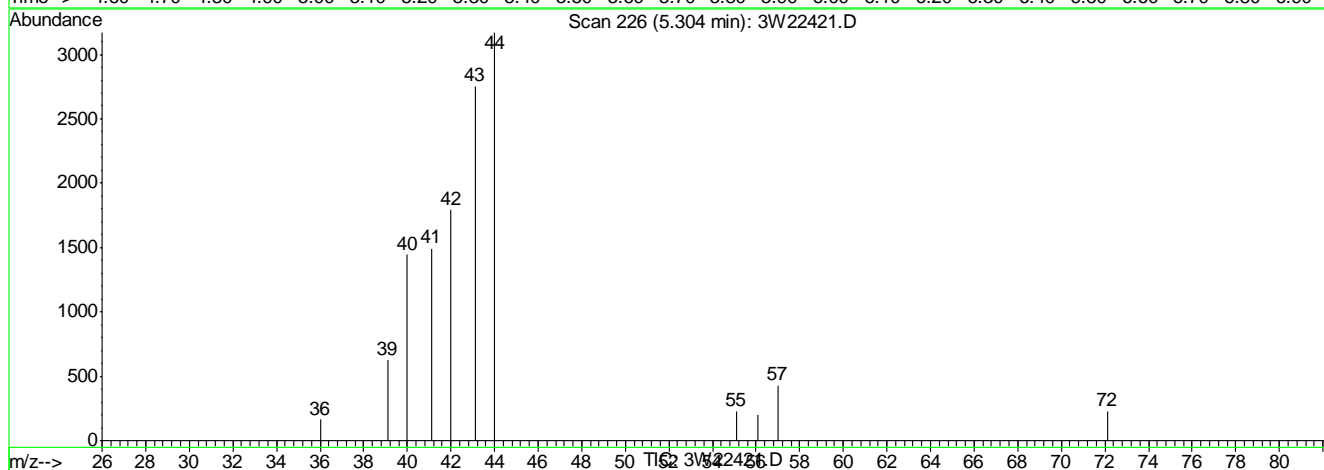
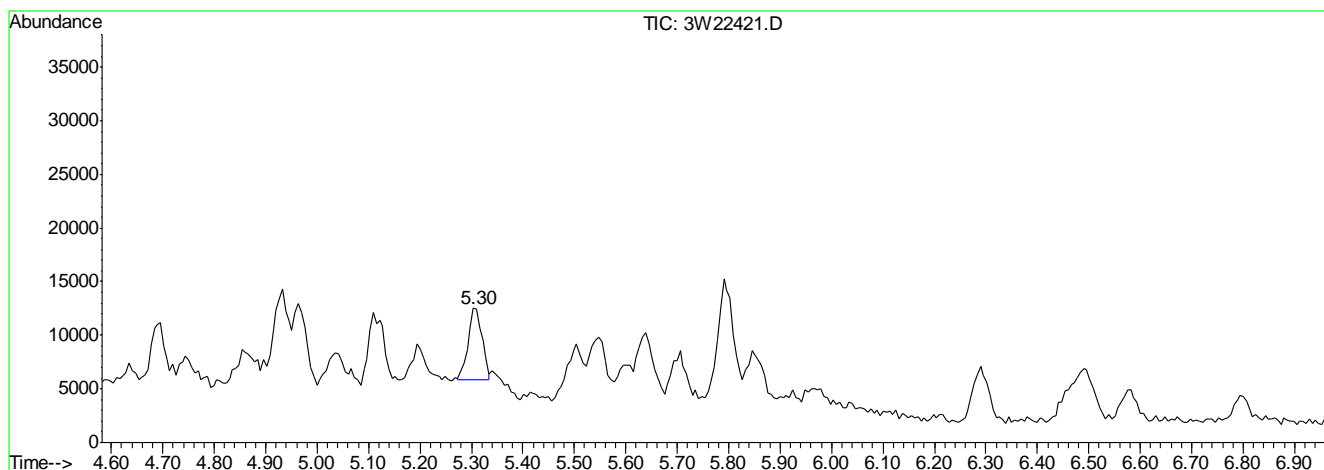
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22421.D
 Acq On : 13 May 2011 2:37 pm
 Sample : ic886-0.2
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:20 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:55:05 2011
 Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.30min 0.14PPBV m

response 12530

Signal Exp% Act%

TIC 100 100

0.00 1.20 0.00

0.00 1.00 0.00

0.00 0.00 0.00

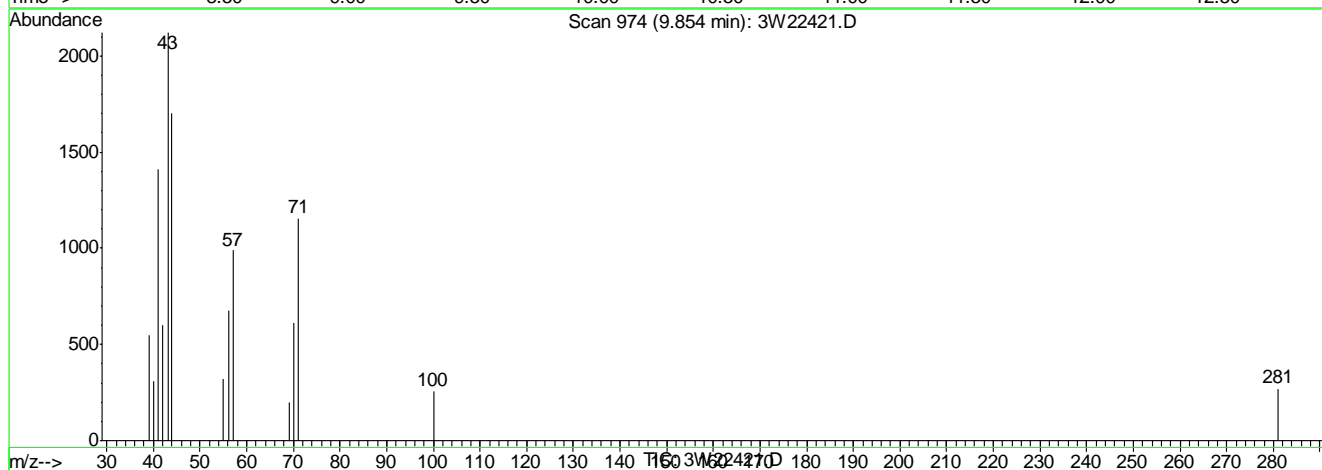
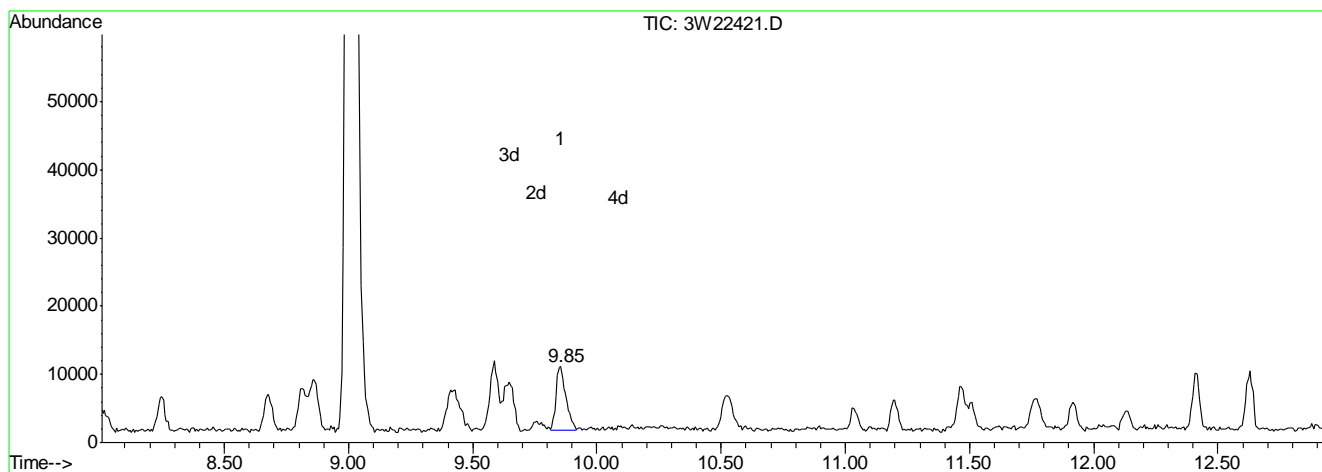
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22421.D
 Acq On : 13 May 2011 2:37 pm
 Sample : ic886-0.2
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 10:20 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 10:55:05 2011
 Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.85min 0.18PPBV m

response 24648

Signal	Exp%	Act%
TIC	100	100
0.00	0.80	0.00
0.00	0.70	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22422.D
 Acq On : 13 May 2011 3:57 pm
 Sample : ic886-0.04
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 16:34:52 2011

Vial: 4
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 15:37:38 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.29	128	92731	10.00	PPBV	-0.02
49) 1,4-DIFLUOROBENZENE	9.01	114	397164	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	162939	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	162939	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE 14.98 95 74756 4.20 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 84.00%

Target Compounds

Qvalue

5) DICHLORODIFLUOROMETHANE	4.06	85	1540	0.04	PPBV	92
6) PROPYLENE	4.01	41	2138	0.11	PPBV	# 77
7) FREON 114	4.21	85	1547	0.04	PPBV	87
8) CHLOROMETHANE	4.16	50	872	0.05	PPBV	# 41
9) VINYL CHLORIDE	4.29	62	484	0.03	PPBV	# 91
10) 1,3-BUTADIENE	4.37	54	440	0.03	PPBV	# 26
11) n-BUTANE	4.39	43	1635	0.06	PPBV	# 38
12) BROMOMETHANE	4.54	94	613	0.04	PPBV	# 81
13) CHLOROETHANE	4.64	64	206	0.02	PPBV	# 45
14) DICHLOROFLUOROMETHANE	4.70	67	1398	0.04	PPBV	# 92
15) ACETONITRILE	4.90	41	1582	0.12	PPBV	# 49
16) FREON 123	4.93	83	890	0.03	PPBV	# 81
17) FREON 123A	4.96	117	458	0.03	PPBV	# 54
18) TRICHLOROFLUOROMETHANE	5.11	101	1464	0.04	PPBV	# 90
19) ISOPROPYL ALCOHOL	5.21	45	1604	0.06	PPBV	# 70
20) ACETONE	5.04	58	331	0.05	PPBV	# 1
21) PENTANE	5.31	42	951	0.05	PPBV	# 15
23) IODOMETHANE	5.50	142	1268	0.03	PPBV	93
24) 1,1-DICHLOROETHYLENE	5.56	96	452	0.03	PPBV	92
25) CARBON DISULFIDE	5.85	76	1497	0.04	PPBV	# 2
26) ETHANOL	4.74	45	1558	0.15	PPBV	73
27) BROMOETHENE	4.86	106	427	0.03	PPBV	# 76
29) METHYLENE CHLORIDE	5.64	84	1260	0.08	PPBV	96
31) FREON 113	5.79	151	771	0.03	PPBV	92
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	403	0.03	PPBV	# 70
33) TERTIARY BUTYL ALCOHOL	5.60	59	734	0.03	PPBV	# 1
34) METHYL TERTIARY BUTYL ETHER	6.51	73	1077	0.04	PPBV	# 72
36) HEXANE	7.23	57	785	0.03	PPBV	83
38) 1,1-DICHLOROETHANE	6.47	63	802	0.03	PPBV	# 68
40) cis-1,2-DICHLOROETHYLENE	7.18	96	342	0.03	PPBV	# 57
41) DIISOPROPYL ETHER	7.26	45	1372	0.04	PPBV	# 71
42) ETHYL ACETATE	7.17	61	573	0.20	PPBV	# 1
43) METHYL ACRYLATE	7.35	55	457	0.03	PPBV	# 66
44) CHLOROFORM	7.38	83	859	0.03	PPBV	# 79
45) 2,4-DIMETHYLPENTANE	7.97	57	748	0.03	PPBV	# 83
46) 1,1,1-TRICHLOROETHANE	8.25	97	789	0.03	PPBV	# 52
47) CARBON TETRACHLORIDE	8.81	117	748	0.03	PPBV	# 73
48) 1,2-DICHLOROETHANE	8.04	62	360	0.02	PPBV	# 49
50) BENZENE	8.68	78	1418	0.04	PPBV	# 67
51) CYCLOHEXANE	9.01	69	10023	1.38	PPBV	# 1

(#) = qualifier out of range (m) = manual integration

3W22422.D M3W886.M

Mon May 16 12:42:33 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22422.D
 Acq On : 13 May 2011 3:57 pm
 Sample : ic886-0.04
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 16:34:52 2011

Vial: 4
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 15:37:38 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2,3-DIMETHYLPENTANE	9.01	71	760	0.07	PPBV #	1
53) TRICHLOROETHYLENE	9.66	95	499	0.03	PPBV #	60
54) 1,2-DICHLOROPROPANE	9.41	63	430	0.03	PPBV #	41
55) DIBROMOMETHANE	9.43	174	451	0.03	PPBV #	64
57) BROMODICHLOROMETHANE	9.63	83	719	0.03	PPBV #	86
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	2311	0.03	PPBV #	94
60) HEPTANE	9.85	43	1068	0.04	PPBV #	70
64) cis-1,3-DICHLOROPROPENE	10.52	75	475	0.02	PPBV #	72
65) TOLUENE	11.47	92	708	0.03	PPBV #	75
66) trans-1,3-DICHLOROPROPENE	11.03	75	462	0.03	PPBV #	60
70) ETHYL METHACRYLATE	11.78	69	275	0.02	PPBV #	51
71) TETRACHLOROETHYLENE	12.63	164	545	0.03	PPBV #	75
72) DIBROMOCHLOROMETHANE	11.92	129	647	0.03	PPBV #	77
73) 1,2-DIBROMOETHANE	12.14	107	401	0.02	PPBV #	98
74) OCTANE	12.41	43	910	0.03	PPBV #	67
75) 1,1,1,2-TETRACHLOROETHANE	13.34	131	364	0.02	PPBV #	39
76) CHLOROBENZENE	13.36	112	887	0.03	PPBV #	29
77) ETHYLBENZENE	13.74	91	1499	0.03	PPBV #	82
78) m,p-XYLENE	13.93	106	977	0.06	PPBV #	79
79) o-XYLENE	14.45	106	333	0.02	PPBV #	52
80) STYRENE	14.34	104	415	0.02	PPBV #	56
81) NONANE	14.64	43	856	0.03	PPBV #	59
82) BROMOFORM	14.04	173	422	0.02	PPBV #	36
84) 1,1,2,2-TETRACHLOROETHANE	14.48	83	480	0.02	PPBV #	70
85) 1,2,3-TRICHLOROPROPANE	14.61	75	474	0.03	PPBV #	42
86) ISOPROPYLBENZENE	15.10	105	1170	0.03	PPBV #	54
87) BROMOBENZENE	15.23	77	372	0.02	PPBV #	70
90) 4-ETHYLTOLUENE	15.88	105	778	0.02	PPBV #	76
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	744	0.03	PPBV #	66
94) 1,2,4-TRIMETHYLBENZENE	16.48	105	548	0.02	PPBV #	16
95) m-DICHLOROBENZENE	16.67	146	543	0.03	PPBV #	45
96) BENZYL CHLORIDE	16.67	91	586	0.03	PPBV #	60
97) p-DICHLOROBENZENE	16.75	146	449	0.03	PPBV #	60
100) o-DICHLOROBENZENE	17.19	146	339	0.02	PPBV #	70

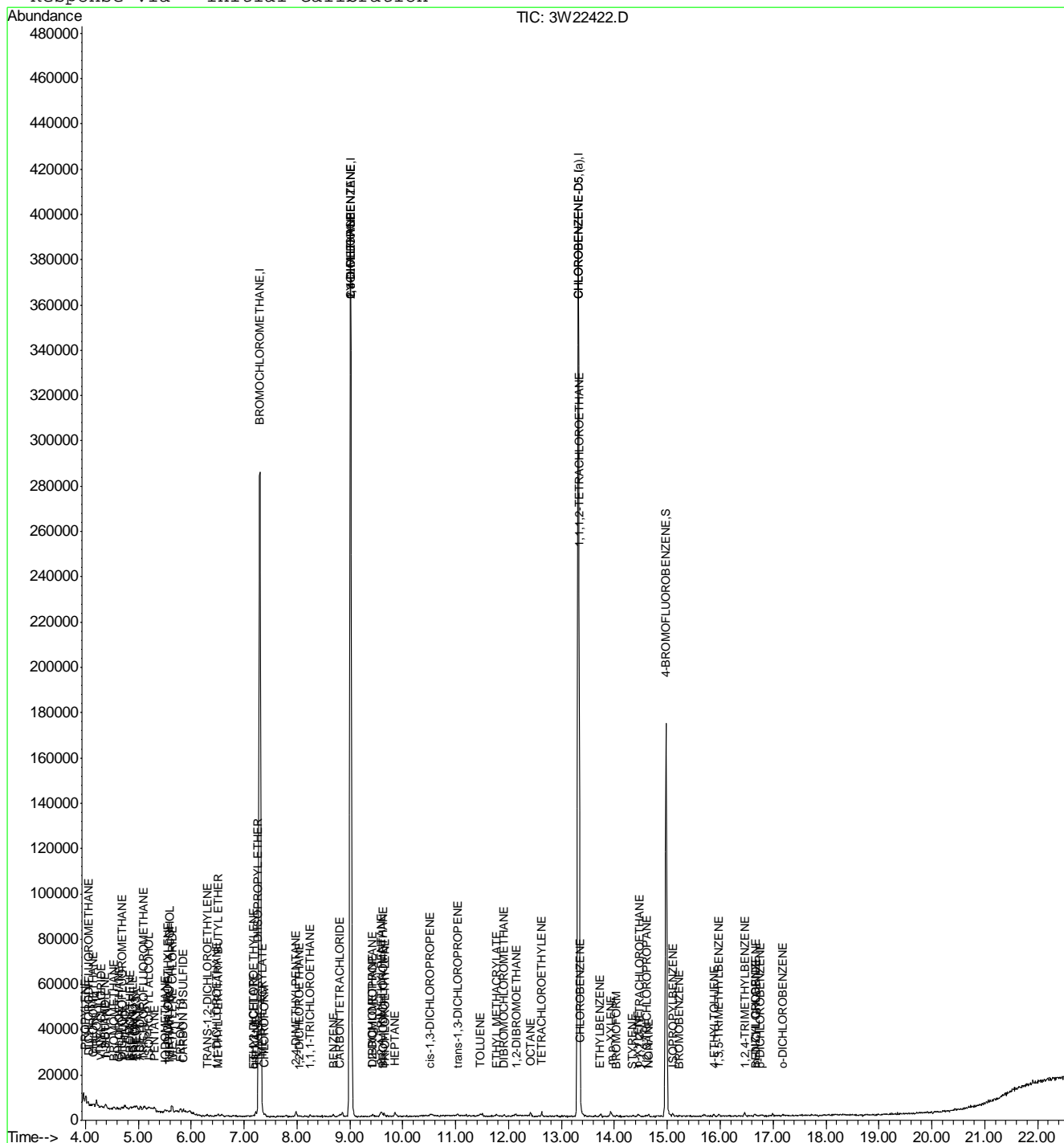
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W22422.D M3W886.M Mon May 16 12:42:33 2011 MS3W

(OT Reviewed)

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 11:05:58 2011
Response via : Initial Calibration



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6.6.7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22423.D Vial: 4
 Acq On : 13 May 2011 4:38 pm Operator: yunxiac
 Sample : ic886-0.1 Inst : MS3W
 Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 13 17:08:38 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 16:35:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	92117	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	9.01	114	378846	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	158581	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	158581	10.00	PPBV	0.00

System Monitoring Compounds
 83) 4-BROMOFLUOROBENZENE 14.98 95 74706 4.35 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 87.00%

Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	3.98	67	393	0.10	PPBV	# 41
5) DICHLORODIFLUOROMETHANE	4.05	85	3524	0.10	PPBV	92
6) PROPYLENE	4.01	41	2685	0.13	PPBV	# 56
7) FREON 114	4.21	85	3582	0.09	PPBV	96
8) CHLOROMETHANE	4.16	50	1603	0.10	PPBV	98
9) VINYL CHLORIDE	4.29	62	1430	0.10	PPBV	# 86
10) 1,3-BUTADIENE	4.37	54	984	0.09	PPBV	# 37
11) n-BUTANE	4.39	43	3412	0.12	PPBV	86
12) BROMOMETHANE	4.55	94	1298	0.09	PPBV	# 89
13) CHLOROETHANE	4.63	64	668	0.09	PPBV	# 60
14) DICHLOROFLUOROMETHANE	4.70	67	2794	0.09	PPBV	# 85
15) ACETONITRILE	4.89	41	2340	0.14	PPBV	# 16
16) FREON 123	4.93	83	2822	0.10	PPBV	# 74
17) FREON 123A	4.97	117	1263	0.08	PPBV	# 75
18) TRICHLOROFLUOROMETHANE	5.12	101	2991	0.09	PPBV	98
19) ISOPROPYL ALCOHOL	5.20	45	2854	0.11	PPBV	71
20) ACETONE	5.04	58	484	0.08	PPBV	# 1
21) PENTANE	5.30	42	2159	0.12	PPBV	# 60
23) IODOMETHANE	5.50	142	3040	0.09	PPBV	97
24) 1,1-DICHLOROETHYLENE	5.54	96	1122	0.09	PPBV	94
25) CARBON DISULFIDE	5.85	76	3305	0.09	PPBV	# 48
26) ETHANOL	4.74	45	1428	0.12	PPBV	90
27) BROMOETHENE	4.86	106	1143	0.09	PPBV	# 94
28) ACRYLONITRILE	5.35	52	383	0.05	PPBV	# 40
29) METHYLENE CHLORIDE	5.64	84	1811	0.12	PPBV	93
30) 3-CHLOROPROPENE	5.71	76	429	0.08	PPBV	# 16
31) FREON 113	5.79	151	1932	0.09	PPBV	95
32) TRANS-1,2-DICHLOROETHYLENE	6.29	96	969	0.08	PPBV	95
33) TERTIARY BUTYL ALCOHOL	5.61	59	1864	0.08	PPBV	77
34) METHYL TERTIARY BUTYL ETHER	6.50	73	2456	0.09	PPBV	79
35) TETRAHYDROFURAN	7.79	72	121	0.03	PPBV	# 1
36) HEXANE	7.23	57	1972	0.09	PPBV	# 82
38) 1,1-DICHLOROETHANE	6.46	63	1965	0.09	PPBV	# 86
40) cis-1,2-DICHLOROETHYLENE	7.18	96	908	0.08	PPBV	85
41) DIISOPROPYL ETHER	7.26	45	3195	0.09	PPBV	88
42) ETHYL ACETATE	7.17	61	1394	0.31	PPBV	# 1
43) METHYL ACRYLATE	7.34	55	1107	0.07	PPBV	# 66
44) CHLOROFORM	7.39	83	2224	0.09	PPBV	93
45) 2,4-DIMETHYLPENTANE	7.98	57	2088	0.09	PPBV	92
46) 1,1,1-TRICHLOROETHANE	8.25	97	1944	0.09	PPBV	97

(#) = qualifier out of range (m) = manual integration

3W22423.D M3W886.M Mon May 16 16:44:00 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22423.D
 Acq On : 13 May 2011 4:38 pm
 Sample : ic886-0.1
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 13 17:08:38 2011

Vial: 4
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Fri May 13 16:35:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) CARBON TETRACHLORIDE	8.81	117	2150	0.09	PPBV	92
48) 1,2-DICHLOROETHANE	8.03	62	1150	0.08	PPBV #	73
50) BENZENE	8.67	78	2962	0.09	PPBV	94
53) TRICHLOROETHYLENE	9.65	95	1207	0.08	PPBV	97
54) 1,2-DICHLOROPROPANE	9.40	63	1121	0.09	PPBV #	62
55) DIBROMOMETHANE	9.43	174	1106	0.08	PPBV	94
56) ETHYL ACRYLATE	9.47	55	1162	0.07	PPBV #	72
57) BROMODICHLOROMETHANE	9.62	83	1798	0.08	PPBV	99
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	5303	0.09	PPBV #	92
59) 1,4-DIOXANE	9.76	88	340	0.06	PPBV #	29
60) HEPTANE	9.85	43	2340	0.10	PPBV	90
62) METHYL METHACRYLATE	9.88	69	508	0.05	PPBV #	1
63) METHYL ISOBUTYL KETONE	10.54	58	452	0.06	PPBV #	24
64) cis-1,3-DICHLOROPROPENE	10.51	75	1282	0.08	PPBV	85
65) TOLUENE	11.47	92	1971	0.09	PPBV	94
66) trans-1,3-DICHLOROPROPENE	11.04	75	935	0.06	PPBV #	69
67) 1,1,2-TRICHLOROETHANE	11.19	83	928	0.09	PPBV	84
69) 2-HEXANONE	11.76	58	338	0.04	PPBV #	1
70) ETHYL METHACRYLATE	11.77	69	371	0.03	PPBV #	1
71) TETRACHLOROETHYLENE	12.62	164	1321	0.09	PPBV	86
72) DIBROMOCHLOROMETHANE	11.92	129	1667	0.09	PPBV	81
73) 1,2-DIBROMOETHANE	12.13	107	1117	0.07	PPBV #	91
74) OCTANE	12.41	43	2290	0.09	PPBV	88
75) 1,1,1,2-TETRACHLOROETHANE	13.34	131	1072	0.08	PPBV	96
76) CHLOROBENZENE	13.36	112	2118	0.09	PPBV	89
77) ETHYLBENZENE	13.74	91	3159	0.08	PPBV #	91
78) m,p-XYLENE	13.94	106	2339	0.16	PPBV #	72
79) o-XYLENE	14.45	106	1093	0.08	PPBV	90
80) STYRENE	14.34	104	942	0.05	PPBV	78
81) NONANE	14.64	43	1559	0.07	PPBV #	75
82) BROMOFORM	14.04	173	1087	0.07	PPBV #	88
84) 1,1,2,2-TETRACHLOROETHANE	14.47	83	1244	0.07	PPBV #	93
85) 1,2,3-TRICHLOROPROPANE	14.59	75	997	0.07	PPBV	74
86) ISOPROPYLBENZENE	15.10	105	2817	0.07	PPBV	93
87) BROMOBENZENE	15.23	77	1052	0.06	PPBV	95
88) 2-CHLOROTOLUENE	15.67	126	554	0.06	PPBV #	43
89) n-PROPYLBENZENE	15.70	120	495	0.06	PPBV #	62
90) 4-ETHYLTOLUENE	15.88	105	1778	0.06	PPBV #	93
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	1538	0.06	PPBV #	82
92) ALPHA-METHYLSTYRENE	16.19	118	322	0.03	PPBV #	59
93) tert-BUTYLBENZENE	16.46	134	296	0.05	PPBV #	54
94) 1,2,4-TRIMETHYLBENZENE	16.47	105	1365	0.06	PPBV	91
95) m-DICHLOROBENZENE	16.66	146	1112m	0.07	PPBV	
96) BENZYL CHLORIDE	16.66	91	905	0.05	PPBV #	60
97) p-DICHLOROBENZENE	16.75	146	903	0.06	PPBV	84
98) sec-BUTYLBENZENE	16.79	134	284	0.04	PPBV #	1
99) p-ISOPROPYLTOLUENE	16.98	134	149	0.02	PPBV #	1
100) o-DICHLOROBENZENE	17.19	146	837	0.06	PPBV	86
101) n-BUTYLBENZENE	17.50	134	124	0.02	PPBV #	1

(#) = qualifier out of range (m) = manual integration

3W22423.D M3W886.M

Mon May 16 16:44:00 2011

MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22423.D Vial: 4
Acq On : 13 May 2011 4:38 pm Operator: yunxiac
Sample : ic886-0.1 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:08:38 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Fri May 13 16:35:24 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) HEXACHLOROETHANE	17.99	117	463	0.05	PPBV	88
103) HEXACHLOROBUTADIENE	19.78	225	313	0.04	PPBV	86

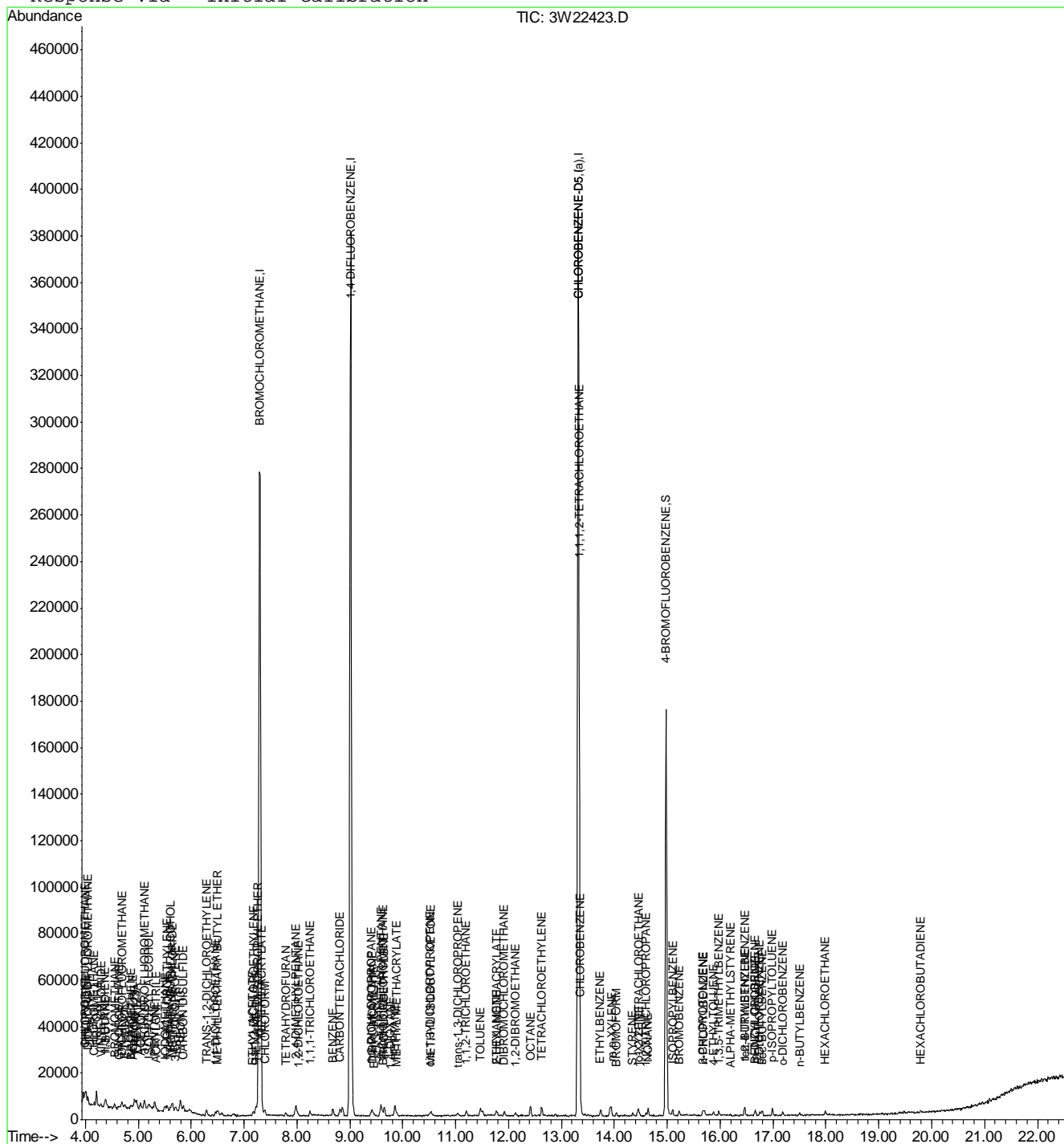
(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W22423.D M3W886.M Mon May 16 16:44:00 2011 MS3W

(OT Reviewed)

Vial: 4
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration



Page 4

6.7.7

Manual Integration Approval Summary

Sample Number: V3W886-IC886

Method: TO-15

Lab FileID: 3W22423.D

Analyst approved: 05/16/11 16:41 Yunxia Chen

Injection Time: 05/13/11 16:38

Supervisor approved: 05/23/11 16:41 Jessica Reitan-Chu

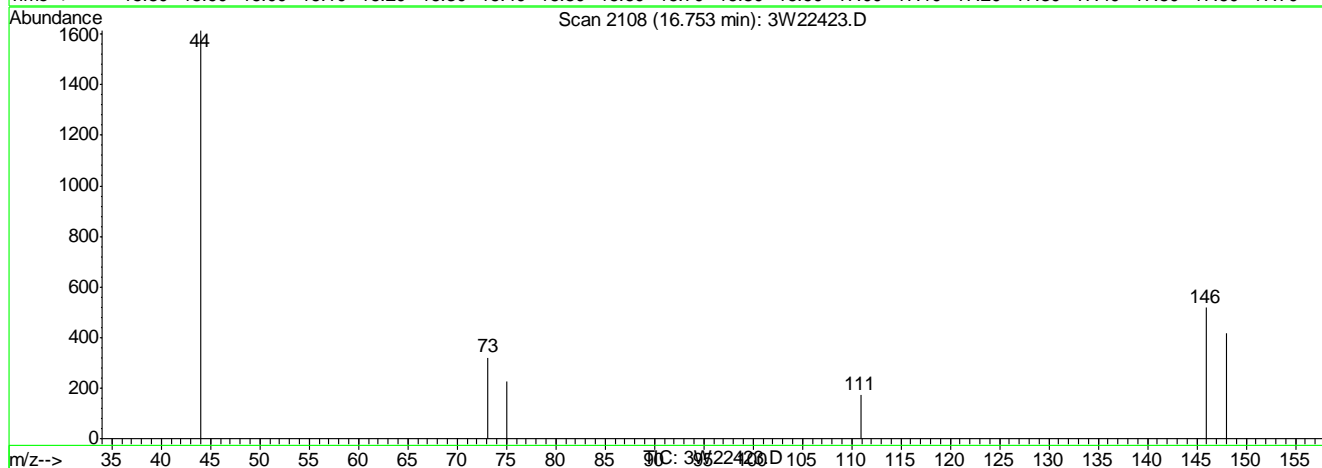
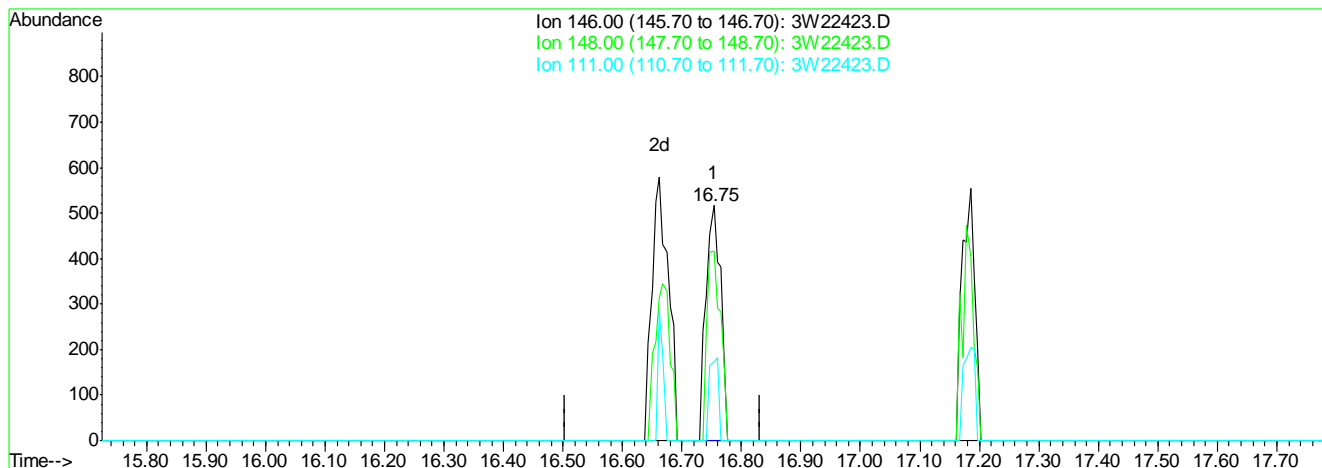
Parameter	CAS	Sig#	R.T. (min.)	Reason
m-Dichlorobenzene	541-73-1		16.66	Missed peak

6.7.7.1
6

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22423.D Vial: 4
Acq On : 13 May 2011 4:38 pm Operator: yunxiac
Sample : ic886-0.1 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 16 12:46 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 12:46:28 2011
Response via : Single Level Calibration



(95) m-DICHLOROBENZENE

16.75min 0.06PPBV

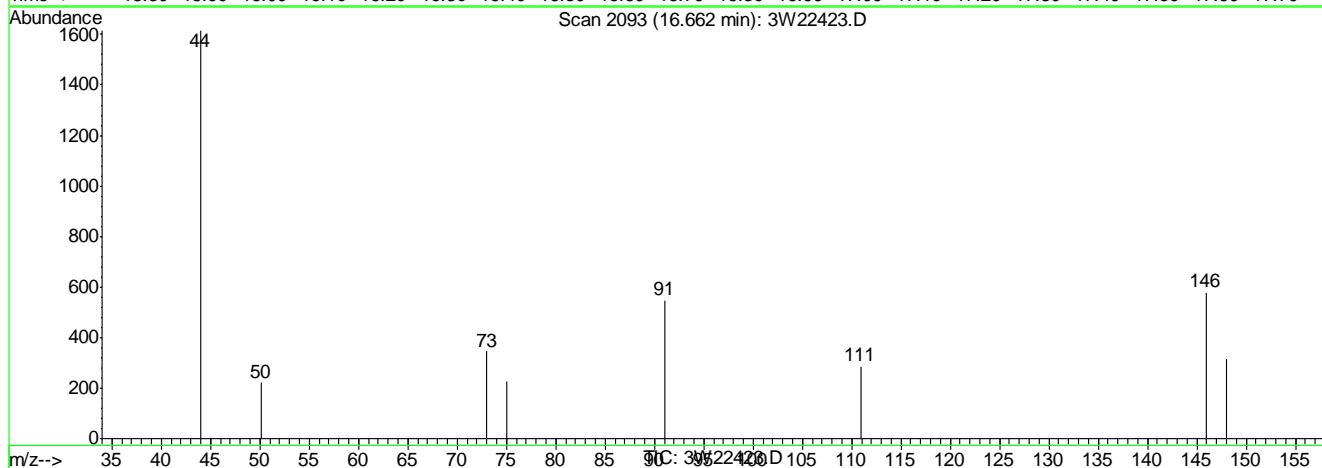
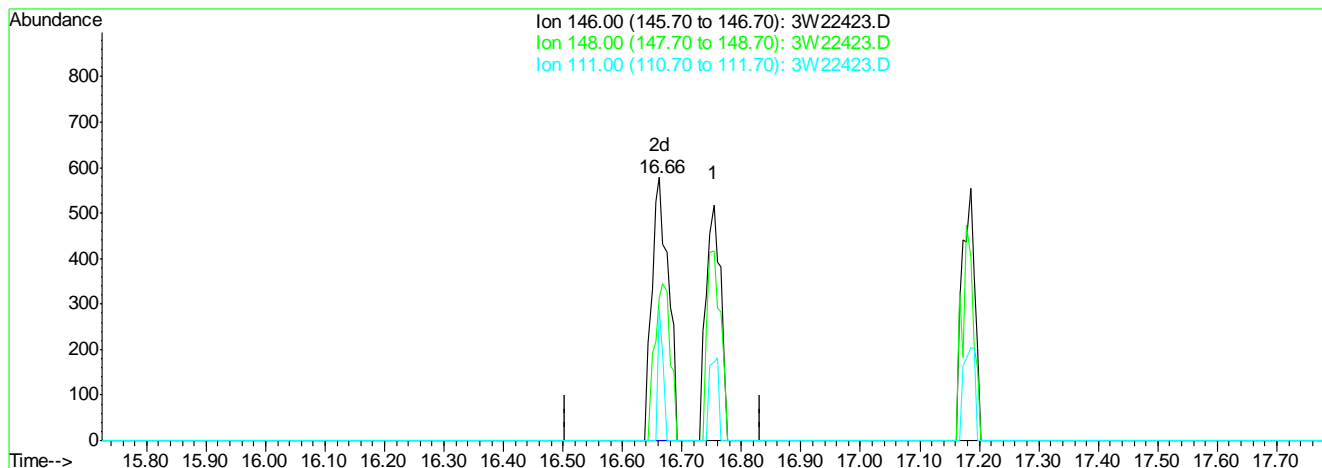
response 903

Ion	Exp%	Act%
146.00	100	100
148.00	65.00	73.31
111.00	38.10	21.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22423.D Vial: 4
Acq On : 13 May 2011 4:38 pm Operator: yunxiac
Sample : ic886-0.1 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 16 16:23 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 12:46:28 2011
Response via : Single Level Calibration



(95) m-DICHLOROBENZENE

16.66min 0.07PPBV m

response 1112

Ion	Exp%	Act%
146.00	100	100
148.00	65.00	59.53
111.00	38.10	17.09#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22424.D
 Acq On : 13 May 2011 5:20 pm
 Sample : ic886-40
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 09:33:20 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 09:33:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.31	128	97922	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.03	114	423926	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.33	82	233680	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.33	82	233680	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.98	95	124662	5.05	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	101.00%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	3.99	67	128802	32.30	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.05	85	1173456	31.94	PPBV	98
6) PROPYLENE	4.00	41	462129	28.36	PPBV	99
7) FREON 114	4.21	85	1298225	32.27	PPBV	98
8) CHLOROMETHANE	4.16	50	527762	32.09	PPBV	98
9) VINYL CHLORIDE	4.29	62	559479	35.76	PPBV	99
10) 1,3-BUTADIENE	4.37	54	422589	35.77	PPBV	99
11) n-BUTANE	4.39	43	843878	28.51	PPBV	99
12) BROMOMETHANE	4.54	94	491205	33.95	PPBV	99
13) CHLOROETHANE	4.64	64	291969	37.77	PPBV	98
14) DICHLOROFLUOROMETHANE	4.70	67	1097313	33.63	PPBV	99
15) ACETONITRILE	4.88	41	474263	42.38	PPBV	97
16) FREON 123	4.93	83	1111413	36.69	PPBV	98
17) FREON 123A	4.97	117	622069	38.52	PPBV	98
18) TRICHLOROFLUOROMETHANE	5.12	101	1133363	33.17	PPBV	98
19) ISOPROPYL ALCOHOL	5.18	45	875367	36.66	PPBV	100
20) ACETONE	5.01	58	227988	39.63	PPBV	98
21) PENTANE	5.32	42	586720	30.37	PPBV	100
22) TVHC as EQUIV PENTANE	5.32	TIC	3596651m	37.55	PPBV	
23) IODOMETHANE	5.51	142	1280249	35.55	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.55	96	470282	35.17	PPBV	97
25) CARBON DISULFIDE	5.86	76	1225771	33.69	PPBV	99
26) ETHANOL	4.73	45	229907	33.79	PPBV	98
27) BROMOETHENE	4.86	106	490610	36.29	PPBV	99
28) ACRYLONITRILE	5.34	52	336481	45.74	PPBV	99
29) METHYLENE CHLORIDE	5.65	84	440970	33.62	PPBV	99
30) 3-CHLOROPROPENE	5.71	76	234333	40.51	PPBV	99
31) FREON 113	5.80	151	770687	34.64	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	474810	38.22	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.57	59	951070	40.31	PPBV	99
34) METHYL TERTIARY BUTYL ETHER	6.47	73	1215029	42.88	PPBV	100
35) TETRAHYDROFURAN	7.73	72	232280	47.24	PPBV	97
36) HEXANE	7.23	57	781484	35.51	PPBV	98
37) VINYL ACETATE	6.58	86	110545	51.12	PPBV #	96
38) 1,1-DICHLOROETHANE	6.47	63	910710	38.39	PPBV	99
39) METHYL ETHYL KETONE	6.76	72	223424	47.19	PPBV #	88
40) cis-1,2-DICHLOROETHYLENE	7.18	96	516435	41.73	PPBV	99
41) DIISOPROPYL ETHER	7.24	45	1551819	42.28	PPBV	98
42) ETHYL ACETATE	7.31	61	151126	48.23	PPBV #	92
43) METHYL ACRYLATE	7.32	55	865804	50.42	PPBV	99

(#) = qualifier out of range (m) = manual integration

3W22424.D M3W886.M Mon May 16 12:42:36 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22424.D
 Acq On : 13 May 2011 5:20 pm
 Sample : ic886-40
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 09:33:20 2011

Vial: 2
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 09:33:09 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CHLOROFORM	7.40	83	982457	38.64	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.99	57	980498	38.55	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.25	97	943704	39.90	PPBV	99
47) CARBON TETRACHLORIDE	8.82	117	1007823	38.43	PPBV	99
48) 1,2-DICHLOROETHANE	8.04	62	627574	43.58	PPBV	100
50) BENZENE	8.69	78	1506046	40.34	PPBV	100
51) CYCLOHEXANE	8.87	69	241982	35.34	PPBV	99
52) 2,3-DIMETHYLPENTANE	9.06	71	350478	33.75	PPBV	94
53) TRICHLOROETHYLENE	9.67	95	637084	39.88	PPBV	99
54) 1,2-DICHLOROPROPANE	9.41	63	599954	42.98	PPBV	100
55) DIBROMOMETHANE	9.44	174	590891	41.61	PPBV	99
56) ETHYL ACRYLATE	9.44	55	1007311	50.66	PPBV	100
57) BROMODICHLOROMETHANE	9.64	83	1027043	41.77	PPBV	98
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	2453976	38.02	PPBV	100
59) 1,4-DIOXANE	9.70	88	290117	46.65	PPBV	98
60) HEPTANE	9.86	43	980243	36.57	PPBV	97
61) TVHC as EQUIV HEPTANE	9.86	TIC	6312229m	42.30	PPBV	
62) METHYL METHACRYLATE	9.87	69	511660	51.31	PPBV #	77
63) METHYL ISOBUTYL KETONE	10.50	58	408612	49.41	PPBV	97
64) cis-1,3-DICHLOROPROPENE	10.52	75	832666	46.31	PPBV	100
65) TOLUENE	11.47	92	1034044	44.13	PPBV	97
66) trans-1,3-DICHLOROPROPENE	11.05	75	850778	51.96	PPBV	99
67) 1,1,2-TRICHLOROETHANE	11.21	83	528262	45.26	PPBV	99
69) 2-HEXANONE	11.72	58	569869	46.34	PPBV	98
70) ETHYL METHACRYLATE	11.76	69	740751	43.13	PPBV	99
71) TETRACHLOROETHYLENE	12.63	164	683341	33.99	PPBV	99
72) DIBROMOCHLOROMETHANE	11.93	129	1080099	39.19	PPBV	99
73) 1,2-DIBROMOETHANE	12.14	107	925543	42.48	PPBV	99
74) OCTANE	12.42	43	1293466	35.21	PPBV	98
75) 1,1,1,2-TETRACHLOROETHANE	13.35	131	730214	39.80	PPBV	100
76) CHLOROBENZENE	13.37	112	1281092	36.96	PPBV	99
77) ETHYLBENZENE	13.75	91	2067187	37.74	PPBV	97
78) m,p-XYLENE	13.94	106	1606334	80.02	PPBV	90
79) o-XYLENE	14.45	106	793188	41.93	PPBV	94
80) STYRENE	14.36	104	1226038	44.44	PPBV	100
81) NONANE	14.65	43	1259219	39.45	PPBV	98
82) BROMOFORM	14.05	173	1022683	44.79	PPBV	99
84) 1,1,2,2-TETRACHLOROETHANE	14.48	83	1064637	43.26	PPBV	98
85) 1,2,3-TRICHLOROPROPANE	14.61	75	877015	43.82	PPBV	99
86) ISOPROPYLBENZENE	15.11	105	2177847	40.96	PPBV	98
87) BROMOBENZENE	15.23	77	1000666	44.03	PPBV	99
88) 2-CHLOROTOLUENE	15.68	126	556964	42.61	PPBV	98
89) n-PROPYLBENZENE	15.71	120	586139	46.02	PPBV	99
90) 4-ETHYLTOLUENE	15.88	105	2017631	47.68	PPBV	97
91) 1,3,5-TRIMETHYLBENZENE	15.98	105	1608134	46.88	PPBV	97
92) ALPHA-METHYLSTYRENE	16.19	118	763278	52.36	PPBV	99
93) tert-BUTYLBENZENE	16.47	134	392287	48.48	PPBV #	89
94) 1,2,4-TRIMETHYLBENZENE	16.48	105	1519819	49.27	PPBV	98
95) m-DICHLOROBENZENE	16.67	146	1039777	45.95	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W22424.D M3W886.M Mon May 16 12:42:36 2011 MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22424.D Vial: 2
Acq On : 13 May 2011 5:20 pm Operator: yunxiac
Sample : ic886-40 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 16 09:33:20 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 09:33:09 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) BENZYL CHLORIDE	16.67	91	1306334	51.40	PPBV	99
97) p-DICHLOROBENZENE	16.76	146	1016666	46.56	PPBV	98
98) sec-BUTYLBENZENE	16.80	134	471581	47.19	PPBV #	86
99) p-ISOPROPYLTOLUENE	16.99	134	494976	48.48	PPBV #	87
100) o-DICHLOROBENZENE	17.19	146	937771	48.02	PPBV	99
101) n-BUTYLBENZENE	17.51	134	423919	51.09	PPBV #	88
102) HEXACHLOROETHANE	17.99	117	633938	43.63	PPBV	99
103) HEXACHLOROBUTADIENE	19.79	225	520986	46.93	PPBV	100
104) 1,2,4-TRICHLOROBENZENE	19.23	180	384378	51.25	PPBV	98
106) NAPHTHALENE	19.37	128	511882	54.48	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W22424.D M3W886.M Mon May 16 12:42:36 2011 MS3W

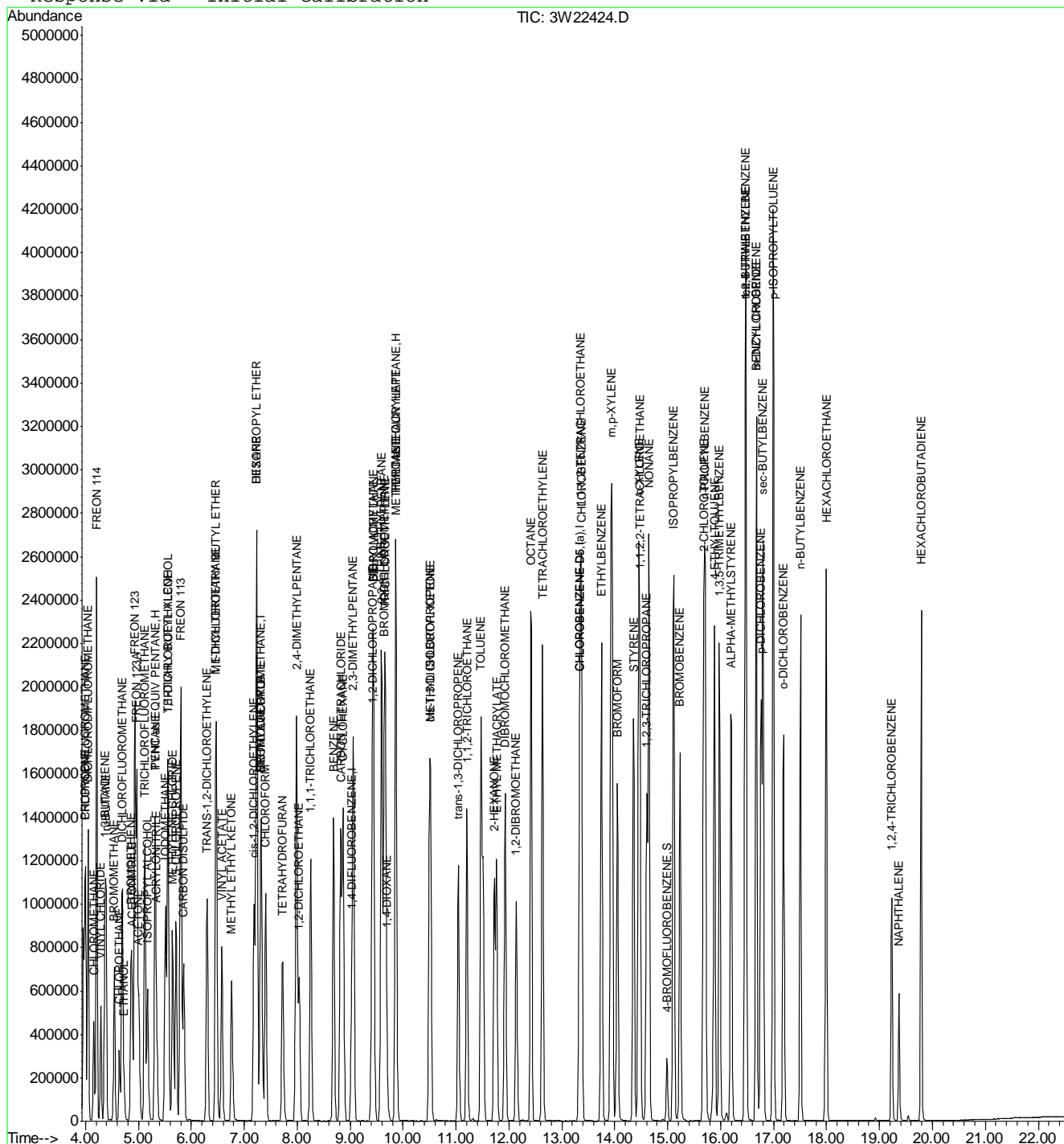
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22424.D
Acq On : 13 May 2011 5:20 pm
Sample : ic886-40
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:12 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 11:05:58 2011
Response via : Initial Calibration



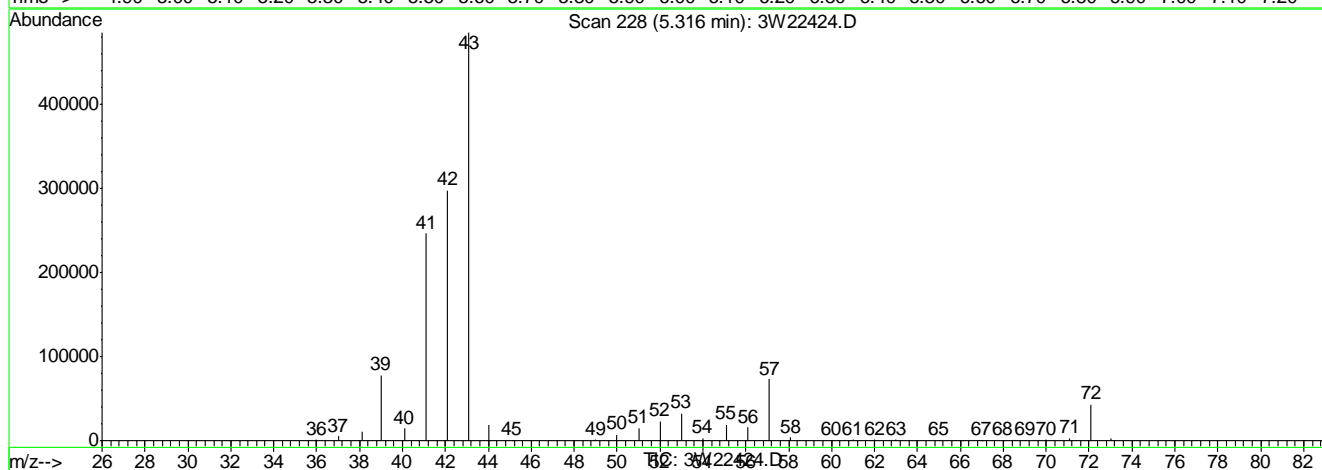
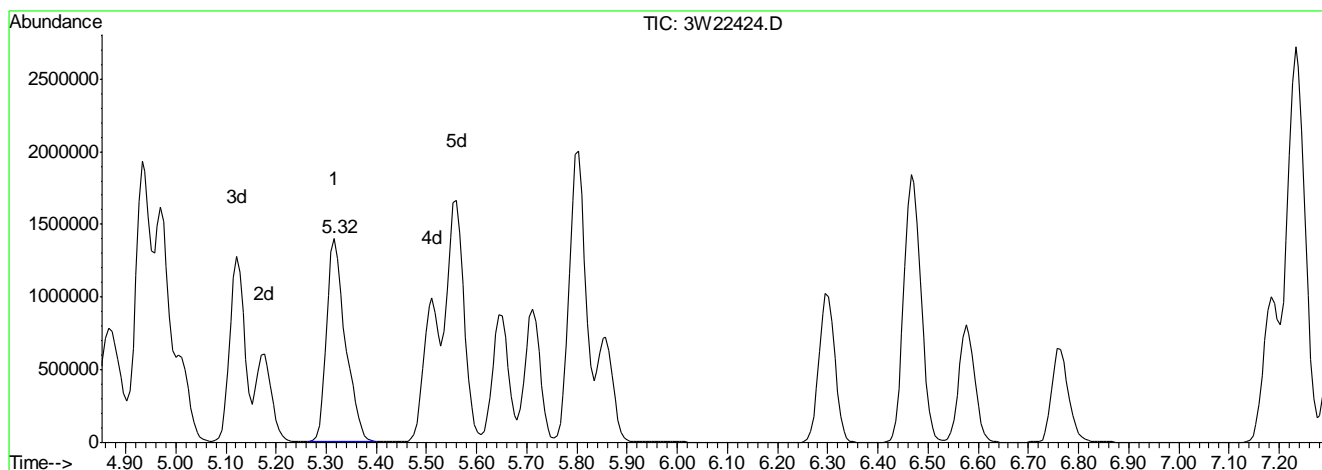
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22424.D
Acq On : 13 May 2011 5:20 pm
Sample : ic886-40
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:12 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 10:55:05 2011
Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.32min 37.55PPBV m

response 3596651

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

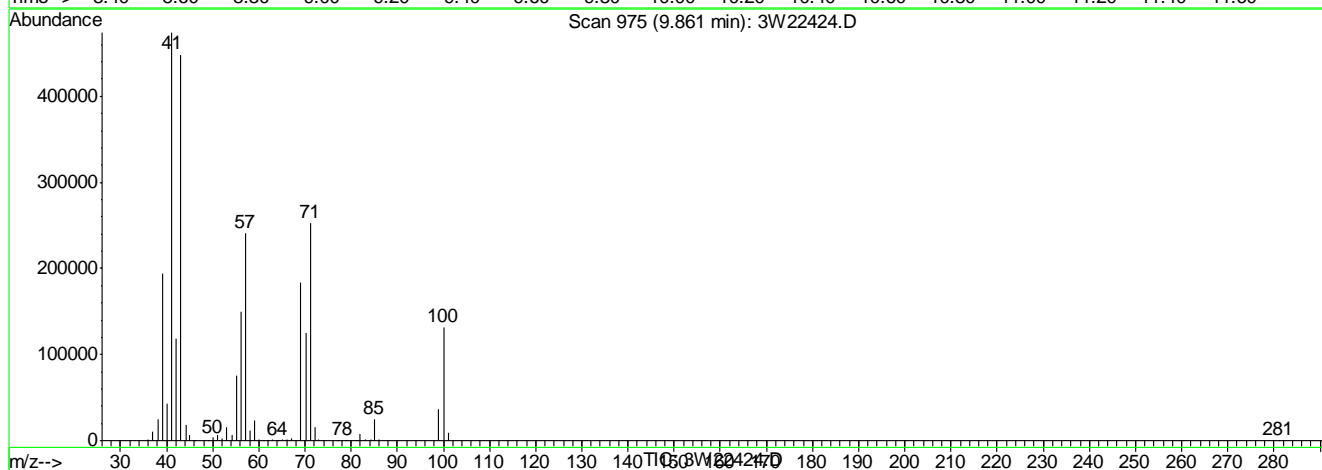
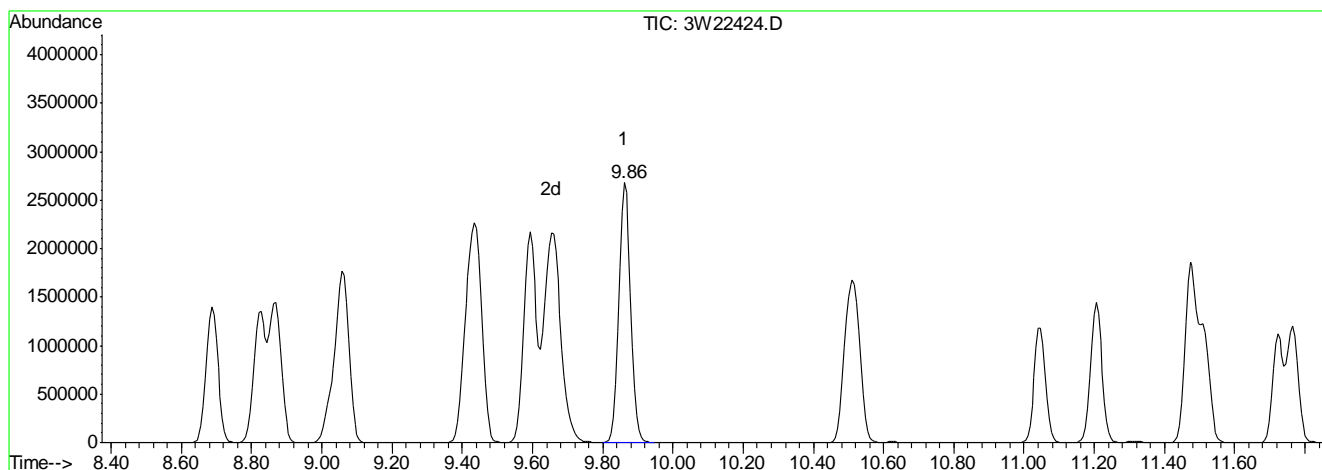
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22424.D
Acq On : 13 May 2011 5:20 pm
Sample : ic886-40
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 10:12 2011

Vial: 2
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 10:55:05 2011
Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.86min 42.30PPBV m

response 6312229

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22425.D
 Acq On : 13 May 2011 7:21 pm
 Sample : ic886-0.5
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 09:41:19 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 09:41:16 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.31	128	91675	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.02	114	382259	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	163378	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	163378	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	14.98	95	82300	4.77	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	95.40%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.00	67	2053	0.55	PPBV	95
5) DICHLORODIFLUOROMETHANE	4.06	85	18324	0.53	PPBV	99
6) PROPYLENE	4.01	41	8551	0.56	PPBV	87
7) FREON 114	4.22	85	20675	0.55	PPBV	98
8) CHLOROMETHANE	4.17	50	7596	0.49	PPBV	96
9) VINYL CHLORIDE	4.30	62	7830	0.53	PPBV	99
10) 1,3-BUTADIENE	4.37	54	5692	0.51	PPBV #	82
11) n-BUTANE	4.40	43	13414	0.48	PPBV	97
12) BROMOMETHANE	4.56	94	7183	0.53	PPBV	95
13) CHLOROETHANE	4.65	64	3751	0.52	PPBV	96
14) DICHLOROFLUOROMETHANE	4.70	67	15784	0.52	PPBV	98
15) ACETONITRILE	4.92	41	5826	0.56	PPBV #	72
16) FREON 123	4.95	83	14367	0.51	PPBV	96
17) FREON 123A	4.98	117	7884	0.52	PPBV	96
18) TRICHLOROFLUOROMETHANE	5.13	101	16426	0.51	PPBV	99
19) ISOPROPYL ALCOHOL	5.23	45	10870	0.49	PPBV	88
20) ACETONE	5.06	58	2570	0.48	PPBV #	58
21) PENTANE	5.32	42	8878	0.49	PPBV	90
22) TVHC as EQUIV PENTANE	5.32	TIC	49374m	0.55	PPBV	
23) IODOMETHANE	5.51	142	17398	0.52	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.55	96	6625	0.53	PPBV	94
25) CARBON DISULFIDE	5.86	76	17463	0.51	PPBV	84
26) ETHANOL	4.77	45	4032	0.63	PPBV	95
27) BROMOETHENE	4.87	106	6457	0.51	PPBV	99
28) ACRYLONITRILE	5.36	52	3228	0.47	PPBV	98
29) METHYLENE CHLORIDE	5.66	84	5882	0.48	PPBV	92
30) 3-CHLOROPROPENE	5.71	76	2439	0.45	PPBV #	65
31) FREON 113	5.80	151	11276	0.54	PPBV	96
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	6015	0.52	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.64	59	10955	0.50	PPBV	67
34) METHYL TERTIARY BUTYL ETHER	6.51	73	13812	0.52	PPBV	94
35) TETRAHYDROFURAN	7.80	72	2204	0.53	PPBV	95
36) HEXANE	7.23	57	10586	0.51	PPBV	91
37) VINYL ACETATE	6.59	86	829	0.41	PPBV #	40
38) 1,1-DICHLOROETHANE	6.47	63	10881	0.49	PPBV	99
39) METHYL ETHYL KETONE	6.81	72	2169	0.49	PPBV	95
40) cis-1,2-DICHLOROETHYLENE	7.18	96	5808	0.50	PPBV	97
41) DIISOPROPYL ETHER	7.26	45	17125	0.50	PPBV	100
42) ETHYL ACETATE	7.35	61	1283	0.30	PPBV #	61
43) METHYL ACRYLATE	7.35	55	7625	0.47	PPBV #	71

(#) = qualifier out of range (m) = manual integration

3W22425.D M3W886.M Mon May 16 12:42:38 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22425.D
 Acq On : 13 May 2011 7:21 pm
 Sample : ic886-0.5
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 09:41:19 2011

Vial: 1
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 09:41:16 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CHLOROFORM	7.40	83	11415	0.48	PPBV	91
45) 2,4-DIMETHYLPENTANE	7.99	57	11842	0.50	PPBV	98
46) 1,1,1-TRICHLOROETHANE	8.25	97	10670	0.48	PPBV	99
47) CARBON TETRACHLORIDE	8.83	117	12638	0.51	PPBV	99
48) 1,2-DICHLOROETHANE	8.04	62	6721	0.50	PPBV	97
50) BENZENE	8.69	78	15403	0.46	PPBV	98
51) CYCLOHEXANE	8.88	69	3510	0.57	PPBV #	86
52) 2,3-DIMETHYLPENTANE	9.06	71	4503	0.48	PPBV #	81
53) TRICHLOROETHYLENE	9.66	95	7177	0.50	PPBV	96
54) 1,2-DICHLOROPROPANE	9.42	63	5810	0.46	PPBV	96
55) DIBROMOMETHANE	9.44	174	5876	0.46	PPBV	97
56) ETHYL ACRYLATE	9.47	55	7197	0.40	PPBV #	95
57) BROMODICHLOROMETHANE	9.64	83	10247	0.46	PPBV	99
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	28496	0.49	PPBV	100
59) 1,4-DIOXANE	9.79	88	2693	0.48	PPBV	95
60) HEPTANE	9.85	43	11681	0.48	PPBV	96
61) TVHC as EQUIV HEPTANE	9.86	TIC	63872m	0.47	PPBV	
62) METHYL METHACRYLATE	9.90	69	3958	0.44	PPBV #	1
63) METHYL ISOBUTYL KETONE	10.55	58	3189	0.43	PPBV	92
64) cis-1,3-DICHLOROPROPENE	10.52	75	7097	0.44	PPBV	95
65) TOLUENE	11.47	92	9099	0.43	PPBV	91
66) trans-1,3-DICHLOROPROPENE	11.05	75	6025	0.41	PPBV	92
67) 1,1,2-TRICHLOROETHANE	11.21	83	5155	0.49	PPBV	96
69) 2-HEXANONE	11.77	58	3797	0.44	PPBV #	80
70) ETHYL METHACRYLATE	11.78	69	4703	0.43	PPBV	88
71) TETRACHLOROETHYLENE	12.63	164	6897	0.49	PPBV	96
72) DIBROMOCHLOROMETHANE	11.92	129	8949	0.46	PPBV	98
73) 1,2-DIBROMOETHANE	12.14	107	6985	0.46	PPBV #	99
74) OCTANE	12.42	43	12326	0.48	PPBV	95
75) 1,1,1,2-TETRACHLOROETHANE	13.35	131	6328	0.49	PPBV	94
76) CHLOROBENZENE	13.36	112	11648	0.48	PPBV	97
77) ETHYLBENZENE	13.74	91	18105	0.47	PPBV	99
78) m,p-XYLENE	13.94	106	13118	0.93	PPBV	94
79) o-XYLENE	14.45	106	6420	0.49	PPBV	98
80) STYRENE	14.34	104	6232	0.34	PPBV	97
81) NONANE	14.64	43	10086	0.45	PPBV	95
82) BROMOFORM	14.05	173	7135	0.45	PPBV	93
84) 1,1,2,2-TETRACHLOROETHANE	14.47	83	7447	0.43	PPBV	99
85) 1,2,3-TRICHLOROPROPANE	14.60	75	6118	0.44	PPBV	95
86) ISOPROPYLBENZENE	15.10	105	17967	0.48	PPBV	100
87) BROMOBENZENE	15.23	77	7055	0.44	PPBV	98
88) 2-CHLOROTOLUENE	15.68	126	3998	0.44	PPBV	91
89) n-PROPYLBENZENE	15.71	120	3472	0.39	PPBV	96
90) 4-ETHYLTOLUENE	15.88	105	12034	0.41	PPBV #	99
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	9625	0.40	PPBV	98
92) ALPHA-METHYLSTYRENE	16.19	118	2955	0.32	PPBV	93
93) tert-BUTYLBENZENE	16.46	134	2304	0.41	PPBV	98
94) 1,2,4-TRIMETHYLBENZENE	16.47	105	8862	0.41	PPBV	96
95) m-DICHLOROBENZENE	16.67	146	6005	0.38	PPBV	96

(#) = qualifier out of range (m) = manual integration

3W22425.D M3W886.M Mon May 16 12:42:38 2011 MS3W

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22425.D Vial: 1
Acq On : 13 May 2011 7:21 pm Operator: yunxiac
Sample : ic886-0.5 Inst : MS3W
Misc : MS12271,V3W886,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 16 09:41:19 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 09:41:16 2011
Response via : Initial Calibration
DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) BENZYL CHLORIDE	16.67	91	7127	0.40	PPBV	95
97) p-DICHLOROBENZENE	16.75	146	6275	0.41	PPBV	97
98) sec-BUTYLBENZENE	16.80	134	2330	0.36	PPBV #	71
99) p-ISOPROPYLTOLUENE	16.99	134	2564	0.40	PPBV	96
100) o-DICHLOROBENZENE	17.18	146	5755	0.42	PPBV	97
101) n-BUTYLBENZENE	17.50	134	1953	0.37	PPBV #	85
102) HEXACHLOROETHANE	17.99	117	3536	0.37	PPBV	95
103) HEXACHLOROBUTADIENE	19.79	225	3174	0.41	PPBV	99
104) 1,2,4-TRICHLOROBENZENE	19.24	180	2245	0.43	PPBV	95
106) NAPHTHALENE	19.38	128	2213	0.37	PPBV #	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W22425.D M3W886.M Mon May 16 12:42:38 2011 MS3W

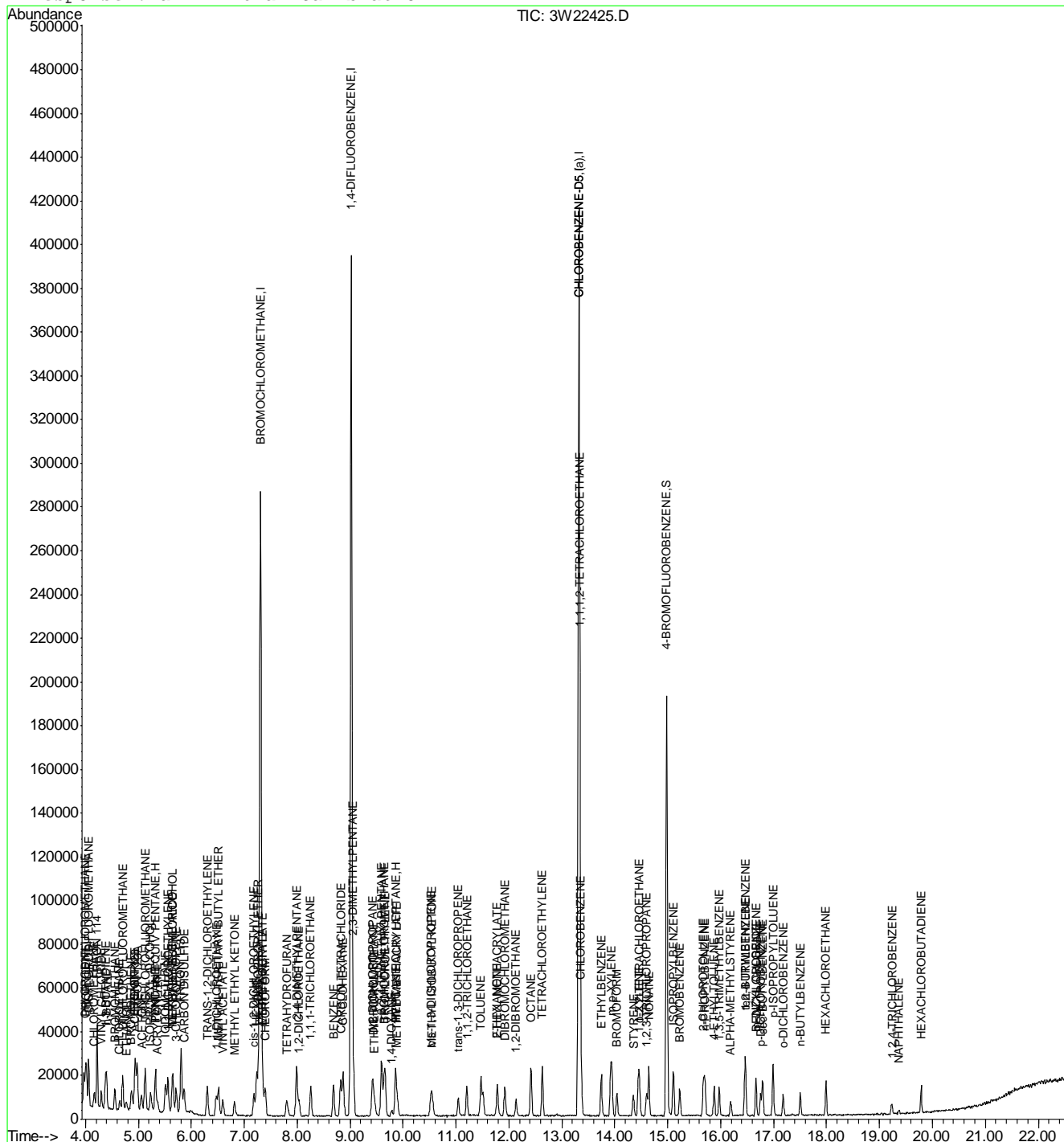
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22425.D
Acq On : 13 May 2011 7:21 pm
Sample : ic886-0.5
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 11:05 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 11:05:58 2011
Response via : Initial Calibration



3W22425.D M3W886.M

Mon May 16 12:42:39 2011

MS 3W

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6.7.9

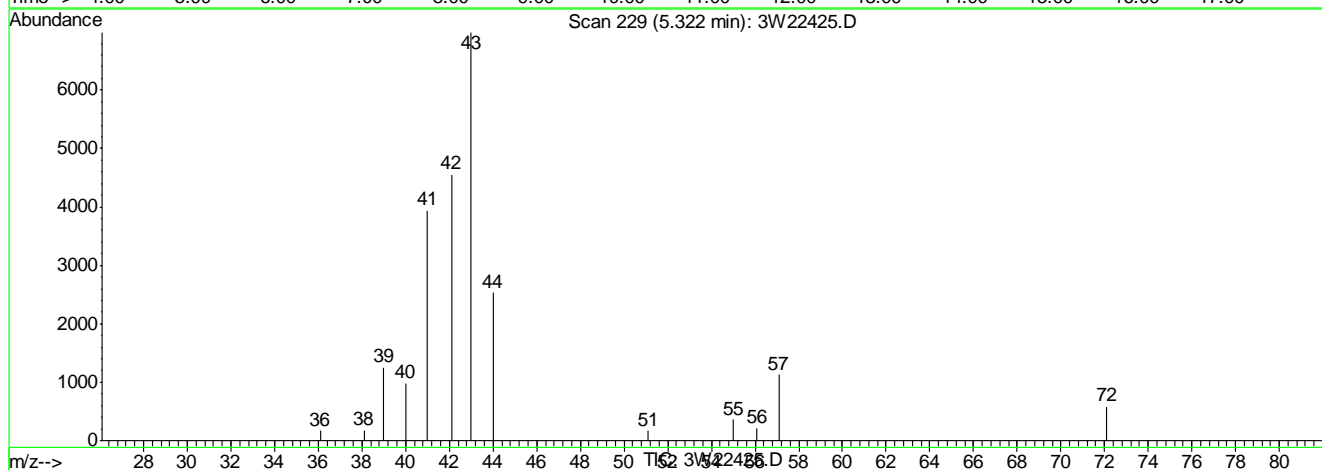
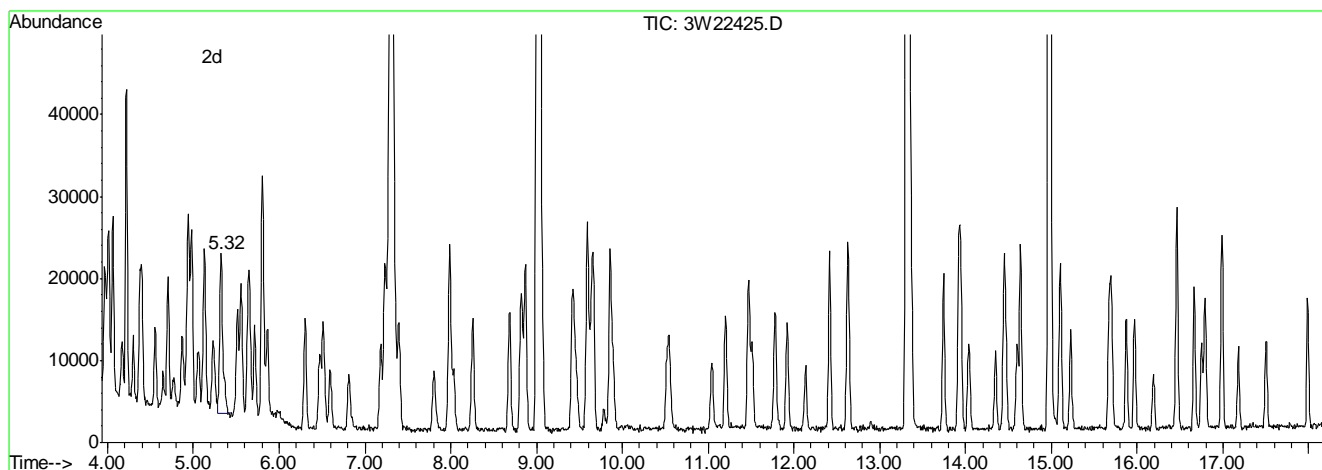
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22425.D
Acq On : 13 May 2011 7:21 pm
Sample : ic886-0.5
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 11:05 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 10:55:05 2011
Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.32min 0.55PPBV m

response 49374

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

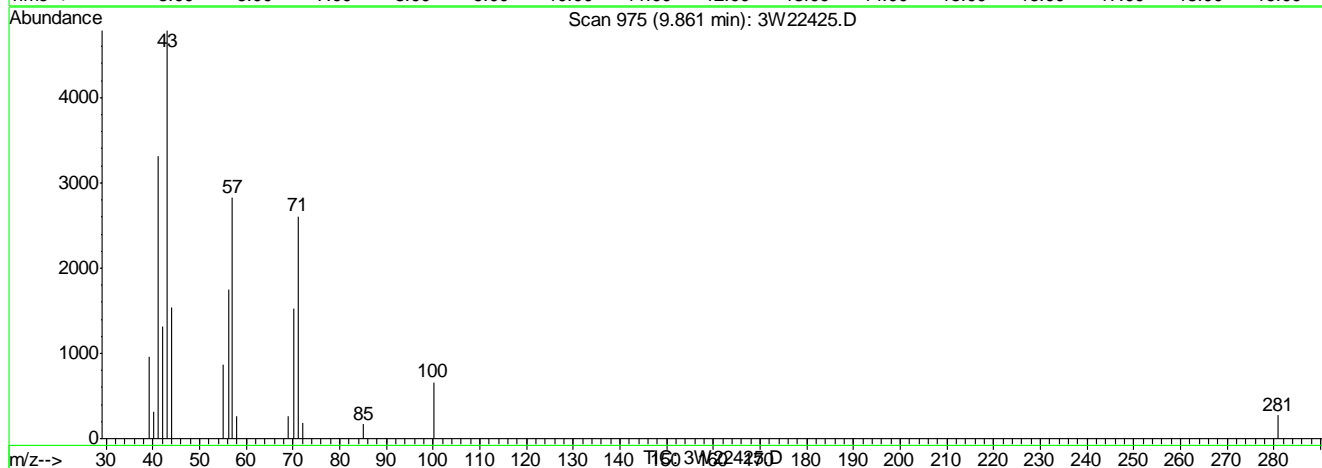
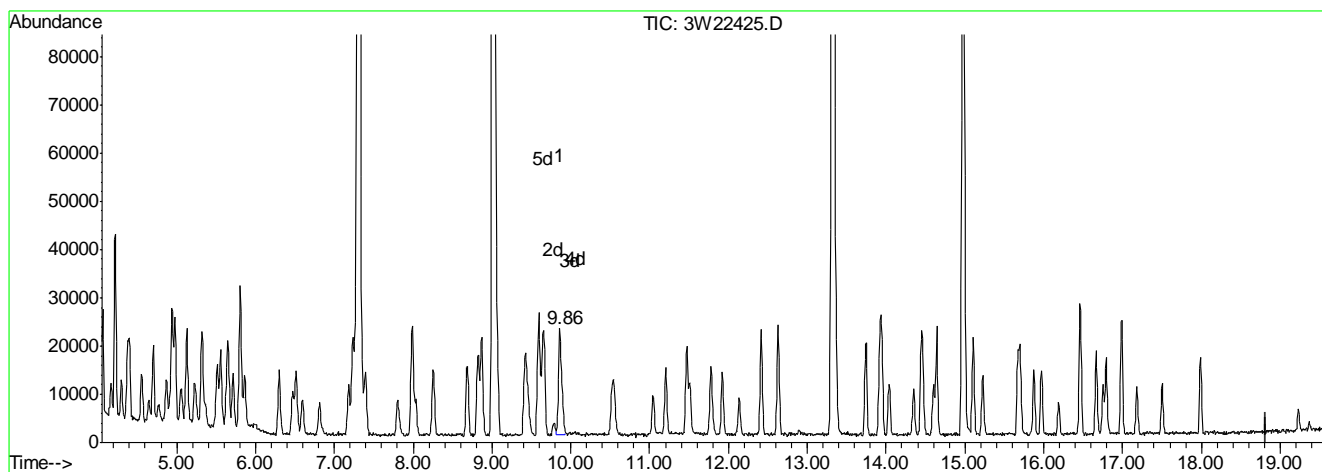
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22425.D
Acq On : 13 May 2011 7:21 pm
Sample : ic886-0.5
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 11:05 2011

Vial: 1
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 10:55:05 2011
Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.86min 0.47PPBV m

response 63872

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22426.D
 Acq On : 14 May 2011 12:01 am
 Sample : icv886-10
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 16:34:44 2011

Vial: 6
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.30	128	98948	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	9.01	114	443274	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.32	82	211323	10.00	PPBV	0.00
105) CHLOROBENZENE-D5 (a)	13.32	82	211323	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE 14.98 95 121597 5.45 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 109.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	3.99	67	35352	8.77	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.05	85	330884	8.91	PPBV	100
6) PROPYLENE	4.00	41	127385	7.74	PPBV	99
7) FREON 114	4.21	85	327708	8.06	PPBV	94
8) CHLOROMETHANE	4.15	50	142603	8.58	PPBV	98
9) VINYL CHLORIDE	4.29	62	147682	9.34	PPBV	98
10) 1,3-BUTADIENE	4.37	54	110706	9.27	PPBV	97
11) n-BUTANE	4.39	43	227579	8.07	PPBV	100
12) BROMOMETHANE	4.54	94	128400	8.78	PPBV	99
13) CHLOROETHANE	4.64	64	76232	9.76	PPBV	99
16) FREON 123	4.93	83	306251	10.01	PPBV	100
17) FREON 123A	4.97	117	164616	10.09	PPBV	100
18) TRICHLOROFLUOROMETHANE	5.12	101	309984	8.98	PPBV	100
19) ISOPROPYL ALCOHOL	5.17	45	200252	8.30	PPBV	99
20) ACETONE	5.01	58	43524	7.49	PPBV	95
21) PENTANE	5.31	42	163060	8.35	PPBV	99
22) TVHC as EQUIV PENTANE	5.31	TIC	728754m	7.55	PPBV	
23) IODOMETHANE	5.50	142	345269	9.49	PPBV	99
24) 1,1-DICHLOROETHYLENE	5.55	96	118057	8.74	PPBV	99
25) CARBON DISULFIDE	5.85	76	353690	9.62	PPBV	99
26) ETHANOL	4.72	45	51403	7.48	PPBV	99
27) BROMOETHENE	4.86	106	127855	9.36	PPBV	99
29) METHYLENE CHLORIDE	5.64	84	113203	8.07	PPBV	98
30) 3-CHLOROPROPENE	5.71	76	58585	10.02	PPBV	98
31) FREON 113	5.80	151	195536	8.70	PPBV	100
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	125629	10.01	PPBV	99
33) TERTIARY BUTYL ALCOHOL	5.56	59	232805	9.76	PPBV	98
34) METHYL TERTIARY BUTYL ETHER	6.47	73	230761	8.06	PPBV	99
35) TETRAHYDROFURAN	7.73	72	42218	8.50	PPBV	98
36) HEXANE	7.23	57	208942	9.39	PPBV	99
37) VINYL ACETATE	6.57	86	19446	8.90	PPBV #	93
38) 1,1-DICHLOROETHANE	6.47	63	228354	9.52	PPBV	100
39) METHYL ETHYL KETONE	6.76	72	42902	8.97	PPBV	96
40) cis-1,2-DICHLOROETHYLENE	7.18	96	126044	10.08	PPBV	100
41) DIISOPROPYL ETHER	7.24	45	312749	8.43	PPBV	100
42) ETHYL ACETATE	7.31	61	28561	9.02	PPBV	95
44) CHLOROFORM	7.39	83	250901	9.77	PPBV	100
45) 2,4-DIMETHYLPENTANE	7.98	57	260890	10.15	PPBV	100
46) 1,1,1-TRICHLOROETHANE	8.25	97	234680	9.82	PPBV	99
47) CARBON TETRACHLORIDE	8.82	117	257856	9.73	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W22426.D M3W886.M

Mon May 16 16:41:52 2011

MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22426.D
 Acq On : 14 May 2011 12:01 am
 Sample : icv886-10
 Misc : MS12271,V3W886,,,,,1
 MS Integration Params: rteint.p
 Quant Time: May 16 16:34:44 2011

Vial: 6
 Operator: yunxiac
 Inst : MS3W
 Multiplr: 1.00

Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) 1,2-DICHLOROETHANE	8.03	62	146845	9.68	PPBV	100
50) BENZENE	8.68	78	356714	9.14	PPBV	100
51) CYCLOHEXANE	8.86	69	62250	8.70	PPBV	97
52) 2,3-DIMETHYLPENTANE	9.06	71	90667	8.78	PPBV	98
53) TRICHLOROETHYLENE	9.66	95	157876	9.45	PPBV	99
54) 1,2-DICHLOROPROPANE	9.41	63	135292	9.27	PPBV	99
57) BROMODICHLOROMETHANE	9.64	83	243820	9.48	PPBV	100
58) 2,2,4-TRIMETHYLPENTANE	9.59	57	629495	9.33	PPBV	100
59) 1,4-DIOXANE	9.70	88	62118	9.55	PPBV	97
60) HEPTANE	9.85	43	259094	9.24	PPBV	99
61) TVHC as EQUIV HEPTANE	9.86	TIC	1453291m	8.92	PPBV	
62) METHYL METHACRYLATE	9.87	69	88352	8.47	PPBV #	91
63) METHYL ISOBUTYL KETONE	10.50	58	85255	9.86	PPBV	98
64) cis-1,3-DICHLOROPROPENE	10.52	75	183877	9.43	PPBV	99
65) TOLUENE	11.47	92	224953	9.18	PPBV	99
66) trans-1,3-DICHLOROPROPENE	11.04	75	174552	9.38	PPBV	99
67) 1,1,2-TRICHLOROETHANE	11.20	83	114372	9.37	PPBV	99
69) 2-HEXANONE	11.72	58	101993	9.17	PPBV	95
71) TETRACHLOROETHYLENE	12.63	164	162957	8.96	PPBV	99
72) DIBROMOCHLOROMETHANE	11.92	129	228280	9.16	PPBV	100
73) 1,2-DIBROMOETHANE	12.13	107	192112	9.75	PPBV	100
74) OCTANE	12.42	43	310017	9.33	PPBV	99
75) 1,1,1,2-TETRACHLOROETHANE	13.34	131	154640	9.32	PPBV	99
76) CHLOROBENZENE	13.36	112	276998	8.84	PPBV	99
77) ETHYLBENZENE	13.74	91	421608	8.51	PPBV	100
78) m,p-XYLENE	13.93	106	301147	16.59	PPBV	98
79) o-XYLENE	14.45	106	143033	8.36	PPBV	98
80) STYRENE	14.35	104	216068	8.66	PPBV	99
81) NONANE	14.64	43	282628	9.79	PPBV	99
82) BROMOFORM	14.04	173	200983	9.34	PPBV	100
84) 1,1,2,2-TETRACHLOROETHANE	14.47	83	198315	8.91	PPBV	100
85) 1,2,3-TRICHLOROPROPANE	14.60	75	153397	8.47	PPBV	99
86) ISOPROPYLBENZENE	15.10	105	398518	8.29	PPBV	100
88) 2-CHLOROTOLUENE	15.67	126	105430	8.92	PPBV	99
89) n-PROPYLBENZENE	15.70	120	99258	8.12	PPBV	100
90) 4-ETHYLTOLUENE	15.87	105	346071	9.04	PPBV	100
91) 1,3,5-TRIMETHYLBENZENE	15.97	105	278987	8.99	PPBV	99
93) tert-BUTYLBENZENE	16.46	134	65179	8.91	PPBV	99
94) 1,2,4-TRIMETHYLBENZENE	16.47	105	267237	9.58	PPBV	99
95) m-DICHLOROBENZENE	16.67	146	190421	9.17	PPBV	100
96) BENZYL CHLORIDE	16.67	91	212342	9.24	PPBV	99
97) p-DICHLOROBENZENE	16.75	146	185765	9.41	PPBV	100
98) sec-BUTYLBENZENE	16.79	134	76802	8.50	PPBV	97
99) p-ISOPROPYLTOLUENE	16.98	134	82468	8.93	PPBV	97
100) o-DICHLOROBENZENE	17.18	146	165204	9.35	PPBV	99
101) n-BUTYLBENZENE	17.50	134	69041	9.20	PPBV	97
103) HEXACHLOROBUTADIENE	19.79	225	86132	8.58	PPBV	99
104) 1,2,4-TRICHLOROBENZENE	19.23	180	55521	8.19	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W22426.D M3W886.M Mon May 16 16:41:52 2011 MS3W

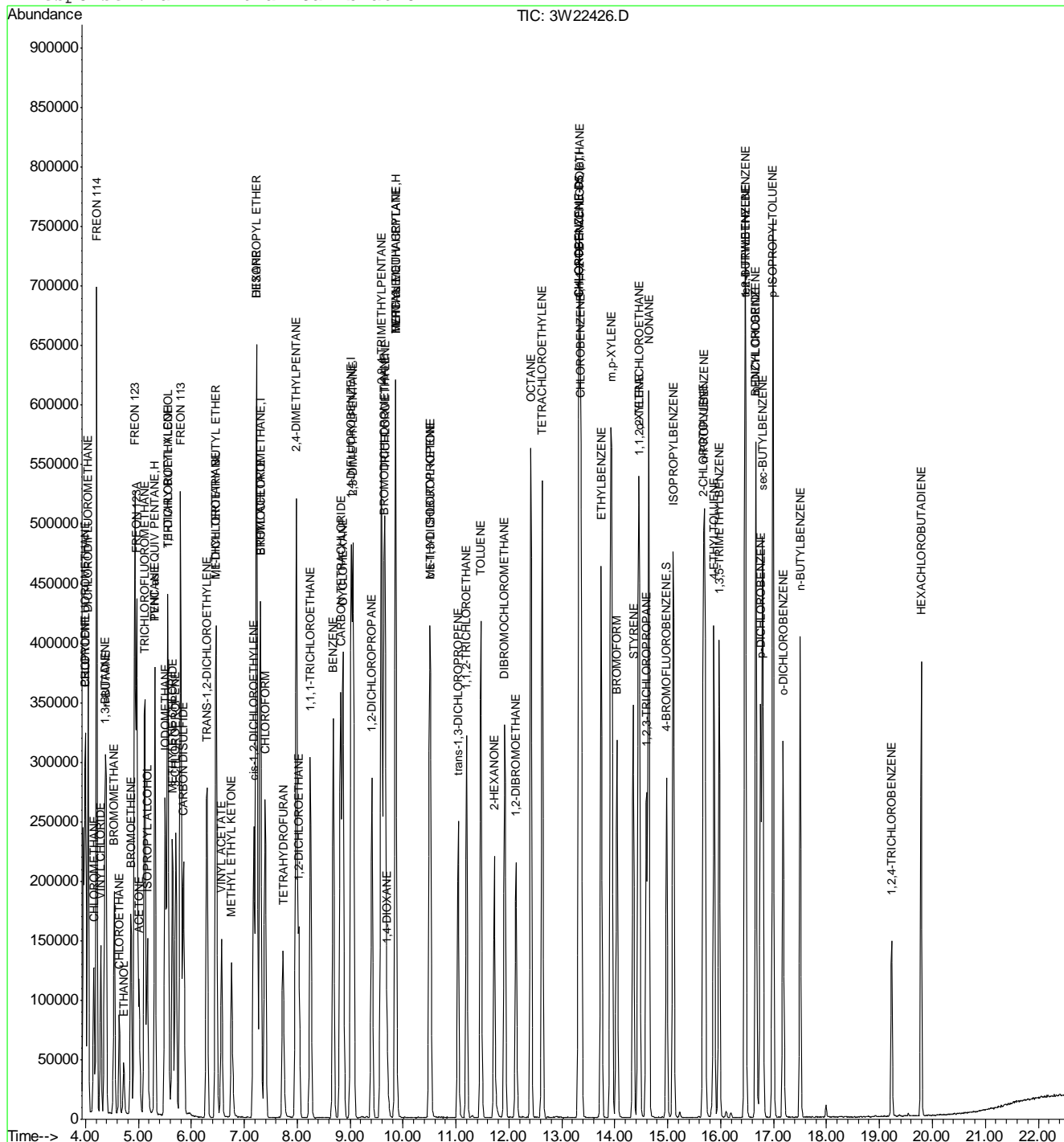
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W22426.D
Acq On : 14 May 2011 12:01 am
Sample : icv886-10
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 16:41 2011

Vial: 6
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: M3W886.RES

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration



6.7.10

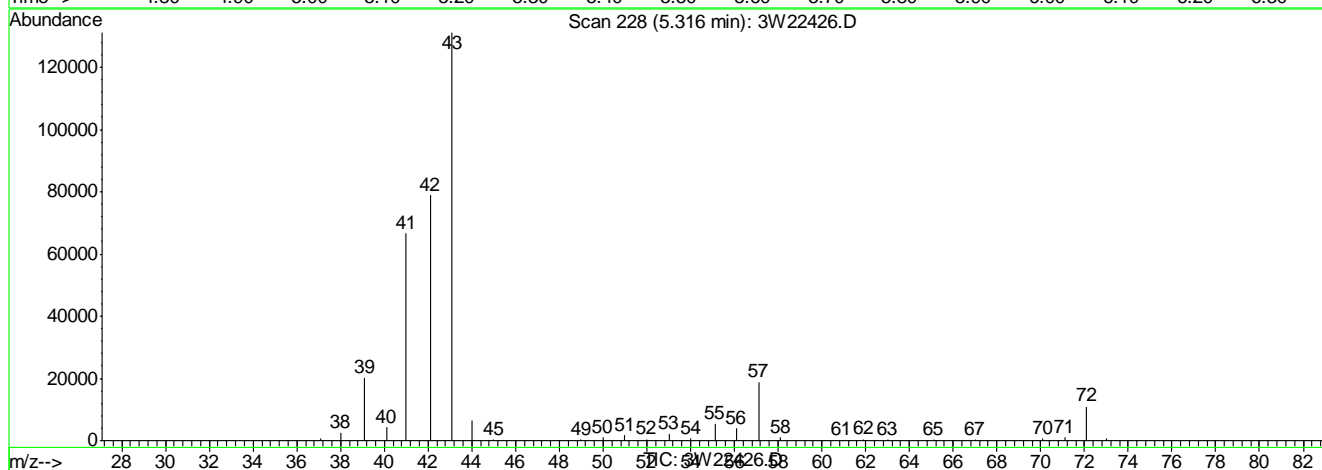
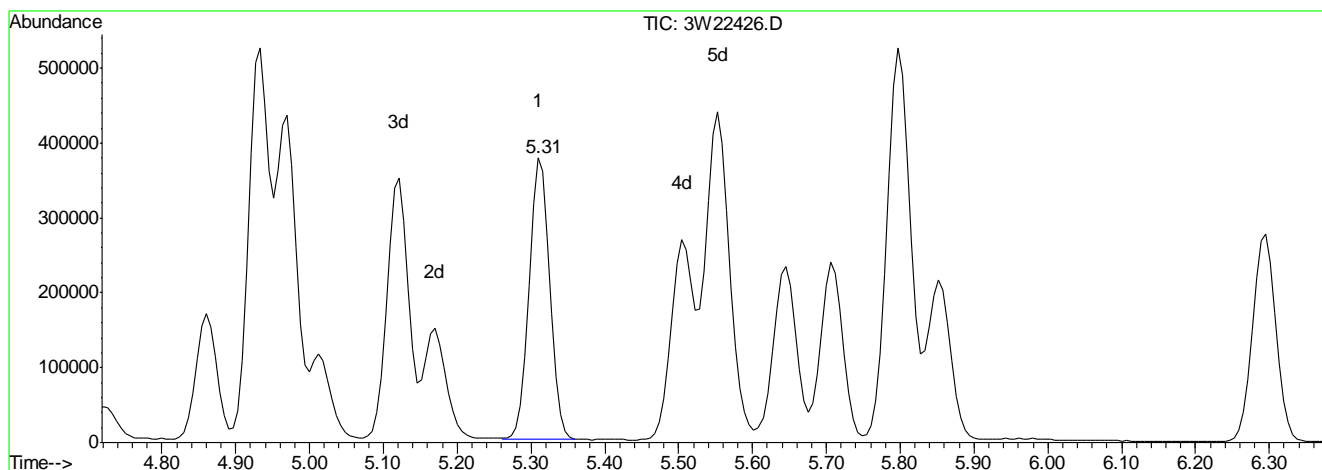
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22426.D
Acq On : 14 May 2011 12:01 am
Sample : icv886-10
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 16:39 2011

Vial: 6
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.31min 7.55PPBV m

response 728754

Signal	Exp%	Act%
TIC	100	100
0.00	1.20	0.00
0.00	1.00	0.00
0.00	0.00	0.00

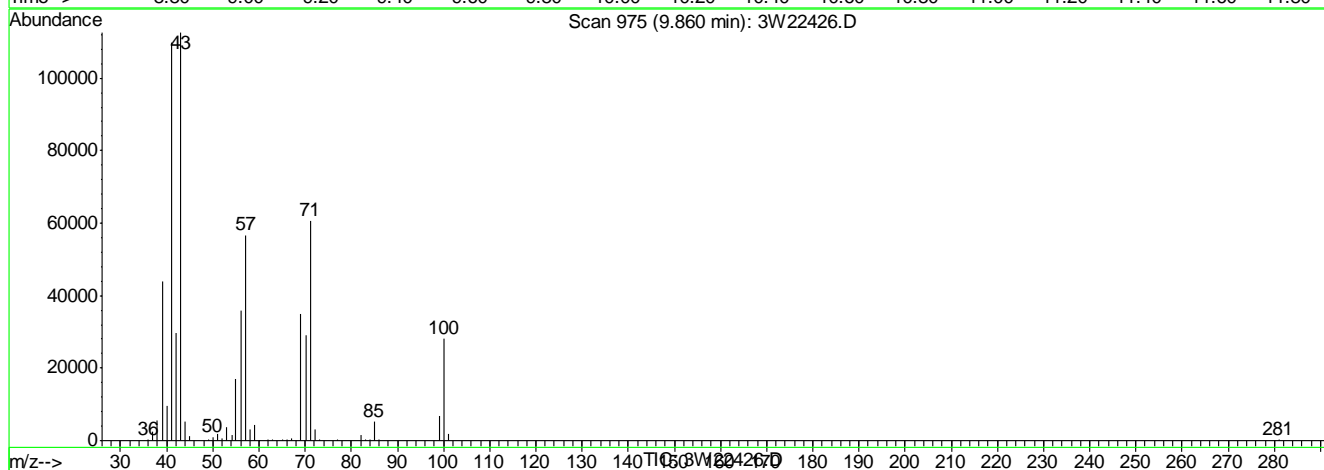
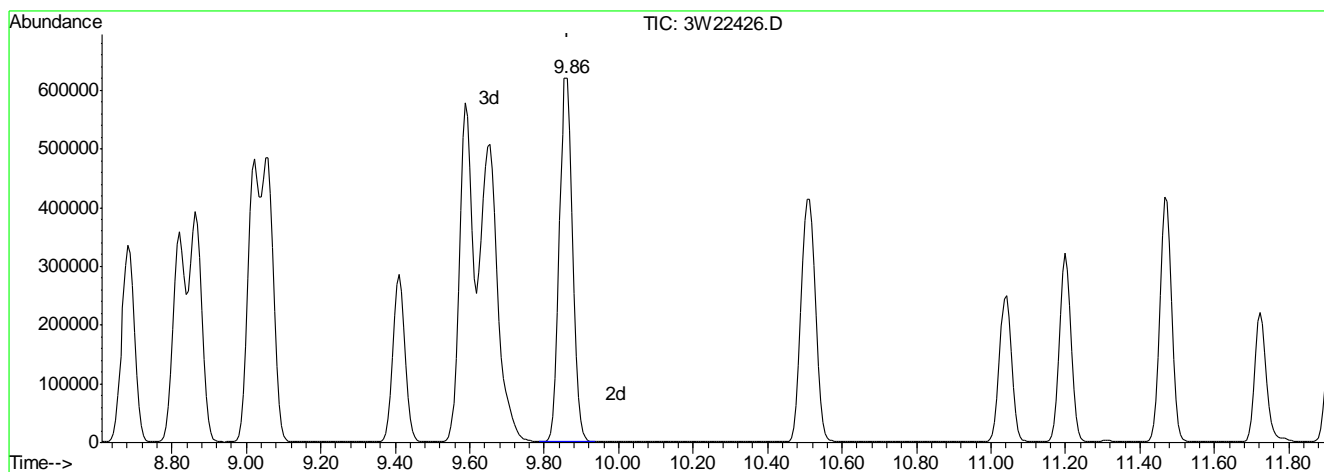
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W22426.D
Acq On : 14 May 2011 12:01 am
Sample : icv886-10
Misc : MS12271,V3W886,,,,,1
MS Integration Params: rteint.p
Quant Time: May 16 16:41 2011

Vial: 6
Operator: yunxiac
Inst : MS3W
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.86min 8.92PPBV m

response 1453291

Signal	Exp%	Act%
TIC	100	100
0.00	0.80	0.00
0.00	0.70	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23018.D Vial: 2
 Acq On : 24 Jun 2011 9:27 am Operator: yunxiac
 Sample : CC886-10 Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 08:49:34 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.31	128	102842	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	9.02	114	446279	10.00	PPBV	0.00
68) CHLOROBENZENE-D5	13.31	82	217987	10.00	PPBV	-0.02
105) CHLOROBENZENE-D5 (a)	13.31	82	217987	10.00	PPBV	-0.02

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE 14.96 95 112994 4.91 PPBV -0.02
 Spiked Amount 5.000 Range 65 - 128 Recovery = 98.20%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.02	67	35555	8.49	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.08	85	312162	8.09	PPBV	99
6) PROPYLENE	4.03	41	146593	8.57	PPBV	98
7) FREON 114	4.24	85	340648	8.06	PPBV	96
8) CHLOROMETHANE	4.18	50	151416	8.77	PPBV	98
9) VINYL CHLORIDE	4.32	62	146322	8.91	PPBV	99
10) 1,3-BUTADIENE	4.39	54	114418	9.22	PPBV	93
11) n-BUTANE	4.41	43	245829	8.39	PPBV	99
12) BROMOMETHANE	4.56	94	122509	8.06	PPBV	98
13) CHLOROETHANE	4.66	64	76741	9.45	PPBV	99
14) DICHLOROFLUOROMETHANE	4.72	67	300178	8.76	PPBV	99
15) ACETONITRILE	4.91	41	132094	9.75	PPBV	99
16) FREON 123	4.95	83	296334	9.32	PPBV	99
17) FREON 123A	4.99	117	155982	9.20	PPBV	91
18) TRICHLOROFLUOROMETHANE	5.14	101	299835	8.35	PPBV	100
19) ISOPROPYL ALCOHOL	5.19	45	236459	9.43	PPBV	100
20) ACETONE	5.03	58	55368	9.16	PPBV	91
21) PENTANE	5.33	42	173660	8.56	PPBV	99
22) TVHC as EQUIV PENTANE	5.33	TIC	1027239m	10.24	PPBV	
23) IODOMETHANE	5.53	142	318384	8.42	PPBV	97
24) 1,1-DICHLOROETHYLENE	5.57	96	120095	8.55	PPBV	92
25) CARBON DISULFIDE	5.87	76	329570	8.63	PPBV	98
26) ETHANOL	4.75	45	61365	8.59	PPBV	99
27) BROMOETHENE	4.88	106	121968	8.59	PPBV	100
28) ACRYLONITRILE	5.36	52	91630	11.86	PPBV	98
29) METHYLENE CHLORIDE	5.66	84	115168	7.90	PPBV	90
30) 3-CHLOROPROPENE	5.73	76	62071	10.22	PPBV #	87
31) FREON 113	5.82	151	189093	8.09	PPBV	95
32) TRANS-1,2-DICHLOROETHYLENE	6.30	96	119614	9.17	PPBV	96
33) TERTIARY BUTYL ALCOHOL	5.57	59	258255	10.42	PPBV	98
34) METHYL TERTIARY BUTYL ETHER	6.48	73	280676	9.43	PPBV	96
35) TETRAHYDROFURAN	7.73	72	53096	10.28	PPBV #	90
36) HEXANE	7.24	57	219105	9.48	PPBV	96
37) VINYL ACETATE	6.58	86	27474	12.10	PPBV #	76
38) 1,1-DICHLOROETHANE	6.47	63	255826	10.27	PPBV	99
39) METHYL ETHYL KETONE	6.77	72	47230	9.50	PPBV #	84
40) cis-1,2-DICHLOROETHYLENE	7.19	96	131771	10.14	PPBV	93
41) DIISOPROPYL ETHER	7.24	45	403627	10.47	PPBV	99
42) ETHYL ACETATE	7.31	61	34224	10.40	PPBV #	85
43) METHYL ACRYLATE	7.33	55	211735	11.74	PPBV	98

(#) = qualifier out of range (m) = manual integration

3W23018.D M3W886.M Tue Aug 16 09:03:23 2011 MS3W

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23018.D Vial: 2
 Acq On : 24 Jun 2011 9:27 am Operator: yunxiac
 Sample : CC886-10 Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 08:49:34 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) CHLOROFORM	7.40	83	263164	9.86	PPBV	99
45) 2,4-DIMETHYLPENTANE	7.98	57	272861	10.21	PPBV	99
46) 1,1,1-TRICHLOROETHANE	8.26	97	246300	9.92	PPBV	98
47) CARBON TETRACHLORIDE	8.82	117	258423	9.38	PPBV	100
48) 1,2-DICHLOROETHANE	8.03	62	167160	10.60	PPBV	99
50) BENZENE	8.68	78	400324	10.19	PPBV	99
51) CYCLOHEXANE	8.87	69	63139	8.76	PPBV	95
52) 2,3-DIMETHYLPENTANE	9.05	71	92646	8.91	PPBV	93
53) TRICHLOROETHYLENE	9.66	95	162994	9.69	PPBV	97
54) 1,2-DICHLOROPROPANE	9.41	63	167934	11.43	PPBV	97
55) DIBROMOMETHANE	9.43	174	139365	9.32	PPBV	94
56) ETHYL ACRYLATE	9.43	55	236212	11.99	PPBV	98
57) BROMODICHLOROMETHANE	9.63	83	273300	10.56	PPBV	100
58) 2,2,4-TRIMETHYLPENTANE	9.58	57	710412	10.45	PPBV	100
59) 1,4-DIOXANE	9.69	88	67658	10.33	PPBV	95
60) HEPTANE	9.85	43	302395	10.72	PPBV	94
61) TVHC as EQUIV HEPTANE	9.85	TIC	1687683m	10.29	PPBV	
62) METHYL METHACRYLATE	9.86	69	112351	10.70	PPBV	93
63) METHYL ISOBUTYL KETONE	10.49	58	98193	11.28	PPBV #	90
64) cis-1,3-DICHLOROPROPENE	10.51	75	216618	11.04	PPBV	97
65) TOLUENE	11.46	92	258732	10.49	PPBV	99
66) trans-1,3-DICHLOROPROPENE	11.03	75	210094	11.21	PPBV	98
67) 1,1,2-TRICHLOROETHANE	11.19	83	135974	11.07	PPBV	96
69) 2-HEXANONE	11.71	58	131591	11.47	PPBV	89
70) ETHYL METHACRYLATE	11.75	69	164450	10.26	PPBV	91
71) TETRACHLOROETHYLENE	12.61	164	161152	8.59	PPBV	99
72) DIBROMOCHLOROMETHANE	11.91	129	255824	9.95	PPBV	99
73) 1,2-DIBROMOETHANE	12.12	107	216009	10.63	PPBV	100
74) OCTANE	12.40	43	389676	11.37	PPBV	93
75) 1,1,1,2-TETRACHLOROETHANE	13.32	131	171540	10.02	PPBV	97
76) CHLOROBENZENE	13.35	112	304922	9.43	PPBV	98
77) ETHYLBENZENE	13.73	91	510456	9.99	PPBV	100
78) m,p-XYLENE	13.91	106	374899	20.02	PPBV	97
79) o-XYLENE	14.43	106	182021	10.31	PPBV	98
80) STYRENE	14.33	104	262677	10.21	PPBV	99
81) NONANE	14.63	43	375543	12.61	PPBV	95
82) BROMOFORM	14.02	173	218944	9.86	PPBV	100
84) 1,1,2,2-TETRACHLOROETHANE	14.45	83	254617	11.09	PPBV	100
85) 1,2,3-TRICHLOROPROPANE	14.58	75	199181	10.67	PPBV	98
86) ISOPROPYLBENZENE	15.09	105	510572	10.29	PPBV	99
87) BROMOBENZENE	15.20	77	232644	9.94	PPBV	94
88) 2-CHLOROTOLUENE	15.65	126	123948	10.16	PPBV	100
89) n-PROPYLBENZENE	15.69	120	126349	10.02	PPBV	99
90) 4-ETHYLTOLUENE	15.86	105	439218	11.13	PPBV	99
91) 1,3,5-TRIMETHYLBENZENE	15.95	105	343689	10.74	PPBV	99
92) ALPHA-METHYLSTYRENE	16.17	118	147392	10.84	PPBV	99
93) tert-BUTYLBENZENE	16.44	134	77820	10.31	PPBV	99
94) 1,2,4-TRIMETHYLBENZENE	16.45	105	320725	11.15	PPBV	99
95) m-DICHLOROBENZENE	16.65	146	215530	10.06	PPBV	100

(#) = qualifier out of range (m) = manual integration

3W23018.D M3W886.M Tue Aug 16 09:03:23 2011 MS3W

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23018.D Vial: 2
 Acq On : 24 Jun 2011 9:27 am Operator: yunxiac
 Sample : CC886-10 Inst : MS3W
 Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 08:49:34 2011 Quant Results File: M3W886.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon May 16 16:34:23 2011
 Response via : Initial Calibration
 DataAcq Meth : TO153W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) BENZYL CHLORIDE	16.65	91	250490	10.57	PPBV	98
97) p-DICHLOROBENZENE	16.73	146	204435	10.04	PPBV	99
98) sec-BUTYLBENZENE	16.77	134	91640	9.83	PPBV #	92
99) p-ISOPROPYLTOLUENE	16.97	134	91872	9.65	PPBV	98
100) o-DICHLOROBENZENE	17.16	146	190099	10.43	PPBV	99
101) n-BUTYLBENZENE	17.49	134	74322	9.60	PPBV #	88
102) HEXACHLOROETHANE	17.97	117	142682	10.53	PPBV	96
103) HEXACHLOROBUTADIENE	19.77	225	108159	10.44	PPBV	100
104) 1,2,4-TRICHLOROBENZENE	19.21	180	63232	9.04	PPBV	98
106) NAPHTHALENE	19.35	128	87896	10.03	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 3W23018.D M3W886.M Tue Aug 16 09:03:23 2011 MS3W

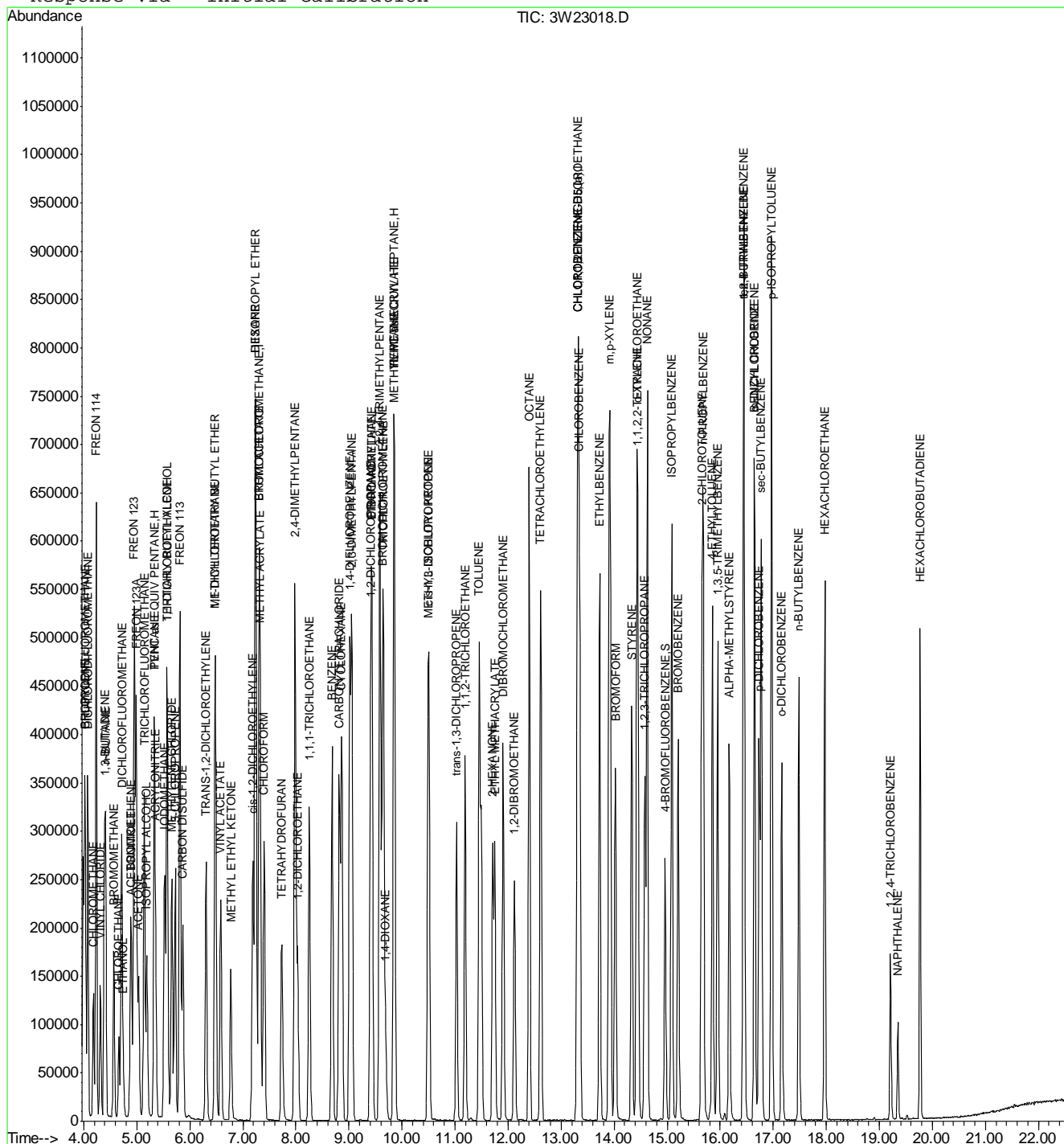
Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23018.D Vial: 2
Acq On    : 24 Jun 2011    9:27 am                      Operator: yunxiac
Sample    : CC886-10                               Inst   : MS3W
Misc      : MS14246,V3W910,,,,,1                     Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30    1:38 2011                      Quant Results File: M3W886.RES

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Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Initial Calibration

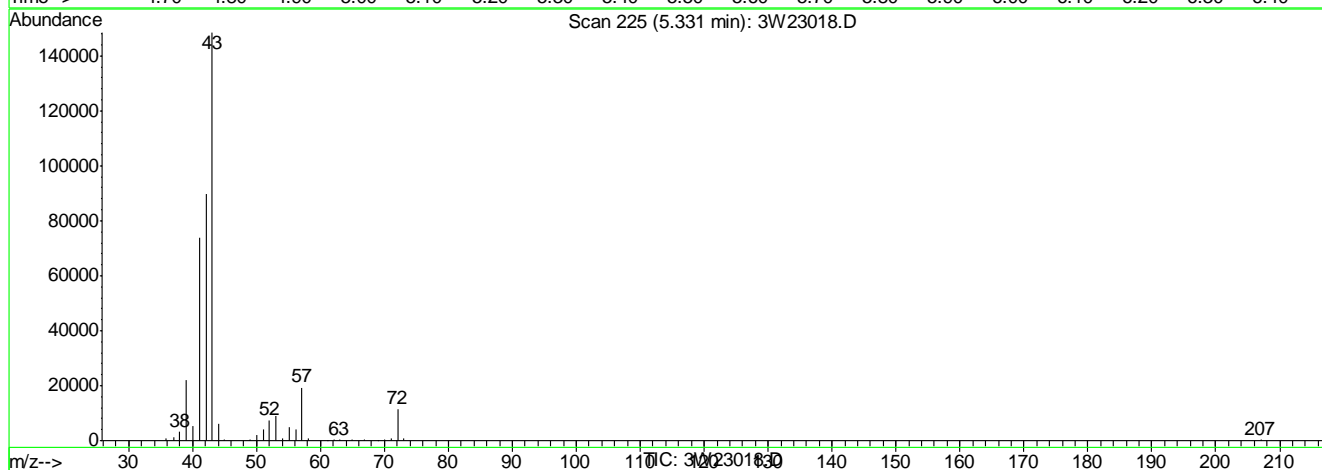
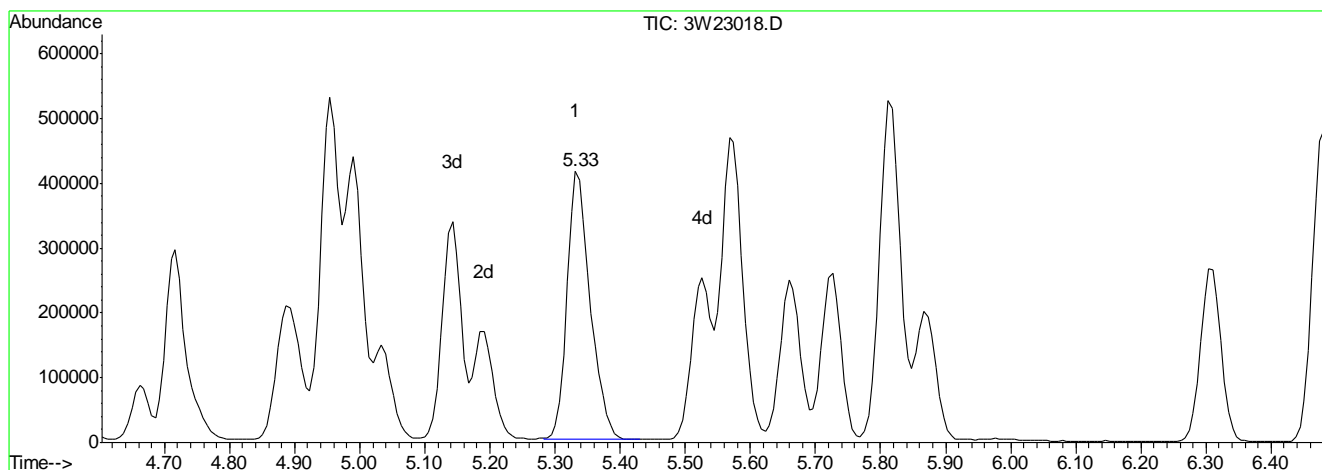


6.7.11

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23018.D Vial: 2
Acq On : 24 Jun 2011 9:27 am Operator: yunxiac
Sample : CC886-10 Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 1:38 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Multiple Level Calibration



(22) TVHC as EQUIV PENTANE (H)

5.33min 10.24PPBV m

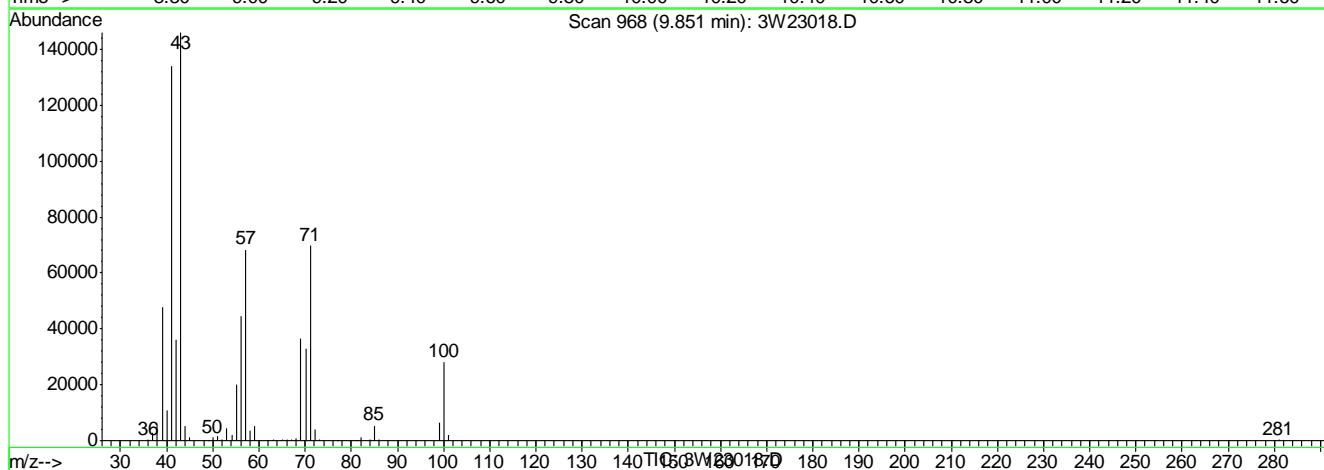
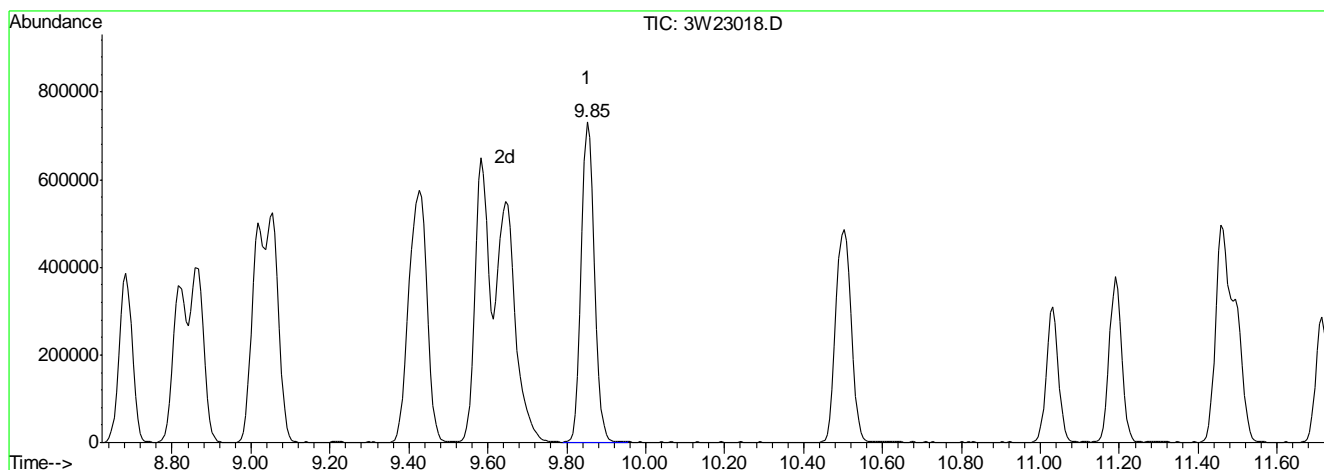
response 1027239

Signal	Exp%	Act%
TIC	100	100
0.00	1.20	1.11#
0.00	1.00	0.93#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLDV3W\V3W908-314\3W23018.D Vial: 2
Acq On : 24 Jun 2011 9:27 am Operator: yunxiac
Sample : CC886-10 Inst : MS3W
Misc : MS14246,V3W910,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 1:38 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W886.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon May 16 16:34:23 2011
Response via : Multiple Level Calibration



(61) TVHC as EQUIV HEPTANE (H)

9.85min 10.29PPBV m

response 1687683

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.80	0.67#
------	------	-------

0.00	0.70	0.57#
------	------	-------

0.00	0.00	0.00
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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32352.D Vial: 2
 Acq On : 21 Jun 2011 5:20 pm Operator: YOUMINH
 Sample : ICC1322-10 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:06 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.62	128	144503	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	742920	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.55	82	363631	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.55	82	363154	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.19 95 209210 5.32 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 106.40%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.88	67	42131	9.99	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.97	85	430953	10.15	PPBV	100
6) PROPYLENE	4.91	41	166662	9.23	PPBV	100
7) FREON 114	5.18	85	517500	10.40	PPBV	100
8) CHLOROMETHANE	5.10	52	53915	9.81	PPBV	100
9) VINYL CHLORIDE	5.28	62	194719	10.23	PPBV	100
10) 1,3-BUTADIENE	5.39	54	159872	10.03	PPBV	100
11) n-BUTANE	5.42	43	318244	9.35	PPBV	100
12) BROMOMETHANE	5.60	94	169096	10.38	PPBV	100
13) CHLOROETHANE	5.73	64	113171	10.37	PPBV	100
14) DICHLOROFLUOROMETHANE	5.78	67	399834	10.33	PPBV	100
15) ACROLEIN	6.07	56	78629	9.51	PPBV	100
16) FREON 123	6.08	83	435048	10.49	PPBV	# 100
17) FREON 123A	6.12	117	259764	10.47	PPBV	100
18) TRICHLOROFLUOROMETHANE	6.30	101	410523	10.13	PPBV	100
19) ISOPROPYL ALCOHOL	6.35	45	352380	9.68	PPBV	100
20) ACETONE	6.18	58	91441	9.43	PPBV	100
21) ACRYLONITRILE	6.52	53	153039	10.84	PPBV	100
22) PENTANE	6.56	57	56758	9.52	PPBV	100
23) TVHC as EQUIV PENTANE	6.56	TIC	1063039m	9.92	PPBV	
24) IODOMETHANE	6.74	142	457974	10.64	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.79	96	187259	10.28	PPBV	100
26) CARBON DISULFIDE	7.14	76	455314	10.34	PPBV	100
27) ETHANOL	5.81	45	87131	9.42	PPBV	100
28) ACETONITRILE	5.98	41	155859	10.17	PPBV	100
29) BROMOETHENE	5.99	106	176632	10.43	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	169171	9.68	PPBV	100
31) 3-CHLOROPROPENE	6.96	76	94692	10.80	PPBV	100
32) FREON 113	7.06	151	317055	10.59	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	178753	10.45	PPBV	100
34) TERTIARY BUTYL ALCOHOL	6.81	59	432369	10.32	PPBV	100
35) METHYL TERTIARY BUTYL ETHER	7.82	73	532344	10.92	PPBV	100
36) TETRAHYDROFURAN	9.09	72	96198	10.89	PPBV	100
37) HEXANE	8.62	57	327320	10.40	PPBV	100
38) VINYL ACETATE	7.87	86	52622	11.43	PPBV	100
39) 1,1-DICHLOROETHANE	7.78	63	351498	10.61	PPBV	100
40) METHYL ETHYL KETONE	8.10	72	95138	10.98	PPBV	100
41) cis-1,2-DICHLOROETHYLENE	8.47	96	196272	10.12	PPBV	100
42) DI-ISOPROPYL ETHER	8.61	45	698180	10.73	PPBV	100
43) ETHYL ACETATE	8.63	61	58698	10.47	PPBV	100

(#) = qualifier out of range (m) = manual integration

W32352.D MW1322.M Thu Sep 01 12:10:54 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32352.D Vial: 2
 Acq On : 21 Jun 2011 5:20 pm Operator: YOUMINH
 Sample : ICC1322-10 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:06 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) METHYL ACRYLATE	8.63	55	358803	10.88	PPBV	100
45) CHLOROFORM	8.72	83	356158	10.55	PPBV	100
46) 2,4-DIMETHYLPENTANE	9.38	57	399733	10.72	PPBV	100
47) 1,1,1-TRICHLOROETHANE	9.59	97	358938	10.68	PPBV	100
48) CARBON TETRACHLORIDE	10.14	117	368831	10.71	PPBV	100
49) 1,2-DICHLOROETHANE	9.37	62	212462	10.89	PPBV	100
51) BENZENE	10.01	78	606903	10.71	PPBV	100
52) CYCLOHEXANE	10.25	84	285076	9.97	PPBV	100
53) 2,3-DIMETHYLPENTANE	10.44	71	149257	10.56	PPBV	100
54) TRICHLOROETHYLENE	10.96	95	233489	10.60	PPBV	100
55) DIBROMOMETHANE	10.73	174	213509	10.66	PPBV	100
56) 1,2-DICHLOROPROPANE	10.75	63	221693	10.39	PPBV	100
57) ETHYL ACRYLATE	10.72	55	410325	11.11	PPBV	100
58) BROMODICHLOROMETHANE	10.93	83	379018	10.83	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.98	57	1050764	10.78	PPBV	100
60) 1,4-DIOXANE	10.98	88	125138	10.88	PPBV	100
61) METHYL METHACRYLATE	11.13	69	209731	10.84	PPBV	100
62) HEPTANE	11.21	43	371508	10.19	PPBV	100
63) TVHC as EQUIV HEPTANE	11.21	TIC	1625261m	10.30	PPBV	
64) METHYL ISOBUTYL KETONE	11.81	43	415203	10.61	PPBV	100
65) cis-1,3-DICHLOROPROPENE	11.77	75	305811	10.77	PPBV	100
66) TOLUENE	12.74	92	412957	10.86	PPBV	100
67) trans-1,3-DICHLOROPROPENE	12.29	75	288348	10.95	PPBV	100
68) 1,1,2-TRICHLOROETHANE	12.46	83	183729	11.14	PPBV	100
70) ETHYL METHACRYLATE	12.99	69	318081	11.35	PPBV	100
71) 2-HEXANONE	12.99	43	374786	10.43	PPBV	100
72) TETRACHLOROETHYLENE	13.88	164	253235	10.46	PPBV	100
73) DIBROMOCHLOROMETHANE	13.18	129	359216	11.01	PPBV	100
74) 1,2-DIBROMOETHANE	13.42	107	298825	11.02	PPBV	100
75) OCTANE	13.71	43	484875	10.53	PPBV	100
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	264223	10.97	PPBV #	100
77) CHLOROBENZENE	14.60	112	480650	10.72	PPBV	100
78) ETHYLBENZENE	14.98	91	802155	11.10	PPBV	100
79) m,p-XYLENE	15.17	106	628547	22.42	PPBV	100
80) o-XYLENE	15.69	106	302505	11.17	PPBV	100
81) STYRENE	15.57	104	452151	11.78	PPBV	100
82) 1,2,3-TRICHLOROPROPANE	15.83	75	285882	10.81	PPBV	100
83) NONANE	15.91	43	445710	11.12	PPBV	100
84) BROMOFORM	15.27	173	319097	11.41	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.69	83	356425	11.23	PPBV	100
87) ISOPROPYLBENZENE	16.34	105	864332	11.34	PPBV	100
88) BROMOBENZENE	16.45	156	229160	11.50	PPBV	100
89) 2-CHLOROTOLUENE	16.87	126	190938	11.22	PPBV #	100
90) n-PROPYLBENZENE	16.91	120	221455	11.78	PPBV	100
91) 4-ETHYLTOLUENE	17.07	105	753972	11.90	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	598733	11.43	PPBV	100
93) ALPHA-METHYLSTYRENE	17.34	118	276211	11.85	PPBV	100
94) TERT-BUTYLBENZENE	17.61	134	157005	11.36	PPBV	100
95) 1,2,4-TRIMETHYLBENZENE	17.62	105	563265	11.73	PPBV	100

(#) = qualifier out of range (m) = manual integration

W32352.D MW1322.M Thu Sep 01 12:10:54 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32352.D Vial: 2
 Acq On : 21 Jun 2011 5:20 pm Operator: YOUMINH
 Sample : ICC1322-10 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:06 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

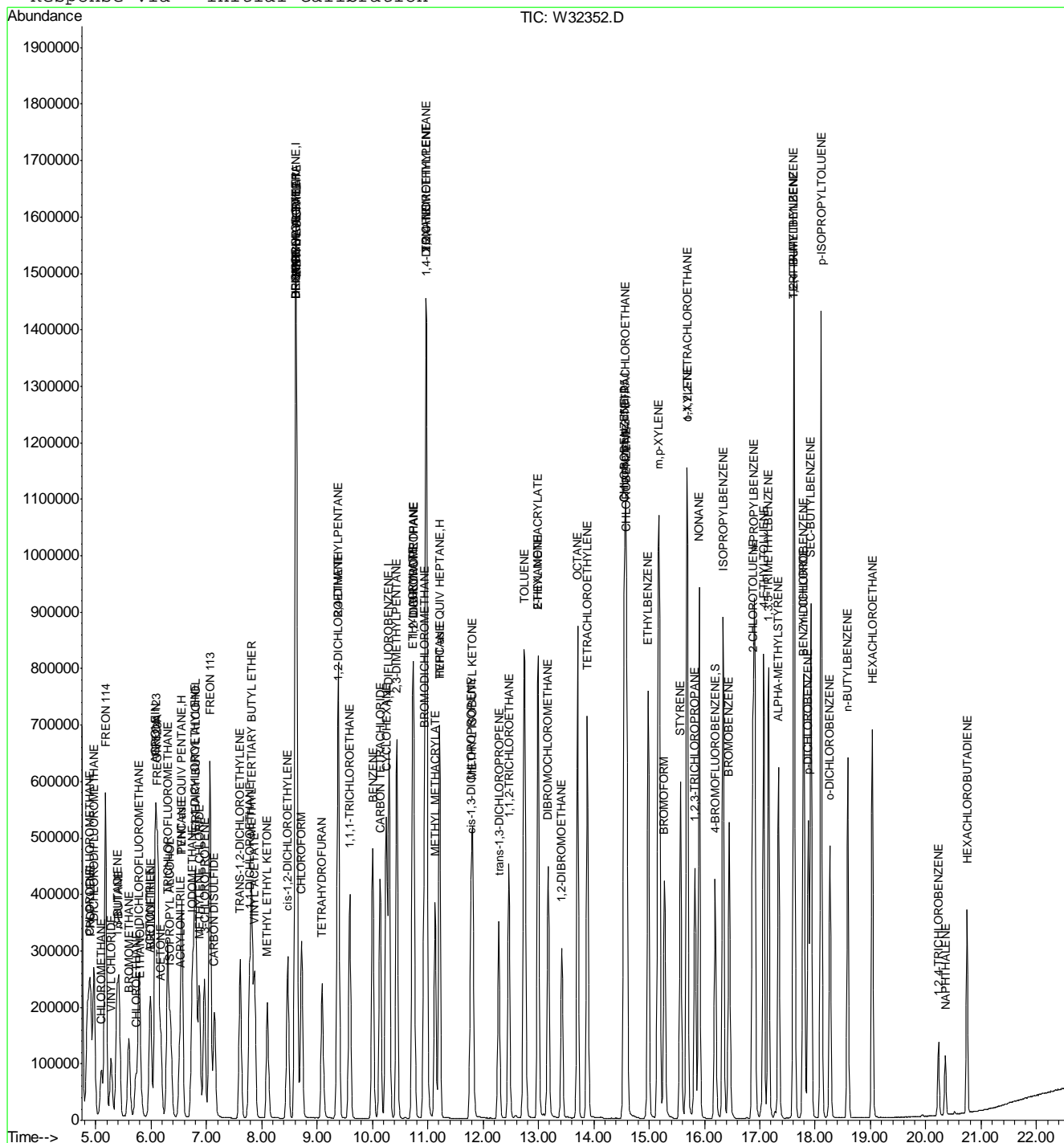
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) m-DICHLOROBENZENE	17.80	146	333023	11.71	PPBV	100
97) BENZYL CHLORIDE	17.78	91	401018	11.84	PPBV	100
98) p-DICHLOROBENZENE	17.88	146	315664	11.26	PPBV	100
99) SEC-BUTYLBENZENE	17.93	134	178032	11.46	PPBV	100
100) p-ISOPROPYLTOLUENE	18.11	134	172518	11.66	PPBV	100
101) o-DICHLOROBENZENE	18.27	146	285653	11.16	PPBV	100
102) n-BUTYLBENZENE	18.59	134	130848	11.78	PPBV	100
103) HEXACHLOROETHANE	19.04	201	181302	11.73	PPBV	100
104) HEXACHLOROBUTADIENE	20.74	225	89211	9.96	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.23	180	56503	9.22	PPBV	100
107) NAPHTHALENE	20.35	128	104019	9.57	PPBV	100

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 W32352.D MW1322.M Thu Sep 01 12:10:54 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32352.D Vial: 2
Acq On : 21 Jun 2011 5:20 pm Operator: YOUMINH
Sample : ICC1322-10 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011 Quant Results File: MW1322.RES

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration

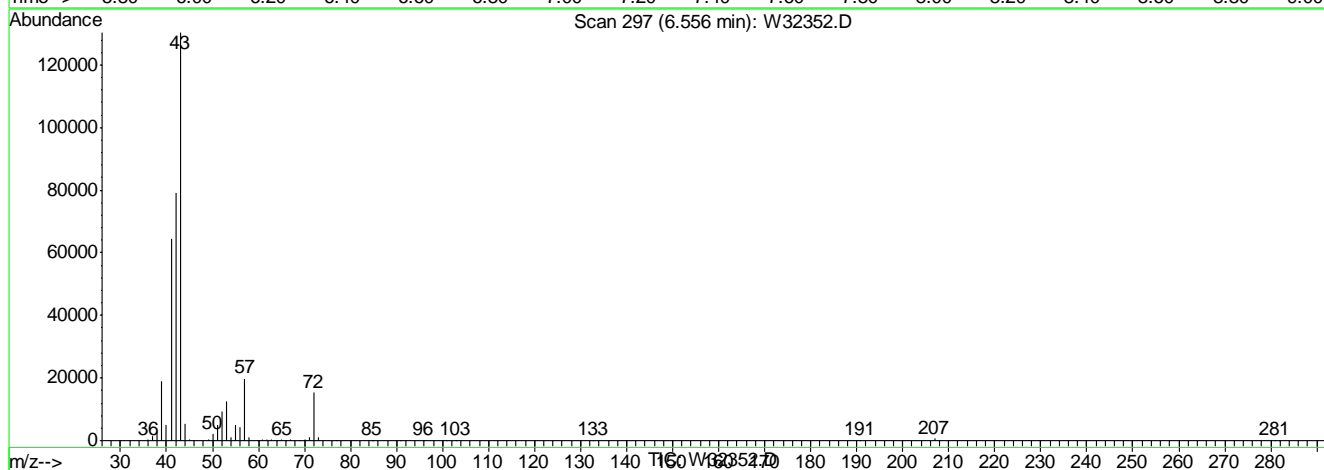
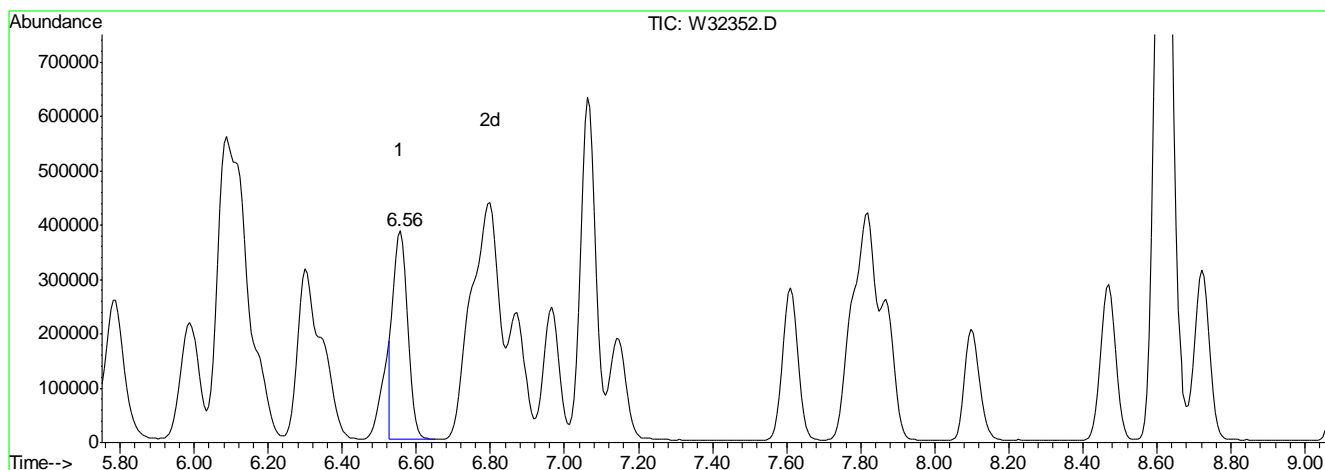


6.7.12

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32352.D Vial: 2
Acq On : 21 Jun 2011 5:20 pm Operator: YOUMINH
Sample : ICC1322-10 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 9.92PPBV m

response 1063039

Signal	Exp%	Act%
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TIC	100	100
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0.00	1.40	1.40#
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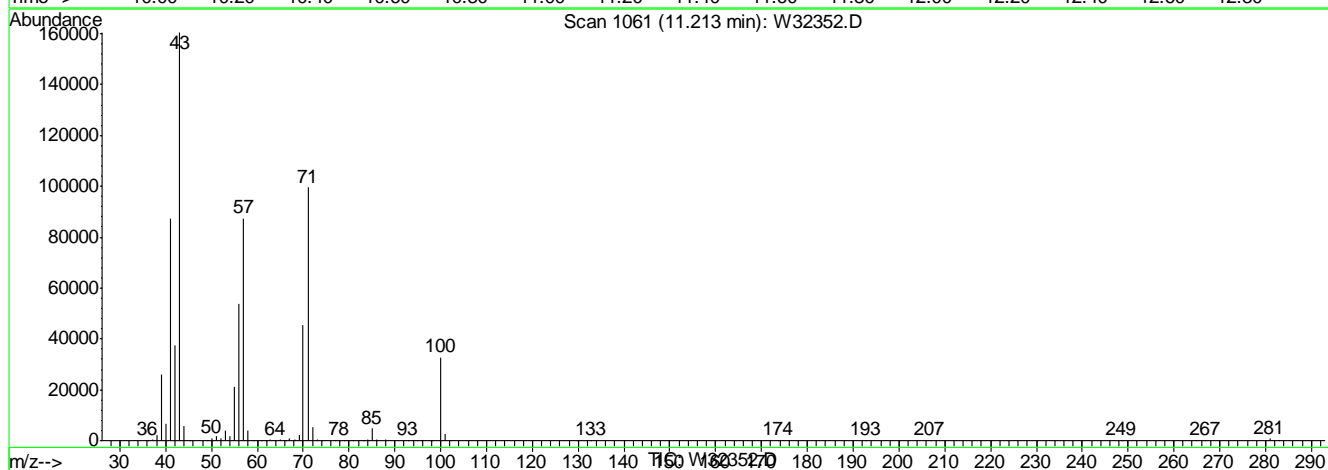
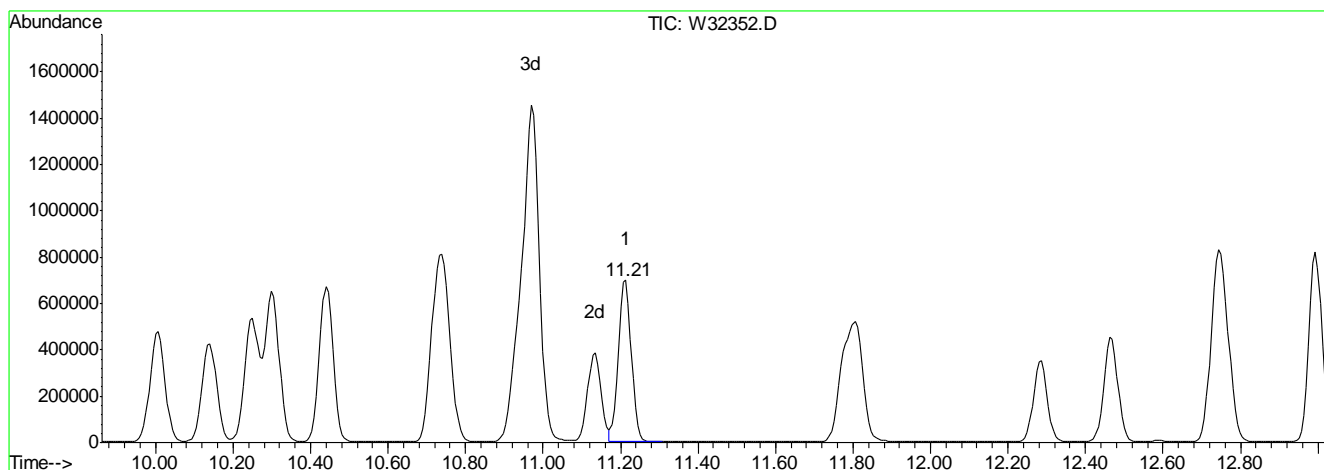
0.00	1.10	1.05#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32352.D Vial: 2
 Acq On : 21 Jun 2011 5:20 pm Operator: YOUMINH
 Sample : ICC1322-10 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 10.30PPBV m

response 1625261

Signal Exp% Act%

TIC 100 100

0.00 0.90 0.91#

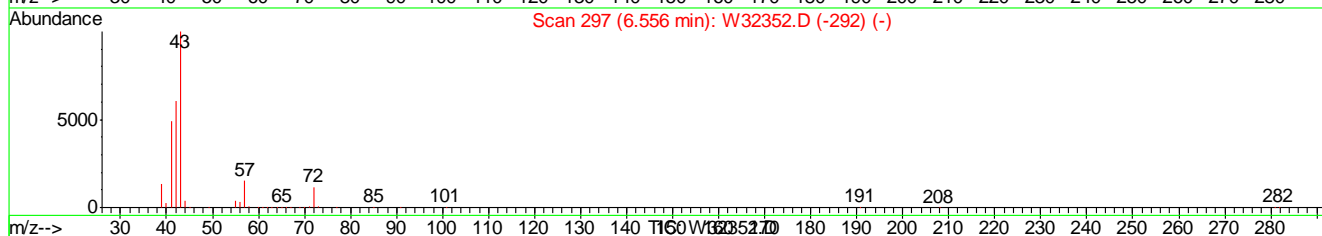
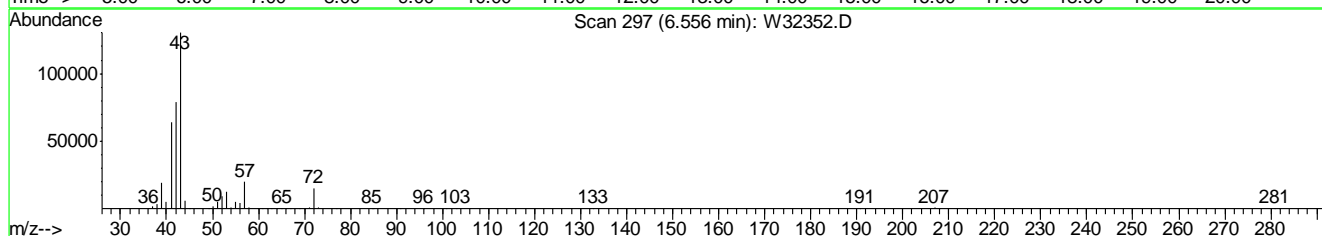
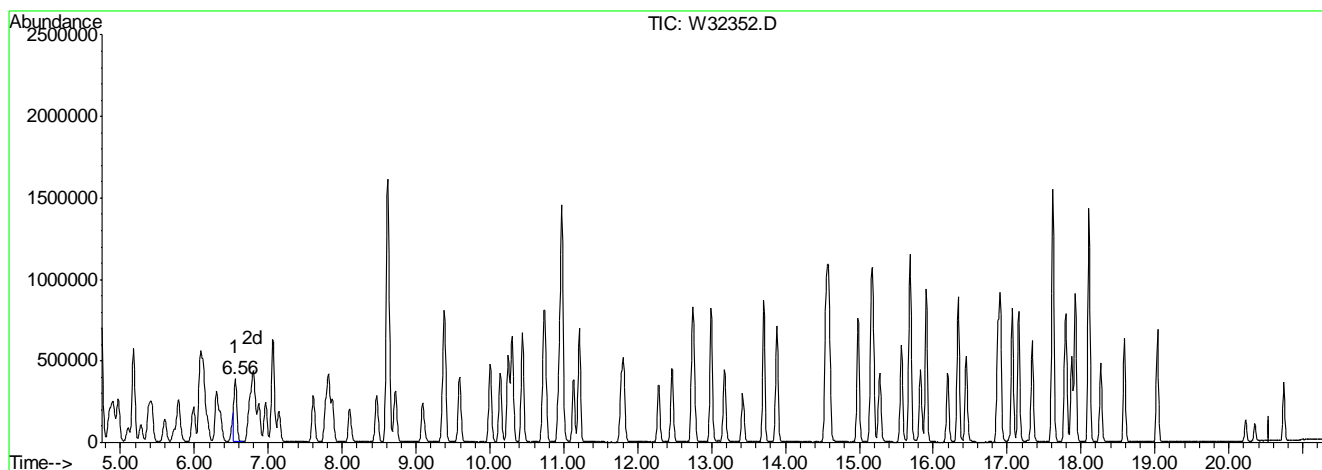
0.00 0.70 0.69#

0.00 0.00 0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32352.D Vial: 2
Acq On : 21 Jun 2011 5:20 pm Operator: YOUMINH
Sample : ICC1322-10 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 9.92PPBV m

response 1063039

Signal	Exp%	Act%
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TIC	100	100
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0.00	1.40	1.40#
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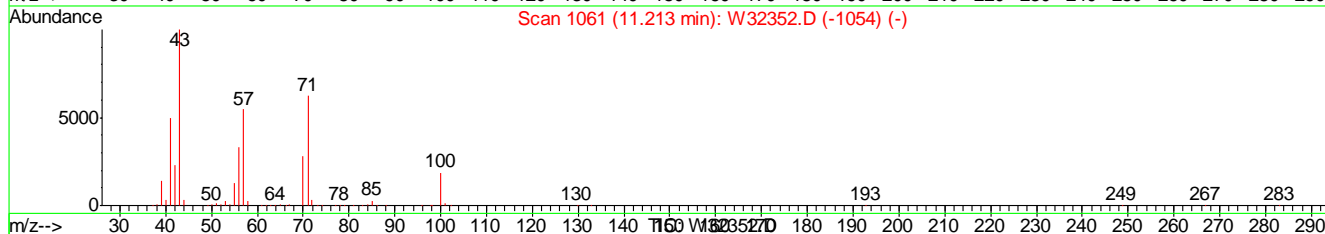
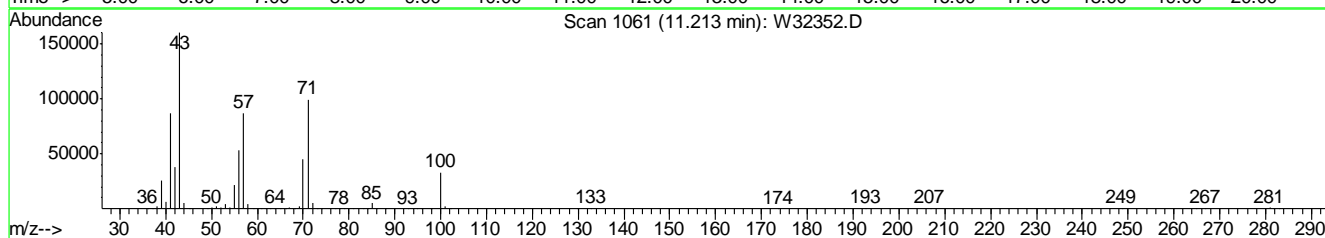
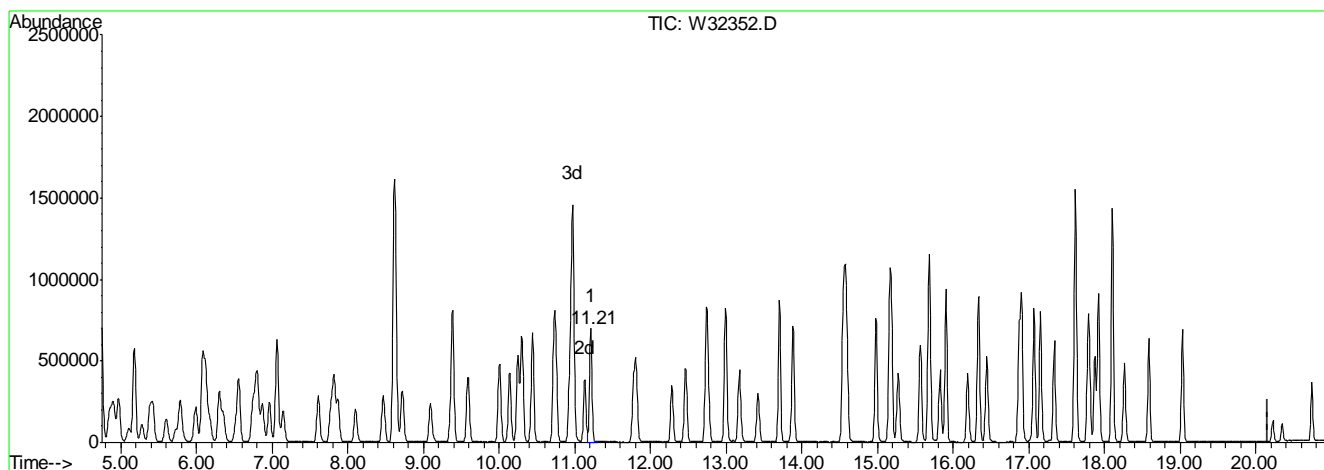
0.00	1.10	1.05#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32352.D Vial: 2
Acq On : 21 Jun 2011 5:20 pm Operator: YOUMINH
Sample : ICC1322-10 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 10.30PPBV m

response 1625261

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	0.90	0.91#
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0.00	0.70	0.69#
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0.00	0.00	0.00
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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32353.D Vial: 1
 Acq On : 21 Jun 2011 6:00 pm Operator: YOUMINH
 Sample : IC1322-0.5 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:09 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.61	128	141430	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	736420	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.54	82	340904	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.54	82	339799	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.19	95	183702	4.99	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	99.80%

Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	4.89	67	2097	0.51	PPBV	94
5) DICHLORODIFLUOROMETHANE	4.97	85	19836	0.48	PPBV	99
6) PROPYLENE	4.91	41	8067	0.46	PPBV	94
7) FREON 114	5.18	85	23343	0.48	PPBV	99
8) CHLOROMETHANE	5.11	52	2684	0.50	PPBV #	74
9) VINYL CHLORIDE	5.28	62	9057	0.49	PPBV	99
10) 1,3-BUTADIENE	5.39	54	7613	0.49	PPBV	92
11) n-BUTANE	5.42	43	14887	0.45	PPBV #	99
12) BROMOMETHANE	5.60	94	8076	0.51	PPBV	98
13) CHLOROETHANE	5.73	64	5295	0.50	PPBV	92
14) DICHLOROFLUOROMETHANE	5.79	67	18719	0.49	PPBV	98
15) ACROLEIN	6.09	56	3731	0.46	PPBV	97
16) FREON 123	6.09	83	19710	0.49	PPBV #	99
17) FREON 123A	6.12	117	12012	0.49	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.30	101	19399	0.49	PPBV	98
19) ISOPROPYL ALCOHOL	6.37	45	16557	0.46	PPBV	95
20) ACETONE	6.18	58	4364	0.46	PPBV	96
21) ACRYLONITRILE	6.52	53	6682	0.48	PPBV	98
22) PENTANE	6.56	57	2977	0.51	PPBV #	82
23) TVHC as EQUIV PENTANE	6.56	TIC	50694m	0.48	PPBV	
24) IODOMETHANE	6.74	142	21297	0.51	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.79	96	8793	0.49	PPBV	100
26) CARBON DISULFIDE	7.15	76	21896	0.51	PPBV	97
27) ETHANOL	5.82	45	5704	0.63	PPBV	97
28) ACETONITRILE	5.98	41	6739	0.45	PPBV #	1
29) BROMOETHENE	5.99	106	8228	0.50	PPBV #	98
30) METHYLENE CHLORIDE	6.87	84	8859	0.52	PPBV	99
31) 3-CHLOROPROPENE	6.96	76	4272	0.50	PPBV	96
32) FREON 113	7.06	151	14544	0.50	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	8376	0.50	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.84	59	20610	0.50	PPBV	98
35) METHYL TERTIARY BUTYL ETHER	7.82	73	23776	0.50	PPBV	96
36) TETRAHYDROFURAN	9.12	72	4159	0.48	PPBV	92
37) HEXANE	8.62	57	15380	0.50	PPBV	98
38) VINYL ACETATE	7.87	86	2121	0.47	PPBV #	81
39) 1,1-DICHLOROETHANE	7.77	63	16081	0.50	PPBV	99
40) METHYL ETHYL KETONE	8.11	72	4293	0.51	PPBV #	77
41) cis-1,2-DICHLOROETHYLENE	8.46	96	10004	0.53	PPBV	88
42) DI-ISOPROPYL ETHER	8.62	45	32780	0.51	PPBV	99
43) ETHYL ACETATE	8.63	61	2897	0.53	PPBV #	83

(#) = qualifier out of range (m) = manual integration

W32353.D MW1322.M Thu Sep 01 12:10:55 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32353.D Vial: 1
 Acq On : 21 Jun 2011 6:00 pm Operator: YOUMINH
 Sample : IC1322-0.5 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:09 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) METHYL ACRYLATE	8.63	55	16084	0.50	PPBV	99
45) CHLOROFORM	8.71	83	16429	0.50	PPBV	98
46) 2,4-DIMETHYLPENTANE	9.38	57	17912	0.49	PPBV	99
47) 1,1,1-TRICHLOROETHANE	9.59	97	16116	0.49	PPBV	99
48) CARBON TETRACHLORIDE	10.13	117	16630	0.49	PPBV	98
49) 1,2-DICHLOROETHANE	9.36	62	9740	0.51	PPBV	99
51) BENZENE	10.00	78	26657	0.47	PPBV	99
52) CYCLOHEXANE	10.24	84	13217	0.47	PPBV #	80
53) 2,3-DIMETHYLPENTANE	10.43	71	6600	0.47	PPBV	96
54) TRICHLOROETHYLENE	10.96	95	10689	0.49	PPBV	99
55) DIBROMOMETHANE	10.73	174	9506	0.48	PPBV	98
56) 1,2-DICHLOROPROPANE	10.75	63	10101	0.48	PPBV	100
57) ETHYL ACRYLATE	10.73	55	17981	0.49	PPBV	99
58) BROMODICHLOROMETHANE	10.93	83	16741	0.48	PPBV	99
59) 2,2,4-TRIMETHYLPENTANE	10.97	57	47445	0.49	PPBV	99
60) 1,4-DIOXANE	11.04	88	5288	0.46	PPBV #	1
61) METHYL METHACRYLATE	11.13	69	9227	0.48	PPBV	97
62) HEPTANE	11.21	43	16551	0.46	PPBV	98
63) TVHC as EQUIV HEPTANE	11.21	TIC	73109m	0.47	PPBV	
64) METHYL ISOBUTYL KETONE	11.82	43	19109	0.49	PPBV	98
65) cis-1,3-DICHLOROPROPENE	11.77	75	13408	0.48	PPBV	94
66) TOLUENE	12.74	92	17552	0.47	PPBV	97
67) trans-1,3-DICHLOROPROPENE	12.28	75	12376	0.47	PPBV	97
68) 1,1,2-TRICHLOROETHANE	12.46	83	8017	0.49	PPBV	98
70) ETHYL METHACRYLATE	12.99	69	13280	0.51	PPBV	98
71) 2-HEXANONE	13.01	43	18772	0.56	PPBV	95
72) TETRACHLOROETHYLENE	13.88	164	11378	0.50	PPBV	98
73) DIBROMOCHLOROMETHANE	13.17	129	15012	0.49	PPBV	99
74) 1,2-DIBROMOETHANE	13.42	107	12635	0.50	PPBV	98
75) OCTANE	13.71	43	21271	0.49	PPBV	97
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	11360	0.50	PPBV #	98
77) CHLOROBENZENE	14.59	112	21222	0.50	PPBV #	81
78) ETHYLBENZENE	14.97	91	33366	0.49	PPBV	99
79) m,p-XYLENE	15.17	106	26314	1.00	PPBV	99
80) o-XYLENE	15.68	106	12624	0.50	PPBV	99
81) STYRENE	15.57	104	17476	0.49	PPBV	99
82) 1,2,3-TRICHLOROPROPANE	15.83	75	12186	0.49	PPBV	98
83) NONANE	15.90	43	17658	0.47	PPBV	100
84) BROMOFORM	15.27	173	12828	0.49	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	15.68	83	14531	0.49	PPBV	98
87) ISOPROPYLBENZENE	16.33	105	35340	0.49	PPBV	99
88) BROMOBENZENE	16.44	156	8915	0.48	PPBV	97
89) 2-CHLOROTOLUENE	16.87	126	7750	0.49	PPBV #	100
90) n-PROPYLBENZENE	16.91	120	8694	0.49	PPBV	98
91) 4-ETHYLTOLUENE	17.07	105	28291	0.48	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	24231	0.49	PPBV	98
93) ALPHA-METHYLSTYRENE	17.33	118	8768	0.40	PPBV	99
94) TERT-BUTYLBENZENE	17.61	134	6095	0.47	PPBV	94
95) 1,2,4-TRIMETHYLBENZENE	17.62	105	21992	0.49	PPBV	98

(#) = qualifier out of range (m) = manual integration

W32353.D MW1322.M Thu Sep 01 12:10:55 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32353.D Vial: 1
Acq On : 21 Jun 2011 6:00 pm Operator: YOUMINH
Sample : IC1322-0.5 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 22 11:06:09 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:04:41 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) m-DICHLOROBENZENE	17.80	146	12388	0.46	PPBV	99
97) BENZYL CHLORIDE	17.78	91	14297	0.45	PPBV	99
98) p-DICHLOROBENZENE	17.88	146	11811	0.45	PPBV	95
99) SEC-BUTYLBENZENE	17.93	134	6822	0.47	PPBV	99
100) p-ISOPROPYLTOLUENE	18.10	134	6432	0.46	PPBV	94
101) o-DICHLOROBENZENE	18.27	146	11406	0.48	PPBV	99
102) n-BUTYLBENZENE	18.59	134	4713	0.45	PPBV	99
103) HEXACHLOROETHANE	19.03	201	6146	0.42	PPBV	90
104) HEXACHLOROBUTADIENE	20.74	225	4931	0.59	PPBV	97
105) 1,2,4-TRICHLOROBENZENE	20.23	180	3436	0.60	PPBV	98
107) NAPHTHALENE	20.35	128	6028	0.59	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32353.D MW1322.M Thu Sep 01 12:10:55 2011 MSW

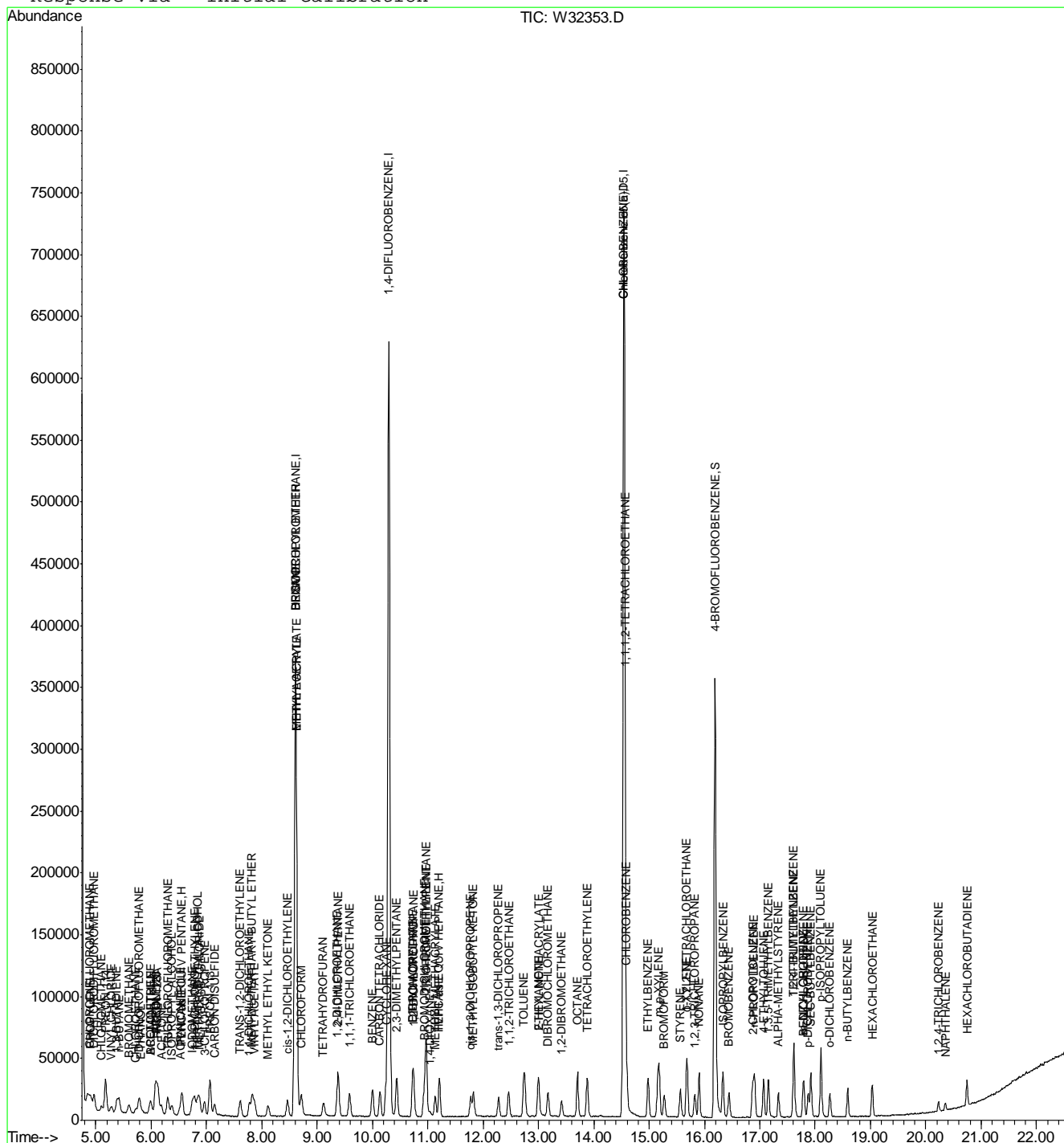
Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32353.D      Vial: 1
Acq On    : 21 Jun 2011   6:00 pm                        Operator: YOUMINH
Sample    : IC1322-0.5                                     Inst  : MSW
Misc      : MS14116,VW1322,,,,,1                        Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011                            Quant Results File: MW1322.RES

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Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



W32353.D MW1322.M

Thu Sep 01 12:10:56 2011

MSW

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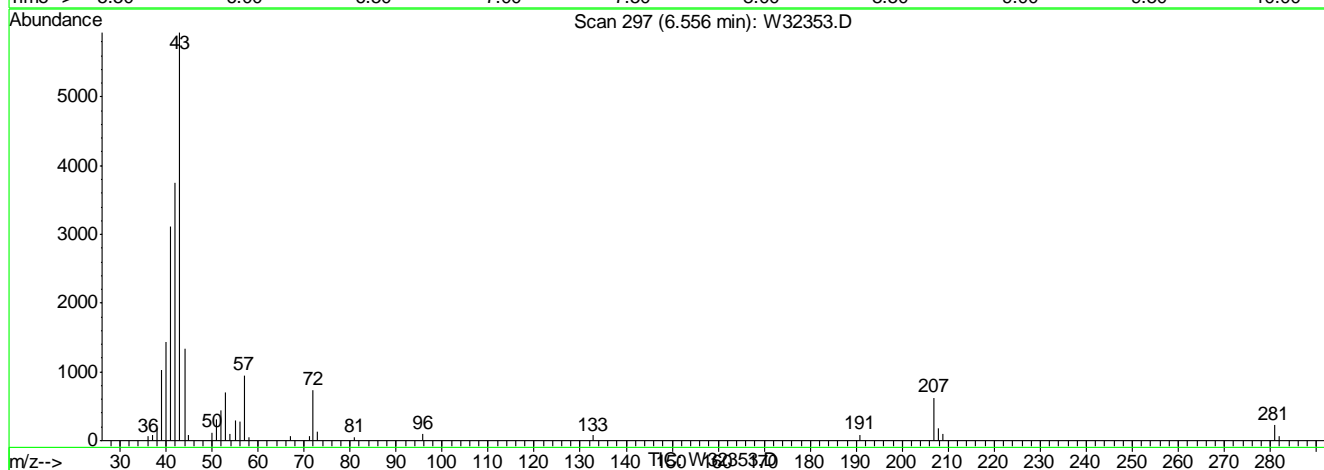
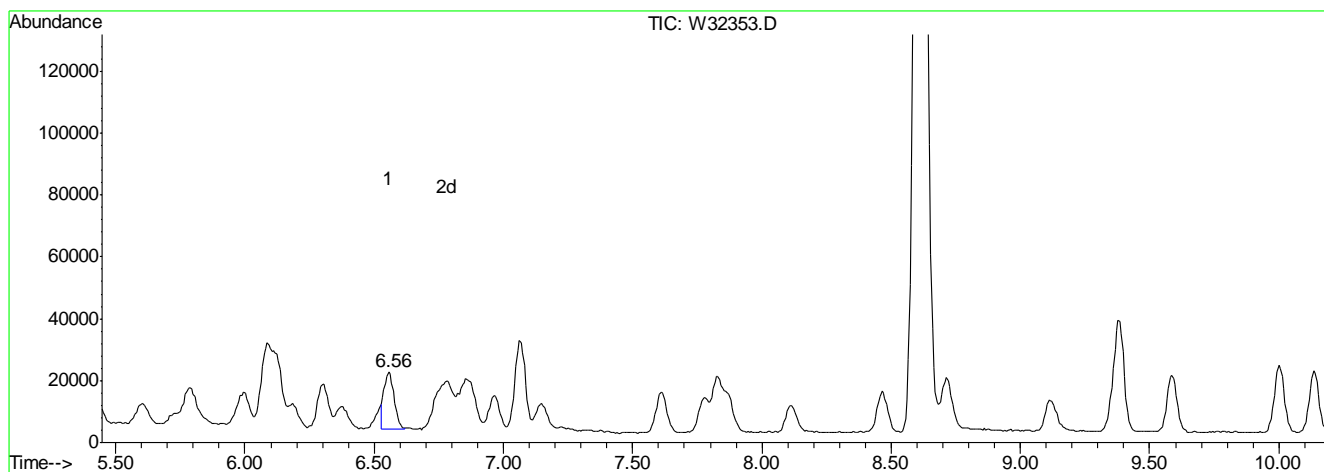
6.7.13



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32353.D Vial: 1
 Acq On : 21 Jun 2011 6:00 pm Operator: YOUMINH
 Sample : IC1322-0.5 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 0.48PPBV m

response 50694

Signal Exp% Act%

TIC 100 100

0.00 1.40 1.62#

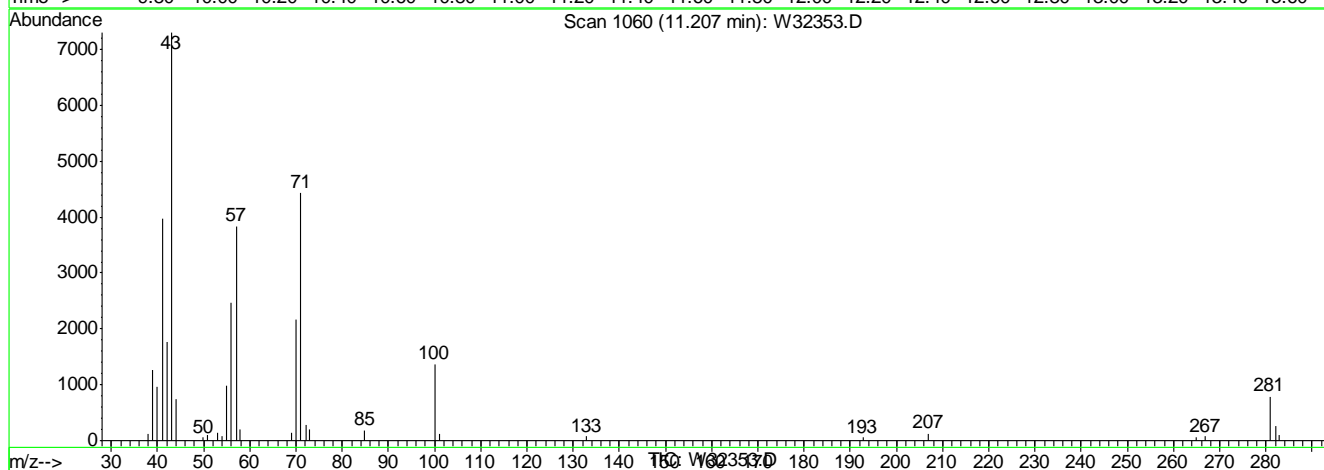
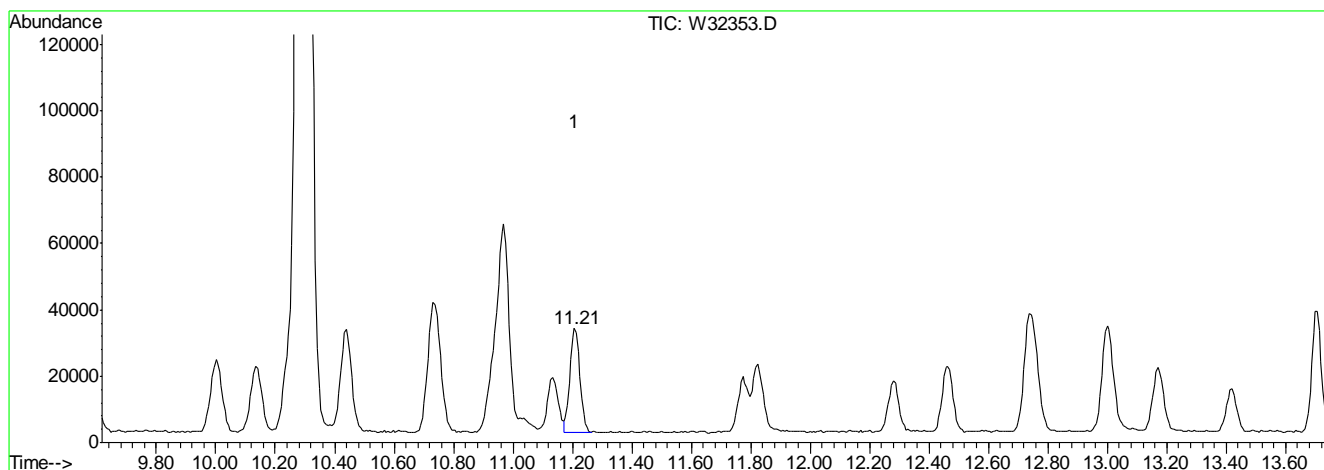
0.00 1.10 1.19#

0.00 0.00 0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32353.D Vial: 1
 Acq On : 21 Jun 2011 6:00 pm Operator: YOUMINH
 Sample : IC1322-0.5 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 0.47PPBV m

response 73109

Signal Exp% Act%

TIC 100 100

0.00 0.90 1.13#

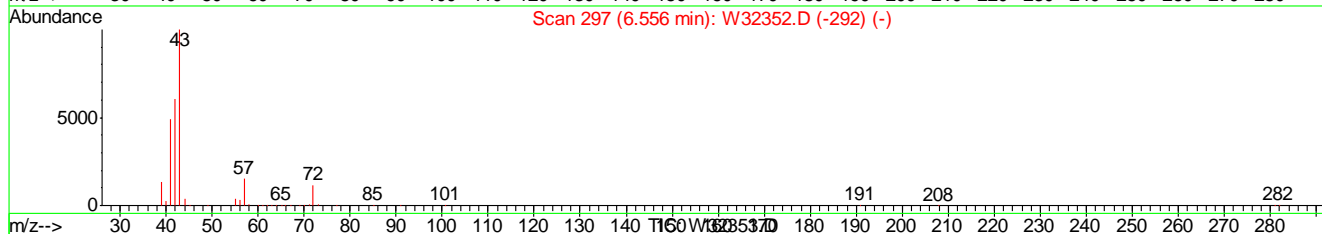
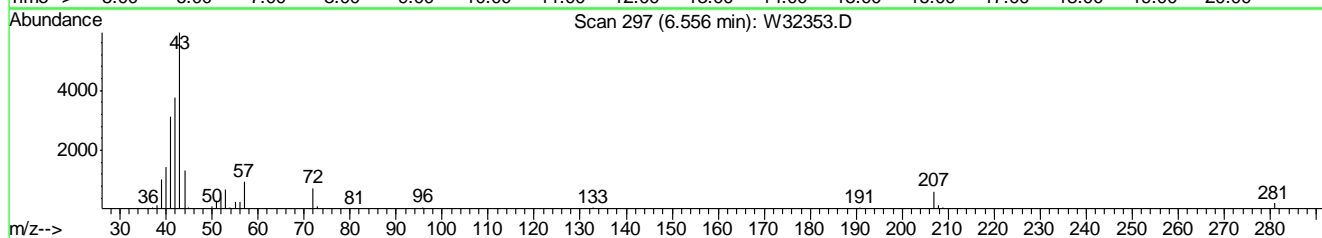
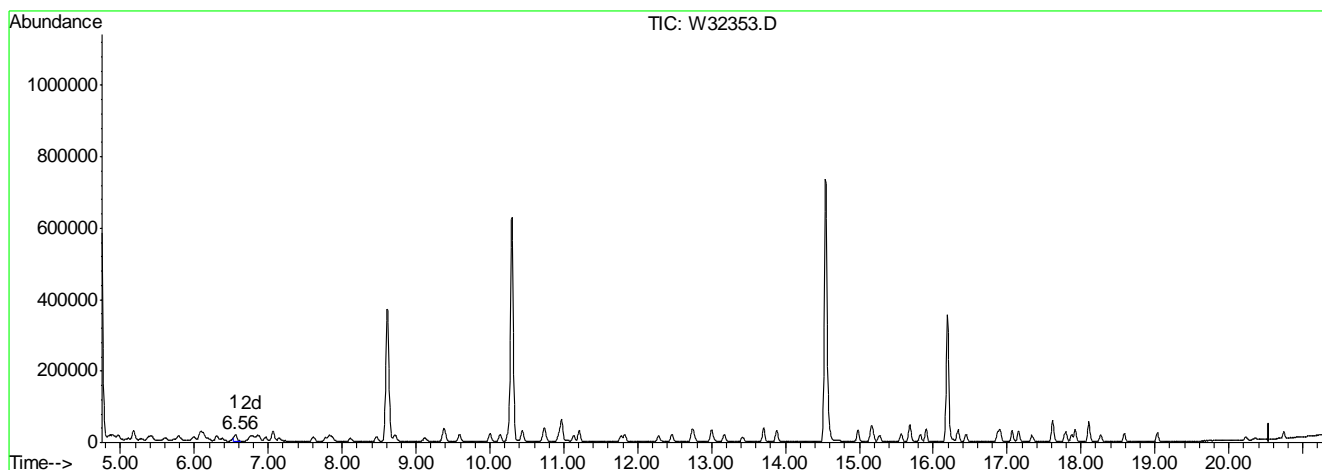
0.00 0.70 0.83#

0.00 0.00 0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32353.D Vial: 1
 Acq On : 21 Jun 2011 6:00 pm Operator: YOUMINH
 Sample : IC1322-0.5 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 0.48PPBV m

response 50694

Signal Exp% Act%

TIC 100 100

0.00 1.40 1.62#

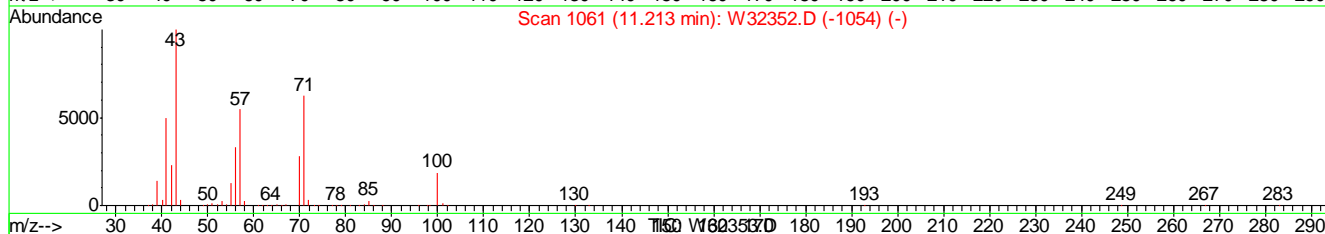
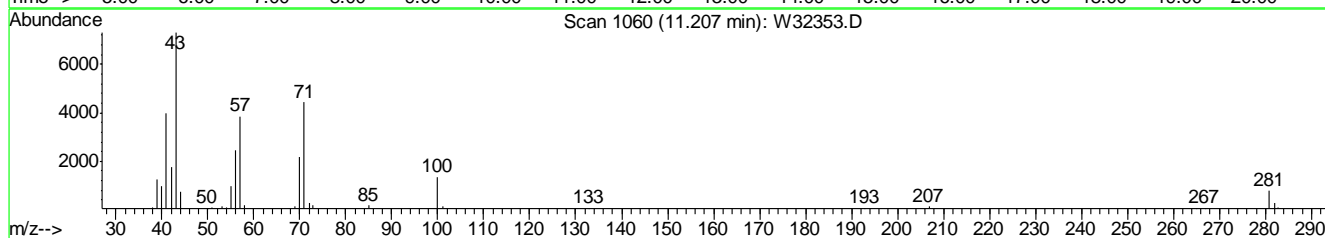
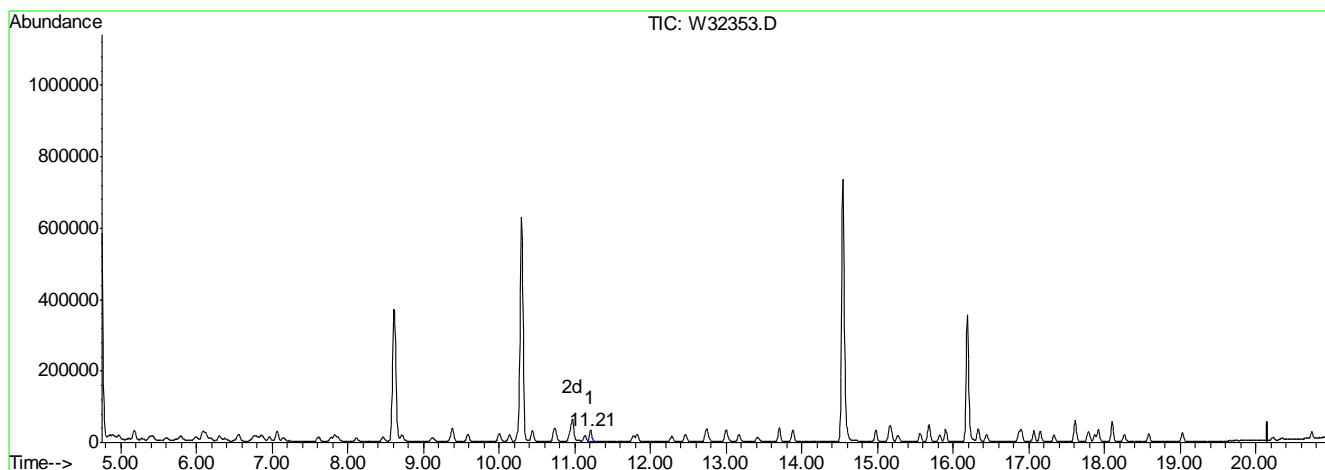
0.00 1.10 1.19#

0.00 0.00 0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32353.D Vial: 1
 Acq On : 21 Jun 2011 6:00 pm Operator: YOUMINH
 Sample : IC1322-0.5 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 0.47PPBV m

response 73109

Signal Exp% Act%

TIC 100 100

0.00 0.90 1.13#

0.00 0.70 0.83#

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32356.D Vial: 2
 Acq On : 21 Jun 2011 8:00 pm Operator: YOUMINH
 Sample : IC1322-20 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:19 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.62	128	145063	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.31	114	734372	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.55	82	371606	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.55	82	370853	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.20 95 206203 5.14 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 102.80%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.88	67	86878	20.53	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.97	85	881747	20.69	PPBV	100
6) PROPYLENE	4.91	41	351212	19.37	PPBV	98
7) FREON 114	5.18	85	1046751	20.96	PPBV	99
8) CHLOROMETHANE	5.10	52	113042	20.49	PPBV #	89
9) VINYL CHLORIDE	5.28	62	404579	21.18	PPBV	100
10) 1,3-BUTADIENE	5.38	54	330621	20.67	PPBV	100
11) n-BUTANE	5.42	43	659220	19.29	PPBV	99
12) BROMOMETHANE	5.60	94	341004	20.85	PPBV	100
13) CHLOROETHANE	5.73	64	230821	21.07	PPBV	99
14) DICHLOROFLUOROMETHANE	5.78	67	802056	20.64	PPBV	100
15) ACROLEIN	6.07	56	159847	19.25	PPBV	100
16) FREON 123	6.08	83	861403	20.68	PPBV #	100
17) FREON 123A	6.12	117	513189	20.60	PPBV	99
18) TRICHLOROFLUOROMETHANE	6.30	101	818610	20.12	PPBV	100
19) ISOPROPYL ALCOHOL	6.35	45	730025	19.98	PPBV	99
20) ACETONE	6.17	58	186945	19.21	PPBV	99
21) ACRYLONITRILE	6.52	53	313511	22.12	PPBV	99
22) PENTANE	6.56	57	114897	19.20	PPBV	100
23) TVHC as EQUIV PENTANE	6.56	TIC	2170670m	20.18	PPBV	
24) IODOMETHANE	6.74	142	901323	20.86	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.79	96	372123	20.34	PPBV	99
26) CARBON DISULFIDE	7.14	76	908896	20.56	PPBV	100
27) ETHANOL	5.81	45	175111	18.86	PPBV	99
28) ACETONITRILE	5.98	41	320908	20.86	PPBV	99
29) BROMOETHENE	6.00	106	353860	20.81	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	334142	19.04	PPBV	99
31) 3-CHLOROPROPENE	6.96	76	189266	21.50	PPBV	99
32) FREON 113	7.06	151	627259	20.87	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	355497	20.71	PPBV	100
34) TERTIARY BUTYL ALCOHOL	6.81	59	878019	20.88	PPBV	100
35) METHYL TERTIARY BUTYL ETHE	7.82	73	1057483	21.61	PPBV	100
36) TETRAHYDROFURAN	9.09	72	191410	21.58	PPBV	99
37) HEXANE	8.62	57	638560	20.21	PPBV	100
38) VINYL ACETATE	7.87	86	104546	22.62	PPBV	98
39) 1,1-DICHLOROETHANE	7.78	63	691237	20.79	PPBV	100
40) METHYL ETHYL KETONE	8.10	72	191205	21.98	PPBV	93
41) cis-1,2-DICHLOROETHYLENE	8.47	96	388995	19.98	PPBV	100
42) DI-ISOPROPYL ETHER	8.61	45	1355675	20.75	PPBV	99
43) ETHYL ACETATE	8.63	61	118085	20.98	PPBV #	92

(#) = qualifier out of range (m) = manual integration

W32356.D MW1322.M Thu Sep 01 12:11:02 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32356.D Vial: 2
 Acq On : 21 Jun 2011 8:00 pm Operator: YOUMINH
 Sample : IC1322-20 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:19 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) METHYL ACRYLATE	8.63	55	707683	21.38	PPBV	100
45) CHLOROFORM	8.73	83	700853	20.68	PPBV	100
46) 2,4-DIMETHYLPENTANE	9.38	57	783440	20.93	PPBV	100
47) 1,1,1-TRICHLOROETHANE	9.59	97	700978	20.78	PPBV	100
48) CARBON TETRACHLORIDE	10.14	117	717417	20.75	PPBV	100
49) 1,2-DICHLOROETHANE	9.37	62	417254	21.31	PPBV	100
51) BENZENE	10.01	78	1191880	21.28	PPBV	100
52) CYCLOHEXANE	10.25	84	558347	19.76	PPBV	98
53) 2,3-DIMETHYLPENTANE	10.45	71	295467	21.16	PPBV	99
54) TRICHLOROETHYLENE	10.97	95	458364	21.05	PPBV	100
55) DIBROMOMETHANE	10.74	174	418389	21.12	PPBV	99
56) 1,2-DICHLOROPROPANE	10.75	63	432576	20.51	PPBV	100
57) ETHYL ACRYLATE	10.73	55	816589	22.37	PPBV	100
58) BROMODICHLOROMETHANE	10.94	83	737172	21.31	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.98	57	2010939	20.87	PPBV	99
60) 1,4-DIOXANE	10.98	88	252773	22.22	PPBV	97
61) METHYL METHACRYLATE	11.13	69	418662	21.89	PPBV	99
62) HEPTANE	11.21	43	731201	20.29	PPBV	100
63) TVHC as EQUIV HEPTANE	11.21	TIC	3203072m	20.54	PPBV	
64) METHYL ISOBUTYL KETONE	11.81	43	825821	21.35	PPBV	99
65) cis-1,3-DICHLOROPROPENE	11.78	75	603863	21.51	PPBV	100
66) TOLUENE	12.74	92	808357	21.51	PPBV	100
67) trans-1,3-DICHLOROPROPENE	12.29	75	569202	21.86	PPBV	100
68) 1,1,2-TRICHLOROETHANE	12.47	83	361172	22.15	PPBV	100
70) ETHYL METHACRYLATE	12.99	69	636739	22.24	PPBV	100
71) 2-HEXANONE	13.00	43	748040	20.36	PPBV	99
72) TETRACHLOROETHYLENE	13.89	164	494502	19.99	PPBV	99
73) DIBROMOCHLOROMETHANE	13.18	129	704909	21.15	PPBV	100
74) 1,2-DIBROMOETHANE	13.43	107	588548	21.23	PPBV	100
75) OCTANE	13.71	43	941940	20.01	PPBV	99
76) 1,1,1,2-TETRACHLOROETHANE	14.58	131	517990	21.05	PPBV #	100
77) CHLOROBENZENE	14.60	112	947592	20.68	PPBV	100
78) ETHYLBENZENE	14.99	91	1570807	21.28	PPBV	100
79) m,p-XYLENE	15.18	106	1232966	43.04	PPBV	99
80) o-XYLENE	15.69	106	593994	21.47	PPBV	99
81) STYRENE	15.57	104	894434	22.79	PPBV	100
82) 1,2,3-TRICHLOROPROPANE	15.83	75	562462	20.81	PPBV	100
83) NONANE	15.91	43	865475	21.13	PPBV	99
84) BROMOFORM	15.28	173	628036	21.97	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.69	83	703602	21.69	PPBV	100
87) ISOPROPYLBENZENE	16.34	105	1678779	21.56	PPBV	100
88) BROMOBENZENE	16.45	156	450358	22.12	PPBV	100
89) 2-CHLOROTOLUENE	16.88	126	376142	21.64	PPBV #	100
90) n-PROPYLBENZENE	16.91	120	437698	22.79	PPBV	97
91) 4-ETHYLTOLUENE	17.07	105	1480282	22.86	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	1167972	21.81	PPBV	100
93) ALPHA-METHYLSTYRENE	17.34	118	553253	23.22	PPBV	100
94) TERT-BUTYLBENZENE	17.62	134	308730	21.85	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.63	105	1111411	22.65	PPBV	99

(#) = qualifier out of range (m) = manual integration

W32356.D MW1322.M Thu Sep 01 12:11:02 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32356.D Vial: 2
Acq On : 21 Jun 2011 8:00 pm Operator: YOUMINH
Sample : IC1322-20 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 22 11:06:19 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:04:41 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) m-DICHLOROBENZENE	17.80	146	664455	22.86	PPBV	100
97) BENZYL CHLORIDE	17.79	91	827829	23.91	PPBV	100
98) p-DICHLOROBENZENE	17.88	146	640954	22.36	PPBV	100
99) SEC-BUTYLBENZENE	17.93	134	353374	22.27	PPBV	98
100) p-ISOPROPYLTOLUENE	18.11	134	344120	22.76	PPBV	99
101) o-DICHLOROBENZENE	18.27	146	573433	21.92	PPBV	100
102) n-BUTYLBENZENE	18.59	134	271282	23.89	PPBV	98
103) HEXACHLOROETHANE	19.04	201	360939	22.85	PPBV	99
104) HEXACHLOROBUTADIENE	20.74	225	177846	19.43	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.23	180	125989	20.11	PPBV	99
107) NAPHTHALENE	20.35	128	236572	21.30	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32356.D MW1322.M Thu Sep 01 12:11:02 2011 MSW

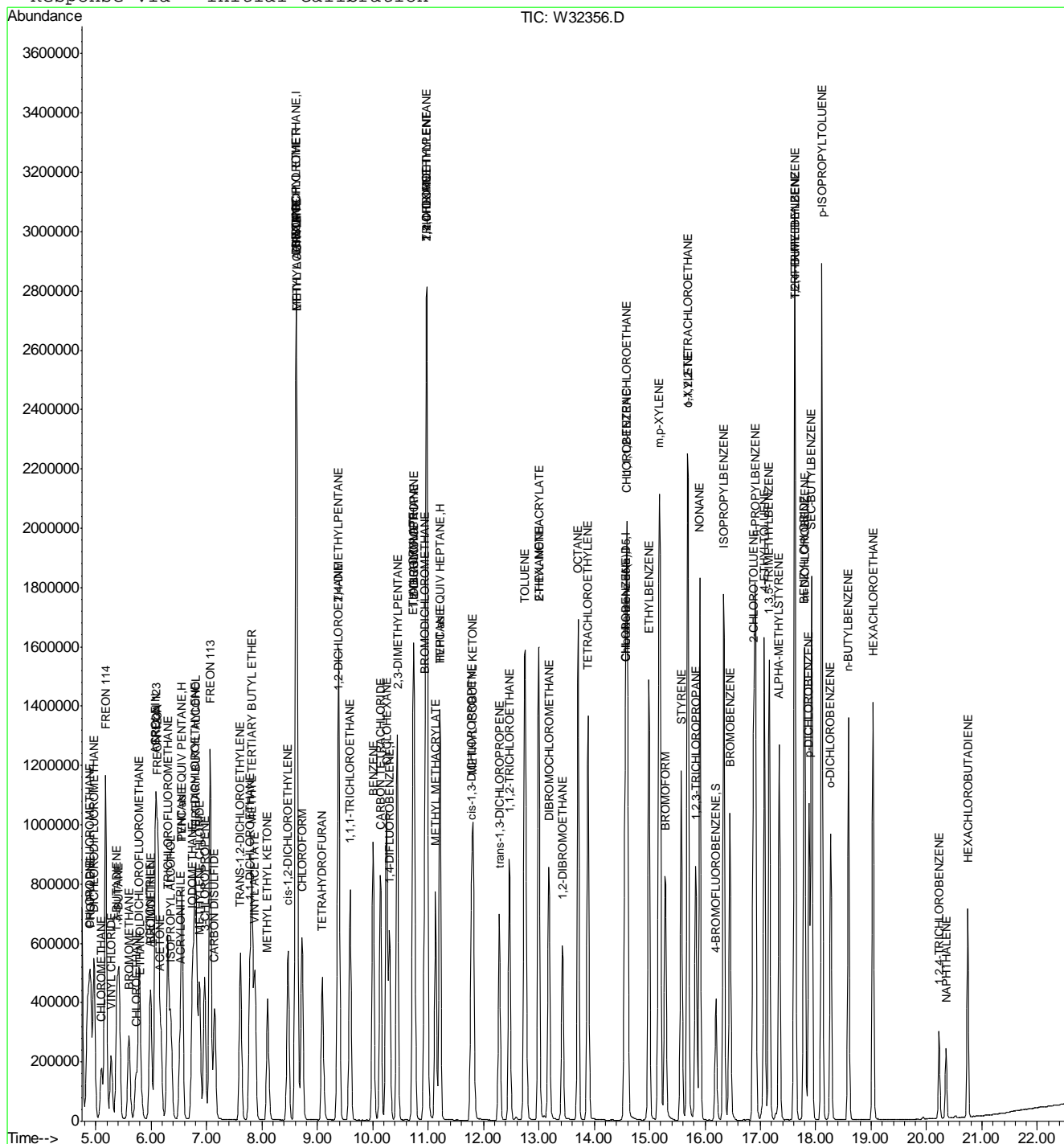
Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32356.D      Vial: 2
Acq On    : 21 Jun 2011   8:00 pm                        Operator: YOUMINH
Sample    : IC1322-20                                     Inst  : MSW
Misc      : MS14116,VW1322,,,,,1                        Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011                             Quant Results File: MW1322.RES

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Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



W32356.D MW1322.M

Thu Sep 01 12:11:04 2011

MSW

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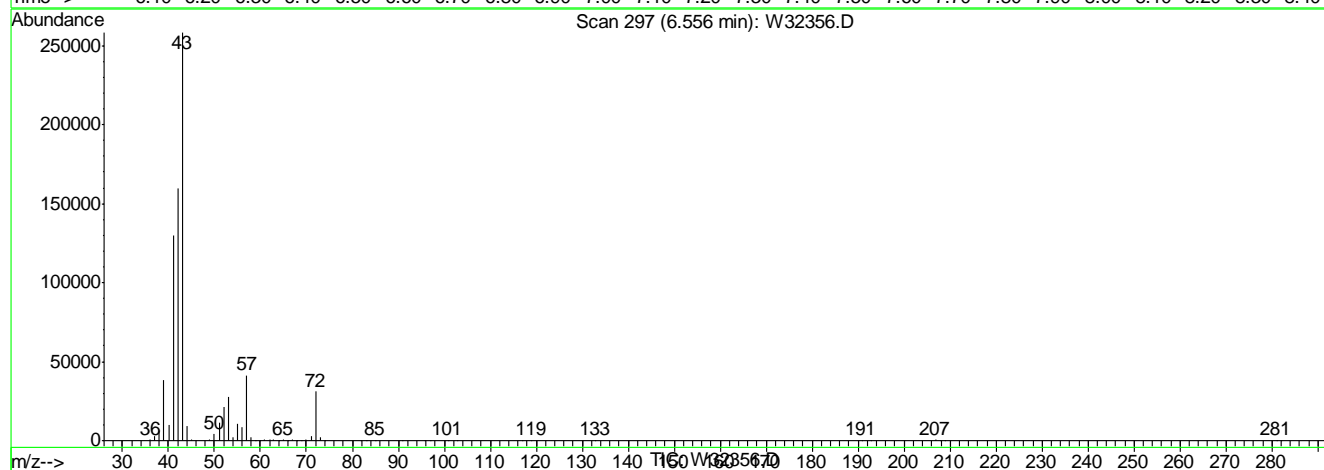
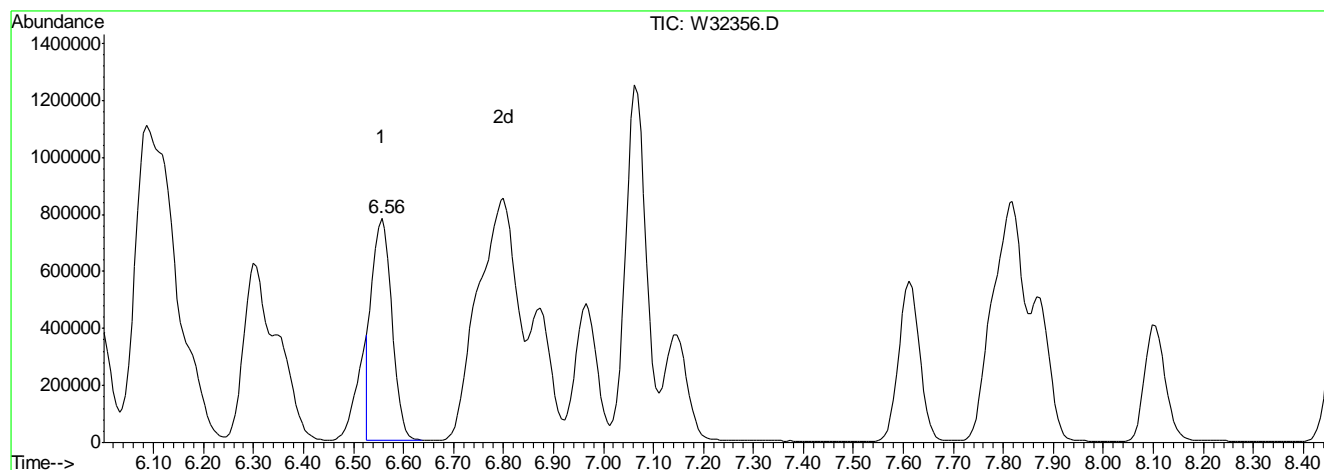
6.7.14

9

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32356.D Vial: 2
Acq On : 21 Jun 2011 8:00 pm Operator: YOUMINH
Sample : IC1322-20 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 20.18PPBV m

response 2170670

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	1.40	1.52#
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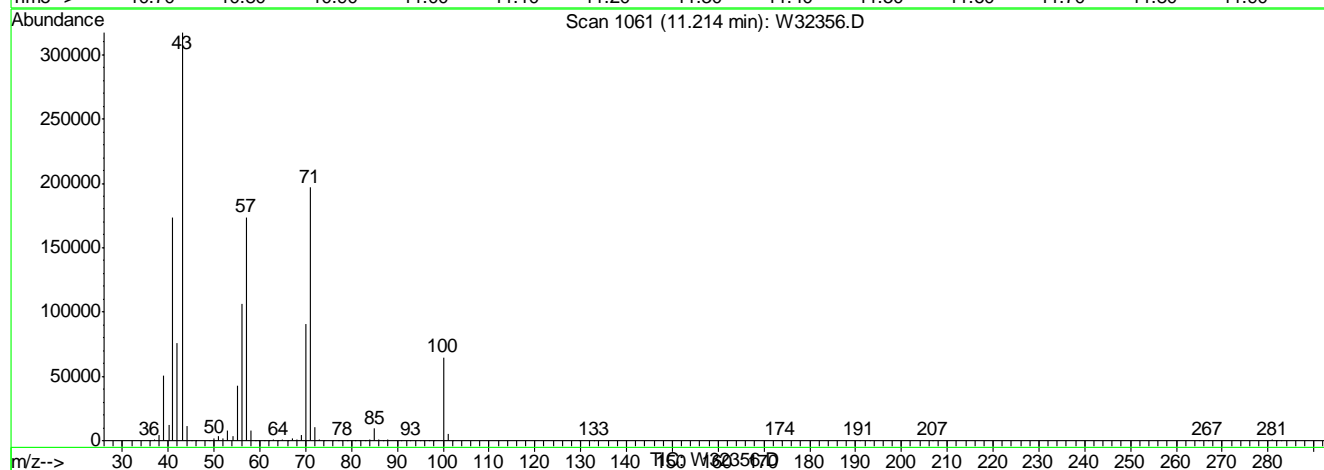
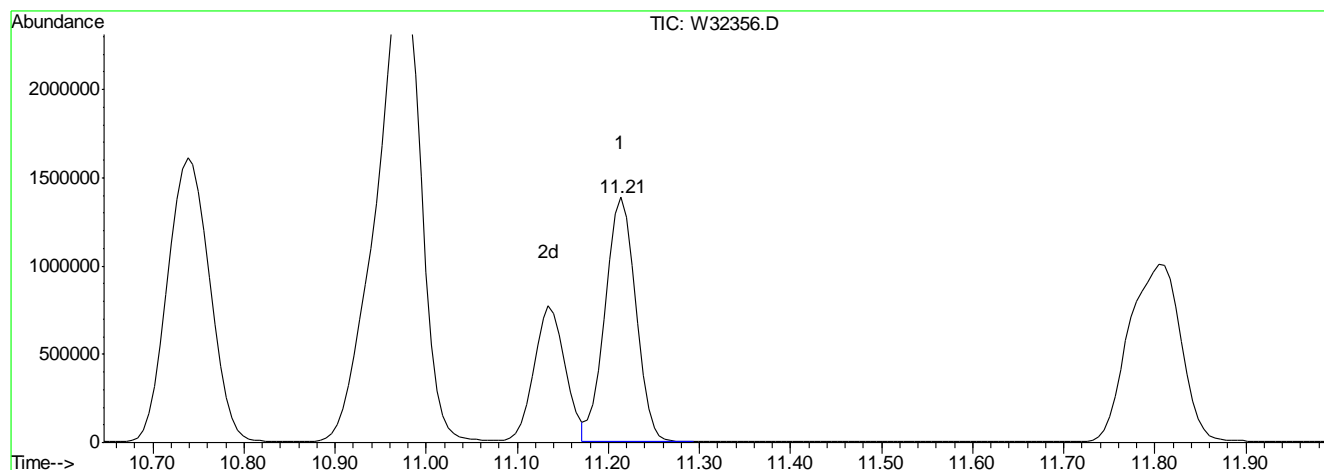
0.00	1.10	1.18#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32356.D Vial: 2
Acq On : 21 Jun 2011 8:00 pm Operator: YOUMINH
Sample : IC1322-20 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 20.54PPBV m

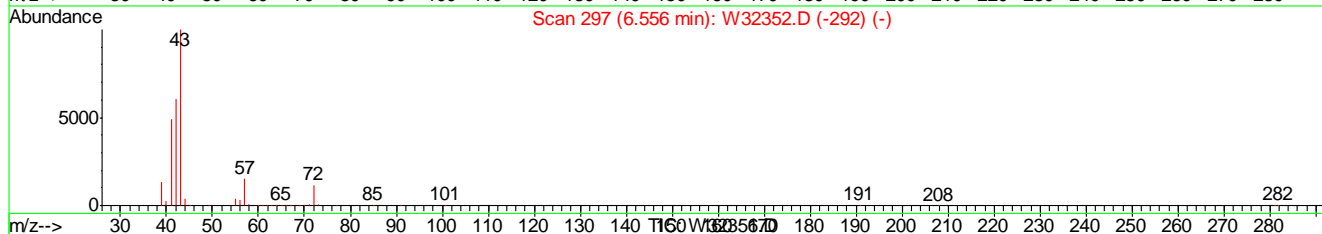
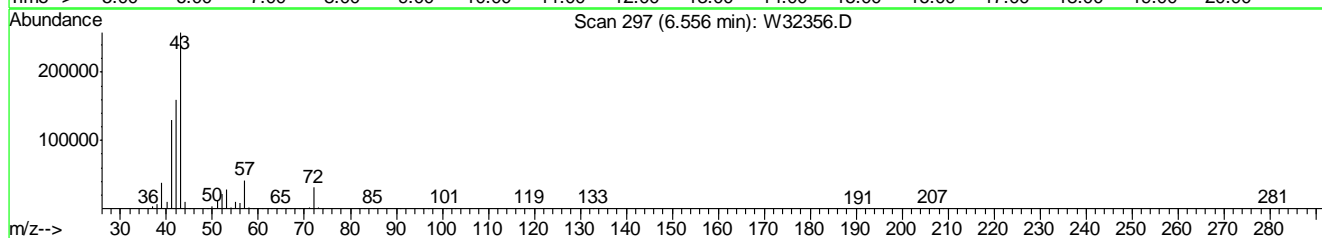
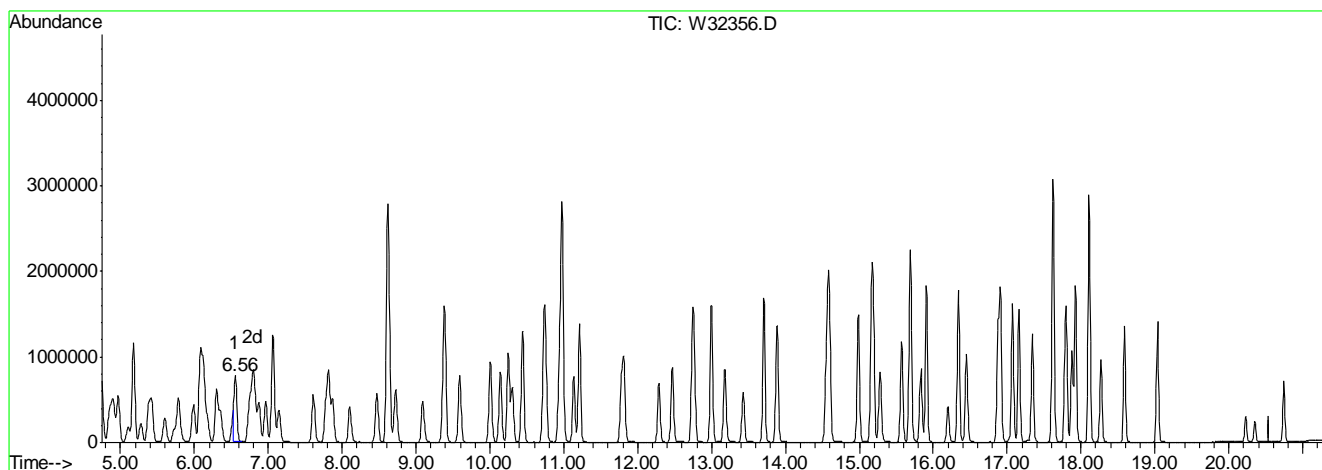
response 3203072

Signal	Exp%	Act%
TIC	100	100
0.00	0.90	1.03#
0.00	0.70	0.80#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32356.D Vial: 2
 Acq On : 21 Jun 2011 8:00 pm Operator: YOUMINH
 Sample : IC1322-20 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 20.18PPBV m

response 2170670

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	1.40	1.52#
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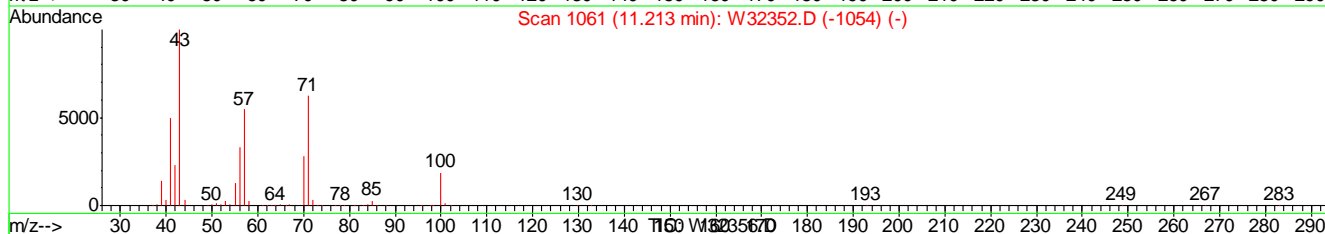
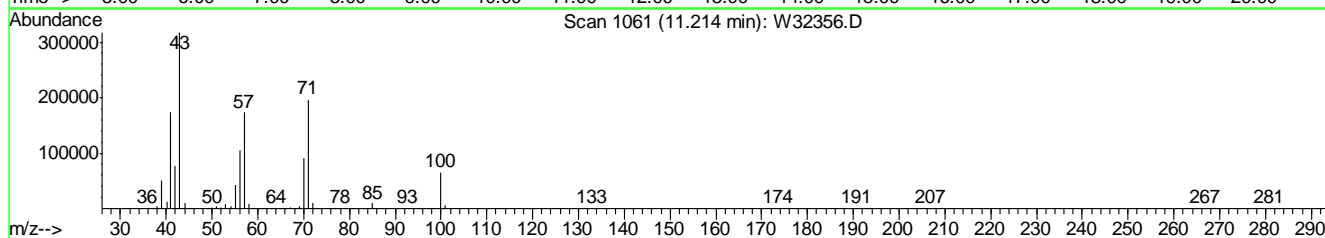
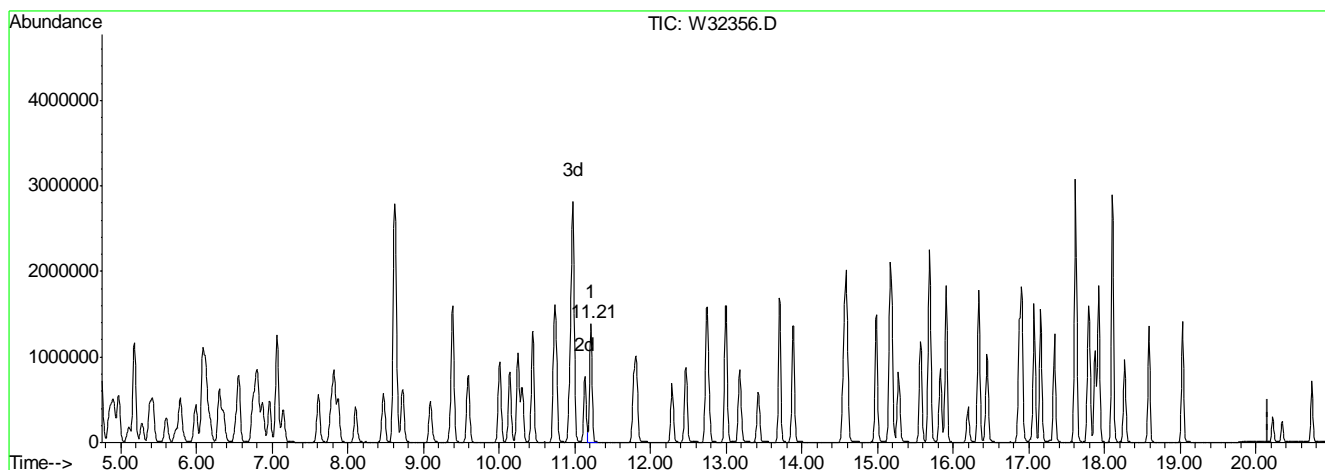
0.00	1.10	1.18#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32356.D Vial: 2
 Acq On : 21 Jun 2011 8:00 pm Operator: YOUMINH
 Sample : IC1322-20 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 20.54PPBV m

response 3203072

Signal Exp% Act%

TIC 100 100

0.00 0.90 1.03#

0.00 0.70 0.80#

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32357.D Vial: 2
 Acq On : 21 Jun 2011 8:40 pm Operator: YOUMINH
 Sample : IC1322-5.0 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:22 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.61	128	144061	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	731584	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.54	82	347185	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.54	82	346550	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.19 95 196105 5.23 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 104.60%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	4.89	67	21585	5.14	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.97	85	222531	5.26	PPBV	100
6) PROPYLENE	4.91	41	86258	4.79	PPBV	99
7) FREON 114	5.18	85	262741	5.30	PPBV	100
8) CHLOROMETHANE	5.10	52	27814	5.08	PPBV	98
9) VINYL CHLORIDE	5.28	62	99476	5.24	PPBV	99
10) 1,3-BUTADIENE	5.38	54	81640	5.14	PPBV	99
11) n-BUTANE	5.42	43	163979	4.83	PPBV	100
12) BROMOMETHANE	5.60	94	86858	5.35	PPBV	99
13) CHLOROETHANE	5.72	64	57141	5.25	PPBV	98
14) DICHLOROFLUOROMETHANE	5.78	67	202379	5.24	PPBV	100
15) ACROLEIN	6.07	56	39411	4.78	PPBV	98
16) FREON 123	6.08	83	220692	5.34	PPBV #	100
17) FREON 123A	6.12	117	131505	5.32	PPBV	100
18) TRICHLOROFLUOROMETHANE	6.30	101	209244	5.18	PPBV	100
19) ISOPROPYL ALCOHOL	6.35	45	177063	4.88	PPBV	99
20) ACETONE	6.17	58	44955	4.65	PPBV	94
21) ACRYLONITRILE	6.51	53	75392	5.36	PPBV	99
22) PENTANE	6.56	57	28940	4.87	PPBV	99
23) TVHC as EQUIV PENTANE	6.56	TIC	526159m	4.93	PPBV	
24) IODOMETHANE	6.74	142	232624	5.42	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.79	96	94161	5.18	PPBV	99
26) CARBON DISULFIDE	7.14	76	232090	5.29	PPBV	100
27) ETHANOL	5.81	45	44715	4.85	PPBV	98
28) ACETONITRILE	5.98	41	77438	5.07	PPBV	97
29) BROMOETHENE	5.99	106	89707	5.31	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	85160	4.89	PPBV	99
31) 3-CHLOROPROPENE	6.96	76	47555	5.44	PPBV	99
32) FREON 113	7.06	151	159824	5.35	PPBV	100
33) TRANS-1,2-DICHLOROETHYLENE	7.60	96	89637	5.26	PPBV	100
34) TERTIARY BUTYL ALCOHOL	6.81	59	218369	5.23	PPBV	99
35) METHYL TERTIARY BUTYL ETHER	7.82	73	259656	5.34	PPBV	100
36) TETRAHYDROFURAN	9.09	72	46162	5.24	PPBV	98
37) HEXANE	8.62	57	165800	5.28	PPBV	99
38) VINYL ACETATE	7.87	86	25275	5.51	PPBV #	96
39) 1,1-DICHLOROETHANE	7.78	63	176334	5.34	PPBV	100
40) METHYL ETHYL KETONE	8.10	72	45967	5.32	PPBV	94
41) cis-1,2-DICHLOROETHYLENE	8.47	96	97386	5.04	PPBV	99
42) DI-ISOPROPYL ETHER	8.61	45	342157	5.27	PPBV	100
43) ETHYL ACETATE	8.63	61	28793	5.15	PPBV	97

(#) = qualifier out of range (m) = manual integration

W32357.D MW1322.M Thu Sep 01 12:11:06 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32357.D Vial: 2
 Acq On : 21 Jun 2011 8:40 pm Operator: YOUMINH
 Sample : IC1322-5.0 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:22 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) METHYL ACRYLATE	8.63	55	173793	5.29	PPBV	99
45) CHLOROFORM	8.71	83	179862	5.35	PPBV	100
46) 2,4-DIMETHYLPENTANE	9.38	57	199868	5.38	PPBV	100
47) 1,1,1-TRICHLOROETHANE	9.59	97	181518	5.42	PPBV	99
48) CARBON TETRACHLORIDE	10.13	117	185453	5.40	PPBV	100
49) 1,2-DICHLOROETHANE	9.36	62	105416	5.42	PPBV	99
51) BENZENE	10.00	78	302548	5.42	PPBV	100
52) CYCLOHEXANE	10.24	84	142556	5.06	PPBV	94
53) 2,3-DIMETHYLPENTANE	10.44	71	74434	5.35	PPBV	99
54) TRICHLOROETHYLENE	10.96	95	115879	5.34	PPBV	100
55) DIBROMOMETHANE	10.73	174	105429	5.34	PPBV	99
56) 1,2-DICHLOROPROPANE	10.74	63	110611	5.26	PPBV	100
57) ETHYL ACRYLATE	10.72	55	197128	5.42	PPBV	100
58) BROMODICHLOROMETHANE	10.93	83	188632	5.47	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.97	57	532545	5.55	PPBV	100
60) 1,4-DIOXANE	10.99	88	62309	5.50	PPBV #	49
61) METHYL METHACRYLATE	11.13	69	98522	5.17	PPBV	98
62) HEPTANE	11.21	43	186788	5.20	PPBV	99
63) TVHC as EQUIV HEPTANE	11.21	TIC	807071m	5.19	PPBV	
64) METHYL ISOBUTYL KETONE	11.81	43	203864	5.29	PPBV	100
65) cis-1,3-DICHLOROPROPENE	11.77	75	149655	5.35	PPBV	99
66) TOLUENE	12.74	92	201476	5.38	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.28	75	140242	5.41	PPBV	100
68) 1,1,2-TRICHLOROETHANE	12.46	83	89110	5.49	PPBV	99
70) ETHYL METHACRYLATE	12.99	69	152243	5.69	PPBV	100
71) 2-HEXANONE	12.99	43	186597	5.44	PPBV	99
72) TETRACHLOROETHYLENE	13.88	164	124305	5.38	PPBV	99
73) DIBROMOCHLOROMETHANE	13.18	129	175938	5.65	PPBV	99
74) 1,2-DIBROMOETHANE	13.42	107	143777	5.55	PPBV	100
75) OCTANE	13.70	43	238527	5.42	PPBV	99
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	128585	5.59	PPBV #	99
77) CHLOROBENZENE	14.59	112	233834	5.46	PPBV	99
78) ETHYLBENZENE	14.98	91	386039	5.60	PPBV	100
79) m,p-XYLENE	15.17	106	300579	11.23	PPBV	99
80) o-XYLENE	15.68	106	145456	5.63	PPBV	99
81) STYRENE	15.57	104	211993	5.78	PPBV	100
82) 1,2,3-TRICHLOROPROPANE	15.82	75	137218	5.43	PPBV	99
83) NONANE	15.90	43	216240	5.65	PPBV	99
84) BROMOFORM	15.27	173	151948	5.69	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	15.68	83	170568	5.63	PPBV	100
87) ISOPROPYLBENZENE	16.33	105	414065	5.69	PPBV	100
88) BROMOBENZENE	16.44	156	108870	5.72	PPBV	99
89) 2-CHLOROTOLUENE	16.87	126	91514	5.63	PPBV #	99
90) n-PROPYLBENZENE	16.90	120	103518	5.77	PPBV	96
91) 4-ETHYLTOLUENE	17.07	105	352864	5.83	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	282484	5.65	PPBV	99
93) ALPHA-METHYLSTYRENE	17.33	118	124951	5.61	PPBV	100
94) TERT-BUTYLBENZENE	17.61	134	72693	5.51	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.62	105	263004	5.74	PPBV	100

(#) = qualifier out of range (m) = manual integration

W32357.D MW1322.M Thu Sep 01 12:11:07 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32357.D Vial: 2
Acq On : 21 Jun 2011 8:40 pm Operator: YOUMINH
Sample : IC1322-5.0 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 22 11:06:22 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:04:41 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) m-DICHLOROBENZENE	17.80	146	152717	5.62	PPBV	99
97) BENZYL CHLORIDE	17.78	91	181268	5.60	PPBV	99
98) p-DICHLOROBENZENE	17.87	146	147835	5.52	PPBV	100
99) SEC-BUTYLBENZENE	17.92	134	82017	5.53	PPBV	99
100) p-ISOPROPYLTOLUENE	18.10	134	78775	5.58	PPBV	99
101) o-DICHLOROBENZENE	18.27	146	133371	5.46	PPBV	100
102) n-BUTYLBENZENE	18.59	134	58481	5.51	PPBV	100
103) HEXACHLOROETHANE	19.03	201	85146	5.77	PPBV	99
104) HEXACHLOROBUTADIENE	20.74	225	45006	5.26	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.22	180	28264	4.83	PPBV	98
107) NAPHTHALENE	20.35	128	55212	5.32	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32357.D MW1322.M Thu Sep 01 12:11:07 2011 MSW

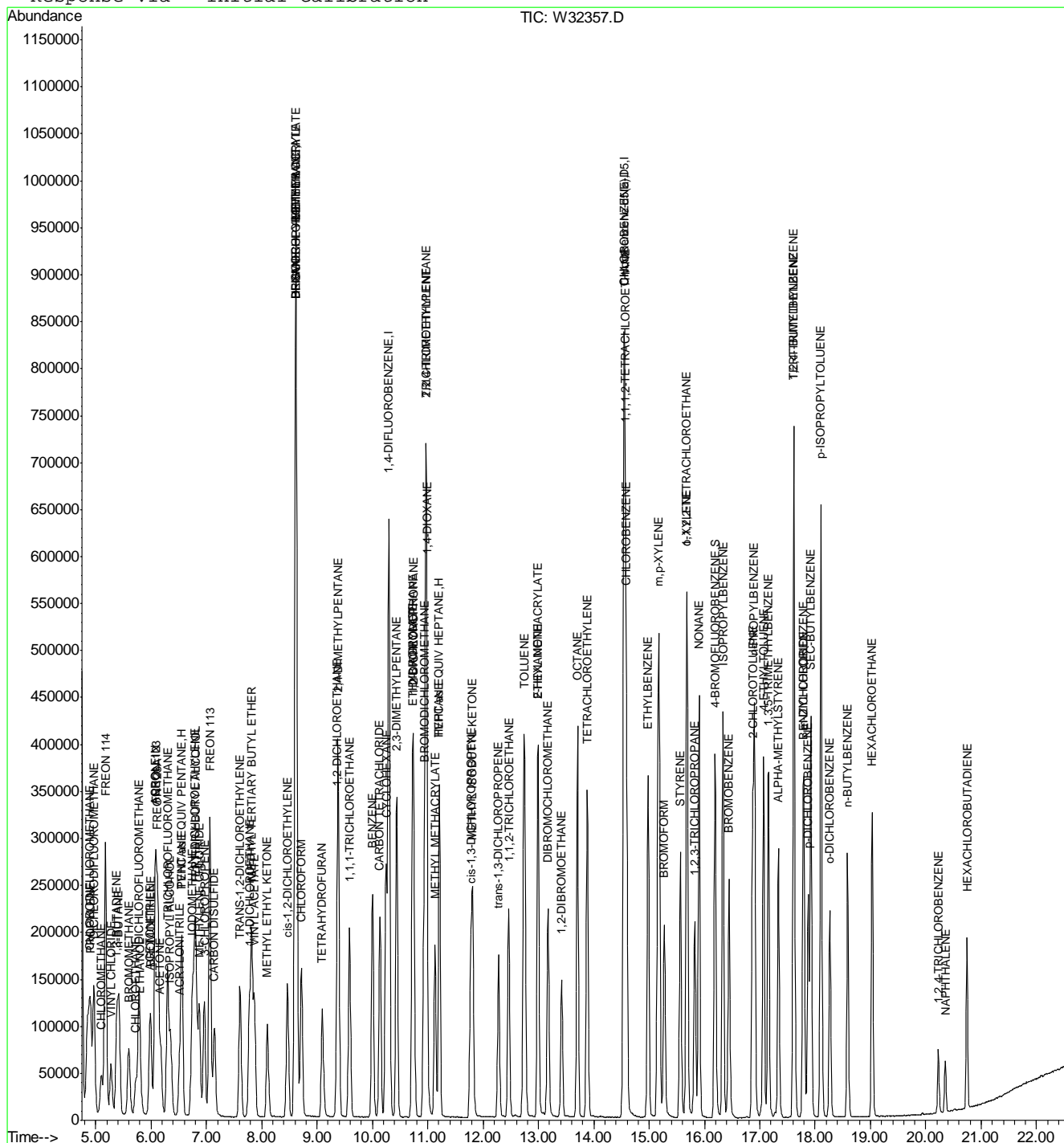
Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32357.D      Vial: 2
Acq On    : 21 Jun 2011   8:40 pm                        Operator: YOUMINH
Sample    : IC1322-5.0                                     Inst  : MSW
Misc      : MS14116,VW1322,,,,,1                         Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011                             Quant Results File: MW1322.RES

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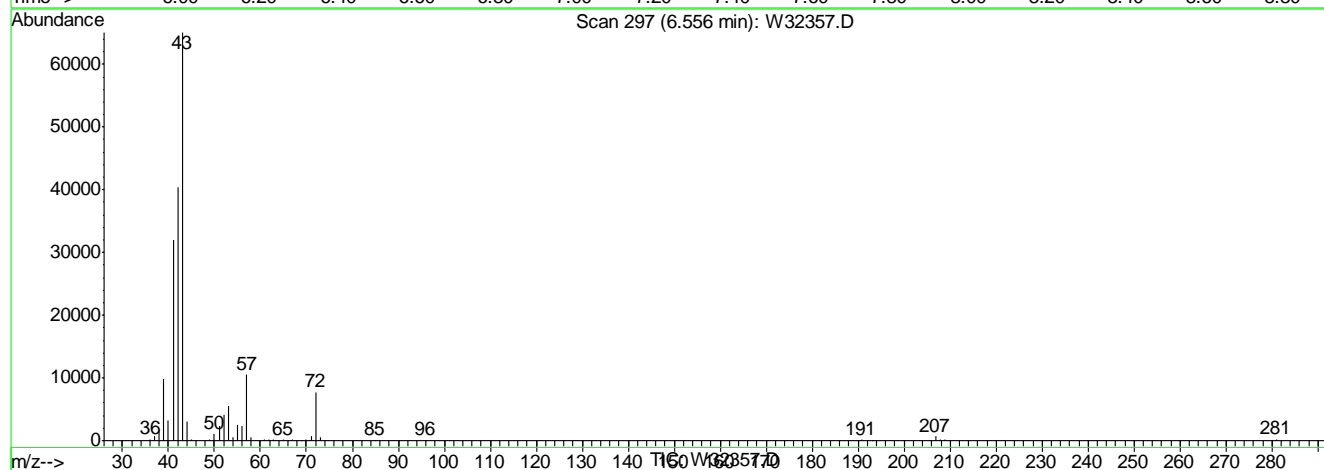
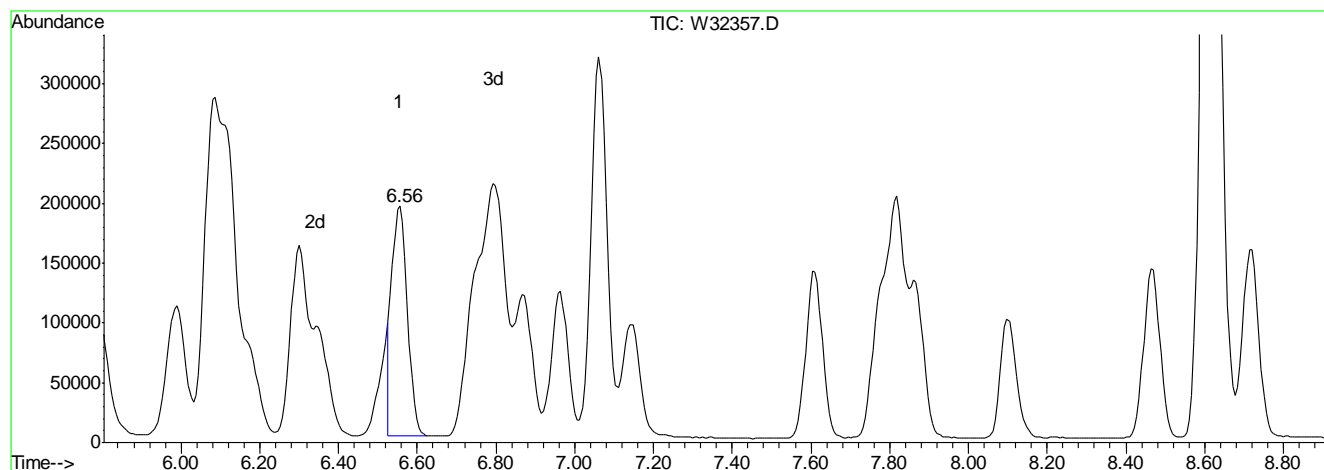
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32357.D Vial: 2
Acq On : 21 Jun 2011 8:40 pm Operator: YOUMINH
Sample : IC1322-5.0 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 4.93PPBV m

response 526159

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	1.40	1.51#
------	------	-------

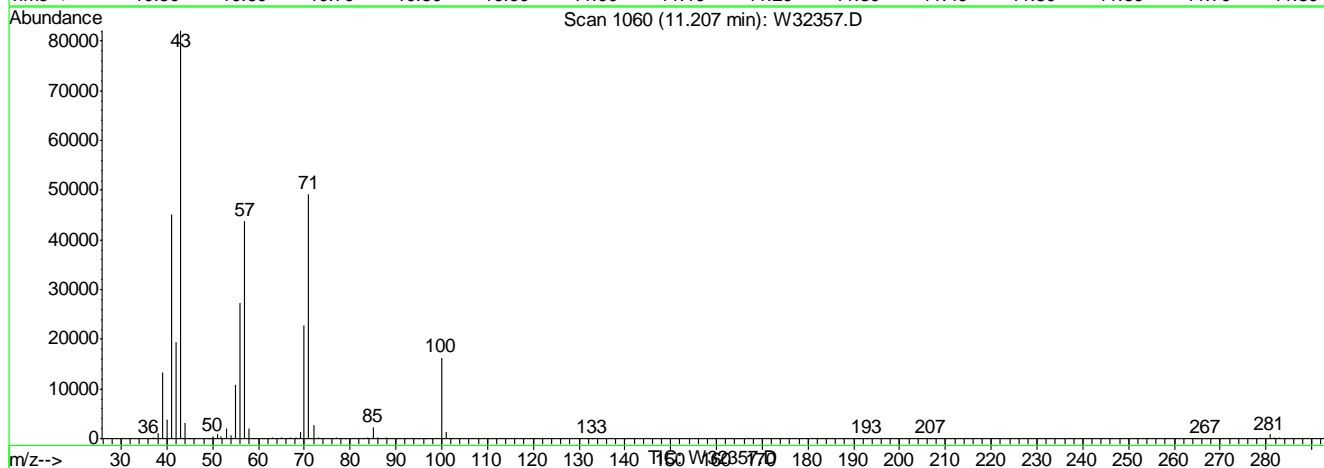
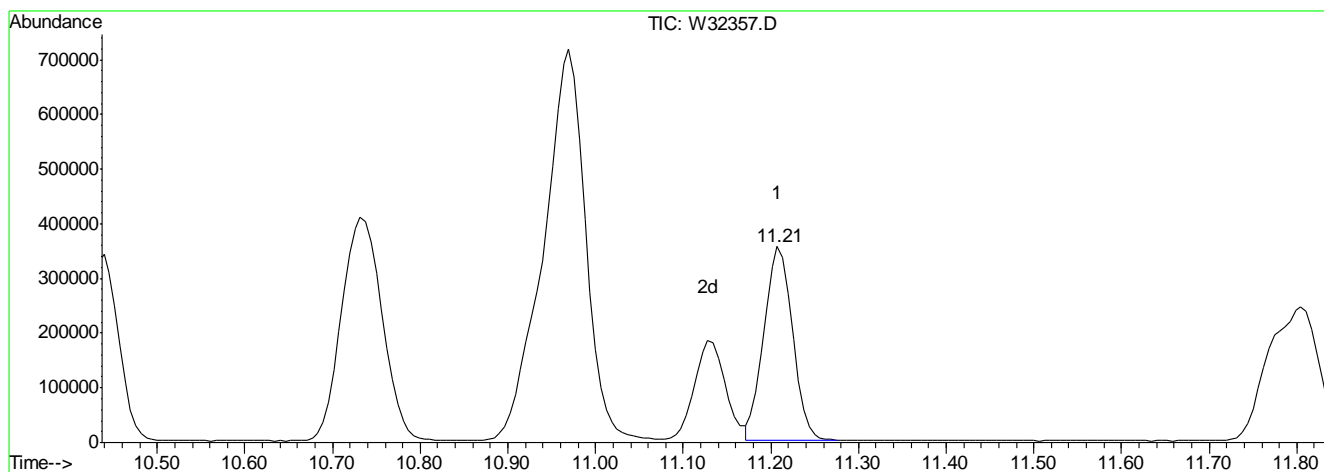
0.00	1.10	1.16#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32357.D Vial: 2
Acq On : 21 Jun 2011 8:40 pm Operator: YOUMINH
Sample : IC1322-5.0 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 5.19PPBV m

response 807071

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	0.90	0.98#
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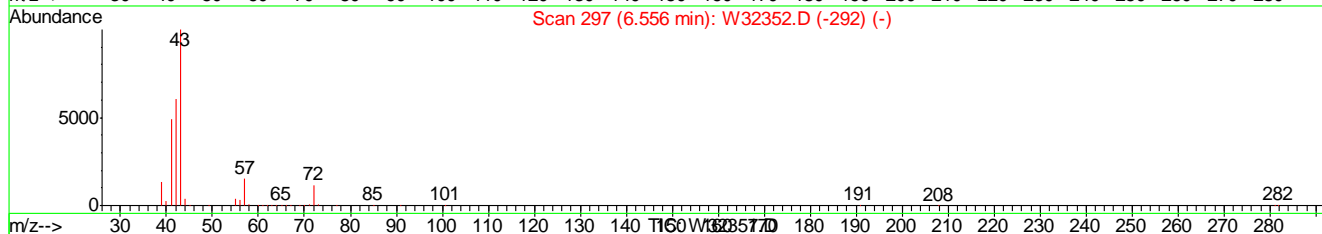
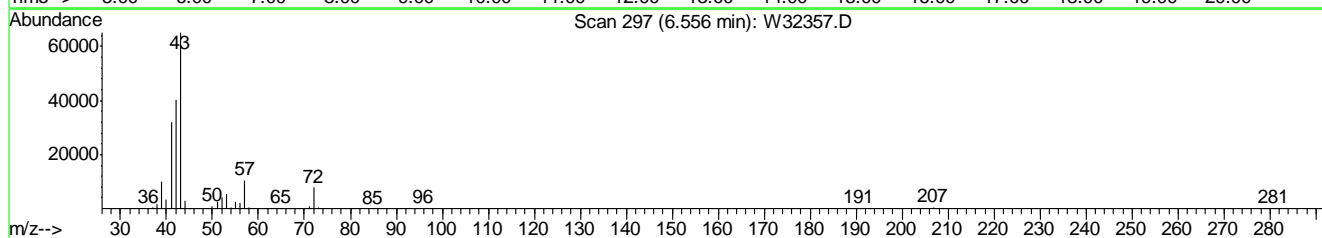
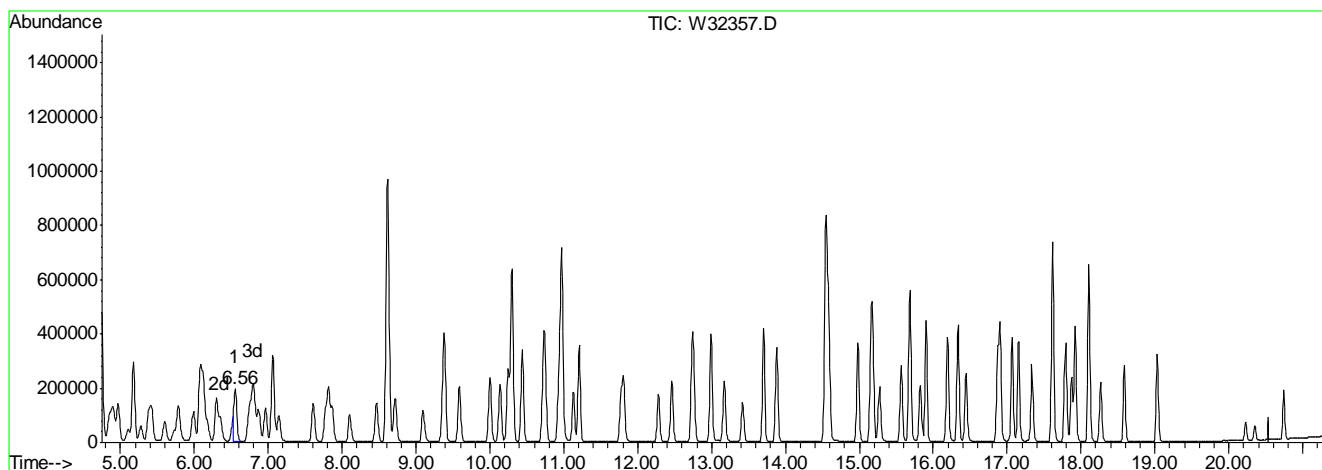
0.00	0.70	0.76#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32357.D Vial: 2
 Acq On : 21 Jun 2011 8:40 pm Operator: YOUMINH
 Sample : IC1322-5.0 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 4.93PPBV m

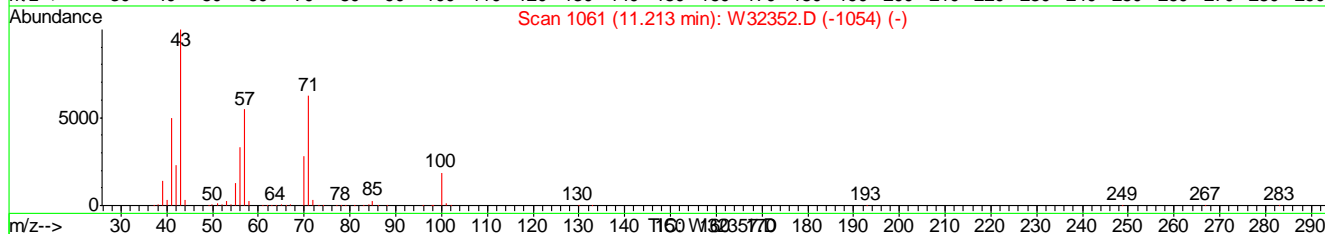
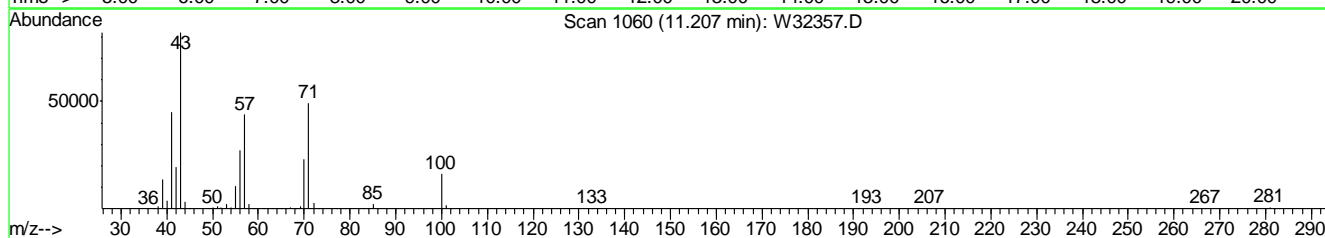
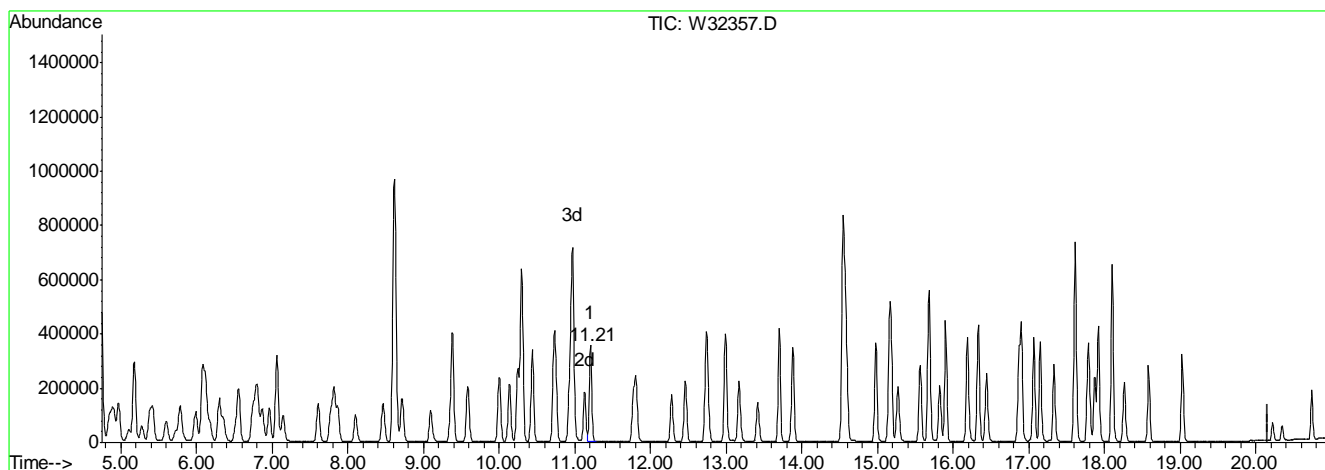
response 526159

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	1.51#
0.00	1.10	1.16#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32357.D Vial: 2
 Acq On : 21 Jun 2011 8:40 pm Operator: YOUMINH
 Sample : IC1322-5.0 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 5.19PPBV m

response 807071

Signal Exp% Act%

TIC 100 100

0.00 0.90 0.98#

0.00 0.70 0.76#

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32359.D Vial: 4
 Acq On : 21 Jun 2011 10:00 pm Operator: YOUMINH
 Sample : IC1322-0.04 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:28 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.61	128	141897	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	729611	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.54	82	330760	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.54	82	329224	10.00	PPBV	0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 16.19 95 169330 4.74 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 94.80%

Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.97	85	1526	0.04	PPBV	97
6) PROPYLENE	4.92	41	864	0.05	PPBV	88
7) FREON 114	5.17	85	1772	0.04	PPBV	100
9) VINYL CHLORIDE	5.28	62	651	0.03	PPBV	76
10) 1,3-BUTADIENE	5.37	54	614	0.04	PPBV #	35
12) BROMOMETHANE	5.61	94	536	0.03	PPBV #	30
13) CHLOROETHANE	5.73	64	381	0.04	PPBV #	49
14) DICHLOROFLUOROMETHANE	5.79	67	1390	0.04	PPBV #	83
16) FREON 123	6.08	83	1519	0.04	PPBV #	92
17) FREON 123A	6.13	117	865	0.04	PPBV	90
18) TRICHLOROFLUOROMETHANE	6.31	101	1562	0.04	PPBV	93
22) PENTANE	6.57	57	254	0.04	PPBV #	74
24) IODOMETHANE	6.75	142	1400	0.03	PPBV	97
26) CARBON DISULFIDE	7.14	76	1495	0.03	PPBV	97
28) ACETONITRILE	5.98	41	707	0.05	PPBV #	1
29) BROMOETHENE	5.99	106	576	0.03	PPBV #	91
31) 3-CHLOROPROPENE	6.96	76	269	0.03	PPBV #	58
32) FREON 113	7.06	151	1067	0.04	PPBV	94
33) TRANS-1,2-DICHLOROETHYLENE	7.60	96	589	0.04	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.87	59	1300m	0.03	PPBV	
35) METHYL TERTIARY BUTYL ETHER	7.84	73	1622	0.03	PPBV	84
36) TETRAHYDROFURAN	9.14	72	226	0.03	PPBV #	53
37) HEXANE	8.62	57	1213	0.04	PPBV	86
39) 1,1-DICHLOROETHANE	7.77	63	1138	0.03	PPBV	87
40) METHYL ETHYL KETONE	8.12	72	250	0.03	PPBV #	68
41) cis-1,2-DICHLOROETHYLENE	8.46	96	810	0.04	PPBV #	72
42) DI-ISOPROPYL ETHER	8.62	45	2324	0.04	PPBV	94
44) METHYL ACRYLATE	8.64	55	1187	0.04	PPBV #	79
45) CHLOROFORM	8.72	83	1124	0.03	PPBV #	87
46) 2,4-DIMETHYLPENTANE	9.38	57	1303	0.04	PPBV	93
47) 1,1,1-TRICHLOROETHANE	9.59	97	1153	0.03	PPBV	95
48) CARBON TETRACHLORIDE	10.13	117	1192	0.04	PPBV	98
49) 1,2-DICHLOROETHANE	9.37	62	599	0.03	PPBV #	78
51) BENZENE	9.99	78	1980	0.04	PPBV	95
52) CYCLOHEXANE	10.24	84	1097	0.04	PPBV #	2
53) 2,3-DIMETHYLPENTANE	10.43	71	478	0.03	PPBV #	76
54) TRICHLOROETHYLENE	10.96	95	756	0.03	PPBV	90
55) DIBROMOMETHANE	10.73	174	693	0.04	PPBV #	52
56) 1,2-DICHLOROPROPANE	10.75	63	795	0.04	PPBV	78
57) ETHYL ACRYLATE	10.73	55	1226	0.03	PPBV #	76

(#) = qualifier out of range (m) = manual integration

W32359.D MW1322.M Thu Sep 01 12:11:10 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32359.D Vial: 4
 Acq On : 21 Jun 2011 10:00 pm Operator: YOUMINH
 Sample : IC1322-0.04 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:28 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

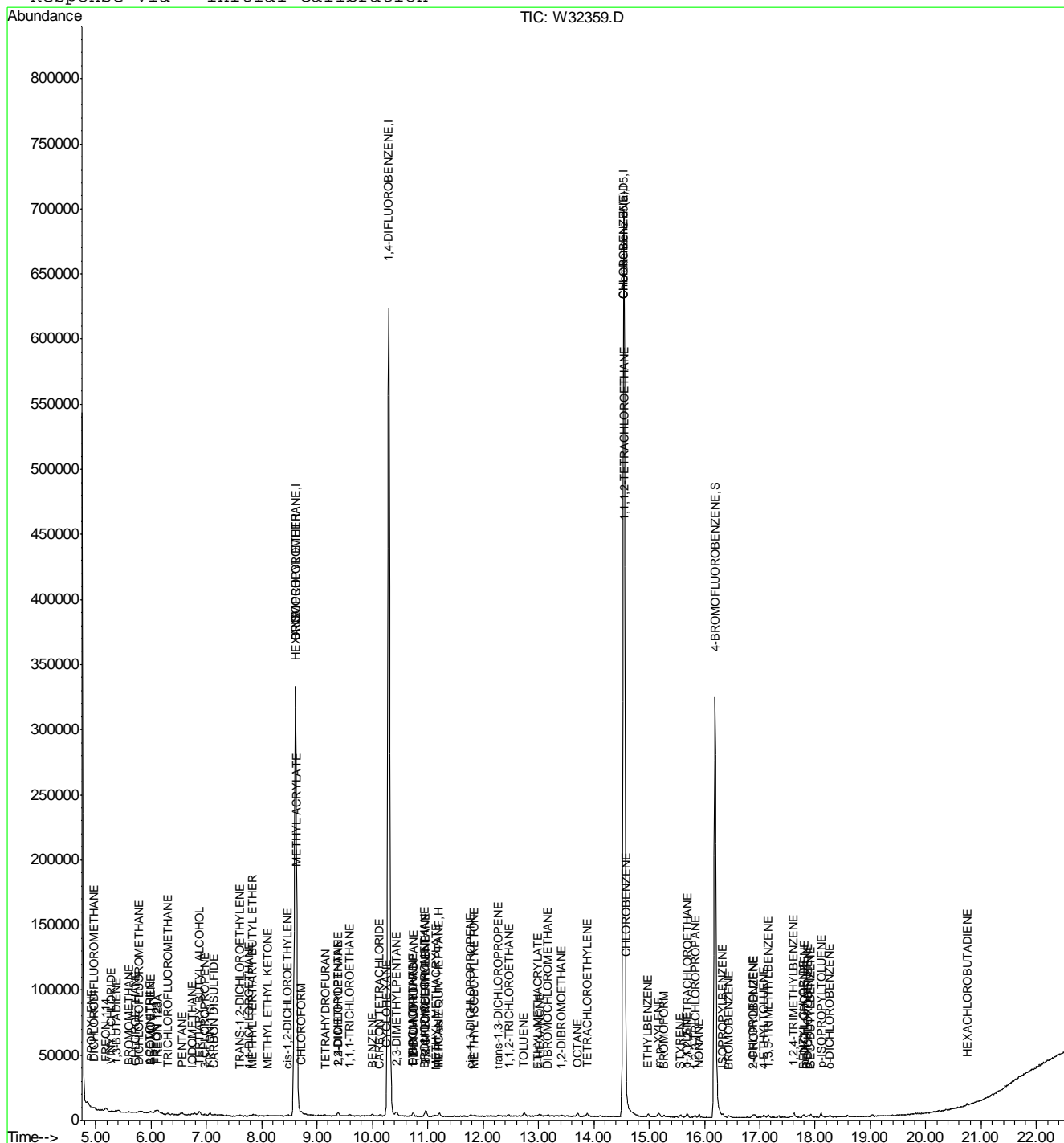
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
58) BROMODICHLOROMETHANE	10.93	83	1172	0.03	PPBV	98
59) 2,2,4-TRIMETHYLPENTANE	10.96	57	3420	0.04	PPBV	98
61) METHYL METHACRYLATE	11.15	69	584	0.03	PPBV #	76
62) HEPTANE	11.21	43	1498	0.04	PPBV	84
63) TVHC as EQUIV HEPTANE	11.21	TIC	6250m	0.04	PPBV	
64) METHYL ISOBUTYL KETONE	11.84	43	1428	0.04	PPBV #	66
65) cis-1,3-DICHLOROPROPENE	11.77	75	951	0.03	PPBV	86
66) TOLUENE	12.74	92	1348	0.04	PPBV	96
67) trans-1,3-DICHLOROPROPENE	12.28	75	885	0.03	PPBV #	78
68) 1,1,2-TRICHLOROETHANE	12.46	83	492	0.03	PPBV #	86
70) ETHYL METHACRYLATE	12.99	69	767	0.03	PPBV #	85
71) 2-HEXANONE	13.02	43	1362	0.04	PPBV	75
72) TETRACHLOROETHYLENE	13.88	164	798	0.04	PPBV	93
73) DIBROMOCHLOROMETHANE	13.17	129	1007	0.03	PPBV	89
74) 1,2-DIBROMOETHANE	13.41	107	795	0.03	PPBV #	88
75) OCTANE	13.70	43	1617	0.04	PPBV #	82
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	729	0.03	PPBV #	61
77) CHLOROBENZENE	14.58	112	1461	0.04	PPBV #	44
78) ETHYLBENZENE	14.98	91	2296	0.03	PPBV	95
79) m,p-XYLENE	15.16	106	1635	0.06	PPBV #	86
80) o-XYLENE	15.68	106	807	0.03	PPBV	98
81) STYRENE	15.57	104	1114	0.03	PPBV	96
82) 1,2,3-TRICHLOROPROPANE	15.83	75	956	0.04	PPBV #	82
83) NONANE	15.90	43	1308	0.04	PPBV	83
84) BROMOFORM	15.27	173	809	0.03	PPBV	83
86) 1,1,2,2-TETRACHLOROETHANE	15.69	83	937	0.03	PPBV #	95
87) ISOPROPYLBENZENE	16.33	105	2206	0.03	PPBV	96
88) BROMOBENZENE	16.44	156	603	0.03	PPBV	90
89) 2-CHLOROTOLUENE	16.86	126	524	0.03	PPBV #	80
90) n-PROPYLBENZENE	16.90	120	516	0.03	PPBV	71
91) 4-ETHYLTOLUENE	17.07	105	1810	0.03	PPBV	96
92) 1,3,5-TRIMETHYLBENZENE	17.15	105	1533	0.03	PPBV	90
95) 1,2,4-TRIMETHYLBENZENE	17.62	105	1405	0.03	PPBV	93
96) m-DICHLOROBENZENE	17.80	146	913	0.04	PPBV	88
97) BENZYL CHLORIDE	17.78	91	1107	0.04	PPBV	88
98) p-DICHLOROBENZENE	17.88	146	1035	0.04	PPBV	92
99) SEC-BUTYLBENZENE	17.92	134	389	0.03	PPBV	85
100) p-ISOPROPYLTOLUENE	18.11	134	359	0.03	PPBV	78
101) o-DICHLOROBENZENE	18.27	146	934	0.04	PPBV	95
104) HEXACHLOROBUTADIENE	20.75	225	283	0.03	PPBV #	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 W32359.D MW1322.M Thu Sep 01 12:11:10 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32359.D Vial: 4
Acq On : 21 Jun 2011 10:00 pm Operator: YOUMINH
Sample : IC1322-0.04 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011 Quant Results File: MW1322.RES

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

VW1322-IC1322

Lab FileID:

W32359.D

Injection Time:

06/21/11 22:00

Method:

TO-15

Analyst approved:

06/23/11 10:14 Youmin Hu

Supervisor approved:

06/24/11 08:52 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
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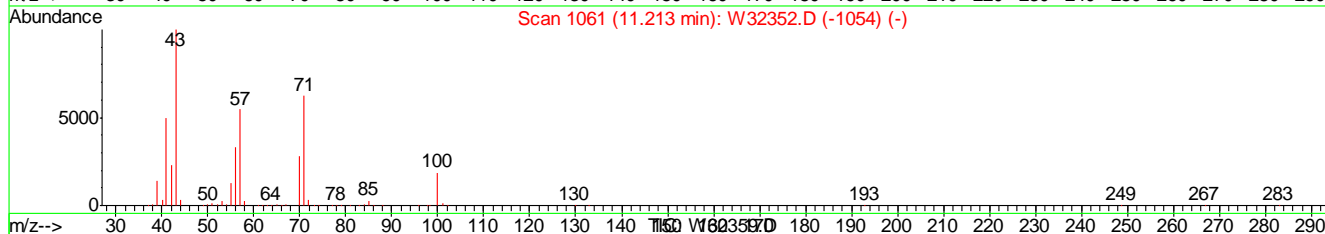
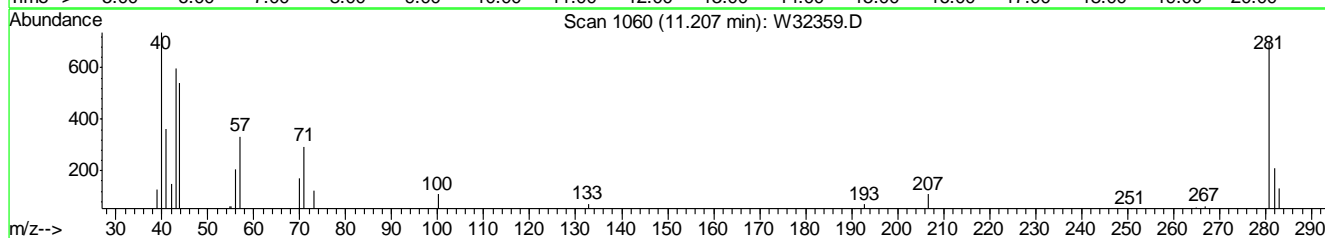
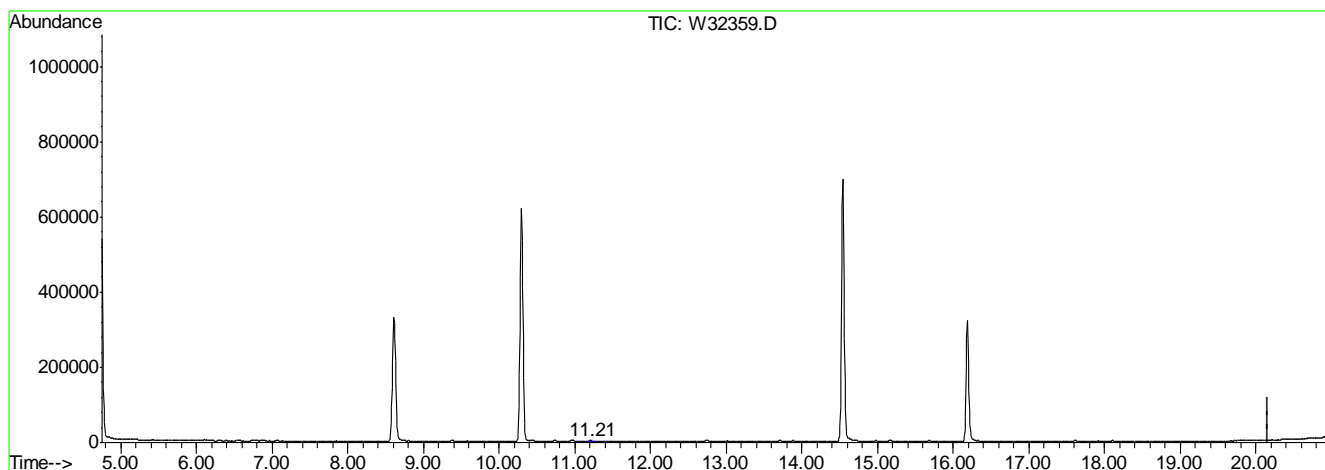
Tertiary Butyl Alcohol	75-65-0		6.87	Poor instrument integration
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6.7.16.1
6

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32359.D Vial: 4
 Acq On : 21 Jun 2011 10:00 pm Operator: YOUMINH
 Sample : IC1322-0.04 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 0.04PPBV m

response 6250

Signal Exp% Act%

TIC 100 100

0.00 0.90 0.61#

0.00 0.70 0.35#

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32360.D Vial: 2
 Acq On : 21 Jun 2011 10:40 pm Operator: YOUMINH
 Sample : IC1322-40 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:31 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.62	128	144315	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	730116	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.55	82	384708	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.55	82	384391	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.20	95	205219	4.94	PPBV	0.00
Spiked Amount	5.000	Range	65 - 128	Recovery	=	98.80%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.87	67	163617	38.86	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.96	85	1639695	38.68	PPBV	99
6) PROPYLENE	4.90	41	663589	36.79	PPBV	99
7) FREON 114	5.17	85	1930171	38.85	PPBV	100
8) CHLOROMETHANE	5.10	52	214503	39.09	PPBV	91
9) VINYL CHLORIDE	5.27	62	759921	39.99	PPBV	100
10) 1,3-BUTADIENE	5.37	54	612694	38.50	PPBV	100
11) n-BUTANE	5.42	43	1213717	35.69	PPBV	100
12) BROMOMETHANE	5.59	94	632321	38.85	PPBV	99
13) CHLOROETHANE	5.71	64	432321	39.66	PPBV	98
14) DICHLOROFLUOROMETHANE	5.78	67	1489256	38.52	PPBV	100
15) ACROLEIN	6.07	56	299033	36.20	PPBV	100
16) FREON 123	6.07	83	1587892	38.33	PPBV #	100
17) FREON 123A	6.12	117	951801	38.41	PPBV	100
18) TRICHLOROFLUOROMETHANE	6.29	101	1497017	36.98	PPBV	100
19) ISOPROPYL ALCOHOL	6.35	45	1349636	37.13	PPBV	99
20) ACETONE	6.17	58	352811	36.44	PPBV	99
21) ACRYLONITRILE	6.51	53	587688	41.68	PPBV	99
22) PENTANE	6.55	57	210723	35.39	PPBV	99
23) TVHC as EQUIV PENTANE	6.55	TIC	3946551m	36.88	PPBV	
24) IODOMETHANE	6.74	142	1649252	38.36	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.78	96	691918	38.02	PPBV	99
26) CARBON DISULFIDE	7.13	76	1670374	37.98	PPBV	100
27) ETHANOL	5.81	45	326633	35.37	PPBV	99
28) ACETONITRILE	5.97	41	605531	39.57	PPBV	98
29) BROMOETHENE	5.98	106	656011	38.79	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	616527	35.32	PPBV	97
31) 3-CHLOROPROPENE	6.96	76	352336	40.24	PPBV	97
32) FREON 113	7.06	151	1152747	38.56	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.60	96	663742	38.86	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.81	59	1565791	37.44	PPBV	99
35) METHYL TERTIARY BUTYL ETHER	7.81	73	1961484	40.29	PPBV	100
36) TETRAHYDROFURAN	9.09	72	363020	41.14	PPBV	99
37) HEXANE	8.62	57	1121994	35.70	PPBV	99
38) VINYL ACETATE	7.87	86	200018	43.50	PPBV #	95
39) 1,1-DICHLOROETHANE	7.77	63	1269686	38.38	PPBV	99
40) METHYL ETHYL KETONE	8.10	72	364200	42.08	PPBV #	90
41) cis-1,2-DICHLOROETHYLENE	8.47	96	728231	37.61	PPBV	99
42) DI-ISOPROPYL ETHER	8.61	45	2379157	36.60	PPBV	98
43) ETHYL ACETATE	8.63	61	216141	38.61	PPBV #	83

(#) = qualifier out of range (m) = manual integration

W32360.D MW1322.M Thu Sep 01 12:11:12 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32360.D Vial: 2
 Acq On : 21 Jun 2011 10:40 pm Operator: YOUMINH
 Sample : IC1322-40 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:31 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) METHYL ACRYLATE	8.63	55	1280361	38.88	PPBV	99
45) CHLOROFORM	8.72	83	1301534	38.61	PPBV	100
46) 2,4-DIMETHYLPENTANE	9.38	57	1421332	38.17	PPBV	99
47) 1,1,1-TRICHLOROETHANE	9.59	97	1299937	38.73	PPBV	100
48) CARBON TETRACHLORIDE	10.14	117	1324472	38.51	PPBV	100
49) 1,2-DICHLOROETHANE	9.37	62	765625	39.31	PPBV	100
51) BENZENE	10.01	78	2216466	39.80	PPBV	100
52) CYCLOHEXANE	10.25	84	1036304	36.88	PPBV	96
53) 2,3-DIMETHYLPENTANE	10.45	71	549383	39.57	PPBV	97
54) TRICHLOROETHYLENE	10.97	95	838527	38.73	PPBV	100
55) DIBROMOMETHANE	10.74	174	787738	40.00	PPBV	100
56) 1,2-DICHLOROPROPANE	10.76	63	789247	37.64	PPBV	99
57) ETHYL ACRYLATE	10.73	55	1497695	41.27	PPBV	99
58) BROMODICHLOROMETHANE	10.94	83	1350872	39.28	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.98	57	3468466	36.21	PPBV	99
60) 1,4-DIOXANE	10.99	88	460799	40.75	PPBV #	68
61) METHYL METHACRYLATE	11.14	69	797416	41.93	PPBV	99
62) HEPTANE	11.21	43	1323749	36.95	PPBV	98
63) TVHC as EQUIV HEPTANE	11.21	TIC	5790230m	37.34	PPBV	
64) METHYL ISOBUTYL KETONE	11.82	43	1517125	39.44	PPBV	98
65) cis-1,3-DICHLOROPROPENE	11.78	75	1127421	40.39	PPBV	99
66) TOLUENE	12.74	92	1499110	40.12	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.29	75	1075371	41.54	PPBV	100
68) 1,1,2-TRICHLOROETHANE	12.48	83	677538	41.80	PPBV	99
70) ETHYL METHACRYLATE	13.00	69	1185351	39.99	PPBV	99
71) 2-HEXANONE	13.01	43	1361843	35.81	PPBV	98
72) TETRACHLOROETHYLENE	13.89	164	931136	36.36	PPBV	100
73) DIBROMOCHLOROMETHANE	13.18	129	1318996	38.23	PPBV	100
74) 1,2-DIBROMOETHANE	13.43	107	1108493	38.63	PPBV	100
75) OCTANE	13.71	43	1704888	34.99	PPBV	97
76) 1,1,1,2-TETRACHLOROETHANE	14.58	131	954493	37.47	PPBV #	100
77) CHLOROBENZENE	14.60	112	1756820	37.04	PPBV	99
78) ETHYLBENZENE	14.99	91	2917588	38.17	PPBV	99
79) m,p-XYLENE	15.19	106	2276408	76.76	PPBV	97
80) o-XYLENE	15.69	106	1092014	38.13	PPBV	98
81) STYRENE	15.58	104	1686928	41.53	PPBV	100
82) 1,2,3-TRICHLOROPROPANE	15.84	75	1046972	37.42	PPBV	99
83) NONANE	15.91	43	1554998	36.68	PPBV	97
84) BROMOFORM	15.29	173	1189143	40.18	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	15.69	83	1294123	38.54	PPBV	100
87) ISOPROPYLBENZENE	16.35	105	3093643	38.37	PPBV	99
88) BROMOBENZENE	16.46	156	858442	40.73	PPBV	99
89) 2-CHLOROTOLUENE	16.88	126	705910	39.22	PPBV #	99
90) n-PROPYLBENZENE	16.91	120	823607	41.42	PPBV	93
91) 4-ETHYLTOLUENE	17.08	105	2765033	41.24	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	2185924	39.43	PPBV	100
93) ALPHA-METHYLSTYRENE	17.35	118	1049256	42.54	PPBV	100
94) TERT-BUTYLBENZENE	17.62	134	570834	39.02	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.63	105	2039749	40.15	PPBV	98

(#) = qualifier out of range (m) = manual integration

W32360.D MW1322.M Thu Sep 01 12:11:12 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32360.D Vial: 2
Acq On : 21 Jun 2011 10:40 pm Operator: YOUMINH
Sample : IC1322-40 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 22 11:06:31 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:04:41 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

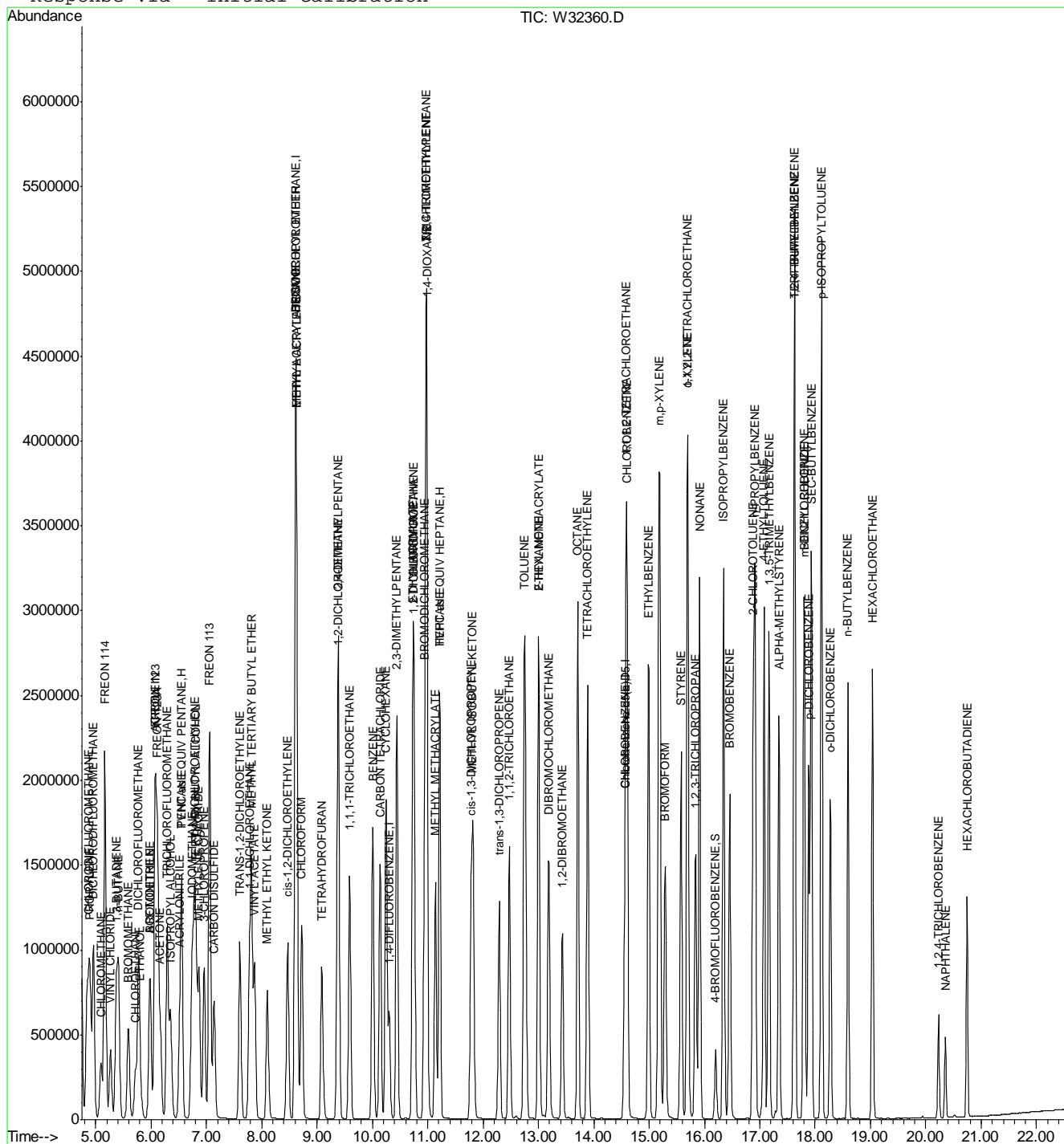
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) m-DICHLOROBENZENE	17.81	146	1276349	42.42	PPBV	100
97) BENZYL CHLORIDE	17.79	91	1605312	44.78	PPBV	99
98) p-DICHLOROBENZENE	17.88	146	1223478	41.23	PPBV	99
99) SEC-BUTYLBENZENE	17.93	134	667401	40.62	PPBV	94
100) p-ISOPROPYLTOLUENE	18.11	134	644272	41.16	PPBV	96
101) o-DICHLOROBENZENE	18.27	146	1093670	40.39	PPBV	100
102) n-BUTYLBENZENE	18.60	134	531621	45.22	PPBV	95
103) HEXACHLOROETHANE	19.03	201	692478	42.34	PPBV	98
104) HEXACHLOROBUTADIENE	20.74	225	327060	34.51	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.23	180	260014	40.09	PPBV	99
107) NAPHTHALENE	20.35	128	473002	41.09	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32360.D MW1322.M Thu Sep 01 12:11:12 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32360.D Vial: 2
Acq On : 21 Jun 2011 10:40 pm Operator: YOUMINH
Sample : IC1322-40 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011 Quant Results File: MW1322.RES

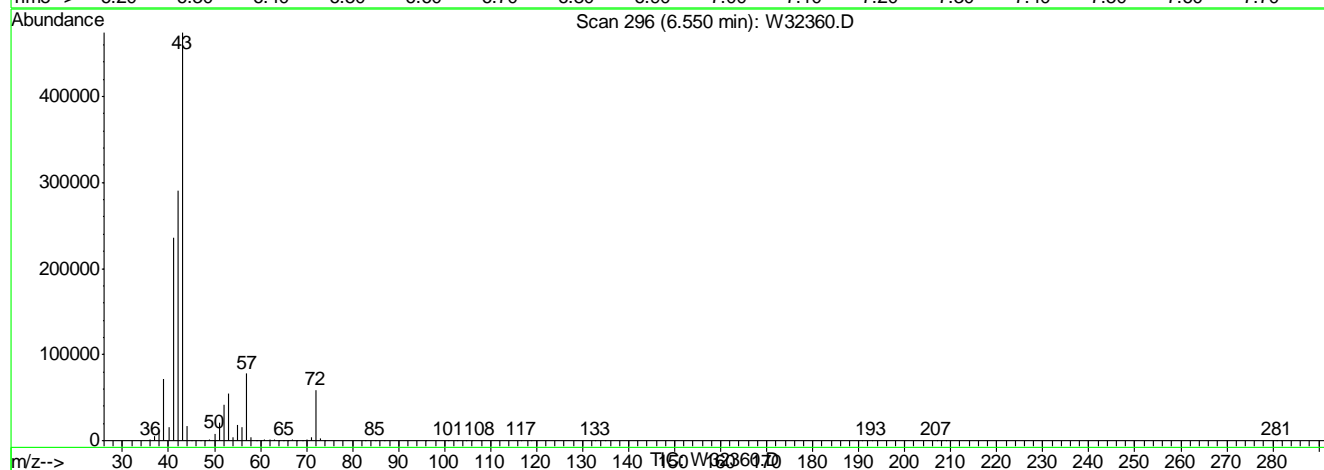
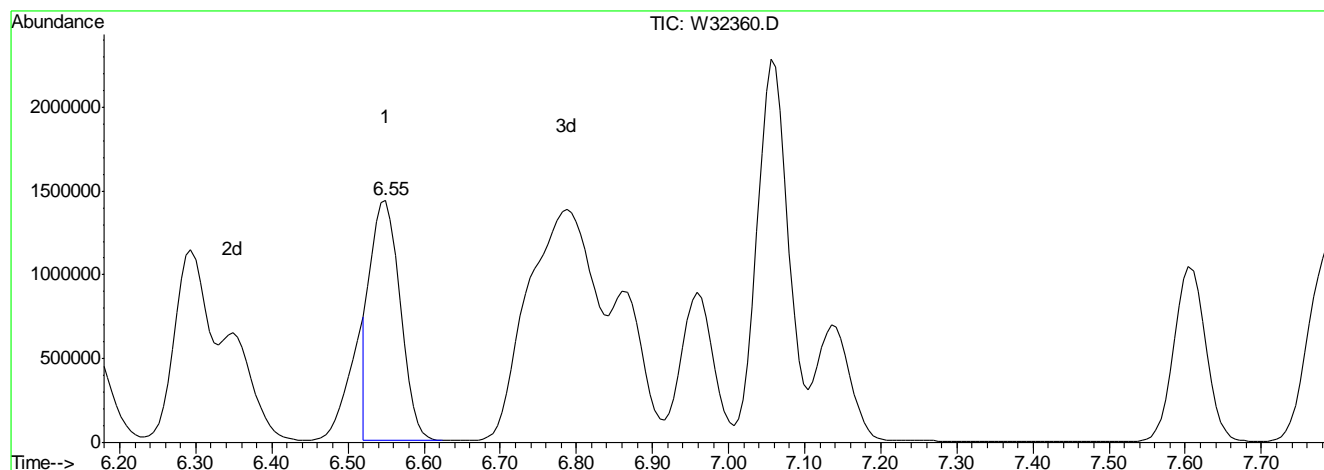
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32360.D Vial: 2
Acq On : 21 Jun 2011 10:40 pm Operator: YOUMINH
Sample : IC1322-40 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.55min 36.88PPBV m

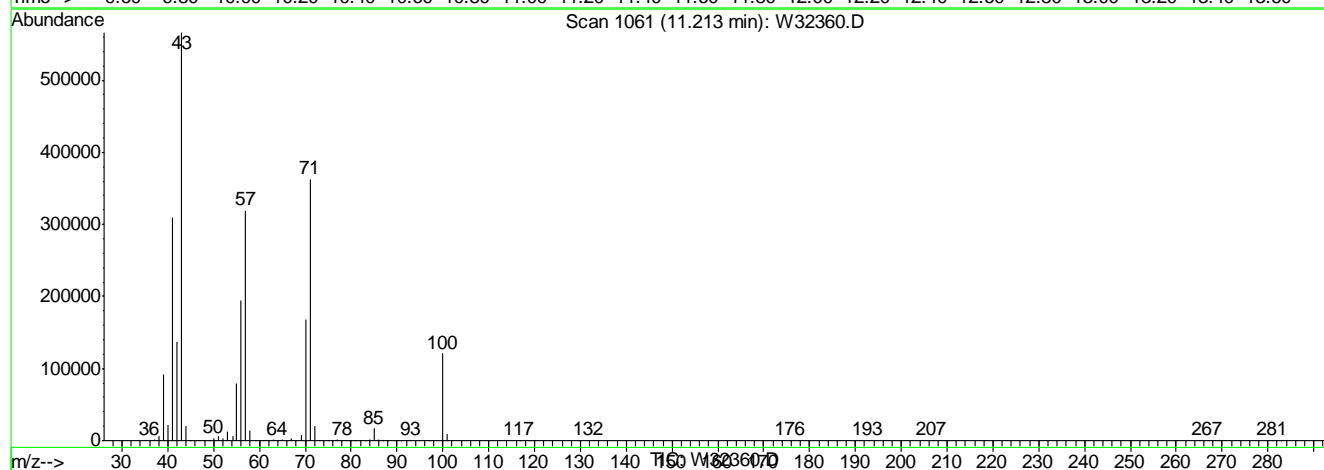
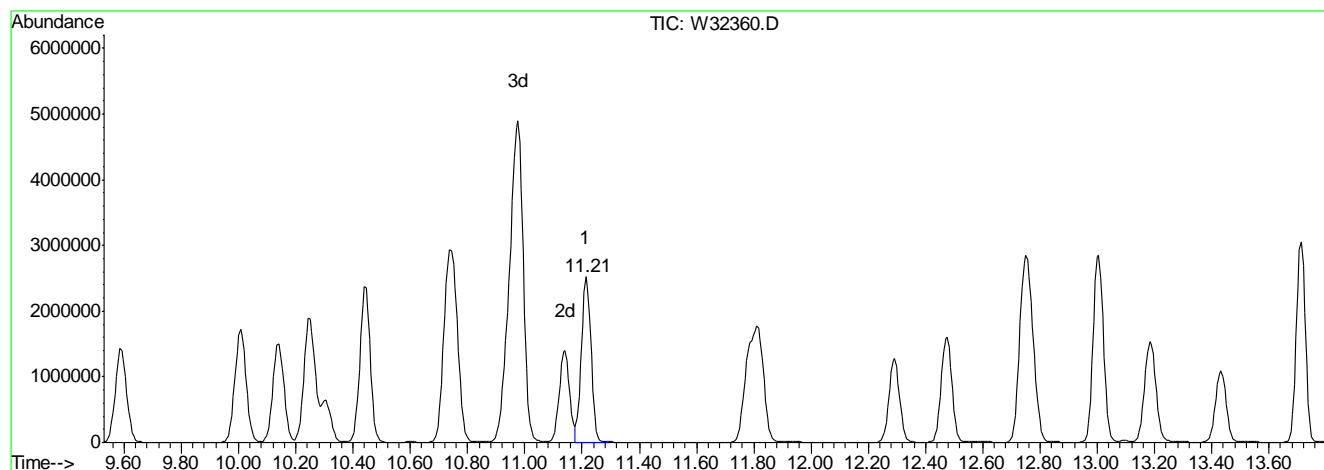
response 3946551

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	1.66#
0.00	1.10	1.30#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32360.D Vial: 2
Acq On : 21 Jun 2011 10:40 pm Operator: YOUMINH
Sample : IC1322-40 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 37.34PPBV m

response 5790230

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	0.90	1.13#
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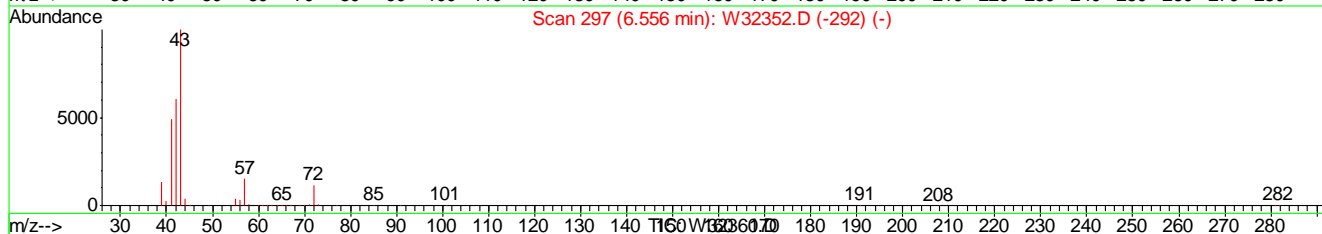
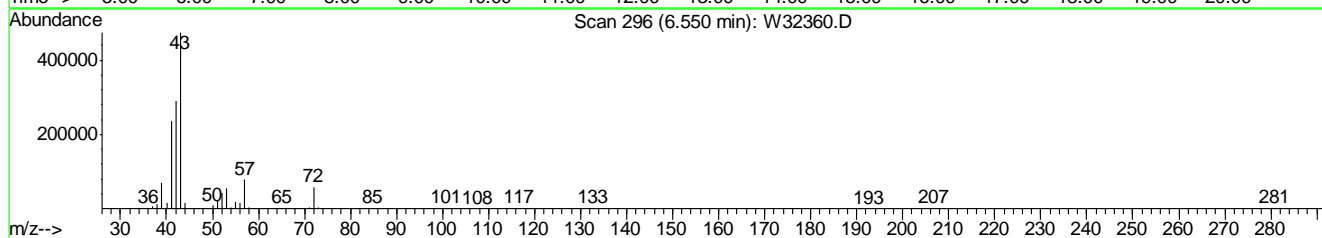
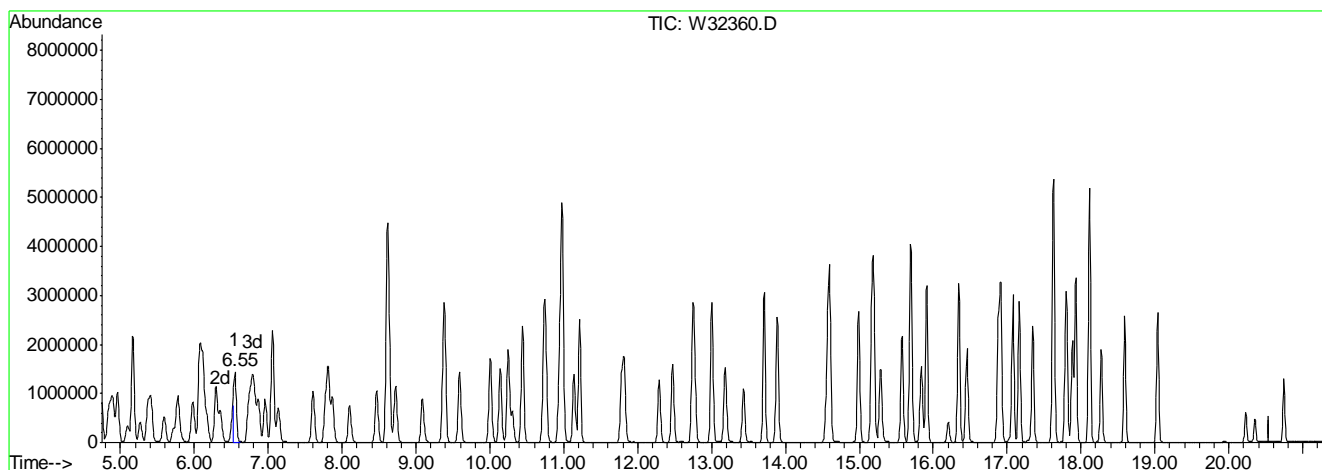
0.00	0.70	0.88#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32360.D Vial: 2
 Acq On : 21 Jun 2011 10:40 pm Operator: YOUMINH
 Sample : IC1322-40 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.55min 36.88PPBV m

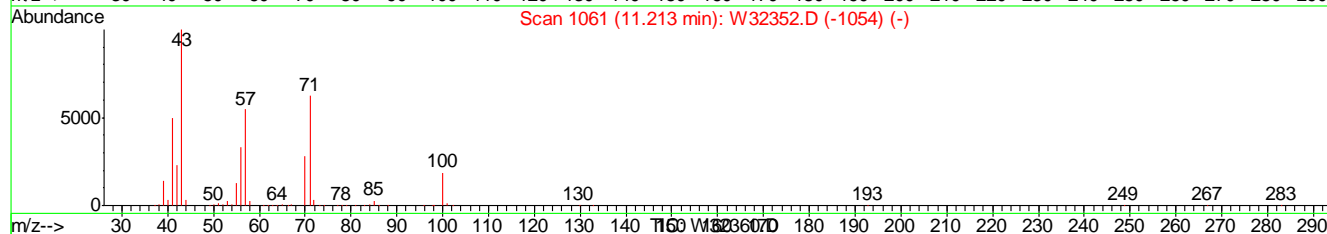
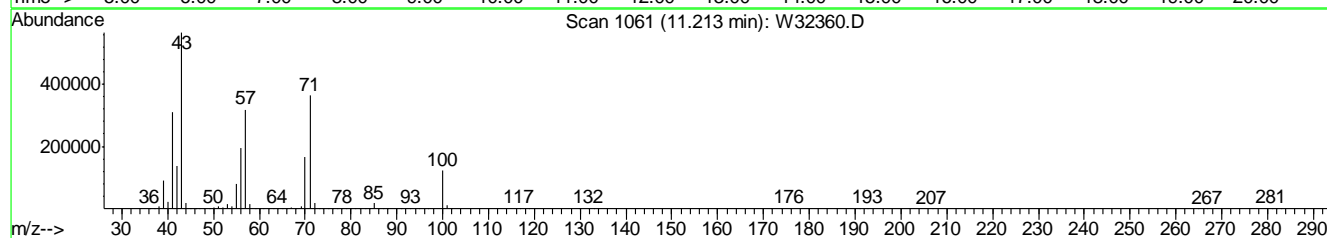
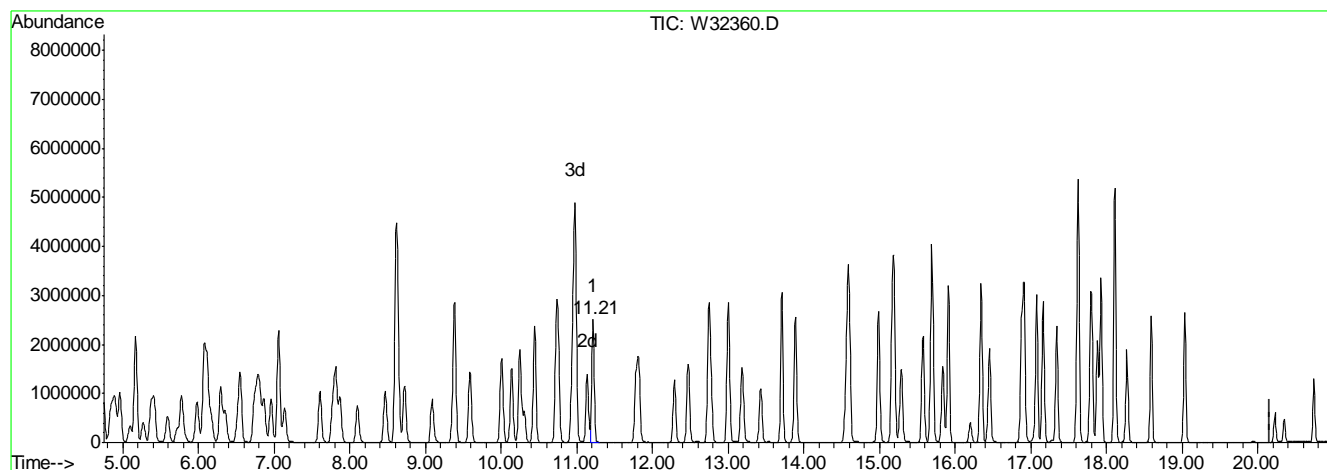
response 3946551

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	1.66#
0.00	1.10	1.30#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32360.D Vial: 2
Acq On : 21 Jun 2011 10:40 pm Operator: YOUMINH
Sample : IC1322-40 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 37.34PPBV m

response 5790230

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	1.13#
------	------	-------

0.00	0.70	0.88#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32364.D Vial: 1
 Acq On : 22 Jun 2011 9:56 am Operator: YOUMINH
 Sample : IC1322-0.2 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:42 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.61	128	150155	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.29	114	752387	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.54	82	344093	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.54	82	342166	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.19 95 181127 4.87 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 97.40%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	4.88	67	840	0.19	PPBV	91
5) DICHLORODIFLUOROMETHANE	4.96	85	8345	0.19	PPBV	99
6) PROPYLENE	4.91	41	3663	0.20	PPBV	94
7) FREON 114	5.18	85	9650	0.19	PPBV	99
8) CHLOROMETHANE	5.11	52	1146	0.20	PPBV #	66
9) VINYL CHLORIDE	5.29	62	3566	0.18	PPBV	99
10) 1,3-BUTADIENE	5.39	54	3147	0.19	PPBV #	78
11) n-BUTANE	5.42	43	6401	0.18	PPBV #	93
12) BROMOMETHANE	5.60	94	3188	0.19	PPBV	88
13) CHLOROETHANE	5.72	64	2134	0.19	PPBV	94
14) DICHLOROFLUOROMETHANE	5.78	67	7561	0.19	PPBV	98
15) ACROLEIN	6.08	56	1659	0.19	PPBV #	67
16) FREON 123	6.08	83	7958	0.18	PPBV #	99
17) FREON 123A	6.12	117	4909	0.19	PPBV	100
18) TRICHLOROFLUOROMETHANE	6.30	101	8095	0.19	PPBV	99
19) ISOPROPYL ALCOHOL	6.37	45	7596	0.20	PPBV	99
20) ACETONE	6.18	58	2129	0.21	PPBV	92
21) ACRYLONITRILE	6.51	53	2690	0.18	PPBV	97
22) PENTANE	6.56	57	1185	0.19	PPBV #	87
23) TVHC as EQUIV PENTANE	6.56	TIC	22519m	0.20	PPBV	
24) IODOMETHANE	6.74	142	8517	0.19	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.79	96	3720	0.20	PPBV	95
26) CARBON DISULFIDE	7.15	76	8699	0.19	PPBV	92
28) ACETONITRILE	5.98	41	2810	0.18	PPBV #	42
29) BROMOETHENE	5.99	106	3288	0.19	PPBV #	98
30) METHYLENE CHLORIDE	6.88	84	4300	0.24	PPBV	96
31) 3-CHLOROPROPENE	6.96	76	1697	0.19	PPBV #	86
32) FREON 113	7.06	151	5754	0.18	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	3535	0.20	PPBV	94
34) TERTIARY BUTYL ALCOHOL	6.85	59	8028	0.18	PPBV	89
35) METHYL TERTIARY BUTYL ETHER	7.83	73	8828	0.17	PPBV	93
36) TETRAHYDROFURAN	9.12	72	1568	0.17	PPBV #	84
37) HEXANE	8.62	57	6169	0.19	PPBV	93
38) VINYL ACETATE	7.88	86	725	0.15	PPBV #	40
39) 1,1-DICHLOROETHANE	7.77	63	6482	0.19	PPBV	100
40) METHYL ETHYL KETONE	8.12	72	1610	0.18	PPBV #	84
41) cis-1,2-DICHLOROETHYLENE	8.47	96	3643	0.18	PPBV	97
42) DI-ISOPROPYL ETHER	8.62	45	12340	0.18	PPBV	99
43) ETHYL ACETATE	8.64	61	1059	0.18	PPBV #	89
44) METHYL ACRYLATE	8.63	55	6144	0.18	PPBV	99

(#) = qualifier out of range (m) = manual integration

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32364.D Vial: 1
 Acq On : 22 Jun 2011 9:56 am Operator: YOUMINH
 Sample : IC1322-0.2 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:06:42 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) CHLOROFORM	8.71	83	6673	0.19	PPBV	97
46) 2,4-DIMETHYLPENTANE	9.38	57	7320	0.19	PPBV	98
47) 1,1,1-TRICHLOROETHANE	9.59	97	6609	0.19	PPBV	99
48) CARBON TETRACHLORIDE	10.13	117	6813	0.19	PPBV	99
49) 1,2-DICHLOROETHANE	9.36	62	3758	0.19	PPBV	99
51) BENZENE	10.00	78	10727	0.19	PPBV	99
52) CYCLOHEXANE	10.24	84	5708	0.20	PPBV #	74
53) 2,3-DIMETHYLPENTANE	10.43	71	2837	0.20	PPBV	96
54) TRICHLOROETHYLENE	10.96	95	4299	0.19	PPBV	96
55) DIBROMOMETHANE	10.73	174	3910	0.19	PPBV	98
56) 1,2-DICHLOROPROPANE	10.74	63	4075	0.19	PPBV	97
57) ETHYL ACRYLATE	10.73	55	6614	0.18	PPBV #	94
58) BROMODICHLOROMETHANE	10.93	83	6673	0.19	PPBV	99
59) 2,2,4-TRIMETHYLPENTANE	10.97	57	18518	0.19	PPBV	99
60) 1,4-DIOXANE	11.06	88	1760	0.15	PPBV #	1
61) METHYL METHACRYLATE	11.13	69	3364	0.17	PPBV	94
62) HEPTANE	11.21	43	6995	0.19	PPBV	96
63) TVHC as EQUIV HEPTANE	11.21	TIC	30623m	0.19	PPBV	
64) METHYL ISOBUTYL KETONE	11.83	43	7279	0.18	PPBV	96
65) cis-1,3-DICHLOROPROPENE	11.77	75	5438	0.19	PPBV	88
66) TOLUENE	12.74	92	7029	0.18	PPBV	98
67) trans-1,3-DICHLOROPROPENE	12.28	75	4975	0.19	PPBV	93
68) 1,1,2-TRICHLOROETHANE	12.46	83	2973	0.18	PPBV	96
70) ETHYL METHACRYLATE	12.99	69	4826	0.18	PPBV #	96
71) 2-HEXANONE	13.01	43	6422	0.19	PPBV	92
72) TETRACHLOROETHYLENE	13.88	164	4468	0.20	PPBV	98
73) DIBROMOCHLOROMETHANE	13.17	129	5931	0.19	PPBV	98
74) 1,2-DIBROMOETHANE	13.41	107	4883	0.19	PPBV	98
75) OCTANE	13.70	43	8332	0.19	PPBV	94
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	4292	0.19	PPBV #	88
77) CHLOROBENZENE	14.59	112	7935	0.19	PPBV	97
78) ETHYLBENZENE	14.98	91	12385	0.18	PPBV	100
79) m,p-XYLENE	15.17	106	9817	0.37	PPBV #	89
80) o-XYLENE	15.68	106	4696	0.18	PPBV	97
81) STYRENE	15.56	104	6256	0.17	PPBV	99
82) 1,2,3-TRICHLOROPROPANE	15.83	75	4578	0.18	PPBV	96
83) NONANE	15.90	43	6929	0.18	PPBV	95
84) BROMOFORM	15.27	173	4639	0.18	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	15.69	83	5560	0.19	PPBV	97
87) ISOPROPYLBENZENE	16.33	105	13199	0.18	PPBV	99
88) BROMOBENZENE	16.45	156	3328	0.18	PPBV	94
89) 2-CHLOROTOLUENE	16.87	126	2943	0.18	PPBV #	100
90) n-PROPYLBENZENE	16.90	120	3011	0.17	PPBV	78
91) 4-ETHYLTOLUENE	17.07	105	10146	0.17	PPBV	97
92) 1,3,5-TRIMETHYLBENZENE	17.15	105	9071	0.18	PPBV	96
93) ALPHA-METHYLSTYRENE	17.34	118	2937	0.13	PPBV	94
94) TERT-BUTYLBENZENE	17.61	134	2364	0.18	PPBV	98
95) 1,2,4-TRIMETHYLBENZENE	17.61	105	7885	0.17	PPBV	94
96) m-DICHLOROBENZENE	17.80	146	4487	0.17	PPBV	96

(#) = qualifier out of range (m) = manual integration

W32364.D MW1322.M Thu Sep 01 12:11:17 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32364.D Vial: 1
Acq On : 22 Jun 2011 9:56 am Operator: YOUMINH
Sample : IC1322-0.2 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 22 11:06:42 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:04:41 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
97) BENZYL CHLORIDE	17.78	91	5158	0.16	PPBV	97
98) p-DICHLOROBENZENE	17.88	146	4518	0.17	PPBV	96
99) SEC-BUTYLBENZENE	17.92	134	2478	0.17	PPBV	91
100) p-ISOPROPYLTOLUENE	18.10	134	2287	0.16	PPBV	87
101) o-DICHLOROBENZENE	18.26	146	4166	0.17	PPBV	97
102) n-BUTYLBENZENE	18.58	134	1647	0.16	PPBV	97
103) HEXACHLOROETHANE	19.03	201	2350	0.16	PPBV	84
104) HEXACHLOROBUTADIENE	20.74	225	1920	0.23	PPBV	89
105) 1,2,4-TRICHLOROBENZENE	20.23	180	1242	0.21	PPBV	97
107) NAPHTHALENE	20.36	128	1439	0.14	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32364.D MW1322.M Thu Sep 01 12:11:17 2011 MSW

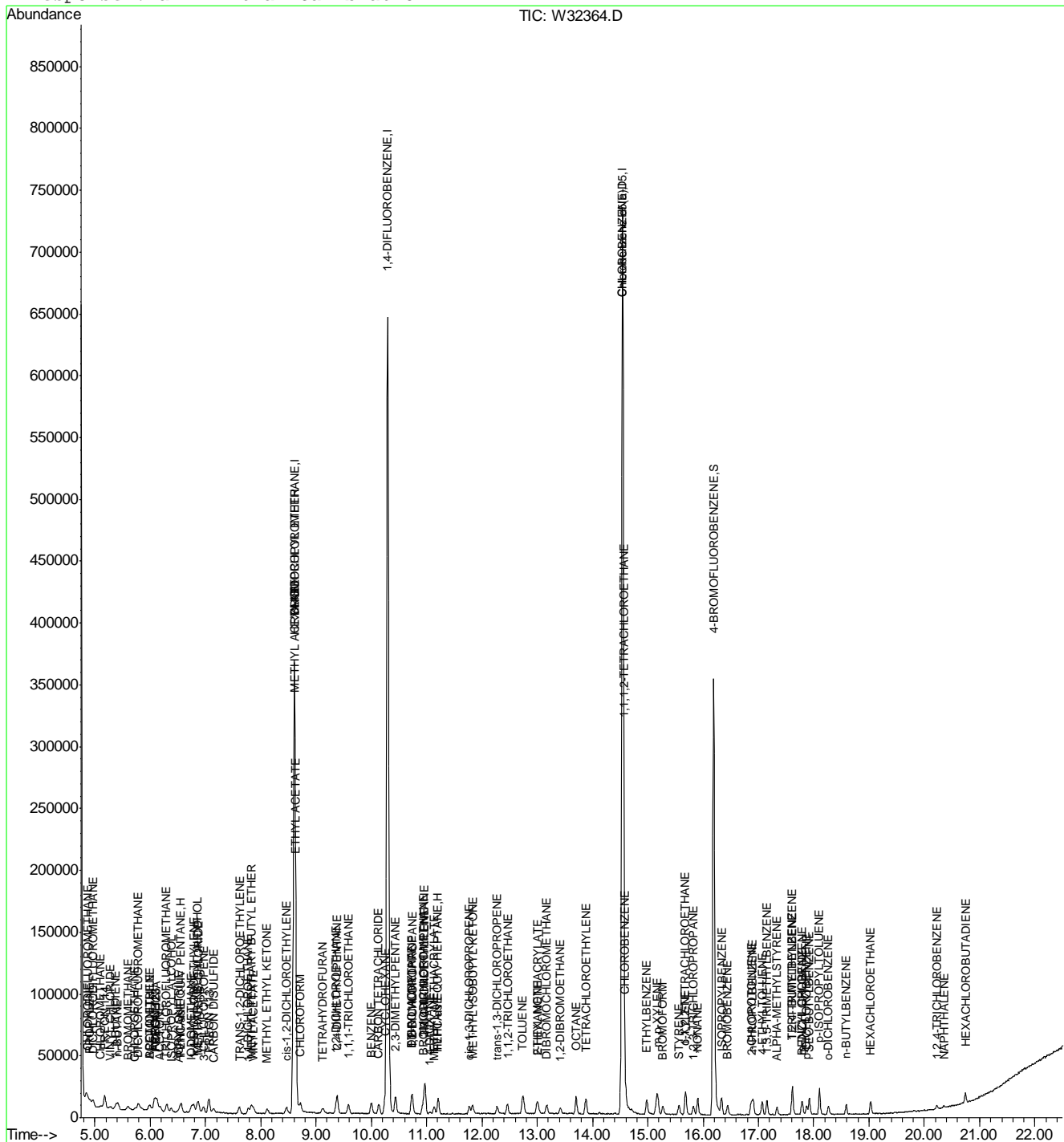
(OT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32364.D          Vial: 1
Acq On    : 22 Jun 2011   9:56 am                            Operator: YOUMINH
Sample    : IC1322-0.2                                         Inst      : MSW
Misc      : MS14116,VW1322,,,,,1                             Multiplr : 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011                                Quant Results File: MW1322.

```

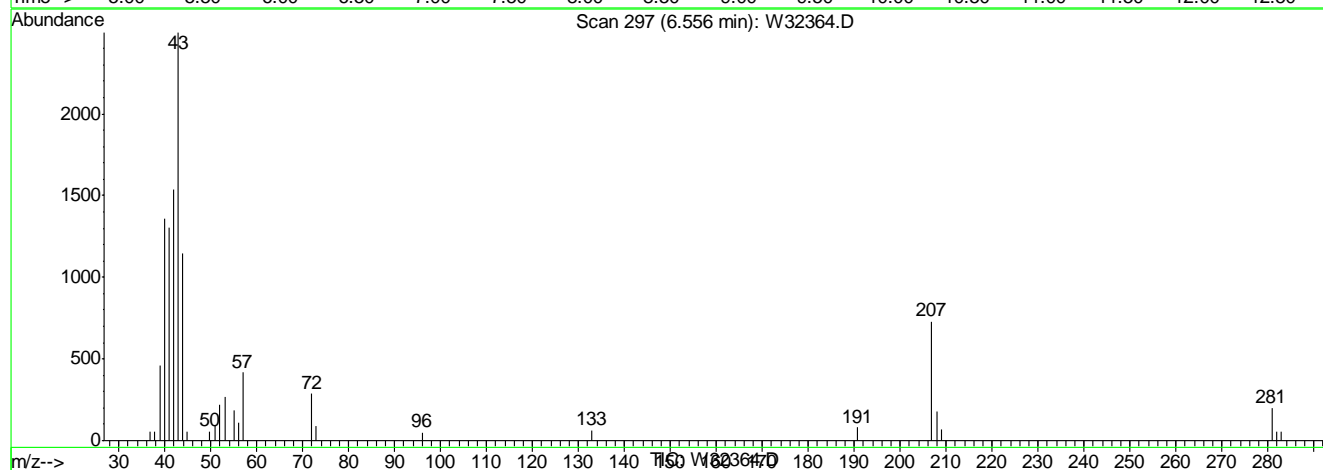
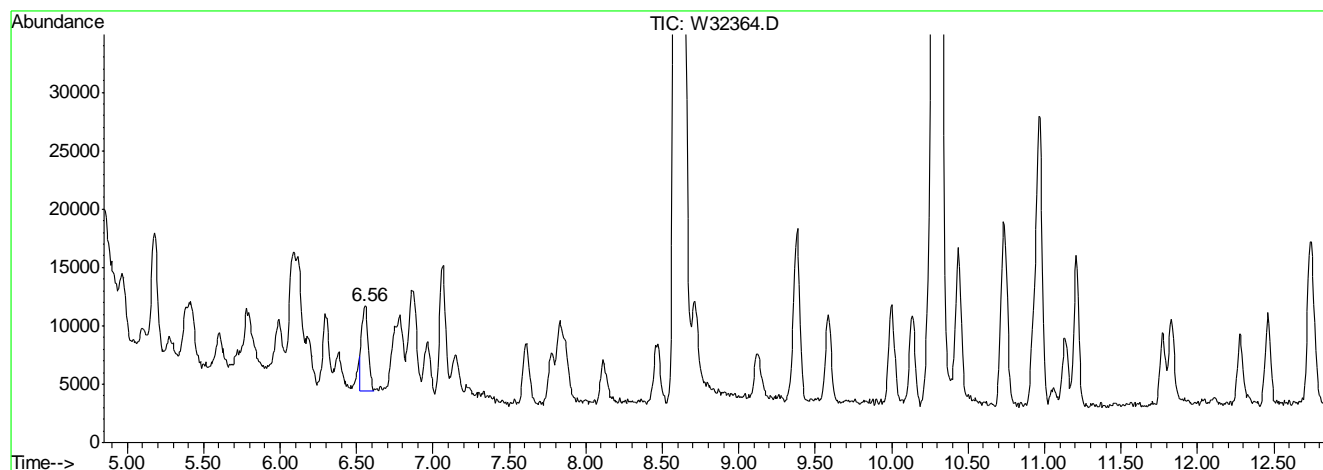
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32364.D Vial: 1
Acq On : 22 Jun 2011 9:56 am Operator: YOUMINH
Sample : IC1322-0.2 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 0.20PPBV m

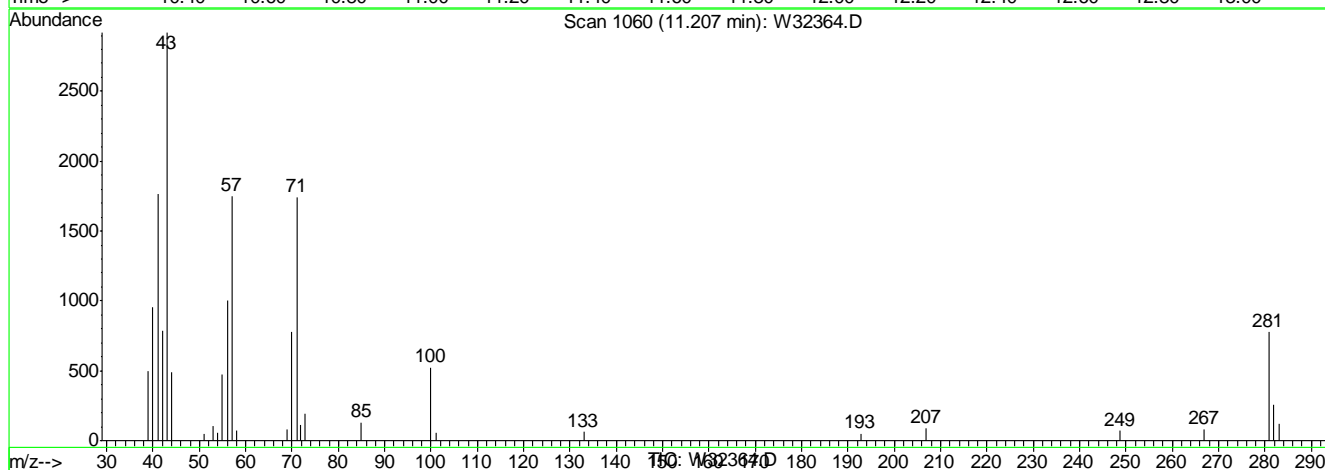
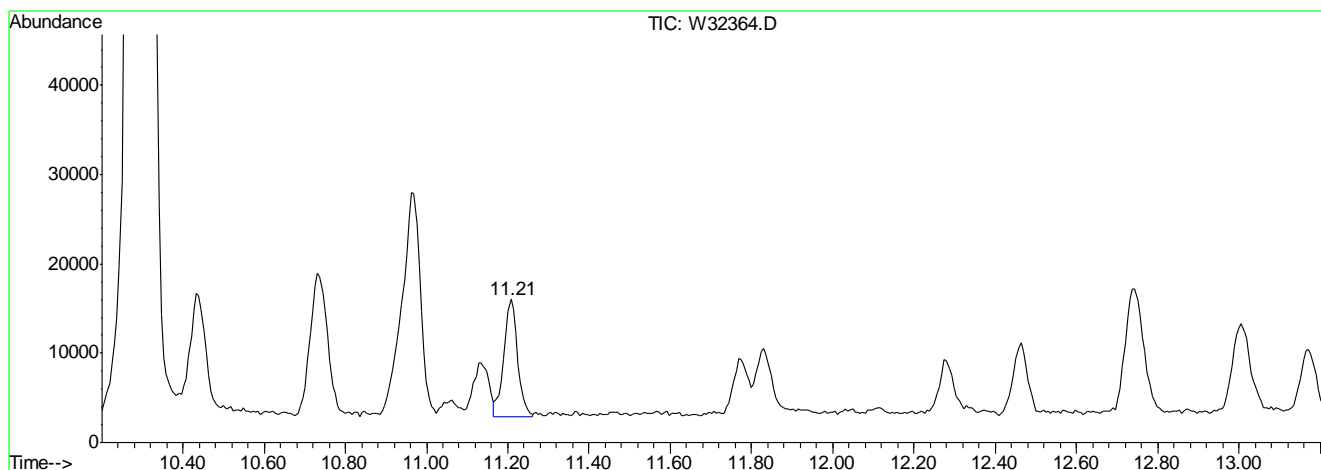
response 22519

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	0.90#
0.00	1.10	0.66#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32364.D Vial: 1
Acq On : 22 Jun 2011 9:56 am Operator: YOUMINH
Sample : IC1322-0.2 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 0.19PPBV m

response 30623

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	0.66#
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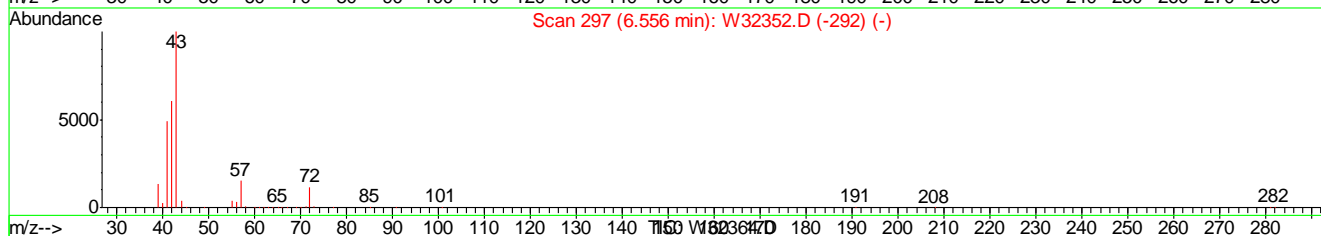
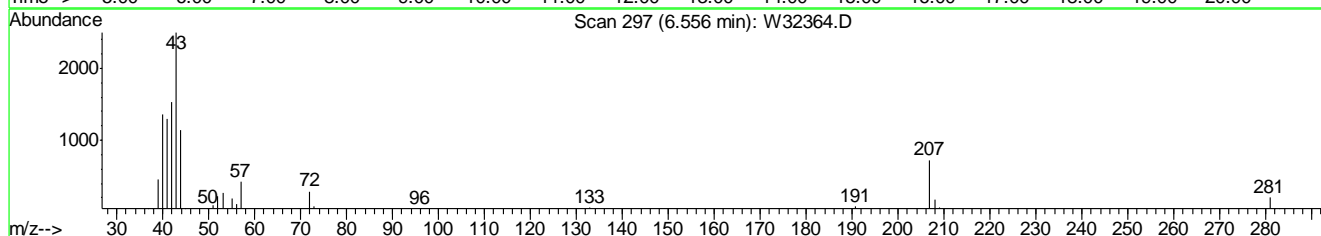
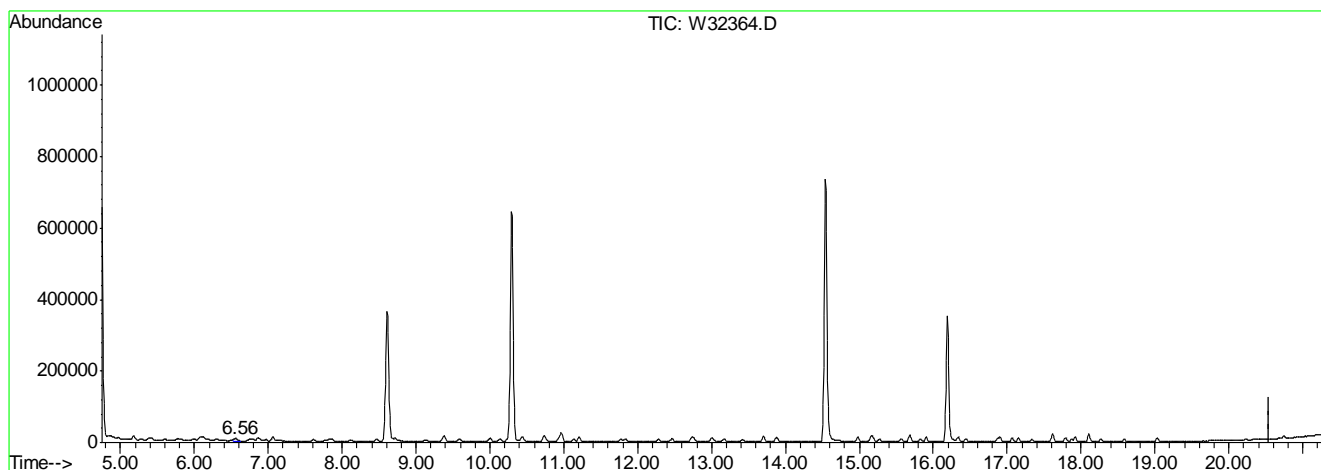
0.00	0.70	0.49#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32364.D Vial: 1
 Acq On : 22 Jun 2011 9:56 am Operator: YOUMINH
 Sample : IC1322-0.2 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 0.20PPBV m

response 22519

Signal Exp% Act%

TIC 100 100

0.00 1.40 0.90#

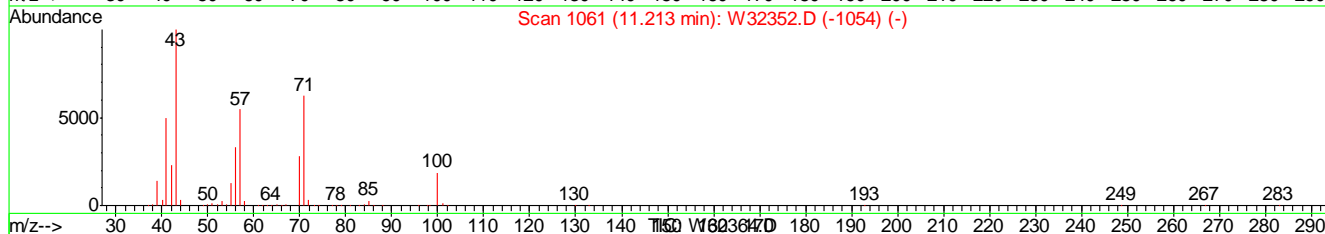
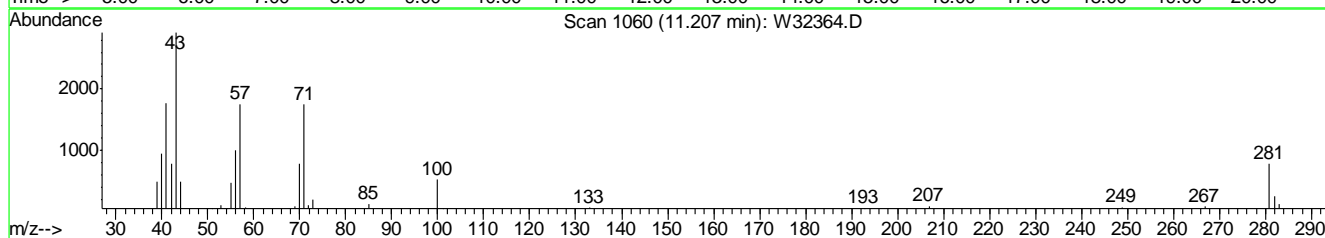
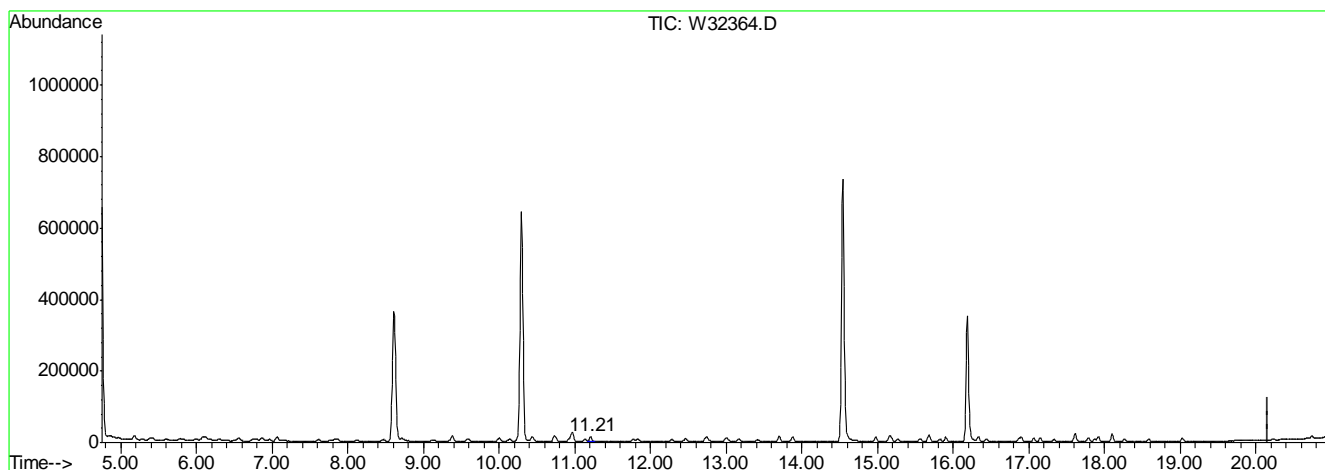
0.00 1.10 0.66#

0.00 0.00 0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32364.D Vial: 1
 Acq On : 22 Jun 2011 9:56 am Operator: YOUMINH
 Sample : IC1322-0.2 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 0.19PPBV m

response 30623

Signal Exp% Act%

TIC 100 100

0.00 0.90 0.66#

0.00 0.70 0.49#

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32365.D Vial: 4
 Acq On : 22 Jun 2011 10:36 am Operator: YOUMINH
 Sample : IC1322-0.1 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:22:02 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.61	128	144028	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.29	114	740621	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.54	82	336405	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.54	82	335267	10.00	PPBV	0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 16.19 95 173759 4.78 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 95.60%

Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	4.97	85	4721	0.11	PPBV	97
6) PROPYLENE	4.92	41	2024	0.11	PPBV #	81
7) FREON 114	5.18	85	5363	0.11	PPBV	99
9) VINYL CHLORIDE	5.28	62	2132	0.11	PPBV	98
10) 1,3-BUTADIENE	5.39	54	1693	0.11	PPBV #	56
12) BROMOMETHANE	5.60	94	1767	0.11	PPBV #	63
13) CHLOROETHANE	5.73	64	1139	0.10	PPBV	96
14) DICHLOROFLUOROMETHANE	5.79	67	4176	0.11	PPBV #	93
16) FREON 123	6.09	83	4405	0.11	PPBV #	99
17) FREON 123A	6.12	117	2646	0.11	PPBV	94
18) TRICHLOROFLUOROMETHANE	6.29	101	4450	0.11	PPBV	96
21) ACRYLONITRILE	6.52	53	1451	0.10	PPBV	93
22) PENTANE	6.56	57	694	0.12	PPBV #	88
23) TVHC as EQUIV PENTANE	6.56	TIC	12508m	0.12	PPBV	
24) IODOMETHANE	6.74	142	4546	0.11	PPBV	99
26) CARBON DISULFIDE	7.15	76	4835	0.11	PPBV	96
28) ACETONITRILE	5.98	41	1497	0.10	PPBV #	1
29) BROMOETHENE	6.00	106	1842	0.11	PPBV #	95
31) 3-CHLOROPROPENE	6.97	76	911	0.10	PPBV #	85
32) FREON 113	7.06	151	3096	0.10	PPBV	95
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	1746	0.10	PPBV	95
34) TERTIARY BUTYL ALCOHOL	6.85	59	4230	0.10	PPBV #	70
35) METHYL TERTIARY BUTYL ETHER	7.83	73	5033	0.10	PPBV	89
36) TETRAHYDROFURAN	9.13	72	827	0.09	PPBV #	85
37) HEXANE	8.62	57	3377	0.11	PPBV	92
39) 1,1-DICHLOROETHANE	7.78	63	3512	0.11	PPBV	97
40) METHYL ETHYL KETONE	8.12	72	904	0.10	PPBV	99
41) cis-1,2-DICHLOROETHYLENE	8.46	96	1969	0.10	PPBV	98
42) DI-ISOPROPYL ETHER	8.62	45	6938	0.11	PPBV	100
43) ETHYL ACETATE	8.63	61	527	0.09	PPBV #	1
44) METHYL ACRYLATE	8.64	55	3298	0.10	PPBV	98
45) CHLOROFORM	8.71	83	3641	0.11	PPBV	94
46) 2,4-DIMETHYLPENTANE	9.38	57	3848	0.10	PPBV	98
47) 1,1,1-TRICHLOROETHANE	9.59	97	3488	0.10	PPBV	98
48) CARBON TETRACHLORIDE	10.13	117	3527	0.10	PPBV	98
49) 1,2-DICHLOROETHANE	9.35	62	2039	0.10	PPBV	95
51) BENZENE	10.00	78	5719	0.10	PPBV	99
52) CYCLOHEXANE	10.24	84	3378	0.12	PPBV #	2
53) 2,3-DIMETHYLPENTANE	10.45	71	1453	0.10	PPBV	92
54) TRICHLOROETHYLENE	10.96	95	2275	0.10	PPBV	96

(#) = qualifier out of range (m) = manual integration

W32365.D MW1322.M Thu Sep 01 12:11:18 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32365.D Vial: 4
 Acq On : 22 Jun 2011 10:36 am Operator: YOUMINH
 Sample : IC1322-0.1 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 11:22:02 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:04:41 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55) DIBROMOMETHANE	10.73	174	2014	0.10	PPBV	92
56) 1,2-DICHLOROPROPANE	10.74	63	2328	0.11	PPBV	96
57) ETHYL ACRYLATE	10.73	55	3467	0.09	PPBV #	92
58) BROMODICHLOROMETHANE	10.93	83	3540	0.10	PPBV	99
59) 2,2,4-TRIMETHYLPENTANE	10.98	57	10206	0.11	PPBV	99
61) METHYL METHACRYLATE	11.14	69	1773	0.09	PPBV	92
62) HEPTANE	11.21	43	3969	0.11	PPBV	91
63) TVHC as EQUIV HEPTANE	11.21	TIC	17432m	0.11	PPBV	
64) METHYL ISOBUTYL KETONE	11.84	43	3884	0.10	PPBV	91
65) cis-1,3-DICHLOROPROPENE	11.77	75	2881	0.10	PPBV	93
66) TOLUENE	12.74	92	3839	0.10	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.28	75	2514	0.10	PPBV	83
68) 1,1,2-TRICHLOROETHANE	12.47	83	1654	0.10	PPBV	99
70) ETHYL METHACRYLATE	12.99	69	2439	0.09	PPBV #	86
71) 2-HEXANONE	13.02	43	2853	0.09	PPBV	92
72) TETRACHLOROETHYLENE	13.88	164	2430	0.11	PPBV	98
73) DIBROMOCHLOROMETHANE	13.17	129	2909	0.10	PPBV	93
74) 1,2-DIBROMOETHANE	13.42	107	2534	0.10	PPBV #	99
75) OCTANE	13.70	43	4609	0.11	PPBV	92
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	2257	0.10	PPBV #	85
77) CHLOROBENZENE	14.59	112	4291	0.10	PPBV #	42
78) ETHYLBENZENE	14.98	91	6601	0.10	PPBV	97
79) m,p-XYLENE	15.16	106	5148	0.20	PPBV	97
80) o-XYLENE	15.68	106	2505	0.10	PPBV	96
81) STYRENE	15.57	104	3051	0.09	PPBV	98
82) 1,2,3-TRICHLOROPROPANE	15.82	75	2363	0.10	PPBV	93
83) NONANE	15.90	43	3829	0.10	PPBV	93
84) BROMOFORM	15.27	173	2507	0.10	PPBV	96
86) 1,1,2,2-TETRACHLOROETHANE	15.68	83	2908	0.10	PPBV	99
87) ISOPROPYLBENZENE	16.33	105	6986	0.10	PPBV	98
88) BROMOBENZENE	16.44	156	1678	0.09	PPBV	94
89) 2-CHLOROTOLUENE	16.87	126	1504	0.10	PPBV #	95
90) n-PROPYLBENZENE	16.90	120	1574	0.09	PPBV	85
91) 4-ETHYLTOLUENE	17.07	105	5200	0.09	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	4590	0.09	PPBV	99
94) TERT-BUTYLBENZENE	17.61	134	1089	0.09	PPBV	81
95) 1,2,4-TRIMETHYLBENZENE	17.61	105	3977	0.09	PPBV	92
96) m-DICHLOROBENZENE	17.79	146	2250	0.09	PPBV	94
97) BENZYL CHLORIDE	17.78	91	2439	0.08	PPBV	92
98) p-DICHLOROBENZENE	17.88	146	2225	0.09	PPBV	98
99) SEC-BUTYLBENZENE	17.92	134	1204	0.08	PPBV	88
100) p-ISOPROPYLTOLUENE	18.10	134	1106	0.08	PPBV	82
101) o-DICHLOROBENZENE	18.27	146	2067	0.09	PPBV	95
103) HEXACHLOROETHANE	19.03	201	1174	0.08	PPBV #	76
104) HEXACHLOROBUTADIENE	20.75	225	781	0.09	PPBV #	75
105) 1,2,4-TRICHLOROBENZENE	20.23	180	476	0.08	PPBV	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 W32365.D MW1322.M Thu Sep 01 12:11:18 2011 MSW

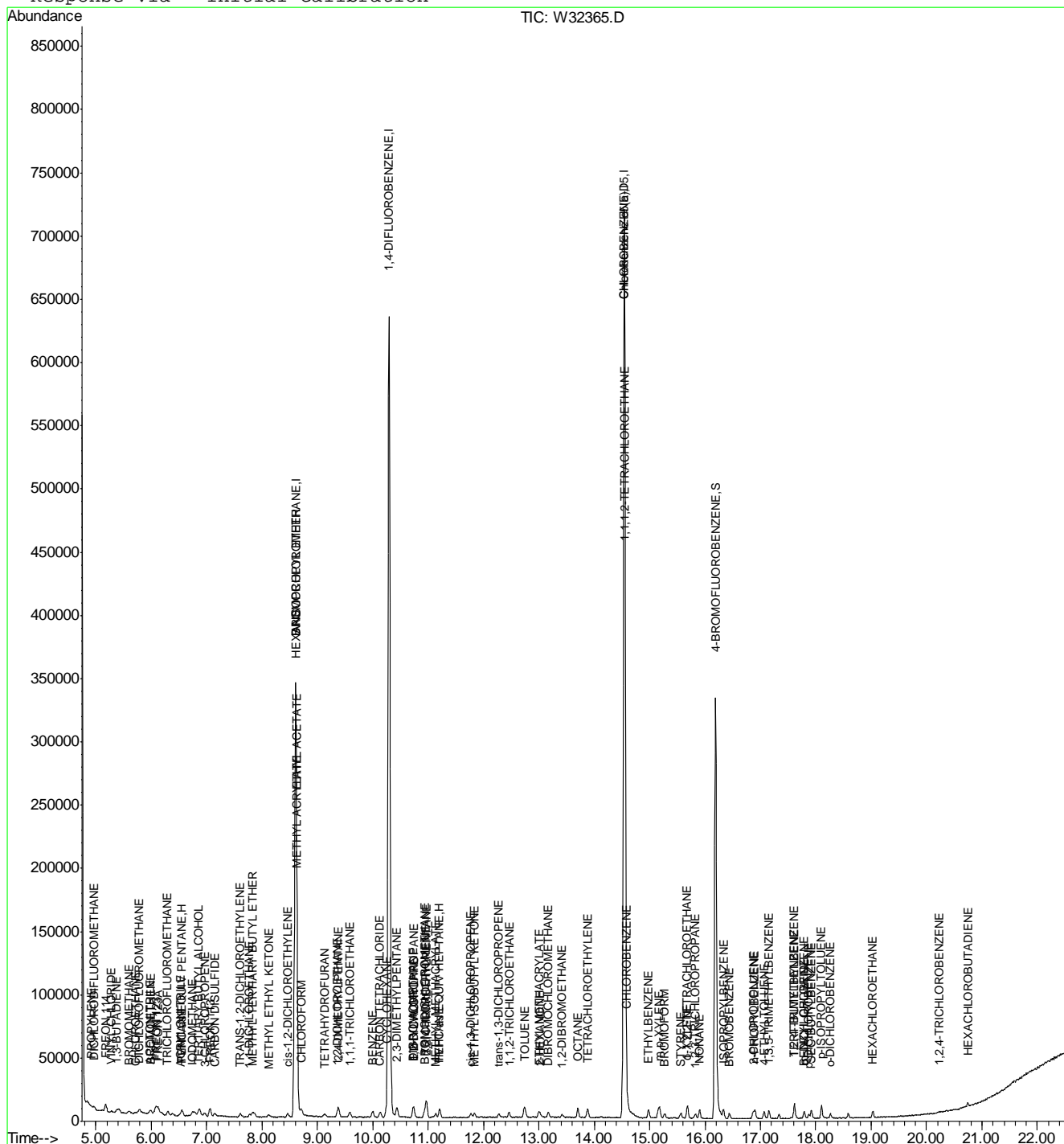
(OT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32365.D          Vial: 4
Acq On    : 22 Jun 2011  10:36 am                            Operator: YOUMINH
Sample    : IC1322-0.1                                         Inst      : MSW
Misc      : MS14116,VW1322,,,,,1                             Multiplr : 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011                                Quant Results File: MW1322.

```

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration

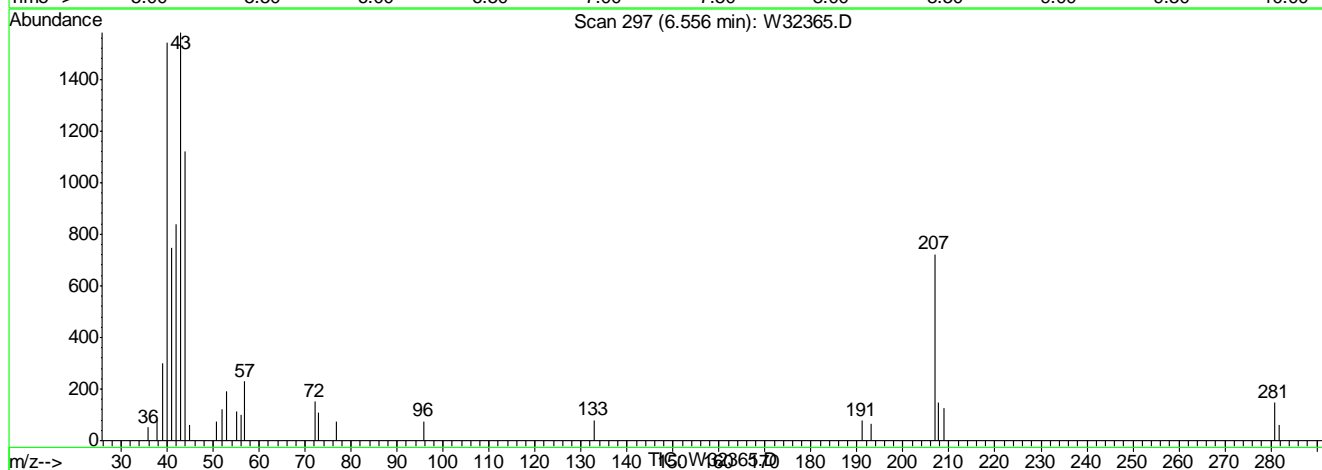
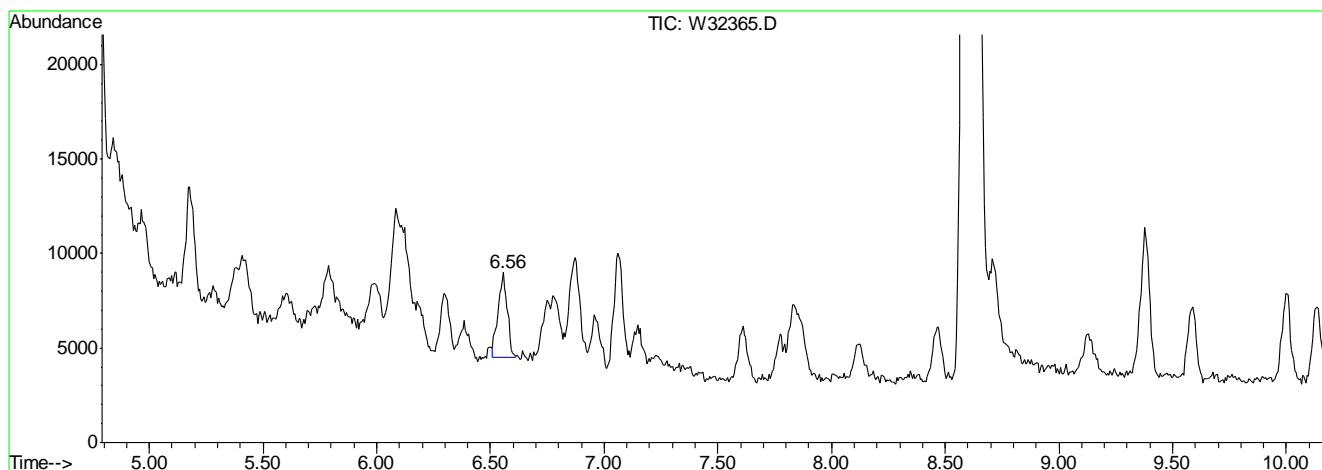


6.7.19

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32365.D Vial: 4
 Acq On : 22 Jun 2011 10:36 am Operator: YOUMINH
 Sample : IC1322-0.1 Inst : MSW
 Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 0.12PPBV m

response 12508

Signal Exp% Act%

TIC 100 100

0.00 1.40 0.50#

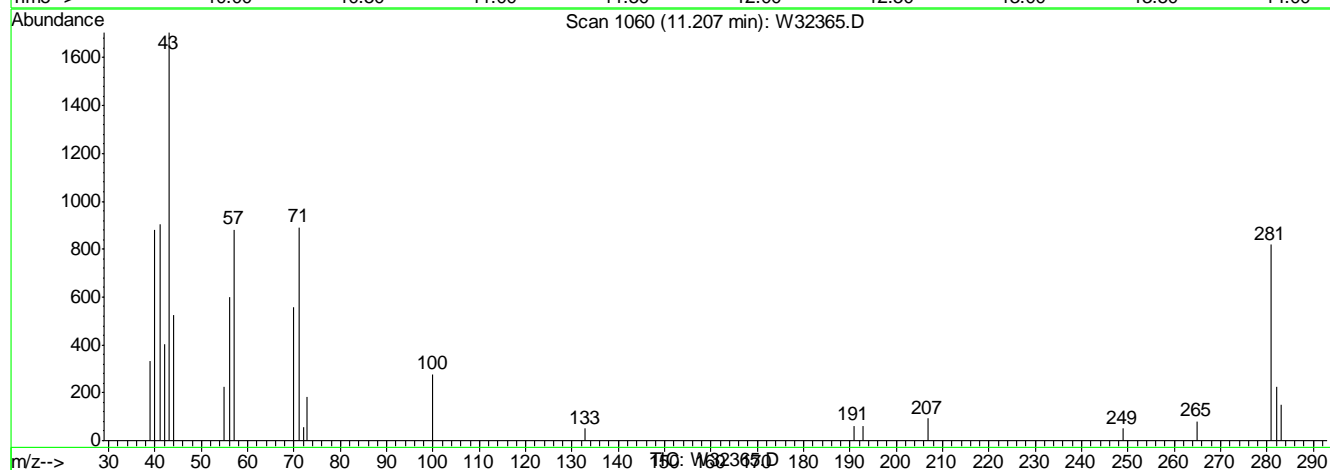
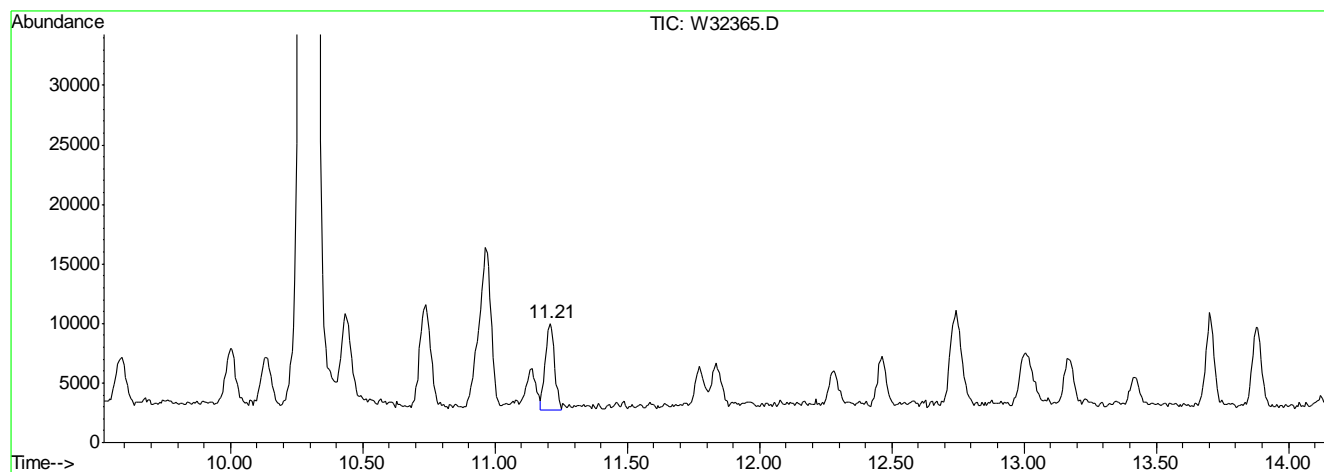
0.00 1.10 0.00

0.00 0.00 0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32365.D Vial: 4
Acq On : 22 Jun 2011 10:36 am Operator: YOUMINH
Sample : IC1322-0.1 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 0.11PPBV m

response 17432

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	0.36#
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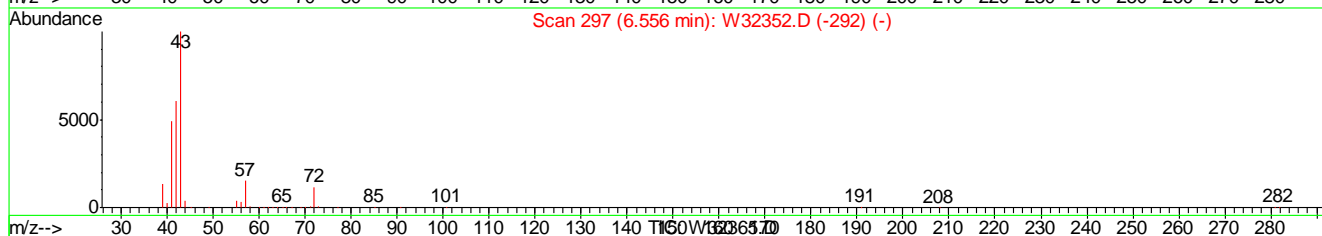
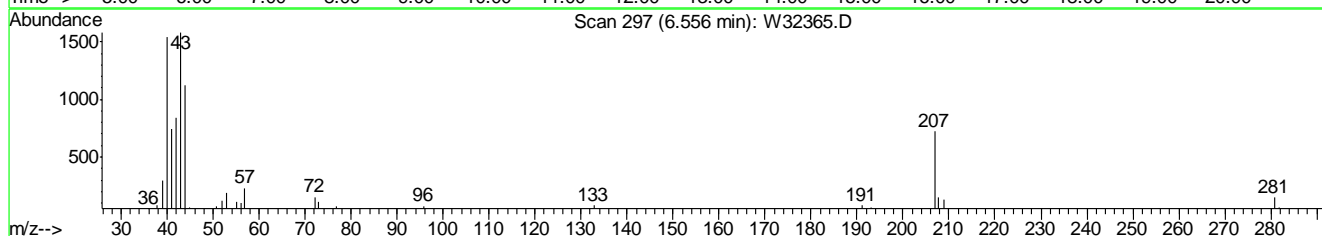
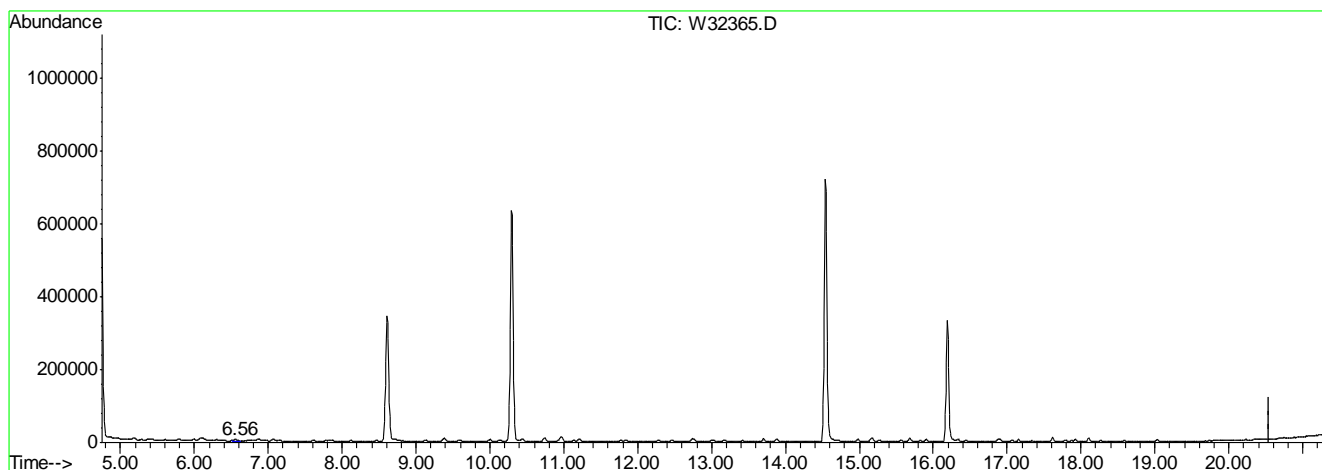
0.00	0.70	0.00
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32365.D Vial: 4
Acq On : 22 Jun 2011 10:36 am Operator: YOUMINH
Sample : IC1322-0.1 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 0.12PPBV m

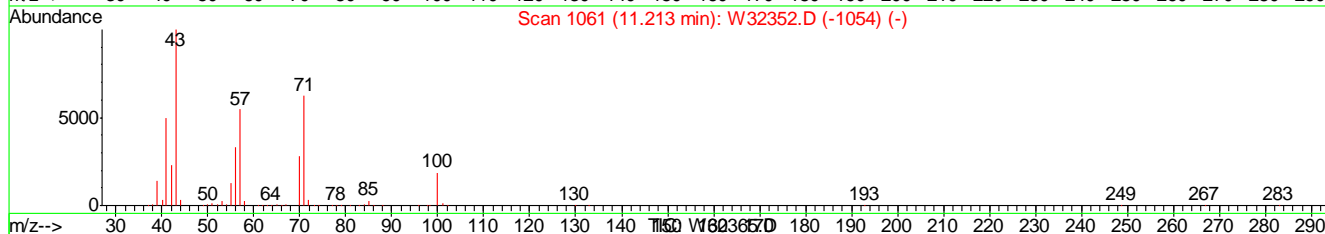
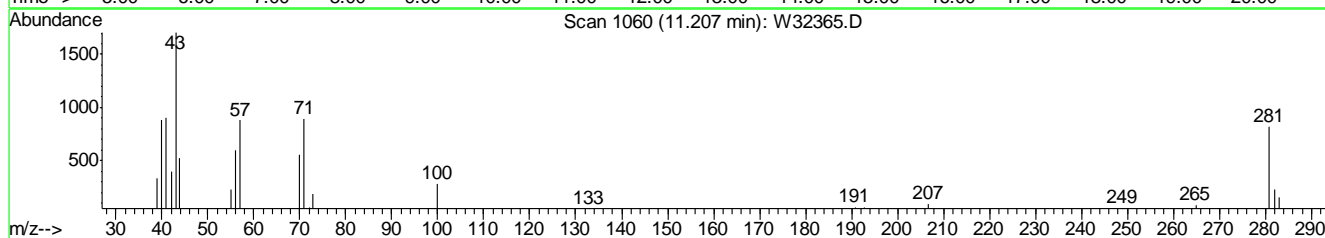
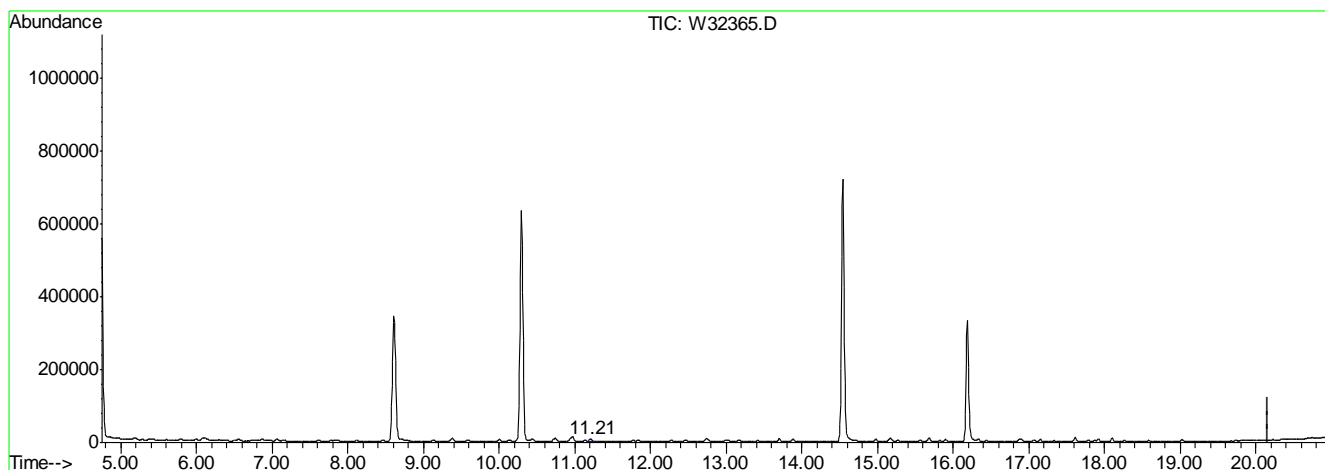
response 12508

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	0.50#
0.00	1.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322\W32365.D Vial: 4
Acq On : 22 Jun 2011 10:36 am Operator: YOUMINH
Sample : IC1322-0.1 Inst : MSW
Misc : MS14116,VW1322,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 12:53 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 0.11PPBV m

response 17432

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	0.90	0.36#
------	------	-------

0.00	0.70	0.00
------	------	------

0.00	0.00	0.00
------	------	------

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32368.D Vial: 3
 Acq On : 22 Jun 2011 1:22 pm Operator: YOUMINH
 Sample : BS Inst : MSW
 Misc : MS14116,VW1323,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 13:56:34 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.61	128	149452	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	760524	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.55	82	366156	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.55	82	365656	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.19 95 207608 5.25 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 105.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.88	67	41637	9.55	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.97	85	417564	9.51	PPBV	100
6) PROPYLENE	4.91	41	162840	8.72	PPBV	99
7) FREON 114	5.18	85	444623	8.64	PPBV	94
8) CHLOROMETHANE	5.10	52	55309	9.73	PPBV	95
9) VINYL CHLORIDE	5.28	62	195622	9.94	PPBV	100
10) 1,3-BUTADIENE	5.38	54	156235	9.48	PPBV	100
11) n-BUTANE	5.42	43	309186	9.48	PPBV	100
12) BROMOMETHANE	5.60	94	161535	9.58	PPBV	100
13) CHLOROETHANE	5.73	64	110372	9.78	PPBV	95
15) ACROLEIN	6.07	56	77773	9.64	PPBV	99
16) FREON 123	6.08	83	421371	9.82	PPBV #	99
17) FREON 123A	6.12	117	244584	9.53	PPBV	97
18) TRICHLOROFLUOROMETHANE	6.30	101	390979	9.33	PPBV	100
19) ISOPROPYL ALCOHOL	6.35	45	342668	9.41	PPBV	99
20) ACETONE	6.17	58	86774	9.08	PPBV	98
22) PENTANE	6.56	57	55476	9.00	PPBV	99
23) TVHC as EQUIV PENTANE	6.56	TIC	976614m	8.74	PPBV	
24) IODOMETHANE	6.74	142	438686	9.85	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.79	96	166577	8.84	PPBV	98
26) CARBON DISULFIDE	7.14	76	475744	10.44	PPBV	100
27) ETHANOL	5.81	45	81037	8.47	PPBV	98
29) BROMOETHENE	6.00	106	168965	9.65	PPBV	100
30) METHYLENE CHLORIDE	6.87	84	154038	8.52	PPBV	99
31) 3-CHLOROPROPENE	6.96	76	91657	10.11	PPBV	99
32) FREON 113	7.06	151	277290	8.96	PPBV	99
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	174061	9.84	PPBV	99
34) TERTIARY BUTYL ALCOHOL	6.81	59	413784	9.81	PPBV	100
35) METHYL TERTIARY BUTYL ETHER	7.82	73	502245	9.96	PPBV	100
36) TETRAHYDROFURAN	9.09	72	91304	10.45	PPBV	98
37) HEXANE	8.62	57	306917	9.43	PPBV	98
38) VINYL ACETATE	7.87	86	47412	9.70	PPBV #	91
39) 1,1-DICHLOROETHANE	7.78	63	328780	9.60	PPBV	100
40) METHYL ETHYL KETONE	8.10	72	90079	10.05	PPBV	94
41) cis-1,2-DICHLOROETHYLENE	8.46	96	182567	9.10	PPBV	99
42) DI-ISOPROPYL ETHER	8.61	45	667360	9.91	PPBV	94
43) ETHYL ACETATE	8.63	61	57420	9.90	PPBV #	94
45) CHLOROFORM	8.72	83	333372	9.55	PPBV	100
46) 2,4-DIMETHYLPENTANE	9.38	57	381859	9.90	PPBV	99
47) 1,1,1-TRICHLOROETHANE	9.59	97	336072	9.67	PPBV	100

(#) = qualifier out of range (m) = manual integration

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32368.D Vial: 3
 Acq On : 22 Jun 2011 1:22 pm Operator: YOUMINH
 Sample : BS Inst : MSW
 Misc : MS14116,VW1323,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 22 13:56:34 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) CARBON TETRACHLORIDE	10.14	117	338425	9.50	PPBV	100
49) 1,2-DICHLOROETHANE	9.36	62	202352	10.03	PPBV	100
51) BENZENE	10.00	78	576258	9.93	PPBV	100
52) CYCLOHEXANE	10.24	84	271280	9.27	PPBV	98
53) 2,3-DIMETHYLPENTANE	10.44	71	142254	9.84	PPBV	99
54) TRICHLOROETHYLENE	10.96	95	216265	9.59	PPBV	99
56) 1,2-DICHLOROPROPANE	10.74	63	211289	9.67	PPBV	100
58) BROMODICHLOROMETHANE	10.93	83	356355	9.95	PPBV	99
59) 2,2,4-TRIMETHYLPENTANE	10.98	57	1007496	10.10	PPBV	100
60) 1,4-DIOXANE	10.99	88	117481	9.97	PPBV #	58
61) METHYL METHACRYLATE	11.13	69	194927	9.84	PPBV	98
62) HEPTANE	11.21	43	353801	9.48	PPBV	100
63) TVHC as EQUIV HEPTANE	11.21	TIC	1524292m	9.39	PPBV	
64) METHYL ISOBUTYL KETONE	11.81	43	397152	9.91	PPBV	99
65) cis-1,3-DICHLOROPROPENE	11.77	75	291165	10.01	PPBV	100
66) TOLUENE	12.74	92	393282	10.10	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.28	75	275835	10.23	PPBV	100
68) 1,1,2-TRICHLOROETHANE	12.46	83	173435	10.27	PPBV	100
71) 2-HEXANONE	12.99	43	355121	9.81	PPBV	98
72) TETRACHLOROETHYLENE	13.88	164	234653	9.63	PPBV	99
73) DIBROMOCHLOROMETHANE	13.18	129	342510	10.43	PPBV	100
74) 1,2-DIBROMOETHANE	13.42	107	283693	10.39	PPBV	100
75) OCTANE	13.71	43	466546	10.06	PPBV	100
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	257065	10.60	PPBV #	99
77) CHLOROBENZENE	14.59	112	463317	10.26	PPBV	100
78) ETHYLBENZENE	14.98	91	785259	10.79	PPBV	100
79) m,p-XYLENE	15.17	106	610127	21.61	PPBV	100
80) o-XYLENE	15.68	106	294246	10.79	PPBV	100
81) STYRENE	15.57	104	432924	11.20	PPBV	100
82) 1,2,3-TRICHLOROPROPANE	15.83	75	285020	10.70	PPBV	100
83) NONANE	15.90	43	440200	10.91	PPBV	100
84) BROMOFORM	15.27	173	304655	10.82	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.68	83	359821	11.26	PPBV	100
87) ISOPROPYLBENZENE	16.33	105	842617	10.98	PPBV	100
89) 2-CHLOROTOLUENE	16.87	126	188844	11.02	PPBV #	100
90) n-PROPYLBENZENE	16.91	120	217018	11.47	PPBV	99
91) 4-ETHYLTOLUENE	17.07	105	742350	11.63	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	598470	11.34	PPBV	100
94) TERT-BUTYLBENZENE	17.61	134	155382	11.16	PPBV	99
95) 1,2,4-TRIMETHYLBENZENE	17.62	105	566633	11.72	PPBV	99
96) m-DICHLOROBENZENE	17.80	146	333930	11.66	PPBV	100
97) BENZYL CHLORIDE	17.78	91	410272	12.03	PPBV	100
98) p-DICHLOROBENZENE	17.88	146	317804	11.25	PPBV	99
99) SEC-BUTYLBENZENE	17.92	134	176695	11.76	PPBV	99
100) p-ISOPROPYLTOLUENE	18.10	134	172730	12.10	PPBV	98
101) o-DICHLOROBENZENE	18.27	146	292886	11.36	PPBV	99
102) n-BUTYLBENZENE	18.59	134	133856	11.41	PPBV	100
104) HEXACHLOROBUTADIENE	20.74	225	106269	11.78	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.22	180	66073	10.70	PPBV	100

(#) = qualifier out of range (m) = manual integration

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32368.D Vial: 3
Acq On : 22 Jun 2011 1:22 pm Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS14116,VW1323,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 22 13:56:34 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

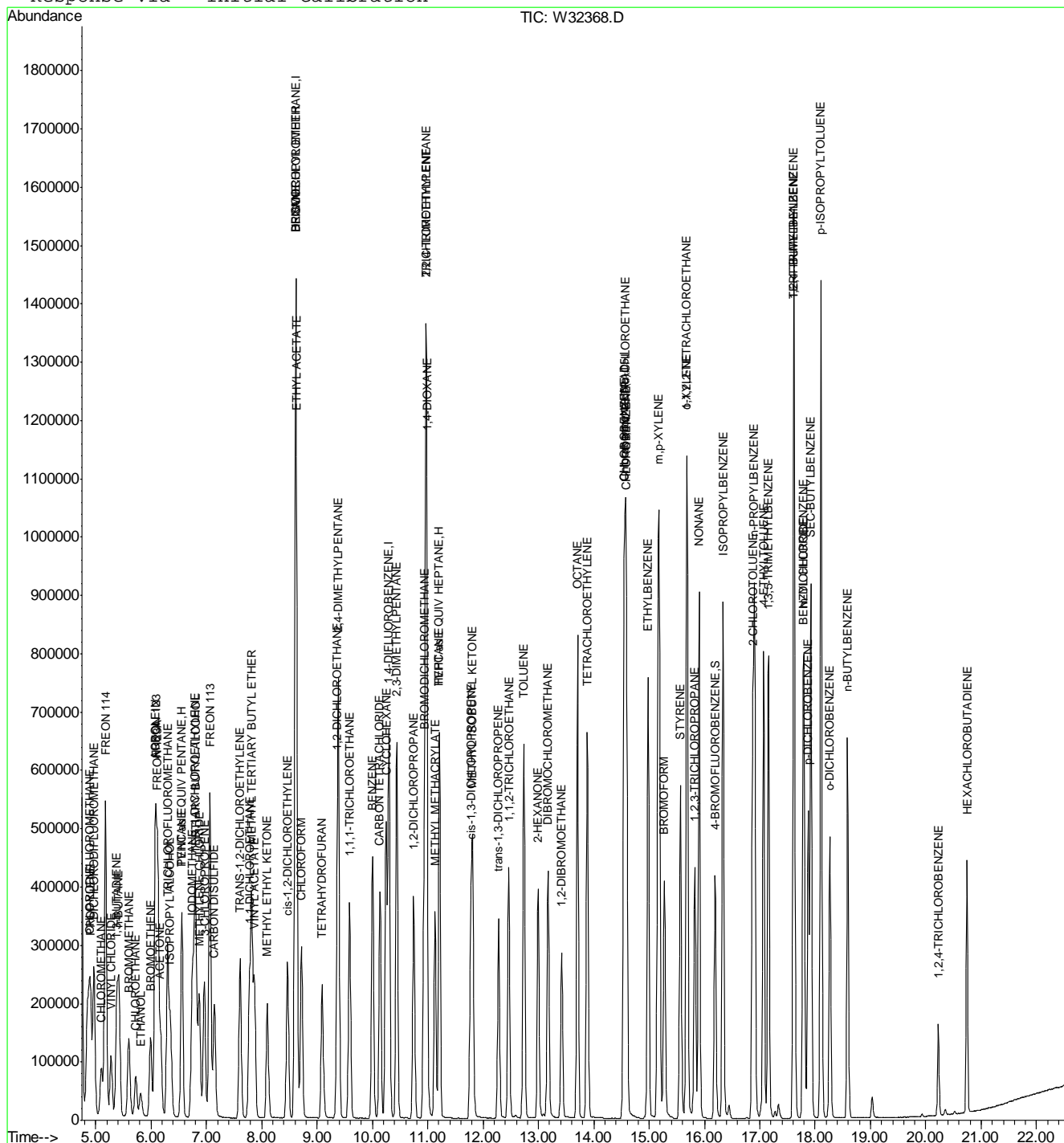
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32368.D MW1322.M Tue Aug 16 08:55:56 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32368.D Vial: 3
Acq On : 22 Jun 2011 1:22 pm Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS14116,VW1323,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: MW1322.RES

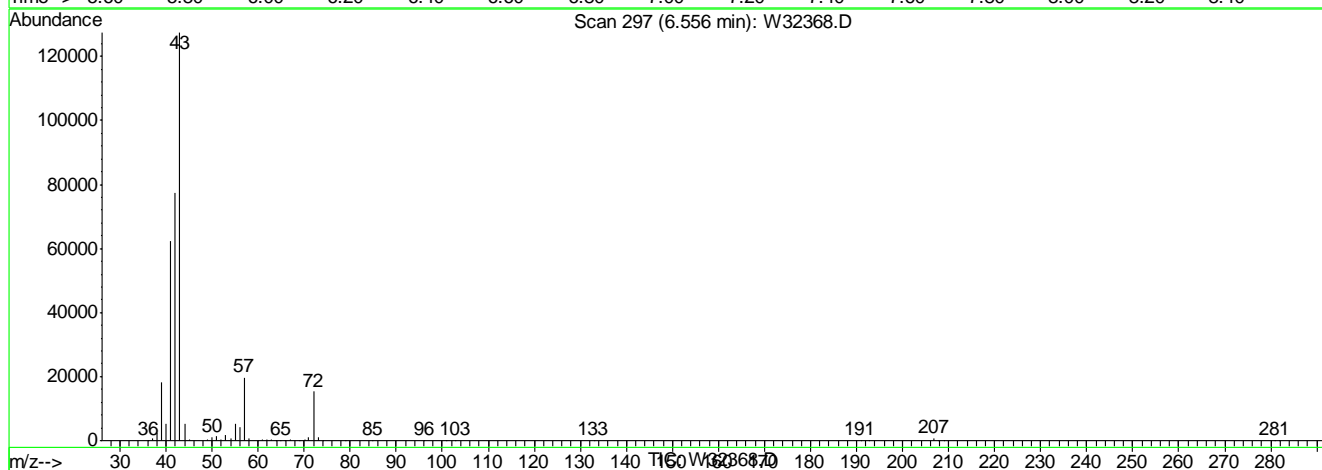
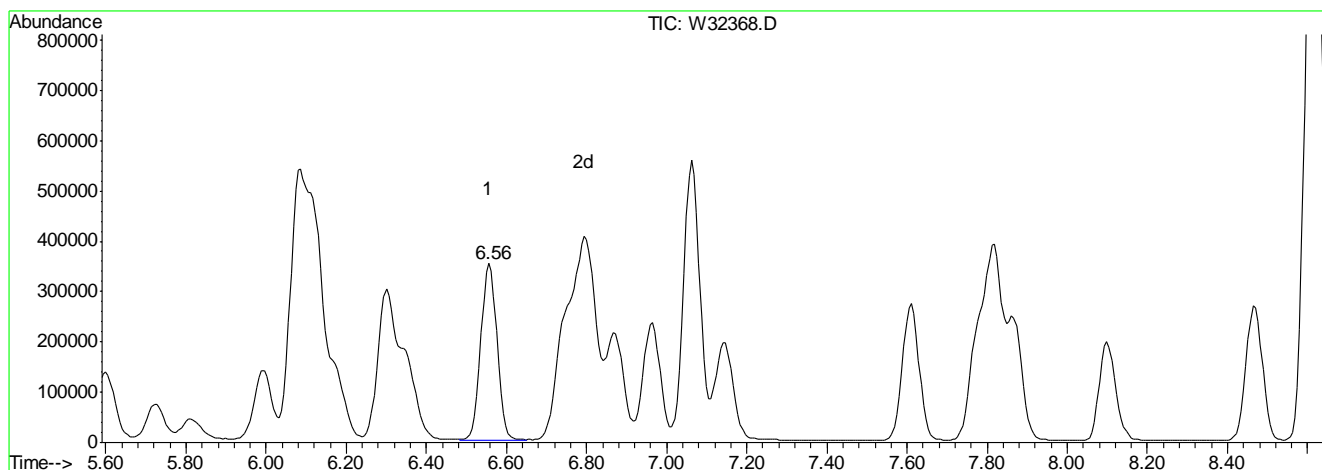
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32368.D Vial: 3
Acq On : 22 Jun 2011 1:22 pm Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS14116,VW1323,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 8.74PPBV m

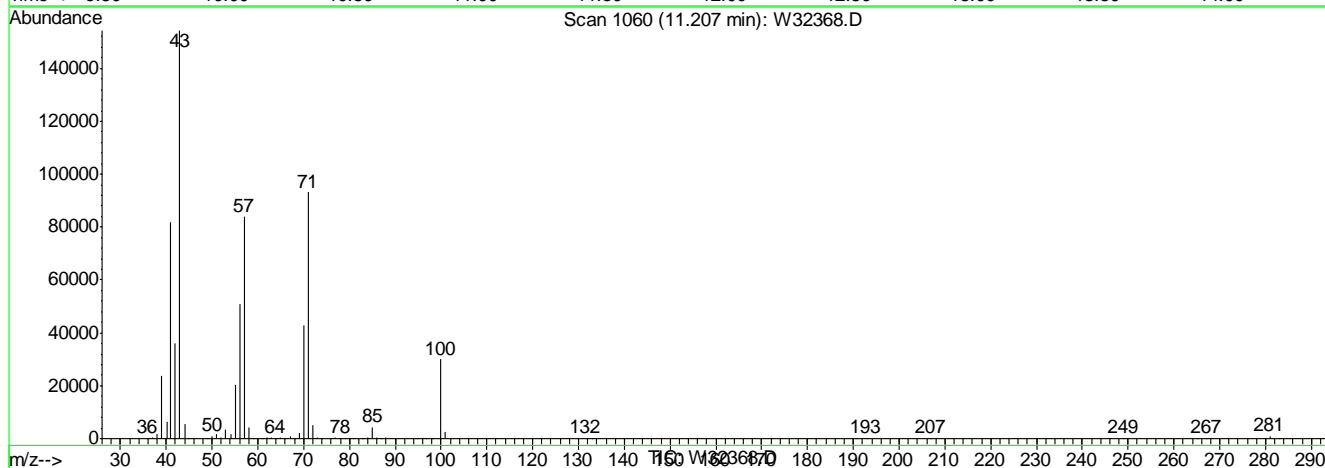
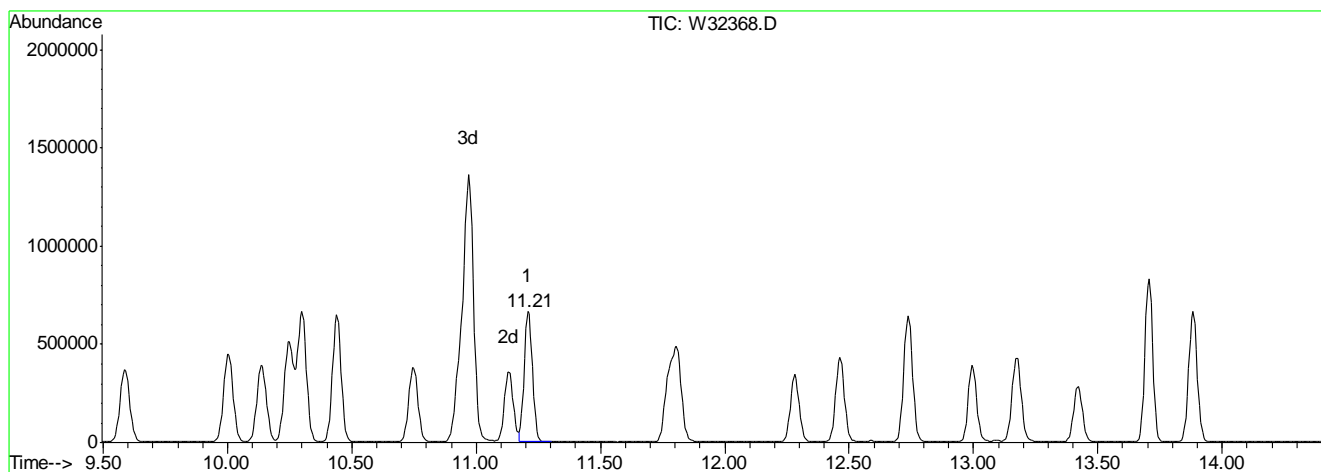
response 976614

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	0.13#
0.00	1.00	0.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32368.D Vial: 3
Acq On : 22 Jun 2011 1:22 pm Operator: YOUMINH
Sample : BS Inst : MSW
Misc : MS14116,VW1323,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 9.39PPBV m

response 1524292

Signal	Exp%	Act%
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TIC	100	100
-----	-----	-----

0.00	0.90	0.08#
------	------	-------

0.00	0.70	0.07#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32386.D Vial: 2
 Acq On : 23 Jun 2011 9:03 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 24 08:07:25 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.62	128	149471	10.00	PPBV	0.00
50) 1,4-DIFLUOROBENZENE	10.30	114	767115	10.00	PPBV	0.00
69) CHLOROBENZENE-D5	14.55	82	376885	10.00	PPBV	0.00
106) Chlorobenzene-d5(a)	14.55	82	375518	10.00	PPBV	0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.19 95 211618 5.20 PPBV 0.00
 Spiked Amount 5.000 Range 65 - 128 Recovery = 104.00%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.89	67	43129	9.89	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.97	85	433231	9.87	PPBV	100
6) PROPYLENE	4.92	41	181486	9.71	PPBV	99
7) FREON 114	5.18	85	511728	9.94	PPBV	97
8) CHLOROMETHANE	5.11	52	57377	10.09	PPBV #	87
9) VINYL CHLORIDE	5.28	62	202199	10.27	PPBV	100
10) 1,3-BUTADIENE	5.39	54	163845	9.94	PPBV	97
11) n-BUTANE	5.43	43	340581	10.44	PPBV	99
12) BROMOMETHANE	5.60	94	165981	9.85	PPBV	100
13) CHLOROETHANE	5.73	64	115393	10.22	PPBV	99
14) DICHLOROFLUOROMETHANE	5.79	67	403894	10.09	PPBV	100
15) ACROLEIN	6.07	56	81407	10.08	PPBV	100
16) FREON 123	6.09	83	426800	9.95	PPBV #	100
17) FREON 123A	6.12	117	245226	9.56	PPBV	92
18) TRICHLOROFLUOROMETHANE	6.31	101	405952	9.68	PPBV	100
19) ISOPROPYL ALCOHOL	6.35	45	365785	10.04	PPBV	99
20) ACETONE	6.18	58	96970	10.14	PPBV	97
21) ACRYLONITRILE	6.52	53	156915	10.42	PPBV	99
22) PENTANE	6.56	57	57971	9.40	PPBV	95
23) TVHC as EQUIV PENTANE	6.56	TIC	1070513m	9.58	PPBV	
24) IODOMETHANE	6.74	142	426268	9.57	PPBV	98
25) 1,1-DICHLOROETHYLENE	6.79	96	178891	9.49	PPBV	93
26) CARBON DISULFIDE	7.15	76	441505	9.69	PPBV	99
27) ETHANOL	5.82	45	91235	9.54	PPBV	99
28) ACETONITRILE	5.98	41	167837	10.59	PPBV	98
29) BROMOETHENE	5.99	106	169946	9.70	PPBV	99
30) METHYLENE CHLORIDE	6.87	84	168684	9.33	PPBV	94
31) 3-CHLOROPROPENE	6.96	76	92577	10.21	PPBV	96
32) FREON 113	7.07	151	294777	9.52	PPBV	97
33) TRANS-1,2-DICHLOROETHYLENE	7.61	96	169290	9.57	PPBV	96
34) TERTIARY BUTYL ALCOHOL	6.81	59	426798	10.12	PPBV	98
35) METHYL TERTIARY BUTYL ETHER	7.82	73	515284	10.22	PPBV	98
36) TETRAHYDROFURAN	9.09	72	92338	10.56	PPBV	95
37) HEXANE	8.62	57	328125	10.08	PPBV	99
38) VINYL ACETATE	7.87	86	50700	10.37	PPBV #	90
39) 1,1-DICHLOROETHANE	7.78	63	348957	10.18	PPBV	100
40) METHYL ETHYL KETONE	8.10	72	90031	10.04	PPBV	100
41) cis-1,2-DICHLOROETHYLENE	8.47	96	186715	9.31	PPBV	97
42) DI-ISOPROPYL ETHER	8.61	45	703083	10.44	PPBV	100
43) ETHYL ACETATE	8.63	61	57894	9.98	PPBV #	94

(#) = qualifier out of range (m) = manual integration

W32386.D MW1322.M Tue Aug 16 08:56:05 2011 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32386.D Vial: 2
 Acq On : 23 Jun 2011 9:03 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 24 08:07:25 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) METHYL ACRYLATE	8.63	55	357163	10.47	PPBV	99
45) CHLOROFORM	8.72	83	346672	9.93	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.38	57	395442	10.25	PPBV	99
47) 1,1,1-TRICHLOROETHANE	9.59	97	342139	9.84	PPBV	99
48) CARBON TETRACHLORIDE	10.14	117	349256	9.81	PPBV	100
49) 1,2-DICHLOROETHANE	9.37	62	208968	10.36	PPBV	99
51) BENZENE	10.01	78	585315	10.00	PPBV	99
52) CYCLOHEXANE	10.25	84	271398	9.19	PPBV	97
53) 2,3-DIMETHYLPENTANE	10.44	71	146351	10.03	PPBV	98
54) TRICHLOROETHYLENE	10.96	95	224597	9.87	PPBV	99
55) DIBROMOMETHANE	10.73	174	196141	9.48	PPBV	95
56) 1,2-DICHLOROPROPANE	10.75	63	221608	10.06	PPBV	99
57) ETHYL ACRYLATE	10.72	55	387459	10.16	PPBV	100
58) BROMODICHLOROMETHANE	10.93	83	361105	9.99	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.98	57	1047346	10.41	PPBV	100
60) 1,4-DIOXANE	10.99	88	114507	9.64	PPBV #	78
61) METHYL METHACRYLATE	11.13	69	199452	9.98	PPBV	97
62) HEPTANE	11.21	43	372904	9.91	PPBV	98
63) TVHC as EQUIV HEPTANE	11.21	TIC	1589392m	9.71	PPBV	
64) METHYL ISOBUTYL KETONE	11.81	43	394561	9.76	PPBV	98
65) cis-1,3-DICHLOROPROPENE	11.77	75	294749	10.05	PPBV	99
66) TOLUENE	12.74	92	390507	9.95	PPBV	100
67) trans-1,3-DICHLOROPROPENE	12.28	75	276049	10.15	PPBV	99
68) 1,1,2-TRICHLOROETHANE	12.46	83	175164	10.29	PPBV	99
70) ETHYL METHACRYLATE	12.99	69	294074	10.13	PPBV	98
71) 2-HEXANONE	12.99	43	353489	9.49	PPBV	98
72) TETRACHLOROETHYLENE	13.88	164	229599	9.15	PPBV	98
73) DIBROMOCHLOROMETHANE	13.18	129	336306	9.95	PPBV	100
74) 1,2-DIBROMOETHANE	13.42	107	278254	9.90	PPBV	99
75) OCTANE	13.71	43	481765	10.09	PPBV	98
76) 1,1,1,2-TETRACHLOROETHANE	14.57	131	250649	10.04	PPBV #	99
77) CHLOROBENZENE	14.59	112	452956	9.75	PPBV	99
78) ETHYLBENZENE	14.98	91	757372	10.11	PPBV	100
79) m,p-XYLENE	15.17	106	590580	20.33	PPBV	100
80) o-XYLENE	15.68	106	287966	10.26	PPBV	100
81) STYRENE	15.57	104	416344	10.46	PPBV	99
82) 1,2,3-TRICHLOROPROPANE	15.83	75	278691	10.17	PPBV	98
83) NONANE	15.91	43	450834	10.85	PPBV	99
84) BROMOFORM	15.27	173	294178	10.15	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	15.69	83	345433	10.50	PPBV	99
87) ISOPROPYLBENZENE	16.33	105	817604	10.35	PPBV	99
88) BROMOBENZENE	16.44	156	210863	10.21	PPBV	98
89) 2-CHLOROTOLUENE	16.87	126	178506	10.12	PPBV #	97
90) n-PROPYLBENZENE	16.91	120	209087	10.73	PPBV	98
91) 4-ETHYLTOLUENE	17.07	105	713048	10.86	PPBV	100
92) 1,3,5-TRIMETHYLBENZENE	17.16	105	566491	10.43	PPBV	100
93) ALPHA-METHYLSTYRENE	17.33	118	253260	10.48	PPBV	100
94) TERT-BUTYLBENZENE	17.61	134	147843	10.32	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.62	105	536865	10.79	PPBV	100

(#) = qualifier out of range (m) = manual integration

W32386.D MW1322.M Tue Aug 16 08:56:05 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32386.D Vial: 2
Acq On : 23 Jun 2011 9:03 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 08:07:25 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

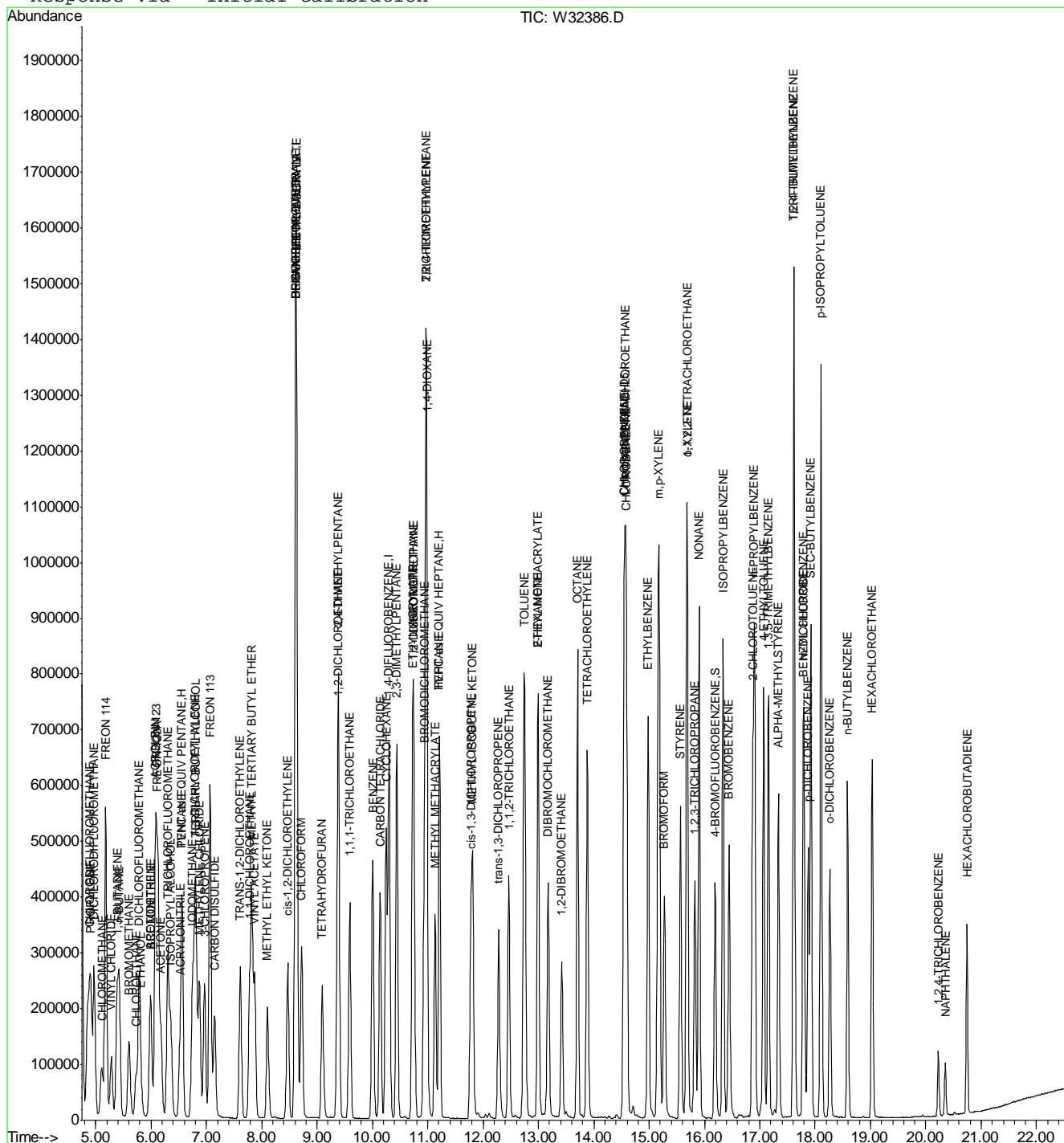
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) m-DICHLOROBENZENE	17.80	146	305289	10.36	PPBV	99
97) BENZYL CHLORIDE	17.78	91	372549	10.61	PPBV	99
98) p-DICHLOROBENZENE	17.88	146	289038	9.94	PPBV	99
99) SEC-BUTYLBENZENE	17.93	134	169057	10.93	PPBV	99
100) p-ISOPROPYLTOLUENE	18.10	134	162807	11.08	PPBV	99
101) o-DICHLOROBENZENE	18.27	146	262601	9.90	PPBV	99
102) n-BUTYLBENZENE	18.59	134	121091	10.02	PPBV	97
103) HEXACHLOROETHANE	19.03	201	167433	10.45	PPBV	97
104) HEXACHLOROBUTADIENE	20.74	225	82555	8.89	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.23	180	49775	7.83	PPBV	99
107) NAPHTHALENE	20.35	128	90968	8.09	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32386.D MW1322.M Tue Aug 16 08:56:05 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32386.D Vial: 2
Acq On : 23 Jun 2011 9:03 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: MW1322.RES

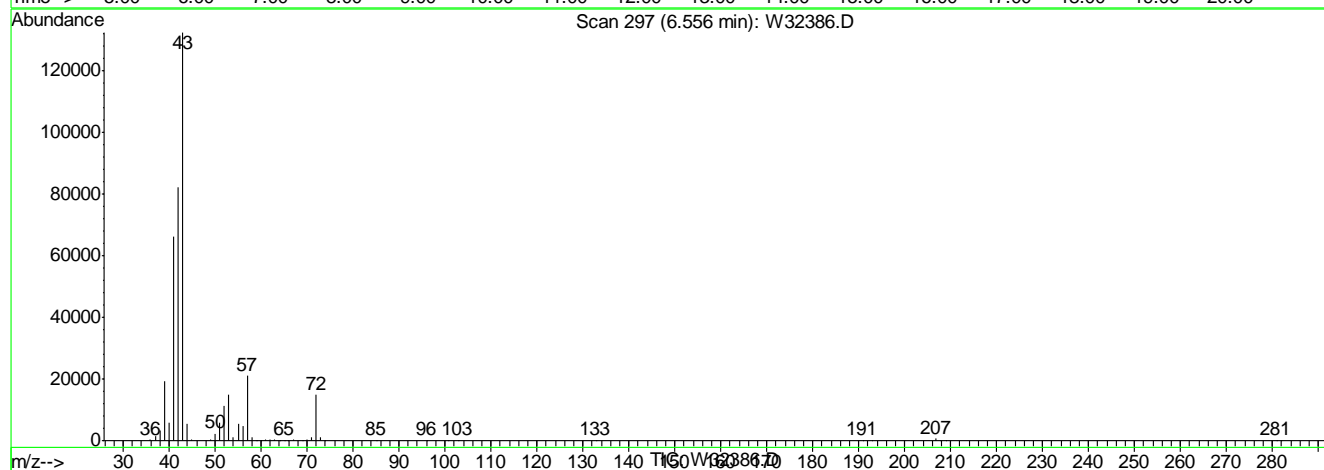
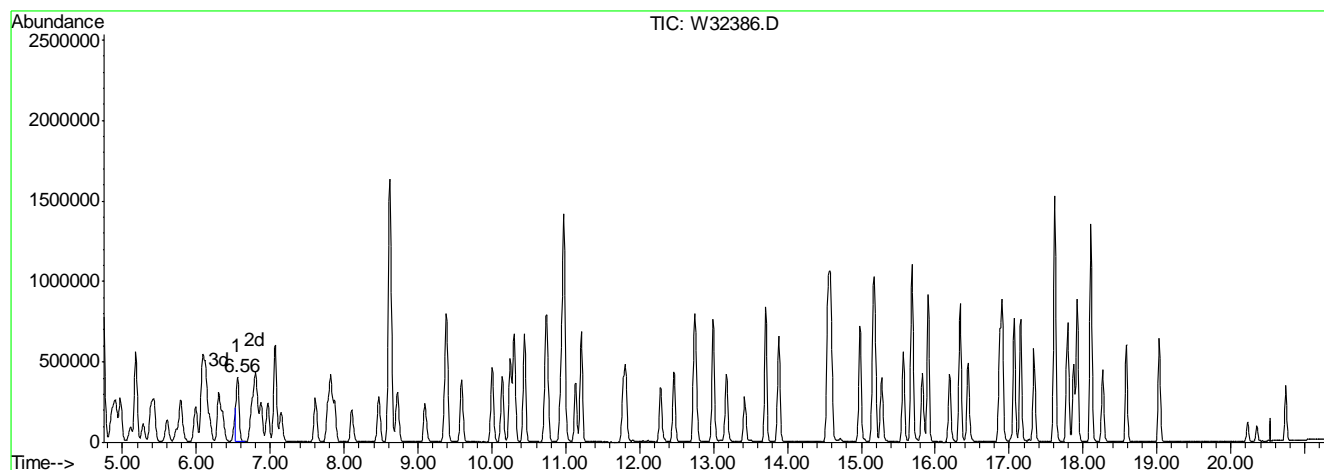
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32386.D Vial: 2
Acq On : 23 Jun 2011 9:03 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.56min 9.58PPBV m

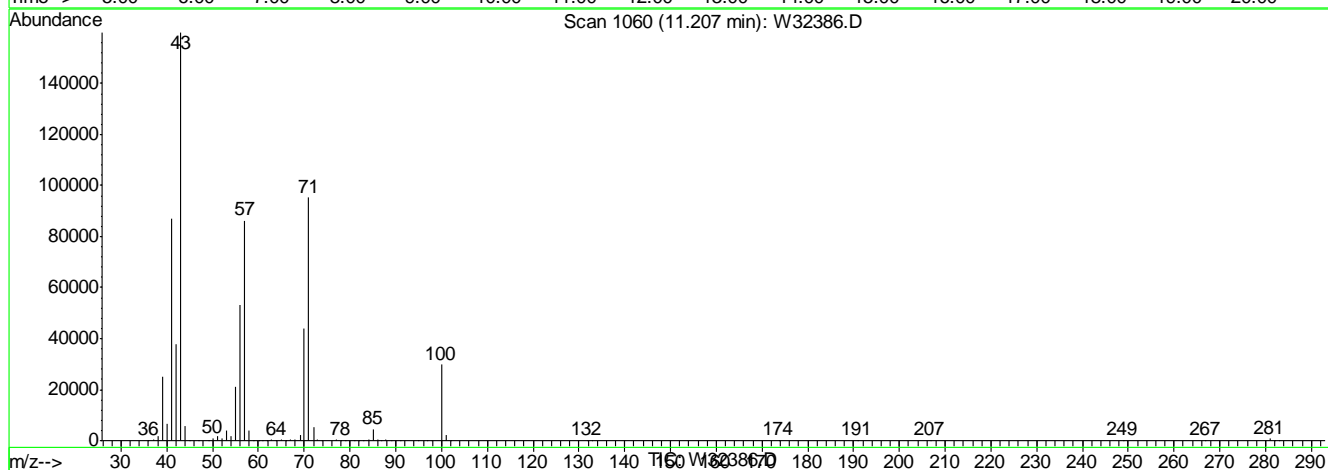
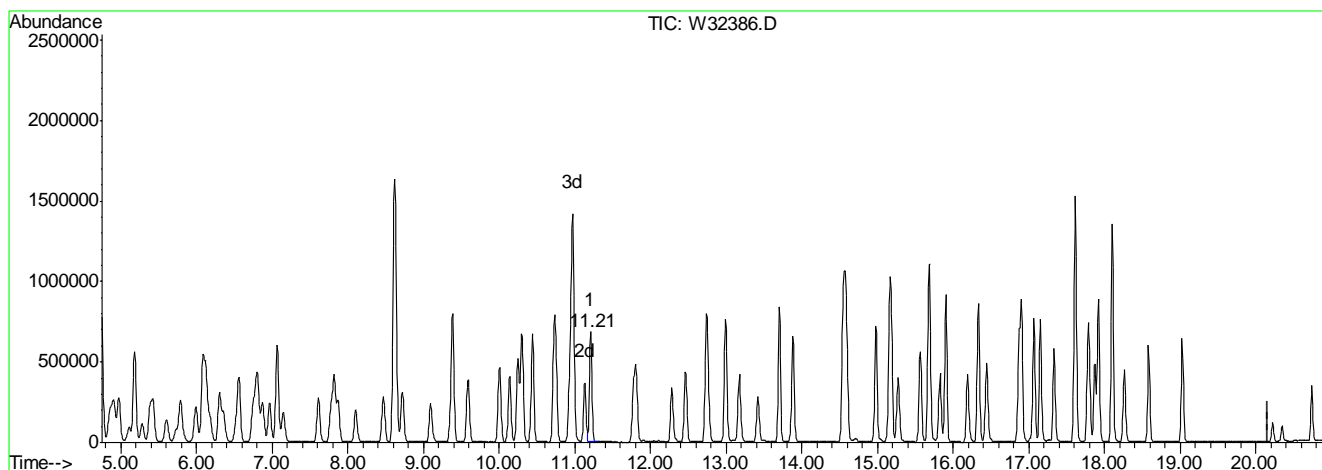
response 1070513

Signal	Exp%	Act%
TIC	100	100
0.00	1.40	1.18#
0.00	1.00	0.92#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1322-1327\W32386.D Vial: 2
Acq On : 23 Jun 2011 9:03 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS14299,VW1324,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 12:16 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.21min 9.71PPBV m

response 1589392

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	0.80#
------	------	-------

0.00	0.70	0.62#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32800.D Vial: 2
 Acq On : 20 Jul 2011 8:11 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 08:10:53 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.59	128	163015	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.27	114	786379	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.52	82	378609	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.52	82	377057	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	16.16	95	189994	4.64	PPBV	-0.03
Spiked Amount	5.000	Range	65 - 128	Recovery	=	92.80%

Target Compounds

						Qvalue
4) CHLORODIFLUOROMETHANE	4.89	67	39701	8.35	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.96	85	424348	8.86	PPBV	99
6) PROPYLENE	4.91	41	183187	8.99	PPBV	97
7) FREON 114	5.17	85	534892	9.53	PPBV	96
8) CHLOROMETHANE	5.10	52	63442	10.23	PPBV	100
9) VINYL CHLORIDE	5.27	62	227250	10.59	PPBV	99
10) 1,3-BUTADIENE	5.38	54	185263	10.31	PPBV	98
11) n-BUTANE	5.42	43	397149	11.17	PPBV	99
12) BROMOMETHANE	5.59	94	181770	9.89	PPBV	99
13) CHLOROETHANE	5.71	64	129672	10.53	PPBV	91
14) DICHLOROFLUOROMETHANE	5.78	67	429450	9.83	PPBV	99
15) ACROLEIN	6.06	56	86096	9.78	PPBV	98
16) FREON 123	6.07	83	479430	10.24	PPBV #	99
17) FREON 123A	6.11	117	260217	9.30	PPBV	88
18) TRICHLOROFLUOROMETHANE	6.29	101	425956	9.31	PPBV	100
19) ISOPROPYL ALCOHOL	6.34	45	414693	10.44	PPBV	97
20) ACETONE	6.17	58	105319	10.10	PPBV	92
21) ACRYLONITRILE	6.50	53	169439	10.32	PPBV	98
22) PENTANE	6.54	57	67227	10.00	PPBV #	94
23) TVHC as EQUIV PENTANE	6.54	TIC	1243644m	10.20	PPBV	
24) IODOMETHANE	6.73	142	462403	9.52	PPBV	99
25) 1,1-DICHLOROETHYLENE	6.78	96	208005	10.12	PPBV	95
26) CARBON DISULFIDE	7.13	76	510499	10.27	PPBV	100
27) ETHANOL	5.81	45	104380	10.01	PPBV	99
28) ACETONITRILE	5.96	41	180250	10.43	PPBV	96
29) BROMOETHENE	5.98	106	185343	9.70	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	192300	9.75	PPBV	93
31) 3-CHLOROPROPENE	6.95	76	101307	10.24	PPBV #	93
32) FREON 113	7.05	151	295463	8.75	PPBV	91
33) TRANS-1,2-DICHLOROETHYLENE	7.59	96	186237	9.65	PPBV	97
34) TERTIARY BUTYL ALCOHOL	6.80	59	479052	10.41	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.80	73	492334	8.95	PPBV	97
36) TETRAHYDROFURAN	9.07	72	92539	9.71	PPBV	92
37) HEXANE	8.60	57	385215	10.85	PPBV	96
38) VINYL ACETATE	7.85	86	50323	9.43	PPBV #	82
39) 1,1-DICHLOROETHANE	7.76	63	385546	10.32	PPBV	99
40) METHYL ETHYL KETONE	8.08	72	94106	9.63	PPBV	94
41) cis-1,2-DICHLOROETHYLENE	8.45	96	204138	9.33	PPBV	98
42) DI-ISOPROPYL ETHER	8.59	45	751222	10.23	PPBV	99
43) ETHYL ACETATE	8.61	61	61479	9.72	PPBV #	85

(#) = qualifier out of range (m) = manual integration

W32800.D MW1322.M Wed Aug 17 12:48:47 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32800.D Vial: 2
 Acq On : 20 Jul 2011 8:11 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 08:10:53 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) METHYL ACRYLATE	8.61	55	373145	10.03	PPBV	98
45) CHLOROFORM	8.70	83	368190	9.67	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.36	57	445345	10.59	PPBV	98
47) 1,1,1-TRICHLOROETHANE	9.56	97	341071	9.00	PPBV	98
48) CARBON TETRACHLORIDE	10.11	117	338924	8.72	PPBV	99
49) 1,2-DICHLOROETHANE	9.34	62	211407	9.61	PPBV	99
51) BENZENE	9.98	78	626207	10.44	PPBV	98
52) CYCLOHEXANE	10.22	84	290766	9.61	PPBV	93
53) 2,3-DIMETHYLPENTANE	10.41	71	159045	10.63	PPBV	95
54) TRICHLOROETHYLENE	10.94	95	238103	10.21	PPBV	95
55) DIBROMOMETHANE	10.71	174	197947	9.33	PPBV	90
56) 1,2-DICHLOROPROPANE	10.72	63	237189	10.50	PPBV	96
57) ETHYL ACRYLATE	10.70	55	409962	10.49	PPBV	98
58) BROMODICHLOROMETHANE	10.91	83	375235	10.13	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	1185270	11.49	PPBV	99
60) 1,4-DIOXANE	10.96	88	122118	10.03	PPBV #	54
61) METHYL METHACRYLATE	11.10	69	197350	9.63	PPBV	95
62) HEPTANE	11.18	43	435014	11.27	PPBV	94
63) TVHC as EQUIV HEPTANE	11.18	TIC	1775083m	10.58	PPBV	
64) METHYL ISOBUTYL KETONE	11.78	43	445977	10.77	PPBV	96
65) cis-1,3-DICHLOROPROPENE	11.75	75	294234	9.79	PPBV	99
66) TOLUENE	12.71	92	386157	9.59	PPBV	99
67) trans-1,3-DICHLOROPROPENE	12.26	75	261778	9.39	PPBV	99
68) 1,1,2-TRICHLOROETHANE	12.44	83	177868	10.19	PPBV	97
70) ETHYL METHACRYLATE	12.96	69	309272	10.60	PPBV	96
71) 2-HEXANONE	12.97	43	405827	10.84	PPBV	97
72) TETRACHLOROETHYLENE	13.85	164	231239	9.18	PPBV	99
73) DIBROMOCHLOROMETHANE	13.15	129	317252	9.34	PPBV	100
74) 1,2-DIBROMOETHANE	13.39	107	267122	9.46	PPBV	100
75) OCTANE	13.68	43	537174	11.20	PPBV	93
76) 1,1,1,2-TETRACHLOROETHANE	14.54	131	228265	9.11	PPBV #	100
77) CHLOROBENZENE	14.57	112	429592	9.20	PPBV	98
78) ETHYLBENZENE	14.96	91	718049	9.55	PPBV	99
79) m,p-XYLENE	15.15	106	553534	18.96	PPBV	98
80) o-XYLENE	15.66	106	265340	9.41	PPBV	100
81) STYRENE	15.54	104	382372	9.56	PPBV	98
82) 1,2,3-TRICHLOROPROPANE	15.80	75	251493	9.13	PPBV	97
83) NONANE	15.88	43	459287	11.01	PPBV	96
84) BROMOFORM	15.25	173	265253	9.11	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	15.66	83	334710	10.13	PPBV	99
87) ISOPROPYLBENZENE	16.31	105	729373	9.19	PPBV	99
88) BROMOBENZENE	16.42	156	189767	9.15	PPBV	95
89) 2-CHLOROTOLUENE	16.85	126	159841	9.02	PPBV #	97
90) n-PROPYLBENZENE	16.88	120	181633	9.28	PPBV	91
91) 4-ETHYLTOLUENE	17.04	105	615687	9.33	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.13	105	478341	8.77	PPBV	100
93) ALPHA-METHYLSTYRENE	17.31	118	217864	8.98	PPBV	99
94) TERT-BUTYLBENZENE	17.59	134	123004	8.54	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.60	105	451931	9.04	PPBV	100

(#) = qualifier out of range (m) = manual integration

W32800.D MW1322.M Wed Aug 17 12:48:47 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32800.D Vial: 2
Acq On : 20 Jul 2011 8:11 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 08:10:53 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : T015W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) m-DICHLOROBENZENE	17.77	146	266189	8.99	PPBV	99
97) BENZYL CHLORIDE	17.75	91	329784	9.35	PPBV	98
98) p-DICHLOROBENZENE	17.85	146	256549	8.79	PPBV	99
99) SEC-BUTYLBENZENE	17.90	134	139574	8.98	PPBV	93
100) p-ISOPROPYLTOLUENE	18.08	134	134178	9.09	PPBV	96
101) o-DICHLOROBENZENE	18.24	146	228874	8.59	PPBV	98
102) n-BUTYLBENZENE	18.57	134	102041	8.41	PPBV	92
103) HEXACHLOROETHANE	19.01	201	143036	8.89	PPBV	97
104) HEXACHLOROBUTADIENE	20.72	225	70763	7.59	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.21	180	53479	8.38	PPBV	99
107) NAPHTHALENE	20.33	128	104341	9.24	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32800.D MW1322.M Wed Aug 17 12:48:47 2011 MSW

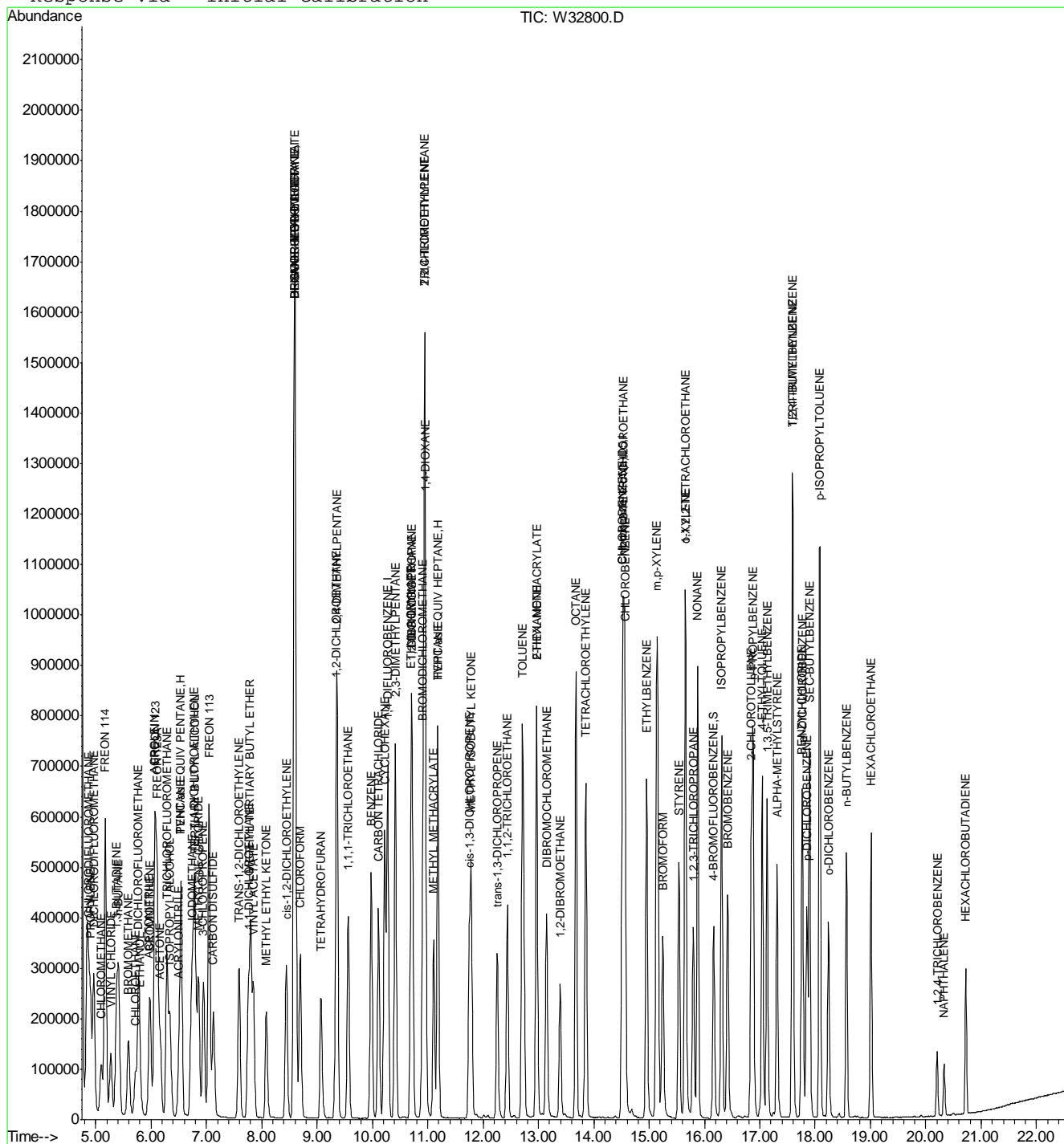
Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32800.D      Vial: 2
Acq On    : 20 Jul 2011   8:11 am                        Operator: YOUMINH
Sample    : CC1322-10                                     Inst  : MSW
Misc      : MS15431,VW1341,,,,,1                        Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21   9:03 2011                          Quant Results File: MW1322.RES

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Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration

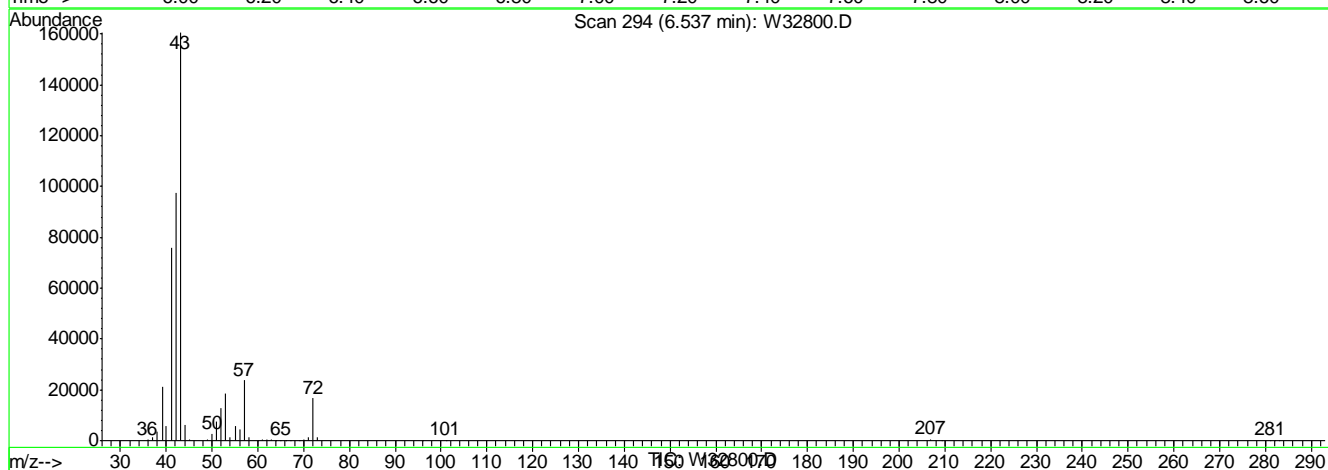
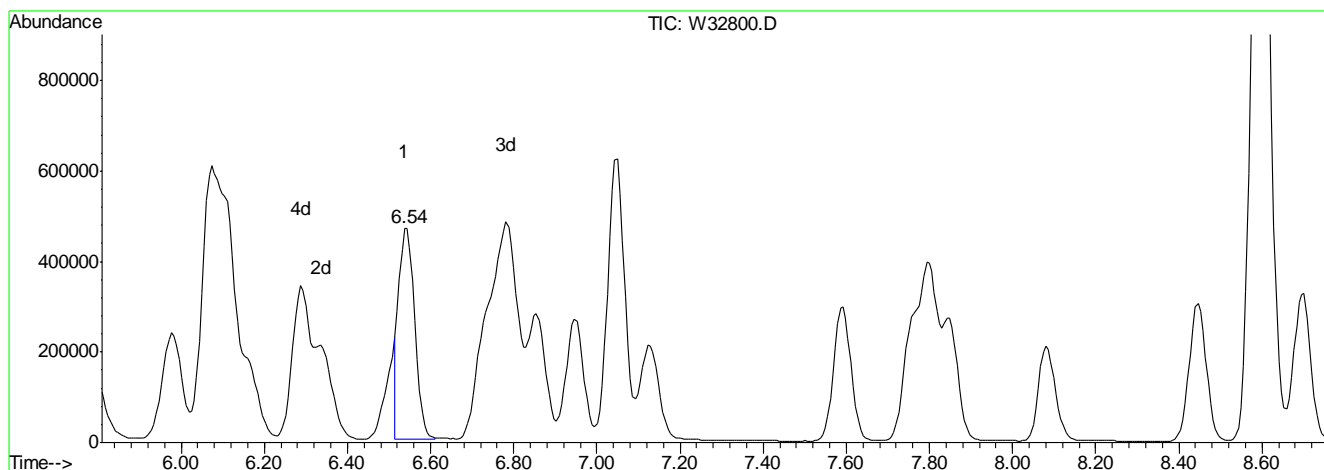


6.7.22

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32800.D Vial: 2
Acq On : 20 Jul 2011 8:11 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.54min 10.20PPBV m

response 1243644

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	1.40	1.11#
------	------	-------

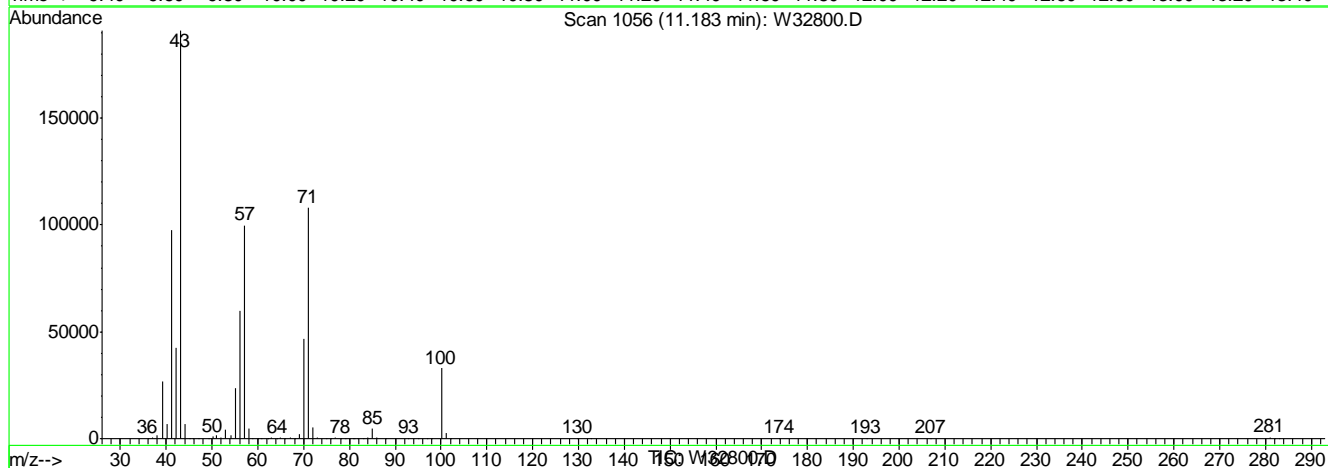
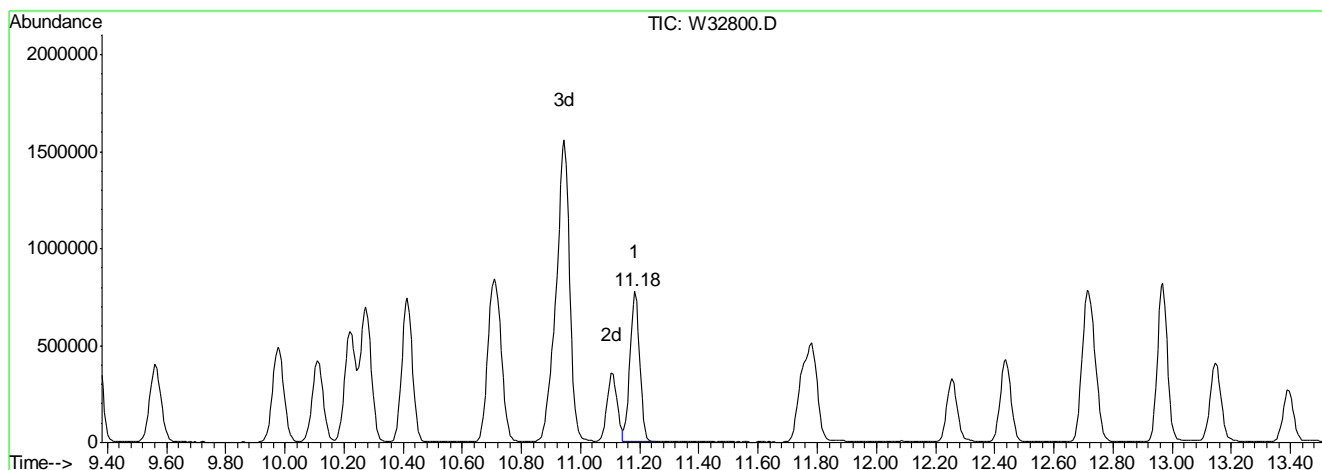
0.00	1.00	0.93#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1341\W32800.D Vial: 2
Acq On : 20 Jul 2011 8:11 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS15431,VW1341,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.18min 10.58PPBV m

response 1775083

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	0.78#
------	------	-------

0.00	0.70	0.65#
------	------	-------

0.00	0.00	0.00
------	------	------

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32829.D Vial: 2
 Acq On : 21 Jul 2011 9:18 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 08:19:49 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.59	128	151689	10.00	PPBV	-0.02
50) 1,4-DIFLUOROBENZENE	10.27	114	746250	10.00	PPBV	-0.02
69) CHLOROBENZENE-D5	14.52	82	365970	10.00	PPBV	-0.03
106) Chlorobenzene-d5(a)	14.52	82	365239	10.00	PPBV	-0.03

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 16.16 95 180821 4.57 PPBV -0.03
 Spiked Amount 5.000 Range 65 - 128 Recovery = 91.40%

Target Compounds

Qvalue

4) CHLORODIFLUOROMETHANE	4.88	67	38736	8.75	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.96	85	399194	8.96	PPBV	99
6) PROPYLENE	4.90	41	175303	9.25	PPBV	98
7) FREON 114	5.17	85	503043	9.63	PPBV	96
8) CHLOROMETHANE	5.10	52	60116	10.42	PPBV	97
9) VINYL CHLORIDE	5.27	62	211784	10.60	PPBV	99
10) 1,3-BUTADIENE	5.38	54	174460	10.43	PPBV	99
11) n-BUTANE	5.42	43	371935	11.24	PPBV	98
12) BROMOMETHANE	5.59	94	168951	9.88	PPBV	100
13) CHLOROETHANE	5.71	64	121544	10.61	PPBV	91
14) DICHLOROFLUOROMETHANE	5.78	67	406374	10.00	PPBV	100
15) ACROLEIN	6.06	56	84170	10.27	PPBV	100
16) FREON 123	6.07	83	446301	10.25	PPBV #	99
17) FREON 123A	6.11	117	242162	9.30	PPBV	87
18) TRICHLOROFLUOROMETHANE	6.29	101	403012	9.47	PPBV	100
19) ISOPROPYL ALCOHOL	6.34	45	395300	10.69	PPBV	98
20) ACETONE	6.17	58	103208	10.64	PPBV	100
21) ACRYLONITRILE	6.51	53	166482	10.89	PPBV	99
22) PENTANE	6.54	57	63738	10.18	PPBV #	94
23) TVHC as EQUIV PENTANE	6.54	TIC	1198495m	10.57	PPBV	
24) IODOMETHANE	6.73	142	427836	9.47	PPBV	100
25) 1,1-DICHLOROETHYLENE	6.77	96	191205	10.00	PPBV	93
26) CARBON DISULFIDE	7.13	76	469137	10.15	PPBV	99
27) ETHANOL	5.81	45	102452	10.55	PPBV	99
28) ACETONITRILE	5.97	41	179994	11.19	PPBV	99
29) BROMOETHENE	5.98	106	171448	9.64	PPBV	99
30) METHYLENE CHLORIDE	6.85	84	176954	9.64	PPBV	91
31) 3-CHLOROPROPENE	6.95	76	94643	10.28	PPBV #	90
32) FREON 113	7.05	151	274018	8.72	PPBV	91
33) TRANS-1,2-DICHLOROETHYLENE	7.59	96	173704	9.68	PPBV	97
34) TERTIARY BUTYL ALCOHOL	6.81	59	449747	10.51	PPBV	99
35) METHYL TERTIARY BUTYL ETHE	7.80	73	485061	9.48	PPBV	97
36) TETRAHYDROFURAN	9.07	72	91242	10.29	PPBV #	90
37) HEXANE	8.60	57	364576	11.04	PPBV	98
38) VINYL ACETATE	7.85	86	49255	9.92	PPBV #	78
39) 1,1-DICHLOROETHANE	7.76	63	362147	10.41	PPBV	99
40) METHYL ETHYL KETONE	8.08	72	90853	9.99	PPBV	93
41) cis-1,2-DICHLOROETHYLENE	8.45	96	190875	9.38	PPBV	97
42) DI-ISOPROPYL ETHER	8.59	45	747616	10.94	PPBV	99
43) ETHYL ACETATE	8.61	61	60468	10.28	PPBV #	86

(#) = qualifier out of range (m) = manual integration

W32829.D MW1322.M Wed Aug 17 12:49:01 2011 MSW

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32829.D Vial: 2
 Acq On : 21 Jul 2011 9:18 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 08:19:49 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Initial Calibration
 DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) METHYL ACRYLATE	8.61	55	374698	10.83	PPBV	97
45) CHLOROFORM	8.70	83	349783	9.87	PPBV	99
46) 2,4-DIMETHYLPENTANE	9.36	57	423829	10.83	PPBV	98
47) 1,1,1-TRICHLOROETHANE	9.56	97	329930	9.35	PPBV	98
48) CARBON TETRACHLORIDE	10.11	117	326944	9.04	PPBV	100
49) 1,2-DICHLOROETHANE	9.34	62	205145	10.02	PPBV	100
51) BENZENE	9.98	78	609115	10.70	PPBV	98
52) CYCLOHEXANE	10.22	84	277419	9.66	PPBV	93
53) 2,3-DIMETHYLPENTANE	10.41	71	152575	10.75	PPBV	95
54) TRICHLOROETHYLENE	10.94	95	227662	10.29	PPBV	95
55) DIBROMOMETHANE	10.71	174	189552	9.42	PPBV	90
56) 1,2-DICHLOROPROPANE	10.72	63	234760	10.95	PPBV	96
57) ETHYL ACRYLATE	10.70	55	407411	10.98	PPBV	98
58) BROMODICHLOROMETHANE	10.91	83	364184	10.36	PPBV	100
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	1137758	11.62	PPBV	99
60) 1,4-DIOXANE	10.96	88	114278	9.89	PPBV #	61
61) METHYL METHACRYLATE	11.11	69	198966	10.24	PPBV	94
62) HEPTANE	11.18	43	418571	11.43	PPBV	94
63) TVHC as EQUIV HEPTANE	11.18	TIC	1686881m	10.59	PPBV	
64) METHYL ISOBUTYL KETONE	11.79	43	431854	10.99	PPBV	96
65) cis-1,3-DICHLOROPROPENE	11.75	75	290007	10.17	PPBV	100
66) TOLUENE	12.71	92	384015	10.05	PPBV	100
67) trans-1,3-DICHLOROPROPENE	12.26	75	262146	9.91	PPBV	99
68) 1,1,2-TRICHLOROETHANE	12.44	83	174280	10.52	PPBV	97
70) ETHYL METHACRYLATE	12.96	69	299395	10.62	PPBV	96
71) 2-HEXANONE	12.97	43	389909	10.78	PPBV	96
72) TETRACHLOROETHYLENE	13.85	164	220159	9.04	PPBV	99
73) DIBROMOCHLOROMETHANE	13.15	129	312529	9.52	PPBV	99
74) 1,2-DIBROMOETHANE	13.40	107	263137	9.64	PPBV	100
75) OCTANE	13.68	43	532563	11.49	PPBV	92
76) 1,1,1,2-TETRACHLOROETHANE	14.55	131	229016	9.45	PPBV #	99
77) CHLOROBENZENE	14.57	112	426834	9.46	PPBV	97
78) ETHYLBENZENE	14.96	91	721384	9.92	PPBV	99
79) m,p-XYLENE	15.15	106	555114	19.68	PPBV	99
80) o-XYLENE	15.66	106	267582	9.82	PPBV	100
81) STYRENE	15.54	104	385895	9.99	PPBV	98
82) 1,2,3-TRICHLOROPROPANE	15.80	75	257010	9.65	PPBV	97
83) NONANE	15.88	43	469496	11.64	PPBV	96
84) BROMOFORM	15.25	173	260198	9.24	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	15.66	83	339972	10.64	PPBV	99
87) ISOPROPYLBENZENE	16.31	105	738287	9.63	PPBV	99
88) BROMOBENZENE	16.42	156	187814	9.37	PPBV	94
89) 2-CHLOROTOLUENE	16.85	126	159162	9.30	PPBV #	95
90) n-PROPYLBENZENE	16.88	120	185338	9.80	PPBV	92
91) 4-ETHYLTOLUENE	17.04	105	633757	9.94	PPBV	99
92) 1,3,5-TRIMETHYLBENZENE	17.13	105	492762	9.34	PPBV	100
93) ALPHA-METHYLSTYRENE	17.31	118	221735	9.45	PPBV	99
94) TERT-BUTYLBENZENE	17.59	134	127240	9.14	PPBV	97
95) 1,2,4-TRIMETHYLBENZENE	17.60	105	463581	9.59	PPBV	100

(#) = qualifier out of range (m) = manual integration

W32829.D MW1322.M Wed Aug 17 12:49:01 2011 MSW

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32829.D Vial: 2
Acq On : 21 Jul 2011 9:18 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 08:19:49 2011 Quant Results File: MW1322.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration
DataAcq Meth : TO15W

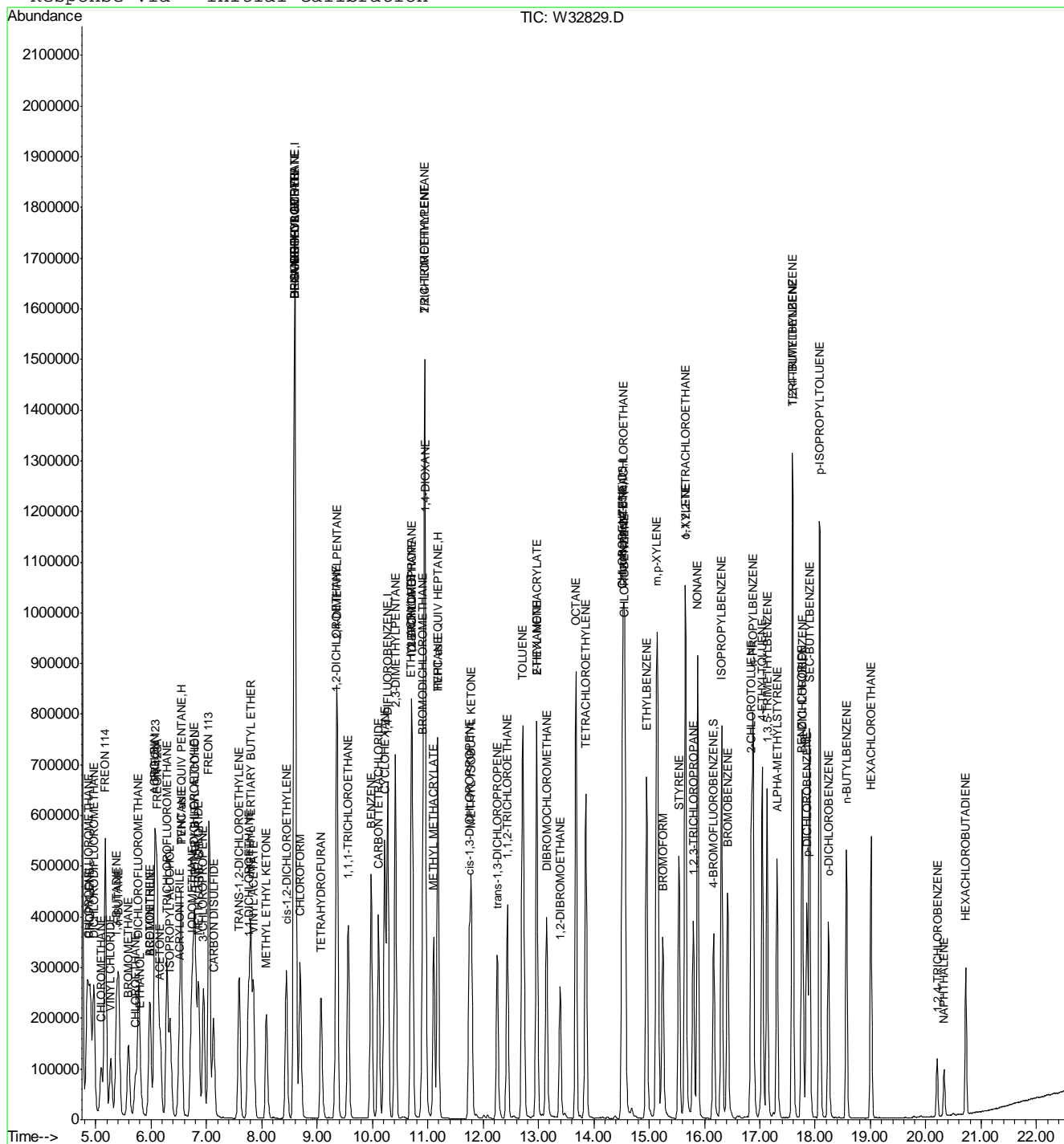
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) m-DICHLOROBENZENE	17.77	146	265163	9.26	PPBV	99
97) BENZYL CHLORIDE	17.75	91	330874	9.70	PPBV	99
98) p-DICHLOROBENZENE	17.85	146	255674	9.06	PPBV	99
99) SEC-BUTYLBENZENE	17.90	134	142417	9.48	PPBV	92
100) p-ISOPROPYLTOLUENE	18.08	134	137101	9.61	PPBV	97
101) o-DICHLOROBENZENE	18.24	146	229785	8.92	PPBV	99
102) n-BUTYLBENZENE	18.57	134	101512	8.65	PPBV	89
103) HEXACHLOROETHANE	19.01	201	140495	9.03	PPBV	95
104) HEXACHLOROBUTADIENE	20.72	225	70649	7.84	PPBV	100
105) 1,2,4-TRICHLOROBENZENE	20.21	180	46616	7.55	PPBV	99
107) NAPHTHALENE	20.33	128	91858	8.40	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W32829.D MW1322.M Wed Aug 17 12:49:01 2011 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32829.D Vial: 2
Acq On : 21 Jul 2011 9:18 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 8:49 2011 Quant Results File: MW1322.RES

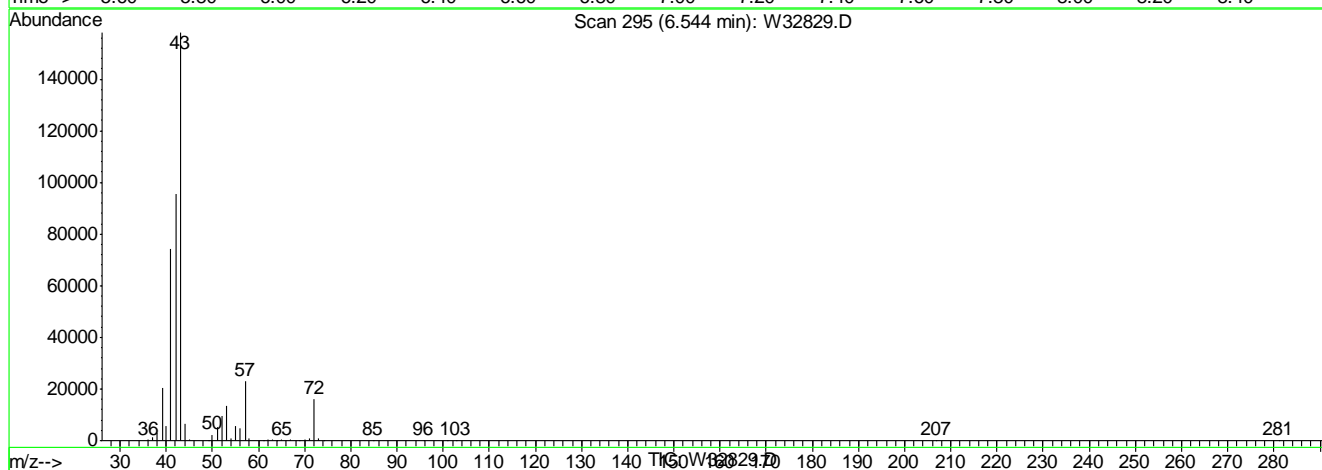
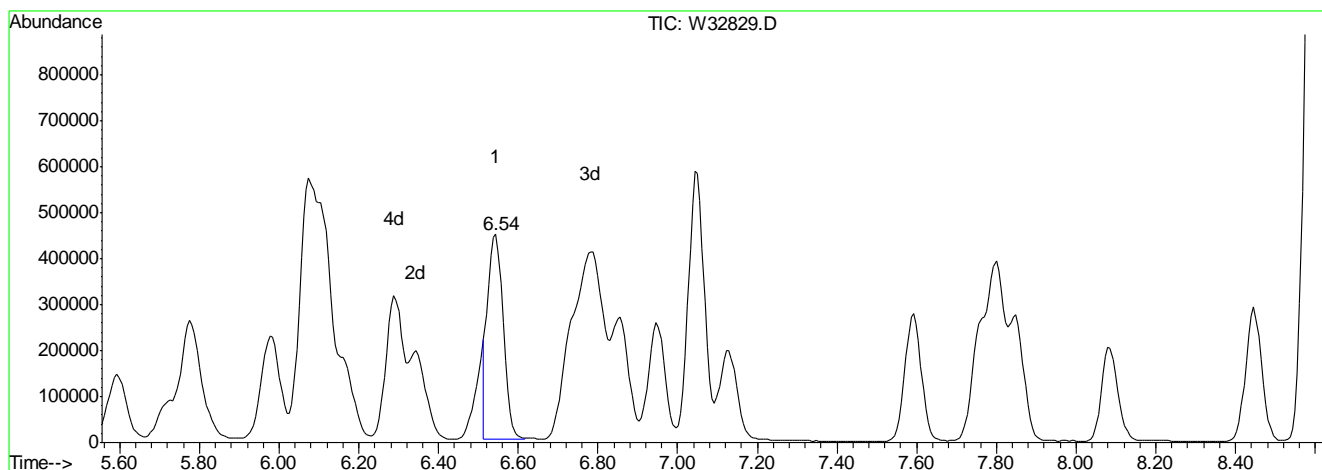
Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32829.D Vial: 2
 Acq On : 21 Jul 2011 9:18 am Operator: YOUMINH
 Sample : CC1322-10 Inst : MSW
 Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 22 8:49 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
 Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
 Last Update : Wed Jun 22 11:25:24 2011
 Response via : Multiple Level Calibration



(23) TVHC as EQUIV PENTANE (H)

6.54min 10.57PPBV m

response 1198495

Signal Exp% Act%

TIC 100 100

0.00 1.40 1.01#

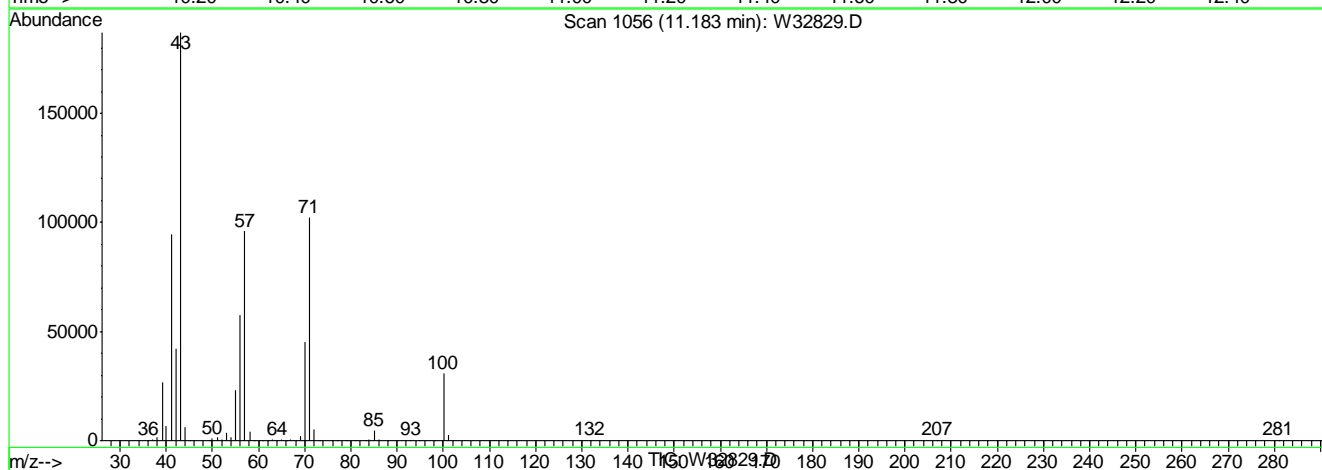
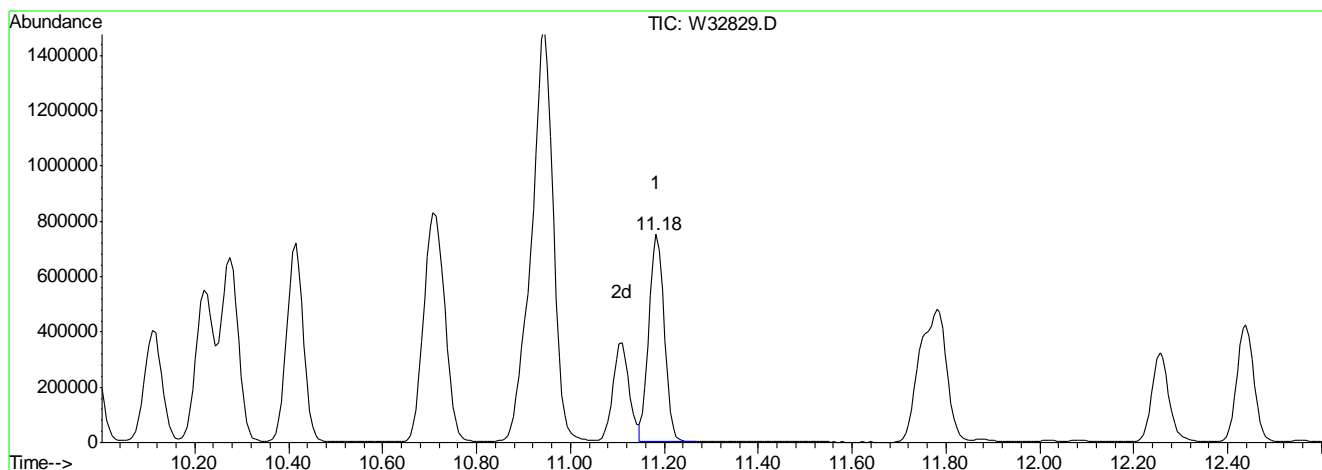
0.00 1.00 0.83#

0.00 0.00 0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\VW1342\W32829.D Vial: 2
Acq On : 21 Jul 2011 9:18 am Operator: YOUMINH
Sample : CC1322-10 Inst : MSW
Misc : MS15431,VW1342,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 8:49 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW1322.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Wed Jun 22 11:25:24 2011
Response via : Multiple Level Calibration



(63) TVHC as EQUIV HEPTANE (H)

11.18min 10.59PPBV m

response 1686881

Signal	Exp%	Act%
--------	------	------

TIC	100	100
-----	-----	-----

0.00	0.90	0.72#
------	------	-------

0.00	0.70	0.59#
------	------	-------

0.00	0.00	0.00
------	------	------

Date: 5/13/11

Analyst Signature: [Signature]

Columns: RTV-1, 60m x 32mm

Method: TO15 3W.M

Seq. File: 3W051311-S

Initial Cal. Method: M3W886

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.
AS4839	TO15 ISISURV	40/20ppbv
AS4850	TO15 LGS	10 ppbv
AS4851	TO15 STD	10 ppbv
AS4852	TO15 STD	1 ppbv

Standard Data

Lot #	Description	Conc.
AS4853	TO15 #1 STD	0.4 ppbv
AS4854	TO15 STD	2 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH

Date: 5/18/11

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W22414	BFB		A960	100					OK	
1	3W22415	IC886-0.2		A981	80			/	/	NG	
2	3W22416	IC886-5		A975	50			/	/	OK	
1	3W22417	IC886-0.5		A981	200			/	/	NG	
2	3W22418	IC886-20		A975	200			/	/	OK	
2	3W22419	IC886-10		A975	100			/	/	OK	
1	3W22420	IC886-1		A981	400			/	/	OK	
1	3W22421	IC886-0.2		A965	40			/	/	OK	
4	3W22422	IC886-0.04		A966	40			/	/	OK	
4	3W22423	IC886-0.1		A966	100			/	/	OK	
2	3W22424	IC886-40		A975	400			/	/	OK	
1	3W22425	IC886-0.5		A965	120			/	/	OK	
6	3W22426	IC886-10		A978	100			/	/	OK	
<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border-left: 2px solid black; border-bottom: 2px solid black;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 24px;"> YX C 5/13/11 </div> </div>											

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

Date: 6/24/11

Analyst Signature: 

Columns: RTX-1 60MX, 32mm

Method: T0153w.M

Seq. File: 36W062411.S

Initial Cal. Method: *M3W886*

AS Data

Method: T015, MPT

Standard Data

<u>Standard Data</u>		
Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 4877	TOISTD	40ppbw
AS 4876	TOISLCS	40ppbw
AS 4861	ISISUR	4020ppbw

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 12/24/14

Supervisor Signature: _____										Date: 6/29/14	
AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	3W23017	BFB		A960	100					OK	
2	3W23018	CC886-10		A975	100			/	/	OK	
3	3W23019	BS		A978	100			/	/	OK	
3	3W23020	BSD		A978	100			/	/	OK	
5	3W23021	MB		A960	400			/	/	OK	
6	3W23022	JAT9105-9 ^{YH}	STD	A875, A539	100	22.1		/	/	OK	
7	3W23023	JAT9105-10 ^{YH}	↓	A771	20	1		/	/	OK	
8	3W23024	SCC		A377	400	1		/	/	OK	
9	3W23025	JAT9105-11	STD	A470	100	1		/	/	OK/OL	RR 200ml
10	3W23026	JAT9105-13		A870	20	1		/	/	OK	
11	3W23027	JAT9105-14		A823	20	1		/	/	OK	
12 ^{SH}	3W23028	JAT9105-17		A641, A537	100	665		/	/	OK	
13	3W23029	JAT9105-18	↓	A442, A675	100	27		/	/	OK	
14	3W23030	JAT9223-1	STD	A350	400	1		/	/	OK/OL	RR 1000ml
14	3W23031	JAT9223-10 ^{up}		A350	400	1		/	/	OK	
15	3W23032	JAT9223-2		A021	400	1		/	/	OK/OL	RR 1000ml
16	3W23033	JAT9223-3 ^{YH}		A984	400	1		/	/	OK	
1	3W23034	JAT9223-4		A002	400	1		/	/	OK	
3	3W23035	JAT9223-5		A876	400	1		/	/	OK	
4	3W23036	JAT9223-6		A105	400	1		/	/	OK	
6	3W23037	JAT9223-7		A1005	400	1		/	/	OK	
7	3W23038	JAT9223-8		A308	400	1		/	/	OK/OL	RR 2000ml
8	3W23039	JAT9223-9		A993	400	1		/	/	OK/OL	RR 2000ml
9	3W23040	JAT9223-10		A503	100	1		/	/	OK	
10	3W23041	JAT9223-11		A724	100	1		/	/	OK	
11	3W23042	JAT9223-12		A573	100	1		/	/	OK	
12	3W23043	JAT9223-13	√	A531	100	1		/	/	OK	
					YH						

All strikeouts must be initial, dated and reason.

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

79

Date: 6/21/11

Analyst Signature: [Signature]

Columns: RTX-1 60M X .32mm

Method: TOIS W.M.

Seq. File: W062111.S

Initial Cal. Method: MW1322.M

AS Data

Method: TD15, MPT

Standard Data

Standard Data		
Lot #	Description	Conc.
AS 4863	IS/SWT	100% 100%

Standard Data

Lot #	Description	Conc.
AS 4886	TO15 LCS	4.0ppbw
AS 4887	TO15 STD	4.0ppbw
AS 4888	TO15 STD	2.0ppbw
AS 4889	TO15 STD	0.4ppbw

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 6/2/11

[illegible]

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error
Form: AT008.05

Form: AT008-05

Rev. Date: 10/20/09

133

Date: 6/22/11

Analyst Signature: *[Signature]*

AS Data

Method: TOIS, MPT

Columns: RTX-160MX, 32mm

Method: TOI W.M

Seq. File: WDP62211.S

Initial Cal. Method: MW1322.M

Standard Data

Standard Data		
Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 4887	TOLSTD	40ppm
AS 4886	TNLSLS	40ppm
AS 4883	ISISLFF	40/20ppm

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 6/23/11

[illegible]


All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

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Date: 6/30/11

Analyst Signature: 

Columns: RTX-160MX .32mm

Method: 7015W.M

Seq. File: W063011.S

Initial Cal. Method: MW1322.M

AS Data

Method: TOLUENE

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 4867	TO15SD	40ppbV
AS 4866	TO15LCS	40ppbV
AS 4863	IS15urr	4010ppbV

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 7/10

[illegible]

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

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Canister Secondary Division Log

[illegible]

Definition:

$$\text{Final DF} = (\text{Original Canister DF}) \times (\text{Secondary Canister DF})$$
$$\text{Dilution Factor at Instrument} = (\text{Final Canister Dilution Factor}) \times (\text{Normal Sampling Volume in cc})$$

Example:

Sample Volume in cc Injected

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is $2 \times 10 = 20$. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is $20(\text{from canister dilution}) \times 20(\text{from instrument dilution}) = 400$

Notes:

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Date: 7/20/11

Analyst Signature: *[Signature]*

Columns: RTX-160MX.32mm

Method: TO15.M

Seq. File: W017011.S

Initial Cal. Method: MLW1322

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 4487	TO15STD	40ppbw
AS 4486	TO15LCS	40ppbw
AS 4483	IS/SURR	4020ppbw

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP E04044.

Supervisor Signature: *[Signature]*

Date: 7/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W32749	BFB		A961	100					OK	
2	W32800	CC1327-10		A971	100			/	/	OK	
3	W32801	BS		A967	100			/	/	OK	
3	W32802	BSD		A967	100			/	/	OK	
5	W32803	MB		A961	100			/	/	OK	
6	W32804	JA81247-1	STD	A969	25	1		/	/	OK	
7	W32805	JA81247-2	↓	A477	25	1		/	/	OK	
8	W32806	SCL		A614	400	1		/	/	RR	Possible C/D
9	W32807	JA81330-1	STD	A190	400	1		/	/	OK/DL	RR 500ml
10	W32808	JA81330-2		A089	400	1		/	/	OK/DL	RR 100ml 1st
11	W32809	JA81330-3		A147	400	1		/	/	OK/DL	RR 100ml
12	W32810	JA81330-4		A661	400	1		/	/	OK/DL	RR 500ml
13	W32811	JA81330-5		A365	400	1		/	/	OK/DL	RR 400ml
13	W32812	JA81330-6 ^{YM}		A365	400	1		/	/	OK	
14	W32813	JA81330-7 ^{YM}		A039	400	1		/	/	OK/DL	RR 100ml
15	W32814	JA81330-7		A358	400	1		/	/	OK/DL	RR 100ml
16	W32815	JA81330-8	↓	A853	400	1		/	/	OK/DL	RR 200ml
1	W32816	JA81330-1	STD	A190	50	1		/	/	OK	
2	W32817	JA81330-2		A089	50	1		/	/	DL	
4	W32818	JA81330-3		A147	100	1		/	/	OK	
6	W32819	JA81330-4	↓	A661	50	1		/	/	OK	
7	W32820	JA81076-1	STD	A236	100	1.55		/	/	DL	
8	W32821	JA81037-1 ^{YM}	STD	A799, A622	100	28.6		/	/	DL	
9	W32822	JA81037-6		A426, A527	100	27.6		/	/	DL	
10	W32823	JA81037-7		A510, A494	100	29.6		/	/	OK	
11	W32824	JA81037-8		A543, A561	100	29.6		/	/	OK	
12	W32825	JA81037-9		A569, A695	100	29		/	/	OK	
13	W32826	JA81037-12	↓	A390, A574	100	28.6		/	/	OK	
5	W32827	SCC		A614	400	1		/	/	OK	

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TO-14/TO-15