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LOCKHEED MARTIN

February 22, 2021

VIA EMAIL AND PRIVATE CARRIER

Mr. Brian Dietz
Program Administrator Land Restoration Program
Land and Material Administration Maryland Department of the Environment
1800 Washington Road, Suite 625
Baltimore, Maryland 21230

Re: Transmittal of the Technical Memorandum: September 2020 Surface Water Sampling Results for Frog Mortar Creek
Martin State Airport, 701 Wilson Point Road
Middle River, Maryland

Dear Mr. Dietz,

For your information, please find enclosed two hard copies of the above-referenced document. This prepared technical memorandum presents sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area at Martin State Airport in Middle River, Maryland.

If you have any questions or require any additional information please contact me by phone at 301-548-2223, or via e-mail at charles.trione@lmco.com.

Sincerely,

Charles Trione
Project Lead, Environmental Remediation
Lockheed Martin Corporation

cc: (via email without enclosure)
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TECHNICAL MEMORANDUM: SEPTEMBER 2020 SURFACE WATER SAMPLING RESULTS FOR FROG MORTAR CREEK MARTIN STATE AIRPORT 701 WILSON POINT ROAD MIDDLE RIVER, MARYLAND

Prepared for:
Lockheed Martin Corporation

Prepared by:
Tetra Tech, Inc.

February 2021

Approved by:

Revision: 0



Michael Martin, P.G.
Regional Manager



Josh Mullis
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ACRONYMS AND ABBREVIATIONS

1,4-DCB	1,4-dichlorobenzene
AWQC	ambient water quality criteria
BTAG	Biological Technical Advisory Group
BTEX	benzene, toluene, ethylbenzene, and xylenes
cis-1,2-DCE	*cis*-1,2-dichloroethene
COMAR	Code of Maryland Regulations
cVOC	chlorinated volatile organic compound
DRA	Dump Road Area
EESH	energy, environment, safety and health
EL	Edwards Lane
GC/MS	gas chromatography/mass spectrometry
GIS	geographic information system
IDW	investigation derived waste
Lockheed Martin	Lockheed Martin Corporation
MAA	Maryland Aviation Administration
MDE	Maryland Department of the Environment
MDANG	Maryland Air National Guard
MSA	Martin State Airport
µg/L	microgram(s) per liter
NOAA	National Oceanic and Atmospheric Administration
NRWQC	national recommended water quality criteria
PDF	portable document format
PPE	personal protective equipment
SVOC	semivolatile organic compound
TB	trip blank
TCE	trichloroethene

Tetra Tech	Tetra Tech, Inc.
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

SECTION 1
INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc., (Tetra Tech) has prepared this technical memorandum presenting sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area (DRA) at Martin State Airport (MSA) in Middle River, Maryland (see Figure 1-1). Surface water was sampled according to the *2020 Surface Water Sampling Work Plan* (Tetra Tech, 2020a). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on September 22, 2020.

This investigation obtained additional chemical and spatial-distribution data for volatile organic compounds (VOCs) in creek surface water that possibly emanate from a groundwater plume at the Dump Road Area of Martin State Airport, or possibly originate from upgradient sources. Results herein are compared to screening levels intended to protect human health and the environment. These data provide information to:

- characterize surface water quality to determine the concentrations and spatial distributions of volatile organic compounds in Frog Mortar Creek
- evaluate the interaction between shallow groundwater and Frog Mortar Creek for numerical modeling
- evaluate the effectiveness of the groundwater treatment system now operating to contain contaminated groundwater at the Dump Road Area
- provide information that can be used to assess ecological risks to aquatic and benthic organisms and human health risks for recreational users of Frog Mortar Creek
- update modeling for shallow-groundwater flow patterns and groundwater discharge to Frog Mortar Creek

This technical memorandum is organized as follows:

Section 2—Site Background and Previous Investigations: Briefly describes the site and previous Frog Mortar Creek investigations.

Section 3—Investigation Approach and Methodology: Presents the technical approach and field methodology used for surface water sampling.

Section 4—Results: Presents the investigation results.

Section 5—Summary: Summarizes the investigation approach and results.

Section 6—References: Cites references used to compile this memorandum.

SECTION 2
SITE BACKGROUND AND PREVIOUS INVESTIGATIONS

Martin State Airport (MSA), located at 701 Wilson Point Road in Middle River, Maryland, is bounded by Frog Mortar Creek to the east and Stansbury Creek to the west (Figure 2-1); both are tidal tributaries of the Chesapeake Bay. The Maryland Aviation Administration (MAA) operates MSA on behalf of the Maryland Department of Transportation. The MSA property (approximately 775 acres) consists of an administration building (the Main Terminal building), aircraft hangars, a 7,000-foot-long runway, and several taxiways. MAA manages more than 130,000 square feet of heated hangar space and 190 smaller aircraft hangars. MSA hosts the Maryland State Police aviation unit, Baltimore County Police aviation and marine units, the Baltimore City Police aviation unit, and the Glenn L. Martin Museum. A portion of MSA is leased to the United States Air Force for use by the Maryland Air National Guard (MDANG). MSA is also home to several commercial tenants that provide fuels and lubricants, helicopter avionics repair, and flight instruction (MAA, 2018).

The area under investigation is Frog Mortar Creek, which is east of and adjacent to the Dump Road Area (DRA) site at MSA (Figures 2-1 and 2-2). The DRA consists mostly of open meadows, mowed grass, and heavily wooded areas (as modified by the construction of the groundwater extraction and treatment system noted below); however, it also includes a portion of Taxiway Tango and extends to the airport runway. Taxiway Tango is a concrete and asphalt taxiway used by MDANG for military aircraft operations. The airport runway is also used by state-owned and private aircraft.

An extraction and treatment system for DRA groundwater was constructed in 2017 and is currently operational at the DRA site. This system consists of 16 groundwater extraction wells, underground piping, and a building that houses components to capture and treat groundwater containing volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. The wells

and underground piping pump groundwater from the surficial aquifer to the aboveground treatment building, creating a "hydraulic barrier" that captures groundwater and prevents contaminants from migrating off-site. The treatment building is 60 feet wide and 170 feet long (10,200 square feet) and is near Frog Mortar Creek in the eastern-central portion of the DRA (Figure 2-2). Treated groundwater is tested routinely and subsequently discharged to Frog Mortar Creek via a Maryland Department of the Environment (MDE)-permitted outfall.

Detailed environmental studies have been conducted at the DRA since 1991, when MAA removed drums discovered near Taxiway Tango (Figure 2-2). Subsequent environmental studies at MSA have demonstrated that soil, pond sediment, and groundwater at the DRA have been impacted by VOCs, SVOCs, and metals resulting from historical dumping and backfilling. The following constituents (including several metals) have been detected in DRA groundwater at concentrations exceeding state groundwater standards:

- ***chlorinated VOCs*** (cVOCs)—including trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC)
- ***petroleum-related VOCs***—such as benzene, toluene, ethylbenzene, and xylenes (BTEX)
- ***1,4-dioxane***—although Maryland does not have a groundwater standard for this compound, concentrations at the site have exceeded standards proposed or promulgated by other states
- ***metals***—arsenic, barium, beryllium, cadmium, chromium, copper, hexavalent chromium (in two wells, in 2008 only), iron, lead, manganese, mercury, nickel, selenium, thallium, vanadium, and zinc

Frog Mortar Creek is hydraulically downgradient of and receives groundwater discharging from the DRA. The constituents listed above have been detected in surface water samples collected from Frog Mortar Creek. Surface water samples have been collected from Frog Mortar Creek since 1997, and multiple rounds of samples have been collected annually since 2010. Studies at Frog Mortar Creek from 1997–2019, and details of the area's physical setting, land use, physiography, and surface/subsurface conditions (i.e., soils, hydrology, and geology), are summarized in the *2019 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2020b), and therefore are not repeated herein.

SECTION 3
INVESTIGATION APPROACH AND METHODOLOGY

Previous surface-water sampling data for Frog Mortar Creek support the need for ongoing monitoring to assess the extent to which surface water is affected by groundwater discharged from the Dump Road Area (DRA). The September 2020 data will support this ongoing effort and will also be used to assess the effectiveness of the extraction, containment, and treatment system. The chlorinated volatile organic compounds (cVOCs) trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC), and several metals, have previously been detected in Frog Mortar Creek surface water samples at concentrations exceeding ecological and/or human health screening-criteria; these analytes have also been detected in groundwater at the DRA.

Detected chemical concentrations in surface water obtained from Frog Mortar Creek were evaluated by comparing them to United States Environmental Protection Agency (USEPA) or Maryland screening levels and site-specific screening levels. These screening criteria include USEPA national recommended water quality criteria (NRWQC), Maryland ambient water quality criteria (AWQC), USEPA Biological Technical Advisory Group (BTAG) surface water screening-benchmarks, and site-specific screening levels for swimming developed by Lockheed Martin Corporation (Lockheed Martin). The September 2020 sampling is the fifth of six surface-water sampling rounds planned for 2020. The September sampling round assessed water quality during the end of the summer season, when recreational use of Frog Mortar Creek would be expected.

3.1 SURFACE WATER SAMPLING

3.1.1 Surface Water Sampling and Chemical Analyses

Thirty-two surface water samples were collected from Frog Mortar Creek adjacent to the DRA site on September 22, 2020. Sampling locations are shown in Figure 3-1. Four samples were collected along each of seven transects spaced approximately 350 feet apart along the western shoreline of

the creek; these transects are designated MSA-SW37, MSA-SW38, MSA-SW40, MSA-SW41, MSA-SW42, MSA-SW43, and MSA-SW44. Historically, transects SW39 (the northernmost transect) and SW45 (the southernmost transect) were also included in the sampling program, but these two transects were removed from the 2020 surface water sampling program, as the remaining seven transects fully cover the extent of the targeted area east of the Dump Road Area. In addition, a transect on the eastern shoreline of Frog Mortar Creek, the Edward Lane transect, has also been historically sampled. The Edwards Lane transect (EL-01A through D) was sampled during the June 2020 round; which is the only time it was be sampled last year. Results from the Edwards Lane transect in June 2020 were nondetect.

Four additional near-shore samples were collected between transects MSA-SW42 and MSA-SW40 (MSA-SW46A), MSA-SW40 and MSA-SW38 (MSA-SW47A), MSA-SW38 and MSA-SW41 (MSA-SW48A), and MSA-SW41 and MSA-SW43 (MSA-SW49A). These four locations were first sampled in July 2015 to assess constituent concentrations between transects exhibiting the highest VOC concentrations, and were also included in the September 2020 sampling round.

Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). All samples were collected approximately one foot below the water surface. All sampling locations were located using a handheld global positioning system receiver.

Table 3-1 outlines the sampling and chemical analysis program. Samples from the seven western shoreline transects (MSA-SW37, SW38, SW40, SW41, SW42, SW43, and SW44) and SW46A through SW49A were analyzed for VOCs by USEPA SW846 Method 8260C (including Freon 113 [1,1,2-trichloro-1,2,2-trifluoroethane], Freon 22 [chlorodifluoromethane], and tentatively identified compounds).

Historically, western shoreline samples were also analyzed for hexavalent chromium and dissolved metals; however, these analytes were removed from the 2020 surface water sampling program. Water quality parameters (including temperature, pH, specific conductance, salinity, turbidity,

dissolved oxygen, and oxidation-reduction potential) were measured and recorded at the time of sampling, as was the water depth at all surface-water sampling locations. Sampling information was documented on sample log sheets (see Appendix A).

Water depth measurements were also obtained from the staff gauge at 3301 Edwards Lane before sampling (0.55 meters [1.8 feet] at 0803 hours) and after sampling (0.46 meters [1.5 feet] at 1051 hours). Mean tidal-flux in the Middle River, Maryland, area is approximately 1.6 feet (National Oceanic and Atmospheric Administration [NOAA], 2015). A 2011 study by Lockheed Martin sought to ascertain the effects of tides and sampling depths on contaminant concentrations in Frog Mortar Creek (Tetra Tech, 2012). The tidal phase relative to the time of sample collection appears to influence the VOC concentrations detected, particularly in the samples collected 50 feet from shore. In general, VOC concentrations in "B-series" samples (collected 50 feet from shore) were greater at low tide than at high tide, irrespective of sampling depth. Therefore, during this sampling round, all samples were collected during low tide.

Samples were collected as grab samples from approximately one foot below the water surface using the direct-fill sampling technique. VOC samples were collected using a stainless steel discrete-interval sampler (also known as a "bacon bomb" sampler). The sampler was lowered to approximately one foot below the water surface, the check valve was engaged to allow the sampler to fill, the sampler was then brought to the surface, and the water was removed through a valve to fill three laboratory-cleaned, hydrochloric-acid preserved, 40-milliliter sample vials. The discrete-interval sampler was cleaned after each use by rinsing it with distilled water over the creek. No decontamination fluids were collected during this sampling.

No duplicate samples were collected during this sampling round. A trip blank (one per cooler containing VOC samples) was submitted for VOC analysis for quality assurance/quality control purposes.

3.1.2 Documentation

A master site logbook was maintained as an overall record of site field activities. Sample documentation includes completed chain of custody forms and surface-water-specific sample log-sheets. Chain of custody forms are standardized to summarize and document pertinent sample

information, such as sample identification and type, matrix, date and time of collection, preservation, and the analysis requested. Sample-custody procedures document sample acquisition and integrity. September 2020 log sheets for surface water samples are in Appendix A. Chain of custody forms, the data-validation report, and the full laboratory report are in Appendix B (on compact disc).

3.1.3 Sample Nomenclature and Handling

Surface water samples collected from western shoreline transects are identified with a unique sample-identification tag. Surface water samples are labeled with an "MSA-SW" prefix, followed by the sample transect number, the profile location ("A," "B," "C," or "D"), and the six-digit sampling date. For example, the surface water sample collected on September 22, 2020 from MSA-SW37A is labeled "MSA-SW37A-092220." The trip blank is labeled with a "TB" prefix followed by the sample's six-digit submittal date (e.g., TB-092220).

Sample handling includes field-related considerations concerning the selection of sample containers, preservatives, allowable holding times, and analyses requested. Proper custody procedures were followed throughout all phases of sample collection and handling. Chain of custody protocols were used throughout sample handling to assure the evidentiary integrity of sample containers. These protocols demonstrate that the samples were handled and transferred in a manner that would prevent or detect possible tampering.

Sample containers were released under signature from the laboratory and accepted under signature by the sampler(s) or other individual(s) responsible for maintaining custody, until the sample containers could be transferred to the sampler(s). Transport containers returning to the laboratory were sealed with strapping tape and a tamper-resistant custody seal. The custody seal contains the signature of the individual releasing the transport container, along with the date and time.

3.1.4 Equipment Decontamination

This project required minimal equipment decontamination. Both dedicated and disposable equipment were used for surface water sampling, to reduce the need for decontamination and eliminate potential cross-contamination of samples. The discrete-interval sampler was cleaned

after each use by rinsing with distilled water. Equipment was cleaned over the (creek) water after each sample had been collected. No decontamination fluids were collected during sampling.

3.1.5 Waste Management

Investigation derived waste (IDW) consisted of personal protective equipment (PPE) generated during field sampling. PPE IDW was brushed off, placed in trash bags, and disposed of in a facility trash receptacle designated by facility personnel.

3.2 DATA MANAGEMENT

Laboratory data-handling procedures met the requirements of the laboratory subcontract. All analytical and field data are maintained in project files, including copies of chain of custody forms, sample log forms, sampling location maps, and documentation of quality assurance and data corrections.

3.2.1 Data Tracking and Control

A sample tracking system was used from the beginning to the end of sampling. The field operations leader began and coordinated sample tracking before mobilizing the sampling team to the field. Preprinted sample-container labels generated before fieldwork began were reviewed to ensure that they were accurate and adhered to work plan requirements. The project manager coordinated with the analytical laboratory to ensure that the laboratory was aware of the number and type of samples and analyses that would be submitted.

During field sampling, the field operations leader forwarded the chain of custody to a designated project assistant and to the laboratory. The project assistant confirmed that the chain of custody provided the information required by the work plan. This allowed early detection of errors made in the field so that adjustments could be made before sample analyses.

After successful completion of all requested analyses, the laboratory submitted an electronic deliverable for each sample delivery group. When all electronic deliverables had been received from the laboratory, the project assistant checked the laboratory submittal to determine whether the laboratory had performed all analyses requested. All analyses requested for this project were performed.

3.2.2 Sample Information

Data from field measurements were recorded using appropriate sample log sheets and were summarized in tabular form, as were the raw instrument-data from the laboratory. The field operations leader verified field data daily; laboratory data were verified by the group supervisor and then by the laboratory's quality control/documentation department. Sample log sheets are in Appendix A.

3.2.3 Project Data Compilation

The analytical laboratory generated an Adobe Acrobat® portable document format (PDF) file of the analytical data package, as well as an electronic database deliverable. The electronic database was checked against the PDF file provided by the laboratory and updated as required, based on data-qualifier flags applied during data validation. All data, such as units of measure and chemical nomenclature, were corrected as necessary to be consistent with the project database.

3.2.4 Geographic Information System

Data management systems for this investigation consisted of a relational database and geographic information system (GIS) to manage environmental information pertaining to MSA housed in the Lockheed Martin environment, safety and health (ESH) GIS system. The relational database stores chemical, geological, hydrogeological, and other environmental data collected during environmental investigations. The GIS, created from the relational database, contains subsets of the larger data pool. The GIS allows environmental data to be posted onto base maps to graphically represent project information. Compiled sampling, chemical, and positional data from this investigation were incorporated into the ESH GIS system.

3.3 DATA REVIEW

Data from the laboratory were entered into a sample database and evaluated against risk-based criteria. Data were validated (to evaluate data completeness, holding times, calibrations, precision, accuracy, laboratory and field-blank contamination, and detection limits) concurrent with the data evaluation. These reviews were based on USEPA national functional guidelines for organic data review (USEPA, 2017) and the specifics of the analytical methods used. Data from this sampling event consist of chemical results for surface water samples. Data-validation reports, full laboratory

reports, and chain of custody forms are in Appendix B (on compact disc) as PDF files. A table with all analytical data for September 2020 Frog Mortar Creek surface water samples, including nondetects, is in Appendix C.

Collectively, these data are acceptable for their intended uses (site characterization and risk assessment). The data qualifiers (i.e., flags) listed below were applied to the chemical results presented in this report. Several flags appear in the chemical-results tables in Section 4, and all flags appear in Appendices B and C:

J The analyte is considered present in the sample but at an estimated value that may not meet highest accuracy or precision standards. In this program, samples were qualified with "J" because quantitation was above the method detection limit but below the laboratory reporting-limit.

U Not detected; the analyte is considered not detected at the reported value.

NJ The analyte was tentatively identified as present, and the reported value is the estimated concentration in the sample.

SECTION 4
RESULTS

4.1 SURFACE WATER DATA AND SCREENING CRITERIA

Validated chemical data from the Frog Mortar Creek surface water samples collected in September 2020 were used to generate a statistical summary table (Table 4-1), a table summarizing positive detections of chemical analytes (Table 4-2), and a comparison table (Table 4-3) showing trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC) results from the September 2019, August 2020, and September 2020 sampling rounds. Samples collected from transects, including single-sample transect locations SW46A–SW49A, were analyzed for volatile organic compounds (VOCs) (including fuel-related compounds such as benzene, toluene, ethylbenzene, and xylenes [BTEX] and tentatively identified compounds [TICs]). Two VOCs were detected at low concentrations during the September 2020 sampling round: *m*+*p* xylenes and toluene. Table 4-2 compares surface-water sampling results to several applicable screening criteria, including:

- United States Environmental Protection Agency (USEPA) Region 3 Biological Technical Advisory Group (BTAG) freshwater screening-benchmarks (USEPA, 2006)
- USEPA national recommended water quality criteria (NRWQC) for freshwater acute and chronic aquatic-organism exposures, and NRWQC for human health aquatic-organism-consumption (USEPA, 2019)
- Maryland ambient water quality criteria (AWQC) for acute and chronic aquatic-organism exposures, and AWQC for human health aquatic-organism-consumption (Code of Maryland Regulations [COMAR], 2016)
- site-specific screening levels for swimming developed for TCE, *cis*-1,2-DCE and VC

Site-specific screening levels for swimming for TCE, *cis*-1,2-DCE, and VC were developed by Lockheed Martin Corporation (Lockheed Martin) at the request of the Maryland Department of the Environment (MDE); these values are used to assess risks posed to recreational users of Frog Mortar Creek. These screening levels were developed to protect the health of swimmers near the

Dump Road Area (DRA) shoreline, assuming they have long-term exposure to surface water (i.e., assumed four hours of swimming per day, 70 days per year, for 30 years). These swimming criteria are used because they provide the most conservative (i.e., most protective of human health) screening levels for Frog Mortar Creek.

A table summarizing analytical data, including nondetect results and detection limits, is attached as Appendix C. Since all data discussed herein share the "MSA" prefix, it is dropped when referring to transects or samples (e.g., "SW39" refers to transect MSA-SW39), to improve readability.

4.2 VOLATILE ORGANIC COMPOUND SURFACE WATER SAMPLING RESULTS

Two VOCs (*m*+*p* xylenes, and toluene) were detected in a single sample (SW40D) at low estimated (*J*-qualified) concentrations (0.16*J* µg/L micrograms per liter [µg/L] for *m*+*p* xylenes, and 0.18*J* µg/L for toluene) during the September 2020 surface water sampling event. The September 2020 analytical results are summarized below and in Tables 4-1 and 4-2. Table 4-3 and Figure 4-1 compare September 2020 results for TCE, *cis*-1,2-DCE, and VC to results detected during the previous sampling round (August 2020) and the sampling round from one year ago (September 2019).

A TIC search was performed for the compound chlorodifluoromethane. Chlorodifluoromethane was not detected in any sample. An unknown TIC was detected at an estimated concentration of 3.5NJ µg/L in sample SW40A.

4.2.1 Trichloroethene Results

TCE was not detected during the current sampling round (September 2020) and therefore did not exceed any screening level (i.e., swimming criterion of 10 µg/L). The nondetect results observed during this round are consistent with the decreasing trend of TCE observed in Frog Mortar Creek since March 2019. TCE was detected at five locations (SW43A-C, SW46A, and SW49A) during the March 2019 sampling round, but was nondetect during the remaining five sampling events in 2019 (June, July, August, September, and December), as well as during the first five sampling events last year (March, June, July, August, and September 2020).

4.2.2 *cis*-1,2-Dichloroethene Results

cis-1,2-DCE was not detected at any of the 32 sampling locations in September 2020, and therefore did not exceed its lowest screening level (i.e., swimming criterion of 300 µg/L) at any location.

cis-1,2-DCE was not detected during two earlier sampling rounds in 2020 (June and July) or during last year's (September 2019) round and therefore did not exceed its lowest screening level (i.e., the swimming criterion of 300 µg/L). However, *cis*-1,2-DCE was detected at low estimated (*J*-qualified) concentrations at three of 32 locations during the March 2020 sampling round, ranging from 0.22 µg/L to 0.38 µg/L, and at four of 32 locations during the previous sampling round (August 2020), at concentrations ranging from 0.42 µg/L to 0.72 µg/L.

When detected in previous rounds, the distributions of *cis*-1,2-DCE in the higher concentration transects tended to decrease with increasing distance from the shore. This trend was observed in March 2020, as *cis*-1,2-DCE concentrations at transect SW42 decreased with increasing distance from the shore, with concentrations of 0.38 µg/L (SW42A), 0.28 µg/L (SW42B), 0.22 µg/L (SW42C), and nondetect (SW42D). This trend was also supported during the August 2020 sampling event as all detected *cis*-1,2-DCE concentrations were located at near-shore locations (SW38A, SW46A, SW47A, and SW49A).

4.2.3 Vinyl Chloride Results

VC was not detected at any of the 32 sampling locations in September 2020, and therefore did not exceed its lowest site-specific screening criterion (swimming) of 0.7 µg/L.

VC was not detected during two earlier sampling rounds in 2020 (June and July), but was detected at seven of 32 sampling locations in March 2020, with concentrations ranging from 0.21 µg/L to 1.0 µg/L, with the maximum concentration exceeding the swimming criterion (0.7 µg/L) at location SW42A. VC was also detected at concentrations ranging from 0.51 µg/L to 0.61 µg/L during the previous sampling round (August 2020) at three of 32 sampling locations.

VC was not detected during the September 2019 sampling round. The highest detection of VC in 2019 (3.3 µg/L) did exceed the site-specific screening level, as did two other locations during the

March 2019 sampling event. VC was not detected during the remaining sampling rounds in 2019 (i.e., in July, August, September, or December 2019).

When detected in previous rounds, the distributions of VC in the higher concentration transects tended to decrease with increasing distance from the shore. Although VC was nondetect in June and July 2020, this trend was last observed in March 2020, as VC concentrations at transect SW42 decreased with increasing distance from the shore, with concentrations of 1.0 µg/L (SW42A), 0.64 µg/L (SW42B), 0.50 µg/L (SW42C), and 0.26 µg/L (SW42D). VC was detected at two near-shore sampling locations (SW38A and SW46A) and at one location 150 feet from shore (SW37C) during the August 2020 sampling round.

4.2.4 Tentatively Identified Compound Results

As stated earlier, a TIC search was performed for chlorodifluoromethane, and the compound was not detected in any sample. However, an unknown TIC was detected in one sample (SW40A at 3.5 NJ µg/L). The detection was qualified as estimated because the detection limit is an estimated value.

SECTION 5
SUMMARY

The Lockheed Martin Corporation September 2020 Frog Mortar Creek surface-water investigation results are summarized below:

- Thirty-two surface water samples were collected on September 22, 2020, and chemically analyzed to assess concentrations of chemical constituents in Frog Mortar Creek, and particularly to evaluate creek surface-water quality near the Dump Road Area (DRA). Each sample was collected at approximately one foot below the water surface.
- Samples were collected along seven transects spaced approximately 350 feet apart (for 28 samples) along the western shoreline of Frog Mortar Creek. Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). In addition to the samples collected along transects, four single point shoreline samples were collected, including SW46A (between transects SW42 and SW40), SW47A (between transects SW40 and SW38), SW48A (between transects SW38 and SW41), and SW49A (between transects SW41 and SW43), for a total of 32 samples.
- Samples collected in September 2020 from Frog Mortar Creek were analyzed for volatile organic compounds (VOCs).
- The data were validated in accordance with the United States Environmental Protection Agency (USEPA) Region III Modifications to the National Functional Guidelines for Data Review (USEPA, 2017), and the specifics of the analytical methods used.
- Sampling results were screened against (1) United States Environmental Protection Agency Region 3 Biological Technical Advisory Group (BTAG) ecological screening-benchmarks for freshwater; (2) United States Environmental Protection Agency national recommended water quality criteria (NRWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; (3) Maryland ambient water quality criteria (AWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; and (4) site-specific screening levels developed to evaluate risks to recreational swimmers from exposure to the three most frequently detected volatile organic compounds in surface water: trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC).

- Two VOCs, including *m*+*p* xylenes and toluene, were detected at low estimated (*J*-qualified) concentrations in the September 2020 sampling round. All detected concentrations were below respective water quality screening criteria.
- The next surface water sampling event occurred in December 2020.

SECTION 6
REFERENCES

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FIGURES

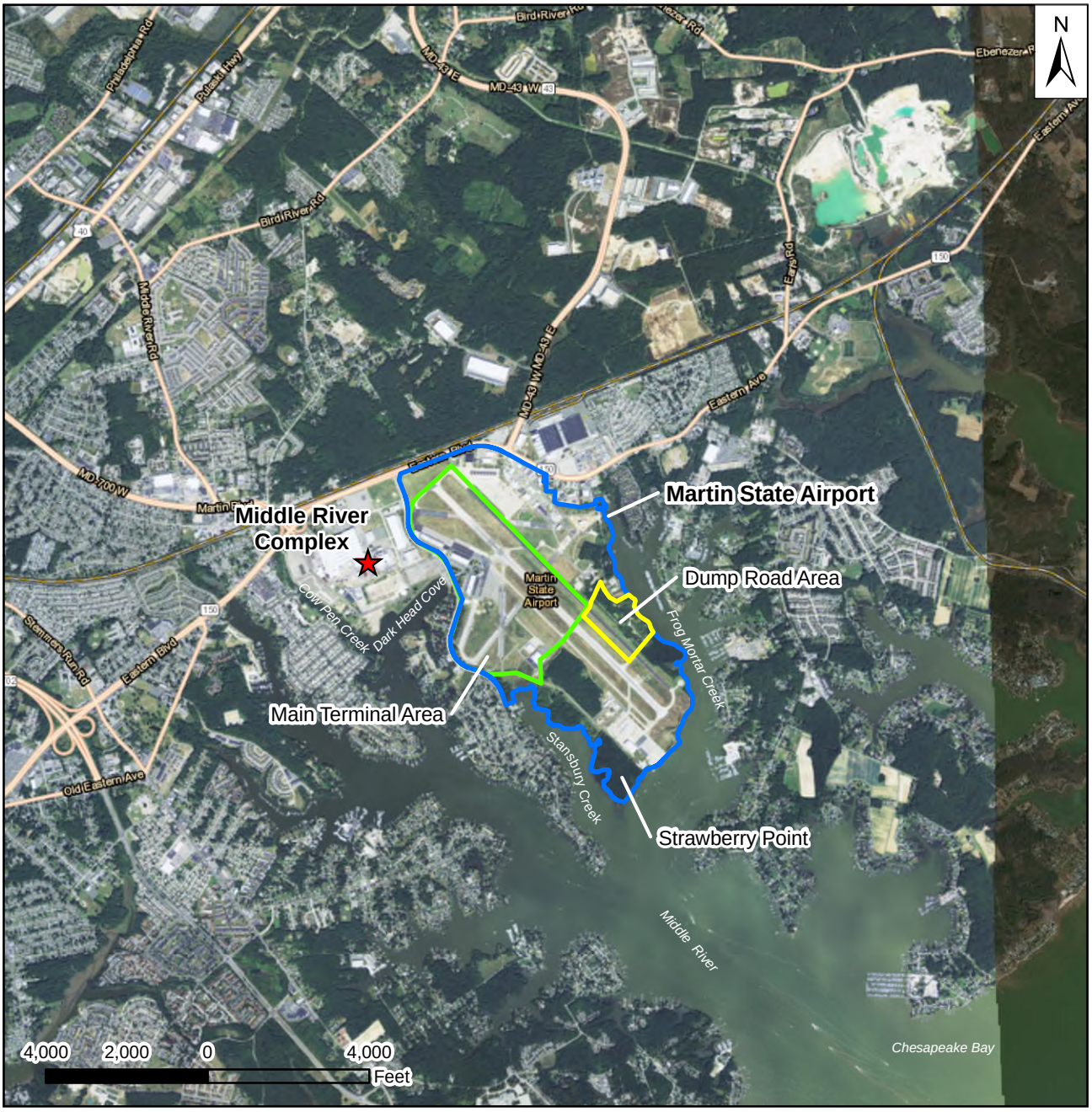
Figure 1-1 Martin State Airport, Site Location Map

Figure 2-1 Martin State Airport and Surrounding Features

Figure 2-2 Site Features and Areas of Concern, Dump Road Area

Figure 3-1 September 2020 Surface Water Sampling Locations, Frog Mortar Creek

Figure 4-1 Concentrations of Trichloroethene, cis-1,2-Dichloroethene, and Vinyl Chloride along Surface Water Sampling Transects for September 2019, August 2020, and September 2020, Frog Mortar Creek



Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2013 ESRI and its data suppliers).

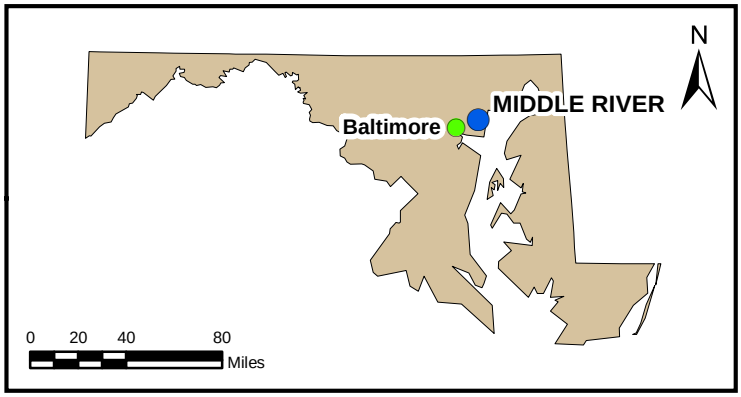


FIGURE 1-1

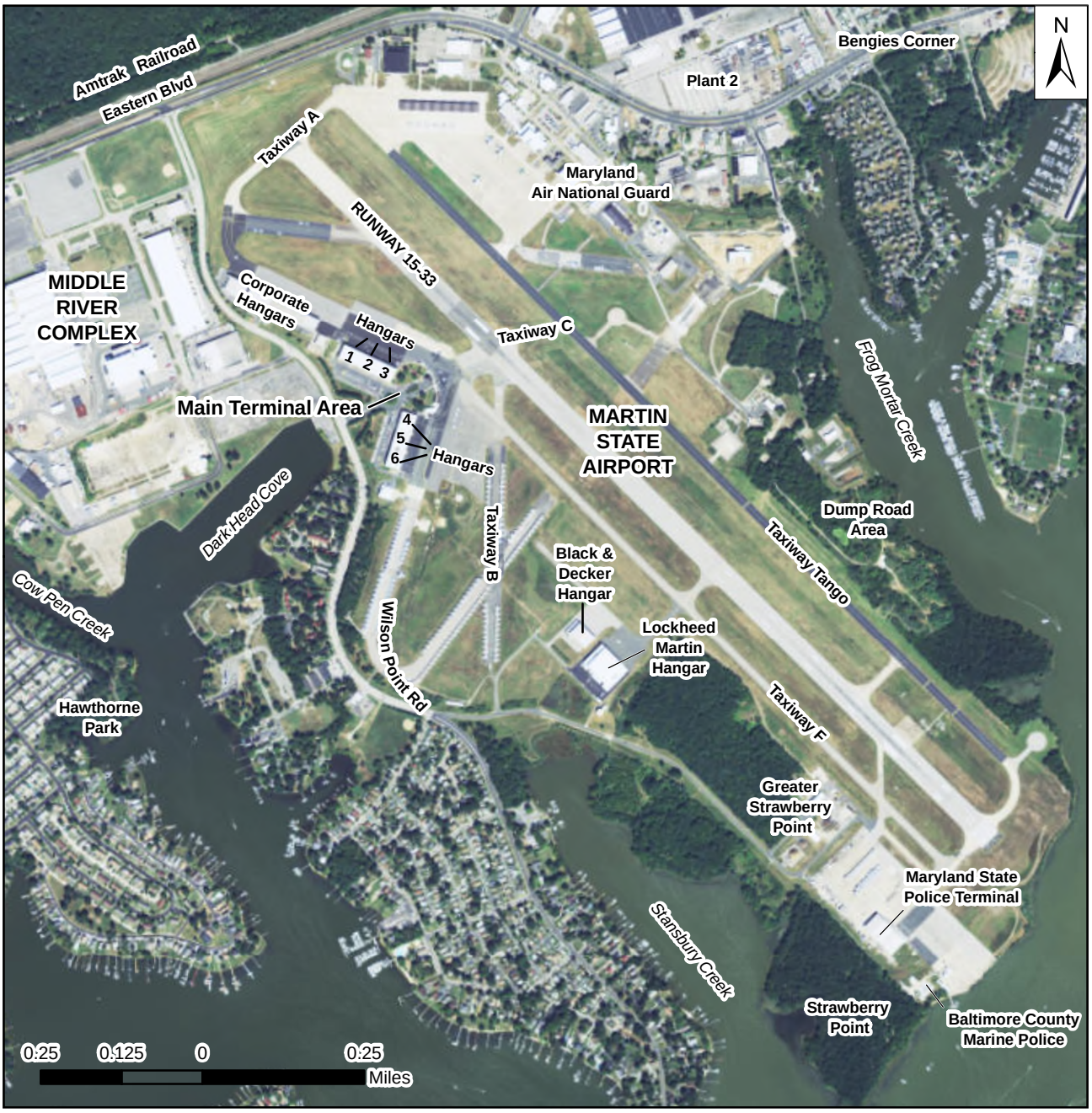
MARTIN STATE AIRPORT
SITE LOCATION MAP

Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
12/16/15	JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\msa_overview_dec2015.mxd)
12/16/15 -- JEE



Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2013 ESRI and its data suppliers).

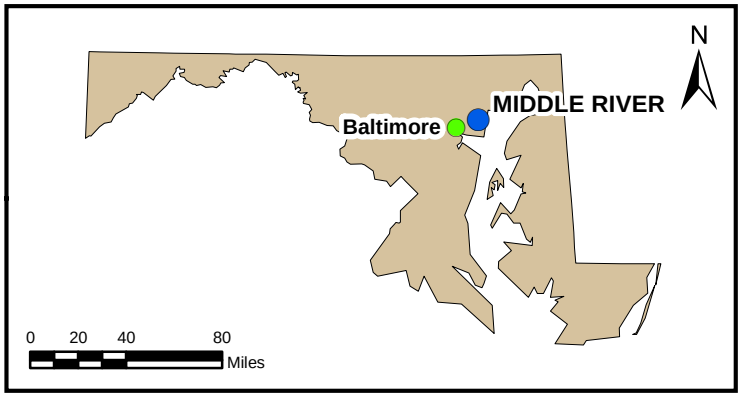


FIGURE 2-1

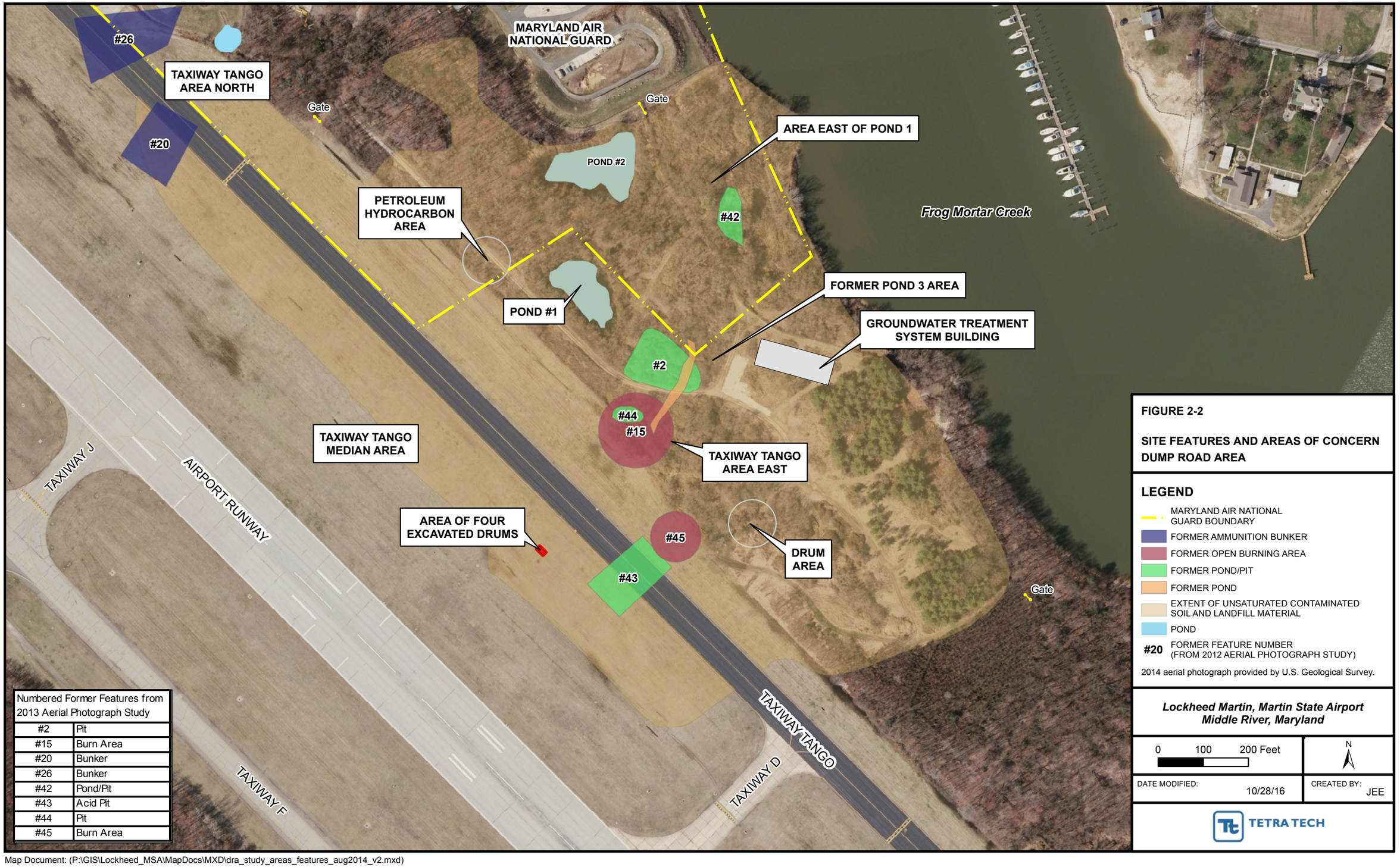
MARTIN STATE AIRPORT AND SURROUNDING FEATURES

Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
08/27/15	JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\msa_features_sitemap_jul2015.mxd)
08/27/15 -- JEE



Numbered Former Features from 2013 Aerial Photograph Study	
#2	Pit
#15	Burn Area
#20	Bunker
#26	Bunker
#42	Pond/Pit
#43	Acid Pit
#44	Pit
#45	Burn Area

FIGURE 2-2

SITE FEATURES AND AREAS OF CONCERN DUMP ROAD AREA

LEGEND

- MARYLAND AIR NATIONAL GUARD BOUNDARY
- FORMER AMMUNITION BUNKER
- FORMER OPEN BURNING AREA
- FORMER POND/PIT
- FORMER POND
- EXTENT OF UNSATURATED CONTAMINATED SOIL AND LANDFILL MATERIAL
- POND
- #20 FORMER FEATURE NUMBER (FROM 2012 AERIAL PHOTOGRAPH STUDY)

2014 aerial photograph provided by U.S. Geological Survey.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 100 200 Feet

N

DATE MODIFIED: 10/28/16

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\dra_study_areas_features_aug2014_v2.mxd)
10/28/16 -- JEE



FIGURE 3-1

SEPTEMBER 2020 SURFACE WATER SAMPLING LOCATIONS FROG MORTAR CREEK

LEGEND

- SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- OUTLINE OF FORMER COVE
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- EXTENT OF UNSATURATED CONTAMINATED SOIL AND LANDFILL MATERIAL - DUMP ROAD AREA
- POND

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

DATE MODIFIED: 12/14/20

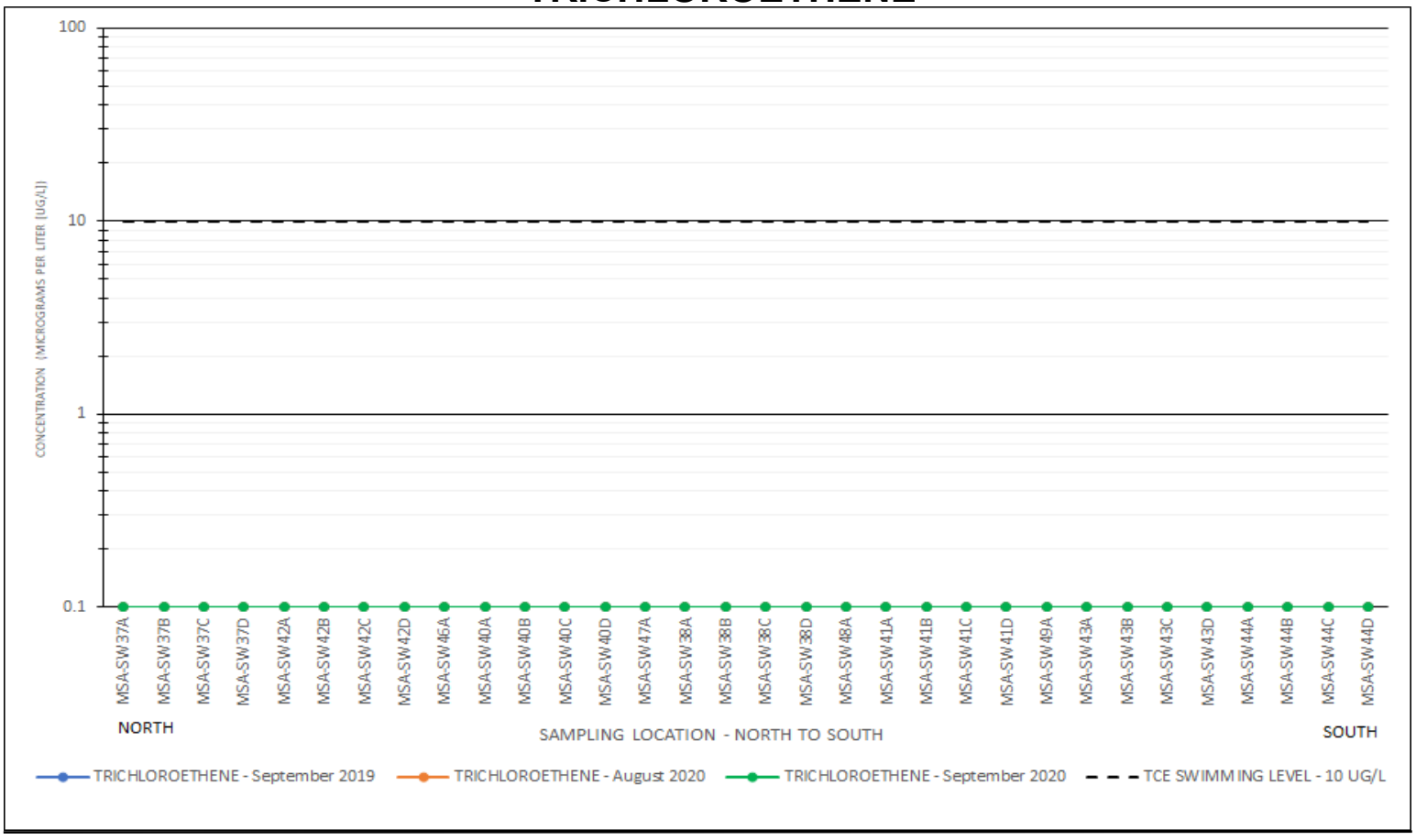
CREATED BY: PFO

TETRA TECH

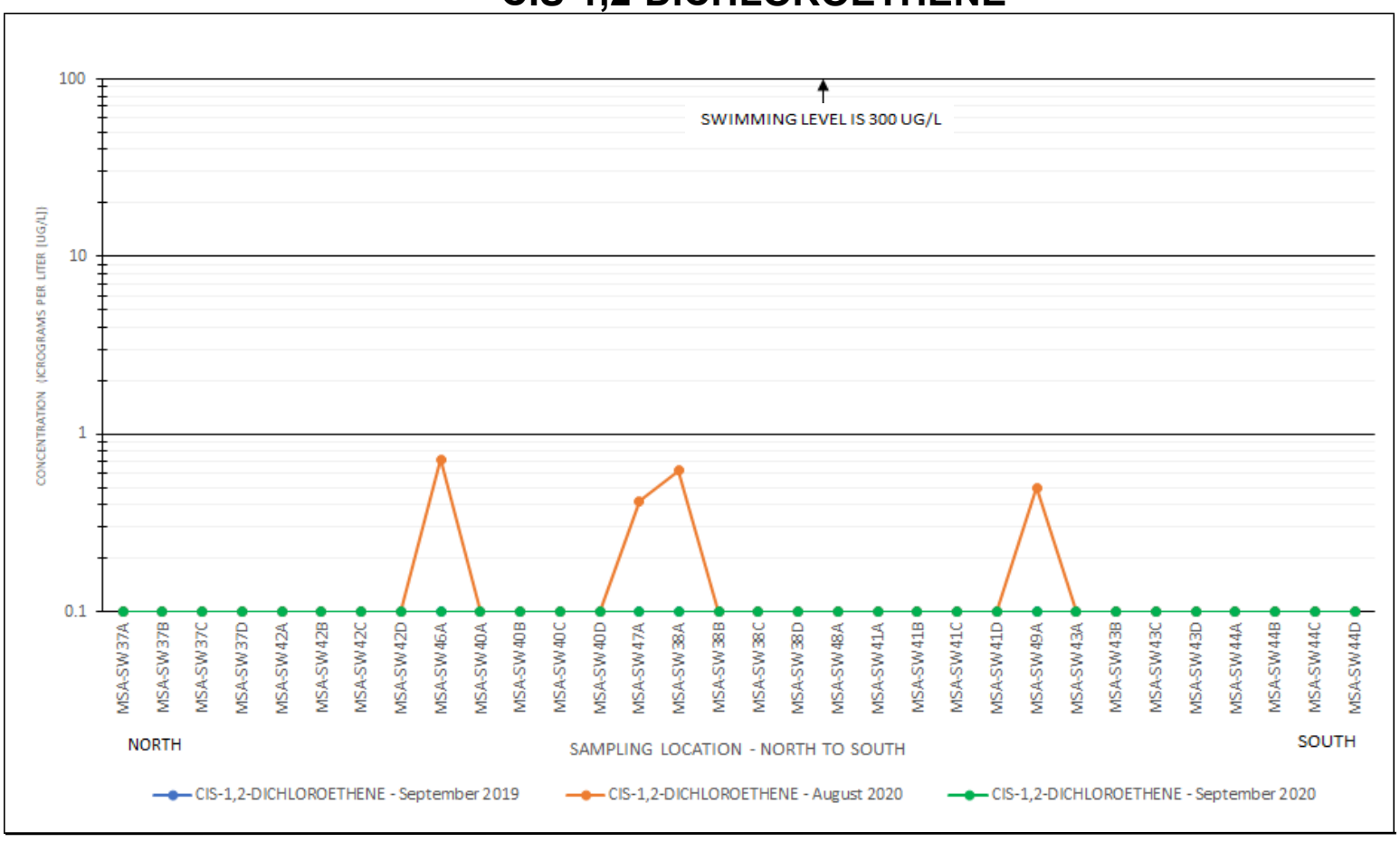
Map Document: GER (K:\Patrick\GIS\Lockheed_MSA\MapDocs\MXDs\fmc_sw_samplocs_aug2020.mxd)
10/29/20 -- PFO

C:\Users\josh.mullis\Desktop\MSA SW 2020 reports\June 2020 report

TRICHLOROETHENE



CIS-1,2-DICHLOROETHENE



VINYL CHLORIDE

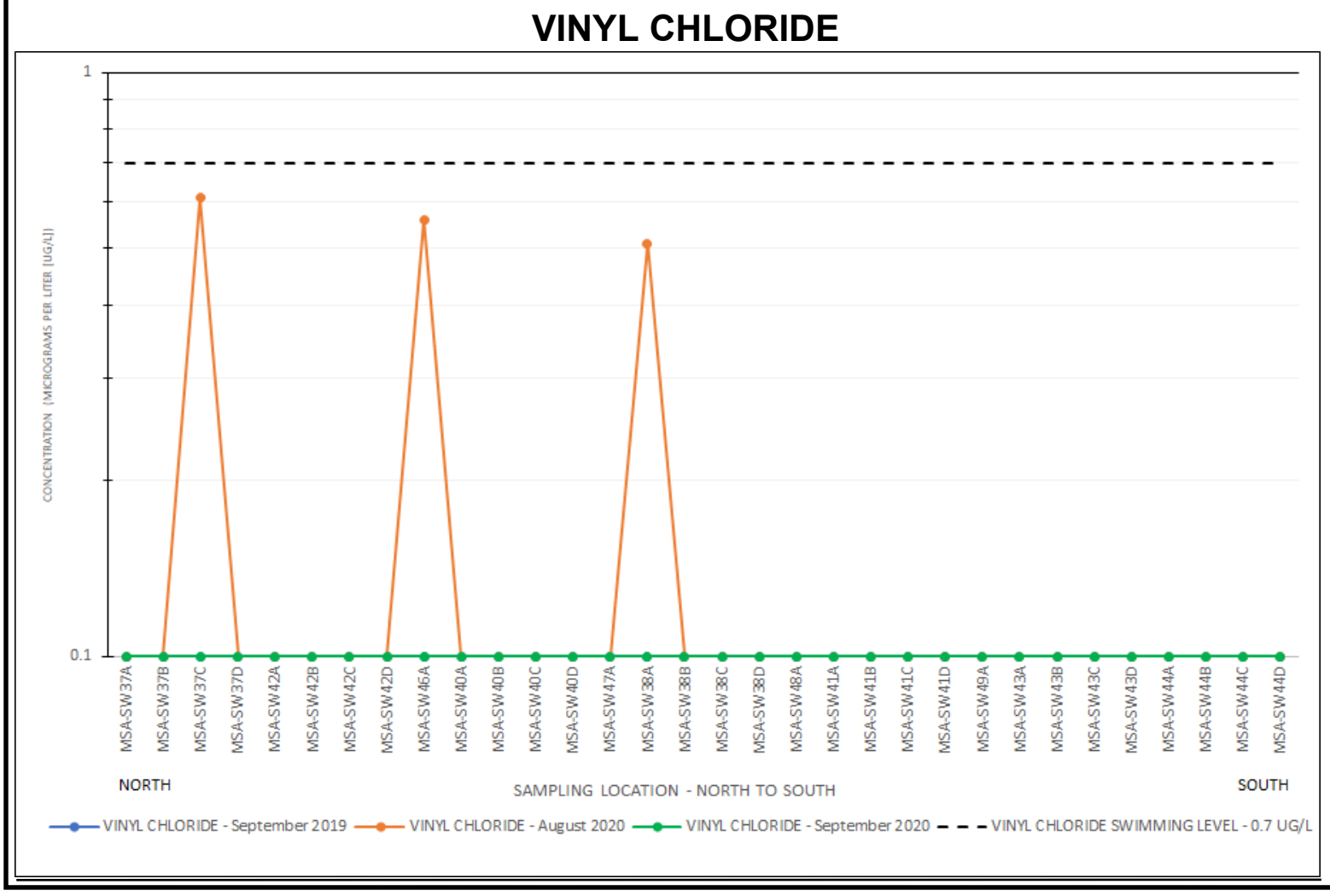


FIGURE 4-1

CONCENTRATIONS OF TRICHLOROETHENE, cis-1,2-DICHLOROETHENE AND VINYL CHLORIDE ALONG SURFACE WATER SAMPLING TRANSECTS FOR SEPTEMBER 2019, AUGUST 2020, AND SEPTEMBER 2020 FROG MORTAR CREEK

Lockheed Martin, Martin State Airport Middle River, Maryland

DATE MODIFIED:	CREATED BY:
12/18/2020	JAM

TETRA TECH

TABLES

Table 3-1 List of Samples and Chemical Analyses for Surface Water—September 2020

Table 4-1 Statistical Summary of Analytes Detected in Surface Water Samples—September 2020

Table 4-2 Detected Analytes and Screening-Level Exceedances in Surface Water Samples—September 2020

Table 4-3 Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the September 2019, August 2020, and September 2020 Sampling Rounds

Table 3-1
List of Samples and Chemical Analyses for Surface Water—September 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

Surface water sampling location/ Transect No.[1]	Analytical Requirements Volatile organic compounds (USEPA SW846 8260C) 3 × 40 mL vials with hydrochloric acid
MSA-SW37	X
MSA-SW38	X
MSA-SW40	X
MSA-SW41	X
MSA-SW42	X
MSA-SW43	X
MSA-SW44	X
MSA-SW46	X
MSA-SW47	X
MSA-SW48	X
MSA-SW49	X
EL-SW01[2]	X[2]

1. Four samples, at locations -A, -B, -C, and -D, were collected from each transect, except for sampling locations SW46, SW47, SW48, and SW49, where only western shore "A" samples were collected. See Section 3.1.3 for sample nomenclature/sample ID.

2. The Edwards Lane (EL) transect was only sampled in June 2020.

mL – milliliter

USEPA – United States Environmental Protection Agency

Table 4-1
Statistical Summary of Analytes Detected in Surface Water Samples—September 2020
Froog Mortar Creek, Middle River, Maryland

Parameter	September 2020 Frog Mortar Creek Surface Water Samples											
	Frequency of Detection		Minimum concentration detected	Maximum concentration detected	Sample of Maximum Concentration Detected	Location of maximum detected concentration	Average of detected results	Average of all results	Minimum concentration nondetects	Maximum concentration nondetects	Standard deviation
	Number	Percent									
Volatile organic compounds (µg/L)											
M+P-XYLENES	1/32	3	0.16 J	0.16 J	MSA-SW40D-092220	MSA-SW40D	0.16	0.04375	0.08	0.08	0.0212132
TOLUENE	1/32	3	0.18 J	0.18 J	MSA-SW40D-092220	MSA-SW40D	0.18	0.073437	0.14	0.14	0.0194454
TOTAL XYLENES	1/32	3	0.16 J	0.16 J	MSA-SW40D-092220	MSA-SW40D	0.16	0.077656	0.15	0.15	0.015026
UNKNOWN	1/32	3	3.5 NJ	3.5 NJ	MSA-SW40A-092220	MSA-SW40A	3.5	0.109375	NULL	NULL	NULL

All samples were collected on September 22, 2020
For non-detects, 1/2 sample quantitation limit was used as a proxy concentration.
J - estimated value
NJ - estimated concentration; tentatively identified compound
µg/L - micrograms per liter

Associated Samples:

sample_id	*sacode*	*qc_type*	*duplicate*
MSA-SW37A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW37B-092220	*NORMAL*	*NM*	*NULL*
MSA-SW37C-092220	*NORMAL*	*NM*	*NULL*
MSA-SW37D-092220	*NORMAL*	*NM*	*NULL*
MSA-SW38A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW38B-092220	*NORMAL*	*NM*	*NULL*
MSA-SW38C-092220	*NORMAL*	*NM*	*NULL*
MSA-SW38D-092220	*NORMAL*	*NM*	*NULL*
MSA-SW40A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW40B-092220	*NORMAL*	*NM*	*NULL*
MSA-SW40C-092220	*NORMAL*	*NM*	*NULL*
MSA-SW40D-092220	*NORMAL*	*NM*	*NULL*
MSA-SW41A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW41B-092220	*NORMAL*	*NM*	*NULL*
MSA-SW41C-092220	*NORMAL*	*NM*	*NULL*
MSA-SW41D-092220	*NORMAL*	*NM*	*NULL*
MSA-SW42A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW42B-092220	*NORMAL*	*NM*	*NULL*
MSA-SW42C-092220	*NORMAL*	*NM*	*NULL*
MSA-SW42D-092220	*NORMAL*	*NM*	*NULL*
MSA-SW43A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW43B-092220	*NORMAL*	*NM*	*NULL*
MSA-SW43C-092220	*NORMAL*	*NM*	*NULL*
MSA-SW43D-092220	*NORMAL*	*NM*	*NULL*
MSA-SW44A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW44B-092220	*NORMAL*	*NM*	*NULL*
MSA-SW44C-092220	*NORMAL*	*NM*	*NULL*
MSA-SW44D-092220	*NORMAL*	*NM*	*NULL*
MSA-SW46A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW47A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW48A-092220	*NORMAL*	*NM*	*NULL*
MSA-SW49A-092220	*NORMAL*	*NM*	*NULL*

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—September 2020
Frog Mortar Creek, Middle River, Maryland

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW37D	MSA-SW38A	MSA-SW38B
SAMPLE ID						MSA-SW37A-092220	MSA-SW37B-092220	MSA-SW37C-092220	MSA-SW37D-092220	MSA-SW38A-092220	MSA-SW38B-092220
SAMPLE DATE	Acute	Chronic				20200922	20200922	20200922	20200922	20200922	20200922
Volatile organic compounds (µg/L)											
M+P-XYLENES	NC	NC	NC	NC	NC	--	--	--	--	--	--
TOLUENE	NC	NC	2	520	NC	--	--	--	--	--	--
TOTAL XYLENES	NC	NC	13	NC	NC	--	--	--	--	--	--
UNKNOWN	NC	NC	NC	NC	NC	--	--	--	--	--	--

All samples were collected on Septemeber 22, 2020.

1 National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03,

2 USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks (USEPA 2006).

3 For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.

4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride approved by the Maryland Department of the Environment in 2019.

Gray shading indicates the value exceeds at least one of the screening criteria.

-- - Not detected at the method detection limit
µg/L - micrograms per liter
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
U - Not detected at the method detection limit
USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—September 2020
Frog Mortar Creek, Middle River, Maryland

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	MSA-SW38C	MSA-SW38D	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW40D
SAMPLE ID						MSA-SW38C-092220	MSA-SW38D-092220	MSA-SW40A-092220	MSA-SW40B-092220	MSA-SW40C-092220	MSA-SW40D-092220
SAMPLE DATE	Acute	Chronic				20200922	20200922	20200922	20200922	20200922	20200922
Volatile organic compounds (µg/L)											
M+P-XYLENES	NC	NC	NC	NC	NC	--	--	--	--	--	0.16 J
TOLUENE	NC	NC	2	520	NC	--	--	--	--	--	0.18 J
TOTAL XYLENES	NC	NC	13	NC	NC	--	--	--	--	--	0.16 J
UNKNOWN	NC	NC	NC	NC	NC	--	--	3.5 NJ	--	--	--

All samples were collected on Septemeber 22, 2020.

1 National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03,

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USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—September 2020
Frog Mortar Creek, Middle River, Maryland

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW41D	MSA-SW42A	MSA-SW42B
SAMPLE ID						MSA-SW41A-092220	MSA-SW41B-092220	MSA-SW41C-092220	MSA-SW41D-092220	MSA-SW42A-092220	MSA-SW42B-092220
SAMPLE DATE	Acute	Chronic				20200922	20200922	20200922	20200922	20200922	20200922
Volatile organic compounds (µg/L)											
M+P-XYLENES	NC	NC	NC	NC	NC	--	--	--	--	--	--
TOLUENE	NC	NC	2	520	NC	--	--	--	--	--	--
TOTAL XYLENES	NC	NC	13	NC	NC	--	--	--	--	--	--
UNKNOWN	NC	NC	NC	NC	NC	--	--	--	--	--	--

All samples were collected on Septemeber 22, 2020.

1 National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03,

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NA - not available
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USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—September 2020
Frog Mortar Creek, Middle River, Maryland

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	MSA-SW42C	MSA-SW42D	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW43D
SAMPLE ID						MSA-SW42C-092220	MSA-SW42D-092220	MSA-SW43A-092220	MSA-SW43B-092220	MSA-SW43C-092220	MSA-SW43D-092220
SAMPLE DATE	Acute	Chronic				20200922	20200922	20200922	20200922	20200922	20200922
Volatile organic compounds (µg/L)											
M+P-XYLENES	NC	NC	NC	NC	NC	--	--	--	--	--	--
TOLUENE	NC	NC	2	520	NC	--	--	--	--	--	--
TOTAL XYLENES	NC	NC	13	NC	NC	--	--	--	--	--	--
UNKNOWN	NC	NC	NC	NC	NC	--	--	--	--	--	--

All samples were collected on Septemeber 22, 2020.

1 National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03,

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-- - Not detected at the method detection limit
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NJ - tentatively identified at estimated concentration
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USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—September 2020
Frog Mortar Creek, Middle River, Maryland

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D	MSA-SW46A	MSA-SW47A
SAMPLE ID						MSA-SW44A-092220	MSA-SW44B-092220	MSA-SW44C-092220	MSA-SW44D-092220	MSA-SW46A-092220	MSA-SW47A-092220
SAMPLE DATE	Acute	Chronic				20200922	20200922	20200922	20200922	20200922	20200922
Volatile organic compounds (µg/L)											
M+P-XYLENES	NC	NC	NC	NC	NC	--	--	--	--	--	--
TOLUENE	NC	NC	2	520	NC	--	--	--	--	--	--
TOTAL XYLENES	NC	NC	13	NC	NC	--	--	--	--	--	--
UNKNOWN	NC	NC	NC	NC	NC	--	--	--	--	--	--

All samples were collected on Septemeber 22, 2020.

1 National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03,

2 USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks (USEPA 2006).

3 For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.

4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride approved by the Maryland Department of the Environment in 2019.

Gray shading indicates the value exceeds at least one of the screening criteria.

-- - Not detected at the method detection limit
µg/L - micrograms per liter
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
U - Not detected at the method detection limit
USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—September 2020
Frog Mortar Creek, Middle River, Maryland

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	MSA-SW48A	MSA-SW49A
SAMPLE ID						MSA-SW48A-092220	MSA-SW49A-092220
SAMPLE DATE	Acute	Chronic				20200922	20200922
Volatile organic compounds (µg/L)							
M+P-XYLENES	NC	NC	NC	NC	NC	--	--
TOLUENE	NC	NC	2	520	NC	--	--
TOTAL XYLENES	NC	NC	13	NC	NC	--	--
UNKNOWN	NC	NC	NC	NC	NC	--	--

All samples were collected on Septemeber 22, 2020.

1 National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03,

2 USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks (USEPA 2006).

3 For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.

4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride approved by the Maryland Department of the Environment in 2019.

Gray shading indicates the value exceeds at least one of the screening criteria.

-- - Not detected at the method detection limit
µg/L - micrograms per liter
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
U - Not detected at the method detection limit
USEPA - United States Environmental Protection Agency

Table 4-3
Comparison of Primary Volatile Organic Compounds Detected in Surface Water in the September 2019, August 2020, and September 2020 Sampling Rounds
Frog Mortar Creek, Middle River, Maryland

	Trichloroethene concentrations (µg/L)			cis-1,2-Dichloroethene concentrations (µg/L)			Vinyl chloride concentrations (µg/L)		
Date	**9/9/2019**	**08/12/20**	**9/22/2020**	**9/9/2019**	**08/12/20**	**9/22/2020**	**9/9/2019**	**08/12/20**	**9/22/2020**
Average-Detections	--	--	--	--	**0.565**	--	--	**0.56**	--
Average-All Samples[(1)]	**0.05**	**0.18**	**0.05**	**0.08**	**0.2369**	**0.08**	**0.1**	**0.2791**	**0.1**
Maximum Concentration	--	--	--	--	**0.72**	--	--	**0.61**	--
No. of Detections/Samples	**0/44**	**0/32**	**0/32**	**0/44**	**4/32**	**0/32**	**0/44**	**3/32**	**0/32**
EL-SW01A	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
EL-SW01B	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
EL-SW01C	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
EL-SW01D	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW37A	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW37B	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW37C	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	**0.61**	0.2 U
MSA-SW37D	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW38A	0.1 U	0.36 U	0.1 U	0.16 U	**0.62 J**	0.16 U	0.2 U	**0.51**	0.2 U
MSA-SW38B	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW38C	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW38D	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW39A	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW39B	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW39C	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW39D	0.1 U	NA	0.1	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW40A	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW40B	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW40C	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW40D	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW41A	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW41B	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW41C	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW41D	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW42A	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW42B	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW42C	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW42D	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW43A	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW43B	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW43C	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW43D	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW44A	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW44B	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW44C	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW44D	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW45A	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW45B	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW45C	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW45D	0.1 U	NA	NA	0.16 U	NA	NA	0.2 U	NA	NA
MSA-SW46A	0.1 U	0.36 U	0.1 U	0.16 U	**0.72 J**	0.16 U	0.2 U	**0.56**	0.2 U
MSA-SW47A	0.1 U	0.36 U	0.1 U	0.16 U	**0.42 J**	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW48A	0.1 U	0.36 U	0.1 U	0.16 U	0.38 U	0.16 U	0.2 U	0.5 U	0.2 U
MSA-SW49A	0.1 U	0.36 U	0.1 U	0.16 U	**0.5 J**	0.16 U	0.2 U	0.5 U	0.2 U

[1] When calculating averages for all samples, 1/2 sample quantitation limit (for non-detects) or 1/2 detection limit (for B-qualified data) are used as proxy concentrations.

Bold font indicates detected concentration.
J - estimated value
µg/L - micrograms per liter
NA - Not Analyzed
U - not detected; the analyte is considered not detected at the reported value

APPENDICES

Appendix A—Field Measurements for Water Quality and Surface-Water-Sample Log Sheets

Appendix B—Data-Validation and Full Laboratory Reports

Appendix C—Chemical-Results Data Table

APPENDIX A—FIELD MEASUREMENTS FOR WATER QUALITY AND SURFACE-WATER-SAMPLE LOG SHEETS

Water Quality Field Parameters-September 2020
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River Maryland

Sample ID		Date	Time	pH	Specific conductance (S.C.)	Temperature (Temp.)	Turbidity	Dissolved oxygen (DO)	Salinity	Oxidation-reduction potential (ORP)	Water Depth
Location	Date ID	mo/day/year	24-hour units	Standard unit (S.U.)	MilliSiemens per centimeter (mS/cm)	Degrees Celsius (^{o}C)	Nephelometric turbidity unit (NTU)	Milligrams per liter (mg/L)	Parts per thousand (ppt)	MilliVolts (mV)	Meters
MSA-SW37A	-92220	9/22/2020	1033	7.50	8.21	19.6	5.46	8.05	4.5	161	0.85
MSA-SW37B	-92220	9/22/2020	1036	7.44	8.22	19.6	5.56	8.14	4.6	163	1.19
MSA-SW37C	-92220	9/22/2020	1039	7.43	8.23	19.6	6.09	8.00	4.6	163	>1.68
MSA-SW37D	-92220	9/22/2020	1042	7.45	8.28	19.7	5.27	8.61	4.6	163	>1.68
MSA-SW38A	-92220	9/22/2020	0938	7.38	8.28	19.14	5.88	8.26	4.6	164	0.61
MSA-SW38B	-92220	9/22/2020	0942	7.38	8.31	19.15	6.34	8.14	4.6	166	1.65
MSA-SW38C	-92220	9/22/2020	0945	7.36	8.44	19.16	7.45	9.27	4.7	165	>1.68
MSA-SW38D	-92220	9/22/2020	0948	7.37	8.35	19.23	7.65	8.14	4.6	166	>1.68
MSA-SW40A	-92220	9/22/2020	0957	7.42	8.36	19.48	6.11	8.43	4.6	164	0.76
MSA-SW40B	-92220	9/22/2020	1001	7.46	8.39	19.51	6.79	8.38	4.7	164	>1.68
MSA-SW40C	-92220	9/22/2020	1006	7.49	8.39	19.53	6.60	8.66	4.7	165	>1.68
MSA-SW40D	-92220	9/22/2020	1009	7.49	8.40	19.54	7.33	8.59	4.7	164	>1.68
MSA-SW41A	-92220	9/22/2020	0914	7.34	8.31	19.01	6.95	9.78	4.6	162	0.61
MSA-SW41B	-92220	9/22/2020	0918	7.32	8.34	19.15	7.28	9.01	4.6	163	1.37
MSA-SW41C	-92220	9/22/2020	0922	7.34	8.41	19.32	6.71	8.43	4.7	164	>1.68
MSA-SW41D	-92220	9/22/2020	0925	7.39	8.44	19.41	5.89	8.58	4.7	163	>1.68
MSA-SW42A	-92220	9/22/2020	1018	7.48	8.40	19.60	6.47	8.21	4.6	162	0.82
MSA-SW42B	-92220	9/22/2020	1021	7.48	8.34	19.56	5.35	8.67	4.6	162	1.62
MSA-SW42C	-92220	9/22/2020	1025	7.52	8.37	19.58	5.69	8.55	4.6	163	>1.68
MSA-SW42D	-92220	9/22/2020	1028	7.52	8.37	19.62	6.13	8.73	4.6	162	>1.68
MSA-SW43A	-92220	9/22/2020	0842	7.31	8.41	19.00	6.36	8.61	4.7	160	0.85
MSA-SW43B	-92220	9/22/2020	0847	7.28	8.38	19.10	6.08	8.44	4.7	162	1.04
MSA-SW43C	-92220	9/22/2020	0852	7.31	8.40	19.20	6.39	8.12	4.7	161	>1.68
MSA-SW43D	-92220	9/22/2020	0859	7.36	8.43	19.28	6.35	8.21	4.7	162	>1.68
MSA-SW44A	-92220	9/22/2020	0814	7.10	8.30	18.83	6.72	9.23	4.6	180	0.58
MSA-SW44B	-92220	9/22/2020	0823	7.13	8.35	19.05	6.68	8.60	4.6	173	1.25
MSA-SW44C	-92220	9/22/2020	0828	7.21	8.44	19.21	8.94	8.83	4.7	173	>1.68
MSA-SW44D	-92220	9/22/2020	0837	7.28	8.45	19.20	6.82	8.77	4.7	169	>1.68
MSA-SW46A	-92220	9/22/2020	1013	7.48	8.27	19.43	6.27	8.18	4.6	164	1.01
MSA-SW47A	-92220	9/22/2020	0953	7.39	8.29	19.28	5.41	8.03	4.6	165	1.10
MSA-SW48A	-92220	9/22/2020	0929	7.41	8.26	19.16	7.61	8.06	4.6	163	0.73
MSA-SW49A	-92220	9/22/2020	0906	7.37	8.36	19.15	5.71	8.26	4.6	161	1.01

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW37A -92220
Sample Location: MSA-SW37A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020								
Time:	1033	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.5	8.21	19.58	5.46	8.05	4.5	161
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.85 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW37B -92220
Sample Location: MSA-SW37B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1036								
Depth:	1 ft below water	clear	7.44	8.22	19.59	5.56	8.14	4.6	163
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.19 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW37C -92220
Sample Location: MSA-SW37C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020								
Time:	1039	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.43	8.23	19.58	6.09	8	4.6	163
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW37D -92220
Sample Location: MSA-SW37D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1042								
Depth:	1 ft below water	clear	7.45	8.28	19.71	5.27	8.61	4.6	163
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW38A -92220
Sample Location: MSA-SW38A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0938								
Depth:	1 ft below water	clear	7.38	8.28	19.14	5.88	8.26	4.6	164
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.61 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW38B -92220
Sample Location: MSA-SW38B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020								
Time:	0942	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.38	8.31	19.15	6.34	8.14	4.6	166
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.7 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW38C -92220
Sample Location: MSA-SW38C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020								
Time:	0945	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.36	8.44	19.16	7.45	9.27	4.7	165
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW38D -92220
Sample Location: MSA-SW38D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020								
Time:	0948	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.37	8.35	19.23	7.65	8.14	4.6	166
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW40A -92220
Sample Location: MSA-SW40A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0957								
Depth:	1 ft below water	clear	7.42	8.36	19.48	6.11	8.43	4.6	164
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.76 meters

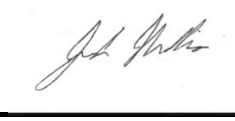
MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW40B -92220
Sample Location: MSA-SW40B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1001								
Depth:	1 ft below water	clear	7.46	8.39	19.51	6.79	8.38	4.7	164
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW40C -92220
Sample Location: MSA-SW40C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1006								
Depth:	1 ft below water	clear	7.49	8.39	19.53	6.60	8.66	4.7	165
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW40D -92220
Sample Location: MSA-SW40D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1009								
Depth:	1 ft below water	clear	7.49	8.40	19.54	7.33	8.59	4.7	164
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW41A -92220
Sample Location: MSA-SW41A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0914								
Depth:	1 ft below water	clear	7.34	8.31	19.01	6.95	9.78	4.6	162
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.61 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW41B -92220
Sample Location: MSA-SW41B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020								
Time:	0918	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.32	8.34	19.15	7.28	9.01	4.6	163
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.37 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW41C -92220
Sample Location: MSA-SW41C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0922								
Depth:	1 ft below water	clear	7.34	8.41	19.32	6.71	8.43	4.7	164
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW41D -92220
Sample Location: MSA-SW41D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0925								
Depth:	1 ft below water	clear	7.39	8.44	19.41	5.89	8.58	4.7	163
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW42A -92220
Sample Location: MSA-SW42A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020								
Time:	1018	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.48	8.40	19.60	6.47	8.21	4.6	162
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.82 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW42B -92220
Sample Location: MSA-SW42B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1021								
Depth:	1 ft below water	clear	7.48	8.34	19.56	5.35	8.67	4.6	162
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.62 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW42C -92220
Sample Location: MSA-SW42C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1025								
Depth:	1 ft below water	clear	7.52	8.37	19.58	5.69	8.55	4.6	163
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW42D -92220
Sample Location: MSA-SW42D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020								
Time:	1028	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.52	8.37	19.62	6.13	8.73	4.6	162
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW43A -92220
Sample Location: MSA-SW43A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0842								
Depth:	1 ft below water	clear	7.31	8.41	19.00	6.36	8.61	4.7	160
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.85 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW43B -92220
Sample Location: MSA-SW43B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0847								
Depth:	1 ft below water	clear	7.28	8.38	19.10	6.08	8.44	4.7	162
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.0 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW43C -92220
Sample Location: MSA-SW43C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0852								
Depth:	1 ft below water	clear	7.31	8.40	19.20	6.39	8.12	4.7	161
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW43D -92220
Sample Location: MSA-SW43D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0859								
Depth:	1 ft below water	clear	7.36	8.43	19.28	6.35	8.21	4.7	162
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW44A -92220
Sample Location: MSA-SW44A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0814								
Depth:	1 ft below water	clear	7.10	8.30	18.83	6.72	9.23	4.6	180
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.58 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW44B -92220
Sample Location: MSA-SW44B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0823								
Depth:	1 ft below water	clear	7.13	8.35	19.05	6.68	8.60	4.6	173
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.25 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW44C -92220
Sample Location: MSA-SW44C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0828								
Depth:	1 ft below water	clear	7.21	8.44	19.21	8.94	8.83	4.7	173
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW44D -92220
Sample Location: MSA-SW44D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	9/22/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0837								
Depth:	1 ft below water	clear	7.28	8.45	19.20	6.82	8.77	4.7	169
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth >1.68 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW46A -92220
Sample Location: MSA-SW46A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	#REF!	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1013								
Depth:	1 ft below water	clear	7.48	8.27	19.43	6.27	8.18	4.6	164
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.01 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW47A -92220
Sample Location: MSA-SW47A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	#REF!								
Time:	0953	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.39	8.29	19.28	5.41	8.03	4.6	165
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.1 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW48A -92220
Sample Location: MSA-SW48A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	#REF!								
Time:	0929	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	7.41	8.26	19.16	7.61	8.06	4.6	163
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.73 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW49A -92220
Sample Location: MSA-SW49A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	#REF!	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0906								
Depth:	1 ft below water	clear	7.37	8.36	19.15	5.71	8.26	4.6	161
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.01 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

APPENDIX B—DATA-VALIDATION AND FULL LABORATORY REPORTS

TETRA TECH **INTERNAL CORRESPONDENCE**

TO: **S. BRENNER** **DATE:** **DECEMBER 16, 2020**

FROM: **J.SAMCHUCK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)
FROG MORTAR CREEK SURFACE WATER SAMPLING
SDG 240-136984-1

SAMPLES: 33/Aqueous/VOC

MSA-SW37A-092220	MSA-SW37B-092220	MSA-SW37C-092220
MSA-SW37D-092220	MSA-SW38A-092220	MSA-SW38B-092220
MSA-SW38C-092220	MSA-SW38D-092220	MSA-SW40A-092220
MSA-SW40B-092220	MSA-SW40C-092220	MSA-SW40D-092220
MSA-SW41A-092220	MSA-SW41B-092220	MSA-SW41C-092220
MSA-SW41D-092220	MSA-SW42A-092220	MSA-SW42B-092220
MSA-SW42C-092220	MSA-SW42D-092220	MSA-SW43A-092220
MSA-SW43B-092220	MSA-SW43C-092220	MSA-SW43D-092220
MSA-SW44A-092220	MSA-SW44B-092220	MSA-SW44C-092220
MSA-SW44D-092220	MSA-SW46A-092220	MSA-SW47A-092220
MSA-SW48A-092220	MSA-SW49A-092220	TB-092220

Overview

The sample set for LMC-MSA Frog Mortar Creek, SDG 240-136984-1consisted of thirty-two (32) aqueous environmental samples and one (1) trip blank. All thirty-three (33) aqueous samples were analyzed for Volatile Organic Compounds (VOC). No field duplicate sample pair was included in this SDG.

The samples were collected by Tetra Tech, Inc. on September 22, 2020 and analyzed by Eurofins TestAmerica, Inc. All analyses were conducted in accordance with SW-846 Method 8260C analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, initial/continuing calibrations, laboratory preparation/method blanks, surrogate spike recoveries, laboratory control sample results, matrix spike/matrix spike duplicate results, internal standard results, chromatographic resolution, compound identification, tentatively identified compounds, compound/analyte quantitation, and detection limits. Areas of concern are listed below.

Major

- As stated in the laboratory case narrative, 2-chloroethyl vinyl ether cannot be reliably recovered in an acid preserved samples. All samples in this SDG were acid preserved. The non-detected results reported for 2-chloroethyl vinyl ether were qualified as rejected, (UR) in the acid preserved samples.

Minor

- The initial calibration verification standard analyzed on instrument A3UX12 on 7/16/20 @ 2023 had a Percent Difference for t-butyl alcohol which exceeded the 30% quality control limit. The non-detected results reported for this compound in the affected samples were qualified as estimated, (UJ).

- The VOC continuing calibration performed on instrument A3UX12 on 09/29/2020 @ 1751 had

Percent Difference (%D) for t-butyl alcohol which exceeded the 20% quality control limit. Samples associated with analytical batch # 240-453571/4 were affected. The non-detected results reported for this compound in the affected samples were qualified as estimated, (UJ).

- The VOC continuing calibration performed on instrument A3UX16 on 09/29/2020 @ 1012 had %Ds for bromomethane, which exceeded the 20% quality control limit. Samples associated with analytical batch # 240-453487 were affected. The non-detected results reported for this compound in the affected samples were qualified as estimated, (UJ).

- A Tentatively Identified Compound (TIC) search was performed for the compound chlorodifluoromethane. The laboratory did not detect this compound in the samples in this SDG. The laboratory assigned a Reporting Limit (RL) of 1 µg/L. Because the GC/MS was not calibrated for this compound, the RL is not based on a representative detection limit. The non-detected results reported for chlorodifluoromethane were qualified as estimated, (UJ).

- Detected results reported below the RL but above the Method Detection Limit (MDL) were qualified as estimated, (J).

Notes

Non-detected results were reported to the MDL.

A matrix spike and matrix spike duplicate analysis was not performed by the laboratory.

Executive Summary

Laboratory Performance: Two VOC continuing calibrations contained %Ds for two compounds tha exceeded 20%. Non-detected chlorodifluoromethane results were estimated because the compound was evaluated via TIC library search.

Other Factors Affecting Data Quality: 2-Chloroethyl vinyl ether results were rejected because the samples were acid preserved.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Review" (January 2017) and "National Functional Guidelines for Inorganic Review" (January 2017). The text of this report has been formulated to address only those areas affecting data quality.

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

Appendix A

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 09023	NSAMPLE	MSA-SW37A-092220			MSA-SW37B-092220			MSA-SW37C-092220			MSA-SW37D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-1			240-136984-2			240-136984-3			240-136984-4		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW38A-092220			MSA-SW38B-092220			MSA-SW38C-092220			MSA-SW38D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-5			240-136984-6			240-136984-7			240-136984-8		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW40A-092220			MSA-SW40B-092220			MSA-SW40C-092220			MSA-SW40D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-9			240-136984-10			240-136984-11			240-136984-12		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW41A-092220			MSA-SW41B-092220			MSA-SW41C-092220			MSA-SW41D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-13			240-136984-14			240-136984-15			240-136984-16		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW42A-092220			MSA-SW42B-092220			MSA-SW42C-092220			MSA-SW42D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-17			240-136984-18			240-136984-19			240-136984-20		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW43A-092220			MSA-SW43B-092220			MSA-SW43C-092220			MSA-SW43D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-21			240-136984-22			240-136984-23			240-136984-24		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW44A-092220			MSA-SW44B-092220			MSA-SW44C-092220			MSA-SW44D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-25			240-136984-26			240-136984-27			240-136984-28		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW46A-092220			MSA-SW47A-092220			MSA-SW48A-092220			MSA-SW49A-092220		
SDG: 240-136984-1	LAB_ID	240-136984-30			240-136984-31			240-136984-32			240-136984-33		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	TB-092220		
SDG: 240-136984-1	LAB_ID	240-136984-29		
FRACTION: OV	SAMP_DATE	9/22/2020		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U	
1,1-DICHLOROETHANE		0.17	U	
1,1-DICHLOROETHENE		0.19	U	
1,1-DICHLOROPROPENE		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U	
1,2-DIBROMOETHANE		0.12	U	
1,2-DICHLOROBENZENE		0.15	U	
1,2-DICHLOROETHANE		0.21	U	
1,2-DICHLOROPROPANE		0.15	U	
1,3-DICHLOROBENZENE		0.15	U	
1,3-DICHLOROPROPANE		0.21	U	
1,4-DICHLOROBENZENE		0.16	U	
2,2-DICHLOROPROPANE		0.31	U	
2-BUTANONE		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M
2-CHLOROTOLUENE		0.15	U	
2-HEXANONE		0.54	U	
4-CHLOROTOLUENE		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U	
4-METHYL-2-PENTANONE		0.42	U	
ACETONE		5.4	U	
BENZENE		0.13	U	
BROMOBENZENE		0.12	U	
BROMOCHLOROMETHANE		0.14	U	
BROMODICHLOROMETHANE		0.17	U	
BROMOFORM		0.76	U	
BROMOMETHANE		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW37A-092220			MSA-SW37B-092220			MSA-SW37C-092220			MSA-SW37D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-1			240-136984-2			240-136984-3			240-136984-4		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW38A-092220			MSA-SW38B-092220			MSA-SW38C-092220			MSA-SW38D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-5			240-136984-6			240-136984-7			240-136984-8		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW40A-092220			MSA-SW40B-092220			MSA-SW40C-092220			MSA-SW40D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-9			240-136984-10			240-136984-11			240-136984-12		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.16	J	P
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.18	J	P
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.16	J	P
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW41A-092220			MSA-SW41B-092220			MSA-SW41C-092220			MSA-SW41D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-13			240-136984-14			240-136984-15			240-136984-16		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW42A-092220			MSA-SW42B-092220			MSA-SW42C-092220			MSA-SW42D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-17			240-136984-18			240-136984-19			240-136984-20		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW43A-092220			MSA-SW43B-092220			MSA-SW43C-092220			MSA-SW43D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-21			240-136984-22			240-136984-23			240-136984-24		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW44A-092220			MSA-SW44B-092220			MSA-SW44C-092220			MSA-SW44D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-25			240-136984-26			240-136984-27			240-136984-28		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW46A-092220			MSA-SW47A-092220			MSA-SW48A-092220			MSA-SW49A-092220		
SDG: 240-136984-1	LAB_ID	240-136984-30			240-136984-31			240-136984-32			240-136984-33		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09023	NSAMPLE	TB-092220		
SDG: 240-136984-1	LAB_ID	240-136984-29		
FRACTION: OV	SAMP_DATE	9/22/2020		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U	
CARBON TETRACHLORIDE		0.26	U	
CHLOROBENZENE		0.14	U	
CHLORODIBROMOMETHANE		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q
CHLOROETHANE		0.83	U	
CHLOROFORM		0.13	U	
CHLOROMETHANE		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U	
DIBROMOMETHANE		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U	
DIISOPROPYL ETHER		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U	
ETHYLBENZENE		0.11	U	
HEXACHLOROBUTADIENE		0.83	U	
ISOPROPYLBENZENE		0.09	U	
M+P-XYLENES		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U	
METHYLENE CHLORIDE		2.6	U	
NAPHTHALENE		0.32	U	
N-BUTYLBENZENE		0.14	U	
N-PROPYLBENZENE		0.15	U	
O-XYLENE		0.09	U	
SEC-BUTYLBENZENE		0.13	U	
STYRENE		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U	
TERT-BUTYLBENZENE		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C
TETRACHLOROETHENE		0.15	U	
TOLUENE		0.14	U	
TOTAL XYLENES		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U	
TRICHLOROETHENE		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW37A-092220			MSA-SW37B-092220			MSA-SW37C-092220			MSA-SW37D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-1			240-136984-2			240-136984-3			240-136984-4		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
UNKNOWN													
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW38A-092220			MSA-SW38B-092220			MSA-SW38C-092220			MSA-SW38D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-5			240-136984-6			240-136984-7			240-136984-8		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
UNKNOWN													
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW40A-092220			MSA-SW40B-092220			MSA-SW40C-092220			MSA-SW40D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-9			240-136984-10			240-136984-11			240-136984-12		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
UNKNOWN		3.5	NJ	Z1									
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW41A-092220			MSA-SW41B-092220			MSA-SW41C-092220			MSA-SW41D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-13			240-136984-14			240-136984-15			240-136984-16		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
UNKNOWN													
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW42A-092220			MSA-SW42B-092220			MSA-SW42C-092220			MSA-SW42D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-17			240-136984-18			240-136984-19			240-136984-20		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
UNKNOWN													
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW43A-092220			MSA-SW43B-092220			MSA-SW43C-092220			MSA-SW43D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-21			240-136984-22			240-136984-23			240-136984-24		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
UNKNOWN													
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW44A-092220			MSA-SW44B-092220			MSA-SW44C-092220			MSA-SW44D-092220		
SDG: 240-136984-1	LAB_ID	240-136984-25			240-136984-26			240-136984-27			240-136984-28		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
UNKNOWN													
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW46A-092220			MSA-SW47A-092220			MSA-SW48A-092220			MSA-SW49A-092220		
SDG: 240-136984-1	LAB_ID	240-136984-30			240-136984-31			240-136984-32			240-136984-33		
FRACTION: OV	SAMP_DATE	9/22/2020			9/22/2020			9/22/2020			9/22/2020		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
UNKNOWN													
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	TB-092220		
SDG: 240-136984-1	LAB_ID	240-136984-29		
FRACTION: OV	SAMP_DATE	9/22/2020		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U	
UNKNOWN				
VINYL ACETATE		0.19	U	
VINYL CHLORIDE		0.2	U	

Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	92		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	96		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	91		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		47-134
1868-53-7	Dibromofluoromethane (Surr)	81		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		75-130
2037-26-5	Toluene-d8 (Surr)	96		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
1868-53-7	Dibromofluoromethane (Surr)	85		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	100		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	86		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	105		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 1 TIC Result Total: 3.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	9.37	3.5	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	85		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.16	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.18	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.16	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	87		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	100		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	92		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	87		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		47-134
1868-53-7	Dibromofluoromethane (Surr)	92		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	102		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	86		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	83		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		75-130
2037-26-5	Toluene-d8 (Surr)	96		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		47-134
1868-53-7	Dibromofluoromethane (Surr)	81		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	102		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	100		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	102		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Appendix C

Support Documentation

ANALYTICAL REPORT

Job Number: 240-136984-1

SDG Number: MSA FMC

Job Description: MSA Surface Water

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Josh Mullis

Roxanne Cisneros

Approved for release.
Roxanne Cisneros
Senior Project Manager
10/8/2020 11:46 AM

Roxanne Cisneros, Senior Project Manager
4101 Shuffel Street NW, North Canton, OH, 44720
(615)301-5761
roxanne.cisneros@Eurofinset.com
10/08/2020

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

4.3157

Baltimore
#201

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

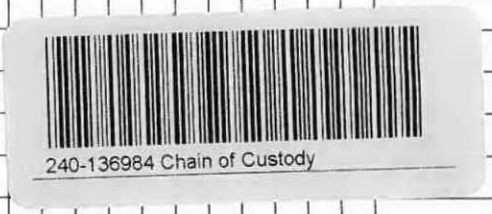
Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 9/22/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	1 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler: J Mullis
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09023	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW37A-092220	9/22/2020	1033	SW	Water	3		x	
MSA-SW37B-092220	9/22/2020	1036	SW	Water	3		x	
MSA-SW37C-092220	9/22/2020	1039	SW	Water	3		x	
MSA-SW37D-092220	9/22/2020	1042	SW	Water	3		x	
MSA-SW38A-092220	9/22/2020	0938	SW	Water	3		x	
MSA-SW38B-092220	9/22/2020	0942	SW	Water	3		x	
MSA-SW38C-092220	9/22/2020	0945	SW	Water	3		x	
MSA-SW38D-092220	9/22/2020	0948	SW	Water	3		x	
MSA-SW40A-092220	9/22/2020	0957	SW	Water	3		x	
MSA-SW40B-092220	9/22/2020	1001	SW	Water	3		x	
MSA-SW40C-092220	9/22/2020	1006	SW	Water	3		x	
MSA-SW40D-092220	9/22/2020	1009	SW	Water	3		x	
							2	



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Irritant Poison B ☒ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tt	09-22-20/1335		Eta Lat	9/22/20 15:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tt/Eta Lat	Eta Lat		ETA	9-23-20 950
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

10/08/2020

Baltimore
#201

4.3/15.2

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: ~~9/12/2020~~ 9/22/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	2 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler: J Mullis
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09023	☐ 1 day			Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)
MSA-SW41A-092220	9/22/2020	0914	SW	Water	3		x
MSA-SW41B-092220	9/22/2020	0918	SW	Water	3		x
MSA-SW41C-092220	9/22/2020	0922	SW	Water	3		x
MSA-SW41D-092220	9/22/2020	0925	SW	Water	3		x
MSA-SW42A-092220	9/22/2020	1018	SW	Water	3		x
MSA-SW42B-092220	9/22/2020	1021	SW	Water	3		x
MSA-SW42C-092220	9/22/2020	1025	SW	Water	3		x
MSA-SW42D-092220	9/22/2020	1028	SW	Water	3		x
MSA-SW43A-092220	9/22/2020	0842	SW	Water	3		x
MSA-SW43B-092220	9/22/2020	0847	SW	Water	3		x
MSA-SW43C-092220	9/22/2020	0852	SW	Water	3		x
MSA-SW43D-092220	9/22/2020	0859	SW	Water	3		x
							2

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Irritant Poison B ☒ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	T+	9/22/20-1335		ETA Lab	9/22/20 13:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	9/22/20 17:00	ETA Lab		ETA	9-23-20 950
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

10/08/2020

ETA

4.3/52

Baltimore #201

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: ~~8/12/2020~~ 9/22/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	3 of 3 COCs
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09023	☐ 1 day			Sampler: J Mullis

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW44A-092220	9/22/2020	0814	SW	Water	3		x	
MSA-SW44B-092220	9/22/2020	0823	SW	Water	3		x	
MSA-SW44C-092220	9/22/2020	0828	SW	Water	3		x	
MSA-SW44D-092220	9/22/2020	0837	SW	Water	3		x	
TB-092220	9/22/2020	0000	SW	Water	3		x	courier is providing trip blank.
MSA-SW46A-092220	9/22/2020	1013	SW	Water	3		x	
MSA-SW47A-092220	9/22/2020	0953	SW	Water	3		x	
MSA-SW48A-092220	9/22/2020	0929	SW	Water	3		x	
MSA-SW49A-092220	9/22/2020	0906	SW	Water	3		x	
							2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Irritant Poison B ☒ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	T+	9/22/20-1335		ETA Salt	9/22/20 15:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	T+ 17.11	ETA Salt		ETA	9-23-20 950
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

10/08/2020

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # : 136984**
Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by: MatSnyder

Cooler Received on 9-23-20 Opened on 9-23-20

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # VA Foam Box Client Cooler Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN #IR-11 (CF +0.9°C) Observed Cooler Temp 4.3 °C Corrected Cooler Temp. 5.2 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)
-Were tamper/custody seals intact and uncompromised?	(Yes) No NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes) No
4. Did custody papers accompany the sample(s)?	(Yes) No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)
7. Did all bottles arrive in good condition (Unbroken)?	(Yes) No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?	
10. Were correct bottle(s) used for the test(s) indicated?	(Yes) No
11. Sufficient quantity received to perform indicated analyses?	(Yes) No
12. Are these work share samples and all listed on the COC?	Yes (No)
If yes, Questions 13-17 have been checked at the originating laboratory.	
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes No (NA) pH Strip Lot# **HC907861**
14. Were VOAs on the COC?	(Yes) No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes (No) NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	(Yes) No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes (No)

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MSA Surface Water

Report Number: 240-136984-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 9/23/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MSA-SW37A-092220 (240-136984-1), MSA-SW37B-092220 (240-136984-2), MSA-SW37C-092220 (240-136984-3), MSA-SW37D-092220 (240-136984-4), MSA-SW38A-092220 (240-136984-5), MSA-SW38B-092220 (240-136984-6), MSA-SW38C-092220 (240-136984-7), MSA-SW38D-092220 (240-136984-8), MSA-SW40A-092220 (240-136984-9), MSA-SW40B-092220 (240-136984-10), MSA-SW40C-092220 (240-136984-11), MSA-SW40D-092220 (240-136984-12), MSA-SW41A-092220 (240-136984-13), MSA-SW41B-092220 (240-136984-14), MSA-SW41C-092220 (240-136984-15), MSA-SW41D-092220 (240-136984-16), MSA-SW42A-092220 (240-136984-17), MSA-SW42B-092220 (240-136984-18), MSA-SW42C-092220 (240-136984-19), MSA-SW42D-092220 (240-136984-20), MSA-SW43A-092220 (240-136984-21), MSA-SW43B-092220 (240-136984-22), MSA-SW43C-092220 (240-136984-23), MSA-SW43D-092220 (240-136984-24), MSA-SW44A-092220 (240-136984-25), MSA-SW44B-092220 (240-136984-26), MSA-SW44C-092220 (240-136984-27), MSA-SW44D-092220 (240-136984-28), TB-092220 (240-136984-29), MSA-SW46A-092220 (240-136984-30), MSA-SW47A-092220 (240-136984-31), MSA-SW48A-092220 (240-136984-32) and MSA-SW49A-092220 (240-136984-33) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 09/29/2020, 09/30/2020 and 10/01/2020.

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37A-092220 (240-136984-1), MSA-SW37B-092220 (240-136984-2) and MSA-SW37C-092220 (240-136984-3). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-453487 was outside the method criteria for the following analyte(s): Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. MSA-SW37A-092220 (240-136984-1), MSA-SW37B-092220 (240-136984-2), MSA-SW37C-092220 (240-136984-3) and (CCVIS 240-453487/5)

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-453571 was outside the method criteria for 2-methyl-2-propanol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be

acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37D-092220 (240-136984-4), MSA-SW38A-092220 (240-136984-5), MSA-SW38B-092220 (240-136984-6), MSA-SW38C-092220 (240-136984-7), MSA-SW38D-092220 (240-136984-8), MSA-SW40A-092220 (240-136984-9), MSA-SW40B-092220 (240-136984-10), MSA-SW40C-092220 (240-136984-11), MSA-SW40D-092220 (240-136984-12), MSA-SW41A-092220 (240-136984-13), MSA-SW41B-092220 (240-136984-14), MSA-SW41C-092220 (240-136984-15), MSA-SW41D-092220 (240-136984-16), MSA-SW42A-092220 (240-136984-17), MSA-SW42B-092220 (240-136984-18), MSA-SW42C-092220 (240-136984-19), MSA-SW42D-092220 (240-136984-20), MSA-SW43A-092220 (240-136984-21), MSA-SW43B-092220 (240-136984-22), MSA-SW43C-092220 (240-136984-23), MSA-SW43D-092220 (240-136984-24), MSA-SW44A-092220 (240-136984-25), MSA-SW44B-092220 (240-136984-26), MSA-SW44C-092220 (240-136984-27), MSA-SW44D-092220 (240-136984-28), TB-092220 (240-136984-29), MSA-SW46A-092220 (240-136984-30), MSA-SW47A-092220 (240-136984-31), MSA-SW48A-092220 (240-136984-32) and MSA-SW49A-092220 (240-136984-33). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-453571.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-453771.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-136984-1	MSA-SW37A-092220	Water	09/22/20 10:33	09/23/20 09:50	
240-136984-2	MSA-SW37B-092220	Water	09/22/20 10:36	09/23/20 09:50	
240-136984-3	MSA-SW37C-092220	Water	09/22/20 10:39	09/23/20 09:50	
240-136984-4	MSA-SW37D-092220	Water	09/22/20 10:42	09/23/20 09:50	
240-136984-5	MSA-SW38A-092220	Water	09/22/20 09:38	09/23/20 09:50	
240-136984-6	MSA-SW38B-092220	Water	09/22/20 09:42	09/23/20 09:50	
240-136984-7	MSA-SW38C-092220	Water	09/22/20 09:45	09/23/20 09:50	
240-136984-8	MSA-SW38D-092220	Water	09/22/20 09:48	09/23/20 09:50	
240-136984-9	MSA-SW40A-092220	Water	09/22/20 09:57	09/23/20 09:50	
240-136984-10	MSA-SW40B-092220	Water	09/22/20 10:01	09/23/20 09:50	
240-136984-11	MSA-SW40C-092220	Water	09/22/20 10:06	09/23/20 09:50	
240-136984-12	MSA-SW40D-092220	Water	09/22/20 10:09	09/23/20 09:50	
240-136984-13	MSA-SW41A-092220	Water	09/22/20 09:14	09/23/20 09:50	
240-136984-14	MSA-SW41B-092220	Water	09/22/20 09:18	09/23/20 09:50	
240-136984-15	MSA-SW41C-092220	Water	09/22/20 09:22	09/23/20 09:50	
240-136984-16	MSA-SW41D-092220	Water	09/22/20 09:25	09/23/20 09:50	
240-136984-17	MSA-SW42A-092220	Water	09/22/20 10:18	09/23/20 09:50	
240-136984-18	MSA-SW42B-092220	Water	09/22/20 10:21	09/23/20 09:50	
240-136984-19	MSA-SW42C-092220	Water	09/22/20 10:25	09/23/20 09:50	
240-136984-20	MSA-SW42D-092220	Water	09/22/20 10:28	09/23/20 09:50	
240-136984-21	MSA-SW43A-092220	Water	09/22/20 08:42	09/23/20 09:50	
240-136984-22	MSA-SW43B-092220	Water	09/22/20 08:47	09/23/20 09:50	
240-136984-23	MSA-SW43C-092220	Water	09/22/20 08:52	09/23/20 09:50	
240-136984-24	MSA-SW43D-092220	Water	09/22/20 08:59	09/23/20 09:50	
240-136984-25	MSA-SW44A-092220	Water	09/22/20 08:14	09/23/20 09:50	
240-136984-26	MSA-SW44B-092220	Water	09/22/20 08:23	09/23/20 09:50	
240-136984-27	MSA-SW44C-092220	Water	09/22/20 08:28	09/23/20 09:50	
240-136984-28	MSA-SW44D-092220	Water	09/22/20 08:37	09/23/20 09:50	
240-136984-29	TB-092220	Water	09/22/20 00:00	09/23/20 09:50	
240-136984-30	MSA-SW46A-092220	Water	09/22/20 10:13	09/23/20 09:50	
240-136984-31	MSA-SW47A-092220	Water	09/22/20 09:53	09/23/20 09:50	
240-136984-32	MSA-SW48A-092220	Water	09/22/20 09:29	09/23/20 09:50	
240-136984-33	MSA-SW49A-092220	Water	09/22/20 09:06	09/23/20 09:50	

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW37A-092220	240-136984-1	103	102	94	103
MSA-SW37B-092220	240-136984-2	100	101	92	101
MSA-SW37C-092220	240-136984-3	96	99	91	99
MSA-SW37D-092220	240-136984-4	89	93	103	106
MSA-SW38A-092220	240-136984-5	81	86	96	97
MSA-SW38B-092220	240-136984-6	85	91	101	105
MSA-SW38C-092220	240-136984-7	88	95	100	108
MSA-SW38D-092220	240-136984-8	86	91	99	102
MSA-SW40A-092220	240-136984-9	88	94	105	111
MSA-SW40B-092220	240-136984-10	90	96	103	108
MSA-SW40C-092220	240-136984-11	85	90	97	99
MSA-SW40D-092220	240-136984-12	90	97	104	111
MSA-SW41A-092220	240-136984-13	87	93	100	103
MSA-SW41B-092220	240-136984-14	92	96	103	108
MSA-SW41C-092220	240-136984-15	87	91	97	99
MSA-SW41D-092220	240-136984-16	88	92	101	104
MSA-SW42A-092220	240-136984-17	88	94	103	110
MSA-SW42B-092220	240-136984-18	91	96	104	109
MSA-SW42C-092220	240-136984-19	92	98	104	109
MSA-SW42D-092220	240-136984-20	91	95	101	105
MSA-SW43A-092220	240-136984-21	90	94	102	107
MSA-SW43B-092220	240-136984-22	89	95	101	104
MSA-SW43C-092220	240-136984-23	86	91	101	106
MSA-SW43D-092220	240-136984-24	83	87	96	99
MSA-SW44A-092220	240-136984-25	81	85	94	98
MSA-SW44B-092220	240-136984-26	88	93	103	106
MSA-SW44C-092220	240-136984-27	90	95	102	107
MSA-SW44D-092220	240-136984-28	91	95	100	104
TB-092220	240-136984-29	90	94	103	107
MSA-SW46A-092220	240-136984-30	89	93	102	107
MSA-SW47A-092220	240-136984-31	90	95	103	109
MSA-SW48A-092220	240-136984-32	89	93	99	104
MSA-SW49A-092220	240-136984-33	89	92	101	105
	MB 240-453487/9	98	104	94	100
	MB 240-453571/8	89	95	103	107

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MB 240-453771/8	90	93	101	107
	LCS 240-453487/6	91	96	97	102
	LCS 240-453571/5	90	92	102	107
	LCS 240-453771/5	90	92	102	107

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: UXM31389.D

Lab ID: LCS 240-453487/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	40.6	101	33-155	
Benzene	20.0	19.3	96	77-123	
Bromobenzene	20.0	18.3	91	77-120	
Bromochloromethane	20.0	17.7	88	70-128	
Bromodichloromethane	20.0	19.0	95	73-122	
Bromoform	20.0	17.9	89	47-133	
Bromomethane	20.0	12.9	64	48-144	
2-Butanone	40.0	41.2	103	41-151	
Carbon disulfide	20.0	18.1	90	67-127	
Carbon tetrachloride	20.0	18.0	90	61-142	
Chlorobenzene	20.0	18.5	93	80-120	
Chloroethane	20.0	19.6	98	41-147	
2-Chloroethyl vinyl ether	20.0	19.8	99	29-146	
Chloroform	20.0	18.6	93	74-127	
Chloromethane	20.0	18.8	94	46-148	
2-Chlorotoluene	20.0	18.2	91	73-126	
4-Chlorotoluene	20.0	18.7	93	73-126	
cis-1,2-Dichloroethene	20.0	18.8	94	75-124	
cis-1,3-Dichloropropene	20.0	19.9	99	68-128	
Dibromochloromethane	20.0	18.3	91	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.5	92	34-136	
1,2-Dibromoethane	20.0	19.3	96	73-120	
Dibromomethane	20.0	18.6	93	67-121	
1,2-Dichlorobenzene	20.0	17.7	89	74-120	
1,3-Dichlorobenzene	20.0	17.8	89	74-120	
1,4-Dichlorobenzene	20.0	18.1	90	75-120	
Dichlorodifluoromethane	20.0	20.0	100	35-137	
1,1-Dichloroethane	20.0	19.4	97	74-126	
1,2-Dichloroethane	20.0	19.7	99	66-129	
1,1-Dichloroethene	20.0	18.5	93	73-129	
1,2-Dichloropropane	20.0	20.2	101	79-127	
1,3-Dichloropropane	20.0	20.2	101	74-122	
2,2-Dichloropropane	20.0	19.5	98	67-137	
1,1-Dichloropropene	20.0	19.2	96	78-120	
Ethylbenzene	20.0	18.7	93	80-120	
Hexachlorobutadiene	20.0	20.8	104	40-120	
2-Hexanone	40.0	45.3	113	43-142	
Isopropylbenzene	20.0	19.4	97	73-123	
Methylene Chloride	20.0	18.0	90	63-134	
4-Methyl-2-pentanone	40.0	44.8	112	43-145	
Methyl tert-butyl ether	20.0	20.6	103	57-127	
m-Xylene & p-Xylene	20.0	18.9	94	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: UXM31389.D

Lab ID: LCS 240-453487/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	18.4	92	28-130	
n-Butylbenzene	20.0	18.9	94	54-129	
n-Propylbenzene	20.0	18.5	92	67-130	
o-Xylene	20.0	18.8	94	75-123	
p-Isopropyltoluene	20.0	18.9	94	66-127	
sec-Butylbenzene	20.0	19.0	95	60-131	
Styrene	20.0	19.0	95	75-121	
tert-Butyl alcohol	200	232	116	15-169	
tert-Butylbenzene	20.0	18.4	92	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.6	93	77-120	
1,1,2,2-Tetrachloroethane	20.0	19.8	99	45-151	
Tetrachloroethene	20.0	18.8	94	70-125	
Toluene	20.0	19.2	96	79-122	
trans-1,2-Dichloroethene	20.0	18.6	93	74-130	
trans-1,3-Dichloropropene	20.0	18.7	93	64-120	
1,2,3-Trichlorobenzene	20.0	18.6	93	42-126	
1,2,4-Trichlorobenzene	20.0	18.9	94	47-120	
1,1,1-Trichloroethane	20.0	18.8	94	65-141	
Trichloroethene	20.0	17.9	90	71-121	
Trichlorofluoromethane	20.0	20.8	104	52-148	
1,2,3-Trichloropropane	20.0	19.2	96	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.4	102	54-148	
1,2,4-Trimethylbenzene	20.0	19.4	97	66-129	
Vinyl acetate	20.0	18.1	91	44-160	
Vinyl chloride	20.0	20.1	100	61-134	
Xylenes, Total	40.0	37.7	94	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: U1280878.D

Lab ID: LCS 240-453571/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	46.3	116	33-155	
Benzene	20.0	20.2	101	77-123	
Bromobenzene	20.0	22.3	112	77-120	
Bromochloromethane	20.0	18.1	90	70-128	
Bromodichloromethane	20.0	20.6	103	73-122	
Bromoform	20.0	21.0	105	47-133	
Bromomethane	20.0	18.2	91	48-144	
2-Butanone	40.0	39.2	98	41-151	
Carbon disulfide	20.0	22.8	114	67-127	
Carbon tetrachloride	20.0	20.5	103	61-142	
Chlorobenzene	20.0	21.4	107	80-120	
Chloroethane	20.0	18.6	93	41-147	
2-Chloroethyl vinyl ether	20.0	22.3	111	29-146	
Chloroform	20.0	19.0	95	74-127	
Chloromethane	20.0	20.2	101	46-148	
2-Chlorotoluene	20.0	22.0	110	73-126	
4-Chlorotoluene	20.0	21.8	109	73-126	
cis-1,2-Dichloroethene	20.0	18.0	90	75-124	
cis-1,3-Dichloropropene	20.0	21.3	107	68-128	
Dibromochloromethane	20.0	20.1	100	75-120	
1,2-Dibromo-3-Chloropropane	20.0	24.3	122	34-136	
1,2-Dibromoethane	20.0	20.8	104	73-120	
Dibromomethane	20.0	20.2	101	67-121	
1,2-Dichlorobenzene	20.0	20.6	103	74-120	
1,3-Dichlorobenzene	20.0	21.4	107	74-120	
1,4-Dichlorobenzene	20.0	21.2	106	75-120	
Dichlorodifluoromethane	20.0	20.6	103	35-137	
1,1-Dichloroethane	20.0	21.2	106	74-126	
1,2-Dichloroethane	20.0	19.2	96	66-129	
1,1-Dichloroethene	20.0	23.5	118	73-129	
1,2-Dichloropropane	20.0	22.4	112	79-127	
1,3-Dichloropropane	20.0	20.8	104	74-122	
2,2-Dichloropropane	20.0	18.6	93	67-137	
1,1-Dichloropropene	20.0	20.8	104	78-120	
Ethylbenzene	20.0	22.4	112	80-120	
Hexachlorobutadiene	20.0	22.9	115	40-120	
2-Hexanone	40.0	44.4	111	43-142	
Isopropylbenzene	20.0	22.2	111	73-123	
Methylene Chloride	20.0	21.5	108	63-134	
4-Methyl-2-pentanone	40.0	42.4	106	43-145	
Methyl tert-butyl ether	20.0	20.7	104	57-127	
m-Xylene & p-Xylene	20.0	22.4	112	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: U1280878.D

Lab ID: LCS 240-453571/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	23.9	120	28-130	
n-Butylbenzene	20.0	22.9	114	54-129	
n-Propylbenzene	20.0	23.4	117	67-130	
o-Xylene	20.0	21.2	106	75-123	
p-Isopropyltoluene	20.0	23.1	116	66-127	
sec-Butylbenzene	20.0	22.2	111	60-131	
Styrene	20.0	21.6	108	75-121	
tert-Butyl alcohol	200	267	134	15-169	
tert-Butylbenzene	20.0	22.7	114	63-126	
1,1,1,2-Tetrachloroethane	20.0	20.8	104	77-120	
1,1,2,2-Tetrachloroethane	20.0	22.1	111	45-151	
Tetrachloroethene	20.0	21.6	108	70-125	
Toluene	20.0	20.6	103	79-122	
trans-1,2-Dichloroethene	20.0	23.1	115	74-130	
trans-1,3-Dichloropropene	20.0	20.1	101	64-120	
1,2,3-Trichlorobenzene	20.0	23.5	117	42-126	
1,2,4-Trichlorobenzene	20.0	23.0	115	47-120	
1,1,1-Trichloroethane	20.0	20.6	103	65-141	
Trichloroethene	20.0	21.6	108	71-121	
Trichlorofluoromethane	20.0	18.7	94	52-148	
1,2,3-Trichloropropane	20.0	22.1	111	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.3	116	54-148	
1,2,4-Trimethylbenzene	20.0	22.1	110	66-129	
Vinyl acetate	20.0	19.7	99	44-160	
Vinyl chloride	20.0	20.2	101	61-134	
Xylenes, Total	40.0	43.6	109	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: U1280904a.D

Lab ID: LCS 240-453771/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	43.5	109	33-155	
Benzene	20.0	19.8	99	77-123	
Bromobenzene	20.0	21.7	108	77-120	
Bromochloromethane	20.0	17.9	89	70-128	
Bromodichloromethane	20.0	20.3	101	73-122	
Bromoform	20.0	20.7	103	47-133	
Bromomethane	20.0	18.4	92	48-144	
2-Butanone	40.0	37.5	94	41-151	
Carbon disulfide	20.0	22.7	114	67-127	
Carbon tetrachloride	20.0	20.2	101	61-142	
Chlorobenzene	20.0	21.2	106	80-120	
Chloroethane	20.0	18.8	94	41-147	
2-Chloroethyl vinyl ether	20.0	20.4	102	29-146	
Chloroform	20.0	18.7	94	74-127	
Chloromethane	20.0	20.3	101	46-148	
2-Chlorotoluene	20.0	21.5	108	73-126	
4-Chlorotoluene	20.0	21.4	107	73-126	
cis-1,2-Dichloroethene	20.0	18.1	90	75-124	
cis-1,3-Dichloropropene	20.0	20.7	104	68-128	
Dibromochloromethane	20.0	20.0	100	75-120	
1,2-Dibromo-3-Chloropropane	20.0	23.8	119	34-136	
1,2-Dibromoethane	20.0	20.5	102	73-120	
Dibromomethane	20.0	19.7	98	67-121	
1,2-Dichlorobenzene	20.0	20.5	103	74-120	
1,3-Dichlorobenzene	20.0	21.0	105	74-120	
1,4-Dichlorobenzene	20.0	20.5	103	75-120	
Dichlorodifluoromethane	20.0	19.9	100	35-137	
1,1-Dichloroethane	20.0	20.9	104	74-126	
1,2-Dichloroethane	20.0	18.6	93	66-129	
1,1-Dichloroethene	20.0	23.3	116	73-129	
1,2-Dichloropropane	20.0	21.5	107	79-127	
1,3-Dichloropropane	20.0	20.3	102	74-122	
2,2-Dichloropropane	20.0	17.6	88	67-137	
1,1-Dichloropropene	20.0	20.7	104	78-120	
Ethylbenzene	20.0	22.3	112	80-120	
Hexachlorobutadiene	20.0	22.8	114	40-120	
2-Hexanone	40.0	42.0	105	43-142	
Isopropylbenzene	20.0	22.2	111	73-123	
Methylene Chloride	20.0	21.6	108	63-134	
4-Methyl-2-pentanone	40.0	39.6	99	43-145	
Methyl tert-butyl ether	20.0	20.4	102	57-127	
m-Xylene & p-Xylene	20.0	22.2	111	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: U1280904a.D

Lab ID: LCS 240-453771/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	23.6	118	28-130	
n-Butylbenzene	20.0	22.6	113	54-129	
n-Propylbenzene	20.0	23.1	115	67-130	
o-Xylene	20.0	21.2	106	75-123	
p-Isopropyltoluene	20.0	22.5	112	66-127	
sec-Butylbenzene	20.0	22.1	111	60-131	
Styrene	20.0	21.3	107	75-121	
tert-Butyl alcohol	200	242	121	15-169	
tert-Butylbenzene	20.0	22.4	112	63-126	
1,1,1,2-Tetrachloroethane	20.0	20.8	104	77-120	
1,1,2,2-Tetrachloroethane	20.0	21.9	110	45-151	
Tetrachloroethene	20.0	21.5	108	70-125	
Toluene	20.0	20.5	103	79-122	
trans-1,2-Dichloroethene	20.0	23.0	115	74-130	
trans-1,3-Dichloropropene	20.0	19.9	100	64-120	
1,2,3-Trichlorobenzene	20.0	23.1	116	42-126	
1,2,4-Trichlorobenzene	20.0	22.5	113	47-120	
1,1,1-Trichloroethane	20.0	19.9	99	65-141	
Trichloroethene	20.0	21.2	106	71-121	
Trichlorofluoromethane	20.0	19.2	96	52-148	
1,2,3-Trichloropropane	20.0	21.1	106	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.4	117	54-148	
1,2,4-Trimethylbenzene	20.0	21.8	109	66-129	
Vinyl acetate	20.0	18.0	90	44-160	
Vinyl chloride	20.0	20.2	101	61-134	
Xylenes, Total	40.0	43.4	109	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: UXM31392.D Lab Sample ID: MB 240-453487/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 09/29/2020 11:51

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-453487/6	UXM31389.D	09/29/2020 10:37
MSA-SW37A-092220	240-136984-1	UXM31410.D	09/29/2020 19:18
MSA-SW37B-092220	240-136984-2	UXM31411.D	09/29/2020 19:43
MSA-SW37C-092220	240-136984-3	UXM31412.D	09/29/2020 20:08

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: U1280881a.D Lab Sample ID: MB 240-453571/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 09/29/2020 19:21

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-453571/5	U1280878.D	09/29/2020 18:13
MSA-SW41B-092220	240-136984-14	U1280882a.D	09/29/2020 19:43
MSA-SW41C-092220	240-136984-15	U1280883.D	09/29/2020 20:06
MSA-SW41D-092220	240-136984-16	U1280884a.D	09/29/2020 20:29
MSA-SW42A-092220	240-136984-17	U1280885.D	09/29/2020 20:51
MSA-SW42B-092220	240-136984-18	U1280886.D	09/29/2020 21:14
MSA-SW42C-092220	240-136984-19	U1280887.D	09/29/2020 21:36
MSA-SW42D-092220	240-136984-20	U1280888a.D	09/29/2020 21:58
MSA-SW43A-092220	240-136984-21	U1280889.D	09/29/2020 22:20
MSA-SW43B-092220	240-136984-22	U1280890.D	09/29/2020 22:43
MSA-SW43C-092220	240-136984-23	U1280891.D	09/29/2020 23:06
MSA-SW43D-092220	240-136984-24	U1280892a.D	09/29/2020 23:28
MSA-SW44A-092220	240-136984-25	U1280893.D	09/29/2020 23:50
MSA-SW44B-092220	240-136984-26	U1280894.D	09/30/2020 00:13
MSA-SW44C-092220	240-136984-27	U1280895.D	09/30/2020 00:36
MSA-SW44D-092220	240-136984-28	U1280896a.D	09/30/2020 00:58
TB-092220	240-136984-29	U1280897.D	09/30/2020 01:20
MSA-SW46A-092220	240-136984-30	U1280898.D	09/30/2020 01:43
MSA-SW47A-092220	240-136984-31	U1280899.D	09/30/2020 02:05
MSA-SW48A-092220	240-136984-32	U1280900.D	09/30/2020 02:27
MSA-SW49A-092220	240-136984-33	U1280901.D	09/30/2020 02:50

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: U1280907.D Lab Sample ID: MB 240-453771/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 09/30/2020 18:21

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-453771/5	U1280904a.D	09/30/2020 17:14
MSA-SW37D-092220	240-136984-4	U1280922b.D	09/30/2020 23:58
MSA-SW38A-092220	240-136984-5	U1280923.D	10/01/2020 00:21
MSA-SW38B-092220	240-136984-6	U1280924b.D	10/01/2020 00:44
MSA-SW38C-092220	240-136984-7	U1280925.D	10/01/2020 01:06
MSA-SW38D-092220	240-136984-8	U1280926b.D	10/01/2020 01:29
MSA-SW40A-092220	240-136984-9	U1280927.D	10/01/2020 01:51
MSA-SW40B-092220	240-136984-10	U1280928b.D	10/01/2020 02:14
MSA-SW40C-092220	240-136984-11	U1280929.D	10/01/2020 02:37
MSA-SW40D-092220	240-136984-12	U1280930b.D	10/01/2020 02:59
MSA-SW41A-092220	240-136984-13	U1280931.D	10/01/2020 03:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB4108.D BFB Injection Date: 04/30/2019

Instrument ID: A3UX12 BFB Injection Time: 13:47

Analysis Batch No.: 378870

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.1	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	86.4	
175	5.0 - 9.0 % of mass 174	6.3	(7.3) 1
176	95.0 - 101.0 % of mass 174	83.6	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.3) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-378870/8	U1269795.D	04/30/2019	14:10
	STD8260 240-378870/9	U1269796.D	04/30/2019	14:33
	STD8260 240-378870/10	U1269797.D	04/30/2019	14:55
	ICIS 240-378870/11	U1269798.D	04/30/2019	15:17
	STD8260 240-378870/12	U1269799.D	04/30/2019	15:39
	STD8260 240-378870/13	U1269800.D	04/30/2019	16:02
	STD8260 240-378870/14	U1269801.D	04/30/2019	16:24
	STDA9 240-378870/18	U1269805.D	04/30/2019	17:52
	STDA9 240-378870/19	U1269806a.D	04/30/2019	18:14
	STDA9 240-378870/20	U1269807.D	04/30/2019	18:37
	STDA9 240-378870/21	U1269808.D	04/30/2019	18:59
	STDA9 240-378870/22	U1269809.D	04/30/2019	19:21
	STDA9 240-378870/23	U1269810.D	04/30/2019	19:43
	STDA9 240-378870/24	U1269811.D	04/30/2019	20:05
	ICV 240-378870/25	U1269812.D	04/30/2019	20:27

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB4436a.D BFB Injection Date: 07/16/2020

Instrument ID: A3UX12 BFB Injection Time: 16:09

Analysis Batch No.: 442963

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.2	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	86.5	
175	5.0 - 9.0 % of mass 174	6.3	(7.3) 1
176	95.0 - 101.0 % of mass 174	84.1	(97.2) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-442963/9	U1279113.D	07/16/2020	17:43
	STD8260 240-442963/10	U1279114.D	07/16/2020	18:05
	STD8260 240-442963/11	U1279115.D	07/16/2020	18:27
	STD8260 240-442963/12	U1279116.D	07/16/2020	18:50
	ICIS 240-442963/13	U1279117.D	07/16/2020	19:12
	STD8260 240-442963/14	U1279118.D	07/16/2020	19:35
	STD8260 240-442963/15	U1279119.D	07/16/2020	19:57
	STD8260 240-442963/16	U1279120.D	07/16/2020	20:20
	ICV 240-442963/17	U1279121.D	07/16/2020	20:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB4496.D BFB Injection Date: 09/29/2020

Instrument ID: A3UX12 BFB Injection Time: 17:06

Analysis Batch No.: 453571

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.3	
75	30.0 - 60.0 % of mass 95	49.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	80.0	
175	5.0 - 9.0 % of mass 174	5.9	(7.4) 1
176	95.0 - 101.0 % of mass 174	77.8	(97.3) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-453571/3	U1280876a.D	09/29/2020	17:28
	CCVIS 240-453571/4	U1280877.D	09/29/2020	17:51
	LCS 240-453571/5	U1280878.D	09/29/2020	18:13
	MB 240-453571/8	U1280881a.D	09/29/2020	19:21
MSA-SW41B-092220	240-136984-14	U1280882a.D	09/29/2020	19:43
MSA-SW41C-092220	240-136984-15	U1280883.D	09/29/2020	20:06
MSA-SW41D-092220	240-136984-16	U1280884a.D	09/29/2020	20:29
MSA-SW42A-092220	240-136984-17	U1280885.D	09/29/2020	20:51
MSA-SW42B-092220	240-136984-18	U1280886.D	09/29/2020	21:14
MSA-SW42C-092220	240-136984-19	U1280887.D	09/29/2020	21:36
MSA-SW42D-092220	240-136984-20	U1280888a.D	09/29/2020	21:58
MSA-SW43A-092220	240-136984-21	U1280889.D	09/29/2020	22:20
MSA-SW43B-092220	240-136984-22	U1280890.D	09/29/2020	22:43
MSA-SW43C-092220	240-136984-23	U1280891.D	09/29/2020	23:06
MSA-SW43D-092220	240-136984-24	U1280892a.D	09/29/2020	23:28
MSA-SW44A-092220	240-136984-25	U1280893.D	09/29/2020	23:50
MSA-SW44B-092220	240-136984-26	U1280894.D	09/30/2020	0:13
MSA-SW44C-092220	240-136984-27	U1280895.D	09/30/2020	0:36
MSA-SW44D-092220	240-136984-28	U1280896a.D	09/30/2020	0:58
TB-092220	240-136984-29	U1280897.D	09/30/2020	1:20
MSA-SW46A-092220	240-136984-30	U1280898.D	09/30/2020	1:43
MSA-SW47A-092220	240-136984-31	U1280899.D	09/30/2020	2:05
MSA-SW48A-092220	240-136984-32	U1280900.D	09/30/2020	2:27
MSA-SW49A-092220	240-136984-33	U1280901.D	09/30/2020	2:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB4497.D BFB Injection Date: 09/30/2020

Instrument ID: A3UX12 BFB Injection Time: 16:06

Analysis Batch No.: 453771

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.5	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.3	
175	5.0 - 9.0 % of mass 174	5.9	(7.2) 1
176	95.0 - 101.0 % of mass 174	79.0	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-453771/3	U1280902a.D	09/30/2020	16:29
	CCVIS 240-453771/4	U1280903.D	09/30/2020	16:51
	LCS 240-453771/5	U1280904a.D	09/30/2020	17:14
	MB 240-453771/8	U1280907.D	09/30/2020	18:21
MSA-SW37D-092220	240-136984-4	U1280922b.D	09/30/2020	23:58
MSA-SW38A-092220	240-136984-5	U1280923.D	10/01/2020	0:21
MSA-SW38B-092220	240-136984-6	U1280924b.D	10/01/2020	0:44
MSA-SW38C-092220	240-136984-7	U1280925.D	10/01/2020	1:06
MSA-SW38D-092220	240-136984-8	U1280926b.D	10/01/2020	1:29
MSA-SW40A-092220	240-136984-9	U1280927.D	10/01/2020	1:51
MSA-SW40B-092220	240-136984-10	U1280928b.D	10/01/2020	2:14
MSA-SW40C-092220	240-136984-11	U1280929.D	10/01/2020	2:37
MSA-SW40D-092220	240-136984-12	U1280930b.D	10/01/2020	2:59
MSA-SW41A-092220	240-136984-13	U1280931.D	10/01/2020	3:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB6489.D BFB Injection Date: 09/08/2020

Instrument ID: A3UX16 BFB Injection Time: 11:23

Analysis Batch No.: 450378

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	48.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	86.4	
175	5.0 - 9.0 % of mass 174	6.5	(7.6) 1
176	95.0 - 101.0 % of mass 174	83.4	(96.5) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-450378/9	UXM31022.D	09/08/2020	12:22
	STD8260 240-450378/10	UXM31023.D	09/08/2020	12:47
	STD8260 240-450378/11	UXM31024.D	09/08/2020	13:12
	ICIS 240-450378/12	UXM31025.D	09/08/2020	13:36
	STD8260 240-450378/13	UXM31026.D	09/08/2020	14:01
	STD8260 240-450378/14	UXM31027.D	09/08/2020	14:26
	STD8260 240-450378/15	UXM31028.D	09/08/2020	14:50
	ICV 240-450378/16	UXM31029.D	09/08/2020	15:15
	STDA9 240-450378/19	UXM31032.D	09/08/2020	16:30
	STDA9 240-450378/20	UXM31033.D	09/08/2020	16:55
	STDA9 240-450378/21	UXM31034.D	09/08/2020	17:19
	STDA9 240-450378/22	UXM31035.D	09/08/2020	17:44
	STDA9 240-450378/23	UXM31036.D	09/08/2020	18:09
	STDA9 240-450378/24	UXM31037.D	09/08/2020	18:33
	ICV 240-450378/25	UXM31038.D	09/08/2020	18:58

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB6506.D BFB Injection Date: 09/29/2020

Instrument ID: A3UX16 BFB Injection Time: 09:24

Analysis Batch No.: 453487

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.3	(0.3) 1
174	Greater than 50% of mass 95	95.3	
175	5.0 - 9.0 % of mass 174	7.3	(7.7) 1
176	95.0 - 101.0 % of mass 174	93.6	(98.2) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.4) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-453487/4	UXM31387.D	09/29/2020	9:47
	CCVIS 240-453487/5	UXM31388.D	09/29/2020	10:12
	LCS 240-453487/6	UXM31389.D	09/29/2020	10:37
	MB 240-453487/9	UXM31392.D	09/29/2020	11:51
MSA-SW37A-092220	240-136984-1	UXM31410.D	09/29/2020	19:18
MSA-SW37B-092220	240-136984-2	UXM31411.D	09/29/2020	19:43
MSA-SW37C-092220	240-136984-3	UXM31412.D	09/29/2020	20:08

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: ICIS 240-442963/13 Date Analyzed: 07/16/2020 19:12

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1279117.D Heated Purge: (Y/N) N

Calibration ID: 57831

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		930091	5.10	747849	7.75	400649	9.97
UPPER LIMIT		1860182	5.60	1495698	8.25	801298	10.47
LOWER LIMIT		465046	4.60	373925	7.25	200325	9.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-442963/17		993337	5.10	838058	7.75	407737	9.97
CCVIS 240-453571/4		1190490	5.10	832661	7.75	421773	9.97
CCVIS 240-453771/4		1163558	5.10	797559	7.75	419334	9.97

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: CCVIS 240-453571/4 Date Analyzed: 09/29/2020 17:51

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1280877.D Heated Purge: (Y/N) N

Calibration ID: 57831

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1190490	5.10	832661	7.75	421773	9.97
UPPER LIMIT		2380980	5.60	1665322	8.25	843546	10.47
LOWER LIMIT		595245	4.60	416331	7.25	210887	9.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-453571/5		1190397	5.10	834222	7.75	419108	9.97
MB 240-453571/8		1144959	5.10	759851	7.75	391859	9.97
240-136984-14	MSA-SW41B-092220	1120628	5.10	753813	7.75	393521	9.97
240-136984-15	MSA-SW41C-092220	1123185	5.10	774174	7.75	406468	9.97
240-136984-16	MSA-SW41D-092220	1146946	5.10	756745	7.76	392659	9.97
240-136984-17	MSA-SW42A-092220	1128555	5.10	746701	7.75	386284	9.97
240-136984-18	MSA-SW42B-092220	1106915	5.10	731377	7.75	371861	9.97
240-136984-19	MSA-SW42C-092220	1086888	5.10	727159	7.76	373413	9.97
240-136984-20	MSA-SW42D-092220	1115919	5.10	748778	7.75	385751	9.97
240-136984-21	MSA-SW43A-092220	1130186	5.10	755064	7.75	386025	9.97
240-136984-22	MSA-SW43B-092220	1149785	5.10	770970	7.75	397623	9.97
240-136984-23	MSA-SW43C-092220	1170304	5.10	812022	7.75	413221	9.97
240-136984-24	MSA-SW43D-092220	1170878	5.10	808014	7.75	421576	9.97
240-136984-25	MSA-SW44A-092220	1170471	5.10	813659	7.75	409152	9.97
240-136984-26	MSA-SW44B-092220	1143771	5.10	759304	7.75	389113	9.97
240-136984-27	MSA-SW44C-092220	1134278	5.10	773889	7.75	415693	9.97
240-136984-28	MSA-SW44D-092220	1093231	5.10	742273	7.75	381264	9.97
240-136984-29	TB-092220	1125181	5.10	752282	7.75	394920	9.97
240-136984-30	MSA-SW46A-092220	1128519	5.10	757102	7.75	401368	9.97
240-136984-31	MSA-SW47A-092220	1114302	5.10	746657	7.75	390594	9.97
240-136984-32	MSA-SW48A-092220	1107222	5.10	760687	7.75	408119	9.97
240-136984-33	MSA-SW49A-092220	1104760	5.10	758536	7.75	396855	9.97

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: CCVIS 240-453771/4 Date Analyzed: 09/30/2020 16:51

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1280903.D Heated Purge: (Y/N) N

Calibration ID: 57831

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1163558	5.10	797559	7.75	419334	9.97
UPPER LIMIT		2327116	5.60	1595118	8.25	838668	10.47
LOWER LIMIT		581779	4.60	398780	7.25	209667	9.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-453771/5		1161794	5.10	788953	7.75	400811	9.97
MB 240-453771/8		1116135	5.10	752142	7.75	393779	9.97
240-136984-4	MSA-SW37D-092220	1107151	5.10	748237	7.75	401309	9.97
240-136984-5	MSA-SW38A-092220	1135944	5.10	806183	7.75	405220	9.97
240-136984-6	MSA-SW38B-092220	1119130	5.10	790001	7.75	400602	9.97
240-136984-7	MSA-SW38C-092220	1127554	5.10	792276	7.75	418314	9.97
240-136984-8	MSA-SW38D-092220	1135269	5.10	800416	7.75	413446	9.97
240-136984-9	MSA-SW40A-092220	1103426	5.10	730942	7.75	392446	9.97
240-136984-10	MSA-SW40B-092220	1098231	5.10	748614	7.75	386922	9.97
240-136984-11	MSA-SW40C-092220	1117947	5.10	741520	7.76	390250	9.97
240-136984-12	MSA-SW40D-092220	1077002	5.10	708348	7.75	357909	9.97
240-136984-13	MSA-SW41A-092220	1098436	5.10	737964	7.75	385530	9.97

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: ICIS 240-450378/12 Date Analyzed: 09/08/2020 13:36

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM31025.D Heated Purge: (Y/N) N

Calibration ID: 58341

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		955305	5.87	743399	8.60	412806	10.86
UPPER LIMIT		1910610	6.37	1486798	9.10	825612	11.36
LOWER LIMIT		477653	5.37	371700	8.10	206403	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-450378/16		937717	5.87	743116	8.60	412044	10.86
ICV 240-450378/25		909527	5.87	734035	8.60	394515	10.86
CCVIS 240-453487/5		906648	5.87	704882	8.60	407895	10.86

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: CCVIS 240-453487/5 Date Analyzed: 09/29/2020 10:12

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM31388.D Heated Purge: (Y/N) N

Calibration ID: 58345

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		906648	5.87	704882	8.60	407895	10.86
UPPER LIMIT		1813296	6.37	1409764	9.10	815790	11.36
LOWER LIMIT		453324	5.37	352441	8.10	203948	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-453487/4		876540	5.87	705466	8.60	386736	10.86
LCS 240-453487/6		913212	5.87	715336	8.60	411154	10.86
MB 240-453487/9		783166	5.87	648751	8.60	366175	10.86
240-136984-1	MSA-SW37A-092220	768040	5.87	663323	8.60	393952	10.86
240-136984-2	MSA-SW37B-092220	778405	5.87	671423	8.60	388214	10.86
240-136984-3	MSA-SW37C-092220	819428	5.87	695091	8.60	404652	10.86

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-378870/14	U1269801.D
Level 2	STD8260 240-378870/13	U1269800.D
Level 3	STD8260 240-378870/12	U1269799.D
Level 4	ICIS 240-378870/11	U1269798.D
Level 5	STD8260 240-378870/10	U1269797.D
Level 6	STD8260 240-378870/9	U1269796.D
Level 7	STD8260 240-378870/8	U1269795.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3633 0.4173	0.3307 0.4106	0.3625	0.3979	0.4130	Ave		0.3850			0.1000	8.6		20.0			
Chloromethane	+++++ 0.3349	0.3157 0.3582	0.3458	0.3237	0.3462	Ave		0.3374			0.1000	4.7		20.0			
Butadiene	0.3642 0.3859	0.3535 0.3787	0.3596	0.3692	0.3849	Ave		0.3709				3.4		20.0			
Vinyl chloride	0.3531 0.3876	0.3746 0.3870	0.3765	0.3716	0.3891	Ave		0.3771			0.1000	3.4		20.0			
Bromomethane	0.2359 0.2352	0.2527 0.1909	0.2447	0.2332	0.2368	Ave		0.2328			0.0500	8.5		20.0			
Chloroethane	0.2531 0.2446	0.2455 0.2027	0.2395	0.2349	0.2376	Ave		0.2368			0.0500	6.8		20.0			
Dichlorofluoromethane	0.4736 0.4813	0.4798 0.4585	0.4834	0.4616	0.4743	Ave		0.4732				2.1		20.0			
Trichlorofluoromethane	0.4112 0.4427	0.3928 0.4146	0.4217	0.4207	0.4388	Ave		0.4204			0.1000	4.0		20.0			
Ethyl ether	0.2685 0.2474	0.2624 0.2312	0.2543	0.2471	0.2570	Ave		0.2526				4.8		20.0			
Acrolein	0.0778 0.0735	0.0754 +++++	0.0774	0.0729	0.0759	Ave		0.0755				2.7		20.0			
1,1-Dichloroethene	0.4303 0.4053	0.4157 0.4052	0.4117	0.4077	0.4183	Ave		0.4135			0.1000	2.2		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2628 0.2806	0.2614 0.2733	0.2761	0.2772	0.2842	Ave		0.2737			0.0500	3.2		20.0			
Acetone	+++++ 0.1421	0.2958 +++++	0.1578	0.1420	0.1462	Lin1	0.3105	0.1398			0.0100	2.7			1.0000		0.9900
Iodomethane	0.4620 0.4312	0.4507 0.4253	0.4283	0.4317	0.4473	Ave		0.4395				3.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	1.1582 0.8815	1.0493 0.8578	0.9096	0.8961	0.9091	Ave		0.9516			0.1000	11.6		20.0			
3-Chloro-1-propene	0.5306 0.4520	0.4842 0.4523	0.4599	0.4492	0.4714	Ave		0.4714				6.1		20.0			
Methyl acetate	0.3734 0.3369	0.3585 +++++	0.3445	0.3309	0.3439	Ave		0.3480			0.1000	4.4		20.0			
Methylene Chloride	+++++ 0.3493	1.2721 0.3463	0.4243	0.3723	0.3728	Lin1	0.9295	0.3363			0.1000	2.8			1.0000		0.9900
2-Methyl-2-propanol	0.0805 0.0680	0.0761 +++++	0.0730	0.0700	0.0718	Ave		0.0732				6.1		20.0			
Acrylonitrile	0.1960 0.1727	0.1891 +++++	0.1798	0.1713	0.1778	Ave		0.1811				5.3		20.0			
trans-1,2-Dichloroethene	0.4388 0.3861	0.4327 0.3845	0.4006	0.3951	0.4062	Ave		0.4063			0.1000	5.3		20.0			
Methyl tert-butyl ether	0.8683 0.8061	0.8857 0.7696	0.8607	0.8334	0.8545	Ave		0.8398			0.1000	4.8		20.0			
Hexane	0.4565 0.4534	0.4143 0.4249	0.4503	0.4473	0.4579	Ave		0.4435				3.8		20.0			
1,1-Dichloroethane	0.5177 0.4943	0.5212 0.4907	0.5091	0.4989	0.5149	Ave		0.5067			0.2000	2.4		20.0			
Vinyl acetate	0.5580 0.5787	0.5728 +++++	0.5589	0.5619	0.5864	Ave		0.5694				2.1		20.0			
2,2-Dichloropropane	0.3469 0.3079	0.3283 0.3227	0.3273	0.3311	0.3375	Ave		0.3288				3.7		20.0			
cis-1,2-Dichloroethene	0.3560 0.3343	0.3649 0.3316	0.3413	0.3352	0.3475	Ave		0.3444			0.1000	3.6		20.0			
2-Butanone (MEK)	0.0615 0.0642	0.0597 +++++	0.0632	0.0607	0.0645	Ave		0.0623			0.0100	3.2		20.0			
Chlorobromomethane	0.2785 0.2285	0.2509 0.2244	0.2357	0.2316	0.2400	Ave		0.2413				7.7		20.0			
Tetrahydrofuran	0.1604 0.1508	0.1429 +++++	0.1501	0.1446	0.1514	Ave		0.1500				4.1		20.0			
Chloroform	0.5004 0.4703	0.4870 0.4731	0.4836	0.4829	0.4938	Ave		0.4844			0.2000	2.2		20.0			
1,1,1-Trichloroethane	0.3922 0.4192	0.4015 0.4179	0.4170	0.4276	0.4345	Ave		0.4157			0.1000	3.5		20.0			
Cyclohexane	0.5033 0.5135	0.4858 0.4766	0.5239	0.5157	0.5153	Ave		0.5049			0.1000	3.5		20.0			
1,1-Dichloropropene	0.4381 0.4050	0.4072 0.3945	0.4119	0.4049	0.4145	Ave		0.4109				3.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.3547 0.3535	0.3314 0.3513	0.3425	0.3636	0.3768	Ave		0.3534			0.1000	4.1		20.0			
Isobutyl alcohol	0.0214 0.0190	0.0189 +++++	0.0202	0.0197	0.0201	Ave		0.0199				4.6		20.0			
Benzene	1.2351 1.1561	1.2006 1.1376	1.1748	1.1526	1.1878	Ave		1.1778			0.5000	2.8		20.0			
1,2-Dichloroethane	0.3915 0.3540	0.3893 0.3393	0.3455	0.3539	0.3641	Ave		0.3625			0.1000	5.7		20.0			
n-Heptane	+++++ 0.2241	0.8189 0.2083	0.2765	0.2406	0.2291	Lin1	0.6210	0.2083				3.9			0.9990		0.9900
Trichloroethene	0.3459 0.3108	0.3166 0.3021	0.3026	0.3105	0.3179	Ave		0.3152			0.1500	4.7		20.0			
Methylcyclohexane	0.5757 0.5798	0.5136 0.5210	0.5842	0.5782	0.5985	Ave		0.5644			0.1000	5.9		20.0			
1,2-Dichloropropane	0.2504 0.2495	0.2406 0.2466	0.2499	0.2468	0.2580	Ave		0.2488			0.1000	2.1		20.0			
Dibromomethane	0.2511 0.2018	0.2266 0.1879	0.1970	0.2002	0.2123	Ave		0.2110				10.2		20.0			
1,4-Dioxane	0.0035 0.0040	0.0034 0.0038	0.0047	0.0044	0.0043	Ave		0.0040				12.1		20.0			
Dichlorobromomethane	0.3369 0.3474	0.3224 0.3346	0.3359	0.3412	0.3584	Ave		0.3396			0.1500	3.3		20.0			
2-Chloroethyl vinyl ether	0.1875 0.1911	0.1776 0.1507	0.1862	0.1818	0.1895	Ave		0.1806				7.7		20.0			
cis-1,3-Dichloropropene	0.4366 0.4171	0.4107 0.3952	0.4011	0.4068	0.4265	Ave		0.4134			0.1500	3.5		20.0			
4-Methyl-2-pentanone (MIBK)	0.3839 0.3806	0.3808 +++++	0.3872	0.3769	0.3911	Ave		0.3834			0.0500	1.3		20.0			
Toluene	1.8023 1.6267	1.6891 1.6145	1.6659	1.6181	1.7001	Ave		1.6738			0.4000	4.0		20.0			
trans-1,3-Dichloropropene	0.5769 0.5343	0.5645 0.5065	0.5263	0.5262	0.5576	Ave		0.5418			0.1000	4.6		20.0			
Ethyl methacrylate	0.5226 0.5394	0.4946 0.4478	0.5518	0.5362	0.5613	Ave		0.5220				7.5		20.0			
1,1,2-Trichloroethane	0.3778 0.3286	0.3178 0.3033	0.3333	0.3248	0.3429	Ave		0.3327			0.1000	7.1		20.0			
Tetrachloroethene	0.4570 0.4417	0.4243 0.4396	0.4476	0.4415	0.4623	Ave		0.4449			0.1500	2.8		20.0			
1,3-Dichloropropane	0.6595 0.5804	0.5855 0.5367	0.5879	0.5738	0.6044	Ave		0.5898				6.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4148 0.3823	0.3921 +++++	0.4171	0.3943	0.3992	Ave		0.4000			0.0500	3.4		20.0			
Chlorodibromomethane	0.3436 0.3509	0.3261 0.3352	0.3393	0.3492	0.3738	Ave		0.3454				4.4		20.0			
Ethylene Dibromide	0.3803 0.3593	0.3661 0.3178	0.3511	0.3562	0.3736	Ave		0.3578				5.7		20.0			
Chlorobenzene	1.1917 1.0431	1.0788 1.0358	1.0620	1.0437	1.1063	Ave		1.0802			0.3000	5.1		20.0			
1,1,1,2-Tetrachloroethane	0.3770 0.3768	0.3617 0.3870	0.3721	0.3706	0.3978	Ave		0.3776				3.1		20.0			
Ethylbenzene	0.6003 0.5897	0.5954 0.5969	0.6098	0.5997	0.6287	Ave		0.6029				2.1		20.0			
m-Xylene & p-Xylene	0.7152 0.7393	0.7520 0.7353	0.7549	0.7557	0.7836	Ave		0.7480				2.8		20.0			
o-Xylene	0.7592 0.7370	0.7654 0.7387	0.7487	0.7584	0.7848	Ave		0.7560				2.2		20.0			
Styrene	1.2553 1.2064	1.1402 1.1932	1.2030	1.2192	1.2715	Ave		1.2127			0.3000	3.5		20.0			
Bromoform	0.2213 0.2662	0.2350 0.2312	0.2485	0.2670	0.2802	Ave		0.2499			0.1000	8.7		20.0			
Isopropylbenzene	1.9470 1.9256	1.9183 1.9274	2.0090	1.9856	2.0675	Ave		1.9686			0.1000	2.8		20.0			
1,1,2,2-Tetrachloroethane	0.9347 1.0089	0.9925 0.8398	1.0421	1.0190	1.0529	Ave		0.9843			0.3000	7.6		20.0			
Bromobenzene	0.9090 0.8447	0.8758 0.8518	0.8455	0.8624	0.8771	Ave		0.8666				2.6		20.0			
1,2,3-Trichloropropane	0.3616 0.3604	0.3856 +++++	0.3726	0.3724	0.3827	Ave		0.3726				2.8		20.0			
trans-1,4-Dichloro-2-butene	0.3307 0.3153	0.3082 +++++	0.3131	0.3186	0.3275	Ave		0.3189				2.7		20.0			
N-Propylbenzene	0.9647 0.9889	0.9069 0.9978	0.9987	1.0115	1.0363	Ave		0.9864				4.2		20.0			
2-Chlorotoluene	0.8029 0.8162	0.7917 0.8480	0.8225	0.8298	0.8726	Ave		0.8263				3.3		20.0			
1,3,5-Trimethylbenzene	2.7098 2.8199	2.6571 2.8891	2.8991	2.9082	3.0109	Ave		2.8420				4.3		20.0			
4-Chlorotoluene	0.8644 0.8286	0.8857 0.8408	0.8361	0.8393	0.8746	Ave		0.8528				2.6		20.0			
tert-Butylbenzene	2.4839 2.5923	2.3390 2.6462	2.6216	2.6249	2.7660	Ave		2.5820				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.9044 2.8957	2.7731 2.9649	2.9896	2.9855	3.0915	Ave		2.9435				3.4		20.0			
sec-Butylbenzene	3.4931 3.7070	3.4481 3.7162	3.8562	3.8180	3.9769	Ave		3.7165				5.1		20.0			
1,3-Dichlorobenzene	1.8530 1.6328	1.7598 1.6496	1.6537	1.6730	1.7292	Ave		1.7073			0.6000	4.6		20.0			
4-Isopropyltoluene	2.9898 3.1812	3.0425 3.2731	3.2720	3.2957	3.4448	Ave		3.2142				4.9		20.0			
1,4-Dichlorobenzene	1.9866 1.6505	1.8499 1.6771	1.6636	1.7046	1.7595	Ave		1.7560			0.5000	7.0		20.0			
n-Butylbenzene	2.5658 2.7237	2.6277 2.8018	2.7646	2.7987	2.9054	Ave		2.7411				4.2		20.0			
1,2-Dichlorobenzene	1.8655 1.5698	1.6719 1.6169	1.5834	1.6103	1.6665	Ave		1.6549			0.4000	6.1		20.0			
1,2-Dibromo-3-Chloropropane	0.3275 0.3332	0.2864 +++++	0.3130	0.3187	0.3491	Ave		0.3213			0.0500	6.6		20.0			
1,2,4-Trichlorobenzene	1.2956 1.0915	1.2328 1.2075	1.0259	1.0636	1.1751	Ave		1.1560			0.2000	8.5		20.0			
Hexachlorobutadiene	0.5365 0.4716	0.6238 0.5042	0.4510	0.4832	0.5034	Ave		0.5105				11.1		20.0			
Naphthalene	3.8848 3.4986	3.9098 3.2717	3.4440	3.5237	3.8266	Ave		3.6227				6.9		20.0			
1,2,3-Trichlorobenzene	1.2332 0.9963	1.1549 1.1194	0.9312	0.9820	1.0736	Ave		1.0701				10.0		20.0			
Dibromofluoromethane (Surr)	+++++ 0.2632	0.2807 0.2572	0.2551	0.2667	0.2730	Ave		0.2660				3.6		20.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2956	0.3370 0.2788	0.2849	0.2939	0.3026	Ave		0.2988				6.9		20.0			
Toluene-d8 (Surr)	+++++ 1.3548	1.6210 1.3318	1.3946	1.3817	1.4168	Ave		1.4168				7.4		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.4999	0.6202 0.4892	0.5085	0.4983	0.5153	Ave		0.5219				9.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-378870/14	U1269801.D
Level 2	STD8260 240-378870/13	U1269800.D
Level 3	STD8260 240-378870/12	U1269799.D
Level 4	ICIS 240-378870/11	U1269798.D
Level 5	STD8260 240-378870/10	U1269797.D
Level 6	STD8260 240-378870/9	U1269796.D
Level 7	STD8260 240-378870/8	U1269795.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	11044 1567191	19984 2052069	224597	496091	1030351	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	+++++ 1257715	19082 1789816	214265	403612	863765	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	11073 1449292	21365 1892418	222795	460371	960327	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	10733 1455844	22643 1934142	233314	463335	970649	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	7170 883232	15275 953805	151619	290732	590824	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloroethane	FB	Ave	7695 918797	14836 1012997	148379	292854	592754	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	14396 1807740	29001 2290963	299518	575498	1183160	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	12502 1662729	23742 2071934	261265	524611	1094737	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	8163 929149	15857 1155554	157567	308106	641131	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	11833 1380457	22786 +++++	239777	454386	946268	2.50 300	5.00 +++++	50.0	100	200
1,1-Dichloroethene	FB	Ave	13081 1522285	25123 2024854	255094	508373	1043595	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	7988 1054000	15799 1365935	171045	345600	708990	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Lin1	+++++ 1067191	35750 +++++	195589	354093	729471	+++++ 120	2.00 +++++	20.0	40.0	80.0
Iodomethane	FB	Ave	14045 1619670	27241 2125484	265387	538227	1115860	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	35208 3310792	63418 4286373	563594	1117299	2267883	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
3-Chloro-1-propene	FB	Ave	16129 1697487	29262 2260088	284969	560067	1176034	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl acetate	FB	Ave	22700 2530486	43336 +++++	426943	825132	1715851	1.00 120	2.00 +++++	20.0	40.0	80.0
Methylene Chloride	FB	Lin1	+++++ 1311846	76885 1730659	262888	464186	930086	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
2-Methyl-2-propanol	FB	Ave	24459 2552659	46009 +++++	452013	872907	1790088	5.00 600	10.0 +++++	100	200	400
Acrylonitrile	FB	Ave	59579 6486159	114297 +++++	1113771	2135420	4436089	5.00 600	10.0 +++++	100	200	400
trans-1,2-Dichloroethene	FB	Ave	13341 1450217	26151 1921542	248232	492658	1013326	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl tert-butyl ether	FB	Ave	26396 3027404	53530 3846016	533312	1039087	2131851	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	13878 1702774	25038 2123105	279012	557732	1142313	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	15738 1856520	31501 2451944	315456	622049	1284657	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl acetate	FB	Ave	16963 2173371	34619 +++++	346293	700651	1462850	0.500 60.0	1.00 +++++	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	10546 1156337	19842 1612711	202782	412857	841953	0.500 60.0	1.00 80.0	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	10822 1255612	22054 1657053	211496	417933	866934	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	3739 482200	7212 +++++	78345	151425	322049	1.00 120	2.00 +++++	20.0	40.0	80.0
Chlorobromomethane	FB	Ave	8465 858112	15161 1121143	146065	288735	598675	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Ave	9753 1132369	17279 +++++	185955	360495	755334	1.00 120	2.00 +++++	20.0	40.0	80.0
Chloroform	FB	Ave	15213 1766502	29434 2363996	299618	602114	1231881	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	11924 1574408	24264 2088351	258363	533200	1083939	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	15299 1928649	29359 2381579	324586	642956	1285622	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	13318 1521069	24613 1971517	255221	504905	1034085	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	10783 1327796	20029 1755611	212237	453383	940122	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	16262 1784970	28500 +++++	312412	615511	1254651	12.5 1500	25.0 +++++	250	500	1000

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	37546 4341955	72564 5684570	727951	1437120	2963156	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	11902 1329568	23529 1695389	214099	441298	908435	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	+++++ 841832	49490 1041160	171315	299975	571599	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Trichloroethene	FB	Ave	10516 1167306	19135 1509661	187506	387176	793097	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	17502 2177617	31043 2603437	361953	720921	1493017	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	7613 937223	14544 1232396	154817	307704	643520	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromomethane	FB	Ave	7633 757811	13696 938835	122075	249664	529643	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	2151 298901	4063 374894	58179	110260	212766	10.0 1200	20.0 1600	200	400	800
Dichlorobromomethane	FB	Ave	10242 1304681	19488 1672281	208118	425494	894000	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	11398 1435551	21468 1506274	230721	453314	945507	1.00 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	13273 1566673	24819 1974815	248543	507172	1063891	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	23343 2858560	46025 +++++	479830	939875	1951525	1.00 120	2.00 +++++	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	36733 4263658	69512 5446274	693965	1384009	2883485	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	11758 1400355	23230 1708636	219235	450107	945703	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	10652 1413898	20354 1510478	229870	458650	952052	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	7700 861361	13079 1023274	138863	277803	581540	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	9314 1157587	17463 1482922	186459	377626	784044	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	13441 1521180	24096 1810575	244890	490824	1025142	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	16906 2004012	32274 +++++	347483	674546	1354308	1.00 120	2.00 +++++	20.0	40.0	80.0
Chlorodibromomethane	CBNZ d5	Ave	7003 919717	13420 1130859	141322	298689	633936	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylene Dibromide	CBNZ d5	Ave	7750 941630	15068 1071876	146267	304693	633639	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	24288 2734043	44396 3494036	442384	892667	1876430	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	7683 987481	14884 1305612	154999	316979	674622	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	12234 1545630	24504 2013623	254036	512928	1066262	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	14577 1937780	30946 2480479	314453	646378	1329053	0.500 60.0	1.00 80.0	10.0	20.0	40.0
o-Xylene	CBNZ d5	Ave	15474 1931683	31499 2491810	311889	648657	1331003	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Styrene	CBNZ d5	Ave	25585 3161922	46924 4024869	501125	1042824	2156541	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromoform	CBNZ d5	Ave	4510 697809	9669 780055	103500	228364	475190	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	39682 5047046	78943 6501576	836910	1698359	3506656	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	10861 1444688	23506 1530842	237420	473524	982071	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromobenzene	DCBd 4	Ave	10562 1209647	20743 1552619	192642	400745	818090	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	4202 516092	9133 +++++	84888	173052	356976	0.500 60.0	1.00 +++++	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	3843 451551	7300 +++++	71337	148061	305416	0.500 60.0	1.00 +++++	10.0	20.0	40.0
N-Propylbenzene	DCBd 4	Ave	11209 1416141	21478 1818752	227545	470058	966595	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	9330 1168744	18750 1545785	187392	385627	813877	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	31487 4038075	62930 5266204	660502	1351432	2808258	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	10044 1186575	20976 1532612	190484	390042	815761	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butylbenzene	DCBd 4	Ave	28862 3712091	55395 4823562	597272	1219799	2579873	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	33748 4146548	65676 5404391	681127	1387358	2883392	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	40589 5308368	81663 6773871	878572	1774243	3709245	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	21531 2338079	41679 3006850	376754	777449	1612862	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Isopropyltoluene	DCBd 4	Ave	34741 4555449	72056 5966210	745472	1531521	3212945	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	23084 2363448	43811 3056952	379011	792152	1641044	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	29814 3900305	62232 5107201	629870	1300578	2709817	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	21676 2247875	39597 2947208	360738	748334	1554362	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	3806 477069	6783 +++++	71305	148124	325575	0.500 60.0	1.00 +++++	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	15055 1562937	29197 2200965	233740	494279	1096024	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	6234 675267	14773 918998	102755	224541	469488	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	45140 5009873	92597 5963618	784648	1637491	3569051	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	14329 1426661	27351 2040460	212164	456339	1001370	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 988457	16968 1285236	158064	332600	680998	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1110364	20365 1393127	176503	366398	754824	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 3550979	66709 4492583	580962	1181805	2403057	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 1310206	25525 1650135	211821	426237	874019	+++++ 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-378870/14	U1269801.D
Level 2	STD8260 240-378870/13	U1269800.D
Level 3	STD8260 240-378870/12	U1269799.D
Level 4	ICIS 240-378870/11	U1269798.D
Level 5	STD8260 240-378870/10	U1269797.D
Level 6	STD8260 240-378870/9	U1269796.D
Level 7	STD8260 240-378870/8	U1269795.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetone	+++++ +++++	0.5						50				
Methylene Chloride	+++++	1.9						50				
n-Heptane	+++++	-5.0						50				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-378870/24	U1269811.D
Level 2	STDA9 240-378870/23	U1269810.D
Level 3	STDA9 240-378870/22	U1269809.D
Level 4	STDA9 240-378870/21	U1269808.D
Level 5	STDA9 240-378870/20	U1269807.D
Level 6	STDA9 240-378870/19	U1269806a.D
Level 7	STDA9 240-378870/18	U1269805.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	+++++ 0.0577	0.1078 0.0596	0.0682	0.0691	0.0636	Lin1	0.5602	0.0598				9.5			0.9970		0.9900
Diisopropyl ether	0.2929 0.2738	0.2765 0.2696	0.2366	0.2613	0.2780	Ave		0.2698				6.5		20.0			
2-Chloro-1,3-butadiene	0.4786 0.4680	0.4584 0.4733	0.3826	0.4441	0.4787	Ave		0.4548				7.5		20.0			
Ethyl-t-butyl ether (ETBE)	0.9231 0.8774	0.9560 0.8757	0.7996	0.8502	0.8967	Ave		0.8827				5.7		20.0			
Ethyl acetate	0.3760 0.3469	0.3982 0.3449	0.3438	0.3893	0.3652	Ave		0.3663				6.1		20.0			
Propionitrile	+++++ 0.0732	0.1272 0.0718	0.0809	0.0836	0.0763	Lin1	0.6174	0.0731				7.6			0.9980		0.9900
Methacrylonitrile	0.2701 0.2172	0.3179 0.2133	0.2341	0.2476	0.2295	Ave		0.2471				14.8		20.0			
Tert-amyl-methyl ether (TAME)	0.9292 0.8961	1.0049 0.8887	0.8413	0.8660	0.9194	Ave		0.9065				5.8		20.0			
n-Butanol	+++++ 0.0209	0.0329 0.0206	0.0222	0.0238	0.0217	Ave		0.0237				19.8		20.0			
Ethyl acrylate	0.3529 0.3862	0.3726 0.3785	0.3551	0.4376	0.4033	Ave		0.3838				7.7		20.0			
Methyl methacrylate	0.2476 0.2428	0.2675 0.2448	0.2382	0.2817	0.2626	Ave		0.2550				6.2		20.0			
2-Nitropropane	0.0709 0.0758	0.0875 0.0776	0.0674	0.0807	0.0782	Ave		0.0769				8.5		20.0			
n-Butyl acetate	0.6652 0.7069	0.7222 0.6984	0.6558	0.7261	0.7418	Ave		0.7023				4.5		20.0			
1-Chlorohexane	0.6537 0.5756	0.5752 0.5744	0.4577	0.5686	0.5992	Ave		0.5721				10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	+++++ 0.0254	0.0488 0.0260	0.0323	0.0327	0.0271	Lin1	0.2887	0.0263				16.6			0.9940		0.9900
Pentachloroethane	0.4041 0.4805	0.3994 0.4895	0.3847	0.4448	0.5013	Ave		0.4435				10.8		20.0			
1,2,3-Trimethylbenzene	3.0615 3.0093	2.9218 3.0278	2.5419	2.9248	3.1903	Ave		2.9539				6.9		20.0			
Benzyl chloride	2.0905 2.1764	2.1592 2.2087	1.9104	2.1155	2.2664	Ave		2.1325				5.3		20.0			
1,3,5-Trichlorobenzene	1.4854 1.1716	1.4735 1.1754	1.0388	1.2095	1.2541	Ave		1.2583				13.1		20.0			
2-Methylnaphthalene	+++++ 1.7667	4.7158 1.7419	2.2446	2.4328	1.9992	Ave		2.4835				45.3	*	20.0			
1-Chloro-1-fluoroethane TIC	0.2127 0.2309	0.2361 0.2314	0.1893	0.2219	0.2344	Ave		0.2224				7.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-378870/24	U1269811.D
Level 2	STDA9 240-378870/23	U1269810.D
Level 3	STDA9 240-378870/22	U1269809.D
Level 4	STDA9 240-378870/21	U1269808.D
Level 5	STDA9 240-378870/20	U1269807.D
Level 6	STDA9 240-378870/19	U1269806a.D
Level 7	STDA9 240-378870/18	U1269805.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Lin1	+++++ 2101087	63285 2937339	409382	871009	1532543	+++++ 600	10.0 800	100	200	400
Diisopropyl ether	FB	Ave	8647 996957	16227 1328252	141946	329172	669786	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	14129 1704173	26905 2331461	229589	559516	1153399	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	27251 3195035	56113 4314222	479805	1071213	2160558	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl acetate	FB	Ave	22198 2526193	46743 3398125	412608	980925	1760036	1.00 120	2.00 160	20.0	40.0	80.0
Propionitrile	FB	Lin1	+++++ 2665338	74659 3538021	485430	1053523	1837399	+++++ 600	10.0 800	100	200	400
Methacrylonitrile	FB	Ave	79733 7907632	186608 10507625	1404926	3119038	5530137	5.00 600	10.0 800	100	200	400
Tert-amyl-methyl ether (TAME)	FB	Ave	27432 3262969	58983 4378322	504826	1091058	2215191	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butanol	FB	Ave	+++++ 1898282	48347 2536242	333535	748361	1305583	+++++ 1500	25.0 2000	250	500	1000
Ethyl acrylate	FB	Ave	10419 1406385	21871 1864766	213092	551287	971753	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	14620 1767987	31407 2411882	285867	709925	1265557	1.00 120	2.00 160	20.0	40.0	80.0
2-Nitropropane	FB	Ave	4184 551865	10267 764598	80875	203229	377049	1.00 120	2.00 160	20.0	40.0	80.0
n-Butyl acetate	CBNZ d5	Ave	12754 1668759	27432 2199815	254037	629474	1173240	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	12533 1358865	21851 1809238	177328	492974	947724	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexanone	CBNZ d5	Lin1	+++++ 599459	18555 818532	124978	283168	429161	+++++ 600	10.0 800	100	200	400

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Pentachloroethane	DCBd 4	Ave	8865 1304124	17876 1762320	166979	425029	878170	1.00 120	2.00 160	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	33584 4083704	65393 5450282	551639	1397402	2794328	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	22933 2953444	48324 3975844	414592	1010740	1985115	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	16295 1589890	32979 2115775	225441	577890	1098427	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	+++++ 4794940	211087 6271239	974233	2324694	3502147	+++++ 120	2.00 160	20.0	40.0	80.0
1-Chloro-1-fluoroethane TIC	FB	Ave	6280 840871	13857 1139881	113596	279594	564873	0.500 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-378870/24	U1269811.D
Level 2	STDA9 240-378870/23	U1269810.D
Level 3	STDA9 240-378870/22	U1269809.D
Level 4	STDA9 240-378870/21	U1269808.D
Level 5	STDA9 240-378870/20	U1269807.D
Level 6	STDA9 240-378870/19	U1269806a.D
Level 7	STDA9 240-378870/18	U1269805.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetonitrile	+++++	-13.3						50				
Propionitrile	+++++	-10.5						50				
Cyclohexanone	+++++	-23.9						50				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442963/9	U1279113.D
Level 2	STD8260 240-442963/10	U1279114.D
Level 3	STD8260 240-442963/11	U1279115.D
Level 4	STD8260 240-442963/12	U1279116.D
Level 5	ICIS 240-442963/13	U1279117.D
Level 6	STD8260 240-442963/14	U1279118.D
Level 7	STD8260 240-442963/15	U1279119.D
Level 8	STD8260 240-442963/16	U1279120.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2390 0.3129	0.2536 0.3252	0.3597 0.3162	0.3422	0.3504	Ave		0.3124			0.1000	14.1		20.0			
Chloromethane	+++++ 0.4740	0.4519 0.4911	0.6754 0.4935	0.5272	0.6043	Ave		0.5311			0.1000	15.1		20.0			
Butadiene	0.3380 0.3348	0.3323 0.3375	0.4655 0.3574	0.3596	0.4197	Ave		0.3681				13.2		20.0			
Vinyl chloride	0.3197 0.3450	0.3366 0.3583	0.4557 0.3547	0.3872	0.4368	Ave		0.3743			0.1000	13.0		20.0			
Bromomethane	0.2009 0.2274	0.2172 0.2663	0.2724 0.2283	0.2866	0.2859	Ave		0.2481			0.0500	13.5		20.0			
Chloroethane	0.2176 0.2511	0.2297 0.3069	0.3005 0.2594	0.3072	0.3070	Ave		0.2724			0.0500	13.8		20.0			
Dichlorofluoromethane	0.4674 0.5232	0.5247 0.6044	0.5900 0.5160	0.6512	0.6735	Ave		0.5688				12.7		20.0			
Trichlorofluoromethane	0.3890 0.4108	0.4376 0.4705	0.4170 0.4108	0.4760	0.4898	Ave		0.4377			0.1000	8.4		20.0			
Ethyl ether	0.2445 0.3001	0.2923 0.3103	0.3107 0.2846	0.3545	0.3327	Ave		0.3037				10.8		20.0			
Acrolein	0.0233 0.0240	0.0267 0.0272	0.0311 0.0258	0.0257	0.0255	Ave		0.0262				9.1		20.0			
1,1-Dichloroethene	0.3290 0.3749	0.4147 0.4370	0.4520 0.3754	0.4141	0.4198	Ave		0.4021			0.1000	9.9		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1703 0.2344	0.2346 0.2758	0.2511 0.2342	0.2376	0.2515	Ave		0.2362			0.0500	12.8		20.0			
Acetone	+++++ 0.1137	0.1589 0.1130	0.1529 0.0979	0.1343	0.1206	Ave		0.1273			0.0100	17.6		20.0			
Iodomethane	0.3169 0.3908	0.3792 0.4477	0.4301 0.3858	0.4683	0.4537	Ave		0.4091				12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.7494 0.7482	0.7327 0.8730	0.9202 0.7498	0.8549	0.8490	Ave		0.8097			0.1000	8.9		20.0			
3-Chloro-1-propene	0.3972 0.4081	0.4111 0.4745	0.5803 0.4084	0.4638	0.4643	Ave		0.4509				13.4		20.0			
Methyl acetate	0.2712 0.2890	0.2800 0.3141	0.3954 0.2690	0.3231	0.3105	Ave		0.3065			0.1000	13.5		20.0			
Methylene Chloride	0.3304 0.3332	0.3430 0.3813	0.4456 0.3268	0.3981	0.3811	Ave		0.3674			0.1000	11.4		20.0			
tert-Butyl alcohol	+++++ 0.0382	0.0346 0.0353	0.0469 0.0302	0.0431	0.0376	Ave		0.0380				14.7		20.0			
Acrylonitrile	0.1414 0.1448	0.1331 0.1843	0.1893 +++++	0.1631	0.1559	Ave		0.1589				13.5		20.0			
trans-1,2-Dichloroethene	0.3330 0.3645	0.3284 +++++	0.4594 +++++	0.4201	0.4101	Ave		0.3859			0.1000	13.6		20.0			
Methyl tert-butyl ether	0.7426 0.8255	0.7777 1.0920	0.9611 0.8329	0.9443	0.9124	Ave		0.8861			0.1000	12.9		20.0			
Hexane	+++++ 0.3965	0.3424 0.5392	0.4821 0.4558	0.3818	0.3948	Ave		0.4275				15.9		20.0			
1,1-Dichloroethane	0.3935 0.4613	0.4643 0.6142	0.5845 0.5312	0.5344	0.5314	Ave		0.5143			0.2000	13.9		20.0			
Vinyl acetate	+++++ 0.6655	0.5617 0.8869	0.7971 0.8155	0.6834	0.6620	Ave		0.7246				15.5		20.0			
2,2-Dichloropropane	0.3080 0.3323	0.3239 0.3895	0.3371 +++++	0.3874	0.3904	Ave		0.3526				10.0		20.0			
cis-1,2-Dichloroethene	0.3372 0.3363	0.3440 0.3862	0.3406 +++++	0.3894	0.3856	Ave		0.3599			0.1000	7.1		20.0			
2-Butanone	0.0606 0.0641	0.0495 0.0720	0.0609 +++++	0.0687	0.0660	Ave		0.0631			0.0100	11.5		20.0			
Bromochloromethane	0.2767 0.2940	0.2765 0.2741	0.3072 0.2262	0.3458	0.3405	Ave		0.2926				13.3		20.0			
Tetrahydrofuran	0.1824 0.1651	0.1442 0.1424	0.1797 0.1198	0.1690	0.1865	Ave		0.1611				14.6		20.0			
Chloroform	0.4849 0.5027	0.4932 0.4996	0.5081 0.4275	0.5601	0.5977	Ave		0.5092			0.2000	10.0		20.0			
1,1,1-Trichloroethane	0.3875 0.4270	0.3654 0.4205	0.3958 0.3615	0.3990	0.4730	Ave		0.4037			0.1000	9.0		20.0			
Cyclohexane	0.4846 0.5068	0.4997 0.4888	0.4787 0.4071	0.4338	0.5234	Ave		0.4779			0.1000	8.1		20.0			
1,1-Dichloropropene	0.4001 0.4499	0.3812 0.4152	0.4161 0.3569	0.3796	0.4876	Ave		0.4108				10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.2846 0.3536	0.3119 0.3516	0.3143 0.3065	0.3201	0.3879	Ave		0.3288			0.1000	10.1		20.0			
Isobutyl alcohol	0.0172 0.0179	0.0155 0.0146	0.0187 0.0123	0.0155	0.0174	Ave		0.0161				12.9		20.0			
Benzene	1.2306 1.2707	1.2406 1.1849	1.2643 1.0246	1.1853	1.4211	Ave		1.2278			0.5000	9.0		20.0			
1,2-Dichloroethane	0.4123 0.4133	0.3884 0.3951	0.3965 0.3400	0.3960	0.4497	Ave		0.3989			0.1000	7.7		20.0			
n-Heptane	+++++ 0.2125	0.8760 0.1889	0.3267 0.2082	0.2164	0.1882	Lin1	0.6463	0.1871				16.0			0.9910		0.9900
Trichloroethene	0.2499 0.2624	0.2675 0.2982	0.2855 0.2836	0.2842	0.2896	Ave		0.2776			0.1500	5.8		20.0			
Methylcyclohexane	0.4902 0.4469	0.5070 0.5110	0.5094 0.5191	0.4459	0.4587	Ave		0.4860			0.1000	6.3		20.0			
1,2-Dichloropropane	0.2744 0.2396	0.2459 0.2704	0.2867 0.2874	0.2595	0.2573	Ave		0.2651			0.1000	6.7		20.0			
Dibromomethane	0.1895 0.1728	0.1568 0.2250	0.1821 0.1794	0.2106	0.1896	Ave		0.1882				11.4		20.0			
1,4-Dioxane	+++++ 0.0031	+++++ 0.0038	0.0030 0.0033	0.0043	0.0032	Ave		0.0035				14.7		20.0			
Bromodichloromethane	0.3228 0.3084	0.2546 0.3976	0.3199 0.3440	0.3789	0.3236	Ave		0.3312			0.1500	13.3		20.0			
2-Chloroethyl vinyl ether	0.1829 0.1783	0.1421 0.2594	0.2002 0.2185	0.2316	0.1844	Ave		0.1997				18.2		20.0			
cis-1,3-Dichloropropene	0.3945 0.3870	0.3031 0.5372	0.4096 0.4609	0.4701	0.3950	Ave		0.4197			0.1500	16.6		20.0			
4-Methyl-2-pentanone	0.4354 0.3706	0.3274 0.4917	0.4703 0.4482	0.5361	0.3932	Ave		0.4341			0.0500	15.7		20.0			
Toluene	1.8532 1.3460	1.5321 1.8337	1.6256 1.8105	1.9267	1.3466	Ave		1.6593			0.4000	14.0		20.0			
trans-1,3-Dichloropropene	0.5866 0.4654	0.4692 0.6407	0.5203 0.6635	0.5106	0.4452	Ave		0.5377			0.1000	15.5		20.0			
Ethyl methacrylate	0.5372 0.4804	0.4744 0.6569	0.5628 0.6526	0.5119	0.4617	Ave		0.5422				14.2		20.0			
1,1,2-Trichloroethane	0.3488 0.2740	0.2971 0.3762	0.3194 0.3628	0.3084	0.3128	Ave		0.3249			0.1000	10.7		20.0			
Tetrachloroethene	0.4672 0.3443	0.3797 0.4470	0.3653 0.4319	0.3757	0.3653	Ave		0.3971			0.1500	11.3		20.0			
1,3-Dichloropropane	0.6006 0.5055	0.6082 0.6659	0.6094 0.7069	0.5690	0.6114	Ave		0.6096				9.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	+++++ 0.3462	0.3677 0.5188	0.4753 0.4590	0.4043	0.4737	Ave		0.4350			0.0500	14.6		20.0			
Dibromochloromethane	0.2607 0.3295	0.3070 0.3727	0.2990 0.3686	0.3108	0.3066	Ave		0.3194				11.6		20.0			
1,2-Dibromoethane	0.2959 0.3490	0.3468 0.3446	0.3234 0.3756	0.3251	0.3269	Ave		0.3359				7.0		20.0			
Chlorobenzene	0.9601 0.9982	0.9577 0.9856	0.9970 0.9625	0.9439	0.9561	Ave		0.9701			0.3000	2.1		20.0			
1,1,1,2-Tetrachloroethane	0.2861 0.3451	0.3082 0.3607	0.3246 0.3482	0.3416	0.3313	Ave		0.3307				7.3		20.0			
Ethylbenzene	0.4726 0.5416	0.5415 0.5535	0.5513 0.5455	0.5158	0.5401	Ave		0.5327				5.0		20.0			
m-Xylene & p-Xylene	0.5474 0.7020	0.6317 0.6953	0.6913 0.6808	0.6540	0.6759	Ave		0.6598				7.7		20.0			
o-Xylene	0.6144 0.6625	0.7873 0.6809	0.6754 0.6788	0.6652	0.6714	Ave		0.6795				7.1		20.0			
Styrene	0.8975 1.1025	1.2328 1.1300	1.0808 1.1354	1.0526	1.0955	Ave		1.0909			0.3000	8.7		20.0			
Bromoform	0.1816 0.2215	0.2061 0.2498	0.2056 0.2524	0.2241	0.2201	Ave		0.2201			0.1000	10.6		20.0			
Isopropylbenzene	1.6277 1.6644	1.8462 1.7216	1.7216 1.6924	1.6505	1.6999	Ave		1.7030			0.1000	3.9		20.0			
1,1,2,2-Tetrachloroethane	0.9256 1.0911	1.0665 0.8972	1.0273 1.1690	0.8375	0.9849	Ave		0.9999			0.3000	11.0		20.0			
Bromobenzene	0.7288 0.8081	0.8447 0.7401	0.7929 0.9282	0.6798	0.7304	Ave		0.7816				10.1		20.0			
1,2,3-Trichloropropane	0.3410 0.3591	0.3863 0.3119	0.3528 0.3774	0.2961	0.3349	Ave		0.3449				8.9		20.0			
trans-1,4-Dichloro-2-butene	0.2625 0.3469	0.2454 0.2884	0.3133 0.3529	0.2288	0.3033	Ave		0.2927				15.5		20.0			
n-Propylbenzene	0.7726 0.9340	0.8088 0.8290	0.8978 1.0055	0.7202	0.8369	Ave		0.8506				10.8		20.0			
2-Chlorotoluene	0.7922 0.7897	0.7423 0.6969	0.7641 0.8746	0.6279	0.7208	Ave		0.7510				9.8		20.0			
1,3,5-Trimethylbenzene	2.0962 2.7331	2.3810 2.3653	2.6027 2.9725	2.4185	2.4938	Ave		2.5079				10.5		20.0			
4-Chlorotoluene	0.7751 0.7961	0.7602 0.7135	0.7756 0.8974	0.7258	0.7198	Ave		0.7704				7.7		20.0			
tert-Butylbenzene	2.0911 2.3706	2.1569 2.0531	2.1523 2.5782	2.0837	2.0767	Ave		2.1953				8.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.6633 2.7829	2.4414 2.3659	2.6580 3.0077	2.6472	2.5064	Ave		2.6341				7.7		20.0			
sec-Butylbenzene	3.2857 3.3989	3.1011 3.2856	3.1609 3.2757	2.9618	3.0028	Ave		3.1841				4.8		20.0			
1,3-Dichlorobenzene	1.5139 1.5056	1.5517 1.4537	1.4912 1.4993	1.4677	1.3852	Ave		1.4835			0.6000	3.3		20.0			
p-Isopropyltoluene	2.3317 2.8989	2.5270 2.8114	2.7243 2.8068	2.5023	2.5803	Ave		2.6478				7.3		20.0			
1,4-Dichlorobenzene	1.7142 1.5352	1.6156 1.5115	1.5056 1.5195	1.4720	1.4203	Ave		1.5367			0.5000	5.9		20.0			
n-Butylbenzene	1.8951 2.4602	2.1133 2.4171	2.2733 2.3109	2.0729	2.2184	Ave		2.2202				8.4		20.0			
1,2-Dichlorobenzene	1.5372 1.4905	1.4933 1.4585	1.4947 1.4453	1.4331	1.4279	Ave		1.4726			0.4000	2.6		20.0			
1,2-Dibromo-3-Chloropropane	0.2010 0.2669	0.2345 0.2367	0.2385 0.2646	0.2131	0.2135	Ave		0.2336			0.0500	10.2		20.0			
1,2,4-Trichlorobenzene	0.9887 0.8713	0.8099 0.7417	0.8058 0.8636	0.7082	0.6997	Ave		0.8111			0.2000	12.0		20.0			
Hexachlorobutadiene	0.4276 0.3159	0.3357 0.2828	0.2887 0.3236	0.2492	0.2598	Ave		0.3104				18.1		20.0			
Naphthalene	2.7351 3.0748	2.6527 2.5138	2.8063 2.9241	2.3872	2.3949	Ave		2.6861				9.2		20.0			
1,2,3-Trichlorobenzene	0.8366 0.8012	0.7261 0.6950	0.7707 0.8318	0.6662	0.6501	Ave		0.7472				9.8		20.0			
Dibromofluoromethane (Surr)	+++++ 0.2687	+++++ 0.2632	0.2565 0.2279	0.2654	0.3110	Ave		0.2655				10.1		20.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3299	+++++ 0.3169	0.3337 0.2741	0.3228	0.3720	Ave		0.3249				9.7		20.0			
Toluene-d8 (Surr)	+++++ 1.1036	+++++ 1.5400	1.3670 1.5066	1.4506	1.1486	Ave		1.3527				13.7		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.4348	+++++ 0.4579	0.4861 0.5021	0.4378	0.4603	Ave		0.4632				5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442963/9	U1279113.D
Level 2	STD8260 240-442963/10	U1279114.D
Level 3	STD8260 240-442963/11	U1279115.D
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Level 7	STD8260 240-442963/15	U1279119.D
Level 8	STD8260 240-442963/16	U1279120.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6491 692065	12858 952192	95890 1447911	151666	325891	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Chloromethane	FB	Ave	+++++ 1048531	22907 1437896	180045 2259568	233672	562073	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Butadiene	FB	Ave	9181 740602	16845 988134	124092 1636623	159384	390394	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Vinyl chloride	FB	Ave	8683 763156	17064 1049031	121481 1624267	171618	406302	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromomethane	FB	Ave	5457 502951	11010 779653	72628 1045526	127041	265909	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Chloroethane	FB	Ave	5911 555402	11645 898507	80121 1187806	136173	285493	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Dichlorofluoromethane	FB	Ave	12695 1157160	26597 1769403	157289 2362624	288627	626381	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Trichlorofluoromethane	FB	Ave	10566 908548	22183 1377516	111171 1880748	210999	455578	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethyl ether	FB	Ave	6641 663810	14820 908584	82827 1303305	157156	309400	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Acrolein	FB	Ave	3163 265086	6778 397800	41496 590629	56998	118799	2.50 200	5.00 300	25.0 400	50.0	100
1,1-Dichloroethene	FB	Ave	8937 829316	21022 1279374	120487 1718675	183544	390469	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	4626 518516	11895 807578	66947 1072209	105296	233909	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Acetone	FB	Ave	+++++ 503096	16108 661546	81521 896587	119029	224375	+++++ 80.0	2.00 120	10.0 160	20.0	40.0
Iodomethane	FB	Ave	8607 864362	19223 1310816	114665 1766617	207558	421954	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Carbon disulfide	FB	Ave	20354 1654881	37146 2555816	245305 3433316	378954	789675	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
3-Chloro-1-propene	FB	Ave	10788 902635	20839 1389182	154691 1869760	205590	431804	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Methyl acetate	FB	Ave	14733 1278569	28394 1839288	210795 2463274	286458	577598	1.00 80.0	2.00 120	10.0 160	20.0	40.0
Methylene Chloride	FB	Ave	8975 737052	17390 1116320	118801 1496408	176439	354472	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
tert-Butyl alcohol	FB	Ave	+++++ 844343	17528 1032059	125121 1383065	191199	349742	+++++ 400	10.0 600	50.0 800	100	200
Acrylonitrile	FB	Ave	38417 3202437	67455 5396310	504697 +++++	723158	1450393	5.00 400	10.0 600	50.0 +++++	100	200
trans-1,2-Dichloroethene	FB	Ave	9045 806228	16647 +++++	122478 +++++	186220	381398	0.500 40.0	1.00 +++++	5.00 +++++	10.0	20.0
Methyl tert-butyl ether	FB	Ave	20171 1825802	39426 3196991	256224 3813820	418565	848635	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Hexane	FB	Ave	+++++ 877095	17358 1578677	128512 2087141	169215	367216	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1-Dichloroethane	FB	Ave	10688 1020403	23537 1798158	155829 2432150	236866	494235	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 1471981	28476 2596721	212513 3734074	302914	615701	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2,2-Dichloropropane	FB	Ave	8366 734903	16418 1140347	89862 +++++	171711	363126	0.500 40.0	1.00 60.0	5.00 +++++	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	9160 743747	17440 1130637	90791 +++++	172589	358669	0.500 40.0	1.00 60.0	5.00 +++++	10.0	20.0
2-Butanone	FB	Ave	3292 283584	5020 421345	32487 +++++	60927	122791	1.00 80.0	2.00 120	10.0 +++++	20.0	40.0
Bromochloromethane	FB	Ave	7517 650336	14016 802370	81886 1035588	153287	316652	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Tetrahydrofuran	FB	Ave	9909 730197	14616 833693	95835 1096878	149777	347004	1.00 80.0	2.00 120	10.0 160	20.0	40.0
Chloroform	FB	Ave	13172 1111892	25004 1462582	135443 1957485	248247	555952	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	10524 944576	18522 1231118	105527 1655131	176862	439960	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Cyclohexane	FB	Ave	13162 1121049	25331 1431075	127620 1863865	192287	486792	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1-Dichloropropene	FB	Ave	10867 995105	19325 1215722	110916 1634304	168265	453544	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Carbon tetrachloride	FB	Ave	7731 782108	15810 1029542	83787 1403246	141890	360797	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Isobutyl alcohol	FB	Ave	11663 989777	19594 1065136	124596 1406970	172245	405480	12.5 1000	25.0 1500	125 2000	250	500

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	33425 2810699	62890 3469151	337044 4691183	525396	1321740	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichloroethane	FB	Ave	11198 914197	19689 1156634	105694 1556959	175519	418240	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
n-Heptane	FB	Lin1	+++++ 470133	44411 552977	87098 953448	95900	175083	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Trichloroethene	FB	Ave	6788 580360	13562 873131	76118 1298374	125955	269336	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Methylcyclohexane	FB	Ave	13314 988563	25703 1496196	135793 2376794	197666	426646	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichloropropane	FB	Ave	7452 529883	12467 791730	76423 1315984	115005	239320	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Dibromomethane	FB	Ave	5148 382258	7950 658845	48536 821478	93337	176342	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,4-Dioxane	FB	Ave	+++++ 136471	+++++ 224221	15971 304656	38163	59715	+++++ 800	+++++ 1200	100 1600	200	400
Bromodichloromethane	FB	Ave	8768 682191	12908 1164000	85277 1575297	167964	300932	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	9938 788544	14412 1519041	106727 2001081	205324	343008	1.00 80.0	2.00 120	10.0 160	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	10714 856087	15367 1572803	109191 2110296	208362	367344	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
4-Methyl-2-pentanone	FB	Ave	23654 1639242	33198 2878867	250773 4104472	475232	731356	1.00 80.0	2.00 120	10.0 160	20.0	40.0
Toluene	CBNZ d5	Ave	29652 2206110	46282 3857470	302953 5188385	609655	1007024	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	9385 762783	14175 1347764	96966 1901312	161548	332918	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	8596 787358	14331 1381887	104880 1870176	161989	345274	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	5581 449059	8974 791429	59524 1039659	97580	233957	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	7475 564371	11469 940315	68082 1237632	118877	273224	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	9610 828517	18373 1400884	113574 2025809	180029	457272	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Hexanone	CBNZ d5	Ave	+++++ 1134947	22216 2182766	177166 2630745	255826	708445	+++++ 80.0	2.00 120	10.0 160	20.0	40.0
Dibromochloromethane	CBNZ d5	Ave	4171 540110	9274 784117	55714 1056327	98356	229325	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	4735 572080	10477 724976	60273 1076276	102871	244506	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	15362 1635971	28930 2073291	185806 2758216	298670	715039	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4578 565680	9310 758714	60497 997800	108087	247781	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	7562 887653	16358 1164276	102746 1563228	163196	403913	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	8759 1150536	19083 1462696	128823 1951120	206929	505494	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
o-Xylene	CBNZ d5	Ave	9831 1085881	23782 1432342	125874 1945281	210472	502115	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Styrene	CBNZ d5	Ave	14361 1807037	37239 2377113	201429 3253865	333048	819248	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromoform	CBNZ d5	Ave	2906 363030	6225 525428	38309 723239	70911	164608	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Isopropylbenzene	CBNZ d5	Ave	26044 2727885	55771 3621536	320834 4849848	522254	1271237	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7751 843951	19529 1087689	98841 1682800	164980	394582	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromobenzene	DCBd 4	Ave	6103 625073	15468 897214	76292 1336195	133920	292641	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	2856 277742	7073 378143	33941 543257	58331	134177	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2198 268293	4494 349603	30147 508069	45074	121536	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
n-Propylbenzene	DCBd 4	Ave	6470 722462	14811 1004987	86386 1447539	141874	335308	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	6634 610825	13592 844827	73516 1259021	123687	288795	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	17554 2114062	43601 2867428	250416 4279171	476426	999122	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
4-Chlorotoluene	DCBd 4	Ave	6491 615770	13920 864927	74622 1291849	142976	288403	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	17511 1833625	39497 2488936	207081 3711556	410479	832037	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	22303 2152543	44707 2868200	255743 4329767	521486	1004174	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	27515 2628984	56787 3983089	304124 4715586	583446	1203086	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	12678 1164577	28415 1762350	143474 2158288	289123	554995	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	19526 2242296	46274 3408231	262116 4040650	492942	1033800	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	14355 1187495	29584 1832355	144861 2187419	289977	569022	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
n-Butylbenzene	DCBd 4	Ave	15870 1902978	38698 2930188	218725 3326661	408355	888801	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	12873 1152915	27344 1768141	143813 2080580	282319	572071	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1683 206406	4295 286949	22950 380957	41982	85539	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	8280 673976	14830 899204	77534 1243231	139512	280319	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	3581 244373	6148 342826	27773 465852	49088	104077	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Naphthalene	DCBd 4	Ave	22904 2378356	48575 3047517	270015 4209448	470264	959515	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	7006 619750	13296 842599	74152 1197429	131236	260445	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 594419	+++++ 770621	68389 1043625	117634	289228	+++++ 40.0	+++++ 60.0	5.00 80.0	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 729798	+++++ 927672	88950 1255009	143083	345986	+++++ 40.0	+++++ 60.0	5.00 80.0	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 1808749	+++++ 3239682	254761 4317396	458994	858996	+++++ 40.0	+++++ 60.0	5.00 80.0	10.0	20.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 712692	+++++ 963194	90585 1438809	138527	344224	+++++ 40.0	+++++ 60.0	5.00 80.0	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442963/9	U1279113.D
Level 2	STD8260 240-442963/10	U1279114.D
Level 3	STD8260 240-442963/11	U1279115.D
Level 4	STD8260 240-442963/12	U1279116.D
Level 5	ICIS 240-442963/13	U1279117.D
Level 6	STD8260 240-442963/14	U1279118.D
Level 7	STD8260 240-442963/15	U1279119.D
Level 8	STD8260 240-442963/16	U1279120.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
n-Heptane	+++++	22.8						50				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2218 0.2518	0.2214 0.2696	0.2659	0.2384	0.2602	Ave		0.2470			0.1000	8.2		20.0			
Chloromethane	0.3783 0.2945	0.3595 0.2731	0.3151	0.2876	0.2995	Ave		0.3154			0.1000	12.4		20.0			
Vinyl chloride	0.3441 0.3421	0.3320 0.3231	0.3537	0.3285	0.3450	Ave		0.3384			0.1000	3.2		20.0			
Butadiene	0.2796 0.3092	0.2936 0.3004	0.3107	0.2890	0.3054	Ave		0.2983				3.8		20.0			
Bromomethane	0.2541 +++++	0.2217 +++++	0.2020	0.1954	0.2132	Ave		0.2173			0.0500	10.6		20.0			
Chloroethane	0.1655 0.1853	0.1779 0.2067	0.1759	0.1659	0.1841	Ave		0.1802			0.0500	7.8		20.0			
Dichlorofluoromethane	0.3846 0.3845	0.4010 0.3725	0.3846	0.3676	0.3876	Ave		0.3832				2.8		20.0			
Trichlorofluoromethane	0.2930 0.3557	0.3059 0.3590	0.3637	0.3336	0.3592	Ave		0.3386			0.1000	8.5		20.0			
Ethyl ether	0.1631 0.1632	0.1369 0.1628	0.1629	0.1573	0.1706	Ave		0.1595				6.7		20.0			
Acrolein	+++++ 0.0124	0.0103 +++++	0.0120	0.0115	0.0135	Ave		0.0119				10.0		20.0			
1,1-Dichloroethene	0.2222 0.2073	0.1865 0.2038	0.2049	0.2001	0.2092	Ave		0.2049			0.1000	5.2		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1208 0.1694	0.1413 0.1822	0.1752	0.1667	0.1746	Ave		0.1615			0.0500	13.7		20.0			
Acetone	0.0210 0.0158	0.0212 0.0170	0.0175	0.0150	0.0174	Ave		0.0178			0.0100	13.4		20.0			
Iodomethane	0.3678 0.3170	0.3606 0.2758	0.2905	0.2939	0.3082	Ave		0.3163				11.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.6838 0.6546	0.6764 0.6419	0.6598	0.6452	0.6643	Ave		0.6609			0.1000	2.3		20.0			
Methyl acetate	0.1087 0.1222	0.1221 0.1326	0.1311	0.1148	0.1351	Ave		0.1238			0.1000	7.9		20.0			
3-Chloro-1-propene	0.2633 0.2720	0.2858 0.2612	0.2643	0.2604	0.2759	Ave		0.2690				3.5		20.0			
Methylene Chloride	0.2860 0.2270	0.2842 0.2199	0.2333	0.2192	0.2334	Ave		0.2433			0.1000	12.0		20.0			
tert-Butyl alcohol	+++++ 0.0153	0.0147 0.0168	0.0164	0.0141	0.0174	Ave		0.0158				8.1		20.0			
Acrylonitrile	0.0656 0.0726	0.0729 0.0766	0.0760	0.0696	0.0793	Ave		0.0732				6.3		20.0			
Methyl tert-butyl ether	0.4760 0.6053	0.4902 0.6075	0.5877	0.5678	0.6331	Ave		0.5668			0.1000	10.7		20.0			
trans-1,2-Dichloroethene	0.2384 0.2423	0.2596 0.2355	0.2429	0.2345	0.2444	Ave		0.2425			0.1000	3.5		20.0			
Hexane	+++++ 0.2745	0.1945 +++++	0.2886	0.2700	0.2962	Ave		0.2648				15.4		20.0			
Vinyl acetate	0.1774 0.3207	0.2093 0.3398	0.2710	0.2875	0.3366	Lin1	-0.111	0.3282				12.8			0.9970		0.9900
1,1-Dichloroethane	0.3589 0.3855	0.3749 0.3697	0.3804	0.3678	0.3882	Ave		0.3751			0.2000	2.8		20.0			
2-Butanone	+++++ 0.0233	0.0122 0.0251	0.0234	0.0204	0.0250	Lin1	-0.028	0.0244			0.0100	8.4			0.9970		0.9900
cis-1,2-Dichloroethene	0.2521 0.2623	0.2643 0.2545	0.2562	0.2551	0.2673	Ave		0.2588			0.1000	2.2		20.0			
2,2-Dichloropropane	0.2918 0.3402	0.2993 0.3392	0.3205	0.3204	0.3420	Ave		0.3219				6.3		20.0			
Bromochloromethane	0.1180 0.1235	0.1223 0.1158	0.1274	0.1225	0.1265	Ave		0.1223				3.4		20.0			
Tetrahydrofuran	0.0351 0.0470	0.0489 0.0517	0.0490	0.0450	0.0525	Ave		0.0470				12.4		20.0			
Chloroform	0.3746 0.3883	0.4063 0.3741	0.3899	0.3805	0.3963	Ave		0.3871			0.2000	3.0		20.0			
1,1,1-Trichloroethane	0.3237 0.3547	0.3213 0.3428	0.3533	0.3400	0.3573	Ave		0.3419			0.1000	4.3		20.0			
Cyclohexane	0.2456 0.3363	0.2801 0.3663	0.3404	0.3252	0.3429	Ave		0.3195			0.1000	13.1		20.0			
1,1-Dichloropropene	0.2701 0.3241	0.2662 0.3191	0.3132	0.3070	0.3240	Ave		0.3034				8.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.2792 0.3197	0.2877 0.3130	0.3080	0.2981	0.3204	Ave		0.3037			0.1000	5.3		20.0			
Isobutyl alcohol	0.0028 0.0046	0.0033 0.0052	0.0047	0.0042	0.0052	Lin1	-0.036	0.0049				10.1			0.9950		0.9900
Benzene	0.8958 0.9477	0.8544 0.9278	0.9308	0.9089	0.9649	Ave		0.9186			0.5000	4.0		20.0			
1,2-Dichloroethane	0.2645 0.2824	0.2802 0.2758	0.2835	0.2723	0.2917	Ave		0.2786			0.1000	3.1		20.0			
n-Heptane	1.2696 0.1520	0.6897 +++++	0.2114	0.1709	0.1691	Lin1	0.5569	0.1475				7.2			0.9980		0.9900
Trichloroethene	0.2818 0.2788	0.2559 0.2695	0.2749	0.2670	0.2825	Ave		0.2729			0.1500	3.5		20.0			
Methylcyclohexane	+++++ 0.3870	0.2788 0.4357	0.3872	0.3702	0.3992	Ave		0.3764			0.1000	14.0		20.0			
1,2-Dichloropropane	0.1984 0.2181	0.1841 0.2122	0.2140	0.2101	0.2235	Ave		0.2086			0.1000	6.4		20.0			
1,4-Dioxane	+++++ 0.0025	0.0021 0.0026	0.0026	0.0022	0.0028	Ave		0.0025				10.7		20.0			
Dibromomethane	0.1250 0.1340	0.1361 0.1285	0.1306	0.1289	0.1378	Ave		0.1316				3.5		20.0			
Bromodichloromethane	0.2580 0.2908	0.2694 0.2803	0.2760	0.2713	0.2929	Ave		0.2770			0.1500	4.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1378	0.0989 0.1389	0.1289	0.1256	0.1440	Ave		0.1290				12.6		20.0			
cis-1,3-Dichloropropene	0.2784 0.3700	0.3087 0.3601	0.3444	0.3414	0.3763	Ave		0.3399			0.1500	10.3		20.0			
4-Methyl-2-pentanone	+++++ 0.1440	0.1098 0.1530	0.1421	0.1345	0.1594	Ave		0.1404			0.0500	12.4		20.0			
Toluene	1.1351 1.3150	1.1636 1.3035	1.2726	1.2619	1.3268	Ave		1.2541			0.4000	6.0		20.0			
trans-1,3-Dichloropropene	0.3164 0.4350	0.3325 0.4276	0.3934	0.3933	0.4384	Ave		0.3909			0.1000	12.6		20.0			
Ethyl methacrylate	+++++ 0.3165	0.2139 0.3254	0.2801	0.2912	0.3320	Ave		0.2932				14.9		20.0			
1,1,2-Trichloroethane	0.1902 0.2536	0.2320 0.2512	0.2457	0.2429	0.2602	Ave		0.2394			0.1000	9.8		20.0			
Tetrachloroethene	0.2550 0.3014	0.2639 0.2975	0.2761	0.2777	0.2985	Ave		0.2814			0.1500	6.5		20.0			
1,3-Dichloropropane	0.3205 0.4488	0.3791 0.4435	0.4273	0.4227	0.4594	Ave		0.4145				11.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	+++++ 0.1261	0.0995 0.1358	0.1277	0.1193	0.1398	Ave		0.1247			0.0500	11.5		20.0			
Dibromochloromethane	0.2163 0.2991	0.2263 0.2949	0.2634	0.2693	0.2974	Ave		0.2667				12.8		20.0			
1,2-Dibromoethane	0.1998 0.2653	0.2105 0.2614	0.2519	0.2508	0.2731	Ave		0.2447				11.5		20.0			
Chlorobenzene	0.8285 0.8839	0.8297 0.8689	0.8631	0.8603	0.8857	Ave		0.8600			0.3000	2.7		20.0			
1,1,1,2-Tetrachloroethane	0.2131 0.3217	0.2432 0.3162	0.2878	0.2927	0.3179	Ave		0.2847				14.6		20.0			
Ethylbenzene	0.4234 0.4904	0.4369 0.4898	0.4717	0.4677	0.4923	Ave		0.4675				5.9		20.0			
m-Xylene & p-Xylene	0.5160 0.6081	0.5232 0.6001	0.5775	0.5819	0.6124	Ave		0.5742				6.9		20.0			
o-Xylene	0.4893 0.5895	0.5046 0.5671	0.5484	0.5608	0.5801	Ave		0.5485				6.9		20.0			
Styrene	0.7552 0.9871	0.7834 0.9658	0.9143	0.9325	0.9848	Ave		0.9033			0.3000	10.6		20.0			
Bromoform	+++++ 0.2009	0.1488 0.2030	0.1641	0.1713	0.2026	Ave		0.1818			0.1000	12.9		20.0			
Isopropylbenzene	1.2134 1.5091	1.2019 1.4875	1.4375	1.4522	1.5016	Ave		1.4004			0.1000	9.6		20.0			
1,1,2,2-Tetrachloroethane	0.4426 0.5078	0.4953 0.5189	0.5386	0.5154	0.5510	Ave		0.5099			0.3000	6.9		20.0			
Bromobenzene	0.6096 0.6743	0.6562 0.6684	0.6697	0.6634	0.6961	Ave		0.6625				4.0		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1475	0.1253 0.1531	0.1508	0.1420	0.1566	Ave		0.1459				7.7		20.0			
1,2,3-Trichloropropane	0.1561 0.1774	0.1776 0.1819	0.1958	0.1798	0.1932	Ave		0.1803				7.2		20.0			
n-Propylbenzene	0.6132 0.7743	0.7088 0.7636	0.7846	0.7837	0.7970	Ave		0.7465				8.8		20.0			
2-Chlorotoluene	0.5429 0.6483	0.6014 0.6309	0.6689	0.6480	0.6652	Ave		0.6294				7.0		20.0			
1,3,5-Trimethylbenzene	1.6130 2.1318	1.8371 2.0970	2.1585	2.1234	2.1789	Ave		2.0200				10.6		20.0			
4-Chlorotoluene	0.5490 0.6702	0.6204 0.6545	0.6858	0.6754	0.6992	Ave		0.6506				7.9		20.0			
tert-Butylbenzene	1.5859 1.9134	1.7640 1.8932	1.9285	1.9144	1.9629	Ave		1.8518				7.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	1.5750 2.1356	1.7246 2.0831	2.1337	2.1180	2.1609	Ave		1.9901				11.9		20.0			
sec-Butylbenzene	2.1202 2.7901	2.4857 2.7520	2.8239	2.7829	2.8586	Ave		2.6591				10.1		20.0			
1,3-Dichlorobenzene	1.2312 1.3012	1.2672 1.2554	1.2539	1.2588	1.3216	Ave		1.2699			0.6000	2.4		20.0			
p-Isopropyltoluene	1.7102 2.4835	2.0522 2.4489	2.4301	2.4445	2.5072	Ave		2.2966				13.1		20.0			
1,4-Dichlorobenzene	1.2723 1.2924	1.2688 1.2655	1.2913	1.2577	1.3209	Ave		1.2813			0.5000	1.7		20.0			
n-Butylbenzene	1.4986 2.0989	1.7422 2.0828	2.0752	2.0435	2.1322	Ave		1.9534				12.3		20.0			
1,2-Dichlorobenzene	1.0596 1.1963	1.2020 1.1629	1.1881	1.1743	1.2368	Ave		1.1743			0.4000	4.7		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1203	0.0922 0.1260	0.1182	0.1080	0.1301	Ave		0.1158			0.0500	11.9		20.0			
1,2,4-Trichlorobenzene	0.5767 0.7300	0.6067 0.7181	0.6566	0.6719	0.7296	Ave		0.6699			0.2000	9.1		20.0			
Hexachlorobutadiene	0.2694 0.3640	0.3392 0.3663	0.3312	0.3391	0.3729	Ave		0.3403				10.3		20.0			
Naphthalene	1.2126 1.5989	1.3344 1.6436	1.5323	1.4810	1.6951	Ave		1.4997				11.5		20.0			
1,2,3-Trichlorobenzene	0.5312 0.6177	0.6018 0.6193	0.6026	0.5727	0.6527	Ave		0.5997				6.4		20.0			
Dibromofluoromethane (Surr)	0.2007 0.2242	0.2218 0.2164	0.2194	0.2146	0.2289	Ave		0.2180				4.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2375 0.2328	0.2484 0.2314	0.2386	0.2217	0.2415	Ave		0.2360				3.6		20.0			
Toluene-d8 (Surr)	0.9462 1.1282	1.0139 1.1330	1.0887	1.0746	1.1426	Ave		1.0753				6.7		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.3956	0.3765 0.3894	0.3880	0.3796	0.3997	Ave		0.3881				2.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4665 745131	9486 1096048	126306	227765	512634	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	7957 871361	15405 1110343	149665	274711	590076	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	7238 1012197	14226 1313554	168014	313862	679879	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	5881 914827	12580 1221080	147574	276064	601757	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	5345 +++++	9499 +++++	95953	186631	420133	0.500 +++++	1.00 +++++	10.0	20.0	40.0
Chloroethane	FB	Ave	3482 548317	7624 840147	83551	158483	362824	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	8090 1137799	17183 1514080	182674	351184	763828	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	6163 1052482	13107 1459454	172726	318731	707684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	3432 482766	5866 661598	77374	150301	336091	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	+++++ 182892	2199 +++++	28530	54891	133174	+++++ 300	5.00 +++++	50.0	100	200
1,1-Dichloroethene	FB	Ave	4675 613475	7991 828592	97332	191182	412233	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2542 501383	6055 740610	83204	159259	344047	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Ave	885 93482	1814 137949	16639	28725	68698	1.00 120	2.00 160	20.0	40.0	80.0
Iodomethane	FB	Ave	7737 937946	15454 1121127	137997	280739	607259	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	14385 1937057	28986 2609436	313390	616385	1308981	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	4573 723056	10468 1078188	124579	219369	532525	1.00 120	2.00 160	20.0	40.0	80.0
3-Chloro-1-propene	FB	Ave	5538 804942	12249 1061610	125526	248783	543714	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylene Chloride	FB	Ave	6017 671839	12177 893994	110800	209370	459897	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butyl alcohol	FB	Ave	+++++ 452953	6282 684907	77688	135048	341990	+++++ 600	10.0 800	100	200	400
Acrylonitrile	FB	Ave	13809 2146830	31232 3114778	360846	664569	1561999	5.00 600	10.0 800	100	200	400
Methyl tert-butyl ether	FB	Ave	10014 1791186	21006 2469446	279149	542453	1247519	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	5014 717027	11126 957447	115378	224002	481658	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	+++++ 812220	8335 +++++	137081	257886	583618	+++++ 60.0	1.00 +++++	10.0	20.0	40.0
Vinyl acetate	FB	Lin1	3731 948886	8968 1381139	128725	274666	663154	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	7550 1140699	16067 1502970	180676	351386	764973	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone	FB	Lin1	+++++ 137692	1042 203878	22232	38988	98627	+++++ 120	2.00 160	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	5303 776002	11326 1034403	121706	243716	526609	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	6138 1006523	12827 1379044	152244	306107	673786	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromochloromethane	FB	Ave	2482 365325	5242 470910	60499	117007	249202	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Ave	1478 278245	4187 419976	46517	85989	206722	1.00 120	2.00 160	20.0	40.0	80.0
Chloroform	FB	Ave	7880 1148977	17409 1520699	185173	363463	780869	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	6809 1049551	13769 1393442	167803	324837	704006	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	5166 995055	12004 1489074	161683	310680	675623	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	5681 958880	11408 1297043	148760	293279	638498	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5873 946104	12330 1272263	146275	284754	631395	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Lin1	1480 341332	3530 525070	55676	100513	254808	12.5 1500	25.0 2000	250	500	1000

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	18845 2804292	36613 3771486	442100	868256	1901286	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	5565 835597	12009 1121069	134627	260130	574817	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	26707 449823	29555 +++++	100398	163268	333099	0.500 60.0	1.00 +++++	10.0	20.0	40.0
Trichloroethene	FB	Ave	5929 825111	10964 1095743	130574	255094	556593	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	+++++ 1145090	11948 1771032	183908	353700	786565	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	4173 645329	7887 862746	101634	200726	440298	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 147449	1762 208939	24666	42478	109037	+++++ 1200	20.0 1600	200	400	800
Dibromomethane	FB	Ave	2630 396385	5834 522492	62006	123177	271437	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromodichloromethane	FB	Ave	5428 860357	11545 1139283	131089	259213	577147	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 815405	8476 1129127	122410	239979	567444	+++++ 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	5856 1094811	13227 1463938	163597	326122	741413	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone	FB	Ave	+++++ 851990	9406 1244054	134958	256926	628003	+++++ 120	2.00 160	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	19729 3011770	41109 4057355	479847	938059	2039743	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5499 996267	11747 1330925	148347	292377	673884	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 724838	7556 1012874	105621	216473	510420	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3305 580728	8198 781869	92657	180594	400018	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	4432 690225	9324 925879	104096	206410	458925	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	5570 1027994	13393 1380488	161106	314262	706289	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	+++++ 577473	7030 845199	96295	177407	429724	+++++ 120	2.00 160	20.0	40.0	80.0
Dibromochloromethane	CBNZ d5	Ave	3760 685086	7995 917799	99325	200173	457254	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromoethane	CBNZ d5	Ave	3472 607659	7438 813685	94969	186444	419853	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14399 2024322	29312 2704599	325429	639571	1361605	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3704 736691	8594 984172	108530	217609	488684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	7359 1123177	15435 1524597	177845	347713	756865	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	8968 1392681	18486 1868000	217767	432592	941488	0.500 60.0	1.00 80.0	10.0	20.0	40.0
o-Xylene	CBNZ d5	Ave	8505 1350111	17828 1765045	206785	416898	891801	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Styrene	CBNZ d5	Ave	13125 2260683	27678 3006004	344743	693212	1513984	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromoform	CBNZ d5	Ave	+++++ 460205	5256 631827	61865	127319	311415	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	21090 3456206	42462 4629878	542009	1079601	2308401	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4265 678721	9414 937618	110519	212748	478558	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromobenzene	DCBd 4	Ave	5874 901413	12472 1207707	137415	273875	604593	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 197195	2381 276670	30947	58600	136003	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	1504 237185	3375 328647	40174	74238	167810	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Propylbenzene	DCBd 4	Ave	5909 1035010	13473 1379627	160990	323520	692257	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	5232 866639	11432 1139934	137252	267505	577725	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	15543 2849609	34919 3788867	442911	876543	1892509	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	5290 895912	11792 1182465	140726	278802	607272	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butylbenzene	DCBd 4	Ave	15282 2557650	33529 3420590	395706	790282	1704932	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	15177 2854633	32781 3763780	437820	874333	1876870	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	20431 3729613	47246 4972313	579450	1148815	2482909	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	11864 1739274	24087 2268220	257296	519642	1147861	0.500 60.0	1.00 80.0	10.0	20.0	40.0
p-Isopropyltoluene	DCBd 4	Ave	16480 3319699	39007 4424579	498636	1009090	2177630	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	12260 1727570	24117 2286401	264974	519200	1147309	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	14441 2805692	33115 3763123	425819	843589	1851941	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	10211 1599122	22847 2101050	243791	484748	1074224	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 160845	1752 227651	24251	44593	112988	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5557 975744	11531 1297390	134730	277363	633734	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	2596 486539	6447 661758	67962	139998	323865	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	11685 2137279	25363 2969700	314418	611384	1472308	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5119 825636	11438 1119006	123648	236399	566895	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	4221 663483	9504 879528	104187	205047	451079	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	4996 688950	10645 940507	113309	211750	475834	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	16446 2583965	35823 3526711	410525	798835	1756542	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 905980	13303 1211964	146317	282170	614486	+++++ 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Vinyl acetate	21.6						50					
2-Butanone	+++++	7.4						50				
Isobutyl alcohol	14.7						50					
n-Heptane	5.5 +++++						50					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0260 0.0224	0.0265	0.0246	0.0232	0.0222	Ave		0.0241				7.6		20.0			
Diisopropyl ether	0.1490 0.1993	0.1554	0.1862	0.1892	0.1889	Ave		0.1780				11.6		20.0			
2-Chloro-1,3-butadiene	0.2405 0.3168	0.2679	0.3121	0.3084	0.2984	Ave		0.2907				10.4		20.0			
Ethyl-t-butyl ether (ETBE)	0.4301 0.5902	0.4583	0.5407	0.5581	0.5559	Ave		0.5222				12.1		20.0			
Ethyl acetate	0.1072 0.1611	0.1236	0.1437	0.1500	0.1519	Ave		0.1396				14.5		20.0			
Propionitrile	0.0225 0.0284	0.0267	0.0286	0.0288	0.0278	Ave		0.0271				8.8		20.0			
Methacrylonitrile	0.0866 0.1124	0.0889	0.1062	0.1066	0.1055	Ave		0.1010				10.5		20.0			
Isooctane	0.4089 0.6831	0.4887	0.6101	0.6519	0.6238	Ave		0.5777				18.4		20.0			
Tert-amyl-methyl ether (TAME)	0.4509 0.5900	0.4262	0.5222	0.5457	0.5544	Ave		0.5149				12.3		20.0			
n-Butanol	+++++ 0.0048	0.0022	0.0037	0.0040	0.0043	Lin1	-0.083	0.0046				14.6			0.9950		0.9900
Ethyl acrylate	0.1416 0.2306	0.1557	0.1891	0.2034	0.2108	Ave		0.1885				18.0		20.0			
Methyl methacrylate	0.0993 0.1473	0.1016	0.1253	0.1336	0.1370	Ave		0.1240				15.8		20.0			
2-Nitropropane	0.0294 0.0489	0.0320	0.0398	0.0423	0.0453	Ave		0.0396				19.1		20.0			
n-Butyl acetate	0.1765 0.2279	0.1621	0.1977	0.2074	0.2149	Ave		0.1978				12.4		20.0			
1-Chlorohexane	0.3742 0.4594	0.3719	0.4186	0.4403	0.4340	Ave		0.4164				8.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	+++++ 0.0135	0.0080	0.0111	0.0118	0.0127	Ave		0.0114				18.6		20.0			
Pentachloroethane	0.0999 0.1408	0.0697	0.0710	0.0986	0.1164	Ave		0.0994				27.4	*	20.0			
1,2,3-Trimethylbenzene	1.6603 2.1922	1.6949	2.0277	2.0909	2.0909	Ave		1.9595				11.5		20.0			
Benzyl chloride	+++++ 0.2519	0.1562	0.1929	0.2145	0.2326	Ave		0.2096				17.6		20.0			
1,3,5-Trichlorobenzene	0.6940 0.9027	0.7767	0.8661	0.8680	0.8608	Ave		0.8280				9.4		20.0			
2-Methylnaphthalene	0.4414 0.7171	0.5265	0.5761	0.6401	0.6755	Ave		0.5961				17.1		20.0			
1-Methylnaphthalene	0.3719 0.6339	0.4611	0.5537	0.5969	0.6095	Ave		0.5378				18.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	5457 896718	11301	108754	215625	442777	5.00 800	10.0	100	200	400
Diisopropyl ether	FB	Ave	3133 798576	6625	82477	175721	376478	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	5057 1269422	11420	138254	286358	594715	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	9044 2364815	19533	239506	518262	1107852	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	4509 1290936	10536	127343	278537	605390	1.00 160	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	4727 1139003	11381	126888	267016	553096	5.00 800	10.0	100	200	400
Methacrylonitrile	FB	Ave	18208 4504926	37890	470374	989714	2101907	5.00 800	10.0	100	200	400
Isooctane	FB	Ave	8598 2737094	20830	270247	605373	1243289	0.500 80.0	1.00	10.0	20.0	40.0
Tert-amyl-methyl ether (TAME)	FB	Ave	9481 2364034	18165	231324	506726	1104984	0.500 80.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Lin1	+++++ 480104	2295	41072	93035	214983	+++++ 2000	25.0	250	500	1000
Ethyl acrylate	FB	Ave	2978 923794	6636	83776	188923	420020	0.500 80.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	4174 1180481	8663	110975	248049	546060	1.00 160	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	1238 391604	2732	35233	78628	180588	1.00 160	2.00	20.0	40.0	80.0
n-Butyl acetate	FB	Ave	3712 913202	6910	87580	192617	428298	0.500 80.0	1.00	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	6381 1455198	12907	151095	328318	678828	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Ave	+++++ 229096	1498	21341	46930	105799	+++++ 800	10.0	100	200	400

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Pentachloroethane	CBNZ d5	Ave	3408 892044	4835	51259	147100	364165	1.00 160	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	15560 3712698	31838	389395	828541	1747967	0.500 80.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	+++++ 426558	2934	37047	85003	194435	+++++ 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	6504 1528824	14589	166326	343938	719649	0.500 80.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	8273 2428941	19778	221271	507266	1129364	1.00 160	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	6971 2147009	17322	212650	473084	1019067	1.00 160	2.00	20.0	40.0	80.0

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
n-Butanol	+++++	19.3						50				

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453487/5 Calibration Date: 09/29/2020 10:12

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31388.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1024	0.0500	0.0177	0.0200	-11.5	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6085	0.2000	0.0182	0.0200	-9.2	50.0
Hexachlorobutadiene	Ave	0.3403	0.3306		0.0194	0.0200	-2.8	50.0
Naphthalene	Ave	1.500	1.333		0.0178	0.0200	-11.1	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5379		0.0179	0.0200	-10.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.1997		0.0228	0.0249	-8.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2283		0.0241	0.0249	-3.2	20.0
Toluene-d8 (Surr)	Ave	1.075	1.056		0.0245	0.0249	-1.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.3978		0.0255	0.0249	2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-378870/25 Calibration Date: 04/30/2019 20:27

Instrument ID: A3UX12 Calib Start Date: 04/30/2019 14:10

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/30/2019 16:24

Lab File ID: U1269812.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2660	0.2521		0.0190	0.0200	-5.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2988	0.2907		0.0195	0.0200	-2.7	30.0
Toluene-d8 (Surr)	Ave	1.417	1.342		0.0189	0.0200	-5.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5219	0.4893		0.0188	0.0200	-6.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-378870/25 Calibration Date: 04/30/2019 20:27

Instrument ID: A3UX12 Calib Start Date: 04/30/2019 17:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/30/2019 20:05

Lab File ID: U1269812.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0552		0.175	0.200	-12.3	30.0
Diisopropyl ether	Ave	0.2698	0.2559		0.0190	0.0200	-5.2	30.0
2-Chloro-1,3-butadiene	Ave	0.4548	0.4546		0.0200	0.0200	-0.0	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.8827	0.8165		0.0185	0.0200	-7.5	30.0
Ethyl acetate	Ave	0.3663	0.3852		0.0421	0.0400	5.1	30.0
Propionitrile	Lin1		0.0720		0.189	0.200	-5.7	30.0
Methacrylonitrile	Ave	0.2471	0.2359		0.191	0.200	-4.5	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.9065	0.8735		0.0193	0.0200	-3.6	30.0
n-Butanol	Ave	0.0237	0.0184		0.388	0.500	-22.4	30.0
Ethyl acrylate	Ave	0.3838	0.4392		0.0229	0.0200	14.4	30.0
Methyl methacrylate	Ave	0.2550	0.2817		0.0442	0.0400	10.4	30.0
2-Nitropropane	Ave	0.0769	0.0706		0.0368	0.0400	-8.1	30.0
n-Butyl acetate	Ave	0.7023	0.7079		0.0202	0.0200	0.8	30.0
1-Chlorohexane	Ave	0.5721	0.5724		0.0200	0.0200	0.0	30.0
Cyclohexanone	Lin1		0.0233		0.166	0.200	-16.8	30.0
Pentachloroethane	Ave	0.4435	0.4317		0.0389	0.0400	-2.7	30.0
1,2,3-Trimethylbenzene	Ave	2.954	2.951		0.0200	0.0200	-0.1	30.0
Benzyl chloride	Ave	2.132	1.954		0.0183	0.0200	-8.4	30.0
1,3,5-Trichlorobenzene	Ave	1.258	1.110		0.0176	0.0200	-11.8	30.0
2-Methylnaphthalene	Ave	2.484	1.588		0.0256	0.0400	-36.1*	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-442963/17 Calibration Date: 07/16/2020 20:43

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1279121.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3124	0.3509	0.1000	0.0225	0.0200	12.3	30.0
Chloromethane	Ave	0.5311	0.5904	0.1000	0.0222	0.0200	11.2	30.0
Butadiene	Ave	0.3681	0.4281		0.0233	0.0200	16.3	30.0
Vinyl chloride	Ave	0.3743	0.4391	0.1000	0.0235	0.0200	17.3	30.0
Bromomethane	Ave	0.2481	0.2751	0.0500	0.0222	0.0200	10.9	30.0
Chloroethane	Ave	0.2724	0.3111	0.0500	0.0228	0.0200	14.2	30.0
Dichlorofluoromethane	Ave	0.5688	0.6178		0.0217	0.0200	8.6	30.0
Trichlorofluoromethane	Ave	0.4377	0.4814	0.1000	0.0220	0.0200	10.0	30.0
Ethyl ether	Ave	0.3037	0.3304		0.0218	0.0200	8.8	30.0
Acrolein	Ave	0.0262	0.0321		0.123	0.100	22.6	30.0
1,1-Dichloroethene	Ave	0.4021	0.4100	0.1000	0.0204	0.0200	2.0	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2362	0.2354	0.0500	0.0199	0.0200	-0.3	30.0
Acetone	Ave	0.1273	0.1438	0.0100	0.0452	0.0400	12.9	50.0
Iodomethane	Ave	0.4091	0.4420		0.0216	0.0200	8.0	30.0
Carbon disulfide	Ave	0.8097	0.8205	0.1000	0.0203	0.0200	1.3	30.0
3-Chloro-1-propene	Ave	0.4509	0.4650		0.0206	0.0200	3.1	30.0
Methyl acetate	Ave	0.3065	0.3473	0.1000	0.0453	0.0400	13.3	50.0
Methylene Chloride	Ave	0.3674	0.4041	0.1000	0.0220	0.0200	10.0	50.0
tert-Butyl alcohol	Ave	0.0380	0.0557		0.293	0.200	46.7*	30.0
Acrylonitrile	Ave	0.1589	0.1738		0.219	0.200	9.4	30.0
trans-1,2-Dichloroethene	Ave	0.3859	0.4140	0.1000	0.0215	0.0200	7.3	30.0
Methyl tert-butyl ether	Ave	0.8861	0.9183	0.1000	0.0207	0.0200	3.6	30.0
Hexane	Ave	0.4275	0.4675		0.0219	0.0200	9.4	30.0
1,1-Dichloroethane	Ave	0.5143	0.6173	0.2000	0.0240	0.0200	20.0	30.0
Vinyl acetate	Ave	0.7246	0.7980		0.0220	0.0200	10.1	30.0
2,2-Dichloropropane	Ave	0.3526	0.3801		0.0216	0.0200	7.8	30.0
cis-1,2-Dichloroethene	Ave	0.3599	0.3890	0.1000	0.0216	0.0200	8.1	30.0
2-Butanone	Ave	0.0631	0.0726	0.0100	0.0460	0.0400	15.0	50.0
Bromochloromethane	Ave	0.2926	0.3171		0.0217	0.0200	8.4	30.0
Tetrahydrofuran	Ave	0.1611	0.1994		0.0495	0.0400	23.8	30.0
Chloroform	Ave	0.5092	0.5736	0.2000	0.0225	0.0200	12.6	30.0
1,1,1-Trichloroethane	Ave	0.4037	0.4657	0.1000	0.0231	0.0200	15.3	30.0
Cyclohexane	Ave	0.4779	0.5352	0.1000	0.0224	0.0200	12.0	30.0
1,1-Dichloropropene	Ave	0.4108	0.4615		0.0225	0.0200	12.3	30.0
Carbon tetrachloride	Ave	0.3288	0.3656	0.1000	0.0222	0.0200	11.2	30.0
Isobutyl alcohol	Ave	0.0161	0.0230		0.714	0.500	42.7*	30.0
Benzene	Ave	1.228	1.390	0.5000	0.0226	0.0200	13.2	30.0
1,2-Dichloroethane	Ave	0.3989	0.4554	0.1000	0.0228	0.0200	14.2	30.0
n-Heptane	Lin1		0.2071		0.0187	0.0200	-6.5	30.0
Trichloroethene	Ave	0.2776	0.2927	0.1500	0.0211	0.0200	5.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-442963/17 Calibration Date: 07/16/2020 20:43

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1279121.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4860	0.4602	0.1000	0.0189	0.0200	-5.3	30.0
1,2-Dichloropropane	Ave	0.2651	0.2750	0.1000	0.0207	0.0200	3.7	30.0
Dibromomethane	Ave	0.1882	0.2021		0.0215	0.0200	7.4	30.0
1,4-Dioxane	Ave	0.0035	0.0039		0.454	0.400	13.5	50.0
Bromodichloromethane	Ave	0.3312	0.3543	0.1500	0.0214	0.0200	7.0	30.0
2-Chloroethyl vinyl ether	Ave	0.1997	0.2025		0.0203	0.0200	1.4	30.0
cis-1,3-Dichloropropene	Ave	0.4197	0.4401	0.1500	0.0210	0.0200	4.9	50.0
4-Methyl-2-pentanone	Ave	0.4341	0.4137	0.0500	0.0381	0.0400	-4.7	50.0
Toluene	Ave	1.659	1.351	0.4000	0.0163	0.0200	-18.6	30.0
trans-1,3-Dichloropropene	Ave	0.5377	0.4494	0.1000	0.0167	0.0200	-16.4	30.0
Ethyl methacrylate	Ave	0.5422	0.4760		0.0176	0.0200	-12.2	30.0
1,1,2-Trichloroethane	Ave	0.3249	0.2775	0.1000	0.0171	0.0200	-14.6	30.0
Tetrachloroethene	Ave	0.3971	0.3339	0.1500	0.0168	0.0200	-15.9	30.0
1,3-Dichloropropane	Ave	0.6096	0.5170		0.0170	0.0200	-15.2	30.0
2-Hexanone	Ave	0.4350	0.4478	0.0500	0.0412	0.0400	2.9	50.0
Dibromochloromethane	Ave	0.3194	0.3179		0.0199	0.0200	-0.5	30.0
1,2-Dibromoethane	Ave	0.3359	0.3434		0.0204	0.0200	2.2	30.0
Chlorobenzene	Ave	0.9701	0.998	0.3000	0.0206	0.0200	2.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3372		0.0204	0.0200	2.0	30.0
Ethylbenzene	Ave	0.5327	0.5515		0.0207	0.0200	3.5	30.0
m-Xylene & p-Xylene	Ave	0.6598	0.6862		0.0208	0.0200	4.0	30.0
o-Xylene	Ave	0.6795	0.6513		0.0192	0.0200	-4.1	30.0
Styrene	Ave	1.091	1.089	0.3000	0.0200	0.0200	-0.2	30.0
Bromoform	Ave	0.2201	0.2169	0.1000	0.0197	0.0200	-1.5	30.0
Isopropylbenzene	Ave	1.703	1.642	0.1000	0.0193	0.0200	-3.6	30.0
1,1,2,2-Tetrachloroethane	Ave	1.000	1.064	0.3000	0.0213	0.0200	6.4	30.0
Bromobenzene	Ave	0.7816	0.8109		0.0207	0.0200	3.7	30.0
1,2,3-Trichloropropane	Ave	0.3449	0.3582		0.0208	0.0200	3.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2927	0.3519		0.0240	0.0200	20.2	30.0
n-Propylbenzene	Ave	0.8506	0.9062		0.0213	0.0200	6.5	30.0
2-Chlorotoluene	Ave	0.7510	0.7708		0.0205	0.0200	2.6	30.0
1,3,5-Trimethylbenzene	Ave	2.508	2.720		0.0217	0.0200	8.5	30.0
4-Chlorotoluene	Ave	0.7704	0.7927		0.0206	0.0200	2.9	30.0
tert-Butylbenzene	Ave	2.195	2.312		0.0211	0.0200	5.3	30.0
1,2,4-Trimethylbenzene	Ave	2.634	2.787		0.0212	0.0200	5.8	30.0
sec-Butylbenzene	Ave	3.184	3.288		0.0207	0.0200	3.3	30.0
1,3-Dichlorobenzene	Ave	1.484	1.505	0.6000	0.0203	0.0200	1.4	30.0
p-Isopropyltoluene	Ave	2.648	2.880		0.0218	0.0200	8.8	30.0
1,4-Dichlorobenzene	Ave	1.537	1.557	0.5000	0.0203	0.0200	1.3	30.0
n-Butylbenzene	Ave	2.220	2.439		0.0220	0.0200	9.8	30.0
1,2-Dichlorobenzene	Ave	1.473	1.461	0.4000	0.0198	0.0200	-0.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-442963/17 Calibration Date: 07/16/2020 20:43

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1279121.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2336	0.2648	0.0500	0.0227	0.0200	13.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8111	0.9289	0.2000	0.0229	0.0200	14.5	50.0
Hexachlorobutadiene	Ave	0.3104	0.3818		0.0246	0.0200	23.0	50.0
Naphthalene	Ave	2.686	3.079		0.0229	0.0200	14.6	50.0
1,2,3-Trichlorobenzene	Ave	0.7472	0.8510		0.0228	0.0200	13.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2655	0.2811		0.0212	0.0200	5.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3249	0.3526		0.0217	0.0200	8.5	30.0
Toluene-d8 (Surr)	Ave	1.353	1.134		0.0168	0.0200	-16.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4632	0.4776		0.0206	0.0200	3.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCV 240-453571/3 Calibration Date: 09/29/2020 17:28

Instrument ID: A3UX12 Calib Start Date: 04/30/2019 17:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/30/2019 20:05

Lab File ID: U1280876a.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0650		0.208	0.200	4.1	20.0
Diisopropyl ether	Ave	0.2698	0.2592		0.0192	0.0200	-3.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4548	0.5086		0.0224	0.0200	11.8	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.8827	0.9304		0.0211	0.0200	5.4	20.0
Ethyl acetate	Ave	0.3663	0.4321		0.0472	0.0400	18.0	20.0
Propionitrile	Lin1		0.0704		0.184	0.200	-7.9	20.0
Methacrylonitrile	Ave	0.2471	0.2838		0.230	0.200	14.8	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.9065	0.9855		0.0217	0.0200	8.7	20.0
n-Butanol	Ave	0.0237	0.0186		0.393	0.500	-21.5*	20.0
Ethyl acrylate	Ave	0.3838	0.5010		0.0261	0.0200	30.5*	20.0
Methyl methacrylate	Ave	0.2550	0.3484		0.0546	0.0400	36.6*	20.0
2-Nitropropane	Ave	0.0769	0.0966		0.0503	0.0400	25.7*	20.0
n-Butyl acetate	Ave	0.7023	0.8839		0.0252	0.0200	25.9*	20.0
1-Chlorohexane	Ave	0.5721	0.6143		0.0215	0.0200	7.4	20.0
Cyclohexanone	Lin1		0.0234		0.167	0.200	-16.5	20.0
Pentachloroethane	Ave	0.4435	0.4135		0.0373	0.0400	-6.8	20.0
1,2,3-Trimethylbenzene	Ave	2.954	2.766		0.0187	0.0200	-6.4	20.0
Benzyl chloride	Ave	2.132	2.045		0.0192	0.0200	-4.1	20.0
1,3,5-Trichlorobenzene	Ave	1.258	0.9485		0.0151	0.0200	-24.6*	20.0
2-Methylnaphthalene	Ave	2.484	1.275		0.0205	0.0400	-48.7*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453571/4 Calibration Date: 09/29/2020 17:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280877.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3124	0.3220	0.1000	0.0206	0.0200	3.1	20.0
Chloromethane	Ave	0.5311	0.5185	0.1000	0.0195	0.0200	-2.4	20.0
Butadiene	Ave	0.3681	0.4103		0.0223	0.0200	11.5	20.0
Vinyl chloride	Ave	0.3743	0.3607	0.1000	0.0193	0.0200	-3.6	20.0
Bromomethane	Ave	0.2481	0.2125	0.0500	0.0171	0.0200	-14.3	20.0
Chloroethane	Ave	0.2724	0.2438	0.0500	0.0179	0.0200	-10.5	20.0
Dichlorofluoromethane	Ave	0.5688	0.4908		0.0173	0.0200	-13.7	20.0
Trichlorofluoromethane	Ave	0.4377	0.3980	0.1000	0.0182	0.0200	-9.1	20.0
Ethyl ether	Ave	0.3037	0.2752		0.0181	0.0200	-9.4	20.0
Acrolein	Ave	0.0262	0.0275		0.105	0.100	5.1	20.0
1,1-Dichloroethene	Ave	0.4021	0.4231	0.1000	0.0210	0.0200	5.2	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2362	0.2591	0.0500	0.0219	0.0200	9.7	20.0
Acetone	Ave	0.1273	0.1503	0.0100	0.0472	0.0400	18.0	50.0
Iodomethane	Ave	0.4091	0.3841		0.0188	0.0200	-6.1	20.0
Carbon disulfide	Ave	0.8097	0.8183	0.1000	0.0202	0.0200	1.1	20.0
3-Chloro-1-propene	Ave	0.4509	0.4959		0.0220	0.0200	10.0	20.0
Methyl acetate	Ave	0.3065	0.3626	0.1000	0.0473	0.0400	18.3	50.0
Methylene Chloride	Ave	0.3674	0.3744	0.1000	0.0204	0.0200	1.9	50.0
tert-Butyl alcohol	Ave	0.0380	0.0519		0.273	0.200	36.6*	20.0
Acrylonitrile	Ave	0.1589	0.1775		0.224	0.200	11.8	20.0
Methyl tert-butyl ether	Ave	0.8861	0.8932	0.1000	0.0202	0.0200	0.8	20.0
trans-1,2-Dichloroethene	Ave	0.3859	0.4117	0.1000	0.0213	0.0200	6.7	20.0
Hexane	Ave	0.4275	0.4883		0.0228	0.0200	14.2	20.0
1,1-Dichloroethane	Ave	0.5143	0.5204	0.2000	0.0202	0.0200	1.2	20.0
Vinyl acetate	Ave	0.7246	0.7486		0.0207	0.0200	3.3	20.0
2,2-Dichloropropane	Ave	0.3526	0.2956		0.0168	0.0200	-16.2	20.0
cis-1,2-Dichloroethene	Ave	0.3599	0.3038	0.1000	0.0169	0.0200	-15.6	20.0
2-Butanone	Ave	0.0631	0.0624	0.0100	0.0396	0.0400	-1.1	50.0
Bromochloromethane	Ave	0.2926	0.2594		0.0177	0.0200	-11.4	20.0
Tetrahydrofuran	Ave	0.1611	0.1729		0.0429	0.0400	7.3	20.0
Chloroform	Ave	0.5092	0.4658	0.2000	0.0183	0.0200	-8.5	20.0
1,1,1-Trichloroethane	Ave	0.4037	0.3925	0.1000	0.0194	0.0200	-2.8	20.0
Cyclohexane	Ave	0.4779	0.4873	0.1000	0.0204	0.0200	2.0	20.0
1,1-Dichloropropene	Ave	0.4108	0.4219		0.0205	0.0200	2.7	20.0
Carbon tetrachloride	Ave	0.3288	0.3243	0.1000	0.0197	0.0200	-1.4	20.0
Isobutyl alcohol	Ave	0.0161	0.0202		0.625	0.500	25.0*	20.0
Benzene	Ave	1.228	1.205	0.5000	0.0196	0.0200	-1.8	20.0
1,2-Dichloroethane	Ave	0.3989	0.3700	0.1000	0.0186	0.0200	-7.2	20.0
n-Heptane	Lin1		0.2284		0.0210	0.0200	4.8	20.0
Trichloroethene	Ave	0.2776	0.2895	0.1500	0.0209	0.0200	4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453571/4 Calibration Date: 09/29/2020 17:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280877.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4860	0.5271	0.1000	0.0217	0.0200	8.5	20.0
1,2-Dichloropropane	Ave	0.2651	0.2851	0.1000	0.0215	0.0200	7.5	20.0
Dibromomethane	Ave	0.1882	0.1808		0.0192	0.0200	-4.0	20.0
1,4-Dioxane	Ave	0.0035	0.0049		0.565	0.400	41.1	50.0
Bromodichloromethane	Ave	0.3312	0.3265	0.1500	0.0197	0.0200	-1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1997	0.2195		0.0440	0.0400	9.9	20.0
cis-1,3-Dichloropropene	Ave	0.4197	0.4476	0.1500	0.0213	0.0200	6.7	50.0
4-Methyl-2-pentanone	Ave	0.4341	0.4541	0.0500	0.0418	0.0400	4.6	50.0
Toluene	Ave	1.659	1.706	0.4000	0.0206	0.0200	2.8	20.0
trans-1,3-Dichloropropene	Ave	0.5377	0.5705	0.1000	0.0212	0.0200	6.1	20.0
Ethyl methacrylate	Ave	0.5422	0.6020		0.0222	0.0200	11.0	20.0
1,1,2-Trichloroethane	Ave	0.3249	0.3293	0.1000	0.0203	0.0200	1.3	20.0
Tetrachloroethene	Ave	0.3971	0.4173	0.1500	0.0210	0.0200	5.1	20.0
1,3-Dichloropropane	Ave	0.6096	0.6397		0.0210	0.0200	4.9	20.0
2-Hexanone	Ave	0.4350	0.4881	0.0500	0.0449	0.0400	12.2	50.0
Dibromochloromethane	Ave	0.3194	0.3149		0.0197	0.0200	-1.4	20.0
1,2-Dibromoethane	Ave	0.3359	0.3511		0.0209	0.0200	4.5	20.0
Chlorobenzene	Ave	0.9701	1.031	0.3000	0.0213	0.0200	6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3350		0.0203	0.0200	1.3	20.0
Ethylbenzene	Ave	0.5327	0.5914		0.0222	0.0200	11.0	20.0
m-Xylene & p-Xylene	Ave	0.6598	0.7354		0.0223	0.0200	11.5	20.0
o-Xylene	Ave	0.6795	0.7129		0.0210	0.0200	4.9	20.0
Styrene	Ave	1.091	1.175	0.3000	0.0215	0.0200	7.7	20.0
Bromoform	Ave	0.2201	0.2229	0.1000	0.0202	0.0200	1.2	20.0
Isopropylbenzene	Ave	1.703	1.842	0.1000	0.0216	0.0200	8.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.000	1.080	0.3000	0.0216	0.0200	8.1	20.0
Bromobenzene	Ave	0.7816	0.8398		0.0215	0.0200	7.4	20.0
1,2,3-Trichloropropane	Ave	0.3449	0.3764		0.0218	0.0200	9.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2927	0.2777		0.0190	0.0200	-5.1	20.0
n-Propylbenzene	Ave	0.8506	0.9862		0.0232	0.0200	15.9	20.0
2-Chlorotoluene	Ave	0.7510	0.7992		0.0213	0.0200	6.4	20.0
1,3,5-Trimethylbenzene	Ave	2.508	2.804		0.0224	0.0200	11.8	20.0
4-Chlorotoluene	Ave	0.7704	0.8323		0.0216	0.0200	8.0	20.0
tert-Butylbenzene	Ave	2.195	2.453		0.0223	0.0200	11.7	20.0
1,2,4-Trimethylbenzene	Ave	2.634	2.817		0.0214	0.0200	6.9	20.0
sec-Butylbenzene	Ave	3.184	3.476		0.0218	0.0200	9.2	20.0
1,3-Dichlorobenzene	Ave	1.484	1.562	0.6000	0.0211	0.0200	5.3	20.0
p-Isopropyltoluene	Ave	2.648	2.981		0.0225	0.0200	12.6	20.0
1,4-Dichlorobenzene	Ave	1.537	1.578	0.5000	0.0205	0.0200	2.7	20.0
n-Butylbenzene	Ave	2.220	2.477		0.0223	0.0200	11.6	20.0
1,2-Dichlorobenzene	Ave	1.473	1.527	0.4000	0.0207	0.0200	3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453571/4 Calibration Date: 09/29/2020 17:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280877.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2336	0.2766	0.0500	0.0237	0.0200	18.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8111	0.8930	0.2000	0.0220	0.0200	10.1	50.0
Hexachlorobutadiene	Ave	0.3104	0.3196		0.0206	0.0200	2.9	50.0
Naphthalene	Ave	2.686	3.124		0.0233	0.0200	16.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7472	0.8400		0.0225	0.0200	12.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2655	0.2408		0.0181	0.0200	-9.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3249	0.3017		0.0186	0.0200	-7.1	20.0
Toluene-d8 (Surr)	Ave	1.353	1.402		0.0207	0.0200	3.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4632	0.5122		0.0221	0.0200	10.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCV 240-453771/3 Calibration Date: 09/30/2020 16:29

Instrument ID: A3UX12 Calib Start Date: 04/30/2019 17:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/30/2019 20:05

Lab File ID: U1280902a.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0697		0.224	0.200	12.0	20.0
Diisopropyl ether	Ave	0.2698	0.2633		0.0195	0.0200	-2.4	20.0
2-Chloro-1,3-butadiene	Ave	0.4548	0.5303		0.0233	0.0200	16.6	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.8827	0.9415		0.0213	0.0200	6.7	20.0
Ethyl acetate	Ave	0.3663	0.4114		0.0449	0.0400	12.3	20.0
Propionitrile	Lin1		0.0748		0.196	0.200	-1.9	20.0
Methacrylonitrile	Ave	0.2471	0.2819		0.228	0.200	14.1	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.9065	1.014		0.0224	0.0200	11.9	20.0
n-Butanol	Ave	0.0237	0.0196		0.414	0.500	-17.3	20.0
Ethyl acrylate	Ave	0.3838	0.4696		0.0245	0.0200	22.4*	20.0
Methyl methacrylate	Ave	0.2550	0.3260		0.0511	0.0400	27.8*	20.0
2-Nitropropane	Ave	0.0769	0.0918		0.0478	0.0400	19.5	20.0
n-Butyl acetate	Ave	0.7023	0.8416		0.0240	0.0200	19.8	20.0
1-Chlorohexane	Ave	0.5721	0.6089		0.0213	0.0200	6.4	20.0
Cyclohexanone	Lin1		0.0252		0.181	0.200	-9.7	20.0
Pentachloroethane	Ave	0.4435	0.4361		0.0393	0.0400	-1.7	20.0
1,2,3-Trimethylbenzene	Ave	2.954	2.888		0.0196	0.0200	-2.2	20.0
Benzyl chloride	Ave	2.132	2.131		0.0200	0.0200	-0.0	20.0
1,3,5-Trichlorobenzene	Ave	1.258	1.023		0.0163	0.0200	-18.7	20.0
2-Methylnaphthalene	Ave	2.484	1.427		0.0230	0.0400	-42.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453771/4 Calibration Date: 09/30/2020 16:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280903.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3124	0.3191	0.1000	0.0204	0.0200	2.1	20.0
Chloromethane	Ave	0.5311	0.5199	0.1000	0.0196	0.0200	-2.1	20.0
Butadiene	Ave	0.3681	0.4048		0.0220	0.0200	10.0	20.0
Vinyl chloride	Ave	0.3743	0.3662	0.1000	0.0196	0.0200	-2.1	20.0
Bromomethane	Ave	0.2481	0.2143	0.0500	0.0173	0.0200	-13.6	20.0
Chloroethane	Ave	0.2724	0.2430	0.0500	0.0178	0.0200	-10.8	20.0
Dichlorofluoromethane	Ave	0.5688	0.4931		0.0173	0.0200	-13.3	20.0
Trichlorofluoromethane	Ave	0.4377	0.4000	0.1000	0.0183	0.0200	-8.6	20.0
Ethyl ether	Ave	0.3037	0.2667		0.0176	0.0200	-12.2	20.0
Acrolein	Ave	0.0262	0.0203		0.0775	0.100	-22.5*	20.0
1,1-Dichloroethene	Ave	0.4021	0.4117	0.1000	0.0205	0.0200	2.4	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2362	0.2492	0.0500	0.0211	0.0200	5.5	20.0
Acetone	Ave	0.1273	0.1247	0.0100	0.0392	0.0400	-2.0	50.0
Iodomethane	Ave	0.4091	0.3903		0.0191	0.0200	-4.6	20.0
Carbon disulfide	Ave	0.8097	0.8114	0.1000	0.0200	0.0200	0.2	20.0
3-Chloro-1-propene	Ave	0.4509	0.4837		0.0215	0.0200	7.3	20.0
Methyl acetate	Ave	0.3065	0.3341	0.1000	0.0436	0.0400	9.0	50.0
Methylene Chloride	Ave	0.3674	0.3709	0.1000	0.0202	0.0200	0.9	50.0
tert-Butyl alcohol	Ave	0.0380	0.0341		0.180	0.200	-10.1	20.0
Acrylonitrile	Ave	0.1589	0.1604		0.202	0.200	1.0	20.0
Methyl tert-butyl ether	Ave	0.8861	0.8529	0.1000	0.0193	0.0200	-3.7	20.0
trans-1,2-Dichloroethene	Ave	0.3859	0.4085	0.1000	0.0212	0.0200	5.8	20.0
Hexane	Ave	0.4275	0.4596		0.0215	0.0200	7.5	20.0
1,1-Dichloroethane	Ave	0.5143	0.5085	0.2000	0.0198	0.0200	-1.1	20.0
Vinyl acetate	Ave	0.7246	0.6507		0.0180	0.0200	-10.2	20.0
2,2-Dichloropropane	Ave	0.3526	0.2968		0.0168	0.0200	-15.8	20.0
cis-1,2-Dichloroethene	Ave	0.3599	0.3009	0.1000	0.0167	0.0200	-16.4	20.0
2-Butanone	Ave	0.0631	0.0554	0.0100	0.0351	0.0400	-12.3	50.0
Bromochloromethane	Ave	0.2926	0.2525		0.0173	0.0200	-13.7	20.0
Tetrahydrofuran	Ave	0.1611	0.1532		0.0380	0.0400	-4.9	20.0
Chloroform	Ave	0.5092	0.4603	0.2000	0.0181	0.0200	-9.6	20.0
1,1,1-Trichloroethane	Ave	0.4037	0.3773	0.1000	0.0187	0.0200	-6.5	20.0
Cyclohexane	Ave	0.4779	0.4735	0.1000	0.0198	0.0200	-0.9	20.0
1,1-Dichloropropene	Ave	0.4108	0.4026		0.0196	0.0200	-2.0	20.0
Carbon tetrachloride	Ave	0.3288	0.3109	0.1000	0.0189	0.0200	-5.4	20.0
Isobutyl alcohol	Ave	0.0161	0.0175		0.543	0.500	8.6	20.0
Benzene	Ave	1.228	1.163	0.5000	0.0190	0.0200	-5.2	20.0
1,2-Dichloroethane	Ave	0.3989	0.3540	0.1000	0.0178	0.0200	-11.2	20.0
n-Heptane	Lin1		0.2121		0.0192	0.0200	-3.9	20.0
Trichloroethene	Ave	0.2776	0.2779	0.1500	0.0200	0.0200	0.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453771/4 Calibration Date: 09/30/2020 16:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280903.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4860	0.4955	0.1000	0.0204	0.0200	2.0	20.0
1,2-Dichloropropane	Ave	0.2651	0.2693	0.1000	0.0203	0.0200	1.6	20.0
1,4-Dioxane	Ave	0.0035	0.0040		0.460	0.400	15.1	50.0
Dibromomethane	Ave	0.1882	0.1753		0.0186	0.0200	-6.9	20.0
Bromodichloromethane	Ave	0.3312	0.3101	0.1500	0.0187	0.0200	-6.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1997	0.1974		0.0395	0.0400	-1.2	20.0
cis-1,3-Dichloropropene	Ave	0.4197	0.4125	0.1500	0.0197	0.0200	-1.7	50.0
4-Methyl-2-pentanone	Ave	0.4341	0.4079	0.0500	0.0376	0.0400	-6.0	50.0
Toluene	Ave	1.659	1.612	0.4000	0.0194	0.0200	-2.9	20.0
trans-1,3-Dichloropropene	Ave	0.5377	0.5277	0.1000	0.0196	0.0200	-1.8	20.0
Ethyl methacrylate	Ave	0.5422	0.5638		0.0208	0.0200	4.0	20.0
1,1,2-Trichloroethane	Ave	0.3249	0.3161	0.1000	0.0195	0.0200	-2.7	20.0
Tetrachloroethene	Ave	0.3971	0.4027	0.1500	0.0203	0.0200	1.4	20.0
1,3-Dichloropropane	Ave	0.6096	0.6062		0.0199	0.0200	-0.6	20.0
2-Hexanone	Ave	0.4350	0.4587	0.0500	0.0422	0.0400	5.4	50.0
Dibromochloromethane	Ave	0.3194	0.2994		0.0187	0.0200	-6.3	20.0
1,2-Dibromoethane	Ave	0.3359	0.3347		0.0199	0.0200	-0.4	20.0
Chlorobenzene	Ave	0.9701	0.9791	0.3000	0.0202	0.0200	0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3253		0.0197	0.0200	-1.6	20.0
Ethylbenzene	Ave	0.5327	0.5624		0.0211	0.0200	5.6	20.0
m-Xylene & p-Xylene	Ave	0.6598	0.7002		0.0212	0.0200	6.1	20.0
o-Xylene	Ave	0.6795	0.6822		0.0201	0.0200	0.4	20.0
Styrene	Ave	1.091	1.094	0.3000	0.0201	0.0200	0.3	20.0
Bromoform	Ave	0.2201	0.2345	0.1000	0.0213	0.0200	6.5	20.0
Isopropylbenzene	Ave	1.703	1.776	0.1000	0.0209	0.0200	4.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.000	1.022	0.3000	0.0204	0.0200	2.2	20.0
Bromobenzene	Ave	0.7816	0.7873		0.0201	0.0200	0.7	20.0
1,2,3-Trichloropropane	Ave	0.3449	0.3410		0.0198	0.0200	-1.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2927	0.2594		0.0177	0.0200	-11.4	20.0
n-Propylbenzene	Ave	0.8506	0.9107		0.0214	0.0200	7.1	20.0
2-Chlorotoluene	Ave	0.7510	0.7561		0.0201	0.0200	0.7	20.0
1,3,5-Trimethylbenzene	Ave	2.508	2.592		0.0207	0.0200	3.4	20.0
4-Chlorotoluene	Ave	0.7704	0.7720		0.0200	0.0200	0.2	20.0
tert-Butylbenzene	Ave	2.195	2.241		0.0204	0.0200	2.1	20.0
1,2,4-Trimethylbenzene	Ave	2.634	2.606		0.0198	0.0200	-1.1	20.0
sec-Butylbenzene	Ave	3.184	3.196		0.0201	0.0200	0.4	20.0
1,3-Dichlorobenzene	Ave	1.484	1.456	0.6000	0.0196	0.0200	-1.9	20.0
p-Isopropyltoluene	Ave	2.648	2.727		0.0206	0.0200	3.0	20.0
1,4-Dichlorobenzene	Ave	1.537	1.463	0.5000	0.0190	0.0200	-4.8	20.0
n-Butylbenzene	Ave	2.220	2.244		0.0202	0.0200	1.1	20.0
1,2-Dichlorobenzene	Ave	1.473	1.410	0.4000	0.0191	0.0200	-4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453771/4 Calibration Date: 09/30/2020 16:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280903.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2336	0.2539	0.0500	0.0217	0.0200	8.7	50.0
1,2,4-Trichlorobenzene	Ave	0.8111	0.8205	0.2000	0.0202	0.0200	1.2	50.0
Hexachlorobutadiene	Ave	0.3104	0.2886		0.0186	0.0200	-7.0	50.0
Naphthalene	Ave	2.686	2.882		0.0215	0.0200	7.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7472	0.7683		0.0206	0.0200	2.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2655	0.2390		0.0180	0.0200	-10.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3249	0.2967		0.0183	0.0200	-8.7	20.0
Toluene-d8 (Surr)	Ave	1.353	1.381		0.0204	0.0200	2.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4632	0.4977		0.0215	0.0200	7.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.2726	0.1000	0.0221	0.0200	10.4	30.0
Chloromethane	Ave	0.3154	0.3025	0.1000	0.0192	0.0200	-4.1	30.0
Vinyl chloride	Ave	0.3384	0.3433	0.1000	0.0203	0.0200	1.5	30.0
Butadiene	Ave	0.2983	0.3191		0.0214	0.0200	7.0	30.0
Bromomethane	Ave	0.2173	0.1999	0.0500	0.0184	0.0200	-8.0	30.0
Chloroethane	Ave	0.1802	0.1765	0.0500	0.0196	0.0200	-2.1	30.0
Dichlorofluoromethane	Ave	0.3832	0.4058		0.0212	0.0200	5.9	30.0
Trichlorofluoromethane	Ave	0.3386	0.3733	0.1000	0.0221	0.0200	10.3	30.0
Ethyl ether	Ave	0.1595	0.1514		0.0190	0.0200	-5.1	30.0
Acrolein NA	Ave	0.0119	0.0069		0.0579	0.100	-42.1*	30.0
1,1-Dichloroethene	Ave	0.2049	0.1999	0.1000	0.0195	0.0200	-2.4	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.1762	0.0500	0.0218	0.0200	9.1	30.0
Acetone	Ave	0.0178	0.0142	0.0100	0.0319	0.0400	-20.2	50.0
Iodomethane	Ave	0.3163	0.2718		0.0172	0.0200	-14.0	30.0
Carbon disulfide	Ave	0.6609	0.6132	0.1000	0.0186	0.0200	-7.2	30.0
Methyl acetate	Ave	0.1238	0.1097	0.1000	0.0354	0.0400	-11.4	50.0
3-Chloro-1-propene	Ave	0.2690	0.2515		0.0187	0.0200	-6.5	30.0
Methylene Chloride	Ave	0.2433	0.2261	0.1000	0.0186	0.0200	-7.1	50.0
tert-Butyl alcohol	Ave	0.0158	0.0130		0.165	0.200	-17.3	30.0
Acrylonitrile	Ave	0.0732	0.0657		0.179	0.200	-10.3	30.0
Methyl tert-butyl ether	Ave	0.5668	0.5340	0.1000	0.0188	0.0200	-5.8	30.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2345	0.1000	0.0193	0.0200	-3.3	30.0
Hexane	Ave	0.2648	0.3109		0.0235	0.0200	17.4	30.0
Vinyl acetate	Lin1		0.2549		0.0159	0.0200	-20.7	30.0
1,1-Dichloroethane	Ave	0.3751	0.3549	0.2000	0.0189	0.0200	-5.4	30.0
2-Butanone	Lin1		0.0194	0.0100	0.0330	0.0400	-17.6	50.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2532	0.1000	0.0196	0.0200	-2.2	30.0
2,2-Dichloropropane	Ave	0.3219	0.3218		0.0200	0.0200	-0.0	30.0
Bromochloromethane	Ave	0.1223	0.1142		0.0187	0.0200	-6.6	30.0
Tetrahydrofuran	Ave	0.0470	0.0414		0.0352	0.0400	-11.9	30.0
Chloroform	Ave	0.3871	0.3673	0.2000	0.0190	0.0200	-5.1	30.0
1,1,1-Trichloroethane	Ave	0.3419	0.3362	0.1000	0.0197	0.0200	-1.6	30.0
Cyclohexane	Ave	0.3195	0.3491	0.1000	0.0218	0.0200	9.2	30.0
1,1-Dichloropropene	Ave	0.3034	0.2966		0.0196	0.0200	-2.2	30.0
Carbon tetrachloride	Ave	0.3037	0.2977	0.1000	0.0196	0.0200	-2.0	30.0
Isobutyl alcohol	Lin1		0.0040		0.408	0.500	-18.4	30.0
Benzene	Ave	0.9186	0.8855	0.5000	0.0193	0.0200	-3.6	30.0
1,2-Dichloroethane	Ave	0.2786	0.2608	0.1000	0.0187	0.0200	-6.4	30.0
n-Heptane	Lin1		0.1946		0.0226	0.0200	13.0	30.0
Trichloroethene	Ave	0.2729	0.2620	0.1500	0.0192	0.0200	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.4060	0.1000	0.0216	0.0200	7.9	30.0
1,2-Dichloropropane	Ave	0.2086	0.2029	0.1000	0.0195	0.0200	-2.7	30.0
1,4-Dioxane	Ave	0.0025	0.0022		0.357	0.400	-10.7	50.0
Dibromomethane	Ave	0.1316	0.1223		0.0186	0.0200	-7.0	30.0
Bromodichloromethane	Ave	0.2770	0.2745	0.1500	0.0198	0.0200	-0.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1146		0.0178	0.0200	-11.2	30.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3342	0.1500	0.0197	0.0200	-1.7	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1278	0.0500	0.0364	0.0400	-9.0	50.0
Toluene	Ave	1.254	1.218	0.4000	0.0194	0.0200	-2.9	30.0
trans-1,3-Dichloropropene	Ave	0.3909	0.3512	0.1000	0.0180	0.0200	-10.2	30.0
Ethyl methacrylate	Ave	0.2932	0.2722		0.0186	0.0200	-7.2	30.0
1,1,2-Trichloroethane	Ave	0.2394	0.2289	0.1000	0.0191	0.0200	-4.4	30.0
Tetrachloroethene	Ave	0.2814	0.2708	0.1500	0.0192	0.0200	-3.8	30.0
1,3-Dichloropropane	Ave	0.4145	0.3957		0.0191	0.0200	-4.5	30.0
2-Hexanone	Ave	0.1247	0.1078	0.0500	0.0346	0.0400	-13.6	50.0
Dibromochloromethane	Ave	0.2667	0.2578		0.0193	0.0200	-3.3	30.0
1,2-Dibromoethane	Ave	0.2447	0.2341		0.0191	0.0200	-4.3	30.0
Chlorobenzene	Ave	0.8600	0.8278	0.3000	0.0193	0.0200	-3.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2770		0.0195	0.0200	-2.7	30.0
Ethylbenzene	Ave	0.4675	0.4578		0.0196	0.0200	-2.1	30.0
m-Xylene & p-Xylene	Ave	0.5742	0.5611		0.0195	0.0200	-2.3	30.0
o-Xylene	Ave	0.5485	0.5397		0.0197	0.0200	-1.6	30.0
Styrene	Ave	0.9033	0.9110	0.3000	0.0202	0.0200	0.9	30.0
Bromoform	Ave	0.1818	0.1599	0.1000	0.0176	0.0200	-12.0	30.0
Isopropylbenzene	Ave	1.400	1.423	0.1000	0.0203	0.0200	1.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.4850	0.3000	0.0190	0.0200	-4.9	30.0
Bromobenzene	Ave	0.6625	0.6290		0.0190	0.0200	-5.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1374		0.0188	0.0200	-5.8	30.0
1,2,3-Trichloropropane	Ave	0.1803	0.1687		0.0187	0.0200	-6.4	30.0
n-Propylbenzene	Ave	0.7465	0.7443		0.0199	0.0200	-0.3	30.0
2-Chlorotoluene	Ave	0.6294	0.6260		0.0199	0.0200	-0.5	30.0
1,3,5-Trimethylbenzene	Ave	2.020	2.084		0.0206	0.0200	3.2	30.0
4-Chlorotoluene	Ave	0.6506	0.6585		0.0202	0.0200	1.2	30.0
tert-Butylbenzene	Ave	1.852	1.855		0.0200	0.0200	0.2	30.0
1,2,4-Trimethylbenzene	Ave	1.990	2.075		0.0209	0.0200	4.3	30.0
sec-Butylbenzene	Ave	2.659	2.745		0.0206	0.0200	3.2	30.0
1,3-Dichlorobenzene	Ave	1.270	1.219	0.6000	0.0192	0.0200	-4.0	30.0
p-Isopropyltoluene	Ave	2.297	2.390		0.0208	0.0200	4.1	30.0
1,4-Dichlorobenzene	Ave	1.281	1.227	0.5000	0.0192	0.0200	-4.2	30.0
n-Butylbenzene	Ave	1.953	2.025		0.0207	0.0200	3.7	30.0
1,2-Dichlorobenzene	Ave	1.174	1.092	0.4000	0.0186	0.0200	-7.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1072	0.0500	0.0185	0.0200	-7.4	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6161	0.2000	0.0184	0.0200	-8.0	50.0
Hexachlorobutadiene	Ave	0.3403	0.3373		0.0198	0.0200	-0.9	50.0
Naphthalene	Ave	1.500	1.390		0.0185	0.0200	-7.3	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5563		0.0186	0.0200	-7.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.2550		0.0234	0.0200	17.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2595		0.0220	0.0200	10.0	30.0
Toluene-d8 (Surr)	Ave	1.075	1.286		0.0239	0.0200	19.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.5080		0.0262	0.0200	30.9*	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/25 Calibration Date: 09/08/2020 18:58

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31038.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2180	0.2608		0.0239	0.0200	19.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2720		0.0231	0.0200	15.3	30.0
Toluene-d8 (Surr)	Ave	1.075	1.266		0.0235	0.0200	17.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.4944		0.0255	0.0200	27.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/25 Calibration Date: 09/08/2020 18:58

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM31038.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0228		0.189	0.200	-5.7	30.0
Diisopropyl ether	Ave	0.1780	0.1823		0.0205	0.0200	2.4	30.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.2848		0.0196	0.0200	-2.0	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.5265		0.0202	0.0200	0.8	30.0
Ethyl acetate	Ave	0.1396	0.1436		0.0412	0.0400	2.9	30.0
Propionitrile	Ave	0.0271	0.0280		0.207	0.200	3.3	30.0
Methacrylonitrile	Ave	0.1010	0.1023		0.202	0.200	1.2	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.5378		0.0209	0.0200	4.4	30.0
n-Butanol	Lin1		0.0038		0.431	0.500	-13.8	30.0
Ethyl acrylate	Ave	0.1885	0.1983		0.0210	0.0200	5.2	30.0
Methyl methacrylate	Ave	0.1240	0.1315		0.0424	0.0400	6.0	30.0
2-Nitropropane	Ave	0.0396	0.0398		0.0401	0.0400	0.3	30.0
n-Butyl acetate	Ave	0.1978	0.1984		0.0201	0.0200	0.3	30.0
1-Chlorohexane	Ave	0.4164	0.4024		0.0193	0.0200	-3.4	30.0
Cyclohexanone	Ave	0.0114	0.0122		0.213	0.200	6.4	30.0
Pentachloroethane	Ave	0.0994	0.0825		0.0332	0.0400	-17.0	30.0
1,2,3-Trimethylbenzene	Ave	1.959	2.063		0.0211	0.0200	5.3	30.0
Benzyl chloride	Ave	0.2096	0.1743		0.0166	0.0200	-16.8	30.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.8225		0.0199	0.0200	-0.7	30.0
2-Methylnaphthalene	Ave	0.5961	0.5556		0.0373	0.0400	-6.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCV 240-453487/4 Calibration Date: 09/29/2020 09:47

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM31387.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0252		0.209	0.200	4.5	20.0
Diisopropyl ether	Ave	0.1780	0.1630		0.0183	0.0200	-8.5	20.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.2895		0.0199	0.0200	-0.4	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.5048		0.0193	0.0200	-3.3	20.0
Ethyl acetate	Ave	0.1396	0.1447		0.0415	0.0400	3.6	20.0
Propionitrile	Ave	0.0271	0.0267		0.197	0.200	-1.4	20.0
Methacrylonitrile	Ave	0.1010	0.1024		0.203	0.200	1.4	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.4879		0.0190	0.0200	-5.2	20.0
n-Butanol	Lin1		0.0036		0.407	0.500	-18.7	20.0
Ethyl acrylate	Ave	0.1885	0.1808		0.0192	0.0200	-4.1	20.0
Methyl methacrylate	Ave	0.1240	0.1315		0.0424	0.0400	6.1	20.0
2-Nitropropane	Ave	0.0396	0.0399		0.0403	0.0400	0.8	20.0
n-Butyl acetate	Ave	0.1978	0.1916		0.0194	0.0200	-3.1	20.0
1-Chlorohexane	Ave	0.4164	0.3859		0.0185	0.0200	-7.3	20.0
Cyclohexanone	Ave	0.0114	0.0107		0.188	0.200	-6.2	20.0
Pentachloroethane	Ave	0.0994	0.1174		0.0473	0.0400	18.1	20.0
1,2,3-Trimethylbenzene	Ave	1.959	1.766		0.0180	0.0200	-9.9	20.0
Benzyl chloride	Ave	0.2096	0.1834		0.0175	0.0200	-12.5	20.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.7806		0.0189	0.0200	-5.7	20.0
2-Methylnaphthalene	Ave	0.5961	0.5355		0.0359	0.0400	-10.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453487/5 Calibration Date: 09/29/2020 10:12

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31388.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.2572	0.1000	0.0208	0.0200	4.1	20.0
Chloromethane	Ave	0.3154	0.2855	0.1000	0.0181	0.0200	-9.5	20.0
Vinyl chloride	Ave	0.3384	0.3349	0.1000	0.0198	0.0200	-1.0	20.0
Butadiene	Ave	0.2983	0.3096		0.0208	0.0200	3.8	20.0
Bromomethane	Ave	0.2173	0.1162	0.0500	0.0107	0.0200	-46.5*	20.0
Chloroethane	Ave	0.1802	0.1728	0.0500	0.0192	0.0200	-4.1	20.0
Dichlorofluoromethane	Ave	0.3832	0.3796		0.0198	0.0200	-0.9	20.0
Trichlorofluoromethane	Ave	0.3386	0.3462	0.1000	0.0205	0.0200	2.3	20.0
Ethyl ether	Ave	0.1595	0.1475		0.0185	0.0200	-7.6	20.0
Acrolein	Ave	0.0119	0.0145		0.121	0.100	21.2*	20.0
1,1-Dichloroethene	Ave	0.2049	0.1720	0.1000	0.0168	0.0200	-16.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.1598	0.0500	0.0198	0.0200	-1.1	20.0
Acetone	Ave	0.0178	0.0180	0.0100	0.0404	0.0400	1.0	50.0
Iodomethane	Ave	0.3163	0.0845		0.00534	0.0200	-73.3*	20.0
Carbon disulfide	Ave	0.6609	0.5593	0.1000	0.0169	0.0200	-15.4	20.0
Methyl acetate	Ave	0.1238	0.1314	0.1000	0.0424	0.0400	6.1	50.0
3-Chloro-1-propene	Ave	0.2690	0.2538		0.0189	0.0200	-5.6	20.0
Methylene Chloride	Ave	0.2433	0.2030	0.1000	0.0167	0.0200	-16.5	50.0
tert-Butyl alcohol	Ave	0.0158	0.0171		0.217	0.200	8.4	20.0
Acrylonitrile	Ave	0.0732	0.0762		0.208	0.200	4.1	20.0
Methyl tert-butyl ether	Ave	0.5668	0.5453	0.1000	0.0192	0.0200	-3.8	20.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2071	0.1000	0.0171	0.0200	-14.6	20.0
Hexane	Ave	0.2648	0.2916		0.0220	0.0200	10.1	20.0
1,1-Dichloroethane	Ave	0.3751	0.3429	0.2000	0.0183	0.0200	-8.6	20.0
Vinyl acetate	Lin1		0.3111		0.0193	0.0200	-3.5	20.0
2-Butanone	Lin1		0.0233	0.0100	0.0395	0.0400	-1.3	50.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2211	0.1000	0.0171	0.0200	-14.6	20.0
2,2-Dichloropropane	Ave	0.3219	0.2933		0.0182	0.0200	-8.9	20.0
Bromochloromethane	Ave	0.1223	0.1059		0.0173	0.0200	-13.4	20.0
Tetrahydrofuran	Ave	0.0470	0.0520		0.0442	0.0400	10.5	20.0
Chloroform	Ave	0.3871	0.3393	0.2000	0.0175	0.0200	-12.4	20.0
1,1,1-Trichloroethane	Ave	0.3419	0.2973	0.1000	0.0174	0.0200	-13.0	20.0
Cyclohexane	Ave	0.3195	0.3264	0.1000	0.0204	0.0200	2.1	20.0
1,1-Dichloropropene	Ave	0.3034	0.2796		0.0184	0.0200	-7.8	20.0
Carbon tetrachloride	Ave	0.3037	0.2544	0.1000	0.0168	0.0200	-16.2	20.0
Isobutyl alcohol	Lin1		0.0055		0.566	0.500	13.2	20.0
Benzene	Ave	0.9186	0.8384	0.5000	0.0183	0.0200	-8.7	20.0
1,2-Dichloroethane	Ave	0.2786	0.2596	0.1000	0.0186	0.0200	-6.8	20.0
n-Heptane	Lin1		0.1874		0.0216	0.0200	8.1	20.0
Trichloroethene	Ave	0.2729	0.2286	0.1500	0.0168	0.0200	-16.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453487/5 Calibration Date: 09/29/2020 10:12

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31388.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.3742	0.1000	0.0199	0.0200	-0.6	20.0
1,2-Dichloropropane	Ave	0.2086	0.1951	0.1000	0.0187	0.0200	-6.5	20.0
1,4-Dioxane	Ave	0.0025	0.0025		0.402	0.400	0.6	50.0
Dibromomethane	Ave	0.1316	0.1164		0.0177	0.0200	-11.5	20.0
Bromodichloromethane	Ave	0.2770	0.2411	0.1500	0.0174	0.0200	-12.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1228		0.0381	0.0400	-4.8	20.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3142	0.1500	0.0185	0.0200	-7.6	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1475	0.0500	0.0420	0.0400	5.0	50.0
Toluene	Ave	1.254	1.143	0.4000	0.0182	0.0200	-8.9	20.0
trans-1,3-Dichloropropene	Ave	0.3909	0.3710	0.1000	0.0190	0.0200	-5.1	20.0
Ethyl methacrylate	Ave	0.2932	0.2798		0.0191	0.0200	-4.5	20.0
1,1,2-Trichloroethane	Ave	0.2394	0.2230	0.1000	0.0186	0.0200	-6.9	20.0
Tetrachloroethene	Ave	0.2814	0.2534	0.1500	0.0180	0.0200	-9.9	20.0
1,3-Dichloropropane	Ave	0.4145	0.3963		0.0191	0.0200	-4.4	20.0
2-Hexanone	Ave	0.1247	0.1324	0.0500	0.0425	0.0400	6.2	50.0
Dibromochloromethane	Ave	0.2667	0.2312		0.0173	0.0200	-13.3	20.0
1,2-Dibromoethane	Ave	0.2447	0.2248		0.0184	0.0200	-8.1	20.0
Chlorobenzene	Ave	0.8600	0.7558	0.3000	0.0176	0.0200	-12.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2542		0.0179	0.0200	-10.7	20.0
Ethylbenzene	Ave	0.4675	0.4189		0.0179	0.0200	-10.4	20.0
m-Xylene & p-Xylene	Ave	0.5742	0.5183		0.0181	0.0200	-9.7	20.0
o-Xylene	Ave	0.5485	0.4872		0.0178	0.0200	-11.2	20.0
Styrene	Ave	0.9033	0.8158	0.3000	0.0181	0.0200	-9.7	20.0
Bromoform	Ave	0.1818	0.1504	0.1000	0.0166	0.0200	-17.2	20.0
Isopropylbenzene	Ave	1.400	1.267	0.1000	0.0181	0.0200	-9.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.4796	0.3000	0.0188	0.0200	-6.0	20.0
Bromobenzene	Ave	0.6625	0.5709		0.0172	0.0200	-13.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1405		0.0193	0.0200	-3.7	20.0
1,2,3-Trichloropropane	Ave	0.1803	0.1673		0.0186	0.0200	-7.2	20.0
n-Propylbenzene	Ave	0.7465	0.6551		0.0176	0.0200	-12.2	20.0
2-Chlorotoluene	Ave	0.6294	0.5372		0.0171	0.0200	-14.7	20.0
1,3,5-Trimethylbenzene	Ave	2.020	1.808		0.0179	0.0200	-10.5	20.0
4-Chlorotoluene	Ave	0.6506	0.5709		0.0175	0.0200	-12.3	20.0
tert-Butylbenzene	Ave	1.852	1.631		0.0176	0.0200	-11.9	20.0
1,2,4-Trimethylbenzene	Ave	1.990	1.799		0.0181	0.0200	-9.6	20.0
sec-Butylbenzene	Ave	2.659	2.420		0.0182	0.0200	-9.0	20.0
1,3-Dichlorobenzene	Ave	1.270	1.077	0.6000	0.0170	0.0200	-15.2	20.0
p-Isopropyltoluene	Ave	2.297	2.071		0.0180	0.0200	-9.8	20.0
1,4-Dichlorobenzene	Ave	1.281	1.087	0.5000	0.0170	0.0200	-15.1	20.0
n-Butylbenzene	Ave	1.953	1.809		0.0185	0.0200	-7.4	20.0
1,2-Dichlorobenzene	Ave	1.174	1.028	0.4000	0.0175	0.0200	-12.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453487/5 Calibration Date: 09/29/2020 10:12

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31388.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1024	0.0500	0.0177	0.0200	-11.5	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6085	0.2000	0.0182	0.0200	-9.2	50.0
Hexachlorobutadiene	Ave	0.3403	0.3306		0.0194	0.0200	-2.8	50.0
Naphthalene	Ave	1.500	1.333		0.0178	0.0200	-11.1	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5379		0.0179	0.0200	-10.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.1997		0.0228	0.0249	-8.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2283		0.0241	0.0249	-3.2	20.0
Toluene-d8 (Surr)	Ave	1.075	1.056		0.0245	0.0249	-1.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.3978		0.0255	0.0249	2.5	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453487/9

Matrix: Water Lab File ID: UXM31392.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453487/9

Matrix: Water Lab File ID: UXM31392.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453487/9

Matrix: Water Lab File ID: UXM31392.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	98		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453487/9

Matrix: Water Lab File ID: UXM31392.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

Number TICs Found: 1 TIC Result Total: 4.29

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.54	4.29	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453571/8

Matrix: Water Lab File ID: U1280881a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453571/8

Matrix: Water Lab File ID: U1280881a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453571/8

Matrix: Water Lab File ID: U1280881a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453571/8

Matrix: Water Lab File ID: U1280881a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453771/8

Matrix: Water Lab File ID: U1280907.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 18:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453771/8

Matrix: Water Lab File ID: U1280907.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 18:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453771/8

Matrix: Water Lab File ID: U1280907.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 18:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453771/8

Matrix: Water Lab File ID: U1280907.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 18:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Start Date: 04/30/2019 13:47

Analysis Batch Number: 378870 End Date: 04/30/2019 21:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-378870/1		04/30/2019 13:47	1	BFB4108.D	DB-624 0.18(mm)
STD8260 240-378870/8 IC		04/30/2019 14:10	1	U1269795.D	DB-624 0.18(mm)
STD8260 240-378870/9 IC		04/30/2019 14:33	1	U1269796.D	DB-624 0.18(mm)
STD8260 240-378870/10 IC		04/30/2019 14:55	1	U1269797.D	DB-624 0.18(mm)
ICIS 240-378870/11		04/30/2019 15:17	1	U1269798.D	DB-624 0.18(mm)
STD8260 240-378870/12 IC		04/30/2019 15:39	1	U1269799.D	DB-624 0.18(mm)
STD8260 240-378870/13 IC		04/30/2019 16:02	1	U1269800.D	DB-624 0.18(mm)
STD8260 240-378870/14 IC		04/30/2019 16:24	1	U1269801.D	DB-624 0.18(mm)
ICV 240-378870/15		04/30/2019 16:46	1		DB-624 0.18(mm)
MRL 240-378870/16 MDLV		04/30/2019 17:09	1		DB-624 0.18(mm)
STDA9 240-378870/18 IC		04/30/2019 17:52	1	U1269805.D	DB-624 0.18(mm)
STDA9 240-378870/19 IC		04/30/2019 18:14	1	U1269806a.D	DB-624 0.18(mm)
STDA9 240-378870/20 IC		04/30/2019 18:37	1	U1269807.D	DB-624 0.18(mm)
STDA9 240-378870/21 IC		04/30/2019 18:59	1	U1269808.D	DB-624 0.18(mm)
STDA9 240-378870/22 IC		04/30/2019 19:21	1	U1269809.D	DB-624 0.18(mm)
STDA9 240-378870/23 IC		04/30/2019 19:43	1	U1269810.D	DB-624 0.18(mm)
STDA9 240-378870/24 IC		04/30/2019 20:05	1	U1269811.D	DB-624 0.18(mm)
ICV 240-378870/25		04/30/2019 20:27	1	U1269812.D	DB-624 0.18(mm)
MRL 240-378870/26 MDLV		04/30/2019 20:50	1		DB-624 0.18(mm)
ZZZZZ		04/30/2019 21:12	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Start Date: 07/16/2020 16:09

Analysis Batch Number: 442963 End Date: 07/16/2020 21:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-442963/1		07/16/2020 16:09	1	BFB4436a.D	DB-624 0.18(mm)
STD8260 240-442963/9 IC		07/16/2020 17:43	1	U1279113.D	DB-624 0.18(mm)
STD8260 240-442963/10 IC		07/16/2020 18:05	1	U1279114.D	DB-624 0.18(mm)
STD8260 240-442963/11 IC		07/16/2020 18:27	1	U1279115.D	DB-624 0.18(mm)
STD8260 240-442963/12 IC		07/16/2020 18:50	1	U1279116.D	DB-624 0.18(mm)
ICIS 240-442963/13		07/16/2020 19:12	1	U1279117.D	DB-624 0.18(mm)
STD8260 240-442963/14 IC		07/16/2020 19:35	1	U1279118.D	DB-624 0.18(mm)
STD8260 240-442963/15 IC		07/16/2020 19:57	1	U1279119.D	DB-624 0.18(mm)
STD8260 240-442963/16 IC		07/16/2020 20:20	1	U1279120.D	DB-624 0.18(mm)
ICV 240-442963/17		07/16/2020 20:43	1	U1279121.D	DB-624 0.18(mm)
MDLV 240-442963/18		07/16/2020 21:05	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Start Date: 09/29/2020 17:06

Analysis Batch Number: 453571 End Date: 09/30/2020 02:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-453571/1		09/29/2020 17:06	1	BFB4496.D	DB-624 0.18(mm)
CCV 240-453571/3		09/29/2020 17:28	1	U1280876a.D	DB-624 0.18(mm)
CCVIS 240-453571/4		09/29/2020 17:51	1	U1280877.D	DB-624 0.18(mm)
LCS 240-453571/5		09/29/2020 18:13	1	U1280878.D	DB-624 0.18(mm)
MRL 240-453571/6 MDLV		09/29/2020 18:36	1		DB-624 0.18(mm)
MB 240-453571/8		09/29/2020 19:21	1	U1280881a.D	DB-624 0.18(mm)
240-136984-14	MSA-SW41B-092220	09/29/2020 19:43	1	U1280882a.D	DB-624 0.18(mm)
240-136984-15	MSA-SW41C-092220	09/29/2020 20:06	1	U1280883.D	DB-624 0.18(mm)
240-136984-16	MSA-SW41D-092220	09/29/2020 20:29	1	U1280884a.D	DB-624 0.18(mm)
240-136984-17	MSA-SW42A-092220	09/29/2020 20:51	1	U1280885.D	DB-624 0.18(mm)
240-136984-18	MSA-SW42B-092220	09/29/2020 21:14	1	U1280886.D	DB-624 0.18(mm)
240-136984-19	MSA-SW42C-092220	09/29/2020 21:36	1	U1280887.D	DB-624 0.18(mm)
240-136984-20	MSA-SW42D-092220	09/29/2020 21:58	1	U1280888a.D	DB-624 0.18(mm)
240-136984-21	MSA-SW43A-092220	09/29/2020 22:20	1	U1280889.D	DB-624 0.18(mm)
240-136984-22	MSA-SW43B-092220	09/29/2020 22:43	1	U1280890.D	DB-624 0.18(mm)
240-136984-23	MSA-SW43C-092220	09/29/2020 23:06	1	U1280891.D	DB-624 0.18(mm)
240-136984-24	MSA-SW43D-092220	09/29/2020 23:28	1	U1280892a.D	DB-624 0.18(mm)
240-136984-25	MSA-SW44A-092220	09/29/2020 23:50	1	U1280893.D	DB-624 0.18(mm)
240-136984-26	MSA-SW44B-092220	09/30/2020 00:13	1	U1280894.D	DB-624 0.18(mm)
240-136984-27	MSA-SW44C-092220	09/30/2020 00:36	1	U1280895.D	DB-624 0.18(mm)
240-136984-28	MSA-SW44D-092220	09/30/2020 00:58	1	U1280896a.D	DB-624 0.18(mm)
240-136984-29	TB-092220	09/30/2020 01:20	1	U1280897.D	DB-624 0.18(mm)
240-136984-30	MSA-SW46A-092220	09/30/2020 01:43	1	U1280898.D	DB-624 0.18(mm)
240-136984-31	MSA-SW47A-092220	09/30/2020 02:05	1	U1280899.D	DB-624 0.18(mm)
240-136984-32	MSA-SW48A-092220	09/30/2020 02:27	1	U1280900.D	DB-624 0.18(mm)
240-136984-33	MSA-SW49A-092220	09/30/2020 02:50	1	U1280901.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Start Date: 09/30/2020 16:06

Analysis Batch Number: 453771 End Date: 10/01/2020 03:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-453771/1		09/30/2020 16:06	1	BFB4497.D	DB-624 0.18(mm)
CCV 240-453771/3		09/30/2020 16:29	1	U1280902a.D	DB-624 0.18(mm)
CCVIS 240-453771/4		09/30/2020 16:51	1	U1280903.D	DB-624 0.18(mm)
LCS 240-453771/5		09/30/2020 17:14	1	U1280904a.D	DB-624 0.18(mm)
MRL 240-453771/6 MDLV		09/30/2020 17:36	1		DB-624 0.18(mm)
MRL 240-453771/7 MDLV		09/30/2020 17:59	1		DB-624 0.18(mm)
MB 240-453771/8		09/30/2020 18:21	1	U1280907.D	DB-624 0.18(mm)
240-136984-4	MSA-SW37D-092220	09/30/2020 23:58	1	U1280922b.D	DB-624 0.18(mm)
240-136984-5	MSA-SW38A-092220	10/01/2020 00:21	1	U1280923.D	DB-624 0.18(mm)
240-136984-6	MSA-SW38B-092220	10/01/2020 00:44	1	U1280924b.D	DB-624 0.18(mm)
240-136984-7	MSA-SW38C-092220	10/01/2020 01:06	1	U1280925.D	DB-624 0.18(mm)
240-136984-8	MSA-SW38D-092220	10/01/2020 01:29	1	U1280926b.D	DB-624 0.18(mm)
240-136984-9	MSA-SW40A-092220	10/01/2020 01:51	1	U1280927.D	DB-624 0.18(mm)
240-136984-10	MSA-SW40B-092220	10/01/2020 02:14	1	U1280928b.D	DB-624 0.18(mm)
240-136984-11	MSA-SW40C-092220	10/01/2020 02:37	1	U1280929.D	DB-624 0.18(mm)
240-136984-12	MSA-SW40D-092220	10/01/2020 02:59	1	U1280930b.D	DB-624 0.18(mm)
240-136984-13	MSA-SW41A-092220	10/01/2020 03:22	1	U1280931.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX16 Start Date: 09/08/2020 11:23

Analysis Batch Number: 450378 End Date: 09/08/2020 18:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-450378/1		09/08/2020 11:23	1	BFB6489.D	DB-624 0.18(mm)
STD8260 240-450378/9 IC		09/08/2020 12:22	1	UXM31022.D	DB-624 0.18(mm)
STD8260 240-450378/10 IC		09/08/2020 12:47	1	UXM31023.D	DB-624 0.18(mm)
STD8260 240-450378/11 IC		09/08/2020 13:12	1	UXM31024.D	DB-624 0.18(mm)
ICIS 240-450378/12		09/08/2020 13:36	1	UXM31025.D	DB-624 0.18(mm)
STD8260 240-450378/13 IC		09/08/2020 14:01	1	UXM31026.D	DB-624 0.18(mm)
STD8260 240-450378/14 IC		09/08/2020 14:26	1	UXM31027.D	DB-624 0.18(mm)
STD8260 240-450378/15 IC		09/08/2020 14:50	1	UXM31028.D	DB-624 0.18(mm)
ICV 240-450378/16		09/08/2020 15:15	1	UXM31029.D	DB-624 0.18(mm)
STDA9 240-450378/19 IC		09/08/2020 16:30	1	UXM31032.D	DB-624 0.18(mm)
STDA9 240-450378/20 IC		09/08/2020 16:55	1	UXM31033.D	DB-624 0.18(mm)
STDA9 240-450378/21 IC		09/08/2020 17:19	1	UXM31034.D	DB-624 0.18(mm)
STDA9 240-450378/22 IC		09/08/2020 17:44	1	UXM31035.D	DB-624 0.18(mm)
STDA9 240-450378/23 IC		09/08/2020 18:09	1	UXM31036.D	DB-624 0.18(mm)
STDA9 240-450378/24 IC		09/08/2020 18:33	1	UXM31037.D	DB-624 0.18(mm)
ICV 240-450378/25		09/08/2020 18:58	1	UXM31038.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX16 Start Date: 09/29/2020 09:24

Analysis Batch Number: 453487 End Date: 09/29/2020 20:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-453487/1		09/29/2020 09:24	1	BFB6506.D	DB-624 0.18(mm)
CCV 240-453487/4		09/29/2020 09:47	1	UXM31387.D	DB-624 0.18(mm)
CCVIS 240-453487/5		09/29/2020 10:12	1	UXM31388.D	DB-624 0.18(mm)
LCS 240-453487/6		09/29/2020 10:37	1	UXM31389.D	DB-624 0.18(mm)
MRL 240-453487/7 MDLV		09/29/2020 11:01	1		DB-624 0.18(mm)
MRL 240-453487/8 MDLV		09/29/2020 11:26	1		DB-624 0.18(mm)
MB 240-453487/9		09/29/2020 11:51	1	UXM31392.D	DB-624 0.18(mm)
ZZZZZ		09/29/2020 12:18	5		DB-624 0.18(mm)
ZZZZZ		09/29/2020 12:42	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 13:07	5		DB-624 0.18(mm)
ZZZZZ		09/29/2020 13:32	5		DB-624 0.18(mm)
ZZZZZ		09/29/2020 13:56	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 14:21	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 14:46	4		DB-624 0.18(mm)
ZZZZZ		09/29/2020 15:11	50		DB-624 0.18(mm)
ZZZZZ		09/29/2020 15:36	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 16:00	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 16:25	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 16:50	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 17:14	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 17:39	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 18:04	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 18:29	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 18:53	2		DB-624 0.18(mm)
240-136984-1	MSA-SW37A-092220	09/29/2020 19:18	1	UXM31410.D	DB-624 0.18(mm)
240-136984-2	MSA-SW37B-092220	09/29/2020 19:43	1	UXM31411.D	DB-624 0.18(mm)
240-136984-3	MSA-SW37C-092220	09/29/2020 20:08	1	UXM31412.D	DB-624 0.18(mm)
ZZZZZ		09/29/2020 20:33	1		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 378870 Batch Start Date: 04/30/19 13:47 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00003	vm50ss 00362	vm50ss_stk 00080	vmarolistdw 00294
BFB 240-378870/1		8260C		5 mL	5 mL				
STD8260 240-378870/8 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-378870/9 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-378870/10 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-378870/11		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-378870/12 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-378870/13 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-378870/14 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
STDA9 240-378870/18 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/19 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/24 IC		8260C		5 mL	5 mL	2 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 378870 Batch Start Date: 04/30/19 13:47 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00003	vm50ss 00362	vm50ss_stk 00080	vmarolistdw 00294
ICV 240-378870/25		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00021	VMFASA9W 00228	vmra9w 00295	vmrgas 00291	vmrprimw 00331	
BFB 240-378870/1		8260C		1 uL					
STD8260 240-378870/8 IC		8260C					64 uL	64 uL	
STD8260 240-378870/9 IC		8260C					48 uL	48 uL	
STD8260 240-378870/10 IC		8260C					32 uL	32 uL	
ICIS 240-378870/11		8260C					16 uL	16 uL	
STD8260 240-378870/12 IC		8260C					8 uL	8 uL	
STD8260 240-378870/13 IC		8260C					0.8 uL	0.8 uL	
STD8260 240-378870/14 IC		8260C					0.4 uL	0.4 uL	
STDA9 240-378870/18 IC		8260C				64 uL			
STDA9 240-378870/19 IC		8260C				48 uL			
STDA9 240-378870/20 IC		8260C				32 uL			
STDA9 240-378870/21 IC		8260C				16 uL			
STDA9 240-378870/22 IC		8260C				8 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 378870 Batch Start Date: 04/30/19 13:47 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00021	VMFASA9W 00228	vmra9w 00295	vmrgas 00291	vmrprimw 00331	
STDA9 240-378870/23 IC		8260C				0.8 uL			
STDA9 240-378870/24 IC		8260C				0.4 uL			
ICV 240-378870/25		8260C			16 uL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 442963 Batch Start Date: 07/16/20 16:09 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00006	vm50ss 00410	vm50ss_stk 00085	vmarolistdw 00352
BFB 240-442963/1		8260C		5 mL	5 mL				
STD8260 240-442963/9 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
STD8260 240-442963/10 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-442963/11 IC		8260C		5 mL	5 mL	2 uL	4 uL		4 uL
STD8260 240-442963/12 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
ICIS 240-442963/13		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-442963/14 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
STD8260 240-442963/15 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-442963/16 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
ICV 240-442963/17		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00336	vmfasgw 00367	vmfaspw 00358	VMRGAS 00347	vmrprimw 00394
BFB 240-442963/1		8260C		1 uL					
STD8260 240-442963/9 IC		8260C						0.4 uL	0.4 uL
STD8260 240-442963/10 IC		8260C						0.8 uL	0.8 uL
STD8260 240-442963/11 IC		8260C						4 uL	4 uL
STD8260 240-442963/12 IC		8260C						8 uL	8 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 442963 Batch Start Date: 07/16/20 16:09 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00336	vmfasgw 00367	vmfaspw 00358	VMRGAS 00347	vmrprimw 00394
ICIS 240-442963/13		8260C						16 uL	16 uL
STD8260 240-442963/14 IC		8260C						32 uL	32 uL
STD8260 240-442963/15 IC		8260C						48 uL	48 uL
STD8260 240-442963/16 IC		8260C						64 uL	64 uL
ICV 240-442963/17		8260C			16 uL	16 uL	16 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00007	vm50ss 00417	vm50ss_stk 00085	vmarolistdw 00359
BFB 240-450378/1		8260C		5 mL	5 mL				
STD8260 240-450378/9 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-450378/10 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-450378/11 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-450378/12		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-450378/13 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-450378/14 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-450378/15 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-450378/16		8260C		5 mL	5 mL	2 uL		2 uL	
STDA9 240-450378/19 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/24 IC		8260C		5 mL	5 mL	2 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00007	vm50ss 00417	vm50ss_stk 00085	vmarolistdw 00359
ICV 240-450378/25		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	VMFASA9W 00290	vmfasaw 00342	vmfasgw 00375	vmfaspw 00365	vmra9w 00359
BFB 240-450378/1		8260C		1 uL					
STD8260 240-450378/9 IC		8260C							
STD8260 240-450378/10 IC		8260C							
STD8260 240-450378/11 IC		8260C							
ICIS 240-450378/12		8260C							
STD8260 240-450378/13 IC		8260C							
STD8260 240-450378/14 IC		8260C							
STD8260 240-450378/15 IC		8260C							
ICV 240-450378/16		8260C				16 uL	16 uL	16 uL	
STDA9 240-450378/19 IC		8260C							64 uL
STDA9 240-450378/20 IC		8260C							32 uL
STDA9 240-450378/21 IC		8260C							16 uL
STDA9 240-450378/22 IC		8260C							8 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	VMFASA9W 00290	vmfasaw 00342	vmfasgw 00375	vmfaspw 00365	vmra9w 00359
STDA9 240-450378/23 IC		8260C							0.8 uL
STDA9 240-450378/24 IC		8260C							0.4 uL
ICV 240-450378/25		8260C			16 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00353	vmrprimw 00402				
BFB 240-450378/1		8260C							
STD8260 240-450378/9 IC		8260C		64 uL	64 uL				
STD8260 240-450378/10 IC		8260C		48 uL	48 uL				
STD8260 240-450378/11 IC		8260C		32 uL	32 uL				
ICIS 240-450378/12		8260C		16 uL	16 uL				
STD8260 240-450378/13 IC		8260C		8 uL	8 uL				
STD8260 240-450378/14 IC		8260C		0.8 uL	0.8 uL				
STD8260 240-450378/15 IC		8260C		0.4 uL	0.4 uL				
ICV 240-450378/16		8260C							
STDA9 240-450378/19 IC		8260C							
STDA9 240-450378/20 IC		8260C							
STDA9 240-450378/21 IC		8260C							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00353	vmrprimw 00402				
STDA9 240-450378/22 IC		8260C							
STDA9 240-450378/23 IC		8260C							
STDA9 240-450378/24 IC		8260C							
ICV 240-450378/25		8260C							

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453487 Batch Start Date: 09/29/20 09:24 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00007	vm50ss_stk 00085	vmarolistdw 00362
BFB 240-453487/1		8260C		5 mL	5 mL				
CCV 240-453487/4		8260C		5 mL	5 mL		2 uL		
CCVIS 240-453487/5		8260C		5 mL	5 mL		2 uL	2.492 uL	16 uL
LCS 240-453487/6		8260C		5 mL	5 mL		2 uL	2.492 uL	
MB 240-453487/9		8260C		5 mL	5 mL		2 uL	2.492 uL	
240-136984-B-1	MSA-SW37A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-136984-B-2	MSA-SW37B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-136984-B-3	MSA-SW37C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00367	vmra9w 00362	vmrgas 00356
BFB 240-453487/1		8260C		1 uL					
CCV 240-453487/4		8260C						16 uL	
CCVIS 240-453487/5		8260C							16 uL
LCS 240-453487/6		8260C			16 uL	16 uL	16 uL		
MB 240-453487/9		8260C							
240-136984-B-1	MSA-SW37A-092220	8260C	T						
240-136984-B-2	MSA-SW37B-092220	8260C	T						
240-136984-B-3	MSA-SW37C-092220	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
BFB 240-453487/1		8260C							
CCV 240-453487/4		8260C							
CCVIS 240-453487/5		8260C		16 uL					
LCS 240-453487/6		8260C							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453487 Batch Start Date: 09/29/20 09:24 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
MB 240-453487/9		8260C							
240-136984-B-1	MSA-SW37A-092220	8260C	T						
240-136984-B-2	MSA-SW37B-092220	8260C	T						
240-136984-B-3	MSA-SW37C-092220	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453571 Batch Start Date: 09/29/20 17:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00007	vm50ss_stk 00085	vmarolistdw 00362
BFB 240-453571/1		8260C		5 mL	5 mL				
CCV 240-453571/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-453571/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-453571/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-453571/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-136984-B-14	MSA-SW41B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-15	MSA-SW41C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-16	MSA-SW41D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-17	MSA-SW42A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-18	MSA-SW42B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-19	MSA-SW42C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-20	MSA-SW42D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-21	MSA-SW43A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-22	MSA-SW43B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-23	MSA-SW43C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-24	MSA-SW43D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-C-25	MSA-SW44A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-26	MSA-SW44B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-27	MSA-SW44C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-28	MSA-SW44D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-29	TB-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-30	MSA-SW46A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-31	MSA-SW47A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-32	MSA-SW48A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-33	MSA-SW49A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00367	vmra9w 00362	vmrgas 00356
BFB 240-453571/1		8260C		1 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453571 Batch Start Date: 09/29/20 17:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00367	vmra9w 00362	vmrgas 00356
CCV 240-453571/3		8260C						16 uL	
CCVIS 240-453571/4		8260C							16 uL
LCS 240-453571/5		8260C			16 uL	16 uL	16 uL		
MB 240-453571/8		8260C							
240-136984-B-14	MSA-SW41B-092220	8260C	T						
240-136984-B-15	MSA-SW41C-092220	8260C	T						
240-136984-B-16	MSA-SW41D-092220	8260C	T						
240-136984-B-17	MSA-SW42A-092220	8260C	T						
240-136984-B-18	MSA-SW42B-092220	8260C	T						
240-136984-B-19	MSA-SW42C-092220	8260C	T						
240-136984-B-20	MSA-SW42D-092220	8260C	T						
240-136984-B-21	MSA-SW43A-092220	8260C	T						
240-136984-A-22	MSA-SW43B-092220	8260C	T						
240-136984-A-23	MSA-SW43C-092220	8260C	T						
240-136984-A-24	MSA-SW43D-092220	8260C	T						
240-136984-C-25	MSA-SW44A-092220	8260C	T						
240-136984-B-26	MSA-SW44B-092220	8260C	T						
240-136984-A-27	MSA-SW44C-092220	8260C	T						
240-136984-B-28	MSA-SW44D-092220	8260C	T						
240-136984-B-29	TB-092220	8260C	T						
240-136984-B-30	MSA-SW46A-092220	8260C	T						
240-136984-A-31	MSA-SW47A-092220	8260C	T						
240-136984-A-32	MSA-SW48A-092220	8260C	T						
240-136984-A-33	MSA-SW49A-092220	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
BFB 240-453571/1		8260C							
CCV 240-453571/3		8260C							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453571 Batch Start Date: 09/29/20 17:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
CCVIS 240-453571/4		8260C		16 uL					
LCS 240-453571/5		8260C							
MB 240-453571/8		8260C							
240-136984-B-14	MSA-SW41B-092220	8260C	T						
240-136984-B-15	MSA-SW41C-092220	8260C	T						
240-136984-B-16	MSA-SW41D-092220	8260C	T						
240-136984-B-17	MSA-SW42A-092220	8260C	T						
240-136984-B-18	MSA-SW42B-092220	8260C	T						
240-136984-B-19	MSA-SW42C-092220	8260C	T						
240-136984-B-20	MSA-SW42D-092220	8260C	T						
240-136984-B-21	MSA-SW43A-092220	8260C	T						
240-136984-A-22	MSA-SW43B-092220	8260C	T						
240-136984-A-23	MSA-SW43C-092220	8260C	T						
240-136984-A-24	MSA-SW43D-092220	8260C	T						
240-136984-C-25	MSA-SW44A-092220	8260C	T						
240-136984-B-26	MSA-SW44B-092220	8260C	T						
240-136984-A-27	MSA-SW44C-092220	8260C	T						
240-136984-B-28	MSA-SW44D-092220	8260C	T						
240-136984-B-29	TB-092220	8260C	T						
240-136984-B-30	MSA-SW46A-092220	8260C	T						
240-136984-A-31	MSA-SW47A-092220	8260C	T						
240-136984-A-32	MSA-SW48A-092220	8260C	T						
240-136984-A-33	MSA-SW49A-092220	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453771 Batch Start Date: 09/30/20 16:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00007	vm50ss_stk 00085	vmarolistdw 00362
BFB 240-453771/1		8260C		5 mL	5 mL				
CCV 240-453771/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-453771/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-453771/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-453771/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-136984-B-4	MSA-SW37D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-5	MSA-SW38A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-6	MSA-SW38B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-7	MSA-SW38C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-8	MSA-SW38D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-9	MSA-SW40A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-10	MSA-SW40B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-11	MSA-SW40C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-12	MSA-SW40D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-13	MSA-SW41A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00368	vmra9w 00362	vmrgas 00356
BFB 240-453771/1		8260C		1 uL					
CCV 240-453771/3		8260C						16 uL	
CCVIS 240-453771/4		8260C							16 uL
LCS 240-453771/5		8260C			16 uL	16 uL	16 uL		
MB 240-453771/8		8260C							
240-136984-B-4	MSA-SW37D-092220	8260C	T						
240-136984-A-5	MSA-SW38A-092220	8260C	T						
240-136984-B-6	MSA-SW38B-092220	8260C	T						
240-136984-B-7	MSA-SW38C-092220	8260C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453771 Batch Start Date: 09/30/20 16:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00368	vmra9w 00362	vmrgas 00356
240-136984-B-8	MSA-SW38D-092220	8260C	T						
240-136984-B-9	MSA-SW40A-092220	8260C	T						
240-136984-B-10	MSA-SW40B-092220	8260C	T						
240-136984-A-11	MSA-SW40C-092220	8260C	T						
240-136984-B-12	MSA-SW40D-092220	8260C	T						
240-136984-B-13	MSA-SW41A-092220	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
BFB 240-453771/1		8260C							
CCV 240-453771/3		8260C							
CCVIS 240-453771/4		8260C		16 uL					
LCS 240-453771/5		8260C							
MB 240-453771/8		8260C							
240-136984-B-4	MSA-SW37D-092220	8260C	T						
240-136984-A-5	MSA-SW38A-092220	8260C	T						
240-136984-B-6	MSA-SW38B-092220	8260C	T						
240-136984-B-7	MSA-SW38C-092220	8260C	T						
240-136984-B-8	MSA-SW38D-092220	8260C	T						
240-136984-B-9	MSA-SW40A-092220	8260C	T						
240-136984-B-10	MSA-SW40B-092220	8260C	T						
240-136984-A-11	MSA-SW40C-092220	8260C	T						
240-136984-B-12	MSA-SW40D-092220	8260C	T						
240-136984-B-13	MSA-SW41A-092220	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453771 Batch Start Date: 09/30/20 16:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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ANALYTICAL REPORT

Job Number: 240-136984-1

SDG Number: MSA FMC

Job Description: MSA Surface Water

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Josh Mullis

Roxanne Cisneros

Approved for release.
Roxanne Cisneros
Senior Project Manager
10/8/2020 11:47 AM

Roxanne Cisneros, Senior Project Manager
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10/08/2020

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MSA Surface Water

Report Number: 240-136984-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 9/23/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MSA-SW37A-092220 (240-136984-1), MSA-SW37B-092220 (240-136984-2), MSA-SW37C-092220 (240-136984-3), MSA-SW37D-092220 (240-136984-4), MSA-SW38A-092220 (240-136984-5), MSA-SW38B-092220 (240-136984-6), MSA-SW38C-092220 (240-136984-7), MSA-SW38D-092220 (240-136984-8), MSA-SW40A-092220 (240-136984-9), MSA-SW40B-092220 (240-136984-10), MSA-SW40C-092220 (240-136984-11), MSA-SW40D-092220 (240-136984-12), MSA-SW41A-092220 (240-136984-13), MSA-SW41B-092220 (240-136984-14), MSA-SW41C-092220 (240-136984-15), MSA-SW41D-092220 (240-136984-16), MSA-SW42A-092220 (240-136984-17), MSA-SW42B-092220 (240-136984-18), MSA-SW42C-092220 (240-136984-19), MSA-SW42D-092220 (240-136984-20), MSA-SW43A-092220 (240-136984-21), MSA-SW43B-092220 (240-136984-22), MSA-SW43C-092220 (240-136984-23), MSA-SW43D-092220 (240-136984-24), MSA-SW44A-092220 (240-136984-25), MSA-SW44B-092220 (240-136984-26), MSA-SW44C-092220 (240-136984-27), MSA-SW44D-092220 (240-136984-28), TB-092220 (240-136984-29), MSA-SW46A-092220 (240-136984-30), MSA-SW47A-092220 (240-136984-31), MSA-SW48A-092220 (240-136984-32) and MSA-SW49A-092220 (240-136984-33) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 09/29/2020, 09/30/2020 and 10/01/2020.

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37A-092220 (240-136984-1), MSA-SW37B-092220 (240-136984-2) and MSA-SW37C-092220 (240-136984-3). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-453487 was outside the method criteria for the following analyte(s): Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. MSA-SW37A-092220 (240-136984-1), MSA-SW37B-092220 (240-136984-2), MSA-SW37C-092220 (240-136984-3) and (CCVIS 240-453487/5)

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-453571 was outside the method criteria for 2-methyl-2-propanol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be

acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37D-092220 (240-136984-4), MSA-SW38A-092220 (240-136984-5), MSA-SW38B-092220 (240-136984-6), MSA-SW38C-092220 (240-136984-7), MSA-SW38D-092220 (240-136984-8), MSA-SW40A-092220 (240-136984-9), MSA-SW40B-092220 (240-136984-10), MSA-SW40C-092220 (240-136984-11), MSA-SW40D-092220 (240-136984-12), MSA-SW41A-092220 (240-136984-13), MSA-SW41B-092220 (240-136984-14), MSA-SW41C-092220 (240-136984-15), MSA-SW41D-092220 (240-136984-16), MSA-SW42A-092220 (240-136984-17), MSA-SW42B-092220 (240-136984-18), MSA-SW42C-092220 (240-136984-19), MSA-SW42D-092220 (240-136984-20), MSA-SW43A-092220 (240-136984-21), MSA-SW43B-092220 (240-136984-22), MSA-SW43C-092220 (240-136984-23), MSA-SW43D-092220 (240-136984-24), MSA-SW44A-092220 (240-136984-25), MSA-SW44B-092220 (240-136984-26), MSA-SW44C-092220 (240-136984-27), MSA-SW44D-092220 (240-136984-28), TB-092220 (240-136984-29), MSA-SW46A-092220 (240-136984-30), MSA-SW47A-092220 (240-136984-31), MSA-SW48A-092220 (240-136984-32) and MSA-SW49A-092220 (240-136984-33). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-453571.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-453771.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Client Sample ID: MSA-SW37A-092220 — Lab Sample ID: 240-136984-1

No Detections.

Client Sample ID: MSA-SW37B-092220 — Lab Sample ID: 240-136984-2

No Detections.

Client Sample ID: MSA-SW37C-092220 — Lab Sample ID: 240-136984-3

No Detections.

Client Sample ID: MSA-SW37D-092220 — Lab Sample ID: 240-136984-4

No Detections.

Client Sample ID: MSA-SW38A-092220 — Lab Sample ID: 240-136984-5

No Detections.

Client Sample ID: MSA-SW38B-092220 — Lab Sample ID: 240-136984-6

No Detections.

Client Sample ID: MSA-SW38C-092220 — Lab Sample ID: 240-136984-7

No Detections.

Client Sample ID: MSA-SW38D-092220 — Lab Sample ID: 240-136984-8

No Detections.

Client Sample ID: MSA-SW40A-092220 — Lab Sample ID: 240-136984-9

No Detections.

Client Sample ID: MSA-SW40B-092220 — Lab Sample ID: 240-136984-10

No Detections.

Client Sample ID: MSA-SW40C-092220 — Lab Sample ID: 240-136984-11

No Detections.

Client Sample ID: MSA-SW40D-092220 — Lab Sample ID: 240-136984-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.16	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.18	J	1.0	0.14	ug/L	1		8260C	Total/NA
Xylenes, Total	0.16	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW41A-092220 — Lab Sample ID: 240-136984-13

No Detections.

Client Sample ID: MSA-SW41B-092220 — Lab Sample ID: 240-136984-14

No Detections.

Client Sample ID: MSA-SW41C-092220 — Lab Sample ID: 240-136984-15

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Client Sample ID: MSA-SW41D-092220 — Lab Sample ID: 240-136984-16

No Detections.

Client Sample ID: MSA-SW42A-092220 — Lab Sample ID: 240-136984-17

No Detections.

Client Sample ID: MSA-SW42B-092220 — Lab Sample ID: 240-136984-18

No Detections.

Client Sample ID: MSA-SW42C-092220 — Lab Sample ID: 240-136984-19

No Detections.

Client Sample ID: MSA-SW42D-092220 — Lab Sample ID: 240-136984-20

No Detections.

Client Sample ID: MSA-SW43A-092220 — Lab Sample ID: 240-136984-21

No Detections.

Client Sample ID: MSA-SW43B-092220 — Lab Sample ID: 240-136984-22

No Detections.

Client Sample ID: MSA-SW43C-092220 — Lab Sample ID: 240-136984-23

No Detections.

Client Sample ID: MSA-SW43D-092220 — Lab Sample ID: 240-136984-24

No Detections.

Client Sample ID: MSA-SW44A-092220 — Lab Sample ID: 240-136984-25

No Detections.

Client Sample ID: MSA-SW44B-092220 — Lab Sample ID: 240-136984-26

No Detections.

Client Sample ID: MSA-SW44C-092220 — Lab Sample ID: 240-136984-27

No Detections.

Client Sample ID: MSA-SW44D-092220 — Lab Sample ID: 240-136984-28

No Detections.

Client Sample ID: TB-092220 — Lab Sample ID: 240-136984-29

No Detections.

Client Sample ID: MSA-SW46A-092220 — Lab Sample ID: 240-136984-30

No Detections.

Client Sample ID: MSA-SW47A-092220 — Lab Sample ID: 240-136984-31

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Client Sample ID: MSA-SW48A-092220 — Lab Sample ID: 240-136984-32

No Detections.

Client Sample ID: MSA-SW49A-092220 — Lab Sample ID: 240-136984-33

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MSA-SW37A-092220

Date Collected: 09/22/20 10:33
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 19:18	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 19:18	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 19:18	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 19:18	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 19:18	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 19:18	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 19:18	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 19:18	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 19:18	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 19:18	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:18	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 19:18	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 19:18	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 19:18	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 19:18	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 19:18	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 19:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 19:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 19:18	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 19:18	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 19:18	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 19:18	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 19:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 19:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 19:18	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 19:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 19:18	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 19:18	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 19:18	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 19:18	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 19:18	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 19:18	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 19:18	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 19:18	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 19:18	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 19:18	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 19:18	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 19:18	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 19:18	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 19:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 19:18	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 19:18	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 19:18	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:18	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:18	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 19:18	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 19:18	1

Client Sample ID: MSA-SW37A-092220

Date Collected: 09/22/20 10:33
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 19:18	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 19:18	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 19:18	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 19:18	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:18	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 19:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 19:18	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 19:18	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 19:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 19:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 19:18	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 19:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 19:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 19:18	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 19:18	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 19:18	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 19:18	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 19:18	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 19:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 19:18	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 19:18	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 19:18	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 19:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 19:18*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 19:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*		*09/29/20 19:18*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*09/29/20 19:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 130*		*09/29/20 19:18*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*09/29/20 19:18*	*1*

Client Sample ID: MSA-SW37B-092220

Date Collected: 09/22/20 10:36
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 19:43	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 19:43	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 19:43	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 19:43	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 19:43	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 19:43	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 19:43	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 19:43	1

Client Sample ID: MSA-SW37B-092220

Date Collected: 09/22/20 10:36
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 19:43	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 19:43	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 19:43	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 19:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 19:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 19:43	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 19:43	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 19:43	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 19:43	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 19:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 19:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 19:43	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 19:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 19:43	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 19:43	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 19:43	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 19:43	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 19:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 19:43	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 19:43	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 19:43	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 19:43	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 19:43	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 19:43	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 19:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 19:43	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 19:43	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 19:43	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 19:43	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 19:43	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 19:43	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 19:43	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 19:43	1

Client Sample ID: MSA-SW37B-092220

Lab Sample ID: 240-136984-2

Date Collected: 09/22/20 10:36
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 19:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 19:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 19:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 19:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 19:43	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 19:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 19:43	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 19:43	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 19:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 19:43	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 19:43	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 19:43	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 19:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 19:43*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 19:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*09/29/20 19:43*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*09/29/20 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*09/29/20 19:43*	*1*
Toluene-d8 (Surr)	*92*		*69 - 122*		*09/29/20 19:43*	*1*

Client Sample ID: MSA-SW37C-092220

Lab Sample ID: 240-136984-3

Date Collected: 09/22/20 10:39
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 20:08	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 20:08	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 20:08	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 20:08	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 20:08	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 20:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 20:08	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 20:08	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 20:08	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 20:08	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:08	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 20:08	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 20:08	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 20:08	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 20:08	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 20:08	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 20:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 20:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 20:08	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 20:08	1

Client Sample ID: MSA-SW37C-092220

Date Collected: 09/22/20 10:39
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 20:08	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 20:08	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 20:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 20:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 20:08	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 20:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 20:08	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 20:08	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 20:08	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 20:08	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 20:08	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 20:08	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 20:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 20:08	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 20:08	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 20:08	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 20:08	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 20:08	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 20:08	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 20:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 20:08	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 20:08	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 20:08	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:08	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:08	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 20:08	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 20:08	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 20:08	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 20:08	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 20:08	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 20:08	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:08	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 20:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 20:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 20:08	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 20:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 20:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 20:08	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 20:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 20:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 20:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 20:08	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 20:08	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 20:08	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 20:08	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 20:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 20:08	1

Client Sample ID: MSA-SW37C-092220

Lab Sample ID: 240-136984-3

Date Collected: 09/22/20 10:39
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 20:08	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 20:08	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 20:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 20:08*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 20:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*09/29/20 20:08*	*1*
Dibromofluoromethane (Surr)	*96*		*78 - 129*		*09/29/20 20:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*09/29/20 20:08*	*1*
Toluene-d8 (Surr)	*91*		*69 - 122*		*09/29/20 20:08*	*1*

Client Sample ID: MSA-SW37D-092220

Lab Sample ID: 240-136984-4

Date Collected: 09/22/20 10:42
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 23:58	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 23:58	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 23:58	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 23:58	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 23:58	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 23:58	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 23:58	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 23:58	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 23:58	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 23:58	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 23:58	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 23:58	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 23:58	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 23:58	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 23:58	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 23:58	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 23:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 23:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 23:58	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 23:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 23:58	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 23:58	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 23:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 23:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 23:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 23:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 23:58	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 23:58	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 23:58	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 23:58	1

Client Sample ID: MSA-SW37D-092220

Date Collected: 09/22/20 10:42
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 23:58	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 23:58	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 23:58	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 23:58	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 23:58	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 23:58	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 23:58	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 23:58	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 23:58	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 23:58	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 23:58	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 23:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 23:58	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 23:58	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 23:58	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 23:58	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 23:58	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 23:58	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 23:58	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 23:58	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 23:58	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 23:58	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 23:58	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 23:58	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 23:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 23:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 23:58	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 23:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 23:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 23:58	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 23:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 23:58	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 23:58	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 23:58	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 23:58	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 23:58	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 23:58	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 23:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 23:58	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 23:58	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 23:58	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 23:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 23:58*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 23:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*47 - 134*		*09/30/20 23:58*	*1*
Dibromofluoromethane (Surr)	*89*		*78 - 129*		*09/30/20 23:58*	*1*

Client Sample ID: MSA-SW37D-092220

Lab Sample ID: 240-136984-4

Date Collected: 09/22/20 10:42
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*		*09/30/20 23:58*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*09/30/20 23:58*	*1*

Client Sample ID: MSA-SW38A-092220

Lab Sample ID: 240-136984-5

Date Collected: 09/22/20 09:38
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 00:21	1
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 00:21	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 00:21	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 00:21	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 00:21	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 00:21	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 00:21	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 00:21	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 00:21	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 00:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 00:21	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 00:21	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 00:21	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 00:21	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 00:21	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 00:21	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 00:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 00:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 00:21	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 00:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 00:21	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 00:21	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 00:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 00:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 00:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 00:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 00:21	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 00:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 00:21	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 00:21	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 00:21	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 00:21	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 00:21	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 00:21	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 00:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 00:21	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 00:21	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 00:21	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 00:21	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 00:21	1

Client Sample ID: MSA-SW38A-092220

Lab Sample ID: 240-136984-5

Date Collected: 09/22/20 09:38
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 00:21	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 00:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 00:21	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			10/01/20 00:21	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 00:21	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 00:21	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 00:21	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 00:21	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 00:21	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 00:21	1
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 00:21	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 00:21	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 00:21	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 00:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 00:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 00:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 00:21	1
Toluene	1.0	U	1.0	0.14	ug/L			10/01/20 00:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 00:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 00:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 00:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 00:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 00:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 00:21	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 00:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 00:21	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 00:21	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 00:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 00:21	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 00:21	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 00:21	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/01/20 00:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 00:21*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*10/01/20 00:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*47 - 134*		*10/01/20 00:21*	*1*
Dibromofluoromethane (Surr)	*81*		*78 - 129*		*10/01/20 00:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 130*		*10/01/20 00:21*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*10/01/20 00:21*	*1*

Client Sample ID: MSA-SW38B-092220

Lab Sample ID: 240-136984-6

Date Collected: 09/22/20 09:42
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 00:44	1

Client Sample ID: MSA-SW38B-092220

Date Collected: 09/22/20 09:42
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 00:44	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 00:44	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 00:44	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 00:44	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 00:44	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 00:44	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 00:44	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 00:44	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 00:44	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 00:44	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 00:44	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 00:44	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 00:44	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 00:44	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 00:44	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 00:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 00:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 00:44	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 00:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 00:44	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 00:44	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 00:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 00:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 00:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 00:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 00:44	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 00:44	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 00:44	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 00:44	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 00:44	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 00:44	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 00:44	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 00:44	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 00:44	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 00:44	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 00:44	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 00:44	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 00:44	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 00:44	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 00:44	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 00:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 00:44	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			10/01/20 00:44	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 00:44	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 00:44	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 00:44	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 00:44	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 00:44	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 00:44	1

Client Sample ID: MSA-SW38B-092220

Lab Sample ID: 240-136984-6

Date Collected: 09/22/20 09:42
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 00:44	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 00:44	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 00:44	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 00:44	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 00:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 00:44	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 00:44	1
Toluene	1.0	U	1.0	0.14	ug/L			10/01/20 00:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 00:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 00:44	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 00:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 00:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 00:44	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 00:44	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 00:44	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 00:44	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 00:44	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 00:44	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 00:44	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 00:44	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 00:44	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/01/20 00:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 00:44*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*10/01/20 00:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*10/01/20 00:44*	*1*
Dibromofluoromethane (Surr)	*85*		*78 - 129*		*10/01/20 00:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 130*		*10/01/20 00:44*	*1*
Toluene-d8 (Surr)	*101*		*69 - 122*		*10/01/20 00:44*	*1*

Client Sample ID: MSA-SW38C-092220

Lab Sample ID: 240-136984-7

Date Collected: 09/22/20 09:45
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 01:06	1
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 01:06	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 01:06	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 01:06	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 01:06	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 01:06	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 01:06	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 01:06	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 01:06	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 01:06	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:06	1

Client Sample ID: MSA-SW38C-092220

Date Collected: 09/22/20 09:45
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 01:06	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 01:06	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 01:06	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 01:06	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 01:06	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 01:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 01:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 01:06	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 01:06	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 01:06	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 01:06	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 01:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 01:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 01:06	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 01:06	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 01:06	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 01:06	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 01:06	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 01:06	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 01:06	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 01:06	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 01:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 01:06	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 01:06	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 01:06	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 01:06	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 01:06	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 01:06	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 01:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 01:06	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			10/01/20 01:06	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 01:06	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:06	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:06	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 01:06	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 01:06	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 01:06	1
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 01:06	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 01:06	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 01:06	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 01:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 01:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 01:06	1
Toluene	1.0	U	1.0	0.14	ug/L			10/01/20 01:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 01:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 01:06	1

Client Sample ID: MSA-SW38C-092220

Lab Sample ID: 240-136984-7

Date Collected: 09/22/20 09:45
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 01:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 01:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 01:06	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 01:06	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 01:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 01:06	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 01:06	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 01:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 01:06	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 01:06	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 01:06	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/01/20 01:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 01:06*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*10/01/20 01:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*10/01/20 01:06*	*1*
Dibromofluoromethane (Surr)	*88*		*78 - 129*		*10/01/20 01:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*		*10/01/20 01:06*	*1*
Toluene-d8 (Surr)	*100*		*69 - 122*		*10/01/20 01:06*	*1*

Client Sample ID: MSA-SW38D-092220

Lab Sample ID: 240-136984-8

Date Collected: 09/22/20 09:48
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 01:29	1
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 01:29	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 01:29	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 01:29	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 01:29	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 01:29	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 01:29	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 01:29	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 01:29	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 01:29	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:29	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 01:29	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 01:29	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 01:29	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 01:29	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 01:29	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 01:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 01:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 01:29	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 01:29	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 01:29	1

Client Sample ID: MSA-SW38D-092220

Date Collected: 09/22/20 09:48
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 01:29	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 01:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 01:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 01:29	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 01:29	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 01:29	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 01:29	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 01:29	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 01:29	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 01:29	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 01:29	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 01:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 01:29	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 01:29	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 01:29	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 01:29	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 01:29	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 01:29	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 01:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 01:29	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			10/01/20 01:29	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 01:29	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:29	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:29	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 01:29	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 01:29	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 01:29	1
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 01:29	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 01:29	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 01:29	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 01:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 01:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 01:29	1
Toluene	1.0	U	1.0	0.14	ug/L			10/01/20 01:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 01:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 01:29	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 01:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 01:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 01:29	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 01:29	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 01:29	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 01:29	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 01:29	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 01:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 01:29	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 01:29	1

Client Sample ID: MSA-SW38D-092220

Lab Sample ID: 240-136984-8

Date Collected: 09/22/20 09:48
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 01:29	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/01/20 01:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 01:29*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*10/01/20 01:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*10/01/20 01:29*	*1*
Dibromofluoromethane (Surr)	*86*		*78 - 129*		*10/01/20 01:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 130*		*10/01/20 01:29*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*10/01/20 01:29*	*1*

Client Sample ID: MSA-SW40A-092220

Lab Sample ID: 240-136984-9

Date Collected: 09/22/20 09:57
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 01:51	1
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 01:51	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 01:51	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 01:51	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 01:51	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 01:51	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 01:51	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 01:51	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 01:51	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 01:51	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:51	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 01:51	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 01:51	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 01:51	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 01:51	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 01:51	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 01:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 01:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 01:51	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 01:51	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 01:51	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 01:51	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 01:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 01:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 01:51	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 01:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 01:51	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 01:51	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 01:51	1

Client Sample ID: MSA-SW40A-092220

Date Collected: 09/22/20 09:57
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-9

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 01:51	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 01:51	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 01:51	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 01:51	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 01:51	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 01:51	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 01:51	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 01:51	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 01:51	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 01:51	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 01:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 01:51	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			10/01/20 01:51	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 01:51	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:51	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 01:51	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 01:51	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 01:51	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 01:51	1
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 01:51	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 01:51	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 01:51	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 01:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 01:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 01:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 01:51	1
Toluene	1.0	U	1.0	0.14	ug/L			10/01/20 01:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 01:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 01:51	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 01:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 01:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 01:51	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 01:51	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 01:51	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 01:51	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 01:51	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 01:51	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 01:51	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 01:51	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 01:51	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/01/20 01:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.5*	*T J*	*ug/L*		*9.37*			*10/01/20 01:51*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 01:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*47 - 134*		*10/01/20 01:51*	*1*
Dibromofluoromethane (Surr)	*88*		*78 - 129*		*10/01/20 01:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 130*		*10/01/20 01:51*	*1*

Client Sample ID: MSA-SW40A-092220

Lab Sample ID: 240-136984-9

Date Collected: 09/22/20 09:57
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*69 - 122*		*10/01/20 01:51*	*1*

Client Sample ID: MSA-SW40B-092220

Lab Sample ID: 240-136984-10

Date Collected: 09/22/20 10:01
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 02:14	1
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 02:14	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 02:14	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 02:14	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 02:14	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 02:14	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 02:14	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 02:14	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 02:14	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 02:14	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:14	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 02:14	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 02:14	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 02:14	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 02:14	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 02:14	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 02:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 02:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 02:14	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 02:14	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 02:14	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 02:14	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 02:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 02:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 02:14	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 02:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 02:14	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 02:14	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 02:14	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 02:14	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 02:14	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 02:14	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 02:14	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 02:14	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 02:14	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 02:14	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 02:14	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 02:14	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 02:14	1

Client Sample ID: MSA-SW40B-092220

Lab Sample ID: 240-136984-10

Date Collected: 09/22/20 10:01
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 02:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 02:14	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			10/01/20 02:14	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 02:14	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:14	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:14	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 02:14	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 02:14	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 02:14	1
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 02:14	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 02:14	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 02:14	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:14	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 02:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 02:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 02:14	1
Toluene	1.0	U	1.0	0.14	ug/L			10/01/20 02:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 02:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 02:14	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 02:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 02:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 02:14	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 02:14	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 02:14	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 02:14	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 02:14	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 02:14	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 02:14	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 02:14	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 02:14	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/01/20 02:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 02:14*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*10/01/20 02:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*10/01/20 02:14*	*1*
Dibromofluoromethane (Surr)	*90*		*78 - 129*		*10/01/20 02:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 130*		*10/01/20 02:14*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*10/01/20 02:14*	*1*

Client Sample ID: MSA-SW40C-092220

Lab Sample ID: 240-136984-11

Date Collected: 09/22/20 10:06
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 02:37	1
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 02:37	1

Client Sample ID: MSA-SW40C-092220

Date Collected: 09/22/20 10:06
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-11

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 02:37	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 02:37	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 02:37	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 02:37	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 02:37	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 02:37	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 02:37	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 02:37	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:37	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 02:37	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 02:37	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 02:37	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 02:37	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 02:37	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 02:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 02:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 02:37	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 02:37	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 02:37	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 02:37	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 02:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 02:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 02:37	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 02:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 02:37	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 02:37	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 02:37	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 02:37	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 02:37	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 02:37	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 02:37	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 02:37	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 02:37	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 02:37	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 02:37	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 02:37	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 02:37	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 02:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 02:37	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			10/01/20 02:37	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 02:37	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:37	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:37	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 02:37	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 02:37	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 02:37	1
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 02:37	1

Client Sample ID: MSA-SW40C-092220

Lab Sample ID: 240-136984-11

Date Collected: 09/22/20 10:06
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 02:37	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 02:37	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:37	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 02:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 02:37	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 02:37	1
Toluene	1.0	U	1.0	0.14	ug/L			10/01/20 02:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 02:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 02:37	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 02:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 02:37	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 02:37	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 02:37	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 02:37	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 02:37	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 02:37	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 02:37	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 02:37	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 02:37	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 02:37	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/01/20 02:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 02:37*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*10/01/20 02:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*10/01/20 02:37*	*1*
Dibromofluoromethane (Surr)	*85*		*78 - 129*		*10/01/20 02:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 130*		*10/01/20 02:37*	*1*
Toluene-d8 (Surr)	*97*		*69 - 122*		*10/01/20 02:37*	*1*

Client Sample ID: MSA-SW40D-092220

Lab Sample ID: 240-136984-12

Date Collected: 09/22/20 10:09
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 02:59	1
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 02:59	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 02:59	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 02:59	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 02:59	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 02:59	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 02:59	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 02:59	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 02:59	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 02:59	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:59	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 02:59	1

Client Sample ID: MSA-SW40D-092220

Date Collected: 09/22/20 10:09
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-12

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 02:59	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 02:59	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 02:59	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 02:59	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 02:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 02:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 02:59	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 02:59	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 02:59	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 02:59	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 02:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 02:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 02:59	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 02:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 02:59	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 02:59	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 02:59	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 02:59	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 02:59	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 02:59	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 02:59	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 02:59	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 02:59	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 02:59	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 02:59	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 02:59	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 02:59	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 02:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 02:59	1
m-Xylene & p-Xylene	**0.16**	**J**	2.0	0.080	ug/L			10/01/20 02:59	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 02:59	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:59	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 02:59	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 02:59	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 02:59	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 02:59	1
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 02:59	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 02:59	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 02:59	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 02:59	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 02:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 02:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 02:59	1
Toluene	**0.18**	**J**	1.0	0.14	ug/L			10/01/20 02:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 02:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 02:59	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 02:59	1

Client Sample ID: MSA-SW40D-092220

Lab Sample ID: 240-136984-12

Date Collected: 09/22/20 10:09
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 02:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 02:59	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 02:59	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 02:59	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 02:59	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 02:59	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 02:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 02:59	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 02:59	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 02:59	1
Xylenes, Total	**0.16**	**J**	2.0	0.15	ug/L			10/01/20 02:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 02:59*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*10/01/20 02:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*47 - 134*		*10/01/20 02:59*	*1*
Dibromofluoromethane (Surr)	*90*		*78 - 129*		*10/01/20 02:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 130*		*10/01/20 02:59*	*1*
Toluene-d8 (Surr)	*104*		*69 - 122*		*10/01/20 02:59*	*1*

Client Sample ID: MSA-SW41A-092220

Lab Sample ID: 240-136984-13

Date Collected: 09/22/20 09:14
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			10/01/20 03:22	1
Benzene	1.0	U	1.0	0.13	ug/L			10/01/20 03:22	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			10/01/20 03:22	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/20 03:22	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			10/01/20 03:22	1
Bromoform	1.0	U	1.0	0.76	ug/L			10/01/20 03:22	1
Bromomethane	1.0	U	1.0	0.42	ug/L			10/01/20 03:22	1
2-Butanone	5.0	U	5.0	1.2	ug/L			10/01/20 03:22	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			10/01/20 03:22	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			10/01/20 03:22	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/20 03:22	1
Chloroethane	1.0	U	1.0	0.83	ug/L			10/01/20 03:22	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			10/01/20 03:22	1
Chloroform	1.0	U	1.0	0.13	ug/L			10/01/20 03:22	1
Chloromethane	1.0	U	1.0	0.20	ug/L			10/01/20 03:22	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			10/01/20 03:22	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			10/01/20 03:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			10/01/20 03:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			10/01/20 03:22	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			10/01/20 03:22	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			10/01/20 03:22	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			10/01/20 03:22	1

Client Sample ID: MSA-SW41A-092220

Date Collected: 09/22/20 09:14
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	1.0	U	1.0	0.090	ug/L			10/01/20 03:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 03:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			10/01/20 03:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			10/01/20 03:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			10/01/20 03:22	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			10/01/20 03:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/20 03:22	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 03:22	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			10/01/20 03:22	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			10/01/20 03:22	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			10/01/20 03:22	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			10/01/20 03:22	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			10/01/20 03:22	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			10/01/20 03:22	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			10/01/20 03:22	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			10/01/20 03:22	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			10/01/20 03:22	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			10/01/20 03:22	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			10/01/20 03:22	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			10/01/20 03:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			10/01/20 03:22	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			10/01/20 03:22	1
Naphthalene	1.0	U	1.0	0.32	ug/L			10/01/20 03:22	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 03:22	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			10/01/20 03:22	1
o-Xylene	1.0	U	1.0	0.090	ug/L			10/01/20 03:22	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			10/01/20 03:22	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			10/01/20 03:22	1
Styrene	1.0	U	1.0	0.10	ug/L			10/01/20 03:22	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			10/01/20 03:22	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			10/01/20 03:22	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			10/01/20 03:22	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			10/01/20 03:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			10/01/20 03:22	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/20 03:22	1
Toluene	1.0	U	1.0	0.14	ug/L			10/01/20 03:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			10/01/20 03:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			10/01/20 03:22	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			10/01/20 03:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			10/01/20 03:22	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/01/20 03:22	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			10/01/20 03:22	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			10/01/20 03:22	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			10/01/20 03:22	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			10/01/20 03:22	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			10/01/20 03:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			10/01/20 03:22	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			10/01/20 03:22	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			10/01/20 03:22	1

Client Sample ID: MSA-SW41A-092220

Lab Sample ID: 240-136984-13

Date Collected: 09/22/20 09:14
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.15	ug/L			10/01/20 03:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*10/01/20 03:22*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*10/01/20 03:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*		*10/01/20 03:22*	*1*
Dibromofluoromethane (Surr)	*87*		*78 - 129*		*10/01/20 03:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*		*10/01/20 03:22*	*1*
Toluene-d8 (Surr)	*100*		*69 - 122*		*10/01/20 03:22*	*1*

Client Sample ID: MSA-SW41B-092220

Lab Sample ID: 240-136984-14

Date Collected: 09/22/20 09:18
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 19:43	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 19:43	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 19:43	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 19:43	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 19:43	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 19:43	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 19:43	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 19:43	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 19:43	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 19:43	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 19:43	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 19:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 19:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 19:43	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 19:43	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 19:43	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 19:43	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 19:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 19:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 19:43	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 19:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 19:43	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 19:43	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 19:43	1

Client Sample ID: MSA-SW41B-092220

Date Collected: 09/22/20 09:18
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-14

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 19:43	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 19:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 19:43	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 19:43	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 19:43	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 19:43	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 19:43	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 19:43	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 19:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 19:43	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 19:43	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 19:43	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 19:43	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 19:43	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 19:43	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 19:43	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 19:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 19:43	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 19:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 19:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 19:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 19:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 19:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 19:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 19:43	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 19:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 19:43	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 19:43	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 19:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 19:43	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 19:43	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 19:43	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 19:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 19:43*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 19:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*09/29/20 19:43*	*1*
Dibromofluoromethane (Surr)	*92*		*78 - 129*		*09/29/20 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 130*		*09/29/20 19:43*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*09/29/20 19:43*	*1*

Client Sample ID: MSA-SW41C-092220

Date Collected: 09/22/20 09:22
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-15

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 20:06	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 20:06	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 20:06	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 20:06	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 20:06	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 20:06	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 20:06	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 20:06	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 20:06	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 20:06	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:06	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 20:06	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 20:06	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 20:06	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 20:06	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 20:06	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 20:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 20:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 20:06	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 20:06	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 20:06	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 20:06	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 20:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 20:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 20:06	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 20:06	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 20:06	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 20:06	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 20:06	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 20:06	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 20:06	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 20:06	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 20:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 20:06	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 20:06	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 20:06	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 20:06	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 20:06	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 20:06	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 20:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 20:06	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 20:06	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 20:06	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:06	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:06	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 20:06	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 20:06	1

Client Sample ID: MSA-SW41C-092220

Lab Sample ID: 240-136984-15

Date Collected: 09/22/20 09:22
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 20:06	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 20:06	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 20:06	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 20:06	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 20:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 20:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 20:06	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 20:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 20:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 20:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 20:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 20:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 20:06	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 20:06	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 20:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 20:06	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 20:06	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 20:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 20:06	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 20:06	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 20:06	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 20:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 20:06*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 20:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*09/29/20 20:06*	*1*
Dibromofluoromethane (Surr)	*87*		*78 - 129*		*09/29/20 20:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 130*		*09/29/20 20:06*	*1*
Toluene-d8 (Surr)	*97*		*69 - 122*		*09/29/20 20:06*	*1*

Client Sample ID: MSA-SW41D-092220

Lab Sample ID: 240-136984-16

Date Collected: 09/22/20 09:25
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 20:29	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 20:29	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 20:29	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 20:29	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 20:29	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 20:29	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 20:29	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 20:29	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 20:29	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 20:29	1

Client Sample ID: MSA-SW41D-092220

Date Collected: 09/22/20 09:25
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-16

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:29	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 20:29	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 20:29	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 20:29	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 20:29	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 20:29	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 20:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 20:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 20:29	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 20:29	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 20:29	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 20:29	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 20:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 20:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 20:29	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 20:29	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 20:29	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 20:29	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 20:29	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 20:29	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 20:29	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 20:29	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 20:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 20:29	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 20:29	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 20:29	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 20:29	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 20:29	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 20:29	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 20:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 20:29	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 20:29	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 20:29	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:29	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:29	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 20:29	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 20:29	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 20:29	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 20:29	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 20:29	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 20:29	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 20:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 20:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 20:29	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 20:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 20:29	1

Client Sample ID: MSA-SW41D-092220

Lab Sample ID: 240-136984-16

Date Collected: 09/22/20 09:25
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 20:29	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 20:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 20:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 20:29	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 20:29	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 20:29	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 20:29	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 20:29	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 20:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 20:29	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 20:29	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 20:29	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 20:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 20:29*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 20:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*09/29/20 20:29*	*1*
Dibromofluoromethane (Surr)	*88*		*78 - 129*		*09/29/20 20:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*		*09/29/20 20:29*	*1*
Toluene-d8 (Surr)	*101*		*69 - 122*		*09/29/20 20:29*	*1*

Client Sample ID: MSA-SW42A-092220

Lab Sample ID: 240-136984-17

Date Collected: 09/22/20 10:18
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 20:51	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 20:51	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 20:51	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 20:51	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 20:51	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 20:51	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 20:51	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 20:51	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 20:51	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 20:51	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:51	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 20:51	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 20:51	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 20:51	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 20:51	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 20:51	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 20:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 20:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 20:51	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 20:51	1

Client Sample ID: MSA-SW42A-092220
Date Collected: 09/22/20 10:18
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 20:51	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 20:51	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 20:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 20:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 20:51	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 20:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 20:51	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 20:51	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 20:51	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 20:51	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 20:51	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 20:51	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 20:51	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 20:51	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 20:51	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 20:51	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 20:51	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 20:51	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 20:51	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 20:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 20:51	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 20:51	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 20:51	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:51	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 20:51	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 20:51	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 20:51	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 20:51	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 20:51	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 20:51	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 20:51	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 20:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 20:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 20:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 20:51	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 20:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 20:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 20:51	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 20:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 20:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 20:51	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 20:51	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 20:51	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 20:51	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 20:51	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 20:51	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 20:51	1

Client Sample ID: MSA-SW42A-092220

Lab Sample ID: 240-136984-17

Date Collected: 09/22/20 10:18
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 20:51	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 20:51	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 20:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 20:51*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 20:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*47 - 134*		*09/29/20 20:51*	*1*
Dibromofluoromethane (Surr)	*88*		*78 - 129*		*09/29/20 20:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 130*		*09/29/20 20:51*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*09/29/20 20:51*	*1*

Client Sample ID: MSA-SW42B-092220

Lab Sample ID: 240-136984-18

Date Collected: 09/22/20 10:21
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 21:14	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 21:14	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 21:14	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 21:14	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 21:14	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 21:14	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 21:14	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 21:14	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 21:14	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 21:14	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:14	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 21:14	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 21:14	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 21:14	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 21:14	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 21:14	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 21:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 21:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 21:14	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 21:14	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 21:14	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 21:14	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 21:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 21:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 21:14	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 21:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 21:14	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 21:14	1

Client Sample ID: MSA-SW42B-092220

Date Collected: 09/22/20 10:21
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-18

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 21:14	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 21:14	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 21:14	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 21:14	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 21:14	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 21:14	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 21:14	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 21:14	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 21:14	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 21:14	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 21:14	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 21:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 21:14	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 21:14	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 21:14	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:14	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:14	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 21:14	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 21:14	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 21:14	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 21:14	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 21:14	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 21:14	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:14	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 21:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 21:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 21:14	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 21:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 21:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 21:14	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 21:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 21:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 21:14	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 21:14	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 21:14	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 21:14	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 21:14	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 21:14	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 21:14	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 21:14	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 21:14	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 21:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 21:14*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 21:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*47 - 134*		*09/29/20 21:14*	*1*
Dibromofluoromethane (Surr)	*91*		*78 - 129*		*09/29/20 21:14*	*1*

Client Sample ID: MSA-SW42B-092220

Lab Sample ID: 240-136984-18

Date Collected: 09/22/20 10:21
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 130*		*09/29/20 21:14*	*1*
Toluene-d8 (Surr)	*104*		*69 - 122*		*09/29/20 21:14*	*1*

Client Sample ID: MSA-SW42C-092220

Lab Sample ID: 240-136984-19

Date Collected: 09/22/20 10:25
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 21:36	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 21:36	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 21:36	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 21:36	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 21:36	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 21:36	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 21:36	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 21:36	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 21:36	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 21:36	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:36	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 21:36	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 21:36	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 21:36	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 21:36	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 21:36	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 21:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 21:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 21:36	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 21:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 21:36	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 21:36	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 21:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 21:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 21:36	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 21:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 21:36	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 21:36	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 21:36	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 21:36	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 21:36	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 21:36	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 21:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 21:36	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 21:36	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 21:36	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 21:36	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 21:36	1

Client Sample ID: MSA-SW42C-092220

Lab Sample ID: 240-136984-19

Date Collected: 09/22/20 10:25
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 21:36	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 21:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 21:36	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 21:36	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 21:36	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:36	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:36	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 21:36	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 21:36	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 21:36	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 21:36	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 21:36	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 21:36	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 21:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 21:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 21:36	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 21:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 21:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 21:36	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 21:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 21:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 21:36	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 21:36	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 21:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 21:36	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 21:36	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 21:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 21:36	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 21:36	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 21:36	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 21:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 21:36*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 21:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*47 - 134*		*09/29/20 21:36*	*1*
Dibromofluoromethane (Surr)	*92*		*78 - 129*		*09/29/20 21:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 130*		*09/29/20 21:36*	*1*
Toluene-d8 (Surr)	*104*		*69 - 122*		*09/29/20 21:36*	*1*

Client Sample ID: MSA-SW42D-092220

Lab Sample ID: 240-136984-20

Date Collected: 09/22/20 10:28
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 21:58	1

Client Sample ID: MSA-SW42D-092220

Date Collected: 09/22/20 10:28
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-20

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 21:58	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 21:58	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 21:58	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 21:58	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 21:58	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 21:58	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 21:58	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 21:58	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 21:58	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:58	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 21:58	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 21:58	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 21:58	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 21:58	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 21:58	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 21:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 21:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 21:58	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 21:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 21:58	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 21:58	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 21:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 21:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 21:58	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 21:58	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 21:58	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 21:58	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 21:58	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 21:58	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 21:58	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 21:58	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 21:58	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 21:58	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 21:58	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 21:58	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 21:58	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 21:58	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 21:58	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 21:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 21:58	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 21:58	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 21:58	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:58	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 21:58	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 21:58	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 21:58	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 21:58	1

Client Sample ID: MSA-SW42D-092220

Lab Sample ID: 240-136984-20

Date Collected: 09/22/20 10:28
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 21:58	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 21:58	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 21:58	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 21:58	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 21:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 21:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 21:58	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 21:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 21:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 21:58	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 21:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 21:58	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 21:58	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 21:58	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 21:58	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 21:58	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 21:58	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 21:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 21:58	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 21:58	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 21:58	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 21:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 21:58*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 21:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*09/29/20 21:58*	*1*
Dibromofluoromethane (Surr)	*91*		*78 - 129*		*09/29/20 21:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*		*09/29/20 21:58*	*1*
Toluene-d8 (Surr)	*101*		*69 - 122*		*09/29/20 21:58*	*1*

Client Sample ID: MSA-SW43A-092220

Lab Sample ID: 240-136984-21

Date Collected: 09/22/20 08:42
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 22:20	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 22:20	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 22:20	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 22:20	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 22:20	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 22:20	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 22:20	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 22:20	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 22:20	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 22:20	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 22:20	1

Client Sample ID: MSA-SW43A-092220
Date Collected: 09/22/20 08:42
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-21
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 22:20	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 22:20	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 22:20	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 22:20	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 22:20	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 22:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 22:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 22:20	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 22:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 22:20	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 22:20	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 22:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 22:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 22:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 22:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 22:20	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 22:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 22:20	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 22:20	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 22:20	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 22:20	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 22:20	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 22:20	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 22:20	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 22:20	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 22:20	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 22:20	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 22:20	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 22:20	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 22:20	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 22:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 22:20	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 22:20	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 22:20	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 22:20	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 22:20	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 22:20	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 22:20	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 22:20	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 22:20	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 22:20	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 22:20	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 22:20	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 22:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 22:20	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 22:20	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 22:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 22:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 22:20	1

Client Sample ID: MSA-SW43A-092220

Lab Sample ID: 240-136984-21

Date Collected: 09/22/20 08:42
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 22:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 22:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 22:20	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 22:20	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 22:20	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 22:20	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 22:20	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 22:20	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 22:20	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 22:20	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 22:20	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 22:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 22:20*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 22:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*09/29/20 22:20*	*1*
Dibromofluoromethane (Surr)	*90*		*78 - 129*		*09/29/20 22:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 130*		*09/29/20 22:20*	*1*
Toluene-d8 (Surr)	*102*		*69 - 122*		*09/29/20 22:20*	*1*

Client Sample ID: MSA-SW43B-092220

Lab Sample ID: 240-136984-22

Date Collected: 09/22/20 08:47
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 22:43	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 22:43	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 22:43	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 22:43	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 22:43	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 22:43	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 22:43	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 22:43	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 22:43	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 22:43	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 22:43	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 22:43	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 22:43	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 22:43	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 22:43	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 22:43	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 22:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 22:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 22:43	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 22:43	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 22:43	1

Client Sample ID: MSA-SW43B-092220

Date Collected: 09/22/20 08:47
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-22

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 22:43	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 22:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 22:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 22:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 22:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 22:43	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 22:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 22:43	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 22:43	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 22:43	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 22:43	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 22:43	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 22:43	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 22:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 22:43	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 22:43	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 22:43	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 22:43	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 22:43	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 22:43	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 22:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 22:43	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 22:43	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 22:43	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 22:43	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 22:43	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 22:43	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 22:43	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 22:43	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 22:43	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 22:43	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 22:43	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 22:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 22:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 22:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 22:43	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 22:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 22:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 22:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 22:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 22:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 22:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 22:43	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 22:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 22:43	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 22:43	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 22:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 22:43	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 22:43	1

Client Sample ID: MSA-SW43B-092220

Lab Sample ID: 240-136984-22

Date Collected: 09/22/20 08:47
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 22:43	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 22:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 22:43*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 22:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*09/29/20 22:43*	*1*
Dibromofluoromethane (Surr)	*89*		*78 - 129*		*09/29/20 22:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*		*09/29/20 22:43*	*1*
Toluene-d8 (Surr)	*101*		*69 - 122*		*09/29/20 22:43*	*1*

Client Sample ID: MSA-SW43C-092220

Lab Sample ID: 240-136984-23

Date Collected: 09/22/20 08:52
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 23:06	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 23:06	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 23:06	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 23:06	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 23:06	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 23:06	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 23:06	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 23:06	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 23:06	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 23:06	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:06	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 23:06	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 23:06	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 23:06	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 23:06	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 23:06	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 23:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 23:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 23:06	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 23:06	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 23:06	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 23:06	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 23:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 23:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 23:06	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 23:06	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 23:06	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 23:06	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 23:06	1

Client Sample ID: MSA-SW43C-092220

Date Collected: 09/22/20 08:52
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-23

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 23:06	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 23:06	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 23:06	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 23:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 23:06	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 23:06	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 23:06	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 23:06	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 23:06	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 23:06	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 23:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 23:06	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 23:06	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 23:06	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:06	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:06	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 23:06	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 23:06	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 23:06	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 23:06	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 23:06	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 23:06	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 23:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 23:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 23:06	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 23:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 23:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 23:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 23:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 23:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 23:06	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 23:06	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 23:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 23:06	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 23:06	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 23:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 23:06	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 23:06	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 23:06	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 23:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 23:06*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 23:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*47 - 134*		*09/29/20 23:06*	*1*
Dibromofluoromethane (Surr)	*86*		*78 - 129*		*09/29/20 23:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 130*		*09/29/20 23:06*	*1*

Client Sample ID: MSA-SW43C-092220

Lab Sample ID: 240-136984-23

Date Collected: 09/22/20 08:52
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*69 - 122*		*09/29/20 23:06*	*1*

Client Sample ID: MSA-SW43D-092220

Lab Sample ID: 240-136984-24

Date Collected: 09/22/20 08:59
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 23:28	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 23:28	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 23:28	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 23:28	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 23:28	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 23:28	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 23:28	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 23:28	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 23:28	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 23:28	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:28	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 23:28	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 23:28	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 23:28	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 23:28	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 23:28	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 23:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 23:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 23:28	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 23:28	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 23:28	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 23:28	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 23:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 23:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 23:28	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 23:28	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 23:28	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 23:28	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 23:28	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 23:28	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 23:28	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 23:28	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 23:28	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 23:28	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 23:28	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 23:28	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 23:28	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 23:28	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 23:28	1

Client Sample ID: MSA-SW43D-092220

Lab Sample ID: 240-136984-24

Date Collected: 09/22/20 08:59
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 23:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 23:28	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 23:28	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 23:28	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:28	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:28	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 23:28	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 23:28	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 23:28	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 23:28	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 23:28	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 23:28	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 23:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 23:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 23:28	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 23:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 23:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 23:28	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 23:28	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 23:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 23:28	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 23:28	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 23:28	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 23:28	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 23:28	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 23:28	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 23:28	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 23:28	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 23:28	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 23:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 23:28*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 23:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*09/29/20 23:28*	*1*
Dibromofluoromethane (Surr)	*83*		*78 - 129*		*09/29/20 23:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 130*		*09/29/20 23:28*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*09/29/20 23:28*	*1*

Client Sample ID: MSA-SW44A-092220

Lab Sample ID: 240-136984-25

Date Collected: 09/22/20 08:14
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 23:50	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 23:50	1

Client Sample ID: MSA-SW44A-092220

Date Collected: 09/22/20 08:14
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-25

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 23:50	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 23:50	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 23:50	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 23:50	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 23:50	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 23:50	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 23:50	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 23:50	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:50	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 23:50	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 23:50	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 23:50	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 23:50	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 23:50	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 23:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 23:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 23:50	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 23:50	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 23:50	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 23:50	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 23:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 23:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 23:50	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 23:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 23:50	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 23:50	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 23:50	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 23:50	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 23:50	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 23:50	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 23:50	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 23:50	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 23:50	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 23:50	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 23:50	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 23:50	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 23:50	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 23:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 23:50	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 23:50	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 23:50	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:50	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 23:50	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 23:50	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 23:50	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 23:50	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 23:50	1

Client Sample ID: MSA-SW44A-092220

Lab Sample ID: 240-136984-25

Date Collected: 09/22/20 08:14
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 23:50	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 23:50	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 23:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 23:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 23:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 23:50	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 23:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 23:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 23:50	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 23:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 23:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 23:50	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 23:50	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 23:50	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 23:50	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 23:50	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 23:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 23:50	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 23:50	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 23:50	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 23:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/29/20 23:50*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/29/20 23:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*47 - 134*		*09/29/20 23:50*	*1*
Dibromofluoromethane (Surr)	*81*		*78 - 129*		*09/29/20 23:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 130*		*09/29/20 23:50*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*09/29/20 23:50*	*1*

Client Sample ID: MSA-SW44B-092220

Lab Sample ID: 240-136984-26

Date Collected: 09/22/20 08:23
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 00:13	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 00:13	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 00:13	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 00:13	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 00:13	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 00:13	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 00:13	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 00:13	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 00:13	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 00:13	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:13	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 00:13	1

Client Sample ID: MSA-SW44B-092220
Date Collected: 09/22/20 08:23
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-26
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 00:13	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 00:13	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 00:13	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 00:13	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 00:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 00:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 00:13	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 00:13	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 00:13	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 00:13	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 00:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 00:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 00:13	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 00:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 00:13	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 00:13	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 00:13	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 00:13	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 00:13	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 00:13	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 00:13	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 00:13	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 00:13	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 00:13	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 00:13	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 00:13	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 00:13	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 00:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 00:13	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 00:13	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 00:13	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:13	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:13	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 00:13	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 00:13	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 00:13	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 00:13	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 00:13	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 00:13	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:13	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 00:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 00:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 00:13	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 00:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 00:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 00:13	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 00:13	1

Client Sample ID: MSA-SW44B-092220

Lab Sample ID: 240-136984-26

Date Collected: 09/22/20 08:23
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 00:13	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 00:13	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 00:13	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 00:13	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 00:13	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 00:13	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 00:13	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 00:13	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 00:13	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 00:13	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 00:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 00:13*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 00:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*47 - 134*		*09/30/20 00:13*	*1*
Dibromofluoromethane (Surr)	*88*		*78 - 129*		*09/30/20 00:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*		*09/30/20 00:13*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*09/30/20 00:13*	*1*

Client Sample ID: MSA-SW44C-092220

Lab Sample ID: 240-136984-27

Date Collected: 09/22/20 08:28
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 00:36	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 00:36	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 00:36	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 00:36	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 00:36	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 00:36	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 00:36	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 00:36	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 00:36	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 00:36	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:36	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 00:36	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 00:36	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 00:36	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 00:36	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 00:36	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 00:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 00:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 00:36	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 00:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 00:36	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 00:36	1

Client Sample ID: MSA-SW44C-092220

Date Collected: 09/22/20 08:28
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-27

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 00:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 00:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 00:36	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 00:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 00:36	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 00:36	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 00:36	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 00:36	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 00:36	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 00:36	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 00:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 00:36	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 00:36	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 00:36	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 00:36	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 00:36	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 00:36	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 00:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 00:36	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 00:36	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 00:36	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:36	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:36	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 00:36	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 00:36	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 00:36	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 00:36	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 00:36	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 00:36	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 00:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 00:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 00:36	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 00:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 00:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 00:36	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 00:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 00:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 00:36	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 00:36	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 00:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 00:36	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 00:36	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 00:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 00:36	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 00:36	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 00:36	1

Client Sample ID: MSA-SW44C-092220

Lab Sample ID: 240-136984-27

Date Collected: 09/22/20 08:28
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 00:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 00:36*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 00:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*09/30/20 00:36*	*1*
Dibromofluoromethane (Surr)	*90*		*78 - 129*		*09/30/20 00:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*		*09/30/20 00:36*	*1*
Toluene-d8 (Surr)	*102*		*69 - 122*		*09/30/20 00:36*	*1*

Client Sample ID: MSA-SW44D-092220

Lab Sample ID: 240-136984-28

Date Collected: 09/22/20 08:37
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 00:58	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 00:58	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 00:58	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 00:58	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 00:58	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 00:58	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 00:58	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 00:58	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 00:58	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 00:58	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:58	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 00:58	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 00:58	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 00:58	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 00:58	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 00:58	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 00:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 00:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 00:58	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 00:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 00:58	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 00:58	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 00:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 00:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 00:58	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 00:58	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 00:58	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 00:58	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 00:58	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 00:58	1

Client Sample ID: MSA-SW44D-092220

Date Collected: 09/22/20 08:37
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-28

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 00:58	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 00:58	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 00:58	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 00:58	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 00:58	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 00:58	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 00:58	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 00:58	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 00:58	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 00:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 00:58	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 00:58	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 00:58	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:58	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 00:58	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 00:58	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 00:58	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 00:58	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 00:58	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 00:58	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 00:58	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 00:58	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 00:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 00:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 00:58	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 00:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 00:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 00:58	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 00:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 00:58	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 00:58	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 00:58	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 00:58	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 00:58	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 00:58	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 00:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 00:58	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 00:58	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 00:58	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 00:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 00:58*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 00:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*09/30/20 00:58*	*1*
Dibromofluoromethane (Surr)	*91*		*78 - 129*		*09/30/20 00:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*		*09/30/20 00:58*	*1*
Toluene-d8 (Surr)	*100*		*69 - 122*		*09/30/20 00:58*	*1*

Client Sample ID: TB-092220

Date Collected: 09/22/20 00:00
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-29

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 01:20	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 01:20	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 01:20	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 01:20	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 01:20	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 01:20	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 01:20	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 01:20	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 01:20	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 01:20	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 01:20	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 01:20	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 01:20	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 01:20	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 01:20	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 01:20	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 01:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 01:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 01:20	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 01:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 01:20	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 01:20	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 01:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 01:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 01:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 01:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 01:20	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 01:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 01:20	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 01:20	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 01:20	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 01:20	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 01:20	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 01:20	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 01:20	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 01:20	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 01:20	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 01:20	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 01:20	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 01:20	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 01:20	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 01:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 01:20	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 01:20	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 01:20	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 01:20	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 01:20	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 01:20	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 01:20	1

Client Sample ID: TB-092220

Date Collected: 09/22/20 00:00
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-29

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 01:20	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 01:20	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 01:20	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 01:20	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 01:20	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 01:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 01:20	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 01:20	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 01:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 01:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 01:20	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 01:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 01:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 01:20	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 01:20	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 01:20	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 01:20	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 01:20	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 01:20	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 01:20	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 01:20	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 01:20	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 01:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 01:20*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 01:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*09/30/20 01:20*	*1*
Dibromofluoromethane (Surr)	*90*		*78 - 129*		*09/30/20 01:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 130*		*09/30/20 01:20*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*09/30/20 01:20*	*1*

Client Sample ID: MSA-SW46A-092220

Date Collected: 09/22/20 10:13
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-30

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 01:43	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 01:43	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 01:43	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 01:43	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 01:43	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 01:43	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 01:43	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 01:43	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 01:43	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 01:43	1

Client Sample ID: MSA-SW46A-092220

Date Collected: 09/22/20 10:13
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-30

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 01:43	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 01:43	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 01:43	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 01:43	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 01:43	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 01:43	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 01:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 01:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 01:43	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 01:43	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 01:43	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 01:43	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 01:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 01:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 01:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 01:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 01:43	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 01:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 01:43	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 01:43	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 01:43	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 01:43	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 01:43	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 01:43	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 01:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 01:43	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 01:43	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 01:43	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 01:43	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 01:43	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 01:43	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 01:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 01:43	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 01:43	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 01:43	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 01:43	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 01:43	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 01:43	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 01:43	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 01:43	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 01:43	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 01:43	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 01:43	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 01:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 01:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 01:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 01:43	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 01:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 01:43	1

Client Sample ID: MSA-SW46A-092220

Lab Sample ID: 240-136984-30

Date Collected: 09/22/20 10:13
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 01:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 01:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 01:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 01:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 01:43	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 01:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 01:43	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 01:43	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 01:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 01:43	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 01:43	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 01:43	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 01:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 01:43*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 01:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*09/30/20 01:43*	*1*
Dibromofluoromethane (Surr)	*89*		*78 - 129*		*09/30/20 01:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*		*09/30/20 01:43*	*1*
Toluene-d8 (Surr)	*102*		*69 - 122*		*09/30/20 01:43*	*1*

Client Sample ID: MSA-SW47A-092220

Lab Sample ID: 240-136984-31

Date Collected: 09/22/20 09:53
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 02:05	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 02:05	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 02:05	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 02:05	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 02:05	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 02:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 02:05	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 02:05	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 02:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 02:05	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:05	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 02:05	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 02:05	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 02:05	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 02:05	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 02:05	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 02:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 02:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 02:05	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 02:05	1

Client Sample ID: MSA-SW47A-092220

Date Collected: 09/22/20 09:53
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-31

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 02:05	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 02:05	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 02:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 02:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 02:05	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 02:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 02:05	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 02:05	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 02:05	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 02:05	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 02:05	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 02:05	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 02:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 02:05	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 02:05	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 02:05	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 02:05	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 02:05	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 02:05	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 02:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 02:05	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 02:05	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 02:05	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:05	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:05	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 02:05	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 02:05	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 02:05	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 02:05	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 02:05	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 02:05	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 02:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 02:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 02:05	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 02:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 02:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 02:05	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 02:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 02:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 02:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 02:05	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 02:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 02:05	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 02:05	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 02:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 02:05	1

Client Sample ID: MSA-SW47A-092220

Lab Sample ID: 240-136984-31

Date Collected: 09/22/20 09:53
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 02:05	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 02:05	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 02:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 02:05*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 02:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*47 - 134*		*09/30/20 02:05*	*1*
Dibromofluoromethane (Surr)	*90*		*78 - 129*		*09/30/20 02:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*		*09/30/20 02:05*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*09/30/20 02:05*	*1*

Client Sample ID: MSA-SW48A-092220

Lab Sample ID: 240-136984-32

Date Collected: 09/22/20 09:29
Date Received: 09/23/20 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 02:27	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 02:27	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 02:27	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 02:27	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 02:27	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 02:27	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 02:27	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 02:27	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 02:27	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 02:27	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:27	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 02:27	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 02:27	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 02:27	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 02:27	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 02:27	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 02:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 02:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 02:27	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 02:27	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 02:27	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 02:27	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 02:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 02:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 02:27	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 02:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 02:27	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 02:27	1

Client Sample ID: MSA-SW48A-092220

Date Collected: 09/22/20 09:29
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-32

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 02:27	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 02:27	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 02:27	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 02:27	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 02:27	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 02:27	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 02:27	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 02:27	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 02:27	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 02:27	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 02:27	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 02:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 02:27	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 02:27	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 02:27	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:27	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:27	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 02:27	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 02:27	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 02:27	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 02:27	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 02:27	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 02:27	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:27	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 02:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 02:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 02:27	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 02:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 02:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 02:27	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 02:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 02:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 02:27	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 02:27	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 02:27	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 02:27	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 02:27	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 02:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 02:27	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 02:27	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 02:27	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 02:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 02:27*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 02:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*09/30/20 02:27*	*1*
Dibromofluoromethane (Surr)	*89*		*78 - 129*		*09/30/20 02:27*	*1*

Client Sample ID: MSA-SW48A-092220

Lab Sample ID: 240-136984-32

Date Collected: 09/22/20 09:29
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*		*09/30/20 02:27*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*09/30/20 02:27*	*1*

Client Sample ID: MSA-SW49A-092220

Lab Sample ID: 240-136984-33

Date Collected: 09/22/20 09:06
Matrix: Water
Date Received: 09/23/20 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 02:50	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 02:50	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 02:50	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 02:50	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 02:50	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 02:50	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 02:50	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 02:50	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 02:50	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 02:50	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:50	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 02:50	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 02:50	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 02:50	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 02:50	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 02:50	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 02:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 02:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 02:50	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 02:50	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 02:50	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 02:50	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 02:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 02:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 02:50	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 02:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 02:50	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 02:50	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 02:50	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 02:50	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 02:50	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 02:50	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 02:50	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 02:50	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 02:50	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 02:50	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 02:50	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 02:50	1

Client Sample ID: MSA-SW49A-092220

Date Collected: 09/22/20 09:06
Date Received: 09/23/20 09:50

Lab Sample ID: 240-136984-33

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 02:50	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 02:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 02:50	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 02:50	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 02:50	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:50	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 02:50	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 02:50	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 02:50	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 02:50	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 02:50	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 02:50	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 02:50	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 02:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 02:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 02:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 02:50	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 02:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 02:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 02:50	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 02:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 02:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 02:50	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 02:50	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 02:50	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 02:50	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 02:50	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 02:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 02:50	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 02:50	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 02:50	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 02:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*09/30/20 02:50*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 02:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*09/30/20 02:50*	*1*
Dibromofluoromethane (Surr)	*89*		*78 - 129*		*09/30/20 02:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*		*09/30/20 02:50*	*1*
Toluene-d8 (Surr)	*101*		*69 - 122*		*09/30/20 02:50*	*1*

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.14	ug/L
1,1,1-Trichloroethane	1.0	0.24	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.13	ug/L
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	0.41	ug/L
1,1-Dichloroethane	1.0	0.17	ug/L
1,1-Dichloroethene	1.0	0.19	ug/L
1,1-Dichloropropene	1.0	0.14	ug/L
1,2,3-Trichlorobenzene	1.0	0.54	ug/L
1,2,3-Trichloropropane	1.0	0.24	ug/L
1,2,3-Trimethylbenzene	5.0	0.14	ug/L
1,2,4-Trichlorobenzene	1.0	0.26	ug/L
1,2,4-Trimethylbenzene	1.0	0.070	ug/L
1,2-Dibromo-3-Chloropropane	5.0	0.91	ug/L
1,2-Dibromoethane	1.0	0.12	ug/L
1,2-Dichlorobenzene	1.0	0.15	ug/L
1,2-Dichloroethane	1.0	0.21	ug/L
1,2-Dichloropropane	1.0	0.15	ug/L
1,3-Dichlorobenzene	1.0	0.15	ug/L
1,3-Dichloropropane	1.0	0.21	ug/L
1,4-Dichlorobenzene	1.0	0.16	ug/L
2,2-Dichloropropane	1.0	0.31	ug/L
2-Butanone	5.0	1.2	ug/L
2-Chloroethyl vinyl ether	10	0.26	ug/L
2-Chlorotoluene	1.0	0.15	ug/L
2-Hexanone	5.0	0.54	ug/L
4-Chlorotoluene	1.0	0.090	ug/L
4-Methyl-2-pentanone	5.0	0.42	ug/L
Acetone	5.0	5.4	ug/L
Benzene	1.0	0.13	ug/L
Bromobenzene	1.0	0.12	ug/L
Bromochloromethane	1.0	0.14	ug/L
Bromodichloromethane	1.0	0.17	ug/L
Bromoform	1.0	0.76	ug/L
Bromomethane	1.0	0.42	ug/L
Carbon disulfide	1.0	0.28	ug/L
Carbon tetrachloride	1.0	0.26	ug/L
Chlorobenzene	1.0	0.14	ug/L
Chloroethane	1.0	0.83	ug/L
Chloroform	1.0	0.13	ug/L
Chloromethane	1.0	0.20	ug/L
cis-1,2-Dichloroethene	1.0	0.16	ug/L
cis-1,3-Dichloropropene	1.0	0.61	ug/L
Dibromochloromethane	1.0	0.39	ug/L
Dibromomethane	1.0	0.090	ug/L
Dichlorodifluoromethane	1.0	0.35	ug/L
Diisopropyl ether	5.0	0.17	ug/L
Ethylbenzene	1.0	0.11	ug/L
Ethyl-t-butyl ether (ETBE)	5.0	0.15	ug/L
Hexachlorobutadiene	1.0	0.83	ug/L
Isopropylbenzene	1.0	0.090	ug/L
Methyl tert-butyl ether	1.0	0.070	ug/L
Methylene Chloride	5.0	2.6	ug/L
m-Xylene & p-Xylene	2.0	0.080	ug/L

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	RL	MDL	Units
Naphthalene	1.0	0.32	ug/L
n-Butylbenzene	1.0	0.14	ug/L
n-Propylbenzene	1.0	0.15	ug/L
o-Xylene	1.0	0.090	ug/L
p-Isopropyltoluene	1.0	0.13	ug/L
sec-Butylbenzene	1.0	0.13	ug/L
Styrene	1.0	0.10	ug/L
Tert-amyl-methyl ether (TAME)	5.0	0.11	ug/L
tert-Butyl alcohol	20	1.7	ug/L
tert-Butylbenzene	1.0	0.14	ug/L
Tetrachloroethene	1.0	0.15	ug/L
Toluene	1.0	0.14	ug/L
trans-1,2-Dichloroethene	1.0	0.19	ug/L
trans-1,3-Dichloropropene	1.0	0.67	ug/L
Trichloroethene	1.0	0.10	ug/L
Trichlorofluoromethane	1.0	0.45	ug/L
Vinyl acetate	2.0	0.19	ug/L
Vinyl chloride	0.50	0.20	ug/L
Xylenes, Total	2.0	0.15	ug/L

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(47-134)	(78-129)	(75-130)	(69-122)
240-136984-1	MSA-SW37A-092220	103	103	102	94
240-136984-2	MSA-SW37B-092220	101	100	101	92
240-136984-3	MSA-SW37C-092220	99	96	99	91
240-136984-4	MSA-SW37D-092220	106	89	93	103
240-136984-5	MSA-SW38A-092220	97	81	86	96
240-136984-6	MSA-SW38B-092220	105	85	91	101
240-136984-7	MSA-SW38C-092220	108	88	95	100
240-136984-8	MSA-SW38D-092220	102	86	91	99
240-136984-9	MSA-SW40A-092220	111	88	94	105
240-136984-10	MSA-SW40B-092220	108	90	96	103
240-136984-11	MSA-SW40C-092220	99	85	90	97
240-136984-12	MSA-SW40D-092220	111	90	97	104
240-136984-13	MSA-SW41A-092220	103	87	93	100
240-136984-14	MSA-SW41B-092220	108	92	96	103
240-136984-15	MSA-SW41C-092220	99	87	91	97
240-136984-16	MSA-SW41D-092220	104	88	92	101
240-136984-17	MSA-SW42A-092220	110	88	94	103
240-136984-18	MSA-SW42B-092220	109	91	96	104
240-136984-19	MSA-SW42C-092220	109	92	98	104
240-136984-20	MSA-SW42D-092220	105	91	95	101
240-136984-21	MSA-SW43A-092220	107	90	94	102
240-136984-22	MSA-SW43B-092220	104	89	95	101
240-136984-23	MSA-SW43C-092220	106	86	91	101
240-136984-24	MSA-SW43D-092220	99	83	87	96
240-136984-25	MSA-SW44A-092220	98	81	85	94
240-136984-26	MSA-SW44B-092220	106	88	93	103
240-136984-27	MSA-SW44C-092220	107	90	95	102
240-136984-28	MSA-SW44D-092220	104	91	95	100
240-136984-29	TB-092220	107	90	94	103
240-136984-30	MSA-SW46A-092220	107	89	93	102
240-136984-31	MSA-SW47A-092220	109	90	95	103
240-136984-32	MSA-SW48A-092220	104	89	93	99
240-136984-33	MSA-SW49A-092220	105	89	92	101
240-137031-C-14 MS	Matrix Spike	101	91	97	98
240-137031-C-14 MSD	Matrix Spike Duplicate	101	91	96	97
LCS 240-453487/6	Lab Control Sample	102	91	96	97
LCS 240-453571/5	Lab Control Sample	107	90	92	102
LCS 240-453771/5	Lab Control Sample	107	90	92	102
MB 240-453487/9	Method Blank	100	98	104	94
MB 240-453571/8	Method Blank	107	89	95	103
MB 240-453771/8	Method Blank	107	90	93	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-453487/9
Matrix: Water
Analysis Batch: 453487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 11:51	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 11:51	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 11:51	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 11:51	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 11:51	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 11:51	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 11:51	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 11:51	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 11:51	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 11:51	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 11:51	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 11:51	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 11:51	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 11:51	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 11:51	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 11:51	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 11:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 11:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 11:51	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 11:51	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 11:51	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 11:51	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 11:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 11:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 11:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 11:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 11:51	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 11:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 11:51	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 11:51	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 11:51	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 11:51	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 11:51	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 11:51	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 11:51	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 11:51	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 11:51	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 11:51	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 11:51	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 11:51	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 11:51	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 11:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 11:51	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 11:51	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 11:51	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 11:51	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 11:51	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 11:51	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-453487/9
Matrix: Water
Analysis Batch: 453487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 11:51	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 11:51	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 11:51	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 11:51	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 11:51	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 11:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 11:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 11:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 11:51	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 11:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 11:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 11:51	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 11:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 11:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 11:51	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 11:51	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 11:51	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 11:51	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 11:51	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 11:51	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 11:51	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 11:51	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 11:51	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 11:51	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*4.29*	*T J*	*ug/L*		*1.54*			*09/29/20 11:51*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*		*09/29/20 11:51*	*1*
Dibromofluoromethane (Surr)	*98*		*78 - 129*		*09/29/20 11:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*09/29/20 11:51*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*09/29/20 11:51*	*1*

Lab Sample ID: LCS 240-453487/6
Matrix: Water
Analysis Batch: 453487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	40.6		ug/L		101	33 - 155
Benzene	20.0	19.3		ug/L		96	77 - 123
Bromobenzene	20.0	18.3		ug/L		91	77 - 120
Bromochloromethane	20.0	17.7		ug/L		88	70 - 128
Bromodichloromethane	20.0	19.0		ug/L		95	73 - 122
Bromoform	20.0	17.9		ug/L		89	47 - 133
Bromomethane	20.0	12.9		ug/L		64	48 - 144
2-Butanone	40.0	41.2		ug/L		103	41 - 151
Carbon disulfide	20.0	18.1		ug/L		90	67 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-453487/6
Matrix: Water
Analysis Batch: 453487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	20.0	18.0		ug/L		90	61 - 142
Chlorobenzene	20.0	18.5		ug/L		93	80 - 120
Chloroethane	20.0	19.6		ug/L		98	41 - 147
2-Chloroethyl vinyl ether	20.0	19.8		ug/L		99	29 - 146
Chloroform	20.0	18.6		ug/L		93	74 - 127
Chloromethane	20.0	18.8		ug/L		94	46 - 148
2-Chlorotoluene	20.0	18.2		ug/L		91	73 - 126
4-Chlorotoluene	20.0	18.7		ug/L		93	73 - 126
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	75 - 124
cis-1,3-Dichloropropene	20.0	19.9		ug/L		99	68 - 128
Dibromochloromethane	20.0	18.3		ug/L		91	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	34 - 136
1,2-Dibromoethane	20.0	19.3		ug/L		96	73 - 120
Dibromomethane	20.0	18.6		ug/L		93	67 - 121
1,2-Dichlorobenzene	20.0	17.7		ug/L		89	74 - 120
1,3-Dichlorobenzene	20.0	17.8		ug/L		89	74 - 120
1,4-Dichlorobenzene	20.0	18.1		ug/L		90	75 - 120
Dichlorodifluoromethane	20.0	20.0		ug/L		100	35 - 137
1,1-Dichloroethane	20.0	19.4		ug/L		97	74 - 126
1,2-Dichloroethane	20.0	19.7		ug/L		99	66 - 129
1,1-Dichloroethene	20.0	18.5		ug/L		93	73 - 129
1,2-Dichloropropane	20.0	20.2		ug/L		101	79 - 127
1,3-Dichloropropane	20.0	20.2		ug/L		101	74 - 122
2,2-Dichloropropane	20.0	19.5		ug/L		98	67 - 137
1,1-Dichloropropene	20.0	19.2		ug/L		96	78 - 120
Ethylbenzene	20.0	18.7		ug/L		93	80 - 120
Hexachlorobutadiene	20.0	20.8		ug/L		104	40 - 120
2-Hexanone	40.0	45.3		ug/L		113	43 - 142
Isopropylbenzene	20.0	19.4		ug/L		97	73 - 123
Methylene Chloride	20.0	18.0		ug/L		90	63 - 134
4-Methyl-2-pentanone	40.0	44.8		ug/L		112	43 - 145
Methyl tert-butyl ether	20.0	20.6		ug/L		103	57 - 127
m-Xylene & p-Xylene	20.0	18.9		ug/L		94	79 - 121
Naphthalene	20.0	18.4		ug/L		92	28 - 130
n-Butylbenzene	20.0	18.9		ug/L		94	54 - 129
n-Propylbenzene	20.0	18.5		ug/L		92	67 - 130
o-Xylene	20.0	18.8		ug/L		94	75 - 123
p-Isopropyltoluene	20.0	18.9		ug/L		94	66 - 127
sec-Butylbenzene	20.0	19.0		ug/L		95	60 - 131
Styrene	20.0	19.0		ug/L		95	75 - 121
tert-Butyl alcohol	200	232		ug/L		116	15 - 169
tert-Butylbenzene	20.0	18.4		ug/L		92	63 - 126
1,1,1,2-Tetrachloroethane	20.0	18.6		ug/L		93	77 - 120
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	45 - 151
Tetrachloroethene	20.0	18.8		ug/L		94	70 - 125
Toluene	20.0	19.2		ug/L		96	79 - 122
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	74 - 130
trans-1,3-Dichloropropene	20.0	18.7		ug/L		93	64 - 120
1,2,3-Trichlorobenzene	20.0	18.6		ug/L		93	42 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-453487/6
Matrix: Water
Analysis Batch: 453487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,4-Trichlorobenzene			20.0	18.9		ug/L		94	47 - 120		
1,1,1-Trichloroethane			20.0	18.8		ug/L		94	65 - 141		
Trichloroethene			20.0	17.9		ug/L		90	71 - 121		
Trichlorofluoromethane			20.0	20.8		ug/L		104	52 - 148		
1,2,3-Trichloropropane			20.0	19.2		ug/L		96	57 - 137		
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	20.4		ug/L		102	54 - 148		
1,2,4-Trimethylbenzene			20.0	19.4		ug/L		97	66 - 129		
Vinyl acetate			20.0	18.1		ug/L		91	44 - 160		
Vinyl chloride			20.0	20.1		ug/L		100	61 - 134		
Xylenes, Total			40.0	37.7		ug/L		94	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*
Dibromofluoromethane (Surr)	*91*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 130*
Toluene-d8 (Surr)	*97*		*69 - 122*

Lab Sample ID: MB 240-453571/8
Matrix: Water
Analysis Batch: 453571

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/29/20 19:21	1
Benzene	1.0	U	1.0	0.13	ug/L			09/29/20 19:21	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/29/20 19:21	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/20 19:21	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/29/20 19:21	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/29/20 19:21	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/29/20 19:21	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/29/20 19:21	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/29/20 19:21	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/29/20 19:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:21	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/29/20 19:21	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/29/20 19:21	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/29/20 19:21	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/29/20 19:21	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/29/20 19:21	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/29/20 19:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/29/20 19:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/29/20 19:21	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/29/20 19:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/29/20 19:21	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/29/20 19:21	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/29/20 19:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/29/20 19:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-453571/8
Matrix: Water
Analysis Batch: 453571

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/29/20 19:21	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/29/20 19:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/20 19:21	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 19:21	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/29/20 19:21	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/29/20 19:21	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/29/20 19:21	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/29/20 19:21	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/29/20 19:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/29/20 19:21	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/29/20 19:21	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/29/20 19:21	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/29/20 19:21	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/29/20 19:21	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/29/20 19:21	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/29/20 19:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/29/20 19:21	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/29/20 19:21	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/29/20 19:21	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:21	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/29/20 19:21	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/29/20 19:21	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/29/20 19:21	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/29/20 19:21	1
Styrene	1.0	U	1.0	0.10	ug/L			09/29/20 19:21	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/29/20 19:21	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/29/20 19:21	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/29/20 19:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/29/20 19:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/29/20 19:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/20 19:21	1
Toluene	1.0	U	1.0	0.14	ug/L			09/29/20 19:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/29/20 19:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/29/20 19:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/29/20 19:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/29/20 19:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/20 19:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/29/20 19:21	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/29/20 19:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/29/20 19:21	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/29/20 19:21	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/29/20 19:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/29/20 19:21	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/29/20 19:21	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/29/20 19:21	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/29/20 19:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-453571/8
Matrix: Water
Analysis Batch: 453571

Client Sample ID: Method Blank
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/29/20 19:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		47 - 134		09/29/20 19:21	1
Dibromofluoromethane (Surr)	89		78 - 129		09/29/20 19:21	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 130		09/29/20 19:21	1
Toluene-d8 (Surr)	103		69 - 122		09/29/20 19:21	1

Lab Sample ID: LCS 240-453571/5
Matrix: Water
Analysis Batch: 453571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	46.3		ug/L		116	33 - 155
Benzene	20.0	20.2		ug/L		101	77 - 123
Bromobenzene	20.0	22.3		ug/L		112	77 - 120
Bromochloromethane	20.0	18.1		ug/L		90	70 - 128
Bromodichloromethane	20.0	20.6		ug/L		103	73 - 122
Bromoform	20.0	21.0		ug/L		105	47 - 133
Bromomethane	20.0	18.2		ug/L		91	48 - 144
2-Butanone	40.0	39.2		ug/L		98	41 - 151
Carbon disulfide	20.0	22.8		ug/L		114	67 - 127
Carbon tetrachloride	20.0	20.5		ug/L		103	61 - 142
Chlorobenzene	20.0	21.4		ug/L		107	80 - 120
Chloroethane	20.0	18.6		ug/L		93	41 - 147
2-Chloroethyl vinyl ether	20.0	22.3		ug/L		111	29 - 146
Chloroform	20.0	19.0		ug/L		95	74 - 127
Chloromethane	20.0	20.2		ug/L		101	46 - 148
2-Chlorotoluene	20.0	22.0		ug/L		110	73 - 126
4-Chlorotoluene	20.0	21.8		ug/L		109	73 - 126
cis-1,2-Dichloroethene	20.0	18.0		ug/L		90	75 - 124
cis-1,3-Dichloropropene	20.0	21.3		ug/L		107	68 - 128
Dibromochloromethane	20.0	20.1		ug/L		100	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	24.3		ug/L		122	34 - 136
1,2-Dibromoethane	20.0	20.8		ug/L		104	73 - 120
Dibromomethane	20.0	20.2		ug/L		101	67 - 121
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	74 - 120
1,3-Dichlorobenzene	20.0	21.4		ug/L		107	74 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	75 - 120
Dichlorodifluoromethane	20.0	20.6		ug/L		103	35 - 137
1,1-Dichloroethane	20.0	21.2		ug/L		106	74 - 126
1,2-Dichloroethane	20.0	19.2		ug/L		96	66 - 129
1,1-Dichloroethene	20.0	23.5		ug/L		118	73 - 129
1,2-Dichloropropane	20.0	22.4		ug/L		112	79 - 127
1,3-Dichloropropane	20.0	20.8		ug/L		104	74 - 122
2,2-Dichloropropane	20.0	18.6		ug/L		93	67 - 137
1,1-Dichloropropene	20.0	20.8		ug/L		104	78 - 120
Ethylbenzene	20.0	22.4		ug/L		112	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-453571/5
Matrix: Water
Analysis Batch: 453571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	20.0	22.9		ug/L		115	40 - 120
2-Hexanone	40.0	44.4		ug/L		111	43 - 142
Isopropylbenzene	20.0	22.2		ug/L		111	73 - 123
Methylene Chloride	20.0	21.5		ug/L		108	63 - 134
4-Methyl-2-pentanone	40.0	42.4		ug/L		106	43 - 145
Methyl tert-butyl ether	20.0	20.7		ug/L		104	57 - 127
m-Xylene & p-Xylene	20.0	22.4		ug/L		112	79 - 121
Naphthalene	20.0	23.9		ug/L		120	28 - 130
n-Butylbenzene	20.0	22.9		ug/L		114	54 - 129
n-Propylbenzene	20.0	23.4		ug/L		117	67 - 130
o-Xylene	20.0	21.2		ug/L		106	75 - 123
p-Isopropyltoluene	20.0	23.1		ug/L		116	66 - 127
sec-Butylbenzene	20.0	22.2		ug/L		111	60 - 131
Styrene	20.0	21.6		ug/L		108	75 - 121
tert-Butyl alcohol	200	267		ug/L		134	15 - 169
tert-Butylbenzene	20.0	22.7		ug/L		114	63 - 126
1,1,1,2-Tetrachloroethane	20.0	20.8		ug/L		104	77 - 120
1,1,2,2-Tetrachloroethane	20.0	22.1		ug/L		111	45 - 151
Tetrachloroethene	20.0	21.6		ug/L		108	70 - 125
Toluene	20.0	20.6		ug/L		103	79 - 122
trans-1,2-Dichloroethene	20.0	23.1		ug/L		115	74 - 130
trans-1,3-Dichloropropene	20.0	20.1		ug/L		101	64 - 120
1,2,3-Trichlorobenzene	20.0	23.5		ug/L		117	42 - 126
1,2,4-Trichlorobenzene	20.0	23.0		ug/L		115	47 - 120
1,1,1-Trichloroethane	20.0	20.6		ug/L		103	65 - 141
Trichloroethene	20.0	21.6		ug/L		108	71 - 121
Trichlorofluoromethane	20.0	18.7		ug/L		94	52 - 148
1,2,3-Trichloropropane	20.0	22.1		ug/L		111	57 - 137
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.3		ug/L		116	54 - 148
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		110	66 - 129
Vinyl acetate	20.0	19.7		ug/L		99	44 - 160
Vinyl chloride	20.0	20.2		ug/L		101	61 - 134
Xylenes, Total	40.0	43.6		ug/L		109	78 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*
Dibromofluoromethane (Surr)	*90*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*
Toluene-d8 (Surr)	*102*		*69 - 122*

Lab Sample ID: MB 240-453771/8
Matrix: Water
Analysis Batch: 453771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	5.4	ug/L			09/30/20 18:21	1
Benzene	1.0	U	1.0	0.13	ug/L			09/30/20 18:21	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			09/30/20 18:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-453771/8
Matrix: Water
Analysis Batch: 453771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	1.0	U	1.0	0.14	ug/L			09/30/20 18:21	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			09/30/20 18:21	1
Bromoform	1.0	U	1.0	0.76	ug/L			09/30/20 18:21	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/30/20 18:21	1
2-Butanone	5.0	U	5.0	1.2	ug/L			09/30/20 18:21	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			09/30/20 18:21	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			09/30/20 18:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/30/20 18:21	1
Chloroethane	1.0	U	1.0	0.83	ug/L			09/30/20 18:21	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			09/30/20 18:21	1
Chloroform	1.0	U	1.0	0.13	ug/L			09/30/20 18:21	1
Chloromethane	1.0	U	1.0	0.20	ug/L			09/30/20 18:21	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			09/30/20 18:21	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			09/30/20 18:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/20 18:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			09/30/20 18:21	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			09/30/20 18:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			09/30/20 18:21	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			09/30/20 18:21	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			09/30/20 18:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 18:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			09/30/20 18:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			09/30/20 18:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			09/30/20 18:21	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			09/30/20 18:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/30/20 18:21	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 18:21	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			09/30/20 18:21	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			09/30/20 18:21	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			09/30/20 18:21	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			09/30/20 18:21	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			09/30/20 18:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			09/30/20 18:21	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			09/30/20 18:21	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			09/30/20 18:21	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			09/30/20 18:21	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			09/30/20 18:21	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			09/30/20 18:21	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			09/30/20 18:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			09/30/20 18:21	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			09/30/20 18:21	1
Naphthalene	1.0	U	1.0	0.32	ug/L			09/30/20 18:21	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 18:21	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			09/30/20 18:21	1
o-Xylene	1.0	U	1.0	0.090	ug/L			09/30/20 18:21	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			09/30/20 18:21	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			09/30/20 18:21	1
Styrene	1.0	U	1.0	0.10	ug/L			09/30/20 18:21	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			09/30/20 18:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-453771/8
Matrix: Water
Analysis Batch: 453771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol	20	U	20	1.7	ug/L			09/30/20 18:21	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			09/30/20 18:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			09/30/20 18:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			09/30/20 18:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/20 18:21	1
Toluene	1.0	U	1.0	0.14	ug/L			09/30/20 18:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/20 18:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			09/30/20 18:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			09/30/20 18:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			09/30/20 18:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/20 18:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/20 18:21	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			09/30/20 18:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			09/30/20 18:21	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			09/30/20 18:21	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			09/30/20 18:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			09/30/20 18:21	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			09/30/20 18:21	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			09/30/20 18:21	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			09/30/20 18:21	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/30/20 18:21*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*09/30/20 18:21*	*1*
Dibromofluoromethane (Surr)	*90*		*78 - 129*		*09/30/20 18:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*		*09/30/20 18:21*	*1*
Toluene-d8 (Surr)	*101*		*69 - 122*		*09/30/20 18:21*	*1*

Lab Sample ID: LCS 240-453771/5
Matrix: Water
Analysis Batch: 453771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	43.5		ug/L		109	33 - 155
Benzene	20.0	19.8		ug/L		99	77 - 123
Bromobenzene	20.0	21.7		ug/L		108	77 - 120
Bromochloromethane	20.0	17.9		ug/L		89	70 - 128
Bromodichloromethane	20.0	20.3		ug/L		101	73 - 122
Bromoform	20.0	20.7		ug/L		103	47 - 133
Bromomethane	20.0	18.4		ug/L		92	48 - 144
2-Butanone	40.0	37.5		ug/L		94	41 - 151
Carbon disulfide	20.0	22.7		ug/L		114	67 - 127
Carbon tetrachloride	20.0	20.2		ug/L		101	61 - 142
Chlorobenzene	20.0	21.2		ug/L		106	80 - 120
Chloroethane	20.0	18.8		ug/L		94	41 - 147
2-Chloroethyl vinyl ether	20.0	20.4		ug/L		102	29 - 146

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-453771/5
Matrix: Water
Analysis Batch: 453771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	20.0	18.7		ug/L		94	74 - 127
Chloromethane	20.0	20.3		ug/L		101	46 - 148
2-Chlorotoluene	20.0	21.5		ug/L		108	73 - 126
4-Chlorotoluene	20.0	21.4		ug/L		107	73 - 126
cis-1,2-Dichloroethene	20.0	18.1		ug/L		90	75 - 124
cis-1,3-Dichloropropene	20.0	20.7		ug/L		104	68 - 128
Dibromochloromethane	20.0	20.0		ug/L		100	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	23.8		ug/L		119	34 - 136
1,2-Dibromoethane	20.0	20.5		ug/L		102	73 - 120
Dibromomethane	20.0	19.7		ug/L		98	67 - 121
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	74 - 120
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	74 - 120
1,4-Dichlorobenzene	20.0	20.5		ug/L		103	75 - 120
Dichlorodifluoromethane	20.0	19.9		ug/L		100	35 - 137
1,1-Dichloroethane	20.0	20.9		ug/L		104	74 - 126
1,2-Dichloroethane	20.0	18.6		ug/L		93	66 - 129
1,1-Dichloroethene	20.0	23.3		ug/L		116	73 - 129
1,2-Dichloropropane	20.0	21.5		ug/L		107	79 - 127
1,3-Dichloropropane	20.0	20.3		ug/L		102	74 - 122
2,2-Dichloropropane	20.0	17.6		ug/L		88	67 - 137
1,1-Dichloropropene	20.0	20.7		ug/L		104	78 - 120
Ethylbenzene	20.0	22.3		ug/L		112	80 - 120
Hexachlorobutadiene	20.0	22.8		ug/L		114	40 - 120
2-Hexanone	40.0	42.0		ug/L		105	43 - 142
Isopropylbenzene	20.0	22.2		ug/L		111	73 - 123
Methylene Chloride	20.0	21.6		ug/L		108	63 - 134
4-Methyl-2-pentanone	40.0	39.6		ug/L		99	43 - 145
Methyl tert-butyl ether	20.0	20.4		ug/L		102	57 - 127
m-Xylene & p-Xylene	20.0	22.2		ug/L		111	79 - 121
Naphthalene	20.0	23.6		ug/L		118	28 - 130
n-Butylbenzene	20.0	22.6		ug/L		113	54 - 129
n-Propylbenzene	20.0	23.1		ug/L		115	67 - 130
o-Xylene	20.0	21.2		ug/L		106	75 - 123
p-Isopropyltoluene	20.0	22.5		ug/L		112	66 - 127
sec-Butylbenzene	20.0	22.1		ug/L		111	60 - 131
Styrene	20.0	21.3		ug/L		107	75 - 121
tert-Butyl alcohol	200	242		ug/L		121	15 - 169
tert-Butylbenzene	20.0	22.4		ug/L		112	63 - 126
1,1,1,2-Tetrachloroethane	20.0	20.8		ug/L		104	77 - 120
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/L		110	45 - 151
Tetrachloroethene	20.0	21.5		ug/L		108	70 - 125
Toluene	20.0	20.5		ug/L		103	79 - 122
trans-1,2-Dichloroethene	20.0	23.0		ug/L		115	74 - 130
trans-1,3-Dichloropropene	20.0	19.9		ug/L		100	64 - 120
1,2,3-Trichlorobenzene	20.0	23.1		ug/L		116	42 - 126
1,2,4-Trichlorobenzene	20.0	22.5		ug/L		113	47 - 120
1,1,1-Trichloroethane	20.0	19.9		ug/L		99	65 - 141
Trichloroethene	20.0	21.2		ug/L		106	71 - 121
Trichlorofluoromethane	20.0	19.2		ug/L		96	52 - 148

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-453771/5
Matrix: Water
Analysis Batch: 453771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3-Trichloropropane			20.0	21.1		ug/L		106	57 - 137		
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	23.4		ug/L		117	54 - 148		
1,2,4-Trimethylbenzene			20.0	21.8		ug/L		109	66 - 129		
Vinyl acetate			20.0	18.0		ug/L		90	44 - 160		
Vinyl chloride			20.0	20.2		ug/L		101	61 - 134		
Xylenes, Total			40.0	43.4		ug/L		109	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*
Dibromofluoromethane (Surr)	*90*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*
Toluene-d8 (Surr)	*102*		*69 - 122*

GC/MS VOA

Analysis Batch: 453487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136984-1	MSA-SW37A-092220	Total/NA	Water	8260C	
240-136984-2	MSA-SW37B-092220	Total/NA	Water	8260C	
240-136984-3	MSA-SW37C-092220	Total/NA	Water	8260C	
MB 240-453487/9	Method Blank	Total/NA	Water	8260C	
LCS 240-453487/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 453571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136984-14	MSA-SW41B-092220	Total/NA	Water	8260C	
240-136984-15	MSA-SW41C-092220	Total/NA	Water	8260C	
240-136984-16	MSA-SW41D-092220	Total/NA	Water	8260C	
240-136984-17	MSA-SW42A-092220	Total/NA	Water	8260C	
240-136984-18	MSA-SW42B-092220	Total/NA	Water	8260C	
240-136984-19	MSA-SW42C-092220	Total/NA	Water	8260C	
240-136984-20	MSA-SW42D-092220	Total/NA	Water	8260C	
240-136984-21	MSA-SW43A-092220	Total/NA	Water	8260C	
240-136984-22	MSA-SW43B-092220	Total/NA	Water	8260C	
240-136984-23	MSA-SW43C-092220	Total/NA	Water	8260C	
240-136984-24	MSA-SW43D-092220	Total/NA	Water	8260C	
240-136984-25	MSA-SW44A-092220	Total/NA	Water	8260C	
240-136984-26	MSA-SW44B-092220	Total/NA	Water	8260C	
240-136984-27	MSA-SW44C-092220	Total/NA	Water	8260C	
240-136984-28	MSA-SW44D-092220	Total/NA	Water	8260C	
240-136984-29	TB-092220	Total/NA	Water	8260C	
240-136984-30	MSA-SW46A-092220	Total/NA	Water	8260C	
240-136984-31	MSA-SW47A-092220	Total/NA	Water	8260C	
240-136984-32	MSA-SW48A-092220	Total/NA	Water	8260C	
240-136984-33	MSA-SW49A-092220	Total/NA	Water	8260C	
MB 240-453571/8	Method Blank	Total/NA	Water	8260C	
LCS 240-453571/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 453771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136984-4	MSA-SW37D-092220	Total/NA	Water	8260C	
240-136984-5	MSA-SW38A-092220	Total/NA	Water	8260C	
240-136984-6	MSA-SW38B-092220	Total/NA	Water	8260C	
240-136984-7	MSA-SW38C-092220	Total/NA	Water	8260C	
240-136984-8	MSA-SW38D-092220	Total/NA	Water	8260C	
240-136984-9	MSA-SW40A-092220	Total/NA	Water	8260C	
240-136984-10	MSA-SW40B-092220	Total/NA	Water	8260C	
240-136984-11	MSA-SW40C-092220	Total/NA	Water	8260C	
240-136984-12	MSA-SW40D-092220	Total/NA	Water	8260C	
240-136984-13	MSA-SW41A-092220	Total/NA	Water	8260C	
MB 240-453771/8	Method Blank	Total/NA	Water	8260C	
LCS 240-453771/5	Lab Control Sample	Total/NA	Water	8260C	

Client Sample ID: MSA-SW37A-092220
Lab Sample ID: 240-136984-1
Date Collected: 09/22/20 10:33
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453487	09/29/20 19:18	HMB	TAL CAN

Client Sample ID: MSA-SW37B-092220
Lab Sample ID: 240-136984-2
Date Collected: 09/22/20 10:36
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453487	09/29/20 19:43	HMB	TAL CAN

Client Sample ID: MSA-SW37C-092220
Lab Sample ID: 240-136984-3
Date Collected: 09/22/20 10:39
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453487	09/29/20 20:08	HMB	TAL CAN

Client Sample ID: MSA-SW37D-092220
Lab Sample ID: 240-136984-4
Date Collected: 09/22/20 10:42
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	09/30/20 23:58	TJL1	TAL CAN

Client Sample ID: MSA-SW38A-092220
Lab Sample ID: 240-136984-5
Date Collected: 09/22/20 09:38
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 00:21	TJL1	TAL CAN

Client Sample ID: MSA-SW38B-092220
Lab Sample ID: 240-136984-6
Date Collected: 09/22/20 09:42
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 00:44	TJL1	TAL CAN

Client Sample ID: MSA-SW38C-092220
Lab Sample ID: 240-136984-7
Date Collected: 09/22/20 09:45
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 01:06	TJL1	TAL CAN

Client Sample ID: MSA-SW38D-092220
Lab Sample ID: 240-136984-8
Date Collected: 09/22/20 09:48
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 01:29	TJL1	TAL CAN

Client Sample ID: MSA-SW40A-092220
Lab Sample ID: 240-136984-9
Date Collected: 09/22/20 09:57
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 01:51	TJL1	TAL CAN

Client Sample ID: MSA-SW40B-092220
Lab Sample ID: 240-136984-10
Date Collected: 09/22/20 10:01
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 02:14	TJL1	TAL CAN

Client Sample ID: MSA-SW40C-092220
Lab Sample ID: 240-136984-11
Date Collected: 09/22/20 10:06
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 02:37	TJL1	TAL CAN

Client Sample ID: MSA-SW40D-092220
Lab Sample ID: 240-136984-12
Date Collected: 09/22/20 10:09
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 02:59	TJL1	TAL CAN

Client Sample ID: MSA-SW41A-092220
Lab Sample ID: 240-136984-13
Date Collected: 09/22/20 09:14
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453771	10/01/20 03:22	TJL1	TAL CAN

Client Sample ID: MSA-SW41B-092220
Lab Sample ID: 240-136984-14
Date Collected: 09/22/20 09:18
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 19:43	TJL1	TAL CAN

Client Sample ID: MSA-SW41C-092220
Lab Sample ID: 240-136984-15
Date Collected: 09/22/20 09:22
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 20:06	TJL1	TAL CAN

Client Sample ID: MSA-SW41D-092220
Lab Sample ID: 240-136984-16
Date Collected: 09/22/20 09:25
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 20:29	TJL1	TAL CAN

Client Sample ID: MSA-SW42A-092220
Lab Sample ID: 240-136984-17
Date Collected: 09/22/20 10:18
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 20:51	TJL1	TAL CAN

Client Sample ID: MSA-SW42B-092220
Lab Sample ID: 240-136984-18
Date Collected: 09/22/20 10:21
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 21:14	TJL1	TAL CAN

Client Sample ID: MSA-SW42C-092220
Lab Sample ID: 240-136984-19
Date Collected: 09/22/20 10:25
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 21:36	TJL1	TAL CAN

Client Sample ID: MSA-SW42D-092220
Lab Sample ID: 240-136984-20
Date Collected: 09/22/20 10:28
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 21:58	TJL1	TAL CAN

Client Sample ID: MSA-SW43A-092220
Lab Sample ID: 240-136984-21
Date Collected: 09/22/20 08:42
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 22:20	TJL1	TAL CAN

Client Sample ID: MSA-SW43B-092220
Lab Sample ID: 240-136984-22
Date Collected: 09/22/20 08:47
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 22:43	TJL1	TAL CAN

Client Sample ID: MSA-SW43C-092220
Lab Sample ID: 240-136984-23
Date Collected: 09/22/20 08:52
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 23:06	TJL1	TAL CAN

Client Sample ID: MSA-SW43D-092220
Lab Sample ID: 240-136984-24
Date Collected: 09/22/20 08:59
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 23:28	TJL1	TAL CAN

Client Sample ID: MSA-SW44A-092220
Lab Sample ID: 240-136984-25
Date Collected: 09/22/20 08:14
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/29/20 23:50	TJL1	TAL CAN

Client Sample ID: MSA-SW44B-092220
Lab Sample ID: 240-136984-26
Date Collected: 09/22/20 08:23
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/30/20 00:13	TJL1	TAL CAN

Client Sample ID: MSA-SW44C-092220
Lab Sample ID: 240-136984-27
Date Collected: 09/22/20 08:28
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/30/20 00:36	TJL1	TAL CAN

Client Sample ID: MSA-SW44D-092220
Lab Sample ID: 240-136984-28
Date Collected: 09/22/20 08:37
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/30/20 00:58	TJL1	TAL CAN

Client Sample ID: TB-092220
Lab Sample ID: 240-136984-29

Date Collected: 09/22/20 00:00
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/30/20 01:20	TJL1	TAL CAN

Client Sample ID: MSA-SW46A-092220
Lab Sample ID: 240-136984-30

Date Collected: 09/22/20 10:13
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/30/20 01:43	TJL1	TAL CAN

Client Sample ID: MSA-SW47A-092220
Lab Sample ID: 240-136984-31

Date Collected: 09/22/20 09:53
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/30/20 02:05	TJL1	TAL CAN

Client Sample ID: MSA-SW48A-092220
Lab Sample ID: 240-136984-32

Date Collected: 09/22/20 09:29
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/30/20 02:27	TJL1	TAL CAN

Client Sample ID: MSA-SW49A-092220
Lab Sample ID: 240-136984-33

Date Collected: 09/22/20 09:06
Matrix: Water
Date Received: 09/23/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	453571	09/30/20 02:50	TJL1	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20 *
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-136984-1
SDG: MSA FMC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-136984-1	MSA-SW37A-092220	Water	09/22/20 10:33	09/23/20 09:50	
240-136984-2	MSA-SW37B-092220	Water	09/22/20 10:36	09/23/20 09:50	
240-136984-3	MSA-SW37C-092220	Water	09/22/20 10:39	09/23/20 09:50	
240-136984-4	MSA-SW37D-092220	Water	09/22/20 10:42	09/23/20 09:50	
240-136984-5	MSA-SW38A-092220	Water	09/22/20 09:38	09/23/20 09:50	
240-136984-6	MSA-SW38B-092220	Water	09/22/20 09:42	09/23/20 09:50	
240-136984-7	MSA-SW38C-092220	Water	09/22/20 09:45	09/23/20 09:50	
240-136984-8	MSA-SW38D-092220	Water	09/22/20 09:48	09/23/20 09:50	
240-136984-9	MSA-SW40A-092220	Water	09/22/20 09:57	09/23/20 09:50	
240-136984-10	MSA-SW40B-092220	Water	09/22/20 10:01	09/23/20 09:50	
240-136984-11	MSA-SW40C-092220	Water	09/22/20 10:06	09/23/20 09:50	
240-136984-12	MSA-SW40D-092220	Water	09/22/20 10:09	09/23/20 09:50	
240-136984-13	MSA-SW41A-092220	Water	09/22/20 09:14	09/23/20 09:50	
240-136984-14	MSA-SW41B-092220	Water	09/22/20 09:18	09/23/20 09:50	
240-136984-15	MSA-SW41C-092220	Water	09/22/20 09:22	09/23/20 09:50	
240-136984-16	MSA-SW41D-092220	Water	09/22/20 09:25	09/23/20 09:50	
240-136984-17	MSA-SW42A-092220	Water	09/22/20 10:18	09/23/20 09:50	
240-136984-18	MSA-SW42B-092220	Water	09/22/20 10:21	09/23/20 09:50	
240-136984-19	MSA-SW42C-092220	Water	09/22/20 10:25	09/23/20 09:50	
240-136984-20	MSA-SW42D-092220	Water	09/22/20 10:28	09/23/20 09:50	
240-136984-21	MSA-SW43A-092220	Water	09/22/20 08:42	09/23/20 09:50	
240-136984-22	MSA-SW43B-092220	Water	09/22/20 08:47	09/23/20 09:50	
240-136984-23	MSA-SW43C-092220	Water	09/22/20 08:52	09/23/20 09:50	
240-136984-24	MSA-SW43D-092220	Water	09/22/20 08:59	09/23/20 09:50	
240-136984-25	MSA-SW44A-092220	Water	09/22/20 08:14	09/23/20 09:50	
240-136984-26	MSA-SW44B-092220	Water	09/22/20 08:23	09/23/20 09:50	
240-136984-27	MSA-SW44C-092220	Water	09/22/20 08:28	09/23/20 09:50	
240-136984-28	MSA-SW44D-092220	Water	09/22/20 08:37	09/23/20 09:50	
240-136984-29	TB-092220	Water	09/22/20 00:00	09/23/20 09:50	
240-136984-30	MSA-SW46A-092220	Water	09/22/20 10:13	09/23/20 09:50	
240-136984-31	MSA-SW47A-092220	Water	09/22/20 09:53	09/23/20 09:50	
240-136984-32	MSA-SW48A-092220	Water	09/22/20 09:29	09/23/20 09:50	
240-136984-33	MSA-SW49A-092220	Water	09/22/20 09:06	09/23/20 09:50	

Quantitation Limit Exceptions Summary

Client: Tetra Tech, Inc. Job ID: 240-136984-1
Project/Site: MSA Surface Water SDG: MSA FMC

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260C	2-Butanone	Water	Total/NA	ug/L	5.0	10
8260C	2-Hexanone	Water	Total/NA	ug/L	5.0	10
8260C	4-Methyl-2-pentanone	Water	Total/NA	ug/L	5.0	10
8260C	Acetone	Water	Total/NA	ug/L	5.0	10
8260C	Diisopropyl ether	Water	Total/NA	ug/L	5.0	10
8260C	tert-Butyl alcohol	Water	Total/NA	ug/L	20	40
8260C	Vinyl chloride	Water	Total/NA	ug/L	0.50	1

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 378870

Lab Sample ID: STD8260 240-378870/8 IC Client Sample ID:

Date Analyzed: 04/30/19 14:10 Lab File ID: U1269795.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	laveyt	04/30/19 15:28
1,2-Dibromo-3-Chloropropane		Invalid Compound ID	laveyt	04/30/19 15:29
2-Butanone		Invalid Compound ID	laveyt	04/30/19 15:25
2-Hexanone		Invalid Compound ID	laveyt	04/30/19 15:27
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	04/30/19 15:26
Acetone		Invalid Compound ID	laveyt	04/30/19 15:23
Acrolein		Invalid Compound ID	laveyt	04/30/19 15:23
Acrylonitrile		Invalid Compound ID	laveyt	04/30/19 15:24
Isobutyl alcohol		Invalid Compound ID	laveyt	04/30/19 15:25
Methyl acetate		Invalid Compound ID	laveyt	04/30/19 15:24
tert-Butyl alcohol		Invalid Compound ID	laveyt	04/30/19 15:24
Tetrahydrofuran		Invalid Compound ID	laveyt	04/30/19 15:25
trans-1,4-Dichloro-2-butene		Invalid Compound ID	laveyt	04/30/19 15:28
Vinyl acetate		Invalid Compound ID	laveyt	04/30/19 15:25

Lab Sample ID: STD8260 240-378870/13 I Client Sample ID:

Date Analyzed: 04/30/19 16:02 Lab File ID: U1269800.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.58	Split Peak	laveyt	04/30/19 16:22

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 378870

Lab Sample ID: STD8260 240-378870/14 I Client Sample ID:

Date Analyzed: 04/30/19 16:24 Lab File ID: U1269801.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane-d4 (Surr)		Invalid Compound ID	laveyt	04/30/19 16:51
4-Bromofluorobenzene (Surr)		Invalid Compound ID	laveyt	04/30/19 16:52
Acetone		Invalid Compound ID	laveyt	04/30/19 16:45
Chloromethane		Invalid Compound ID	laveyt	04/30/19 16:44
Dibromofluoromethane (Surr)		Invalid Compound ID	laveyt	04/30/19 16:51
Methylene Chloride		Invalid Compound ID	laveyt	04/30/19 16:46
n-Heptane		Invalid Compound ID	laveyt	04/30/19 16:54
Toluene-d8 (Surr)		Invalid Compound ID	laveyt	04/30/19 16:52

Lab Sample ID: STDA9 240-378870/24 IC Client Sample ID:

Date Analyzed: 04/30/19 20:05 Lab File ID: U1269811.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene		Invalid Compound ID	laveyt	05/01/19 13:31
Acetonitrile		Invalid Compound ID	laveyt	05/01/19 13:28
Cyclohexanone		Invalid Compound ID	laveyt	05/01/19 13:29
n-Butanol		Invalid Compound ID	laveyt	05/01/19 13:29
Propionitrile		Invalid Compound ID	laveyt	05/01/19 13:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 442963

Lab Sample ID: STD8260 240-442963/9 IC Client Sample ID:

Date Analyzed: 07/16/20 17:43 Lab File ID: U1279113.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloroethyl vinyl ether	6.09	Invalid Compound ID	laveyt	07/16/20 20:34
4-Methyl-2-pentanone	6.35	Invalid Compound ID	laveyt	07/16/20 20:54
1,2-Dichloroethane-d4 (Surr)		Invalid Compound ID	laveyt	07/16/20 20:28
1,4-Dioxane		Invalid Compound ID	laveyt	07/16/20 20:33
2-Hexanone		Invalid Compound ID	laveyt	07/16/20 20:55
4-Bromofluorobenzene (Surr)		Invalid Compound ID	laveyt	07/16/20 20:28
Acetone		Invalid Compound ID	laveyt	07/16/20 18:54
Chloromethane		Invalid Compound ID	laveyt	07/16/20 20:36
Dibromofluoromethane (Surr)		Invalid Compound ID	laveyt	07/16/20 20:28
Hexane		Invalid Compound ID	laveyt	07/16/20 20:37
n-Heptane		Invalid Compound ID	laveyt	07/16/20 18:56
tert-Butyl alcohol		Invalid Compound ID	laveyt	07/16/20 21:11
Toluene-d8 (Surr)		Invalid Compound ID	laveyt	07/16/20 18:52
Vinyl acetate		Invalid Compound ID	laveyt	07/16/20 20:37

Lab Sample ID: STD8260 240-442963/10 I Client Sample ID:

Date Analyzed: 07/16/20 18:05 Lab File ID: U1279114.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane-d4 (Surr)		Invalid Compound ID	laveyt	07/16/20 20:29
4-Bromofluorobenzene (Surr)		Invalid Compound ID	laveyt	07/16/20 20:29
Dibromofluoromethane (Surr)		Invalid Compound ID	laveyt	07/16/20 20:29
Toluene-d8 (Surr)		Invalid Compound ID	laveyt	07/16/20 20:29

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 442963

Lab Sample ID: STD8260 240-442963/12 I Client Sample ID:

Date Analyzed: 07/16/20 18:50 Lab File ID: U1279116.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.58	Split Peak	laveyt	07/16/20 19:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 453571

Lab Sample ID: CCVIS 240-453571/4 Client Sample ID:

Date Analyzed: 09/29/20 17:51 Lab File ID: U1280877.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	2.76	Split Peak	laveyt	09/29/20 18:23

Lab Sample ID: MB 240-453571/8 Client Sample ID:

Date Analyzed: 09/29/20 19:21 Lab File ID: U1280881a.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/29/20 19:55

Lab Sample ID: 240-136984-14 Client Sample ID: MSA-SW41B-092220

Date Analyzed: 09/29/20 19:43 Lab File ID: U1280882a.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:51

Lab Sample ID: 240-136984-15 Client Sample ID: MSA-SW41C-092220

Date Analyzed: 09/29/20 20:06 Lab File ID: U1280883.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:52

Lab Sample ID: 240-136984-16 Client Sample ID: MSA-SW41D-092220

Date Analyzed: 09/29/20 20:29 Lab File ID: U1280884a.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 453571

Lab Sample ID: 240-136984-17 Client Sample ID: MSA-SW42A-092220

Date Analyzed: 09/29/20 20:51 Lab File ID: U1280885.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:52

Lab Sample ID: 240-136984-18 Client Sample ID: MSA-SW42B-092220

Date Analyzed: 09/29/20 21:14 Lab File ID: U1280886.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:53

Lab Sample ID: 240-136984-19 Client Sample ID: MSA-SW42C-092220

Date Analyzed: 09/29/20 21:36 Lab File ID: U1280887.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:53

Lab Sample ID: 240-136984-20 Client Sample ID: MSA-SW42D-092220

Date Analyzed: 09/29/20 21:58 Lab File ID: U1280888a.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:53

Lab Sample ID: 240-136984-22 Client Sample ID: MSA-SW43B-092220

Date Analyzed: 09/29/20 22:43 Lab File ID: U1280890.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 453571

Lab Sample ID: 240-136984-23 Client Sample ID: MSA-SW43C-092220

Date Analyzed: 09/29/20 23:06 Lab File ID: U1280891.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:54

Lab Sample ID: 240-136984-24 Client Sample ID: MSA-SW43D-092220

Date Analyzed: 09/29/20 23:28 Lab File ID: U1280892a.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:55

Lab Sample ID: 240-136984-25 Client Sample ID: MSA-SW44A-092220

Date Analyzed: 09/29/20 23:50 Lab File ID: U1280893.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:55

Lab Sample ID: 240-136984-26 Client Sample ID: MSA-SW44B-092220

Date Analyzed: 09/30/20 00:13 Lab File ID: U1280894.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:55

Lab Sample ID: 240-136984-27 Client Sample ID: MSA-SW44C-092220

Date Analyzed: 09/30/20 00:36 Lab File ID: U1280895.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:56

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 453571

Lab Sample ID: 240-136984-30 Client Sample ID: MSA-SW46A-092220

Date Analyzed: 09/30/20 01:43 Lab File ID: U1280898.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:56

Lab Sample ID: 240-136984-31 Client Sample ID: MSA-SW47A-092220

Date Analyzed: 09/30/20 02:05 Lab File ID: U1280899.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:57

Lab Sample ID: 240-136984-32 Client Sample ID: MSA-SW48A-092220

Date Analyzed: 09/30/20 02:27 Lab File ID: U1280900.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:57

Lab Sample ID: 240-136984-33 Client Sample ID: MSA-SW49A-092220

Date Analyzed: 09/30/20 02:50 Lab File ID: U1280901.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 13:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 453771

Lab Sample ID: MB 240-453771/8 Client Sample ID:

Date Analyzed: 09/30/20 18:21 Lab File ID: U1280907.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	09/30/20 18:39

Lab Sample ID: 240-136984-4 Client Sample ID: MSA-SW37D-092220

Date Analyzed: 09/30/20 23:58 Lab File ID: U1280922b.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	10/01/20 14:02

Lab Sample ID: 240-136984-5 Client Sample ID: MSA-SW38A-092220

Date Analyzed: 10/01/20 00:21 Lab File ID: U1280923.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	10/01/20 13:50

Lab Sample ID: 240-136984-6 Client Sample ID: MSA-SW38B-092220

Date Analyzed: 10/01/20 00:44 Lab File ID: U1280924b.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	10/01/20 14:03

Lab Sample ID: 240-136984-7 Client Sample ID: MSA-SW38C-092220

Date Analyzed: 10/01/20 01:06 Lab File ID: U1280925.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	10/01/20 13:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Analysis Batch Number: 453771

Lab Sample ID: 240-136984-8 Client Sample ID: MSA-SW38D-092220

Date Analyzed: 10/01/20 01:29 Lab File ID: U1280926b.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	10/01/20 14:03

Lab Sample ID: 240-136984-9 Client Sample ID: MSA-SW40A-092220

Date Analyzed: 10/01/20 01:51 Lab File ID: U1280927.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	10/01/20 13:49

Lab Sample ID: 240-136984-11 Client Sample ID: MSA-SW40C-092220

Date Analyzed: 10/01/20 02:37 Lab File ID: U1280929.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	10/01/20 13:49

Lab Sample ID: 240-136984-12 Client Sample ID: MSA-SW40D-092220

Date Analyzed: 10/01/20 02:59 Lab File ID: U1280930b.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	10/01/20 14:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX16 Analysis Batch Number: 450378

Lab Sample ID: STD8260 240-450378/9 IC Client Sample ID:

Date Analyzed: 09/08/20 12:22 Lab File ID: UXM31022.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Bromofluorobenzene (Surr)	9.72	Invalid Compound ID	bosworthh	09/08/20 15:46
Acrolein		Invalid Compound ID	bosworthh	09/08/20 15:42
Bromomethane		Invalid Compound ID	bosworthh	09/08/20 13:24
Hexane		Invalid Compound ID	bosworthh	09/08/20 15:23
n-Heptane		Invalid Compound ID	bosworthh	09/08/20 15:26

Lab Sample ID: STD8260 240-450378/10 I Client Sample ID:

Date Analyzed: 09/08/20 12:47 Lab File ID: UXM31023.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptane	5.85	Invalid Compound ID	bosworthh	09/08/20 15:27
4-Bromofluorobenzene (Surr)	9.72	Invalid Compound ID	bosworthh	09/08/20 15:46
Bromomethane		Invalid Compound ID	bosworthh	09/08/20 13:32

Lab Sample ID: STD8260 240-450378/14 I Client Sample ID:

Date Analyzed: 09/08/20 14:26 Lab File ID: UXM31027.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Invalid Compound ID	bosworthh	09/08/20 15:39
4-Bromofluorobenzene (Surr)	9.72	Invalid Compound ID	bosworthh	09/08/20 15:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX16 Analysis Batch Number: 450378

Lab Sample ID: STD8260 240-450378/15 I Client Sample ID:

Date Analyzed: 09/08/20 14:50 Lab File ID: UXM31028.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	4.38	Invalid Compound ID	bosworthh	09/08/20 15:24
Isobutyl alcohol	5.50	Invalid Compound ID	bosworthh	09/08/20 15:25
n-Heptane	5.87	Invalid Compound ID	bosworthh	09/08/20 15:26
2-Butanone		Invalid Compound ID	bosworthh	09/08/20 15:12
2-Chloroethyl vinyl ether		Invalid Compound ID	bosworthh	09/08/20 15:14
2-Hexanone		Invalid Compound ID	bosworthh	09/08/20 15:15
4-Bromofluorobenzene (Surr)		Invalid Compound ID	bosworthh	09/08/20 15:51
4-Methyl-2-pentanone		Invalid Compound ID	bosworthh	09/08/20 15:15
Acrolein		Invalid Compound ID	bosworthh	09/08/20 15:10
Bromoform		Invalid Compound ID	bosworthh	09/08/20 15:16
Ethyl methacrylate		Invalid Compound ID	bosworthh	09/08/20 15:15
Hexane		Invalid Compound ID	bosworthh	09/08/20 15:10
Methylcyclohexane		Invalid Compound ID	bosworthh	09/08/20 15:14
tert-Butyl alcohol		Invalid Compound ID	bosworthh	09/08/20 15:10
trans-1,4-Dichloro-2-butene		Invalid Compound ID	bosworthh	09/08/20 15:16

Lab Sample ID: STDA9 240-450378/24 IC Client Sample ID:

Date Analyzed: 09/08/20 18:33 Lab File ID: UXM31037.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pentachloroethane	10.48	Invalid Compound ID	bosworthh	09/09/20 08:24

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX16 Analysis Batch Number: 453487

Lab Sample ID: 240-136984-1 Client Sample ID: MSA-SW37A-092220

Date Analyzed: 09/29/20 19:18 Lab File ID: UXM31410.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide		Invalid Compound ID	bosworthh	09/30/20 07:38

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm50is_stk_A_00003	05/19/19	11/19/18	MEOH, Lot 196628	50 mL	vm30241_00007	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00007	01/31/23		restek, Lot A0134242		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50is_stk_a_00006	08/06/20	02/06/20	MEOH, Lot 230446	50 mL	vm30241_00007	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00007	01/31/23		restek, Lot A0134242		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50is_stk_a_00007	02/07/21	08/07/20	MEOH, Lot 230446	50 mL	vm30241_00007	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00007	01/31/23		restek, Lot A0134242		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00362	04/30/19	04/23/19	MEOH, Lot na	4 mL	vm50ss_stk_00080	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00080	08/20/19	02/20/19	MEOH, Lot 0000196628	200 mL	VM567650_00030	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00030	01/31/22		Restek, Lot A0124069		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00410	07/16/20	07/09/20	MEOH, Lot na	5 mL	vm50ss_stk_00085	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00085	11/21/20	05/21/20	MEOH, Lot 0000230446	200 mL	VM567650_00032	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00032	07/30/23		Restek, Lot A0139582		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00417	09/14/20	09/07/20	MEOH, Lot na	5 mL	vm50ss_stk_00085	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.vm50ss_stk_00085	11/21/20	05/21/20	MEOH, Lot 0000230446	200 mL	VM567650_00032	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00032	07/30/23		Restek, Lot A0139582		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00080	08/20/19	02/20/19	MEOH, Lot 0000196628	200 mL	VM567650_00030	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00030	01/31/22		Restek, Lot A0124069		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00085	11/21/20	05/21/20	MEOH, Lot 0000230446	200 mL	VM567650_00032	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00032	07/30/23		Restek, Lot A0139582		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vmarolistdw_00294	04/30/19	04/25/19	MEOH, Lot na	5 mL	VMACROLSTD_00070	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00070	04/30/19	03/31/19	MEOH, Lot 0000196628	20 mL	VM568720_00032	0.25 mL	Acrolein	250 ug/mL
..VM568720_00032	05/31/19		restek, Lot A0143013		(Purchased Reagent)		Acrolein	20000 ug/mL
vmarolistdw_00352	07/16/20	07/09/20	MEOH, Lot na	5 mL	VMACROLSTD_00085	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00085	08/01/20	07/01/20	MEOH, Lot 0000230446	20 mL	VM568720_00037	0.25 mL	Acrolein	250 ug/mL
..VM568720_00037	04/30/21		restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
vmarolistdw_00359	09/11/20	09/04/20	MEOH, Lot na	5 mL	VMACROLSTD_00087	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00087	10/04/20	09/04/20	MEOH, Lot 0000230446	20 mL	VM568720_00039	0.25 mL	Acrolein	250 ug/mL
..VM568720_00039	07/31/21		restek, Lot A0156861		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00362	10/04/20	09/28/20	MEOH, Lot na	5 mL	VMACROLSTD_00087	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00087	10/04/20	09/04/20	MEOH, Lot 0000230446	20 mL	VM568720_00039	0.25 mL	Acrolein	250 ug/mL
..VM568720_00039	07/31/21		restek, Lot A0156861		(Purchased Reagent)		Acrolein	20000 ug/mL
vmbfb_00021							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00002	1.25 mL	BFB	50 ug/mL
.vm30026_00002	07/31/21		restek, Lot A0120567		(Purchased Reagent)		BFB	2000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vmbfb_00025							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00003	1.25 mL	BFB	50 ug/mL
.vm30026_00003	08/31/23		restek, Lot A0141187		(Purchased Reagent)		BFB	2000 ug/mL
VMFASA9W_00228	04/30/19	04/23/19	MEOH, Lot NA	4 mL	VMFASA9_00016	4 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMFASA9_00016	06/30/19	12/31/18	MEOH, Lot 0000196628	100 mL	VM569727S_00003	2 mL	Cyclohexanone	500 ug/mL
					vm570806S_00005	4 mL	Pentachloroethane	100 ug/mL
					vm570807S_00004	4 mL	2-Methylnaphthalene	100 ug/mL
					VM570808S_00005	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809S_00006	2 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993S_00005	2 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727S_00003	03/31/21		RESTEK, Lot A0136499		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806S_00005	03/31/22		Restek, Lot A0126373		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807S_00004	04/30/22		Restek, Lot A0126553		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808S_00005	08/31/19		Restek, Lot A0135368		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809S_00006	06/30/19		Restek, Lot A0132887		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993S_00005	06/30/20		restek, Lot A0139245		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
VMFASA9W_00290	09/10/20	09/03/20	MEOH, Lot NA	5 mL	VMFASA9_00022	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMFASA9_00022	11/30/20	05/30/20	MEOH, Lot 00000230446	100 mL	VM569727S_00004	2 mL	Cyclohexanone	500 ug/mL
					vm570806S_00005	4 mL	Pentachloroethane	100 ug/mL
					vm570807S_00005	4 mL	2-Methylnaphthalene	100 ug/mL
					VM570808S_00008	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809S_00008	2 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993S_00006	2 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727S_00004	01/31/22		RESTEK, Lot A0144966		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806S_00005	03/31/22		Restek, Lot A0126373		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807S_00005	04/30/22		Restek, Lot A0126553		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808S_00008	04/30/21		Restek, Lot A0154206		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809S_00008	03/31/21		Restek, Lot A0153337		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993S_00006	11/30/20		restek, Lot A0143318		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
VMFASAW_00336	07/23/20	07/16/20	MEOH, Lot NA	5 mL	VMFASA_00064	5 mL	Acrolein	250 ug/mL
.VMFASA_00064	10/09/20	07/09/20	MEOH, Lot 0000230446	100 mL	VM568720S_00036	1.25 mL	Acrolein	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM568720S_00036	04/30/21		restek, Lot A0154553		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00342	09/09/20	09/02/20	MEOH, Lot NA	5 mL	VMFASA_00064	5 mL	Acrolein	250 ug/mL
.VMFASA_00064	10/09/20	07/09/20	MEOH, Lot 0000230446	100 mL	VM568720S_00036	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00036	04/30/21		restek, Lot A0154553		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00367	07/16/20	07/09/20	MEOH, Lot NA	5 mL	VMFASG_00096	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00096	08/01/20	07/01/20	MEOH, Lot 0000230446	100 mL	vm569722S_00007	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00007	10/31/21		Restek, Lot A0142117		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00375	09/11/20	09/04/20	MEOH, Lot NA	5 mL	VMFASG_00098	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00098	10/04/20	09/04/20	MEOH, Lot 0000230446	100 mL	vm569722S_00007	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00007	10/31/21		Restek, Lot A0142117		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00378	10/04/20	09/28/20	MEOH, Lot NA	5 mL	VMFASG_00098	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMFASG_00098	10/04/20	09/04/20	MEOH, Lot 0000230446	100 mL	vm569722S_00007	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00007	10/31/21		Restek, Lot A0142117		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASPW_00358	07/20/20	07/13/20	MEOH, Lot n/a	5 mL	VMRFASP_00067	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00067	09/18/20	06/18/20	MEOH, Lot 0000230446	100 mL	VM569721S_00005	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00008	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00006	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00008	11/30/21		Restek, Lot A0143264		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00029	09/30/21		Restek, Lot A0158728		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00365	09/13/20	09/06/20	MEOH, Lot n/a	5 mL	VMRFASP_00068	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00068	11/05/20	08/05/20	MEOH, Lot 0000230446	100 mL	VM569721S_00005	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00008	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00006	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00008	11/30/21		Restek, Lot A0143264		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00029	09/30/21		Restek, Lot A0158728		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASPW_00367	09/29/20	09/22/20	MEOH, Lot n/a	5 mL	VMRFASP_00069	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00069	12/22/20	09/22/20	MEOH, Lot 0000230446	100 mL	VM569721S_00005	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00008	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00006	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00008	11/30/21		Restek, Lot A0143264		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00029	09/30/21		Restek, Lot A0158728		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00368	10/06/20	09/29/20	MEOH, Lot n/a	5 mL	VMRFASP_00069	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00069	12/22/20	09/22/20	MEOH, Lot 0000230446	100 mL	VM569721S_00005	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00008	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00006	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00008	11/30/21		Restek, Lot A0143264		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00029	09/30/21		Restek, Lot A0158728		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
vmra9w_00295	04/30/19	04/25/19	MEOH, Lot NA	5 mL	VMRA9_00026	5 mL	1-Chloro-1-fluoroethane TIC	50 ug/mL
							Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMRA9_00026	04/30/19	03/31/19	MEOH, Lot 0000196628	50 mL	Freon 151_00004	1 mL	1-Chloro-1-fluoroethane TIC	50 ug/mL
					VM569727_00003	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00003	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00003	2 mL	2-Methylnaphthalene	100 ug/mL
					VM570808_00004	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00005	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00003	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..Freon 151_00004	06/17/19	12/17/18	MEOH, Lot 173605TF	20 mL	Freon 151_00001	0.5 mL	1-Chloro-1-fluoroethane TIC	2500 ug/mL
...Freon 151_00001	06/18/19	SynQuest Laboratories , Inc, Lot 270800			(Purchased Reagent)		1-Chloro-1-fluoroethane TIC	10 %
..VM569727_00003	02/29/20	RESTEK, Lot A0124672			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00003	04/30/22	Restek, Lot A0126447			(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00003	02/28/22	Restek, Lot A0125050			(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808_00004	05/31/19	Restek, Lot A0132816			(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00005	04/30/19		Restek, Lot A0131668		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..VM571993_00003	07/31/20		restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
vmra9w_00359	09/09/20	09/02/20	MEOH, Lot NA	5 mL	VMRA9_00032	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMRA9_00032	01/31/21	07/31/20	MEOH, Lot 0000230446	50 mL	VM569727_00004	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00005	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00005	2 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					VM570808_00006	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM570809_00007	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00004	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727_00004	01/31/22		RESTEK, Lot A0145193		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00005	04/30/22		Restek, Lot A0126478		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..VM570808_00006	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00007	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..VM571993_00004	03/31/22		restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
VMRA9W_00362	10/03/20	09/26/20	MEOH, Lot NA	5 mL	VMRA9_00032	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMRA9_00032	01/31/21	07/31/20	MEOH, Lot 0000230446	50 mL	VM569727_00004	1 mL	Cyclohexanone	500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					vm570806_00005	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00005	2 mL	2-Methylnaphthalene	100 ug/mL
					VM570808_00006	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00007	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993_00004	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727_00004	01/31/22		RESTEK, Lot A0145193		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00005	04/30/22		Restek, Lot A0126478		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808_00006	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00007	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993_00004	03/31/22		restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
vmrgas_00291	05/07/19	04/30/19	MEOH, Lot 0000198123	10 mL	vm569722_00012	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00012	11/30/21		Restek, Lot A0143158		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00347	07/22/20	07/15/20	MEOH, Lot 0000230446	10 mL	vm569722_00015	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00015	11/30/22		Restek, Lot A0154679		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
vmrgas_00353	09/09/20	09/02/20	MEOH, Lot 0000230446	10 mL	vm569722_00017	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00017	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00356	10/03/20	09/26/20	MEOH, Lot 0000258810	10 mL	vm569722_00017	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00017	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
vmrprimw_00331	05/01/19	04/24/19	MEOH, Lot NA	4 mL	VMRPRIM_00035	4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00035	06/30/19	03/01/19	MEOH, Lot 0000196628	50 mL	VM569721_00005	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00007	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00018	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00002	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00005	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00007	12/31/20		restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00018	07/31/19		Restek, Lot A0144661		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00002	06/30/19		Restek, Lot A0123711		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
vmrprimw_00394	07/23/20	07/16/20	MEOH, Lot NA	5 mL	VMRPRIM_00045	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL

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SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00045	08/01/20	05/01/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00003	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00394	07/23/20	07/16/20	MEOH, Lot NA	5 mL	VMRPRIM_00045	5 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00045	08/01/20	05/01/20	MEOH, Lot 0000230446	50 mL	VM571992_00003	1 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM571992_00003	06/30/21	Restek, Lot A0143774			(Purchased Reagent)		Total BTEX	12500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
vmrprimw_00402	09/11/20	09/04/20	MEOH, Lot NA	5 mL	VMRPRIM_00047	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00047	11/27/20	08/27/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00003	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00402	09/11/20	09/04/20	MEOH, Lot NA	5 mL	VMRPRIM_00047	5 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00047	11/27/20	08/27/20	MEOH, Lot 0000230446	50 mL	VM571992_00003	1 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM571992_00003	06/30/21	Restek, Lot A0143774			(Purchased Reagent)		Total BTEX	12500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMRPRIMW_00405	10/05/20	09/28/20	MEOH, Lot NA	5 mL	VMRPRIM_00047	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00047	11/27/20	08/27/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00003	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL

Reagent

vm30026_00002

Rec: 4/11/17 (5)

VM30026-00002

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30026 **Lot No.:** A0120567

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB)	2,019.3 µg/mL	+/- 11.8506	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KOV)		+/- 113.2335	µg/mL	Unstressed
	Purity 99%		+/- 115.8825	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm30026_00003

Rec: 11/28/18
VM30026-00063

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Catalog No. : 30026 **Lot No.:** A0141187

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB)	2,004.7 µg/mL	+/- 11.7645	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 112.4110	µg/mL	Unstressed
	Purity 99%		+/- 115.0408	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm30241_00007

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Catalog No. : 30241 **Lot No.:** A0134242

Description : 8260A Internal Standard Mix

8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Fluorobenzene		2,503.6 µg/mL	+/- 14.5561	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)		+/- 140.3744	µg/mL	Unstressed
	Purity 99%			+/- 143.6590	µg/mL	Stressed
2	Chlorobenzene-d5		2,506.4 µg/mL	+/- 14.5724	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)		+/- 140.5314	µg/mL	Unstressed
	Purity 99%			+/- 143.8196	µg/mL	Stressed
3	1,4-Dichlorobenzene-d4		2,513.4 µg/mL	+/- 14.6131	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)		+/- 140.9238	µg/mL	Unstressed
	Purity 99%			+/- 144.2213	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

VM30241-00007

REC'D 5-4-18

Reagent

VM567650_00030

Rec: 11/2/17
VM567650-00050

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Catalog No. : 567650 **Lot No.:** A0124069

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,521.2 µg/mL	+/- 14.6582	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012016)		+/- 141.3584	µg/mL	Unstressed
	Purity 99%			+/- 144.6660	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,513.8 µg/mL	+/- 14.6157	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-25433)		+/- 140.9489	µg/mL	Unstressed
	Purity 98%			+/- 144.2469	µg/mL	Stressed
3	Toluene-d8		2,519.4 µg/mL	+/- 14.6480	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 141.2603	µg/mL	Unstressed
	Purity 99%			+/- 144.5656	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,520.8 µg/mL	+/- 14.6559	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KOV)		+/- 141.3360	µg/mL	Unstressed
	Purity 99%			+/- 144.6430	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568720_00032

Rec: 3/13/19

VM568720_00032

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0143013

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2019 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein		19,750.0	µg/mL	+/- 115.6406	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 180823JACG)			+/- 633.2471	µg/mL	Unstressed
	Purity 99%				+/- 736.0805	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720_00037

Rec: 1/16/20 VM568720_00037

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0154578

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein			19,810.7	µg/mL	+/-	115.9958	µg/mL	Gravimetric
	CAS #	107-02-8	(Lot D0012019410)			+/-	395.7642	µg/mL	Unstressed
	Purity	99%				+/-	887.8866	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720_00039

Rec: 4/7/20
VM568720-00039

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Catalog No. : 568720 **Lot No.:** A0156861

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein	19,752.0 µg/mL	+/- 115.6523 µg/mL	Gravimetric
	CAS # 107-02-8 (Lot D0012019-1219)		+/- 394.5922 µg/mL	Unstressed
	Purity 99%		+/- 885.2572 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720S_00036

Rec: 1/16/20 VM568720.SEC — 000396

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Catalog No. : 568720.SEC **Lot No.:** A0154553

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,750.0 µg/mL	+/- 115.6405	µg/mL	Gravimetric
	CAS # 107-02-8.SEC (Lot D8402600-1024)		+/- 394.5517	µg/mL	Unstressed
	Purity 97%		+/- 885.1665	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569721_00005

VM569721_00005 Rec: 11/30/18

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0137509

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot SHBH6933) **Purity** 99%	12,619.0 µg/mL	+/- 73.8870 µg/mL +/- 761.4104 µg/mL +/- 763.2179 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBF2461V) **Purity** 99%	12,602.0 µg/mL	+/- 73.7875 µg/mL +/- 760.3846 µg/mL +/- 762.1897 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBH7006) **Purity** 99%	12,531.0 µg/mL	+/- 73.3718 µg/mL +/- 756.1006 µg/mL +/- 757.8955 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBW0198V) **Purity** 99%	12,606.0 µg/mL	+/- 73.8109 µg/mL +/- 760.6260 µg/mL +/- 762.4316 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721_00006

RCL: 12/4/18

VM569721_00006

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0137509

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot SHBH6933) **Purity** 99%	12,619.0 µg/mL	+/- 73.8870 µg/mL +/- 761.4104 µg/mL +/- 763.2179 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBF2461V) **Purity** 99%	12,602.0 µg/mL	+/- 73.7875 µg/mL +/- 760.3846 µg/mL +/- 762.1897 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBH7006) **Purity** 99%	12,531.0 µg/mL	+/- 73.3718 µg/mL +/- 756.1006 µg/mL +/- 757.8955 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBW0198V) **Purity** 99%	12,606.0 µg/mL	+/- 73.8109 µg/mL +/- 760.6260 µg/mL +/- 762.4316 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721S_00005

Rec: 6/15/18 20 vials

VM569721S-00005

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Catalog No. : 569721.SEC **Lot No.:** A0133078

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.8 µg/mL	+/- 73.2184 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot P14A572)		+/- 754.5197 µg/mL	Unstressed
	Purity 99%		+/- 756.3109 µg/mL	Stressed
2	2-Butanone (MEK)	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RA58J)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,500.8 µg/mL	+/- 73.1949 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.2784 µg/mL	Unstressed
	Purity 99%		+/- 756.0689 µg/mL	Stressed
4	2-Hexanone	12,503.6 µg/mL	+/- 73.2113 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot V3NRA)		+/- 754.4473 µg/mL	Unstressed
	Purity 99%		+/- 756.2383 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

vm569722_00012

Acc: 1/23/19

VM569722-00012

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0143158

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,500.9 µg/mL	+/- 17.2023 µg/mL +/- 140.5234 µg/mL +/- 143.7976 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBJ6334) **Purity** 99%	2,500.4 µg/mL	+/- 17.0791 µg/mL +/- 140.4796 µg/mL +/- 143.7534 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00012557) **Purity** 99%	2,500.4 µg/mL	+/- 16.5693 µg/mL +/- 140.4224 µg/mL +/- 143.6977 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.1 µg/mL	+/- 17.0785 µg/mL +/- 140.4623 µg/mL +/- 143.7357 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,500.9 µg/mL	+/- 16.5511 µg/mL +/- 140.4457 µg/mL +/- 143.7217 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,502.0 µg/mL	+/- 16.0409 µg/mL +/- 140.4480 µg/mL +/- 143.7268 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 7766400) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,500.8	µg/mL	+/-	17.8012	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBH4155V)			+/-	140.5946	µg/mL	Unstressed
	Purity 99%				+/-	143.8670	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

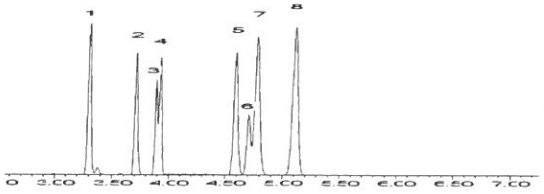
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician **Date Mixed:** 12-Nov-2018 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 11-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

vm569722_00015

Rec: 4/14/20
VM569722_0005

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Catalog No. : 569722 **Lot No.:** A0154679

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.7 µg/mL	+/- 18.2705 µg/mL +/- 140.7566 µg/mL +/- 144.0300 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.3 µg/mL	+/- 18.7547 µg/mL +/- 140.6865 µg/mL +/- 143.9553 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,501.1 µg/mL	+/- 18.5858 µg/mL +/- 140.7083 µg/mL +/- 143.9787 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,497.1 µg/mL	+/- 17.5808 µg/mL +/- 140.3628 µg/mL +/- 143.6309 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,500.8 µg/mL	+/- 23.3138 µg/mL +/- 141.3956 µg/mL +/- 144.6498 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,499.0 µg/mL	+/- 21.4252 µg/mL +/- 140.9973 µg/mL +/- 144.2558 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,499.6	µg/mL	+/-	21.2368	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot 25931)			+/-	141.0019	µg/mL	Unstressed
	Purity 99%				+/-	144.2618	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

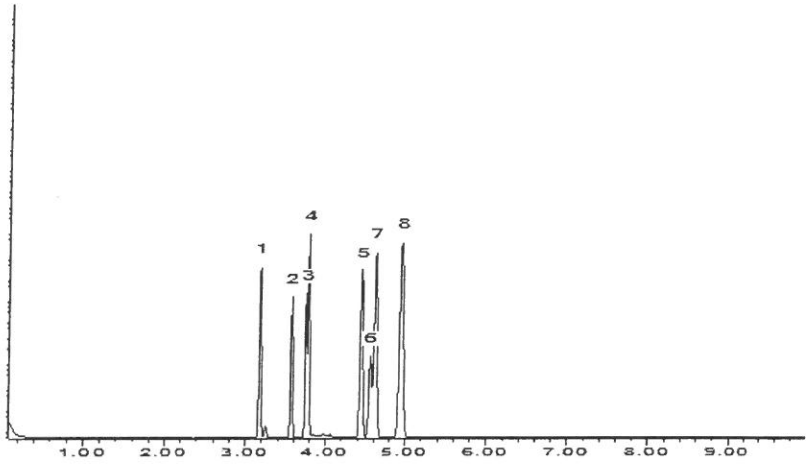
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 04-Nov-2019 **Balance:** B707717271

Feng-Yun Lo - QC Analyst

Date Passed: 10-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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Rec! 6/29/20
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 +/- 140.5076 +/- 143.7858	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 +/- 140.4038 +/- 143.6799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 +/- 140.4890 +/- 143.7623	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 +/- 140.5681 +/- 143.8406	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 +/- 140.4450 +/- 143.7217	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 +/- 140.5555 +/- 143.8274	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 +/- 140.1725 +/- 143.4524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

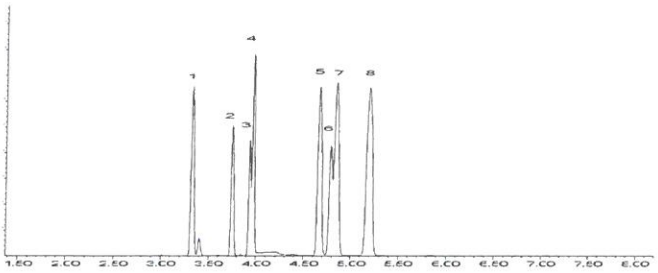
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

vm569722S_00007

VM569722S-00007

Rec: 1-23-19

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0142117

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,503.0 µg/mL	+/- 23.3708 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 24847)		+/- 141.5277 µg/mL	Unstressed
	Purity 99%		+/- 144.7846 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,497.4 µg/mL	+/- 25.3963 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 141.5662 µg/mL	Unstressed
	Purity 99%		+/- 144.8078 µg/mL	Stressed
3	Vinyl chloride	2,501.8 µg/mL	+/- 19.5755 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 140.8855 µg/mL	Unstressed
	Purity 99%		+/- 144.1539 µg/mL	Stressed
4	1,3-Butadiene	2,505.3 µg/mL	+/- 20.9927 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 22331)		+/- 141.2797 µg/mL	Unstressed
	Purity 99%		+/- 144.5480 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,498.6 µg/mL	+/- 25.6449 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 141.6796 µg/mL	Unstressed
	Purity 99%		+/- 144.9218 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,498.9 µg/mL	+/- 24.9623 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 141.5741 µg/mL	Unstressed
	Purity 99%		+/- 144.8194 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.6714 µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 7766400)		+/- 140.1867 µg/mL	Unstressed
	Purity 99%		+/- 143.4662 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.7 µg/mL	+/-	23.1926	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)		+/-	141.4285	µg/mL	Unstressed
	Purity 99%			+/-	144.6844	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

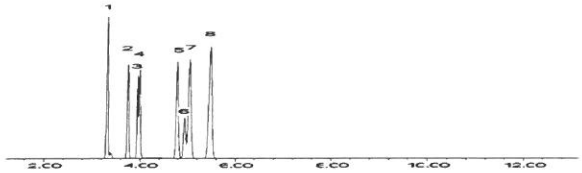
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 04-Oct-2018 **Balance:** 1127510105

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-Oct-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM569723_00007

vm569723_00007

Rec: 12/4/18

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723 **Lot No.:** A0133302

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,511.5 µg/mL	+/- 14.7391	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 53.8098	µg/mL	Unstressed
	Purity 98%		+/- 55.3720	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569723_00008

Rec: 9/9/19
VM569723-00008

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Catalog No. : 569723 **Lot No.:** A0146250

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 53.5253	µg/mL	Unstressed
	Purity 99%		+/- 55.0814	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569723S_00008

Rec: 9/9/19
VM569723s-00008

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Catalog No. : 569723.SEC **Lot No.:** A0143264

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,502.8 µg/mL	+/- 14.6878	µg/mL	Gravimetric
	CAS # 110-75-8.SEC (Lot BQZ2K-QD)		+/- 53.6224	µg/mL	Unstressed
	Purity 99%		+/- 55.1792	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569724_00018

Rec: 2/15/19

VM569724_00018

(10)

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Catalog No. : 569724 **Lot No.:** A0144661

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2019 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,050.0 µg/mL	+/- 29.6362	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBD7333V)		+/- 304.7155	µg/mL	Unstressed
	Purity 99%		+/- 305.4388	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569724_00024

Rcd 4-20-20 VM569724_00024

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Catalog No. : 569724 **Lot No.:** A0156559

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate		5,040.0 µg/mL	+/- 29.5103	µg/mL	Gravimetric
	CAS # 108-05-4	(Lot 192709KJ)		+/- 304.1056	µg/mL	Unstressed
	Purity 99%			+/- 304.8275	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
08 April 2020
Expiration date extended from July 31, 2020 to July 31, 2021.

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569724S_00029

Rec'd: 4/20/19 VM5697245_00029

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Catalog No. : 569724.SEC **Lot No.:** A0158728

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,034.0 µg/mL	+/- 29.5423	µg/mL	Gravimetric
	CAS # 108-05-4.SEC (Lot 190320CGKJ)		+/- 303.7501	µg/mL	Unstressed
	Purity 99%		+/- 304.4711	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
08 April 2020
Expiration date extended from September 30, 2020 to September 30, 2021.

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569727_00003

VMS69727_0003 Rec! 1/11/18

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Catalog No. : 569727 **Lot No.:** A0124672

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000 µg/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2020 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,006.0 µg/mL	+/- 146.4156 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKBN5282V)		+/- 1,508.8223 µg/mL	Unstressed
	Purity 99%		+/- 1,512.4040 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727_00004

Rec: 9/9/19
VM569727_00004
(10)

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Catalog No. : 569727 **Lot No.:** A0145193

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Cyclohexanone		25,008.5 µg/mL	+/-	146.4305	µg/mL	Gravimetric
	CAS # 108-94-1	(Lot MKCD4357)		+/-	1,508.9751	µg/mL	Unstressed
	Purity 99%			+/-	1,512.5572	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727S_00003

Rec: 8/23/18

VM569727S-00003

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Catalog No. : 569727.SEC **Lot No.:** A0136499

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2021 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,006.0 µg/mL	+/- 146.4156 µg/mL	Gravimetric
	CAS # 108-94-1.SEC (Lot U3QCA-PN)		+/- 1,508.8223 µg/mL	Unstressed
	Purity 99%		+/- 1,512.4040 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727S_00004

Rec: 9/9/19 (14)
VM569727S - 0000Y

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Catalog No. : 569727.SEC **Lot No.:** A0144966

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	25,036.0 µg/mL	+/- 146.5913	µg/mL	Gravimetric
	CAS # 108-94-1.SEC (Lot ZEHPG)		+/- 1,510.6324	µg/mL	Unstressed
	Purity 99%		+/- 1,514.2184	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

vm570806_00003

VM570806-00003 Rec: 12/1/17

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Catalog No. : 570806 **Lot No.:** A0126447

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	2,519.0 µg/mL	+/- 14.7829 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 160830B-BL2)		+/- 141.2521 µg/mL	Unstressed
	Purity 99%		+/- 144.5566 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570806_00005

Rec: 6/19/19
VMS70806_00005

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Catalog No. : 570806 **Lot No.:** A0140938

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,501.0 µg/mL	+/- 14.6773	µg/mL	Gravimetric
	CAS # 76-01-7 (Lot L7GVM)		+/- 140.2428	µg/mL	Unstressed
	Purity 99%		+/- 143.5236	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570806S_00005

VM570806s-00005 Rec: 12/4/18

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Catalog No. : 570806.sec **Lot No.:** A0126373

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,513.5 µg/mL	+/- 14.7506	µg/mL	Gravimetric
	CAS # 76-01-7.SEC (Lot 5854000)		+/- 140.9437	µg/mL	Unstressed
	Purity 99%		+/- 144.2410	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807_00003

VM570807_00003
Rec: 12/1/17

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Catalog No. : 570807 **Lot No.:** A0125050

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Methylnaphthalene		2,511.8 µg/mL	+/- 14.7406	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBF0201V)		+/- 140.8484	µg/mL	Unstressed
	Purity 95%			+/- 144.1434	µg/mL	Stressed
2	1-Methylnaphthalene		2,514.2 µg/mL	+/- 14.7547	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 523400-9)		+/- 140.9824	µg/mL	Unstressed
	Purity 98%			+/- 144.2806	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807_00005

Rev: 4/19/14

VM570807_00005

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Catalog No. : 570807 **Lot No.:** A0126478

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene	2,501.4 µg/mL	+/- 14.6793 µg/mL	Gravimetric
	CAS # 91-57-6 (Lot STBF0201V)		+/- 140.2624 µg/mL	Unstressed
	Purity 95%		+/- 143.5437 µg/mL	Stressed
2	1-Methylnaphthalene	2,505.9 µg/mL	+/- 14.7058 µg/mL	Gravimetric
	CAS # 90-12-0 (Lot 523400-9)		+/- 140.5153 µg/mL	Unstressed
	Purity 98%		+/- 143.8025 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807S_00004

VM570807s - 00004 Rec: 1/11/18

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Catalog No. : 570807.sec **Lot No.:** A0126553

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene **CAS #** 91-57-6.SEC (Lot 76023-1) **Purity** 98%	2,451.0 µg/mL	+/- 14.3837 µg/mL +/- 137.4379 µg/mL +/- 140.6532 µg/mL	Gravimetric Unstressed Stressed
2	1-Methylnaphthalene **CAS #** 90-12-0.SEC (Lot UATSA) **Purity** 97%	2,507.5 µg/mL	+/- 14.7151 µg/mL +/- 140.6045 µg/mL +/- 143.8938 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807S_00005

VMS70807S-00005

Rec: 12/4/18

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Catalog No. : 570807.sec **Lot No.:** A0126553

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene	2,451.0 µg/mL	+/- 14.3837 µg/mL	Gravimetric
	CAS # 91-57-6.SEC (Lot 76023-1)		+/- 137.4379 µg/mL	Unstressed
	Purity 98%		+/- 140.6532 µg/mL	Stressed
2	1-Methylnaphthalene	2,507.5 µg/mL	+/- 14.7151 µg/mL	Gravimetric
	CAS # 90-12-0.SEC (Lot UATSA)		+/- 140.6045 µg/mL	Unstressed
	Purity 97%		+/- 143.8938 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570808_00004

VM570808_00004 Rec: 1/11/18

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0132816

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBG8138V) **Purity** 99%	25,038.4 µg/mL	+/- 146.6053 µg/mL +/- 1,238.7172 µg/mL +/- 1,269.5131 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 170628JLM) **Purity** 99%	2,522.0 µg/mL	+/- 14.8005 µg/mL +/- 124.7741 µg/mL +/- 127.8760 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012014) **Purity** 99%	25,034.4 µg/mL	+/- 146.5819 µg/mL +/- 1,238.5193 µg/mL +/- 1,269.3102 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBF8066V) **Purity** 99%	2,512.8 µg/mL	+/- 14.7465 µg/mL +/- 124.3190 µg/mL +/- 127.4095 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBH5137V) **Purity** 98%	62,503.6 µg/mL	+/- 365.9535 µg/mL +/- 3,092.2204 µg/mL +/- 3,169.0963 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,015.6 µg/mL	+/- 29.3677 µg/mL +/- 248.1373 µg/mL +/- 254.3062 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot 05107LK) **Purity** 98%	2,502.5 µg/mL	+/- 14.6862 µg/mL +/- 123.8108 µg/mL +/- 126.8886 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8 **Purity** 97%	(Lot 877605-14)	2,505.7 µg/mL	+/- 14.7049 +/- 123.9679 +/- 127.0497	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7 **Purity** 99%	(Lot SHBB7346V)	2,507.2 µg/mL	+/- 14.7137 +/- 124.0419 +/- 127.1255	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	2,502.4 µg/mL	+/- 14.6855 +/- 123.8044 +/- 126.8822	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

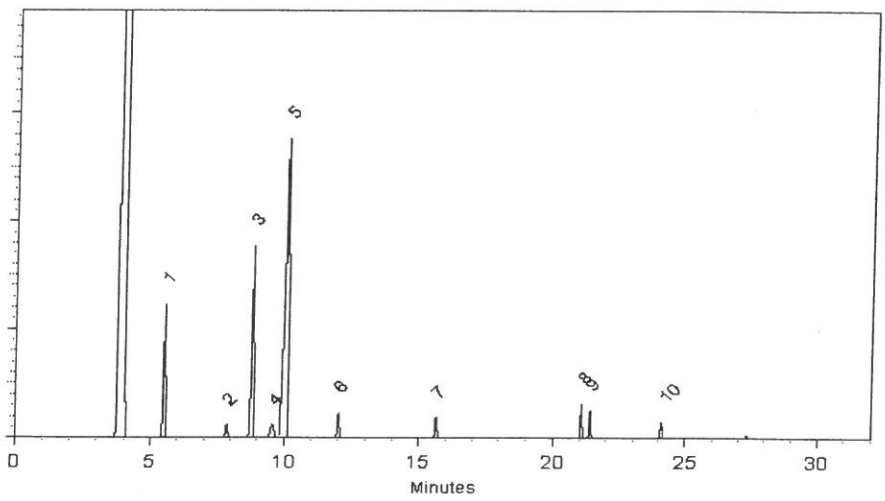
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 29-Nov-2017 **Balance:** B707717271

Amanda Miller - Operations Tech-ARM QC

Date Passed: 01-Dec-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

VM570808_00006

Rec: 6-11-20
VM570808_00006

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0154734

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBH7211) **Purity** 99%	25,135.0 µg/mL	+/- 147.1710 µg/mL +/- 1,243.4963 µg/mL +/- 1,274.4109 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 190814JLM) **Purity** 99%	2,523.5 µg/mL	+/- 14.8093 µg/mL +/- 124.8483 µg/mL +/- 127.9520 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012019) **Purity** 99%	25,164.0 µg/mL	+/- 147.3408 µg/mL +/- 1,244.9310 µg/mL +/- 1,275.8813 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBD2922V) **Purity** 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 124.2794 µg/mL +/- 127.3689 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBK4786) **Purity** 99%	63,024.5 µg/mL	+/- 369.0033 µg/mL +/- 3,117.9899 µg/mL +/- 3,195.5065 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,009.8 µg/mL	+/- 29.3332 µg/mL +/- 247.8464 µg/mL +/- 254.0081 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot BCBS3368V) **Purity** 98%	2,516.6 µg/mL	+/- 14.7691 µg/mL +/- 124.5090 µg/mL +/- 127.6042 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8 **Purity** 98%	(Lot 877605-12)	2,510.3 µg/mL	+/- 14.7317 +/- 124.1938 +/- 127.2812	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7 **Purity** 99%	(Lot SHBH2102V)	2,516.0 µg/mL	+/- 14.7653 +/- 124.4773 +/- 127.5717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	2,523.0 µg/mL	+/- 14.8064 +/- 124.8236 +/- 127.9267	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

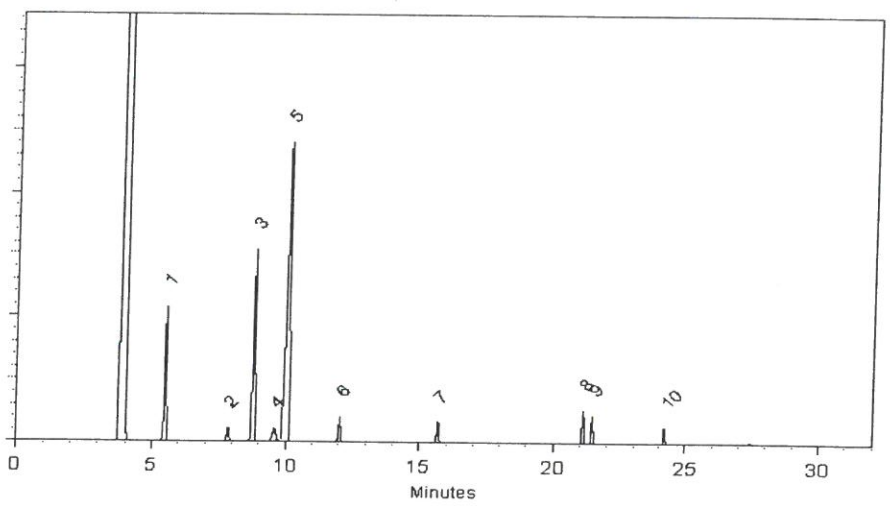
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 05-Nov-2019 **Balance:** B707717271

Fang-Yun Le - QC Analyst

Date Passed: 07-Nov-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

VM570808S_00005

Rec: 6/15/18 10 vials

VM570808S-00005

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0135368

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0.SEC (Lot NWVYK) **Purity** 98%	24,998.8 µg/mL	+/- 146.3736 µg/mL +/- 1,236.7591 µg/mL +/- 1,267.5062 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 * (Lot 180302JLM) **Purity** 99%	2,521.5 µg/mL	+/- 14.7976 µg/mL +/- 124.7494 µg/mL +/- 127.8506 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 * (Lot 1012014) **Purity** 99%	25,005.5 µg/mL	+/- 146.4127 µg/mL +/- 1,237.0896 µg/mL +/- 1,267.8449 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) **CAS #** 540-84-1.SEC (Lot 4597900) **Purity** 99%	2,511.0 µg/mL	+/- 14.7360 µg/mL +/- 124.2299 µg/mL +/- 127.3182 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3.SEC (Lot QBO2D) **Purity** 99%	62,527.5 µg/mL	+/- 366.0934 µg/mL +/- 3,093.4020 µg/mL +/- 3,170.3073 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9.SEC (Lot Y4YWD) **Purity** 98%	5,030.3 µg/mL	+/- 29.4537 µg/mL +/- 248.8645 µg/mL +/- 255.0515 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5.SEC (Lot 3890000) **Purity** 98%	2,506.8 µg/mL	+/- 14.7115 µg/mL +/- 124.0241 µg/mL +/- 127.1073 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8.SEC **Purity** 92%	(Lot 7110200)	2,497.8 µg/mL	+/- 14.6585 +/- 123.5769 +/- 126.6489	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7.SEC **Purity** 99%	(Lot H29N03)	2,522.5 µg/mL	+/- 14.8034 +/- 124.7989 +/- 127.9013	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3.SEC **Purity** 99%	(Lot I28U021)	2,515.0 µg/mL	+/- 14.7594 +/- 124.4278 +/- 127.5210	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

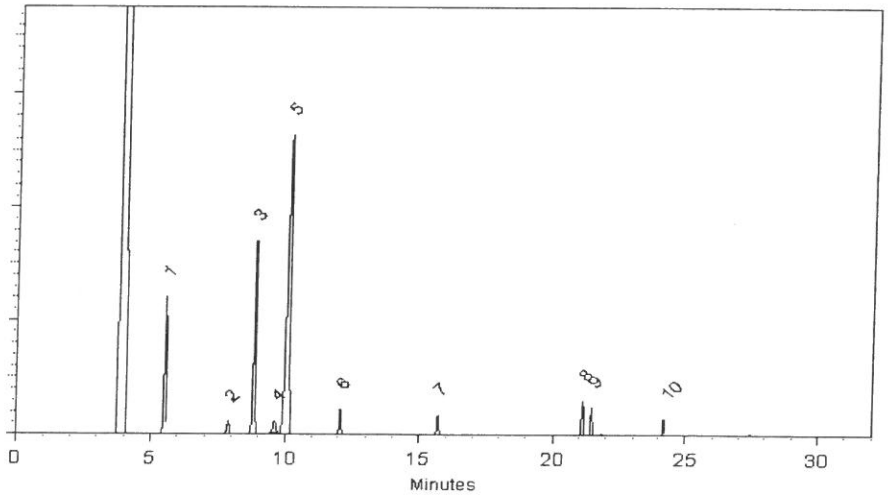
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Larry J. Moore - Mix Technician **Date Mixed:** 19-Feb-2018 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 12-Mar-2018

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

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Rec: 5-4-20
VMS70808S_00008

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0154206

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0.SEC (Lot NWVYK) **Purity** 99%	25,035.5 µg/mL	+/- 146.5884 µg/mL +/- 1,238.5738 µg/mL +/- 1,269.3660 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 * (Lot 190814JLM) **Purity** 99%	2,506.0 µg/mL	+/- 14.7066 µg/mL +/- 123.9825 µg/mL +/- 127.0647 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 * (Lot 1012019) **Purity** 99%	25,025.5 µg/mL	+/- 146.5298 µg/mL +/- 1,238.0790 µg/mL +/- 1,268.8590 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) **CAS #** 540-84-1.SEC (Lot 4597900) **Purity** 99%	2,525.0 µg/mL	+/- 14.8181 µg/mL +/- 124.9226 µg/mL +/- 128.0281 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3.SEC (Lot ELBOC) **Purity** 99%	62,526.5 µg/mL	+/- 366.0875 µg/mL +/- 3,093.3525 µg/mL +/- 3,170.2566 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9.SEC (Lot Y4YWD) **Purity** 98%	5,006.8 µg/mL	+/- 29.3160 µg/mL +/- 247.7009 µg/mL +/- 253.8590 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5.SEC (Lot 8171700) **Purity** 99%	2,501.0 µg/mL	+/- 14.6773 µg/mL +/- 123.7352 µg/mL +/- 126.8112 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,502.6	µg/mL	+/-	14.6867	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 8658900)			+/-	123.8143	µg/mL	Unstressed
	Purity 97%				+/-	126.8923	µg/mL	Stressed
9	Benzyl chloride		2,506.0	µg/mL	+/-	14.7066	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	123.9825	µg/mL	Unstressed
	Purity 99%				+/-	127.0647	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,518.5	µg/mL	+/-	14.7800	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	124.6010	µg/mL	Unstressed
	Purity 99%				+/-	127.6985	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

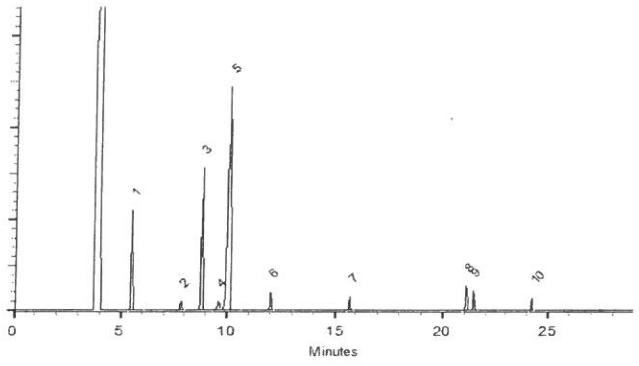
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 22-Oct-2019 **Balance:** 1128342314

Justine Albertson - Operations Tech-ARM QC

Date Passed: 25-Oct-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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Rec: 1/11/18
V M570809_00005

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0131668

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6 (Lot SHBG6401V) **Purity** 99%	5,019.0 µg/mL	+/- 29.3873 µg/mL +/- 302.8385 µg/mL +/- 303.5574 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,521.0 µg/mL	+/- 14.7946 µg/mL +/- 152.1164 µg/mL +/- 152.4775 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKBV3172V) **Purity** 99%	5,027.5 µg/mL	+/- 29.4371 µg/mL +/- 303.3514 µg/mL +/- 304.0715 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBH0056V) **Purity** 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 151.5733 µg/mL +/- 151.9331 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570809_00007

Rec: 4/20/20
VM570809_00007

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0156071

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6 (Lot SHBL1336) **Purity** 99%	5,015.6 µg/mL	+/- 29.3674 µg/mL +/- 302.6333 µg/mL +/- 303.3517 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,508.8 µg/mL	+/- 14.7230 µg/mL +/- 151.3803 µg/mL +/- 151.7396 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKCG6589) **Purity** 99%	5,015.2 µg/mL	+/- 29.3651 µg/mL +/- 302.6092 µg/mL +/- 303.3275 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBK5137) **Purity** 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 151.5733 µg/mL +/- 151.9331 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570809S_00006

Rec: 10/4/18

VM570809S-00006

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.SEC **Lot No.:** A0132887

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate **CAS #** 141-78-6.SEC **Purity** 99%	(Lot C386A-GG)	5,015.5 µg/mL	+/- 29.3669 +/- 302.6273 +/- 303.3457	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5.SEC **Purity** 99%	(Lot YIFAM-TG)	2,515.0 µg/mL	+/- 14.7594 +/- 151.7544 +/- 152.1146	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6.SEC **Purity** 99%	(Lot G01X021)	5,026.5 µg/mL	+/- 29.4313 +/- 303.2910 +/- 304.0110	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4.SEC **Purity** 99%	(Lot V2L2G-GT)	2,508.0 µg/mL	+/- 14.7183 +/- 151.3320 +/- 151.6912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570809S_00008

Rec: 5/4/20
VM570809S-00008

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.SEC **Lot No.:** A0153337

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6.SEC (Lot C386A-GG) **Purity** 99%	5,020.0 µg/mL	+/- 29.3932 µg/mL +/- 302.8988 µg/mL +/- 303.6179 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5.SEC (Lot YIFAM-TG) **Purity** 99%	2,514.0 µg/mL	+/- 14.7536 µg/mL +/- 151.6940 µg/mL +/- 152.0541 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6.SEC (Lot G01X021) **Purity** 99%	5,042.5 µg/mL	+/- 29.5249 µg/mL +/- 304.2564 µg/mL +/- 304.9787 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4.SEC (Lot V2L2G-GT) **Purity** 99%	2,502.5 µg/mL	+/- 14.6861 µg/mL +/- 151.0001 µg/mL +/- 151.3585 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM571992_00002

Rec: 6/15/18 20 vials

VMS71992_00002

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0123711

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBG1462V) **Purity** 99%	2,501.3 µg/mL	+/- 14.5425 µg/mL +/- 150.9115 µg/mL +/- 151.2698 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,505.1 µg/mL	+/- 14.5650 µg/mL +/- 151.1453 µg/mL +/- 151.5041 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,511.5 µg/mL	+/- 14.6021 µg/mL +/- 151.5299 µg/mL +/- 151.8897 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBF0688V) **Purity** 99%	25,001.8 µg/mL	+/- 145.3547 µg/mL +/- 1,508.4656 µg/mL +/- 1,512.0470 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.5 µg/mL	+/- 29.0733 µg/mL +/- 301.7023 µg/mL +/- 302.4186 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBF2149V) **Purity** 99%	2,502.9 µg/mL	+/- 14.5519 µg/mL +/- 151.0095 µg/mL +/- 151.3681 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot SHBF8133V) **Purity** 99%	2,517.1 µg/mL	+/- 14.6348 µg/mL +/- 151.8693 µg/mL +/- 152.2299 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBH2578V)	2,502.1 µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot S20A856)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot T07B2030)	25,001.3 µg/mL	+/- 145.3518 +/- 1,508.4355 +/- 1,512.0167	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBG2655V)	2,505.3 µg/mL	+/- 14.5657 +/- 151.1528 +/- 151.5117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 98%	(Lot MKBV2831V)	2,500.5 µg/mL	+/- 14.5379 +/- 150.8644 +/- 151.2226	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBG2674V)	2,503.8 µg/mL	+/- 14.5570 +/- 151.0623 +/- 151.4210	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 00008621)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 98%	(Lot BCBR0622V)	2,501.0 µg/mL	+/- 14.5408 +/- 150.8940 +/- 151.2522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot 09431AEV)	2,503.8 µg/mL	+/- 14.5570 +/- 151.0623 +/- 151.4210	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBG8201V)	62,512.5 µg/mL	+/- 363.4341 +/- 3,771.6543 +/- 3,780.6088	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot MKBV2089V)	2,501.9 µg/mL	+/- 14.5461 +/- 150.9492 +/- 151.3076	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 99%	(Lot 00004559)	2,503.3 µg/mL	+/- 14.5541 +/- 151.0322 +/- 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBG2910V)	5,001.3 µg/mL	+/- 29.0777 +/- 301.7476 +/- 302.4640	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKBX4768V)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 160727JLM)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBG1763V)	2,503.3 µg/mL	+/- 14.5541 +/- 151.0322 +/- 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBG6171V)	2,505.5 µg/mL	+/- 14.5672 +/- 151.1679 +/- 151.5268	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBF9313V)	2,504.8 µg/mL	+/- 14.5628 +/- 151.1227 +/- 151.4815	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBH2056V)	2,506.9 µg/mL	+/- 14.5752 +/- 151.2509 +/- 151.6100	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,502.4 µg/mL	+/- 14.5490 +/- 150.9794 +/- 151.3378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 98%	(Lot SHBG0634V)	2,500.3 µg/mL	+/- 14.5372 +/- 150.8570 +/- 151.2152	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot 01113D0V)	2,503.0 µg/mL	+/- 14.5527 +/- 151.0171 +/- 151.3756	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBH2584V)	50,011.4 µg/mL	+/- 290.7552 +/- 3,017.4064 +/- 3,024.5702	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 98%	(Lot 10183283)	2,501.9 µg/mL	+/- 14.5465 +/- 150.9531 +/- 151.3115	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 22622)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBH1932V)	2,504.3 µg/mL	+/- 14.5599 +/- 151.0925 +/- 151.4512	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot SHBD9190V)	2,506.9 µg/mL	+/- 14.5752 +/- 151.2509 +/- 151.6100	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 99%	(Lot C584177)	2,503.6 µg/mL	+/- 14.5563 +/- 151.0548 +/- 151.4134	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,503.5 µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBD9374V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKBW3597V)	2,500.2 µg/mL	+/- 14.5365 +/- 150.8497 +/- 151.2078	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBF0505V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBG4347V)	1,250.3 µg/mL	+/- 7.2691 +/- 75.4331 +/- 75.6122	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBG3928V)	1,251.3 µg/mL	+/- 7.2749 +/- 75.4935 +/- 75.6727	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBG5920V)	2,503.3 µg/mL	+/- 14.5541 +/- 151.0322 +/- 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH3432V)	2,504.9 µg/mL	+/- 14.5636 +/- 151.1302 +/- 151.4890	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBS7097V)	2,506.3 µg/mL	+/- 14.5716 +/- 151.2132 +/- 151.5722	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBD8459V)	2,502.9 µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 97%	(Lot MKBW5506V)	2,506.8 µg/mL	+/- 14.5750 +/- 151.2490 +/- 151.6081	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,508.5 µg/mL	+/- 14.5846 +/- 151.3489 +/- 151.7082	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 95%	(Lot MKBP6041V)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8817 +/- 151.2399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	2,501.9 µg/mL	+/- 14.5461 +/- 150.9492 +/- 151.3076	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene		2,507.0 µg/mL	+/- 14.5759	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot MKBD4032V)		+/- 151.2584	µg/mL	Unstressed
	Purity 99%			+/- 151.6175	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,501.1 µg/mL	+/- 14.5418	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBQ2165V)		+/- 150.9040	µg/mL	Unstressed
	Purity 99%			+/- 151.2622	µg/mL	Stressed
58	2-Chlorotoluene		2,500.6 µg/mL	+/- 14.5388	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKBW5554V)		+/- 150.8738	µg/mL	Unstressed
	Purity 99%			+/- 151.2320	µg/mL	Stressed
59	4-Chlorotoluene		2,501.3 µg/mL	+/- 14.5425	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKBL7753V)		+/- 150.9115	µg/mL	Unstressed
	Purity 99%			+/- 151.2698	µg/mL	Stressed
60	tert-Butylbenzene		2,507.0 µg/mL	+/- 14.5759	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot S52237V)		+/- 151.2584	µg/mL	Unstressed
	Purity 99%			+/- 151.6175	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,500.8 µg/mL	+/- 14.5401	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBJ6229V)		+/- 150.8866	µg/mL	Unstressed
	Purity 98%			+/- 151.2448	µg/mL	Stressed
62	sec-Butylbenzene		2,505.4 µg/mL	+/- 14.5665	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBR9260V)		+/- 151.1604	µg/mL	Unstressed
	Purity 99%			+/- 151.5193	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,503.8 µg/mL	+/- 14.5570	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKBS2604V)		+/- 151.0623	µg/mL	Unstressed
	Purity 99%			+/- 151.4210	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,503.9 µg/mL	+/- 14.5577	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBM5751V)		+/- 151.0699	µg/mL	Unstressed
	Purity 99%			+/- 151.4285	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.9 µg/mL	+/- 14.5926	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS1350V)		+/- 151.4319	µg/mL	Unstressed
	Purity 99%			+/- 151.7914	µg/mL	Stressed
66	n-Butylbenzene		2,503.3 µg/mL	+/- 14.5541	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJV)		+/- 151.0322	µg/mL	Unstressed
	Purity 99%			+/- 151.3907	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,503.8 µg/mL	+/- 14.5570	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBD7331V)		+/- 151.0623	µg/mL	Unstressed
	Purity 99%			+/- 151.4210	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,505.0 µg/mL	+/- 14.5643	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)		+/- 151.1378	µg/mL	Unstressed
	Purity 99%			+/- 151.4966	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,505.3 µg/mL	+/- 14.5657	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBC5541V)		+/- 151.1528	µg/mL	Unstressed
	Purity 99%			+/- 151.5117	µg/mL	Stressed
70	Hexachlorobutadiene		2,506.5 µg/mL	+/- 14.5728	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)		+/- 151.2266	µg/mL	Unstressed
	Purity 98%			+/- 151.5856	µg/mL	Stressed
71	Naphthalene		2,500.9 µg/mL	+/- 14.5403	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBW2603V)		+/- 150.8889	µg/mL	Unstressed
	Purity 99%			+/- 151.2471	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,511.1 µg/mL	+/-	14.5999	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	151.5073	µg/mL	Unstressed
	Purity 99%			+/-	151.8670	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

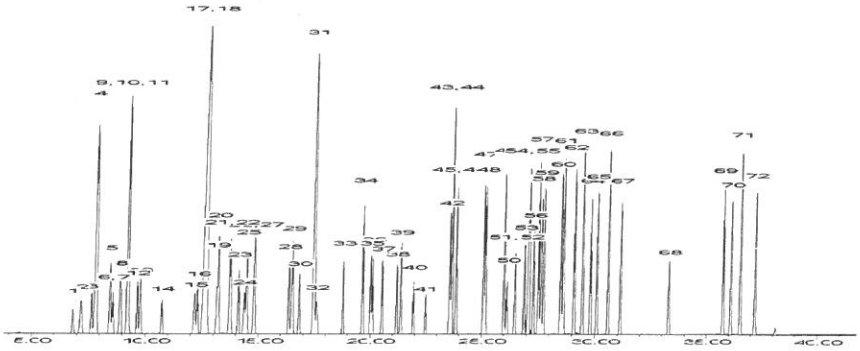
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 22-Dec-2016 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 04-Jan-2017

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571992_00003

Rec: 5/31/19
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1 µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6 µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- 14.5493 +/- 150.9827 +/- 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- 7.2763 +/- 75.5085 +/- 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- 7.2683 +/- 75.4256 +/- 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- 14.5355 +/- 150.8389 +/- 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/- 14.5348 +/- 150.8320 +/- 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

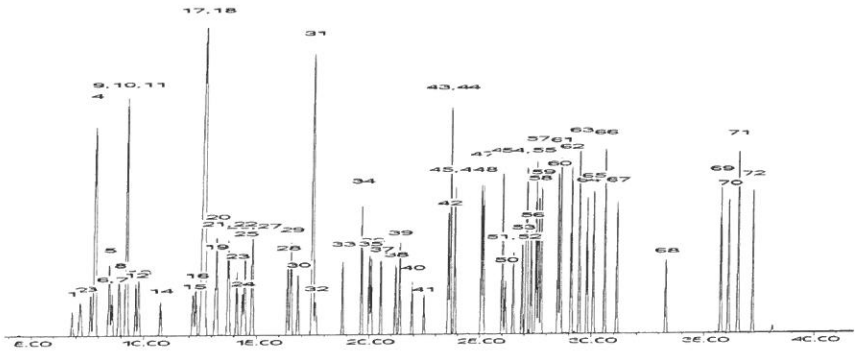
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC **Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571992S_00006

Rec: 9/9/19
VM571992S-00006

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 µg/mL +/- 151.8598 µg/mL +/- 152.2203 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 µg/mL +/- 151.2383 µg/mL +/- 151.5974 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 µg/mL +/- 151.0372 µg/mL +/- 151.3958 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 µg/mL +/- 1,508.4071 µg/mL +/- 1,511.9883 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 µg/mL +/- 151.5400 µg/mL +/- 151.8998 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0.SEC (Lot MKBL1376V) **Purity** 99%	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1.SEC (Lot UERIL) **Purity** 99%	25,001.2 µg/mL	+/- 145.3513 +/- 1,508.4304 +/- 1,512.0117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4.SEC (Lot ZHKYA) **Purity** 99%	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot HGC01-BLKT) **Purity** 98%	2,501.3 µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3.SEC (Lot K24W001) **Purity** 97%	2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 5379000) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%	2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 97%	2,501.0 µg/mL	+/- 14.5409 +/- 150.8954 +/- 151.2537	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1.SEC (Lot PH2XK) **Purity** 99%	62,508.3 µg/mL	+/- 363.4098 +/- 3,771.4029 +/- 3,780.3569	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5.SEC (Lot 5670200) **Purity** 99%	2,507.0 µg/mL	+/- 14.5759 +/- 151.2584 +/- 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9.SEC (Lot 8DAOJ) **Purity** 99%	5,006.7 µg/mL	+/- 29.1092 +/- 302.0744 +/- 302.7916	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-Trichloroethane **CAS #** 71-55-6.SEC (Lot 7998000) **Purity** 99%	2,507.7 µg/mL	+/- 14.5798 +/- 151.2986 +/- 151.6579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7.SEC (Lot YADRA) **Purity** 99%	2,508.0 µg/mL	+/- 14.5817 +/- 151.3188 +/- 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6.SEC (Lot 5221100) **Purity** 96%	2,502.4 µg/mL	+/- 14.5492 +/- 150.9809 +/- 151.3393	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Carbon tetrachloride		2,510.3	µg/mL	+/-	14.5953	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	151.4595	µg/mL	Unstressed
	Purity 99%				+/-	151.8191	µg/mL	Stressed
25	n-Heptane (C7)		2,511.8	µg/mL	+/-	14.6040	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	151.5500	µg/mL	Unstressed
	Purity 99%				+/-	151.9098	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5430	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	150.9165	µg/mL	Unstressed
	Purity 99%				+/-	151.2748	µg/mL	Stressed
27	Benzene		2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	151.1277	µg/mL	Unstressed
	Purity 99%				+/-	151.4865	µg/mL	Stressed
28	Trichloroethene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
29	Methylcyclohexane		2,504.5	µg/mL	+/-	14.5614	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	151.1076	µg/mL	Unstressed
	Purity 99%				+/-	151.4663	µg/mL	Stressed
30	1,2-Dichloropropane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	151.0774	µg/mL	Unstressed
	Purity 99%				+/-	151.4361	µg/mL	Stressed
31	1,4-Dioxane		50,008.0	µg/mL	+/-	290.7356	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot YVP2C)			+/-	3,017.2028	µg/mL	Unstressed
	Purity 99%				+/-	3,024.3661	µg/mL	Stressed
32	Dibromomethane		2,509.5	µg/mL	+/-	14.5904	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	151.4093	µg/mL	Unstressed
	Purity 99%				+/-	151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
34	Toluene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
35	Ethyl methacrylate		2,508.8	µg/mL	+/-	14.5866	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	151.3690	µg/mL	Unstressed
	Purity 99%				+/-	151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,502.9	µg/mL	+/-	14.5520	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	151.0098	µg/mL	Unstressed
	Purity 96%				+/-	151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
38	1,3-Dichloropropane		2,502.7	µg/mL	+/-	14.5507	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	150.9970	µg/mL	Unstressed
	Purity 99%				+/-	151.3555	µg/mL	Stressed
39	Tetrachloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed

40	Dibromochloromethane		2,502.4 µg/mL	+/-	14.5494	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)		+/-	150.9832	µg/mL	Unstressed
	Purity 97%			+/-	151.3417	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,503.3 µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)		+/-	151.0372	µg/mL	Unstressed
	Purity 99%			+/-	151.3958	µg/mL	Stressed
42	Chlorobenzene		2,504.8 µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)		+/-	151.1277	µg/mL	Unstressed
	Purity 99%			+/-	151.4865	µg/mL	Stressed
43	m-Xylene		1,251.7 µg/mL	+/-	7.2941	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)		+/-	75.5202	µg/mL	Unstressed
	Purity 99%			+/-	75.6995	µg/mL	Stressed
44	p-Xylene		1,253.7 µg/mL	+/-	7.3058	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)		+/-	75.6409	µg/mL	Unstressed
	Purity 99%			+/-	75.8205	µg/mL	Stressed
45	Ethylbenzene		2,503.5 µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)		+/-	151.0472	µg/mL	Unstressed
	Purity 99%			+/-	151.4059	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%			+/-	151.5974	µg/mL	Stressed
47	o-Xylene		2,504.2 µg/mL	+/-	14.5594	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)		+/-	151.0875	µg/mL	Unstressed
	Purity 99%			+/-	151.4462	µg/mL	Stressed
48	Styrene		2,507.2 µg/mL	+/-	14.5769	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)		+/-	151.2685	µg/mL	Unstressed
	Purity 99%			+/-	151.6276	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,505.2 µg/mL	+/-	14.5653	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)		+/-	151.1478	µg/mL	Unstressed
	Purity 99%			+/-	151.5067	µg/mL	Stressed
50	Bromoform		2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5461400)		+/-	150.8661	µg/mL	Unstressed
	Purity 97%			+/-	151.2243	µg/mL	Stressed
51	Bromodichloromethane		2,501.3 µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)		+/-	150.9137	µg/mL	Unstressed
	Purity 98%			+/-	151.2720	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,505.7 µg/mL	+/-	14.5682	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)		+/-	151.1780	µg/mL	Unstressed
	Purity 99%			+/-	151.5369	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,514.2 µg/mL	+/-	14.6177	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)		+/-	151.6922	µg/mL	Unstressed
	Purity 98%			+/-	152.0524	µg/mL	Stressed
55	n-Propylbenzene		2,503.7 µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)		+/-	151.0573	µg/mL	Unstressed
	Purity 99%			+/-	151.4159	µg/mL	Stressed

56	Bromobenzene		2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	Purity 99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	Purity 99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	Purity 99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	Purity 99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	Purity 99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	Purity 99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	Purity 99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	Purity 99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	Purity 98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	Purity 97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2	µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	151.5740	µg/mL	Unstressed
	Purity 98%				+/-	151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

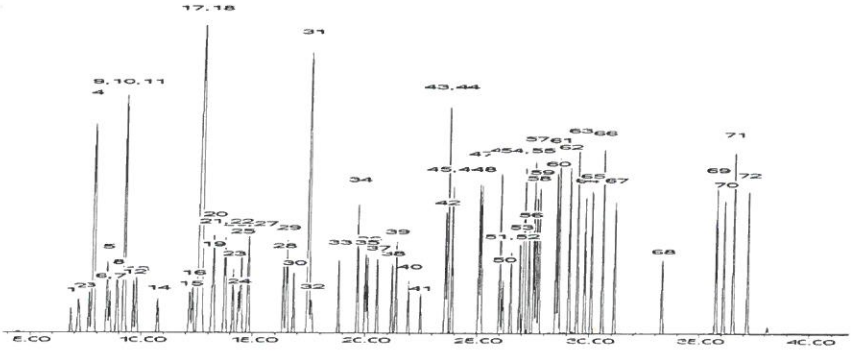
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571993_00003

VM571993-00003 Rec: 12/4/18

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0139911

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetonitrile		25,212.5 µg/mL	+/- 147.6247 µg/mL		Gravimetric
	CAS # 75-05-8	(Lot SHBH6233)		+/- 1,247.3304 µg/mL		Unstressed
	Purity 99%			+/- 1,278.3404 µg/mL		Stressed
2	Diisopropyl ether (DIPE)		2,525.0 µg/mL	+/- 14.8181 µg/mL		Gravimetric
	CAS # 108-20-3	(Lot SHBC0391V)		+/- 124.9226 µg/mL		Unstressed
	Purity 99%			+/- 128.0281 µg/mL		Stressed
3	Ethyl-tert-butyl ether (ETBE)		2,518.5 µg/mL	+/- 14.7800 µg/mL		Gravimetric
	CAS # 637-92-3	(Lot MKCC2702)		+/- 124.6010 µg/mL		Unstressed
	Purity 99%			+/- 127.6985 µg/mL		Stressed
4	Propionitrile		25,227.5 µg/mL	+/- 147.7126 µg/mL		Gravimetric
	CAS # 107-12-0	(Lot BCBV8545)		+/- 1,248.0725 µg/mL		Unstressed
	Purity 99%			+/- 1,279.1009 µg/mL		Stressed
5	tert-Amyl alcohol		25,152.5 µg/mL	+/- 147.2734 µg/mL		Gravimetric
	CAS # 75-85-4	(Lot STBB1898V)		+/- 1,244.3621 µg/mL		Unstressed
	Purity 99%			+/- 1,275.2982 µg/mL		Stressed
6	tert-Amyl methyl ether (TAME)		2,525.0 µg/mL	+/- 14.8181 µg/mL		Gravimetric
	CAS # 994-05-8	(Lot HMBF8365V)		+/- 124.9226 µg/mL		Unstressed
	Purity 99%			+/- 128.0281 µg/mL		Stressed

Reagent

VM571993_00004

Rec: 6-11-20
VM571993_00004

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0158947

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetonitrile **CAS #** 75-05-8 (Lot SHBH6233) **Purity** 99%	25,021.3 µg/mL	+/- 146.5054 µg/mL +/- 1,237.8729 µg/mL +/- 1,268.6477 µg/mL		Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3 (Lot SHBH1927V) **Purity** 99%	2,503.7 µg/mL	+/- 14.6929 µg/mL +/- 123.8671 µg/mL +/- 126.9464 µg/mL		Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3 (Lot MKCG1429) **Purity** 99%	2,502.3 µg/mL	+/- 14.6851 µg/mL +/- 123.8011 µg/mL +/- 126.8788 µg/mL		Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0 (Lot BCBW0865) **Purity** 99%	25,038.0 µg/mL	+/- 146.6030 µg/mL +/- 1,238.6975 µg/mL +/- 1,269.4928 µg/mL		Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4 (Lot STBG1140V) **Purity** 99%	25,036.7 µg/mL	+/- 146.5952 µg/mL +/- 1,238.6315 µg/mL +/- 1,269.4252 µg/mL		Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8 (Lot HMBG6382V) **Purity** 99%	2,502.7 µg/mL	+/- 14.6871 µg/mL +/- 123.8176 µg/mL +/- 126.8957 µg/mL		Gravimetric Unstressed Stressed

Reagent

VM571993S_00005

VM571993S-00005 RCC: 12/4/18

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.SEC **Lot No.:** A0139245

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetonitrile	25,059.0 µg/mL	+/- 146.7260	µg/mL	Gravimetric
	CAS # 75-05-8.SEC (Lot 7KGDA)		+/- 1,239.7364	µg/mL	Unstressed
	Purity 99%		+/- 1,270.5575	µg/mL	Stressed
2	Diisopropyl ether (DIPE)	2,518.6 µg/mL	+/- 14.7806	µg/mL	Gravimetric
	CAS # 108-20-3.SEC (Lot LL7TN-SH)		+/- 124.6059	µg/mL	Unstressed
	Purity 98%		+/- 127.7036	µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)	2,508.0 µg/mL	+/- 14.7183	µg/mL	Gravimetric
	CAS # 637-92-3.SEC (Lot MHBJG-QK)		+/- 124.0815	µg/mL	Unstressed
	Purity 99%		+/- 127.1661	µg/mL	Stressed
4	Propionitrile	25,069.0 µg/mL	+/- 146.7845	µg/mL	Gravimetric
	CAS # 107-12-0.SEC (Lot SASVN)		+/- 1,240.2311	µg/mL	Unstressed
	Purity 99%		+/- 1,271.0646	µg/mL	Stressed
5	tert-Amyl alcohol	25,008.0 µg/mL	+/- 146.4273	µg/mL	Gravimetric
	CAS # 75-85-4.SEC (Lot MMGO1)		+/- 1,237.2133	µg/mL	Unstressed
	Purity 99%		+/- 1,267.9717	µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)	2,501.0 µg/mL	+/- 14.6770	µg/mL	Gravimetric
	CAS # 994-05-8.SEC (Lot 7375800)		+/- 123.7332	µg/mL	Unstressed
	Purity 98%		+/- 126.8091	µg/mL	Stressed

Reagent

VM571993S_00006

VM571993S-00006 Rec'd 4/9/19

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.SEC **Lot No.:** A0143318

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile	25,020.5 µg/mL	+/- 146.5005 µg/mL	Gravimetric
	CAS # 75-05-8.SEC (Lot 7KGDA)		+/- 1,237.8317 µg/mL	Unstressed
	Purity 99%		+/- 1,268.6055 µg/mL	Stressed
2	Diisopropyl ether (DIPE)	2,506.8 µg/mL	+/- 14.7115 µg/mL	Gravimetric
	CAS # 108-20-3.SEC (Lot LL7TN-SH)		+/- 124.0241 µg/mL	Unstressed
	Purity 98%		+/- 127.1073 µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)	2,509.0 µg/mL	+/- 14.7242 µg/mL	Gravimetric
	CAS # 637-92-3.SEC (Lot MHBJG-QK)		+/- 124.1310 µg/mL	Unstressed
	Purity 99%		+/- 127.2168 µg/mL	Stressed
4	Propionitrile	25,017.5 µg/mL	+/- 146.4830 µg/mL	Gravimetric
	CAS # 107-12-0.SEC (Lot PS48O)		+/- 1,237.6833 µg/mL	Unstressed
	Purity 99%		+/- 1,268.4534 µg/mL	Stressed
5	tert-Amyl alcohol	25,019.0 µg/mL	+/- 146.4917 µg/mL	Gravimetric
	CAS # 75-85-4.SEC (Lot ZL6RD)		+/- 1,237.7575 µg/mL	Unstressed
	Purity 99%		+/- 1,268.5294 µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)	2,510.3 µg/mL	+/- 14.7317 µg/mL	Gravimetric
	CAS # 994-05-8.SEC (Lot 7375800)		+/- 124.1938 µg/mL	Unstressed
	Purity 98%		+/- 127.2812 µg/mL	Stressed

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW37A-092220	240-136984-1	103	102	94	103
MSA-SW37B-092220	240-136984-2	100	101	92	101
MSA-SW37C-092220	240-136984-3	96	99	91	99
MSA-SW37D-092220	240-136984-4	89	93	103	106
MSA-SW38A-092220	240-136984-5	81	86	96	97
MSA-SW38B-092220	240-136984-6	85	91	101	105
MSA-SW38C-092220	240-136984-7	88	95	100	108
MSA-SW38D-092220	240-136984-8	86	91	99	102
MSA-SW40A-092220	240-136984-9	88	94	105	111
MSA-SW40B-092220	240-136984-10	90	96	103	108
MSA-SW40C-092220	240-136984-11	85	90	97	99
MSA-SW40D-092220	240-136984-12	90	97	104	111
MSA-SW41A-092220	240-136984-13	87	93	100	103
MSA-SW41B-092220	240-136984-14	92	96	103	108
MSA-SW41C-092220	240-136984-15	87	91	97	99
MSA-SW41D-092220	240-136984-16	88	92	101	104
MSA-SW42A-092220	240-136984-17	88	94	103	110
MSA-SW42B-092220	240-136984-18	91	96	104	109
MSA-SW42C-092220	240-136984-19	92	98	104	109
MSA-SW42D-092220	240-136984-20	91	95	101	105
MSA-SW43A-092220	240-136984-21	90	94	102	107
MSA-SW43B-092220	240-136984-22	89	95	101	104
MSA-SW43C-092220	240-136984-23	86	91	101	106
MSA-SW43D-092220	240-136984-24	83	87	96	99
MSA-SW44A-092220	240-136984-25	81	85	94	98
MSA-SW44B-092220	240-136984-26	88	93	103	106
MSA-SW44C-092220	240-136984-27	90	95	102	107
MSA-SW44D-092220	240-136984-28	91	95	100	104
TB-092220	240-136984-29	90	94	103	107
MSA-SW46A-092220	240-136984-30	89	93	102	107
MSA-SW47A-092220	240-136984-31	90	95	103	109
MSA-SW48A-092220	240-136984-32	89	93	99	104
MSA-SW49A-092220	240-136984-33	89	92	101	105
	MB 240-453487/9	98	104	94	100
	MB 240-453571/8	89	95	103	107

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MB 240-453771/8	90	93	101	107
	LCS 240-453487/6	91	96	97	102
	LCS 240-453571/5	90	92	102	107
	LCS 240-453771/5	90	92	102	107
	240-137031-C-14 MS	91	97	98	101
	240-137031-C-14 MSD	91	96	97	101

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: UXM31389.D

Lab ID: LCS 240-453487/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	40.6	101	33-155	
Benzene	20.0	19.3	96	77-123	
Bromobenzene	20.0	18.3	91	77-120	
Bromochloromethane	20.0	17.7	88	70-128	
Bromodichloromethane	20.0	19.0	95	73-122	
Bromoform	20.0	17.9	89	47-133	
Bromomethane	20.0	12.9	64	48-144	
2-Butanone	40.0	41.2	103	41-151	
Carbon disulfide	20.0	18.1	90	67-127	
Carbon tetrachloride	20.0	18.0	90	61-142	
Chlorobenzene	20.0	18.5	93	80-120	
Chloroethane	20.0	19.6	98	41-147	
2-Chloroethyl vinyl ether	20.0	19.8	99	29-146	
Chloroform	20.0	18.6	93	74-127	
Chloromethane	20.0	18.8	94	46-148	
2-Chlorotoluene	20.0	18.2	91	73-126	
4-Chlorotoluene	20.0	18.7	93	73-126	
cis-1,2-Dichloroethene	20.0	18.8	94	75-124	
cis-1,3-Dichloropropene	20.0	19.9	99	68-128	
Dibromochloromethane	20.0	18.3	91	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.5	92	34-136	
1,2-Dibromoethane	20.0	19.3	96	73-120	
Dibromomethane	20.0	18.6	93	67-121	
1,2-Dichlorobenzene	20.0	17.7	89	74-120	
1,3-Dichlorobenzene	20.0	17.8	89	74-120	
1,4-Dichlorobenzene	20.0	18.1	90	75-120	
Dichlorodifluoromethane	20.0	20.0	100	35-137	
1,1-Dichloroethane	20.0	19.4	97	74-126	
1,2-Dichloroethane	20.0	19.7	99	66-129	
1,1-Dichloroethene	20.0	18.5	93	73-129	
1,2-Dichloropropane	20.0	20.2	101	79-127	
1,3-Dichloropropane	20.0	20.2	101	74-122	
2,2-Dichloropropane	20.0	19.5	98	67-137	
1,1-Dichloropropene	20.0	19.2	96	78-120	
Ethylbenzene	20.0	18.7	93	80-120	
Hexachlorobutadiene	20.0	20.8	104	40-120	
2-Hexanone	40.0	45.3	113	43-142	
Isopropylbenzene	20.0	19.4	97	73-123	
Methylene Chloride	20.0	18.0	90	63-134	
4-Methyl-2-pentanone	40.0	44.8	112	43-145	
Methyl tert-butyl ether	20.0	20.6	103	57-127	
m-Xylene & p-Xylene	20.0	18.9	94	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: UXM31389.D

Lab ID: LCS 240-453487/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	18.4	92	28-130	
n-Butylbenzene	20.0	18.9	94	54-129	
n-Propylbenzene	20.0	18.5	92	67-130	
o-Xylene	20.0	18.8	94	75-123	
p-Isopropyltoluene	20.0	18.9	94	66-127	
sec-Butylbenzene	20.0	19.0	95	60-131	
Styrene	20.0	19.0	95	75-121	
tert-Butyl alcohol	200	232	116	15-169	
tert-Butylbenzene	20.0	18.4	92	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.6	93	77-120	
1,1,2,2-Tetrachloroethane	20.0	19.8	99	45-151	
Tetrachloroethene	20.0	18.8	94	70-125	
Toluene	20.0	19.2	96	79-122	
trans-1,2-Dichloroethene	20.0	18.6	93	74-130	
trans-1,3-Dichloropropene	20.0	18.7	93	64-120	
1,2,3-Trichlorobenzene	20.0	18.6	93	42-126	
1,2,4-Trichlorobenzene	20.0	18.9	94	47-120	
1,1,1-Trichloroethane	20.0	18.8	94	65-141	
Trichloroethene	20.0	17.9	90	71-121	
Trichlorofluoromethane	20.0	20.8	104	52-148	
1,2,3-Trichloropropane	20.0	19.2	96	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.4	102	54-148	
1,2,4-Trimethylbenzene	20.0	19.4	97	66-129	
Vinyl acetate	20.0	18.1	91	44-160	
Vinyl chloride	20.0	20.1	100	61-134	
Xylenes, Total	40.0	37.7	94	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: U1280878.D

Lab ID: LCS 240-453571/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	46.3	116	33-155	
Benzene	20.0	20.2	101	77-123	
Bromobenzene	20.0	22.3	112	77-120	
Bromochloromethane	20.0	18.1	90	70-128	
Bromodichloromethane	20.0	20.6	103	73-122	
Bromoform	20.0	21.0	105	47-133	
Bromomethane	20.0	18.2	91	48-144	
2-Butanone	40.0	39.2	98	41-151	
Carbon disulfide	20.0	22.8	114	67-127	
Carbon tetrachloride	20.0	20.5	103	61-142	
Chlorobenzene	20.0	21.4	107	80-120	
Chloroethane	20.0	18.6	93	41-147	
2-Chloroethyl vinyl ether	20.0	22.3	111	29-146	
Chloroform	20.0	19.0	95	74-127	
Chloromethane	20.0	20.2	101	46-148	
2-Chlorotoluene	20.0	22.0	110	73-126	
4-Chlorotoluene	20.0	21.8	109	73-126	
cis-1,2-Dichloroethene	20.0	18.0	90	75-124	
cis-1,3-Dichloropropene	20.0	21.3	107	68-128	
Dibromochloromethane	20.0	20.1	100	75-120	
1,2-Dibromo-3-Chloropropane	20.0	24.3	122	34-136	
1,2-Dibromoethane	20.0	20.8	104	73-120	
Dibromomethane	20.0	20.2	101	67-121	
1,2-Dichlorobenzene	20.0	20.6	103	74-120	
1,3-Dichlorobenzene	20.0	21.4	107	74-120	
1,4-Dichlorobenzene	20.0	21.2	106	75-120	
Dichlorodifluoromethane	20.0	20.6	103	35-137	
1,1-Dichloroethane	20.0	21.2	106	74-126	
1,2-Dichloroethane	20.0	19.2	96	66-129	
1,1-Dichloroethene	20.0	23.5	118	73-129	
1,2-Dichloropropane	20.0	22.4	112	79-127	
1,3-Dichloropropane	20.0	20.8	104	74-122	
2,2-Dichloropropane	20.0	18.6	93	67-137	
1,1-Dichloropropene	20.0	20.8	104	78-120	
Ethylbenzene	20.0	22.4	112	80-120	
Hexachlorobutadiene	20.0	22.9	115	40-120	
2-Hexanone	40.0	44.4	111	43-142	
Isopropylbenzene	20.0	22.2	111	73-123	
Methylene Chloride	20.0	21.5	108	63-134	
4-Methyl-2-pentanone	40.0	42.4	106	43-145	
Methyl tert-butyl ether	20.0	20.7	104	57-127	
m-Xylene & p-Xylene	20.0	22.4	112	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: U1280878.D

Lab ID: LCS 240-453571/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	23.9	120	28-130	
n-Butylbenzene	20.0	22.9	114	54-129	
n-Propylbenzene	20.0	23.4	117	67-130	
o-Xylene	20.0	21.2	106	75-123	
p-Isopropyltoluene	20.0	23.1	116	66-127	
sec-Butylbenzene	20.0	22.2	111	60-131	
Styrene	20.0	21.6	108	75-121	
tert-Butyl alcohol	200	267	134	15-169	
tert-Butylbenzene	20.0	22.7	114	63-126	
1,1,1,2-Tetrachloroethane	20.0	20.8	104	77-120	
1,1,2,2-Tetrachloroethane	20.0	22.1	111	45-151	
Tetrachloroethene	20.0	21.6	108	70-125	
Toluene	20.0	20.6	103	79-122	
trans-1,2-Dichloroethene	20.0	23.1	115	74-130	
trans-1,3-Dichloropropene	20.0	20.1	101	64-120	
1,2,3-Trichlorobenzene	20.0	23.5	117	42-126	
1,2,4-Trichlorobenzene	20.0	23.0	115	47-120	
1,1,1-Trichloroethane	20.0	20.6	103	65-141	
Trichloroethene	20.0	21.6	108	71-121	
Trichlorofluoromethane	20.0	18.7	94	52-148	
1,2,3-Trichloropropane	20.0	22.1	111	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.3	116	54-148	
1,2,4-Trimethylbenzene	20.0	22.1	110	66-129	
Vinyl acetate	20.0	19.7	99	44-160	
Vinyl chloride	20.0	20.2	101	61-134	
Xylenes, Total	40.0	43.6	109	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: U1280904a.D

Lab ID: LCS 240-453771/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	43.5	109	33-155	
Benzene	20.0	19.8	99	77-123	
Bromobenzene	20.0	21.7	108	77-120	
Bromochloromethane	20.0	17.9	89	70-128	
Bromodichloromethane	20.0	20.3	101	73-122	
Bromoform	20.0	20.7	103	47-133	
Bromomethane	20.0	18.4	92	48-144	
2-Butanone	40.0	37.5	94	41-151	
Carbon disulfide	20.0	22.7	114	67-127	
Carbon tetrachloride	20.0	20.2	101	61-142	
Chlorobenzene	20.0	21.2	106	80-120	
Chloroethane	20.0	18.8	94	41-147	
2-Chloroethyl vinyl ether	20.0	20.4	102	29-146	
Chloroform	20.0	18.7	94	74-127	
Chloromethane	20.0	20.3	101	46-148	
2-Chlorotoluene	20.0	21.5	108	73-126	
4-Chlorotoluene	20.0	21.4	107	73-126	
cis-1,2-Dichloroethene	20.0	18.1	90	75-124	
cis-1,3-Dichloropropene	20.0	20.7	104	68-128	
Dibromochloromethane	20.0	20.0	100	75-120	
1,2-Dibromo-3-Chloropropane	20.0	23.8	119	34-136	
1,2-Dibromoethane	20.0	20.5	102	73-120	
Dibromomethane	20.0	19.7	98	67-121	
1,2-Dichlorobenzene	20.0	20.5	103	74-120	
1,3-Dichlorobenzene	20.0	21.0	105	74-120	
1,4-Dichlorobenzene	20.0	20.5	103	75-120	
Dichlorodifluoromethane	20.0	19.9	100	35-137	
1,1-Dichloroethane	20.0	20.9	104	74-126	
1,2-Dichloroethane	20.0	18.6	93	66-129	
1,1-Dichloroethene	20.0	23.3	116	73-129	
1,2-Dichloropropane	20.0	21.5	107	79-127	
1,3-Dichloropropane	20.0	20.3	102	74-122	
2,2-Dichloropropane	20.0	17.6	88	67-137	
1,1-Dichloropropene	20.0	20.7	104	78-120	
Ethylbenzene	20.0	22.3	112	80-120	
Hexachlorobutadiene	20.0	22.8	114	40-120	
2-Hexanone	40.0	42.0	105	43-142	
Isopropylbenzene	20.0	22.2	111	73-123	
Methylene Chloride	20.0	21.6	108	63-134	
4-Methyl-2-pentanone	40.0	39.6	99	43-145	
Methyl tert-butyl ether	20.0	20.4	102	57-127	
m-Xylene & p-Xylene	20.0	22.2	111	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: U1280904a.D

Lab ID: LCS 240-453771/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	23.6	118	28-130	
n-Butylbenzene	20.0	22.6	113	54-129	
n-Propylbenzene	20.0	23.1	115	67-130	
o-Xylene	20.0	21.2	106	75-123	
p-Isopropyltoluene	20.0	22.5	112	66-127	
sec-Butylbenzene	20.0	22.1	111	60-131	
Styrene	20.0	21.3	107	75-121	
tert-Butyl alcohol	200	242	121	15-169	
tert-Butylbenzene	20.0	22.4	112	63-126	
1,1,1,2-Tetrachloroethane	20.0	20.8	104	77-120	
1,1,2,2-Tetrachloroethane	20.0	21.9	110	45-151	
Tetrachloroethene	20.0	21.5	108	70-125	
Toluene	20.0	20.5	103	79-122	
trans-1,2-Dichloroethene	20.0	23.0	115	74-130	
trans-1,3-Dichloropropene	20.0	19.9	100	64-120	
1,2,3-Trichlorobenzene	20.0	23.1	116	42-126	
1,2,4-Trichlorobenzene	20.0	22.5	113	47-120	
1,1,1-Trichloroethane	20.0	19.9	99	65-141	
Trichloroethene	20.0	21.2	106	71-121	
Trichlorofluoromethane	20.0	19.2	96	52-148	
1,2,3-Trichloropropane	20.0	21.1	106	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.4	117	54-148	
1,2,4-Trimethylbenzene	20.0	21.8	109	66-129	
Vinyl acetate	20.0	18.0	90	44-160	
Vinyl chloride	20.0	20.2	101	61-134	
Xylenes, Total	40.0	43.4	109	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: UXM31395.D

Lab ID: 240-137031-C-14 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	200	25 U	201	100	32-157	
Benzene	100	5.0 U	102	102	70-121	
Bromodichloromethane	100	5.0 U	102	102	69-120	
Bromoform	100	5.0 U	95.4	95	41-128	
Bromomethane	100	5.0 U	58.6	59	41-136	
2-Butanone	200	25 U	203	102	40-147	
Carbon disulfide	100	5.0 U	98.1	98	54-131	
Carbon tetrachloride	100	5.0 U	97.7	98	53-142	
Chlorobenzene	100	5.0 U	99.7	100	73-120	
Chloroethane	100	5.0 U	93.8	94	37-142	
Chloroform	100	5.0 U	98.6	99	66-126	
Chloromethane	100	5.0 U	87.9	88	33-146	
cis-1,2-Dichloroethene	100	5.0 U	99.4	99	68-121	
cis-1,3-Dichloropropene	100	5.0 U	103	103	56-121	
Dibromochloromethane	100	5.0 U	97.4	97	66-120	
1,1-Dichloroethane	100	5.0 U	102	102	71-121	
1,2-Dichloroethane	100	5.0 U	104	104	65-127	
1,1-Dichloroethene	100	5.0 U	99.5	99	64-132	
1,2-Dichloropropane	100	5.0 U	107	107	73-125	
Ethylbenzene	100	5.0 U	100	100	66-122	
2-Hexanone	200	25 U	225	112	44-142	
Methylene Chloride	100	25 U	94.7	95	59-127	
4-Methyl-2-pentanone	200	25 U	225	112	40-147	
m-Xylene & p-Xylene	100	10 U	102	102	65-123	
o-Xylene	100	5.0 U	99.7	100	63-124	
Styrene	100	5.0 U	103	103	57-126	
1,1,2,2-Tetrachloroethane	100	5.0 U	103	103	37-149	
Tetrachloroethene	100	5.0 U	103	103	52-129	
Toluene	100	5.0 U	102	102	68-124	
trans-1,2-Dichloroethene	100	5.0 U	98.8	99	69-126	
trans-1,3-Dichloropropene	100	5.0 U	98.3	98	53-120	
1,1,1-Trichloroethane	100	5.0 U	99.1	99	62-135	
Trichloroethene	100	5.0 U	94.2	94	56-124	
Vinyl chloride	100	270	343	72	49-136	
Xylenes, Total	200	10 U	202	101	64-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Matrix: Water Level: Low Lab File ID: UXM31396.D

Lab ID: 240-137031-C-14 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	200	201	100	0	35	32-157	
Benzene	100	99.7	100	3	35	70-121	
Bromodichloromethane	100	99.3	99	2	35	69-120	
Bromoform	100	94.0	94	1	35	41-128	
Bromomethane	100	61.5	62	5	35	41-136	
2-Butanone	200	206	103	1	35	40-147	
Carbon disulfide	100	95.7	96	2	35	54-131	
Carbon tetrachloride	100	97.3	97	0	35	53-142	
Chlorobenzene	100	96.6	97	3	35	73-120	
Chloroethane	100	94.3	94	1	35	37-142	
Chloroform	100	97.1	97	1	35	66-126	
Chloromethane	100	89.8	90	2	35	33-146	
cis-1,2-Dichloroethene	100	97.3	97	2	35	68-121	
cis-1,3-Dichloropropene	100	99.7	100	3	35	56-121	
Dibromochloromethane	100	98.7	99	1	35	66-120	
1,1-Dichloroethane	100	100	100	2	35	71-121	
1,2-Dichloroethane	100	101	101	3	35	65-127	
1,1-Dichloroethene	100	98.6	99	1	35	64-132	
1,2-Dichloropropane	100	104	104	3	35	73-125	
Ethylbenzene	100	98.2	98	2	35	66-122	
2-Hexanone	200	219	110	2	35	44-142	
Methylene Chloride	100	92.9	93	2	32	59-127	
4-Methyl-2-pentanone	200	220	110	2	35	40-147	
m-Xylene & p-Xylene	100	98.8	99	3	35	65-123	
o-Xylene	100	98.8	99	1	35	63-124	
Styrene	100	100	100	2	35	57-126	
1,1,2,2-Tetrachloroethane	100	102	102	1	35	37-149	
Tetrachloroethene	100	100	100	3	35	52-129	
Toluene	100	99.9	100	3	35	68-124	
trans-1,2-Dichloroethene	100	97.7	98	1	35	69-126	
trans-1,3-Dichloropropene	100	98.3	98	0	35	53-120	
1,1,1-Trichloroethane	100	98.5	99	1	35	62-135	
Trichloroethene	100	93.2	93	1	35	56-124	
Vinyl chloride	100	335	64	2	35	49-136	
Xylenes, Total	200	198	99	2	35	64-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: UXM31392.D Lab Sample ID: MB 240-453487/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 09/29/2020 11:51

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-453487/6	UXM31389.D	09/29/2020 10:37
	240-137031-C-14 MS	UXM31395.D	09/29/2020 13:07
	240-137031-C-14 MSD	UXM31396.D	09/29/2020 13:32
MSA-SW37A-092220	240-136984-1	UXM31410.D	09/29/2020 19:18
MSA-SW37B-092220	240-136984-2	UXM31411.D	09/29/2020 19:43
MSA-SW37C-092220	240-136984-3	UXM31412.D	09/29/2020 20:08

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: U1280881a.D Lab Sample ID: MB 240-453571/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 09/29/2020 19:21

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-453571/5	U1280878.D	09/29/2020 18:13
MSA-SW41B-092220	240-136984-14	U1280882a.D	09/29/2020 19:43
MSA-SW41C-092220	240-136984-15	U1280883.D	09/29/2020 20:06
MSA-SW41D-092220	240-136984-16	U1280884a.D	09/29/2020 20:29
MSA-SW42A-092220	240-136984-17	U1280885.D	09/29/2020 20:51
MSA-SW42B-092220	240-136984-18	U1280886.D	09/29/2020 21:14
MSA-SW42C-092220	240-136984-19	U1280887.D	09/29/2020 21:36
MSA-SW42D-092220	240-136984-20	U1280888a.D	09/29/2020 21:58
MSA-SW43A-092220	240-136984-21	U1280889.D	09/29/2020 22:20
MSA-SW43B-092220	240-136984-22	U1280890.D	09/29/2020 22:43
MSA-SW43C-092220	240-136984-23	U1280891.D	09/29/2020 23:06
MSA-SW43D-092220	240-136984-24	U1280892a.D	09/29/2020 23:28
MSA-SW44A-092220	240-136984-25	U1280893.D	09/29/2020 23:50
MSA-SW44B-092220	240-136984-26	U1280894.D	09/30/2020 00:13
MSA-SW44C-092220	240-136984-27	U1280895.D	09/30/2020 00:36
MSA-SW44D-092220	240-136984-28	U1280896a.D	09/30/2020 00:58
TB-092220	240-136984-29	U1280897.D	09/30/2020 01:20
MSA-SW46A-092220	240-136984-30	U1280898.D	09/30/2020 01:43
MSA-SW47A-092220	240-136984-31	U1280899.D	09/30/2020 02:05
MSA-SW48A-092220	240-136984-32	U1280900.D	09/30/2020 02:27
MSA-SW49A-092220	240-136984-33	U1280901.D	09/30/2020 02:50

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: U1280907.D Lab Sample ID: MB 240-453771/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 09/30/2020 18:21

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-453771/5	U1280904a.D	09/30/2020 17:14
MSA-SW37D-092220	240-136984-4	U1280922b.D	09/30/2020 23:58
MSA-SW38A-092220	240-136984-5	U1280923.D	10/01/2020 00:21
MSA-SW38B-092220	240-136984-6	U1280924b.D	10/01/2020 00:44
MSA-SW38C-092220	240-136984-7	U1280925.D	10/01/2020 01:06
MSA-SW38D-092220	240-136984-8	U1280926b.D	10/01/2020 01:29
MSA-SW40A-092220	240-136984-9	U1280927.D	10/01/2020 01:51
MSA-SW40B-092220	240-136984-10	U1280928b.D	10/01/2020 02:14
MSA-SW40C-092220	240-136984-11	U1280929.D	10/01/2020 02:37
MSA-SW40D-092220	240-136984-12	U1280930b.D	10/01/2020 02:59
MSA-SW41A-092220	240-136984-13	U1280931.D	10/01/2020 03:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB4108.D BFB Injection Date: 04/30/2019

Instrument ID: A3UX12 BFB Injection Time: 13:47

Analysis Batch No.: 378870

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.1	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	86.4	
175	5.0 - 9.0 % of mass 174	6.3	(7.3) 1
176	95.0 - 101.0 % of mass 174	83.6	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.3) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-378870/8	U1269795.D	04/30/2019	14:10
	STD8260 240-378870/9	U1269796.D	04/30/2019	14:33
	STD8260 240-378870/10	U1269797.D	04/30/2019	14:55
	ICIS 240-378870/11	U1269798.D	04/30/2019	15:17
	STD8260 240-378870/12	U1269799.D	04/30/2019	15:39
	STD8260 240-378870/13	U1269800.D	04/30/2019	16:02
	STD8260 240-378870/14	U1269801.D	04/30/2019	16:24
	STDA9 240-378870/18	U1269805.D	04/30/2019	17:52
	STDA9 240-378870/19	U1269806a.D	04/30/2019	18:14
	STDA9 240-378870/20	U1269807.D	04/30/2019	18:37
	STDA9 240-378870/21	U1269808.D	04/30/2019	18:59
	STDA9 240-378870/22	U1269809.D	04/30/2019	19:21
	STDA9 240-378870/23	U1269810.D	04/30/2019	19:43
	STDA9 240-378870/24	U1269811.D	04/30/2019	20:05
	ICV 240-378870/25	U1269812.D	04/30/2019	20:27

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB4436a.D BFB Injection Date: 07/16/2020

Instrument ID: A3UX12 BFB Injection Time: 16:09

Analysis Batch No.: 442963

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.2	
75	30.0 - 60.0 % of mass 95	51.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	86.5	
175	5.0 - 9.0 % of mass 174	6.3	(7.3) 1
176	95.0 - 101.0 % of mass 174	84.1	(97.2) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-442963/9	U1279113.D	07/16/2020	17:43
	STD8260 240-442963/10	U1279114.D	07/16/2020	18:05
	STD8260 240-442963/11	U1279115.D	07/16/2020	18:27
	STD8260 240-442963/12	U1279116.D	07/16/2020	18:50
	ICIS 240-442963/13	U1279117.D	07/16/2020	19:12
	STD8260 240-442963/14	U1279118.D	07/16/2020	19:35
	STD8260 240-442963/15	U1279119.D	07/16/2020	19:57
	STD8260 240-442963/16	U1279120.D	07/16/2020	20:20
	ICV 240-442963/17	U1279121.D	07/16/2020	20:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB4496.D BFB Injection Date: 09/29/2020

Instrument ID: A3UX12 BFB Injection Time: 17:06

Analysis Batch No.: 453571

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.3	
75	30.0 - 60.0 % of mass 95	49.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	80.0	
175	5.0 - 9.0 % of mass 174	5.9	(7.4) 1
176	95.0 - 101.0 % of mass 174	77.8	(97.3) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-453571/3	U1280876a.D	09/29/2020	17:28
	CCVIS 240-453571/4	U1280877.D	09/29/2020	17:51
	LCS 240-453571/5	U1280878.D	09/29/2020	18:13
	MB 240-453571/8	U1280881a.D	09/29/2020	19:21
MSA-SW41B-092220	240-136984-14	U1280882a.D	09/29/2020	19:43
MSA-SW41C-092220	240-136984-15	U1280883.D	09/29/2020	20:06
MSA-SW41D-092220	240-136984-16	U1280884a.D	09/29/2020	20:29
MSA-SW42A-092220	240-136984-17	U1280885.D	09/29/2020	20:51
MSA-SW42B-092220	240-136984-18	U1280886.D	09/29/2020	21:14
MSA-SW42C-092220	240-136984-19	U1280887.D	09/29/2020	21:36
MSA-SW42D-092220	240-136984-20	U1280888a.D	09/29/2020	21:58
MSA-SW43A-092220	240-136984-21	U1280889.D	09/29/2020	22:20
MSA-SW43B-092220	240-136984-22	U1280890.D	09/29/2020	22:43
MSA-SW43C-092220	240-136984-23	U1280891.D	09/29/2020	23:06
MSA-SW43D-092220	240-136984-24	U1280892a.D	09/29/2020	23:28
MSA-SW44A-092220	240-136984-25	U1280893.D	09/29/2020	23:50
MSA-SW44B-092220	240-136984-26	U1280894.D	09/30/2020	0:13
MSA-SW44C-092220	240-136984-27	U1280895.D	09/30/2020	0:36
MSA-SW44D-092220	240-136984-28	U1280896a.D	09/30/2020	0:58
TB-092220	240-136984-29	U1280897.D	09/30/2020	1:20
MSA-SW46A-092220	240-136984-30	U1280898.D	09/30/2020	1:43
MSA-SW47A-092220	240-136984-31	U1280899.D	09/30/2020	2:05
MSA-SW48A-092220	240-136984-32	U1280900.D	09/30/2020	2:27
MSA-SW49A-092220	240-136984-33	U1280901.D	09/30/2020	2:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB4497.D BFB Injection Date: 09/30/2020

Instrument ID: A3UX12 BFB Injection Time: 16:06

Analysis Batch No.: 453771

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.5	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.3	
175	5.0 - 9.0 % of mass 174	5.9	(7.2) 1
176	95.0 - 101.0 % of mass 174	79.0	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-453771/3	U1280902a.D	09/30/2020	16:29
	CCVIS 240-453771/4	U1280903.D	09/30/2020	16:51
	LCS 240-453771/5	U1280904a.D	09/30/2020	17:14
	MB 240-453771/8	U1280907.D	09/30/2020	18:21
MSA-SW37D-092220	240-136984-4	U1280922b.D	09/30/2020	23:58
MSA-SW38A-092220	240-136984-5	U1280923.D	10/01/2020	0:21
MSA-SW38B-092220	240-136984-6	U1280924b.D	10/01/2020	0:44
MSA-SW38C-092220	240-136984-7	U1280925.D	10/01/2020	1:06
MSA-SW38D-092220	240-136984-8	U1280926b.D	10/01/2020	1:29
MSA-SW40A-092220	240-136984-9	U1280927.D	10/01/2020	1:51
MSA-SW40B-092220	240-136984-10	U1280928b.D	10/01/2020	2:14
MSA-SW40C-092220	240-136984-11	U1280929.D	10/01/2020	2:37
MSA-SW40D-092220	240-136984-12	U1280930b.D	10/01/2020	2:59
MSA-SW41A-092220	240-136984-13	U1280931.D	10/01/2020	3:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB6489.D BFB Injection Date: 09/08/2020

Instrument ID: A3UX16 BFB Injection Time: 11:23

Analysis Batch No.: 450378

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	48.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	86.4	
175	5.0 - 9.0 % of mass 174	6.5	(7.6) 1
176	95.0 - 101.0 % of mass 174	83.4	(96.5) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-450378/9	UXM31022.D	09/08/2020	12:22
	STD8260 240-450378/10	UXM31023.D	09/08/2020	12:47
	STD8260 240-450378/11	UXM31024.D	09/08/2020	13:12
	ICIS 240-450378/12	UXM31025.D	09/08/2020	13:36
	STD8260 240-450378/13	UXM31026.D	09/08/2020	14:01
	STD8260 240-450378/14	UXM31027.D	09/08/2020	14:26
	STD8260 240-450378/15	UXM31028.D	09/08/2020	14:50
	ICV 240-450378/16	UXM31029.D	09/08/2020	15:15
	STDA9 240-450378/19	UXM31032.D	09/08/2020	16:30
	STDA9 240-450378/20	UXM31033.D	09/08/2020	16:55
	STDA9 240-450378/21	UXM31034.D	09/08/2020	17:19
	STDA9 240-450378/22	UXM31035.D	09/08/2020	17:44
	STDA9 240-450378/23	UXM31036.D	09/08/2020	18:09
	STDA9 240-450378/24	UXM31037.D	09/08/2020	18:33
	ICV 240-450378/25	UXM31038.D	09/08/2020	18:58

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab File ID: BFB6506.D BFB Injection Date: 09/29/2020

Instrument ID: A3UX16 BFB Injection Time: 09:24

Analysis Batch No.: 453487

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.3	(0.3) 1
174	Greater than 50% of mass 95	95.3	
175	5.0 - 9.0 % of mass 174	7.3	(7.7) 1
176	95.0 - 101.0 % of mass 174	93.6	(98.2) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.4) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-453487/4	UXM31387.D	09/29/2020	9:47
	CCVIS 240-453487/5	UXM31388.D	09/29/2020	10:12
	LCS 240-453487/6	UXM31389.D	09/29/2020	10:37
	MB 240-453487/9	UXM31392.D	09/29/2020	11:51
	240-137031-C-14 MS	UXM31395.D	09/29/2020	13:07
	240-137031-C-14 MSD	UXM31396.D	09/29/2020	13:32
MSA-SW37A-092220	240-136984-1	UXM31410.D	09/29/2020	19:18
MSA-SW37B-092220	240-136984-2	UXM31411.D	09/29/2020	19:43
MSA-SW37C-092220	240-136984-3	UXM31412.D	09/29/2020	20:08

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: ICIS 240-442963/13 Date Analyzed: 07/16/2020 19:12

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1279117.D Heated Purge: (Y/N) N

Calibration ID: 57831

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		930091	5.10	747849	7.75	400649	9.97
UPPER LIMIT		1860182	5.60	1495698	8.25	801298	10.47
LOWER LIMIT		465046	4.60	373925	7.25	200325	9.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-442963/17		993337	5.10	838058	7.75	407737	9.97
CCVIS 240-453571/4		1190490	5.10	832661	7.75	421773	9.97
CCVIS 240-453771/4		1163558	5.10	797559	7.75	419334	9.97

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: CCVIS 240-453571/4 Date Analyzed: 09/29/2020 17:51

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1280877.D Heated Purge: (Y/N) N

Calibration ID: 57831

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1190490	5.10	832661	7.75	421773	9.97
UPPER LIMIT		2380980	5.60	1665322	8.25	843546	10.47
LOWER LIMIT		595245	4.60	416331	7.25	210887	9.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-453571/5		1190397	5.10	834222	7.75	419108	9.97
MB 240-453571/8		1144959	5.10	759851	7.75	391859	9.97
240-136984-14	MSA-SW41B-092220	1120628	5.10	753813	7.75	393521	9.97
240-136984-15	MSA-SW41C-092220	1123185	5.10	774174	7.75	406468	9.97
240-136984-16	MSA-SW41D-092220	1146946	5.10	756745	7.76	392659	9.97
240-136984-17	MSA-SW42A-092220	1128555	5.10	746701	7.75	386284	9.97
240-136984-18	MSA-SW42B-092220	1106915	5.10	731377	7.75	371861	9.97
240-136984-19	MSA-SW42C-092220	1086888	5.10	727159	7.76	373413	9.97
240-136984-20	MSA-SW42D-092220	1115919	5.10	748778	7.75	385751	9.97
240-136984-21	MSA-SW43A-092220	1130186	5.10	755064	7.75	386025	9.97
240-136984-22	MSA-SW43B-092220	1149785	5.10	770970	7.75	397623	9.97
240-136984-23	MSA-SW43C-092220	1170304	5.10	812022	7.75	413221	9.97
240-136984-24	MSA-SW43D-092220	1170878	5.10	808014	7.75	421576	9.97
240-136984-25	MSA-SW44A-092220	1170471	5.10	813659	7.75	409152	9.97
240-136984-26	MSA-SW44B-092220	1143771	5.10	759304	7.75	389113	9.97
240-136984-27	MSA-SW44C-092220	1134278	5.10	773889	7.75	415693	9.97
240-136984-28	MSA-SW44D-092220	1093231	5.10	742273	7.75	381264	9.97
240-136984-29	TB-092220	1125181	5.10	752282	7.75	394920	9.97
240-136984-30	MSA-SW46A-092220	1128519	5.10	757102	7.75	401368	9.97
240-136984-31	MSA-SW47A-092220	1114302	5.10	746657	7.75	390594	9.97
240-136984-32	MSA-SW48A-092220	1107222	5.10	760687	7.75	408119	9.97
240-136984-33	MSA-SW49A-092220	1104760	5.10	758536	7.75	396855	9.97

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: CCVIS 240-453771/4 Date Analyzed: 09/30/2020 16:51

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1280903.D Heated Purge: (Y/N) N

Calibration ID: 57831

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1163558	5.10	797559	7.75	419334	9.97
UPPER LIMIT		2327116	5.60	1595118	8.25	838668	10.47
LOWER LIMIT		581779	4.60	398780	7.25	209667	9.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-453771/5		1161794	5.10	788953	7.75	400811	9.97
MB 240-453771/8		1116135	5.10	752142	7.75	393779	9.97
240-136984-4	MSA-SW37D-092220	1107151	5.10	748237	7.75	401309	9.97
240-136984-5	MSA-SW38A-092220	1135944	5.10	806183	7.75	405220	9.97
240-136984-6	MSA-SW38B-092220	1119130	5.10	790001	7.75	400602	9.97
240-136984-7	MSA-SW38C-092220	1127554	5.10	792276	7.75	418314	9.97
240-136984-8	MSA-SW38D-092220	1135269	5.10	800416	7.75	413446	9.97
240-136984-9	MSA-SW40A-092220	1103426	5.10	730942	7.75	392446	9.97
240-136984-10	MSA-SW40B-092220	1098231	5.10	748614	7.75	386922	9.97
240-136984-11	MSA-SW40C-092220	1117947	5.10	741520	7.76	390250	9.97
240-136984-12	MSA-SW40D-092220	1077002	5.10	708348	7.75	357909	9.97
240-136984-13	MSA-SW41A-092220	1098436	5.10	737964	7.75	385530	9.97

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: ICIS 240-450378/12 Date Analyzed: 09/08/2020 13:36

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM31025.D Heated Purge: (Y/N) N

Calibration ID: 58341

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		955305	5.87	743399	8.60	412806	10.86
UPPER LIMIT		1910610	6.37	1486798	9.10	825612	11.36
LOWER LIMIT		477653	5.37	371700	8.10	206403	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-450378/16		937717	5.87	743116	8.60	412044	10.86
ICV 240-450378/25		909527	5.87	734035	8.60	394515	10.86
CCVIS 240-453487/5		906648	5.87	704882	8.60	407895	10.86

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Sample No.: CCVIS 240-453487/5 Date Analyzed: 09/29/2020 10:12

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM31388.D Heated Purge: (Y/N) N

Calibration ID: 58345

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		906648	5.87	704882	8.60	407895	10.86
UPPER LIMIT		1813296	6.37	1409764	9.10	815790	11.36
LOWER LIMIT		453324	5.37	352441	8.10	203948	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-453487/4		876540	5.87	705466	8.60	386736	10.86
LCS 240-453487/6		913212	5.87	715336	8.60	411154	10.86
MB 240-453487/9		783166	5.87	648751	8.60	366175	10.86
240-137031-C-14 MS		848058	5.87	660605	8.60	389096	10.86
240-137031-C-14 MSD		854014	5.87	669513	8.60	393863	10.86
240-136984-1	MSA-SW37A-092220	768040	5.87	663323	8.60	393952	10.86
240-136984-2	MSA-SW37B-092220	778405	5.87	671423	8.60	388214	10.86
240-136984-3	MSA-SW37C-092220	819428	5.87	695091	8.60	404652	10.86

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37A-092220 Lab Sample ID: 240-136984-1

Matrix: Water Lab File ID: UXM31410.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:33

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31410.D
Lims ID: 240-136984-B-1
Client ID: MSA-SW37A-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 19:18:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 07:38:59 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: bosworthh Date: 30-Sep-2020 07:38:59

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	768040	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	663323	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	393952	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	215058	25.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.001	98	231277	25.5	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	837712	23.5	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	330265	25.7	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.908				ND	
	11 Vinyl chloride	62		2.027				ND	
	13 Bromomethane	94		2.371				ND	
	14 Chloroethane	64		2.489				ND	
	16 Trichlorofluoromethane	101		2.750				ND	
	19 1,1-Dichloroethene	96		3.260				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58		3.308				ND	
	24 Carbon disulfide	76		3.474				ND	U
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.818				ND	
	31 Methyl tert-butyl ether	73		3.972				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.375				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.861				ND	
	39 cis-1,2-Dichloroethene	96		4.873				ND	
	41 2,2-Dichloropropane	77		4.885				ND	
	45 Chlorobromomethane	128		5.086				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.715				ND	
58 Trichloroethene	130		6.177				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.865				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91		7.316				ND	
71 trans-1,3-Dichloropropene	75		7.517				ND	
75 Tetrachloroethene	164		7.778				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.170				ND	
82 Chlorobenzene	112		8.620				ND	
84 Ethylbenzene	106		8.703				ND	
83 1,1,1,2-Tetrachloroethane	131		8.703				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.403				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.865				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.948				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.790				ND	
107 4-Isopropyltoluene	119		10.814				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.253				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.150				ND	
118 1,2,3-Trichlorobenzene	180		13.399				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

Reagents:

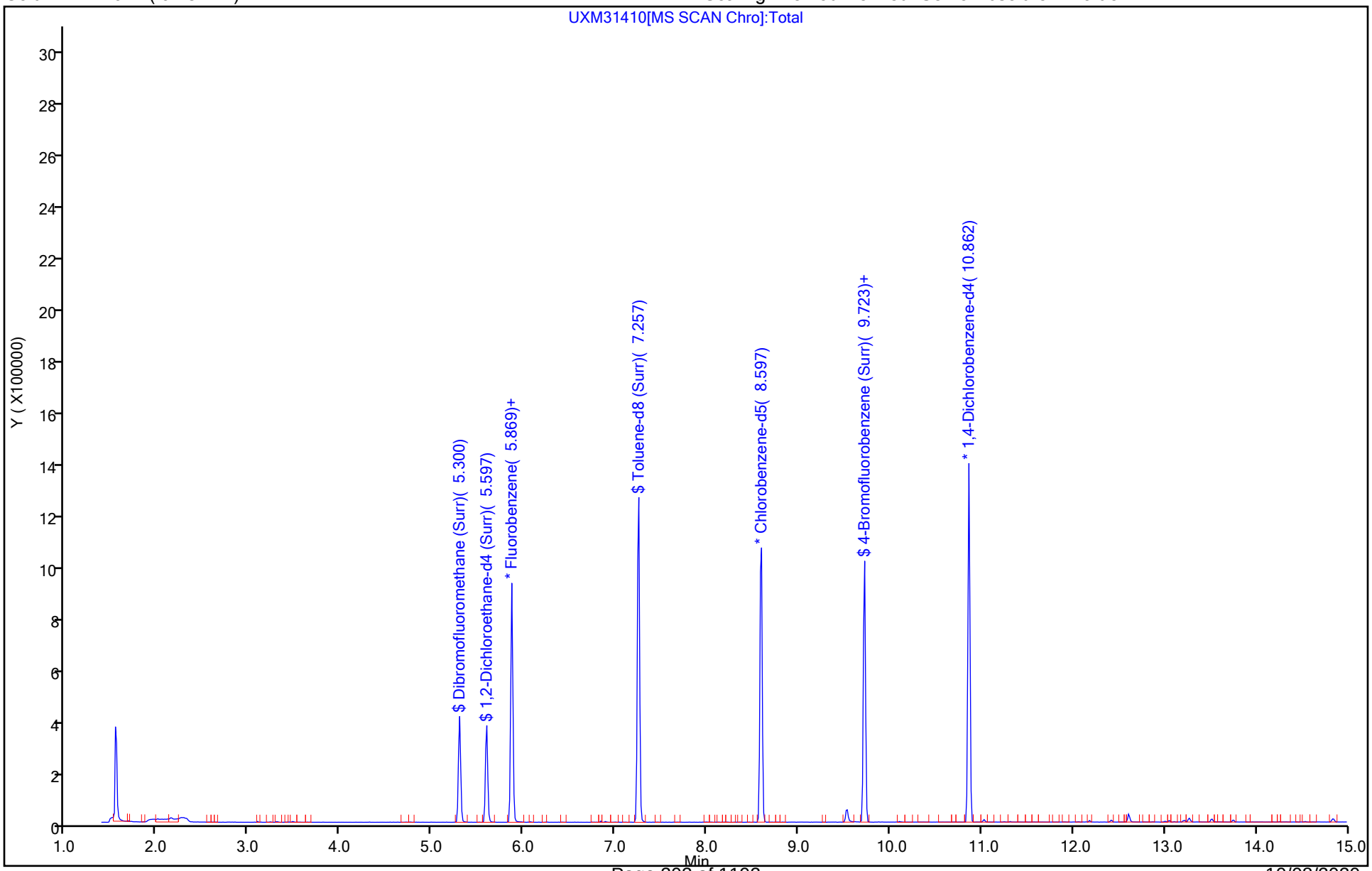
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 30-Sep-2020 07:38:59 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31410.D				
Injection Date:	29-Sep-2020 19:18:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-136984-B-1	Lab Sample ID:	240-136984-1	Worklist Smp#:	27
Client ID:	MSA-SW37A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31410.D
Lims ID: 240-136984-B-1
Client ID: MSA-SW37A-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 19:18:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 07:38:59 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: bosworthh Date: 30-Sep-2020 07:38:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.7	103.09
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.5	102.42
$ 6 Toluene-d8 (Surr)	24.9	23.5	94.26
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.7	102.95

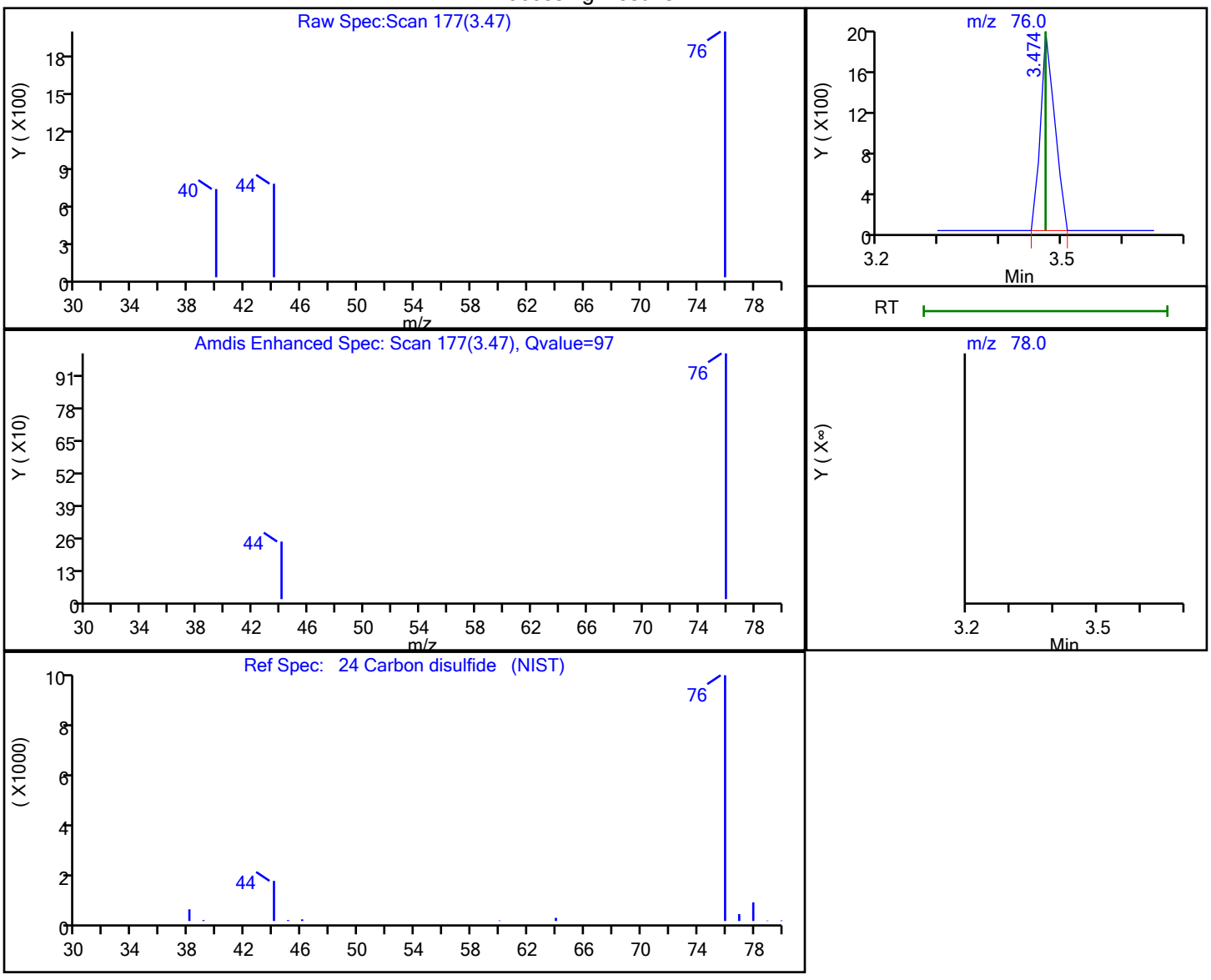
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31410.D				
Injection Date:	29-Sep-2020 19:18:30	Instrument ID:	A3UX16		
Lims ID:	240-136984-B-1	Lab Sample ID:	240-136984-1		
Client ID:	MSA-SW37A-092220				
Operator ID:	001765	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.47	76.00	3229	0.127230
3.47	78.00	0	

Reviewer: bosworthh, 30-Sep-2020 07:38:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	92		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37B-092220 Lab Sample ID: 240-136984-2

Matrix: Water Lab File ID: UXM31411.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:36

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31411.D
Lims ID: 240-136984-B-2
Client ID: MSA-SW37B-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 19:43:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 07:38:59 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: bosworthh Date: 30-Sep-2020 07:39:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	778405	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	671423	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	388214	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	210476	24.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.596	0.000	98	231644	25.2	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	830438	23.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	328316	25.2	
9 Dichlorodifluoromethane	85		1.719				ND	
10 Chloromethane	50		1.908				ND	
11 Vinyl chloride	62		2.027				ND	
13 Bromomethane	94		2.371				ND	
14 Chloroethane	64		2.489				ND	
16 Trichlorofluoromethane	101		2.750				ND	
19 1,1-Dichloroethene	96		3.260				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
21 Acetone	58		3.308				ND	
24 Carbon disulfide	76		3.474				ND	7
28 Methylene Chloride	84		3.735				ND	
29 2-Methyl-2-propanol	59		3.818				ND	
31 Methyl tert-butyl ether	73		3.972				ND	
32 trans-1,2-Dichloroethene	96		3.984				ND	
35 Vinyl acetate	43		4.375				ND	
34 1,1-Dichloroethane	63		4.375				ND	
36 Isopropyl ether	87		4.387				ND	
38 Tert-butyl ethyl ether	59		4.707				ND	
40 2-Butanone (MEK)	72		4.861				ND	
39 cis-1,2-Dichloroethene	96		4.873				ND	
41 2,2-Dichloropropane	77		4.885				ND	
45 Chlorobromomethane	128		5.086				ND	
47 Chloroform	83		5.158				ND	
48 1,1,1-Trichloroethane	97		5.312				ND	
51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.715				ND	
58 Trichloroethene	130		6.177				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.865				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91		7.316				ND	
71 trans-1,3-Dichloropropene	75		7.517				ND	
75 Tetrachloroethene	164		7.778				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.170				ND	
82 Chlorobenzene	112		8.620				ND	
84 Ethylbenzene	106		8.703				ND	
83 1,1,1,2-Tetrachloroethane	131		8.703				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.403				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.865				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.948				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.790				ND	
107 4-Isopropyltoluene	119		10.814				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.253				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.150				ND	
118 1,2,3-Trichlorobenzene	180		13.399				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.49	Units: uL	Run Reagent

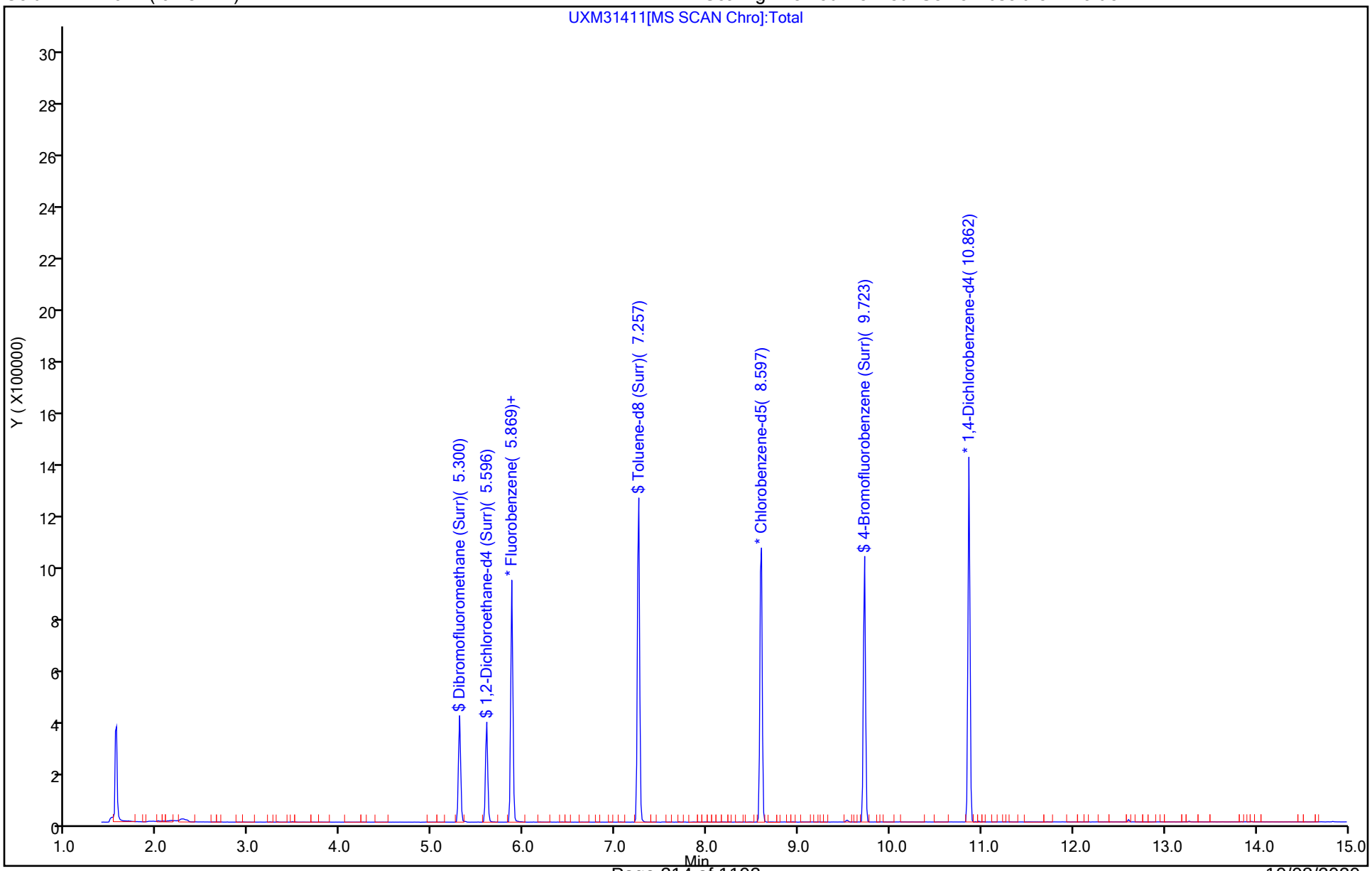
Report Date: 30-Sep-2020 07:39:20 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31411.D

Injection Date:	29-Sep-2020 19:43:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-136984-B-2	Lab Sample ID:	240-136984-2	Worklist Smp#:	28
Client ID:	MSA-SW37B-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31411.D
Lims ID: 240-136984-B-2
Client ID: MSA-SW37B-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 19:43:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 07:38:59 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: bosworthh Date: 30-Sep-2020 07:39:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	24.8	99.55
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.2	101.21
$ 6 Toluene-d8 (Surr)	24.9	23.0	92.31
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.2	101.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	96		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	91		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37C-092220 Lab Sample ID: 240-136984-3

Matrix: Water Lab File ID: UXM31412.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:39

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31412.D
Lims ID: 240-136984-B-3
Client ID: MSA-SW37C-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 20:08:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 07:38:59 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: bosworthh Date: 30-Sep-2020 07:39:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	819428	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	695091	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	404652	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	213565	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.001	97	238147	24.6	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	843841	22.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	96	333158	24.7	
9 Dichlorodifluoromethane	85		1.719				ND	
10 Chloromethane	50		1.908				ND	
11 Vinyl chloride	62		2.027				ND	
13 Bromomethane	94		2.371				ND	
14 Chloroethane	64		2.489				ND	
16 Trichlorofluoromethane	101		2.750				ND	
19 1,1-Dichloroethene	96		3.260				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
21 Acetone	58	3.308	3.308	0.000	97	928	1.27	
24 Carbon disulfide	76		3.474				ND	
28 Methylene Chloride	84		3.735				ND	
29 2-Methyl-2-propanol	59		3.818				ND	
31 Methyl tert-butyl ether	73		3.972				ND	
32 trans-1,2-Dichloroethene	96		3.984				ND	
35 Vinyl acetate	43		4.375				ND	
34 1,1-Dichloroethane	63		4.375				ND	
36 Isopropyl ether	87		4.387				ND	
38 Tert-butyl ethyl ether	59		4.707				ND	
40 2-Butanone (MEK)	72		4.861				ND	
39 cis-1,2-Dichloroethene	96		4.873				ND	
41 2,2-Dichloropropane	77		4.885				ND	
45 Chlorobromomethane	128		5.086				ND	
47 Chloroform	83		5.158				ND	
48 1,1,1-Trichloroethane	97		5.312				ND	
51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.715				ND	
58 Trichloroethene	130		6.177				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.865				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91		7.316				ND	
71 trans-1,3-Dichloropropene	75		7.517				ND	
75 Tetrachloroethene	164		7.778				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.170				ND	
82 Chlorobenzene	112		8.620				ND	
84 Ethylbenzene	106		8.703				ND	
83 1,1,1,2-Tetrachloroethane	131		8.703				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.403				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.865				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.948				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.790				ND	
107 4-Isopropyltoluene	119		10.814				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.253				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.150				ND	
118 1,2,3-Trichlorobenzene	180		13.399				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

Reagents:

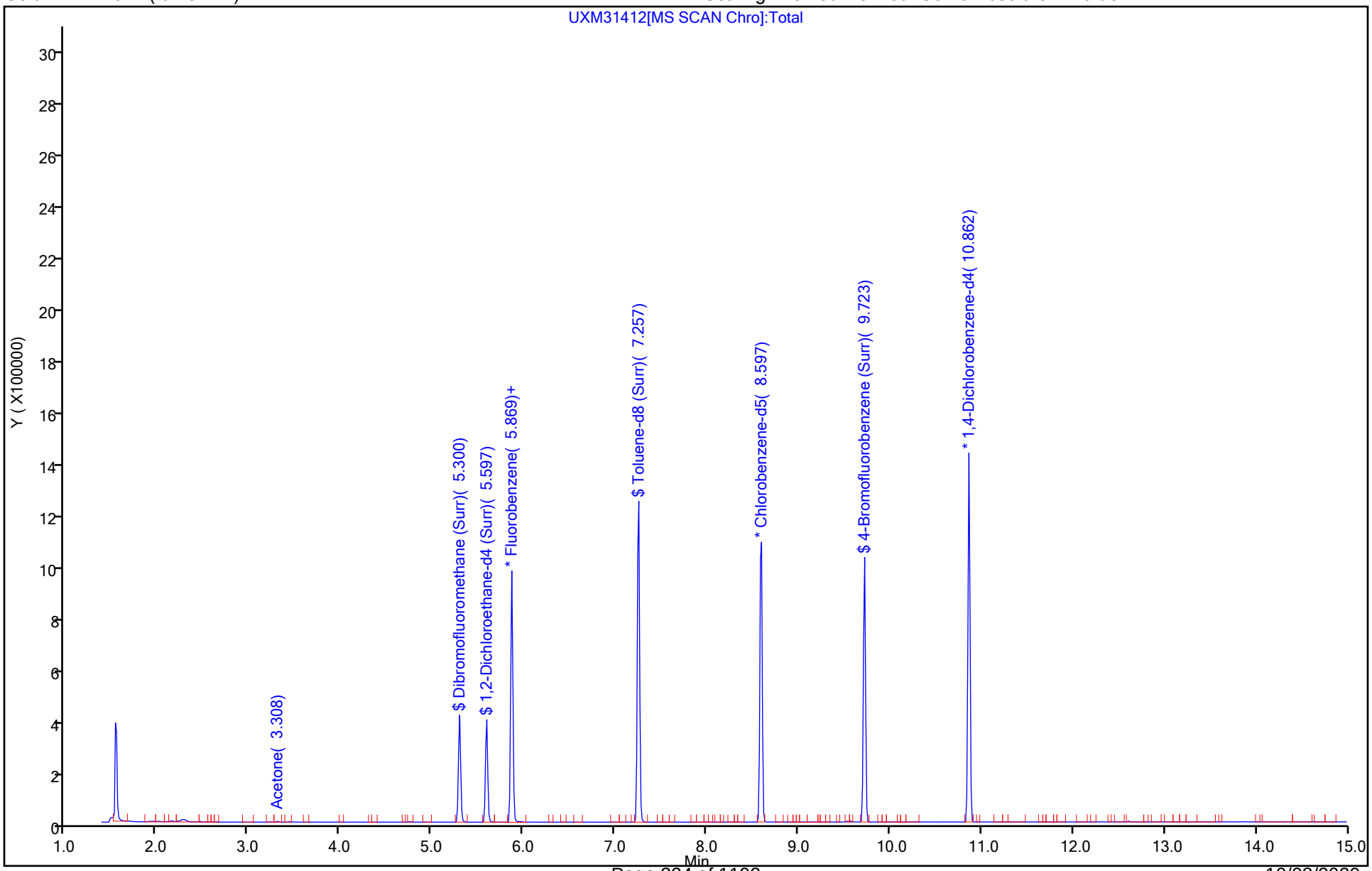
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 30-Sep-2020 07:39:46 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31412.D				
Injection Date:	29-Sep-2020 20:08:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-136984-B-3	Lab Sample ID:	240-136984-3	Worklist Smp#:	29
Client ID:	MSA-SW37C-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31412.D
Lims ID: 240-136984-B-3
Client ID: MSA-SW37C-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 20:08:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 07:38:59 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: bosworthh Date: 30-Sep-2020 07:39:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	23.9	95.95
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.6	98.84
$ 6 Toluene-d8 (Surr)	24.9	22.6	90.61
$ 7 4-Bromofluorobenzene (Surr)	24.9	24.7	99.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW37D-092220 Lab Sample ID: 240-136984-4

Matrix: Water Lab File ID: U1280922b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:42

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280922b.D
Lims ID: 240-136984-B-4
Client ID: MSA-SW37D-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 23:58:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-023
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:02:47 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:02:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1107151	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	748237	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	401309	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	261666	17.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	334202	18.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1037801	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	94	365917	21.1	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.693	2.693	0.000	94	6517	0.9246	
25 Carbon disulfide	76		2.823				ND	7
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.515				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	7
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	7
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	7
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180	11.946	11.947	-0.001	1	1649	0.1013	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	1	1784	0.2864	
117 Naphthalene	128	12.195	12.195	0.000	89	5457	0.1012	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	82	1770	0.1181	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

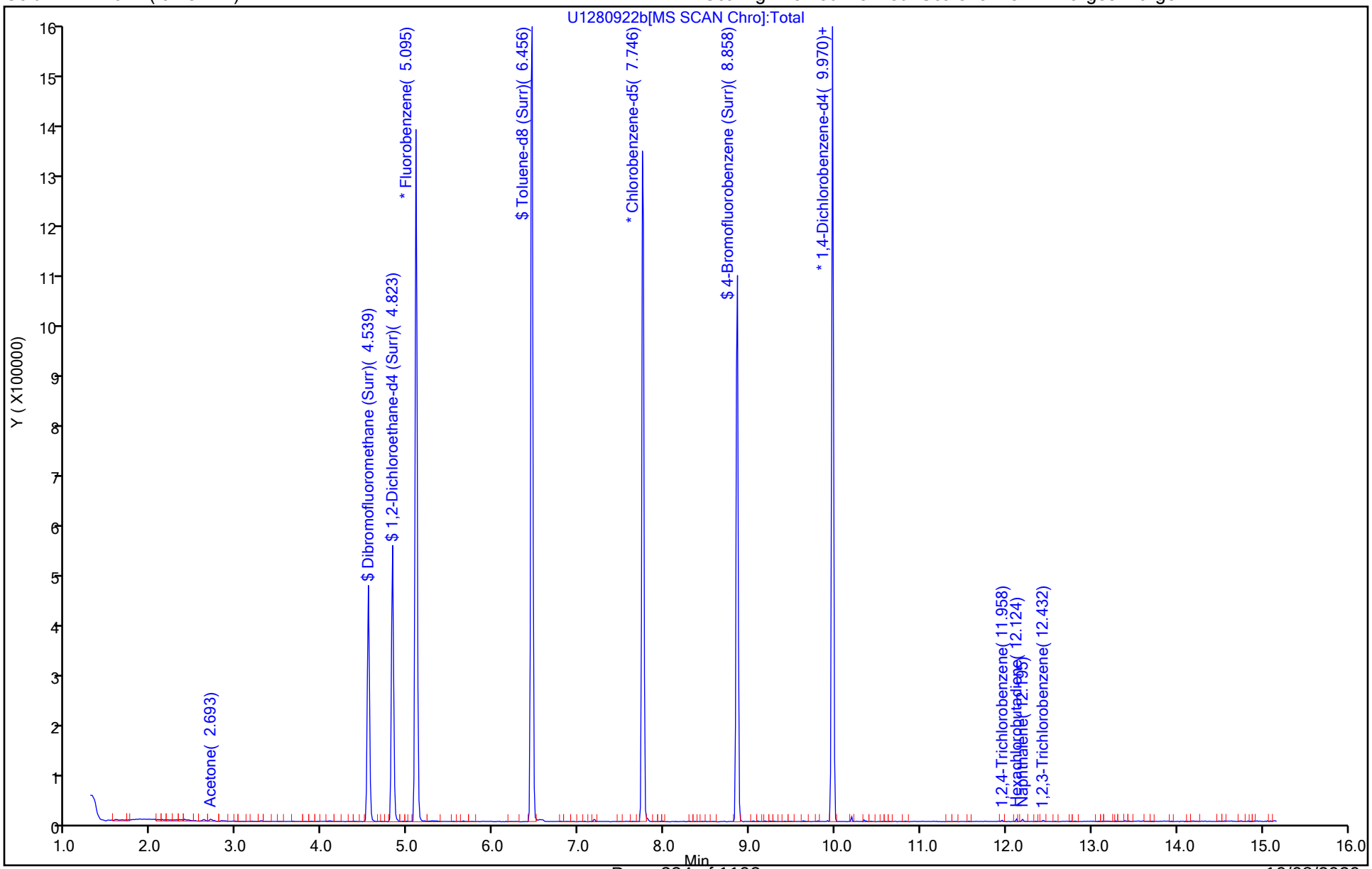
Report Date: 01-Oct-2020 14:02:47 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280922b.D

Injection Date:	30-Sep-2020 23:58:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-4	Lab Sample ID:	240-136984-4	Worklist Smp#:	23
Client ID:	MSA-SW37D-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280922b.D
Lims ID: 240-136984-B-4
Client ID: MSA-SW37D-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 23:58:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-023
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:02:47 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:02:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.8	89.03
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.6	92.91
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.53
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.1	105.59

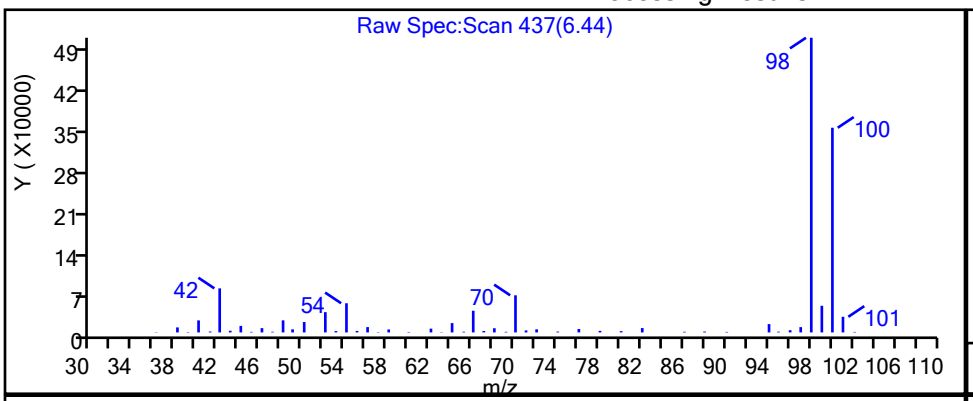
User Disabled Compound Report

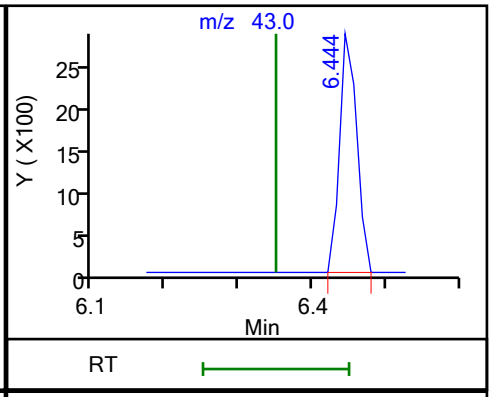
Eurofins TestAmerica, Canton

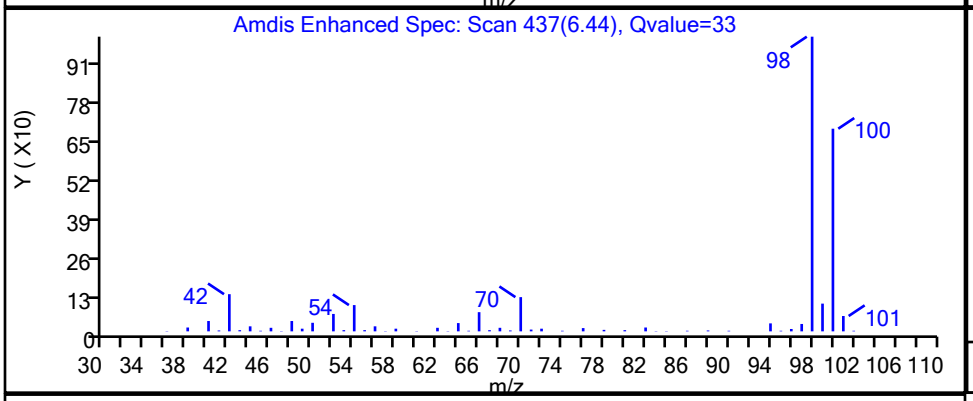
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280922b.D				
Injection Date:	30-Sep-2020 23:58:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-4	Lab Sample ID:	240-136984-4		
Client ID:	MSA-SW37D-092220				
Operator ID:	001904	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

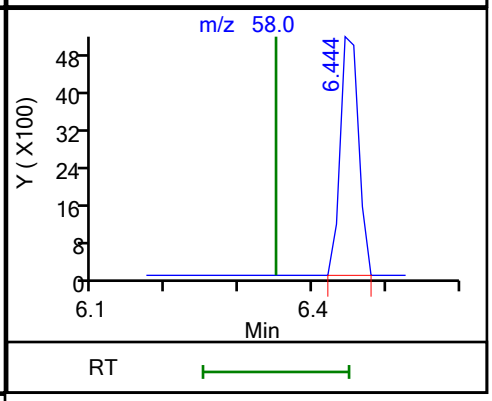
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

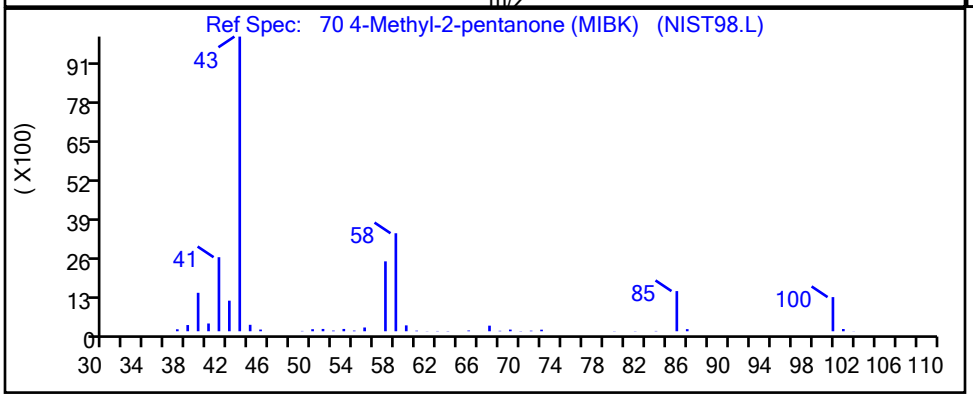
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4685	0.194956
6.44	58.00	8950	

Reviewer: laveyt, 01-Oct-2020 14:02:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		47-134
1868-53-7	Dibromofluoromethane (Surr)	81		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		75-130
2037-26-5	Toluene-d8 (Surr)	96		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38A-092220 Lab Sample ID: 240-136984-5

Matrix: Water Lab File ID: U1280923.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:38

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280923.D
Lims ID: 240-136984-A-5
Client ID: MSA-SW38A-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 00:21:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-024
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 13:54:32 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 13:54:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1135944	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	806183	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	405220	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	243159	16.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	317893	17.2	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1042032	19.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	96	361884	19.4	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.693	2.693	0.000	97	6519	0.9015	
25 Carbon disulfide	76		2.823				ND	7
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.515				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	7
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	7
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	7
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

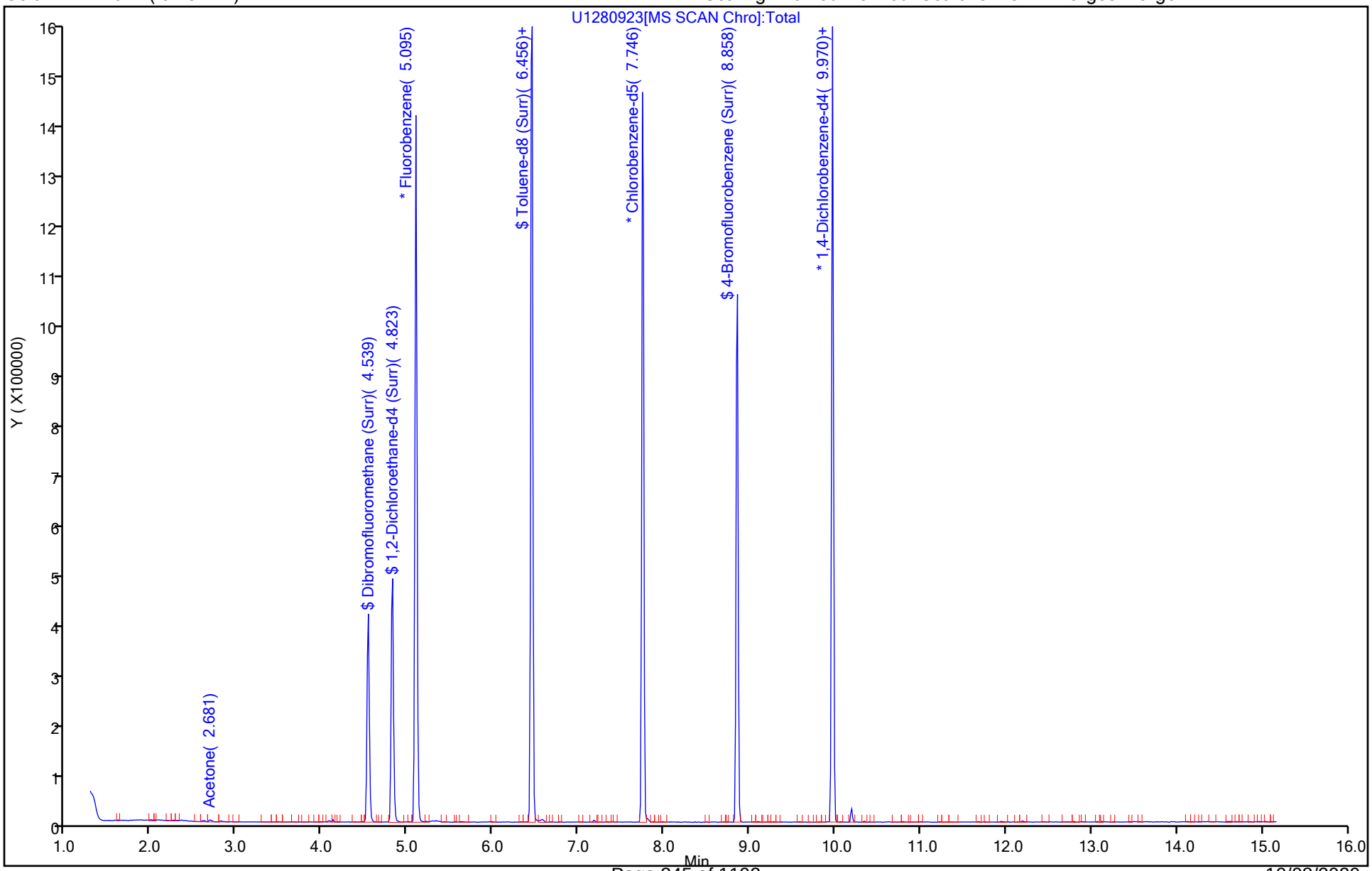
Report Date: 01-Oct-2020 13:54:32 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280923.D

Injection Date:	01-Oct-2020 00:21:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-5	Lab Sample ID:	240-136984-5	Worklist Smp#:	24
Client ID:	MSA-SW38A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280923.D
Lims ID: 240-136984-A-5
Client ID: MSA-SW38A-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 00:21:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-024
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 13:54:32 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 13:54:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	16.1	80.64
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	17.2	86.14
$ 6 Toluene-d8 (Surr)	20.0	19.1	95.55
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.4	96.92

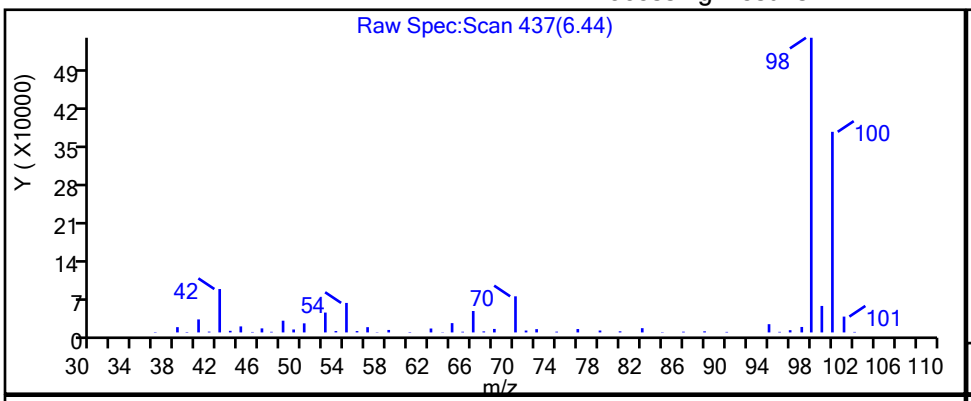
User Disabled Compound Report

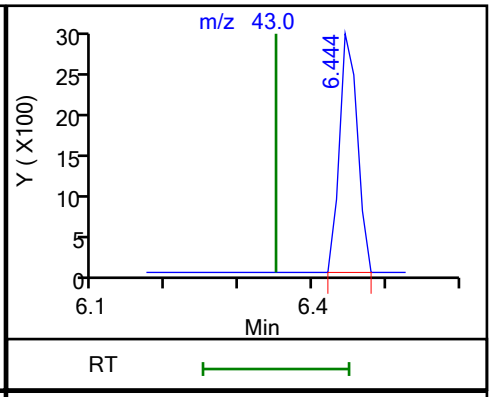
Eurofins TestAmerica, Canton

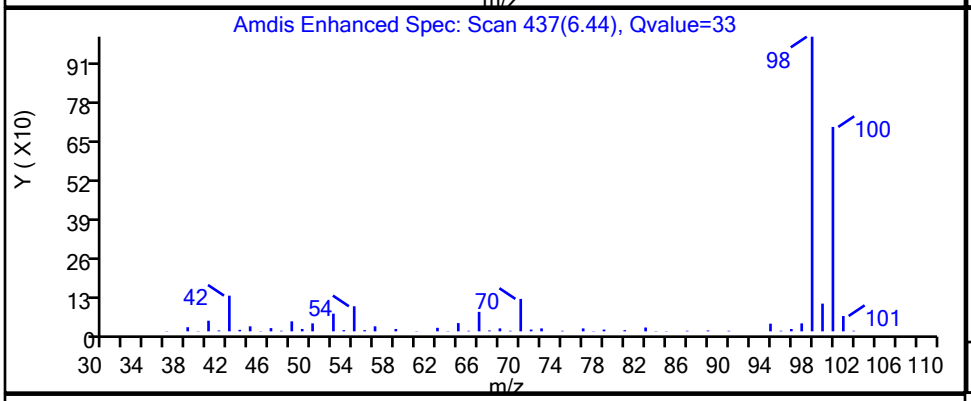
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280923.D				
Injection Date:	01-Oct-2020 00:21:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-5	Lab Sample ID:	240-136984-5		
Client ID:	MSA-SW38A-092220				
Operator ID:	001904	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

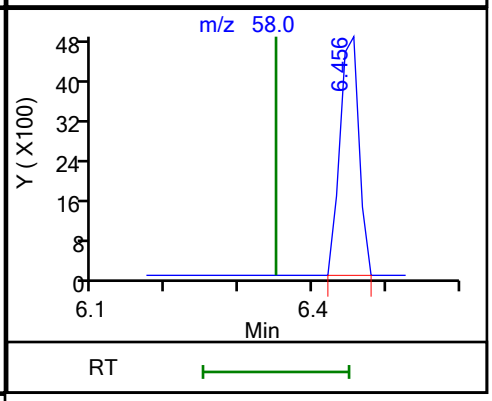
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

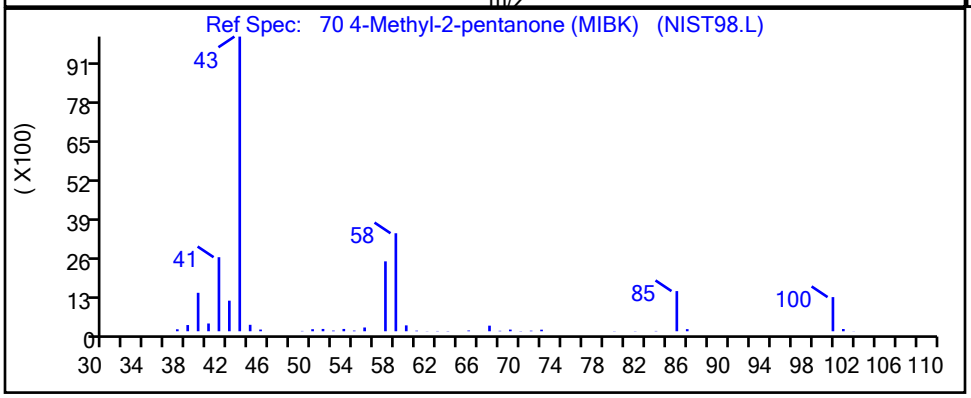
Processing Results











RT	Mass	Response	Amount
6.44	43.00	5017	0.203480
6.46	58.00	8813	

Reviewer: laveyt, 01-Oct-2020 13:50:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
1868-53-7	Dibromofluoromethane (Surr)	85		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38B-092220 Lab Sample ID: 240-136984-6

Matrix: Water Lab File ID: U1280924b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:42

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 00:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280924b.D
Lims ID: 240-136984-B-6
Client ID: MSA-SW38B-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 00:44:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-025
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:03:10 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:03:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1119130	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	790001	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	400602	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	95	253932	17.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	332229	18.3	
$ 6 Toluene-d8 (Surr)	98	6.444	6.456	-0.012	93	1077194	20.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	95	384925	21.0	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.681	2.693	-0.012	97	10585	1.49	
25 Carbon disulfide	76		2.823				ND	7
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.515				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	7
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

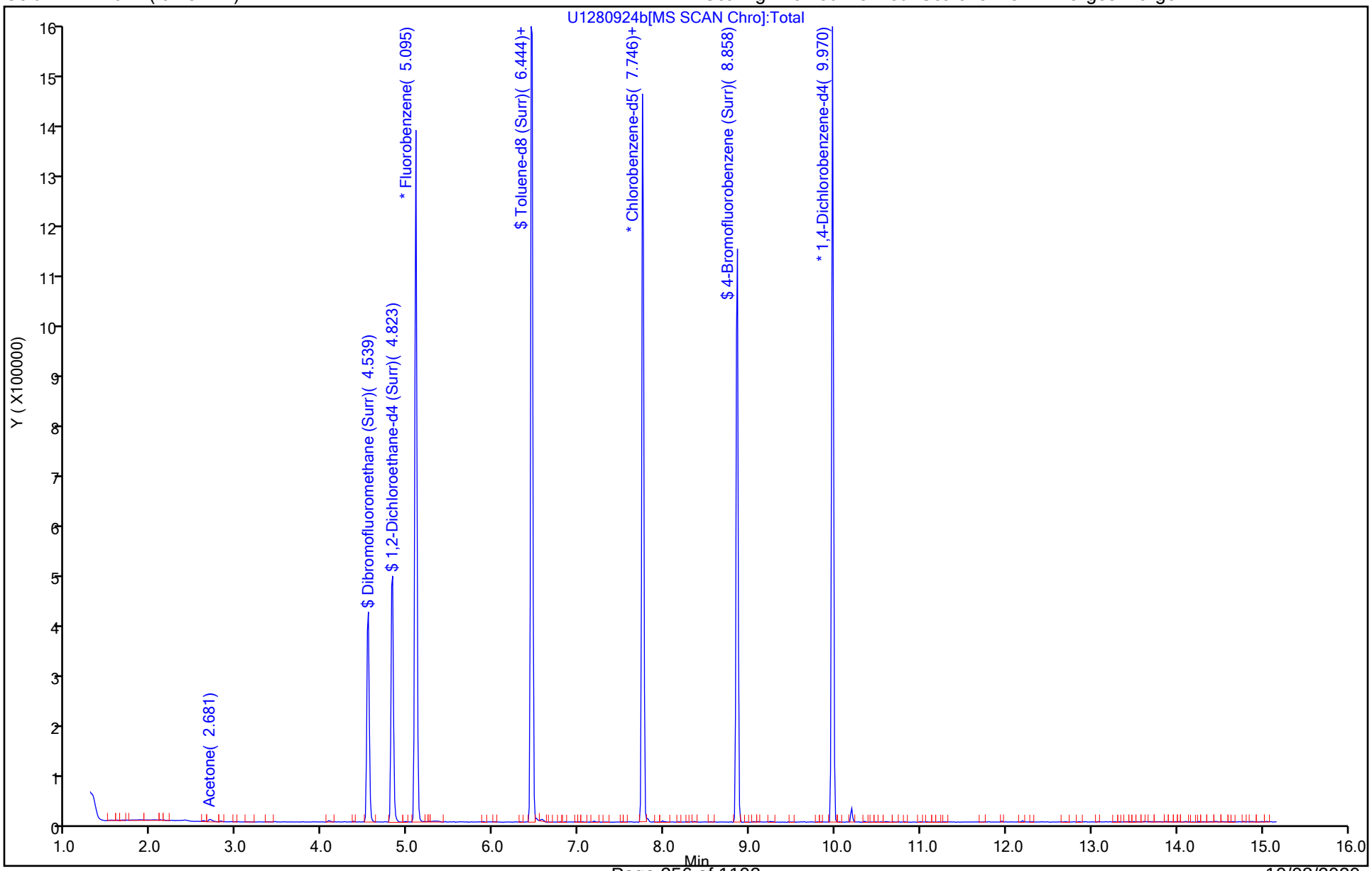
Report Date: 01-Oct-2020 14:03:10 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280924b.D

Injection Date:	01-Oct-2020 00:44:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-6	Lab Sample ID:	240-136984-6	Worklist Smp#:	25
Client ID:	MSA-SW38B-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280924b.D
Lims ID: 240-136984-B-6
Client ID: MSA-SW38B-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 00:44:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-025
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:03:10 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:03:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.1	85.47
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.3	91.37
$ 6 Toluene-d8 (Surr)	20.0	20.2	100.80
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.0	105.20

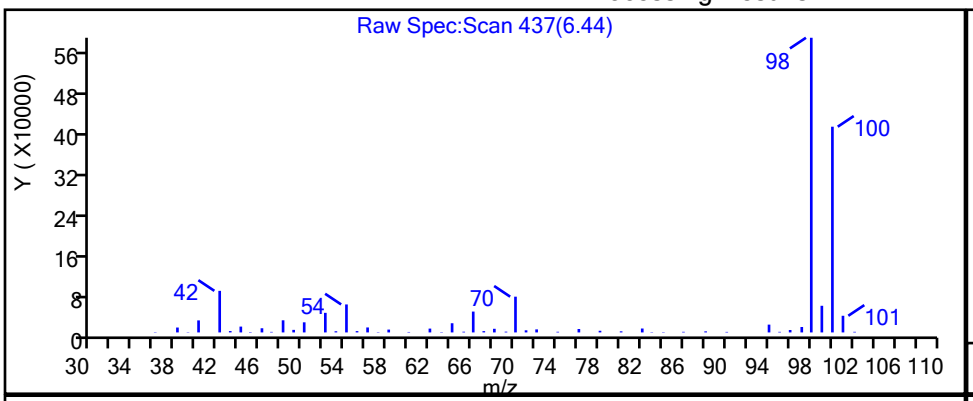
User Disabled Compound Report

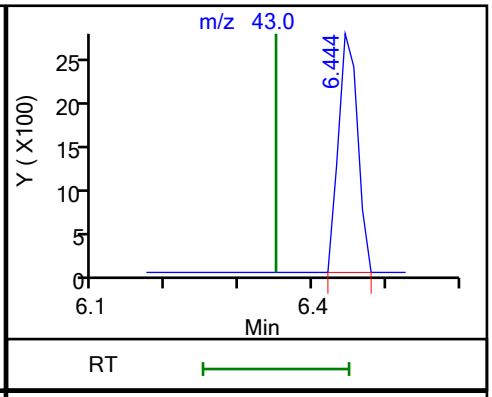
Eurofins TestAmerica, Canton

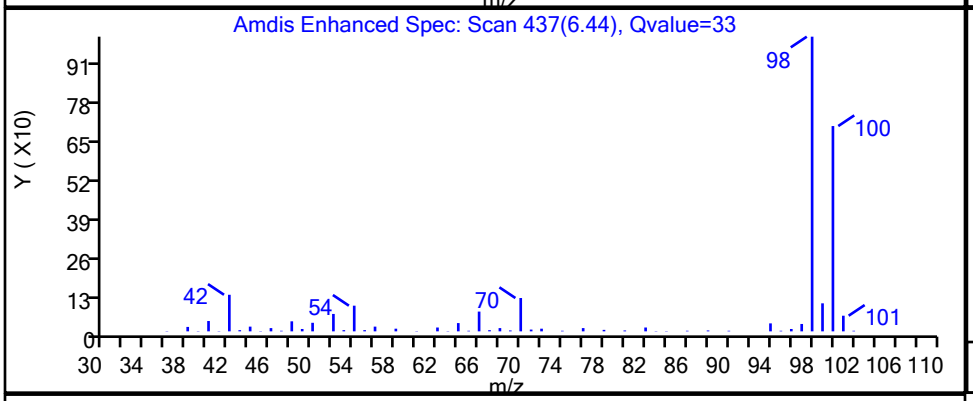
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280924b.D				
Injection Date:	01-Oct-2020 00:44:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-6	Lab Sample ID:	240-136984-6		
Client ID:	MSA-SW38B-092220				
Operator ID:	001904	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

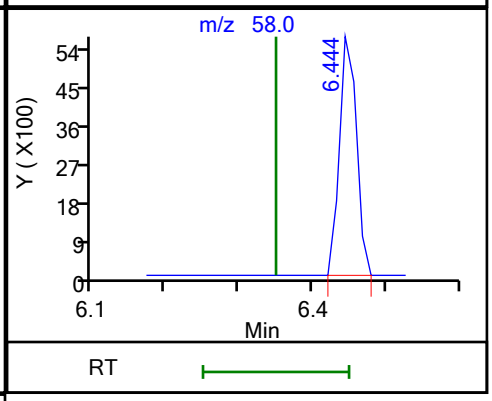
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

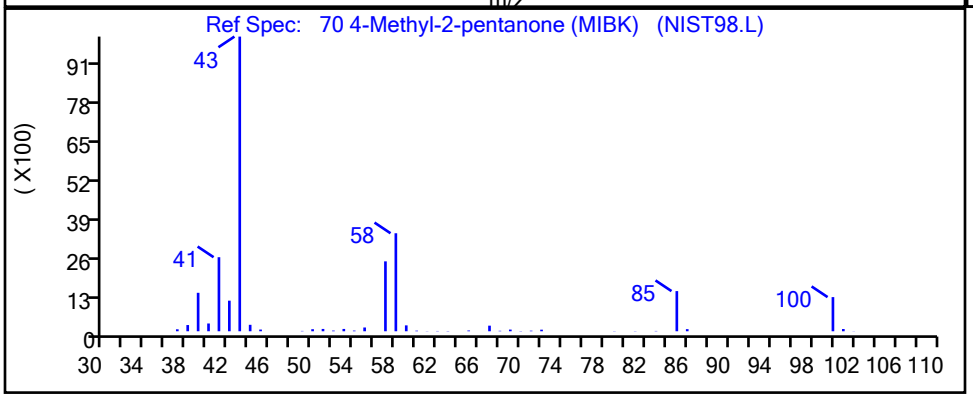
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4961	0.204232
6.44	58.00	9185	

Reviewer: laveyt, 01-Oct-2020 14:03:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	100		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38C-092220 Lab Sample ID: 240-136984-7

Matrix: Water Lab File ID: U1280925.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280925.D
Lims ID: 240-136984-B-7
Client ID: MSA-SW38C-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 01:06:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-026
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:03:59 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:04:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1127554	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	792276	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	418314	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	264683	17.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	349357	19.1	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1076298	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	95	397021	21.6	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.693	2.693	0.000	99	8059	1.12	
25 Carbon disulfide	76		2.823				ND	7
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.515				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

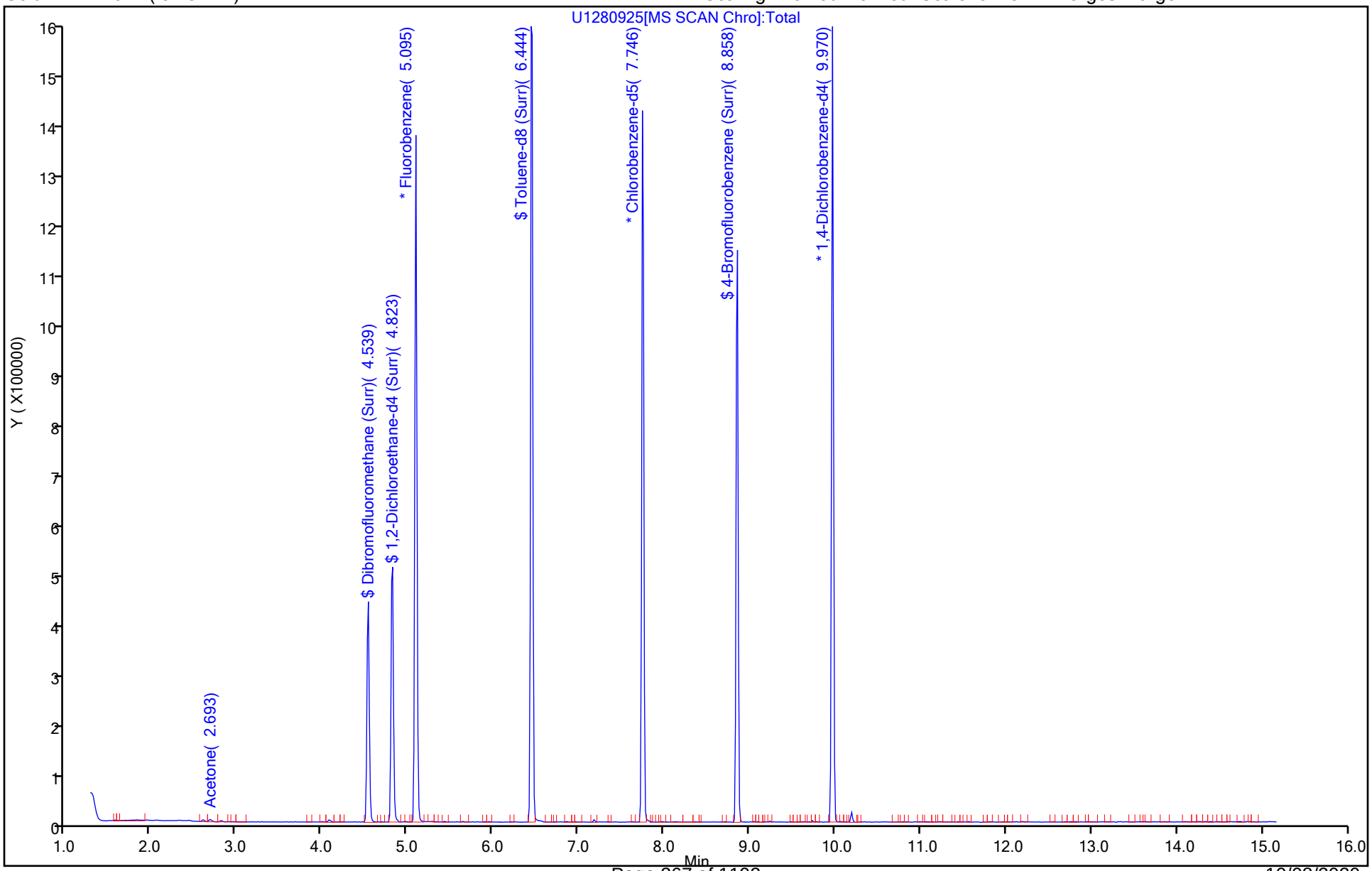
Report Date: 01-Oct-2020 14:04:09 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280925.D

Injection Date:	01-Oct-2020 01:06:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-7	Lab Sample ID:	240-136984-7	Worklist Smp#:	26
Client ID:	MSA-SW38C-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280925.D
Lims ID: 240-136984-B-7
Client ID: MSA-SW38C-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 01:06:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-026
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:03:59 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:04:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.7	88.43
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.1	95.37
$ 6 Toluene-d8 (Surr)	20.0	20.1	100.43
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.6	108.20

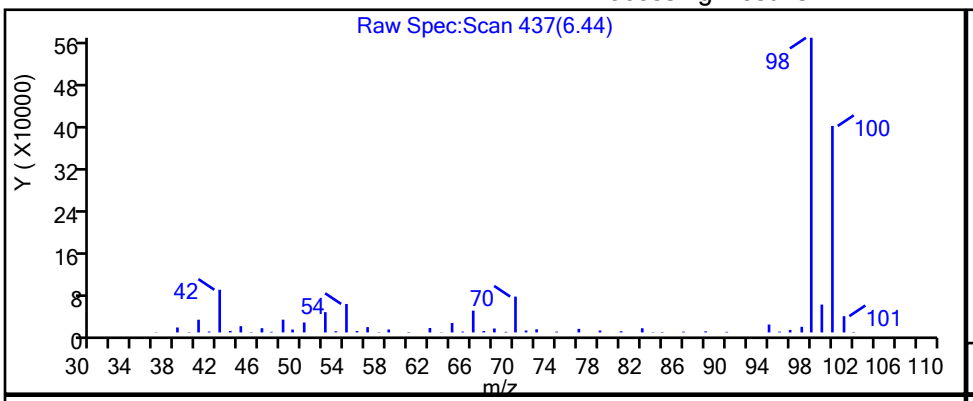
User Disabled Compound Report

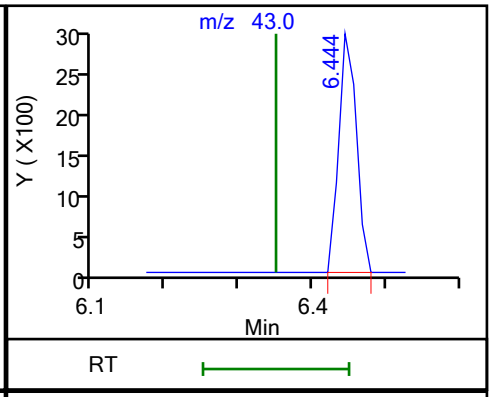
Eurofins TestAmerica, Canton

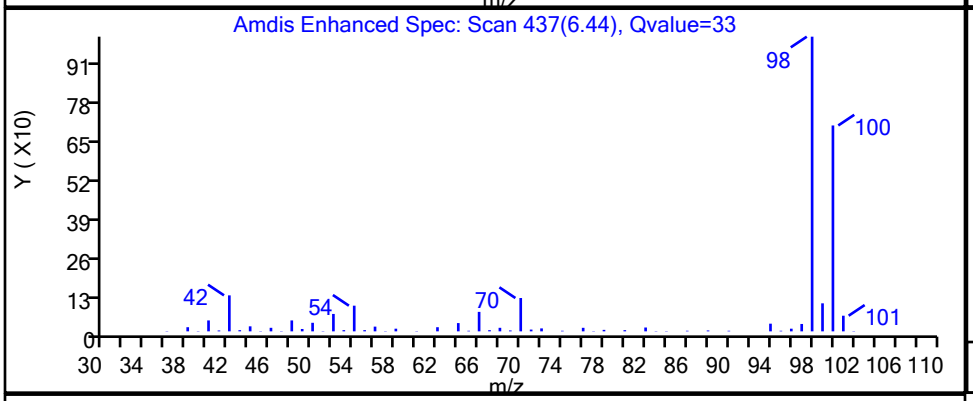
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280925.D				
Injection Date:	01-Oct-2020 01:06:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-7	Lab Sample ID:	240-136984-7		
Client ID:	MSA-SW38C-092220				
Operator ID:	001904	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

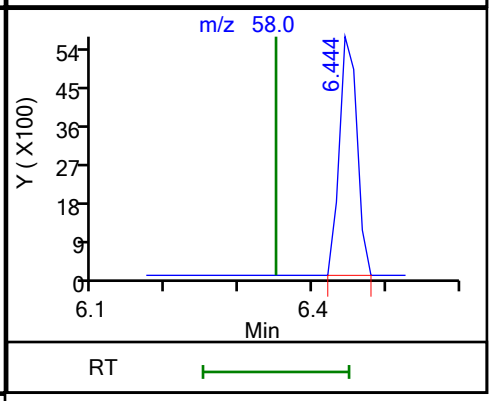
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

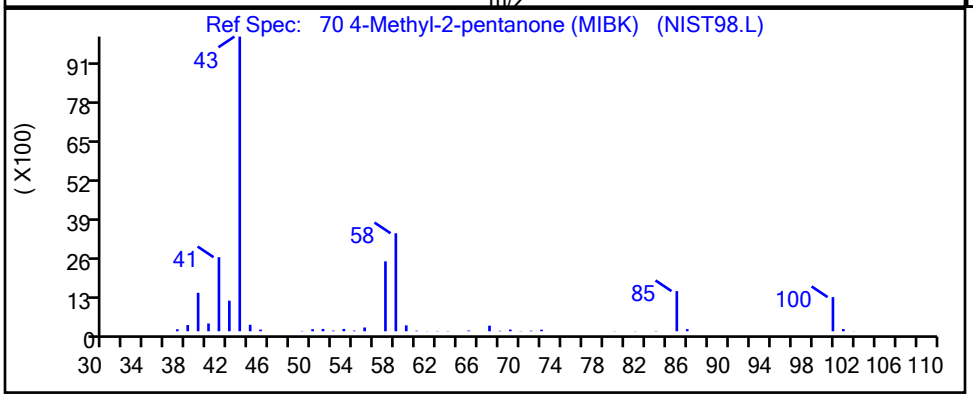
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4915	0.200827
6.44	58.00	9443	

Reviewer: laveyt, 01-Oct-2020 13:50:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	86		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW38D-092220 Lab Sample ID: 240-136984-8

Matrix: Water Lab File ID: U1280926b.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280926b.D
Lims ID: 240-136984-B-8
Client ID: MSA-SW38D-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 01:29:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-027
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:03:59 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:03:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1135269	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	800416	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	96	413446	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	259308	17.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	337348	18.3	
$ 6 Toluene-d8 (Surr)	98	6.444	6.456	-0.012	93	1070759	19.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	96	376306	20.3	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.693	2.693	0.000	99	11250	1.56	
25 Carbon disulfide	76		2.823				ND	7
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.515				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

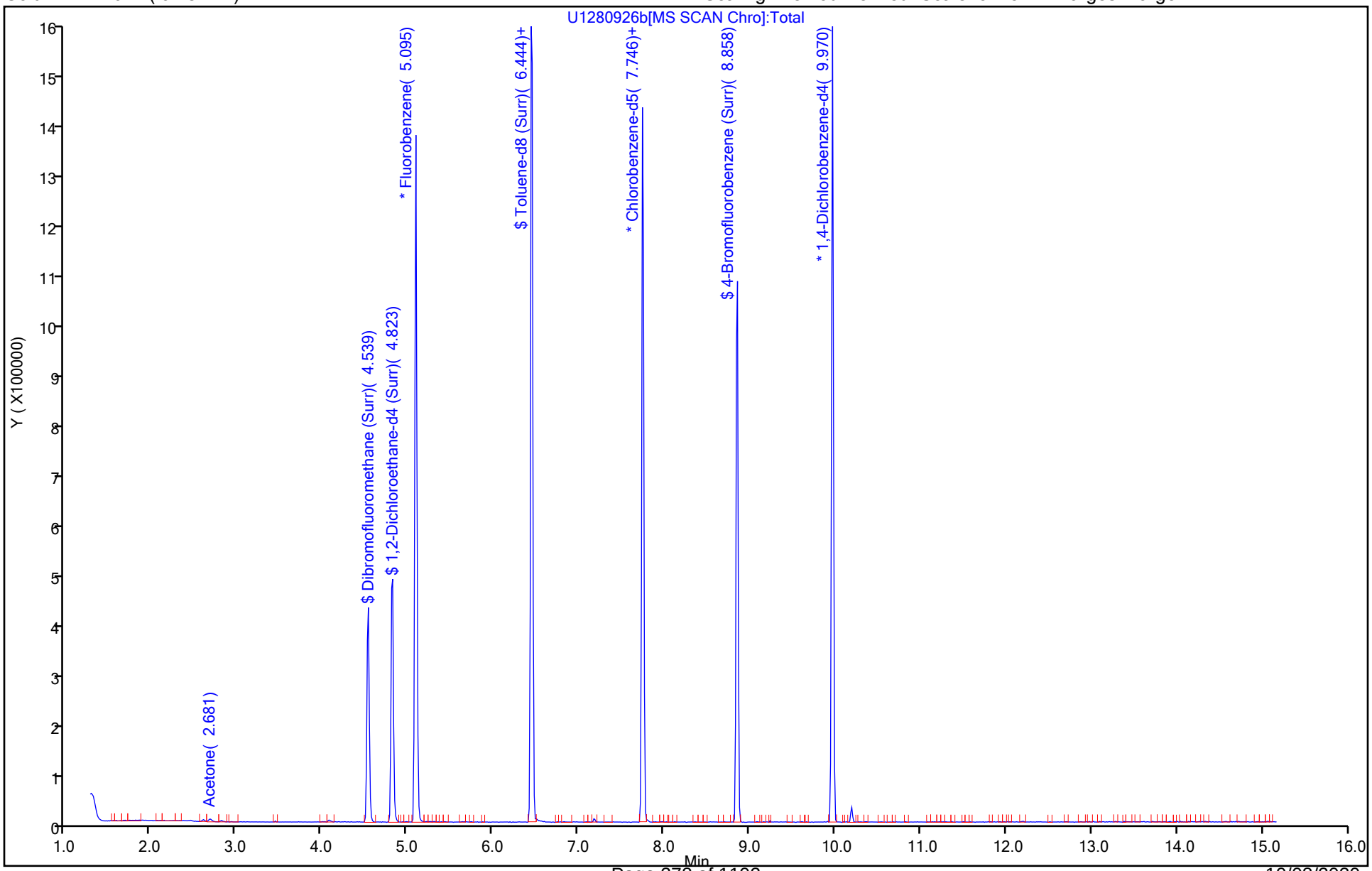
Report Date: 01-Oct-2020 14:03:59 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280926b.D

Injection Date:	01-Oct-2020 01:29:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-8	Lab Sample ID:	240-136984-8	Worklist Smp#:	27
Client ID:	MSA-SW38D-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280926b.D
Lims ID: 240-136984-B-8
Client ID: MSA-SW38D-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 01:29:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-027
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:03:59 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:03:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.2	86.04
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.3	91.46
$ 6 Toluene-d8 (Surr)	20.0	19.8	98.89
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.3	101.51

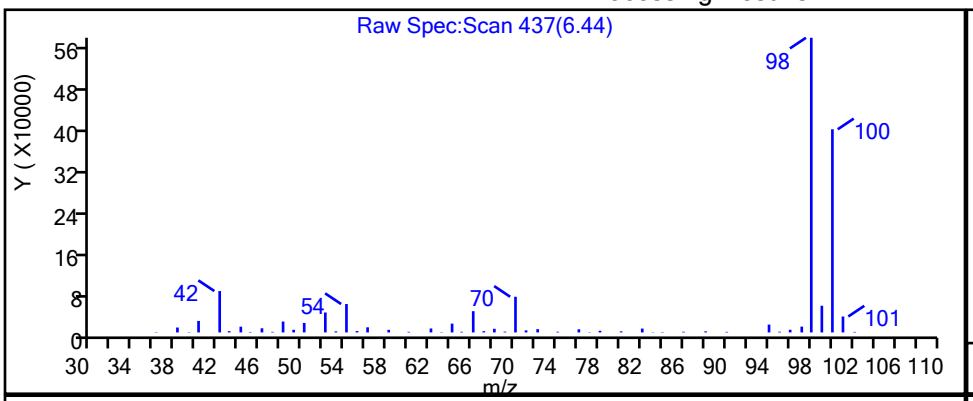
User Disabled Compound Report

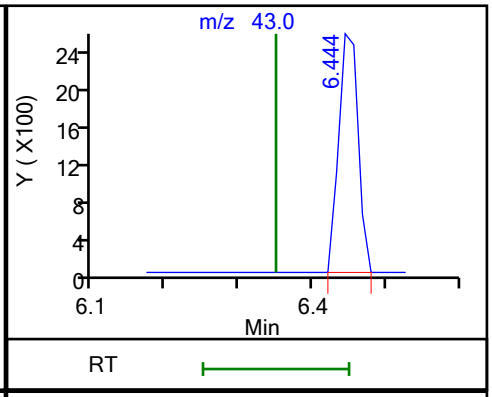
Eurofins TestAmerica, Canton

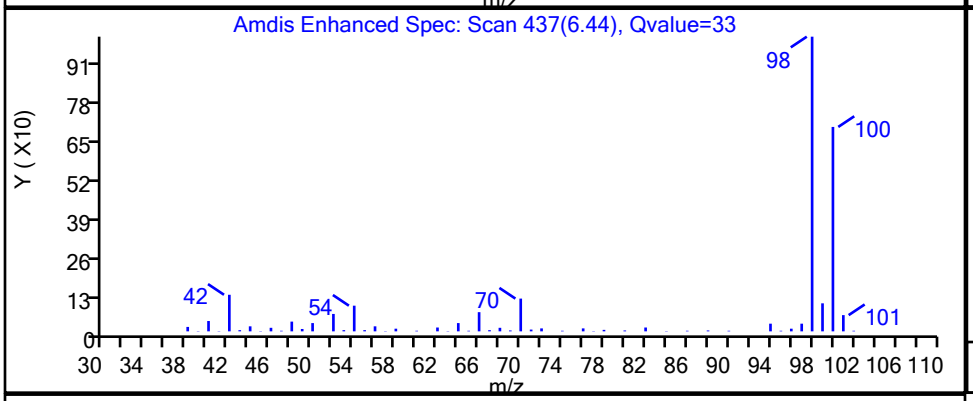
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280926b.D				
Injection Date:	01-Oct-2020 01:29:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-8	Lab Sample ID:	240-136984-8		
Client ID:	MSA-SW38D-092220				
Operator ID:	001904	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

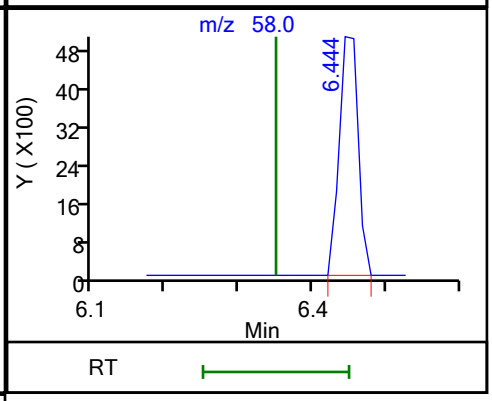
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

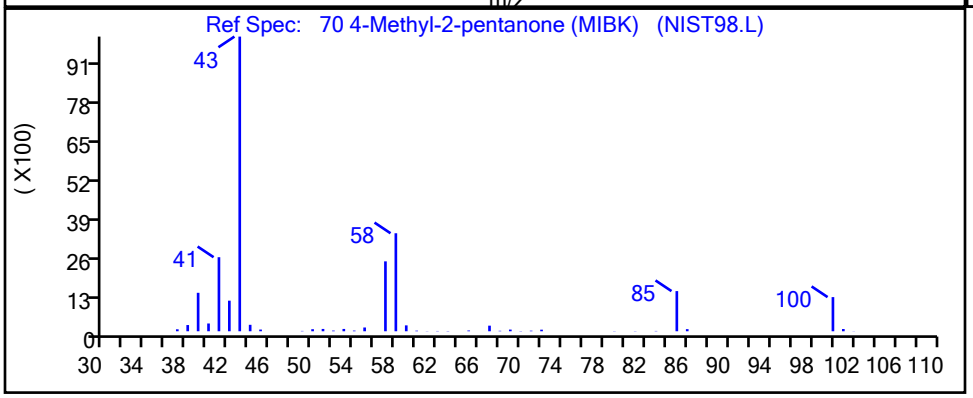
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4645	0.188505
6.44	58.00	9120	

Reviewer: laveyt, 01-Oct-2020 14:03:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	105		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 1 TIC Result Total: 3.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	9.37	3.5	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40A-092220 Lab Sample ID: 240-136984-9

Matrix: Water Lab File ID: U1280927.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 01:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280927.D
Lims ID: 240-136984-B-9
Client ID: MSA-SW40A-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 01:51:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-028
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 13:49:48 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 13:49:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1103426	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	730942	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	392446	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	257679	17.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.811	4.823	-0.012	94	336868	18.8	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1034111	20.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	96	376676	22.3	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.693	2.693	0.000	98	9339	1.33	
25 Carbon disulfide	76		2.823				ND	
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.515				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

Eurofins TestAmerica, Canton
Tentatively Identified Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280927.D				
Lims ID:	240-136984-B-9				
Client ID:	MSA-SW40A-092220				
Sample Type:	Client				
Inject. Date:	01-Oct-2020 01:51:30	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102455-028				
Operator ID:	001904	Instrument ID:	A3UX12		
Method:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	01-Oct-2020 13:49:48	Calib Date:	16-Jul-2020 20:20:30		
Tic RT Window:	1.600 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\chromfs\Canton\Database\NIST98.L				
Min. Match:	50				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1635				
First Level Reviewer: laveyt		Date:	01-Oct-2020 13:49:48		

Tentative Identified Compound Results

RT	Area	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
Unknown								
9.367	405166	3.52	3					

Quantitation Compounds

Compound	RT	Area	Amount ug/l
* 3 1,4-Dichlorobenzene-d4	9.970	2303651	20.0

QC Flag Legend

Processing Flags

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

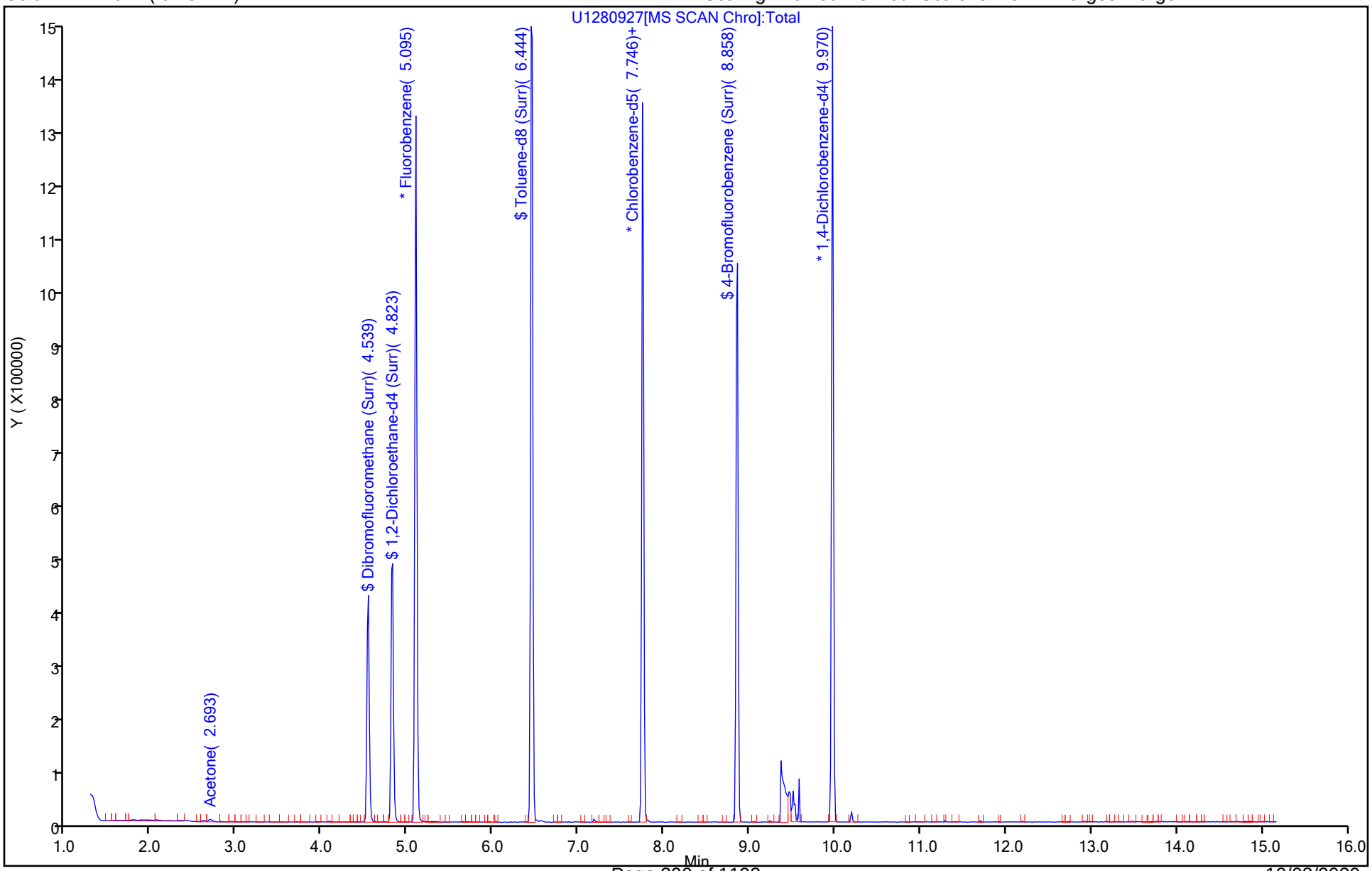
Report Date: 01-Oct-2020 13:49:49 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280927.D

Injection Date:	01-Oct-2020 01:51:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-9	Lab Sample ID:	240-136984-9	Worklist Smp#:	28
Client ID:	MSA-SW40A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280927.D
Lims ID: 240-136984-B-9
Client ID: MSA-SW40A-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 01:51:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-028
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 13:49:48 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 13:49:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.6	87.97
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.8	93.97
$ 6 Toluene-d8 (Surr)	20.0	20.9	104.59
$ 7 4-Bromofluorobenzene (Surr)	20.0	22.3	111.26

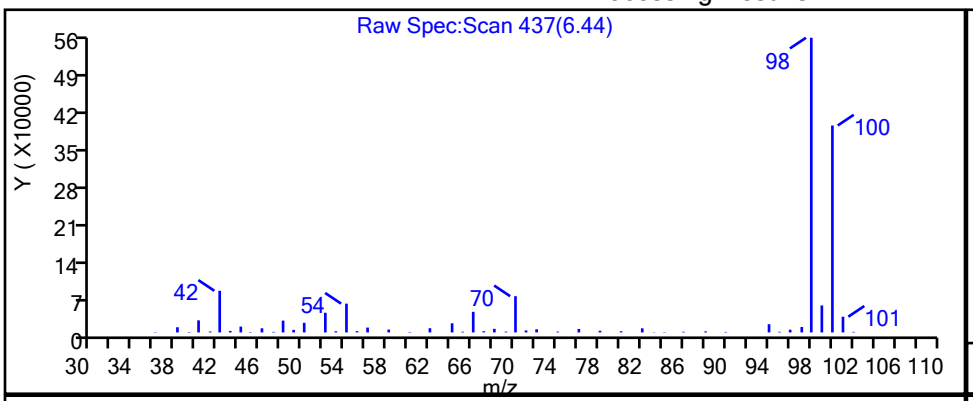
User Disabled Compound Report

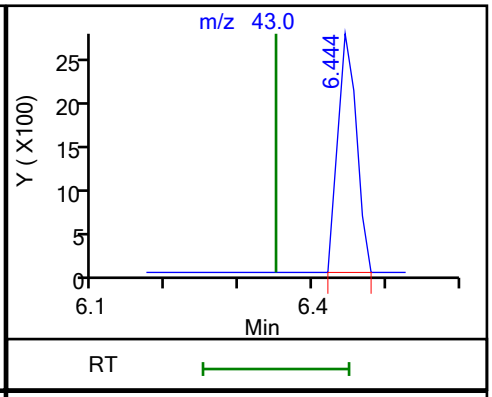
Eurofins TestAmerica, Canton

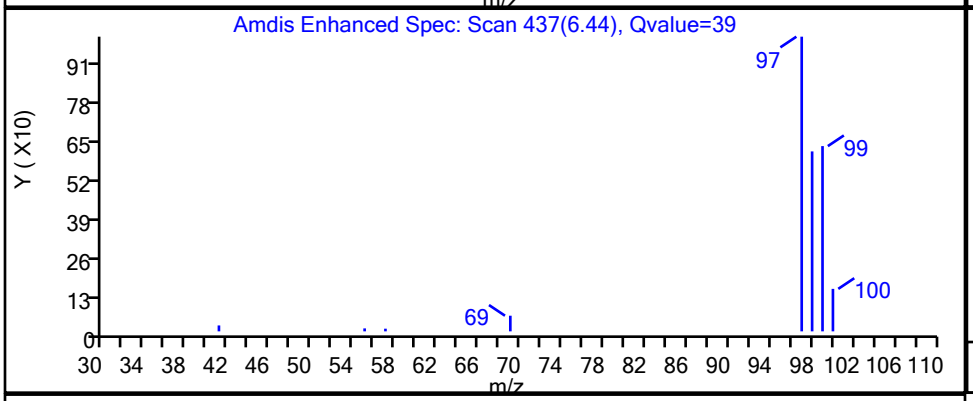
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280927.D				
Injection Date:	01-Oct-2020 01:51:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-9	Lab Sample ID:	240-136984-9		
Client ID:	MSA-SW40A-092220				
Operator ID:	001904	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

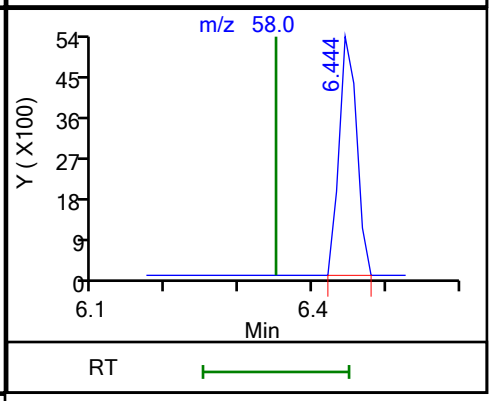
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

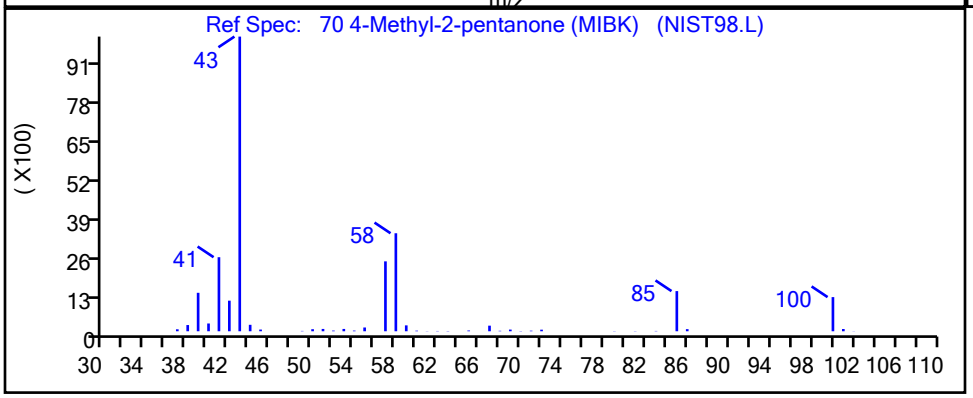
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4837	0.201961
6.44	58.00	8953	

Reviewer: laveyt, 01-Oct-2020 13:49:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

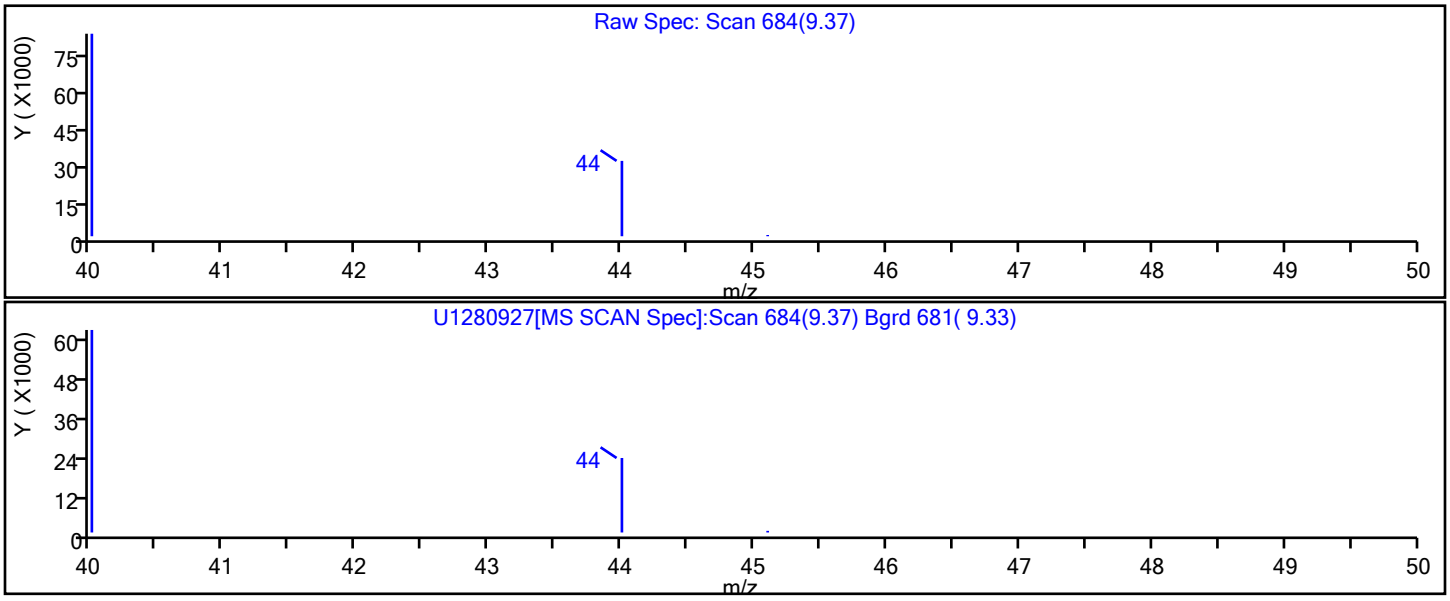
Report Date: 01-Oct-2020 13:49:49 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280927.D

Injection Date:	01-Oct-2020 01:51:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-9	Lab Sample ID:	240-136984-9		
Client ID:	MSA-SW40A-092220				
Operator ID:	001904	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:		Detector	MS SCAN		

No Library Matches Found above the Threshold: 50



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40B-092220 Lab Sample ID: 240-136984-10

Matrix: Water Lab File ID: U1280928b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:01

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280928b.D
Lims ID: 240-136984-B-10
Client ID: MSA-SW40B-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 02:14:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-029
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:03:59 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:05:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1098231	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	748614	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	386922	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.527	4.539	-0.012	94	261498	17.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.811	4.823	-0.012	94	341520	19.1	
$ 6 Toluene-d8 (Surr)	98	6.444	6.456	-0.012	93	1045730	20.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.846	8.858	-0.012	92	373233	21.5	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.693	2.693	0.000	98	6026	0.8619	
25 Carbon disulfide	76		2.823				ND	
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693			ND		
54 Benzene	78		4.870			ND		
55 1,2-Dichloroethane	62		4.882			ND		
56 Tert-amyl methyl ether	73		4.953			ND		
59 Trichloroethene	130		5.403			ND		
62 1,2-Dichloropropane	63		5.604			ND		
64 Dibromomethane	174		5.711			ND		
66 Dichlorobromomethane	83		5.829			ND		
68 2-Chloroethyl vinyl ether	63		6.089			ND		
69 cis-1,3-Dichloropropene	75		6.219			ND		
70 4-Methyl-2-pentanone (MIBK)	43		6.350			ND		
71 Toluene	91		6.515			ND		
72 trans-1,3-Dichloropropene	75		6.705			ND		
76 Tetrachloroethene	166		7.000			ND		
77 1,3-Dichloropropane	76		7.024			ND		
78 2-Hexanone	43		7.095			ND		
80 Chlorodibromomethane	129		7.225			ND		
81 Ethylene Dibromide	107		7.332			ND		
83 Chlorobenzene	112		7.781			ND		
84 1,1,1,2-Tetrachloroethane	131		7.852			ND		
85 Ethylbenzene	106		7.876			ND		
86 m-Xylene & p-Xylene	106		7.983			ND		
87 o-Xylene	106		8.361			ND		
88 Styrene	104		8.373			ND		
89 Bromoform	173		8.550			ND		
90 Isopropylbenzene	105		8.704			ND		
93 1,1,2,2-Tetrachloroethane	83		9.000			ND		
92 Bromobenzene	156		9.000			ND		
94 1,2,3-Trichloropropane	110		9.036			ND		
96 N-Propylbenzene	120		9.095			ND		
97 2-Chlorotoluene	126		9.178			ND		
99 4-Chlorotoluene	126		9.284			ND		
102 tert-Butylbenzene	119		9.580			ND		
104 1,2,4-Trimethylbenzene	105		9.627			ND		
105 sec-Butylbenzene	105		9.793			ND		
106 1,3-Dichlorobenzene	146		9.911			ND		
107 4-Isopropyltoluene	119		9.947			ND		
108 1,4-Dichlorobenzene	146		9.994			ND		
109 1,2,3-Trimethylbenzene	105		10.042			ND		
111 n-Butylbenzene	91		10.337			ND		
112 1,2-Dichlorobenzene	146		10.361			ND		
113 1,2-Dibromo-3-Chloropropane	157		11.130			ND		
115 1,2,4-Trichlorobenzene	180		11.947			ND		
116 Hexachlorobutadiene	225		12.124			ND		
117 Naphthalene	128		12.195			ND		7
118 1,2,3-Trichlorobenzene	180		12.432			ND		
S 128 Xylenes, Total	106		16.020			ND		
T 129 Chlorodifluoromethane TIC	51		1.250			ND		

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

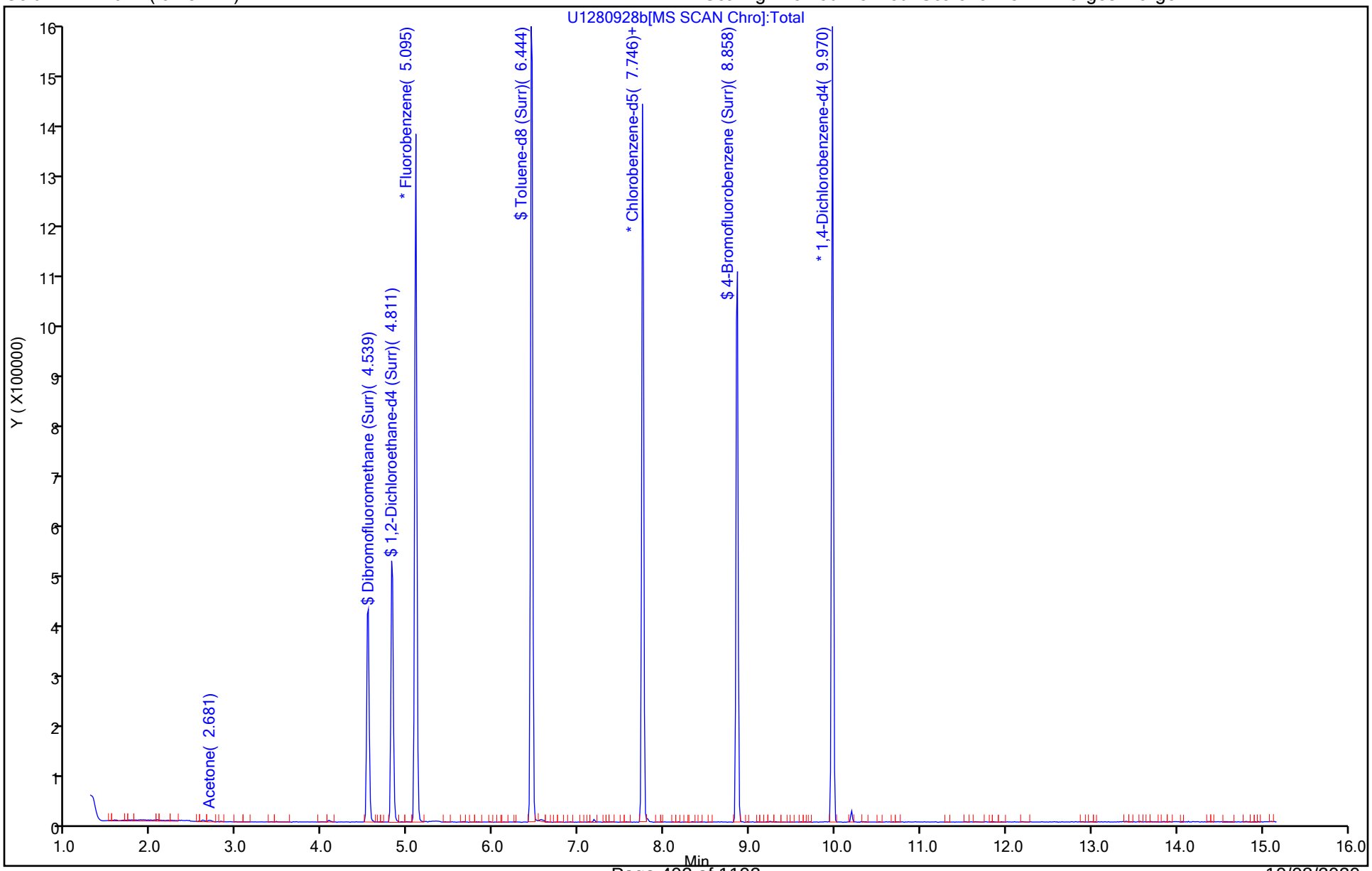
Report Date: 01-Oct-2020 14:05:04 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280928b.D

Injection Date:	01-Oct-2020 02:14:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-10	Lab Sample ID:	240-136984-10	Worklist Smp#:	29
Client ID:	MSA-SW40B-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280928b.D
Lims ID: 240-136984-B-10
Client ID: MSA-SW40B-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 02:14:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-029
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:03:59 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:05:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.9	89.70
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.1	95.72
$ 6 Toluene-d8 (Surr)	20.0	20.7	103.26
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.5	107.65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	85		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40C-092220 Lab Sample ID: 240-136984-11

Matrix: Water Lab File ID: U1280929.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:06

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280929.D
Lims ID: 240-136984-A-11
Client ID: MSA-SW40C-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 02:37:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-030
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 13:49:22 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 13:49:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1117947	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.746	0.012	87	741520	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	96	390250	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	253417	17.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	327299	18.0	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	973385	19.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	94	338693	19.7	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.705	2.693	0.012	96	9130	1.28	
25 Carbon disulfide	76		2.823				ND	
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.515				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

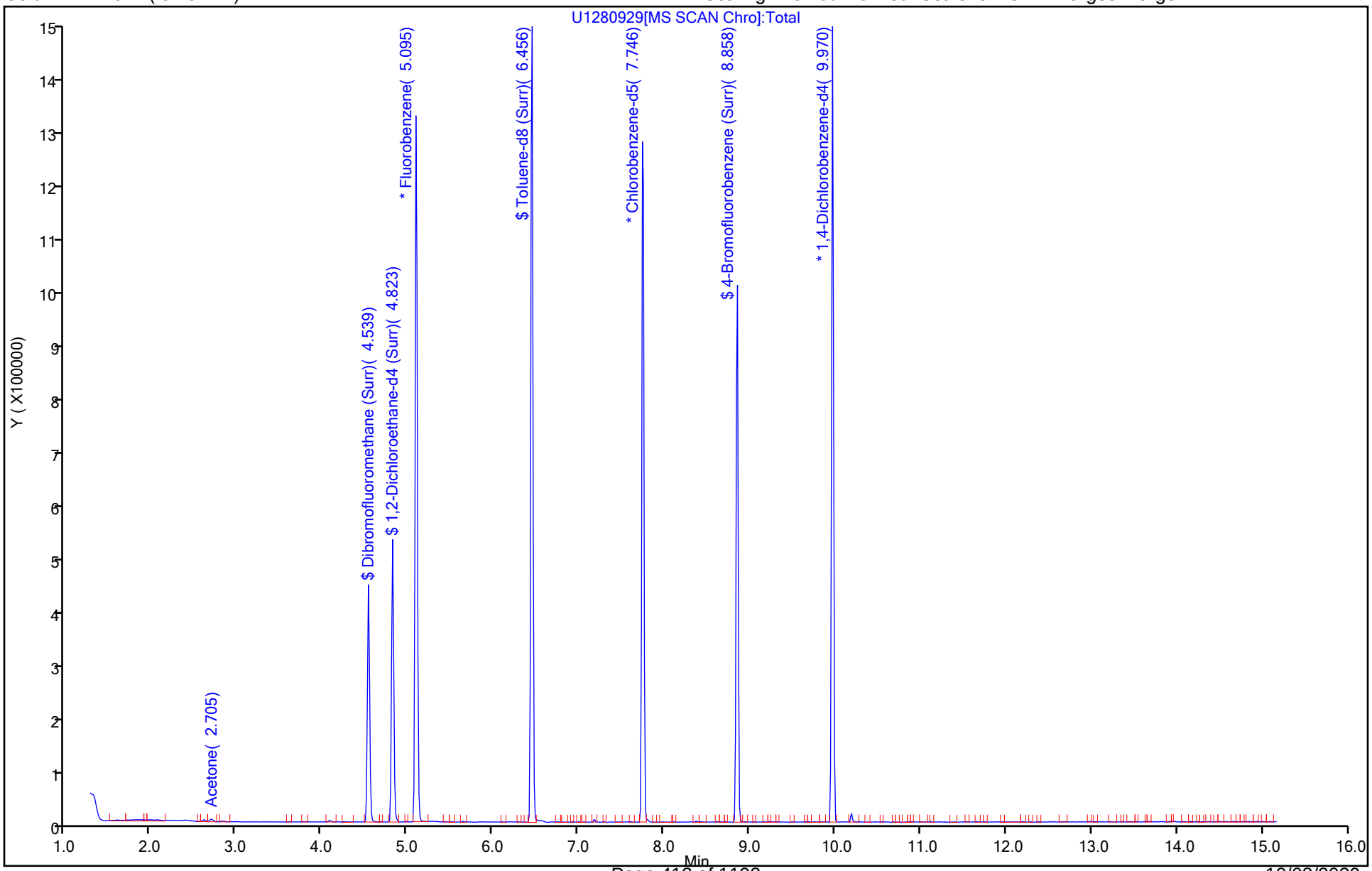
Report Date: 01-Oct-2020 13:49:22 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280929.D

Injection Date:	01-Oct-2020 02:37:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-11	Lab Sample ID:	240-136984-11	Worklist Smp#:	30
Client ID:	MSA-SW40C-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280929.D
Lims ID: 240-136984-A-11
Client ID: MSA-SW40C-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 02:37:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-030
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 13:49:22 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 13:49:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.1	85.39
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.0	90.11
$ 6 Toluene-d8 (Surr)	20.0	19.4	97.04
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.7	98.62

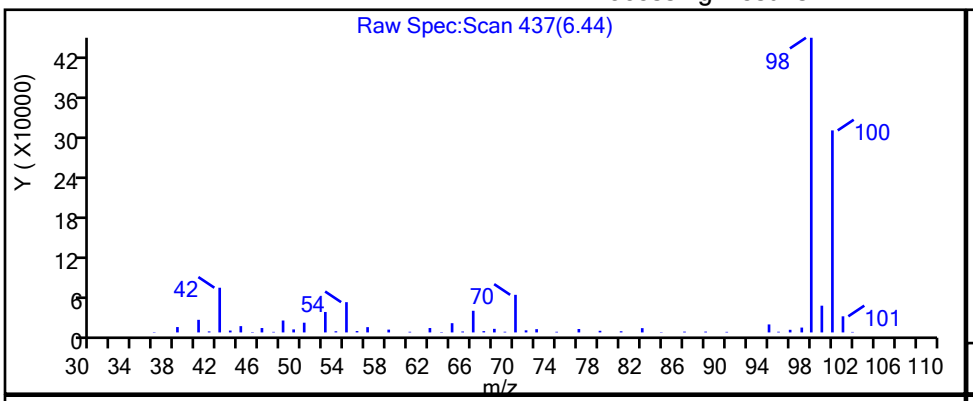
User Disabled Compound Report

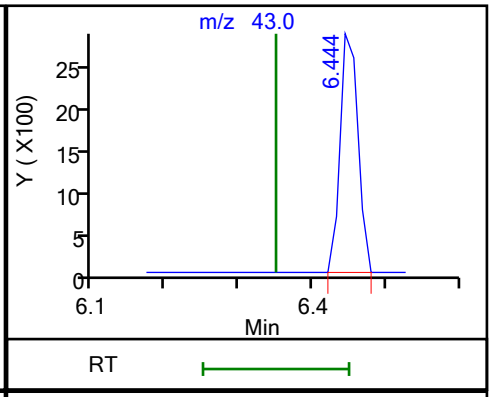
Eurofins TestAmerica, Canton

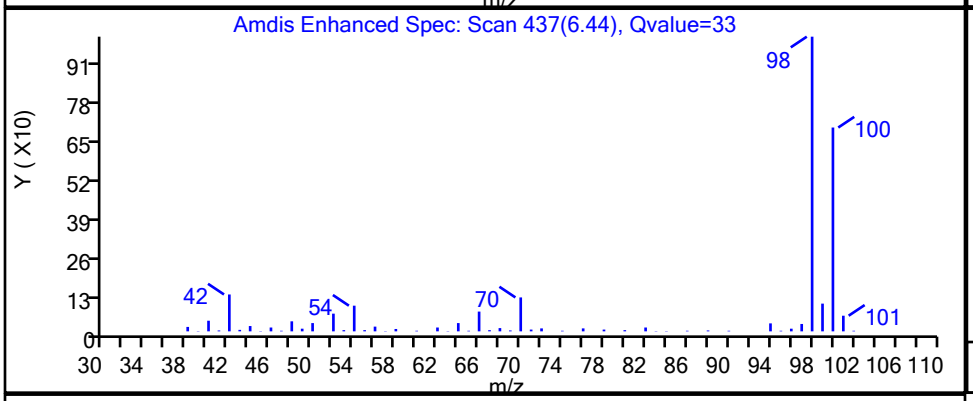
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280929.D				
Injection Date:	01-Oct-2020 02:37:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-11	Lab Sample ID:	240-136984-11		
Client ID:	MSA-SW40C-092220				
Operator ID:	001904	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

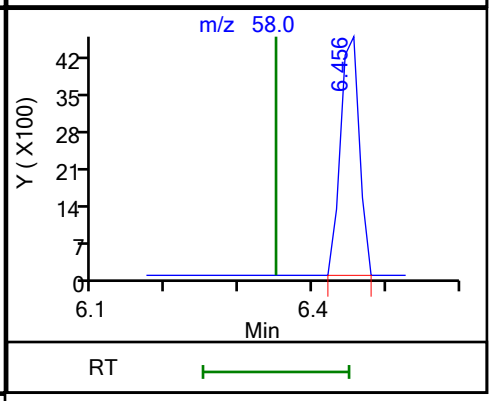
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

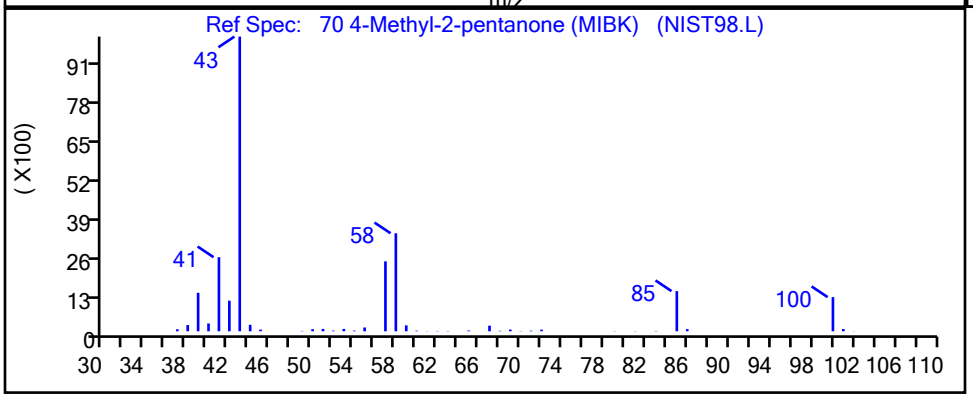
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4821	0.198679
6.46	58.00	8198	

Reviewer: laveyt, 01-Oct-2020 13:49:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.16	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.18	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.16	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW40D-092220 Lab Sample ID: 240-136984-12

Matrix: Water Lab File ID: U1280930b.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:09

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 02:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280930b.D
Lims ID: 240-136984-B-12
Client ID: MSA-SW40D-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 02:59:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-031
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:05:31 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:05:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	98	1077002	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	708348	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	357909	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	93	257567	18.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	339049	19.4	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	997864	20.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	96	365414	22.3	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.705	2.693	0.012	98	8228	1.20	
25 Carbon disulfide	76		2.823				ND	
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	7
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91	6.515	6.515	0.000	97	10828	0.1842	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106	7.982	7.983	0.000	96	3851	0.1648	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	7
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106				0		0.1648	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

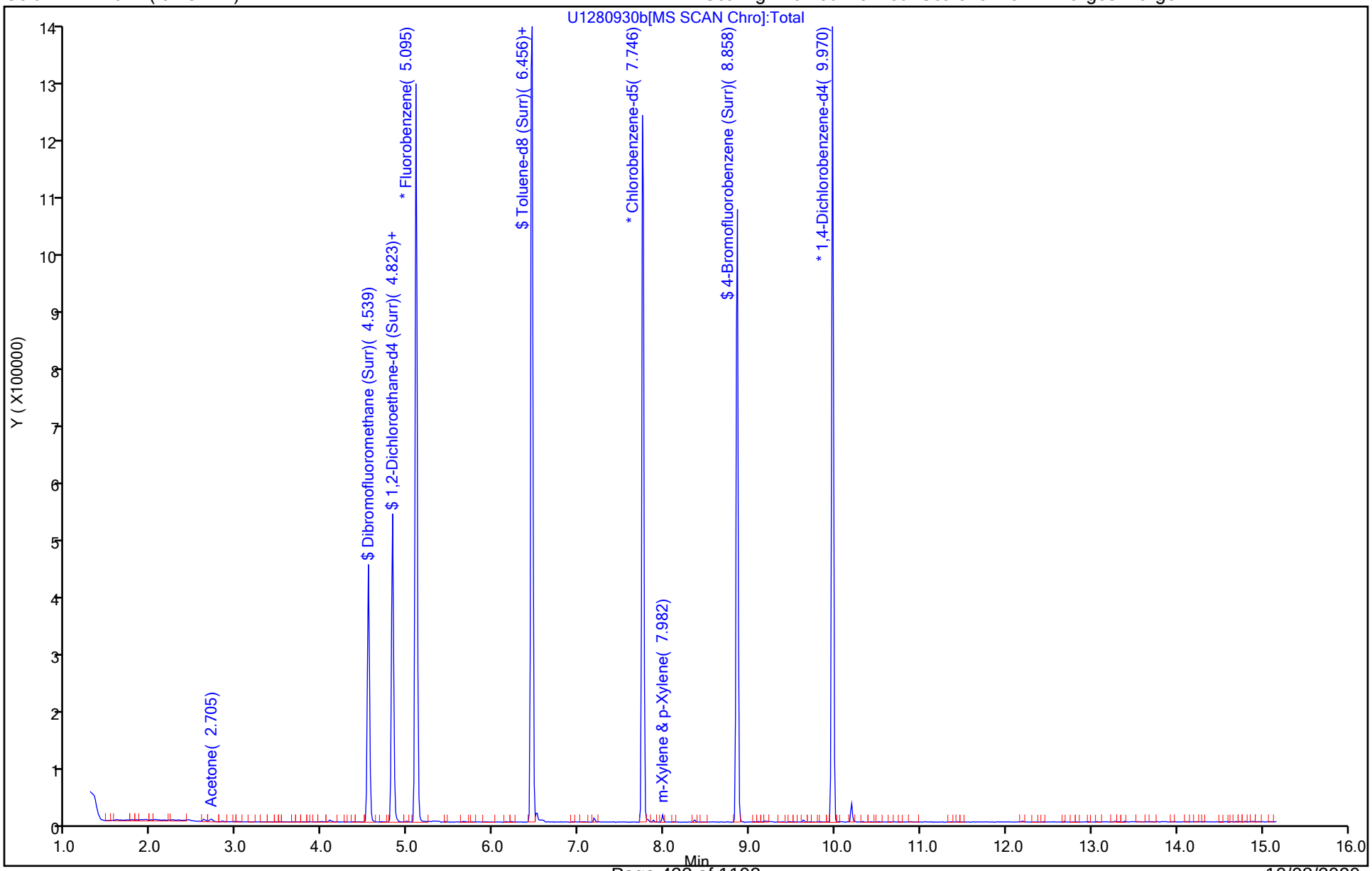
Report Date: 01-Oct-2020 14:05:31 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280930b.D

Injection Date:	01-Oct-2020 02:59:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-12	Lab Sample ID:	240-136984-12	Worklist Smp#:	31
Client ID:	MSA-SW40D-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280930b.D
Lims ID: 240-136984-B-12
Client ID: MSA-SW40D-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 02:59:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-031
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 14:05:31 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 14:05:31

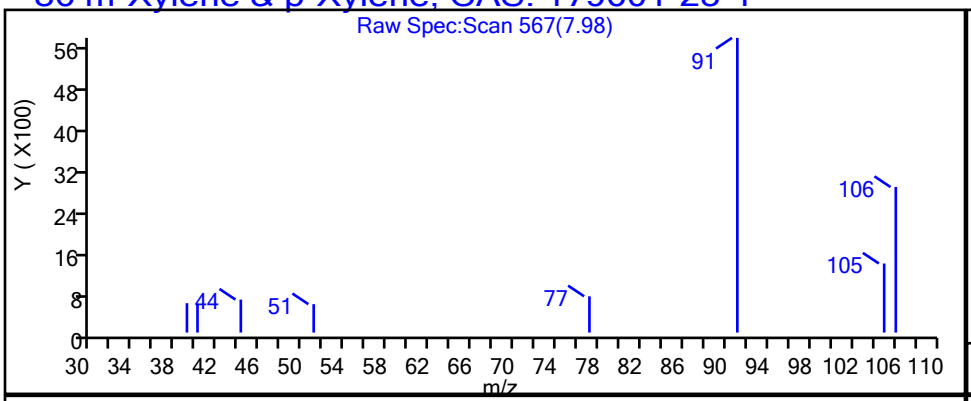
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.0	90.09
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.4	96.90
$ 6 Toluene-d8 (Surr)	20.0	20.8	104.14
$ 7 4-Bromofluorobenzene (Surr)	20.0	22.3	111.38

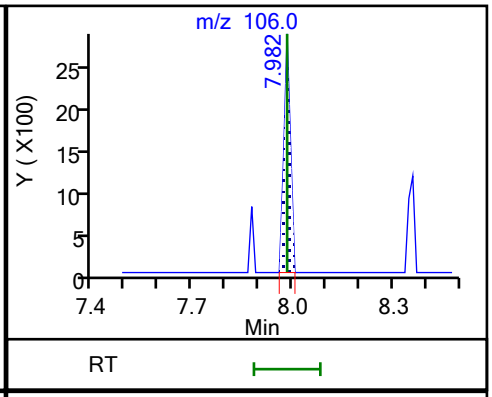
Report Date: 01-Oct-2020 14:05:31 Chrom Revision: 2.3 24-Sep-2020 19:22:38

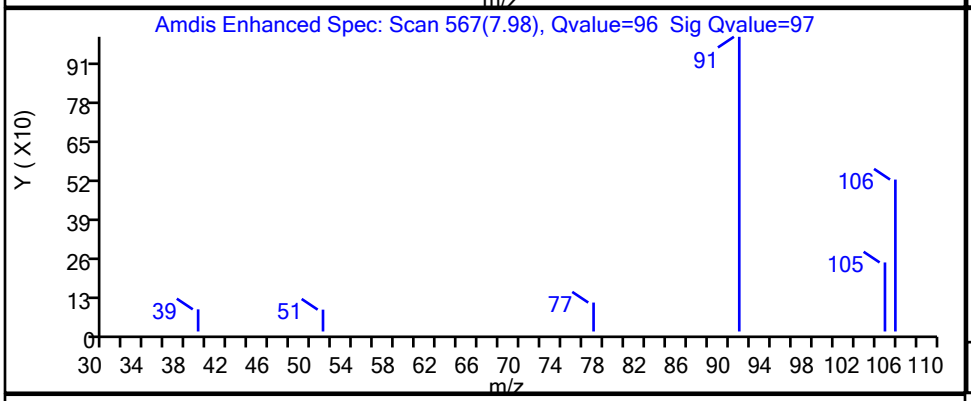
Eurofins TestAmerica, Canton

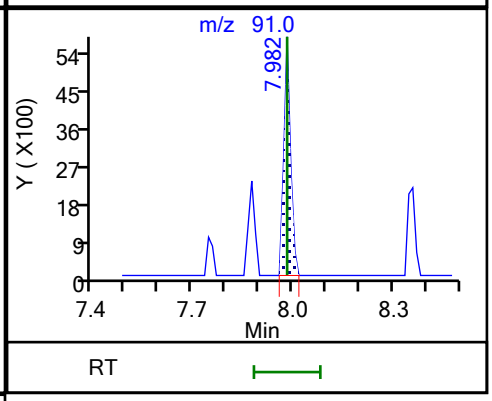
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280930b.D				
Injection Date:	01-Oct-2020 02:59:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-12	Lab Sample ID:	240-136984-12		
Client ID:	MSA-SW40D-092220				
Operator ID:	001904	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

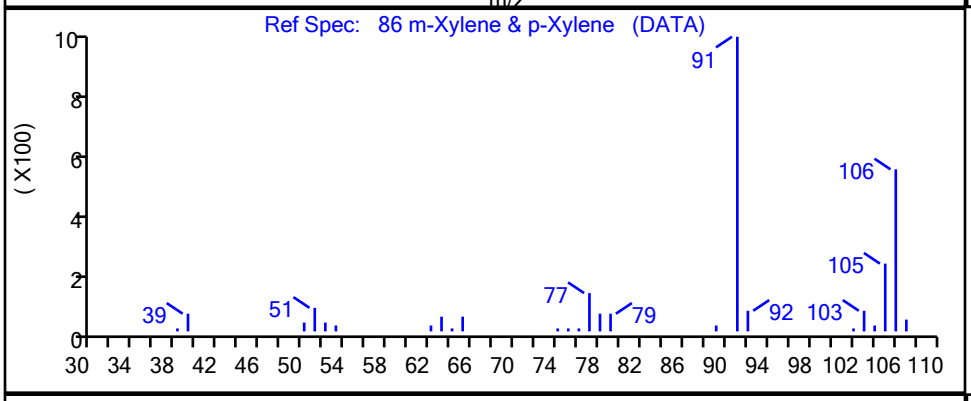
86 m-Xylene & p-Xylene, CAS: 179601-23-1

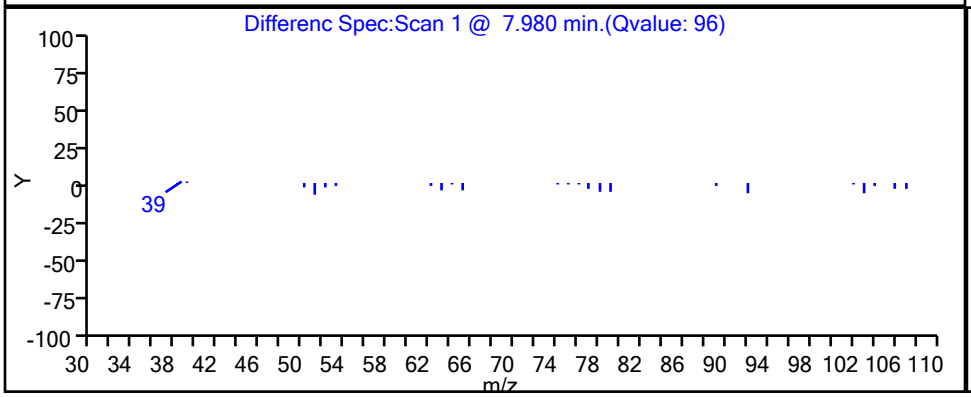


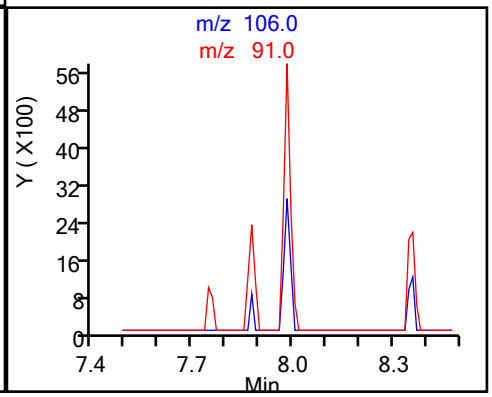








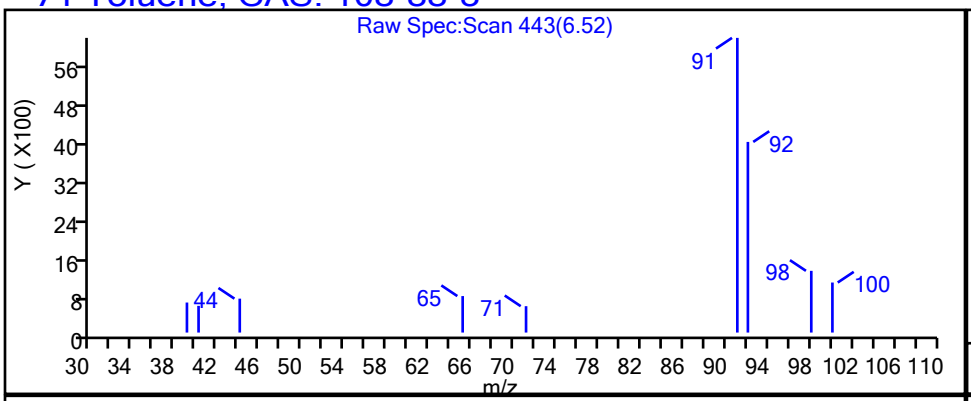


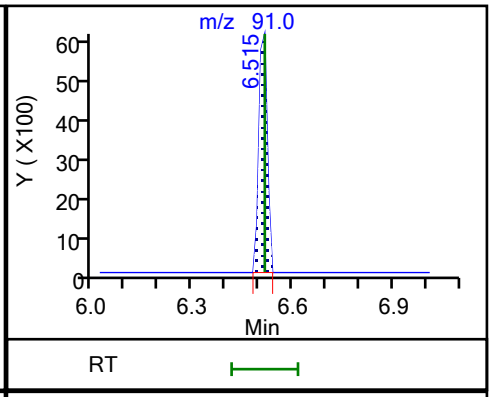


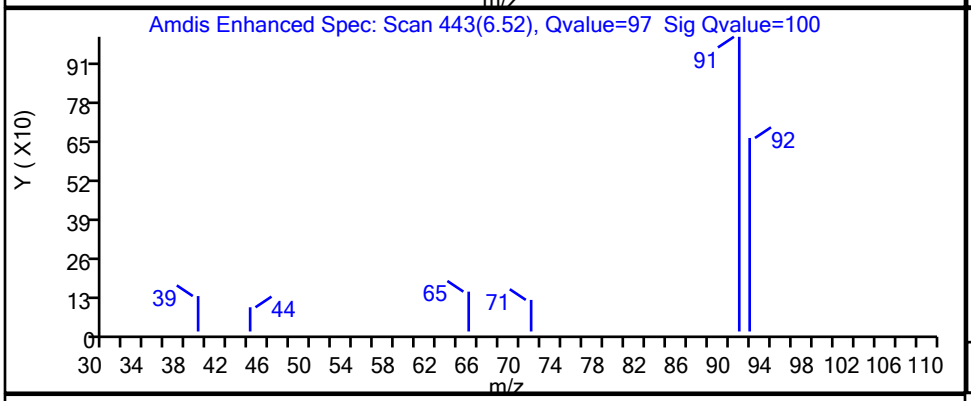
Eurofins TestAmerica, Canton

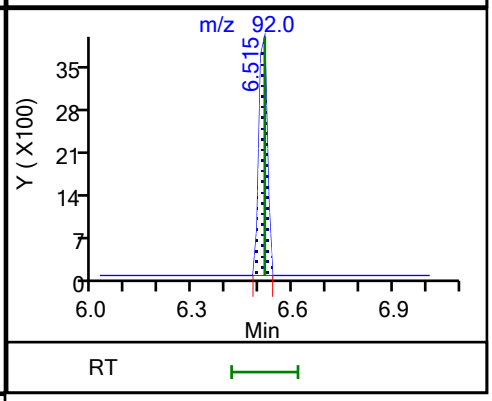
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280930b.D				
Injection Date:	01-Oct-2020 02:59:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-12	Lab Sample ID:	240-136984-12		
Client ID:	MSA-SW40D-092220				
Operator ID:	001904	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

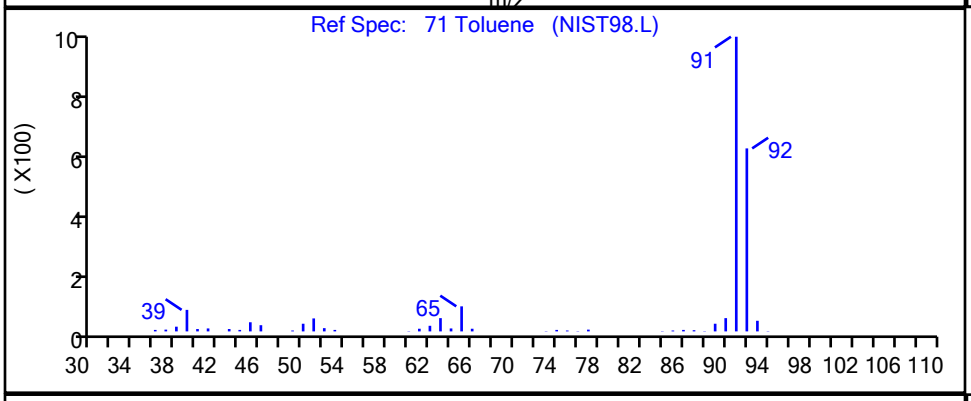
71 Toluene, CAS: 108-88-3

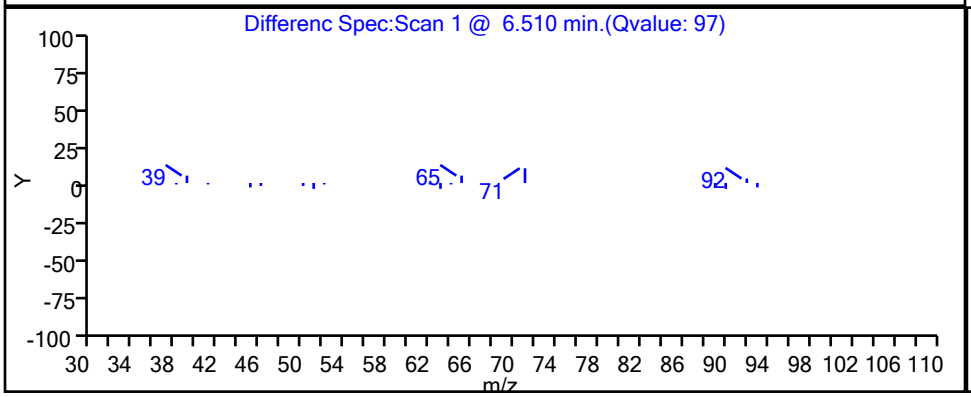


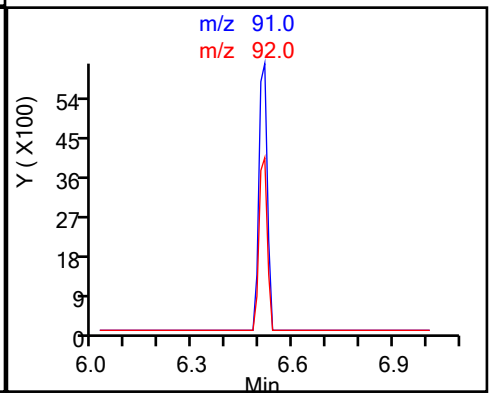












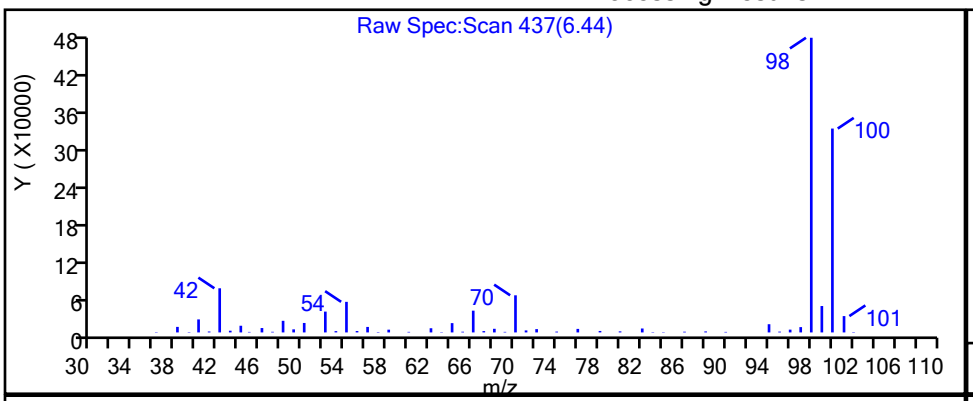
User Disabled Compound Report

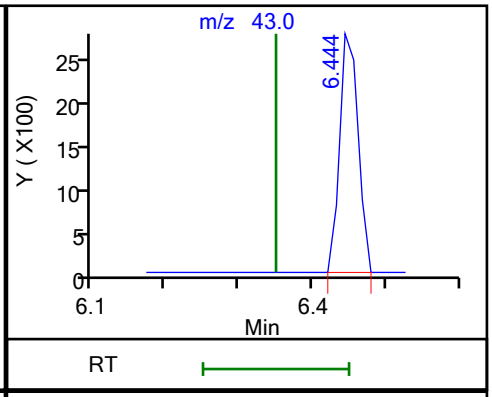
Eurofins TestAmerica, Canton

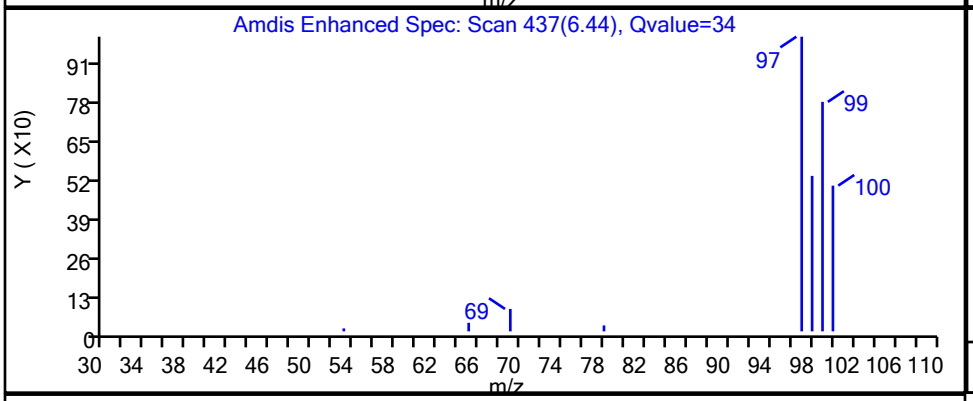
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280930b.D				
Injection Date:	01-Oct-2020 02:59:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-12	Lab Sample ID:	240-136984-12		
Client ID:	MSA-SW40D-092220				
Operator ID:	001904	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

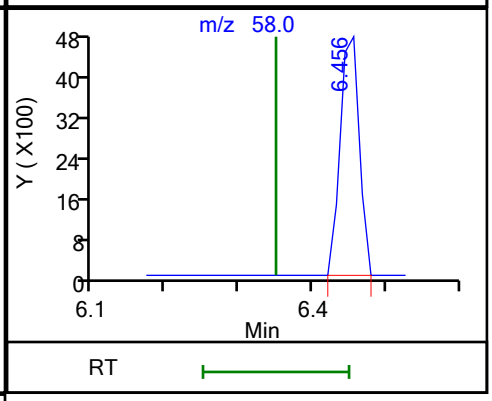
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

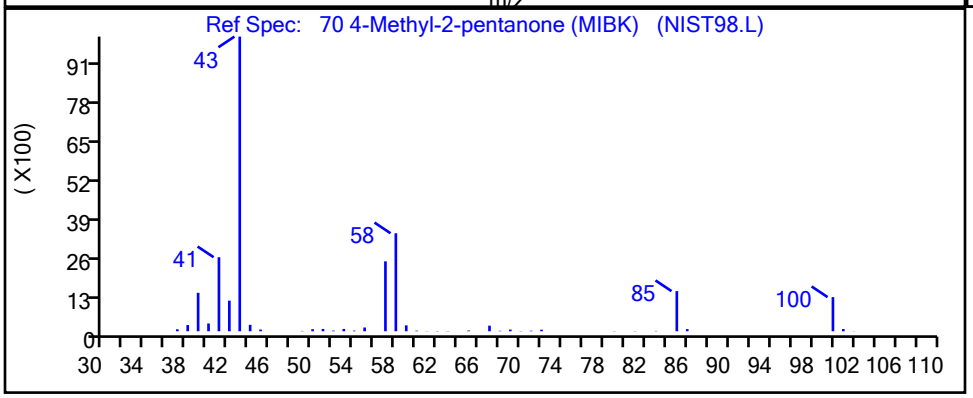
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4851	0.207515
6.46	58.00	8619	

Reviewer: laveyt, 01-Oct-2020 14:05:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	87		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	100		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41A-092220 Lab Sample ID: 240-136984-13

Matrix: Water Lab File ID: U1280931.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2020 03:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280931.D
Lims ID: 240-136984-B-13
Client ID: MSA-SW41A-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 03:22:30 ALS Bottle#: 31 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-032
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 13:47:51 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 13:48:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1098436	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	88	737964	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	385530	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	254113	17.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	333420	18.7	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	998545	20.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	95	353292	20.7	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.616				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		2.007				ND	
17 Trichlorofluoromethane	101		2.184				ND	
21 1,1-Dichloroethene	61		2.634				ND	
22 112TCTFE	101		2.681				ND	
23 Acetone	43	2.693	2.693	0.000	99	13839	1.98	
25 Carbon disulfide	76		2.823				ND	
29 Methylene Chloride	49		3.060				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.297				ND	
33 Methyl tert-butyl ether	73		3.297				ND	
35 1,1-Dichloroethane	63		3.652				ND	
36 Vinyl acetate	43		3.699				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
40 2,2-Dichloropropane	77		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.338				ND	
48 Chloroform	83		4.409				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
52 Carbon tetrachloride	117		4.693				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		4.693				ND	
54 Benzene	78		4.870				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.604				ND	
64 Dibromomethane	174		5.711				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	
71 Toluene	91		6.515				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.095				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.550				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		9.000				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.947				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

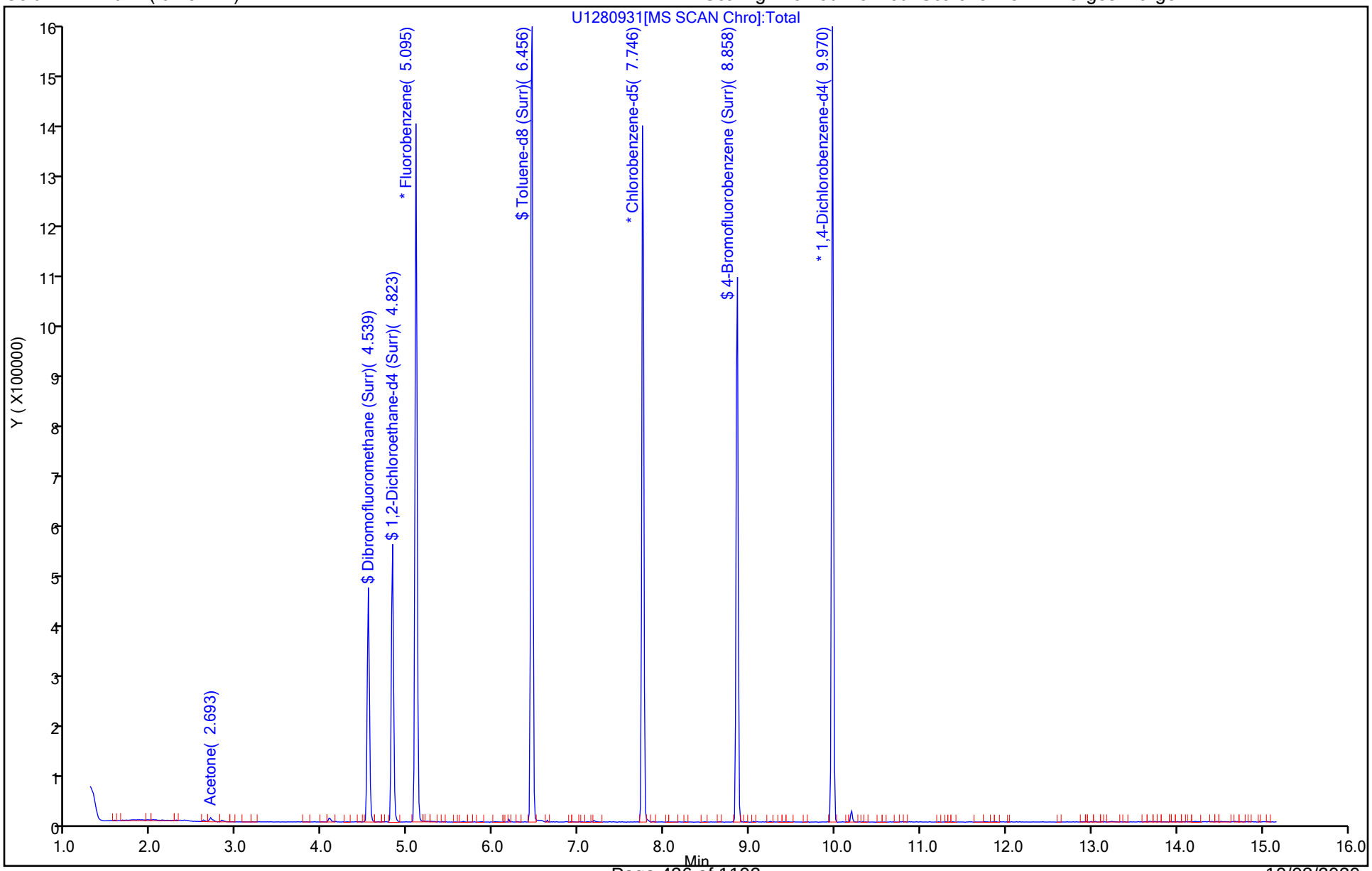
Report Date: 01-Oct-2020 13:48:57 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280931.D

Injection Date:	01-Oct-2020 03:22:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-13	Lab Sample ID:	240-136984-13	Worklist Smp#:	32
Client ID:	MSA-SW41A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280931.D
Lims ID: 240-136984-B-13
Client ID: MSA-SW41A-092220
Sample Type: Client
Inject. Date: 01-Oct-2020 03:22:30 ALS Bottle#: 31 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-032
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-Oct-2020 13:47:51 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: laveyt Date: 01-Oct-2020 13:48:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.4	87.15
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.7	93.43
$ 6 Toluene-d8 (Surr)	20.0	20.0	100.03
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.7	103.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	92		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41B-092220 Lab Sample ID: 240-136984-14

Matrix: Water Lab File ID: U1280882a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280882a.D
Lims ID: 240-136984-B-14
Client ID: MSA-SW41B-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 19:43:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-009
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:51:45 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:51:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1120628	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	753813	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	393521	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	272471	18.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	349122	19.2	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1046206	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	378314	21.7	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.681	2.681	0.000	98	7136	1.00	
25 Carbon disulfide	76		2.812				ND	7
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

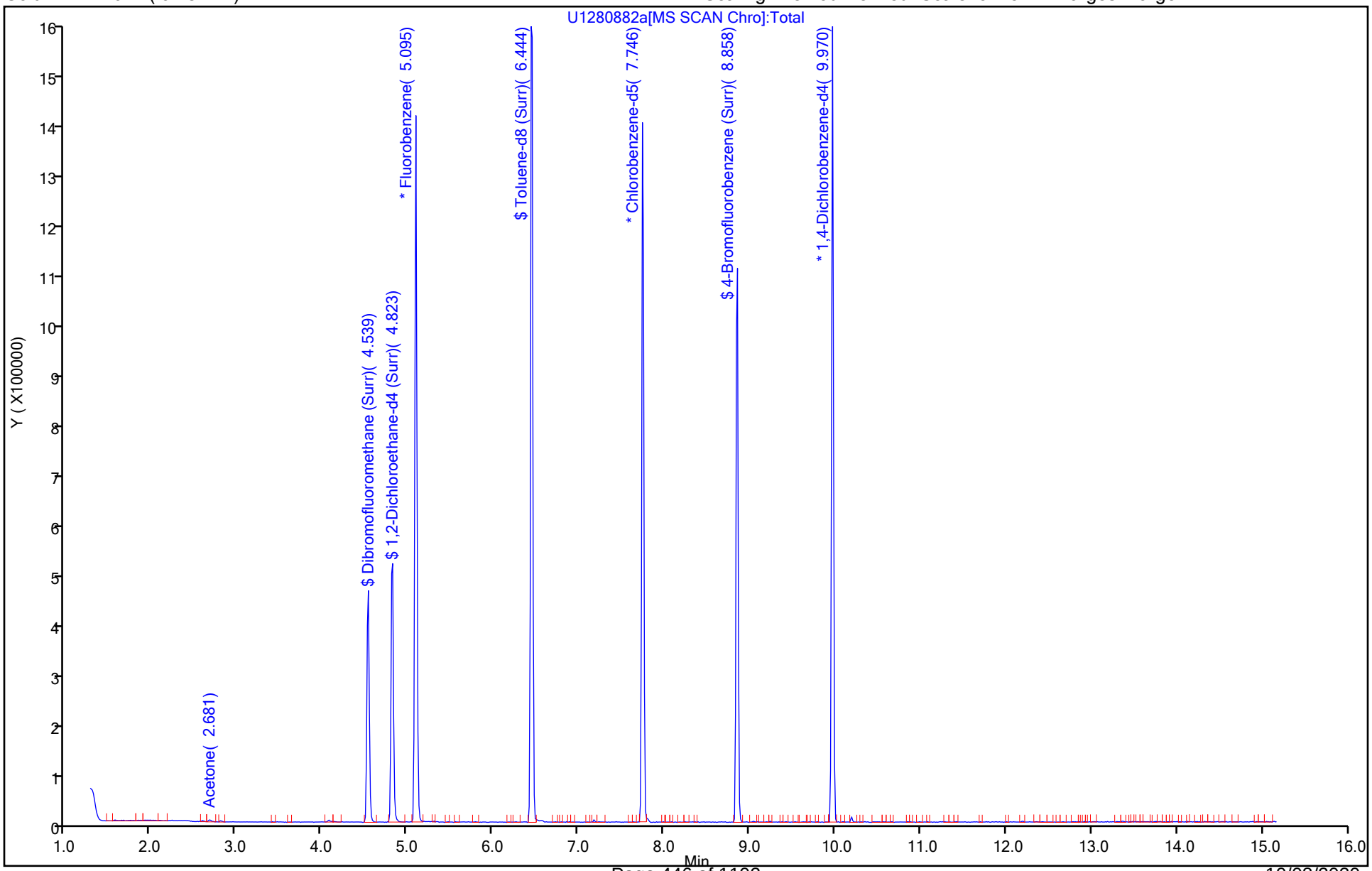
Report Date: 30-Sep-2020 13:51:46 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280882a.D

Injection Date:	29-Sep-2020 19:43:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-14	Lab Sample ID:	240-136984-14	Worklist Smp#:	9
Client ID:	MSA-SW41B-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280882a.D
Lims ID: 240-136984-B-14
Client ID: MSA-SW41B-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 19:43:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-009
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:51:45 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:51:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.3	91.59
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.2	95.89
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.60
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.7	108.36

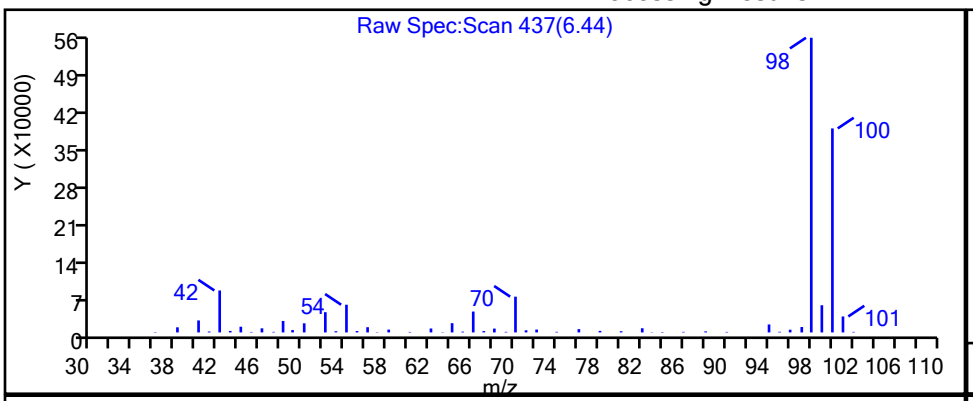
User Disabled Compound Report

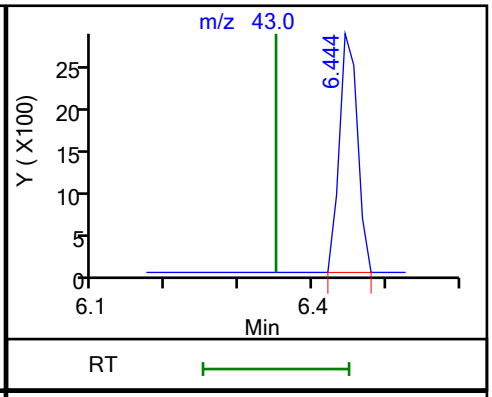
Eurofins TestAmerica, Canton

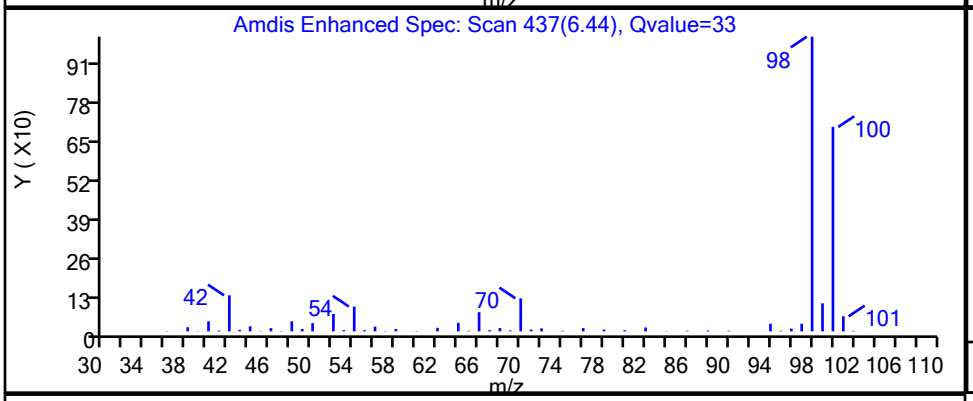
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280882a.D				
Injection Date:	29-Sep-2020 19:43:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-14	Lab Sample ID:	240-136984-14		
Client ID:	MSA-SW41B-092220				
Operator ID:	001904	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

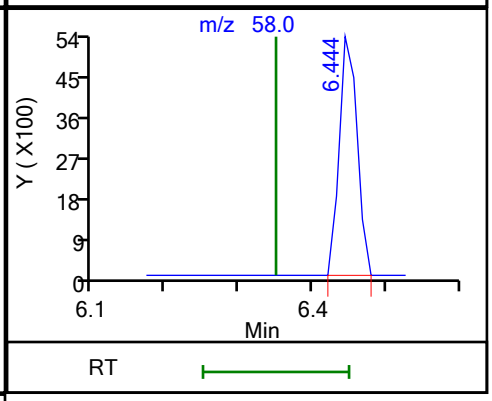
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

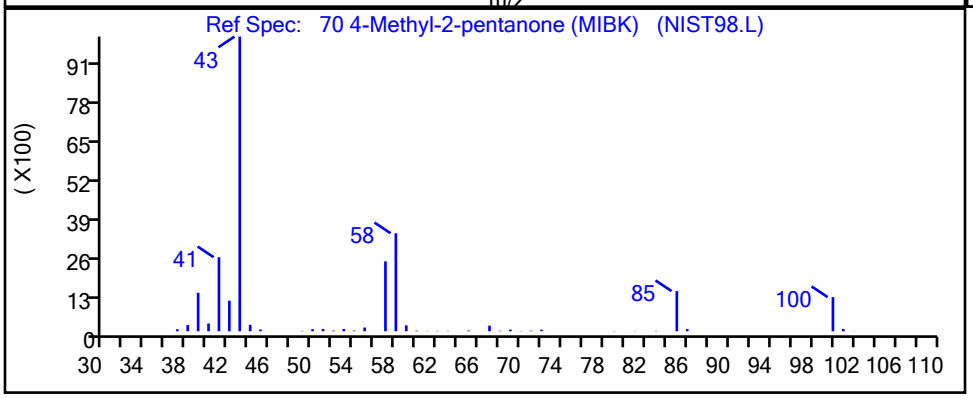
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4832	0.198655
6.44	58.00	9108	

Reviewer: laveyt, 30-Sep-2020 13:51:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	87		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41C-092220 Lab Sample ID: 240-136984-15

Matrix: Water Lab File ID: U1280883.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:22

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280883.D
Lims ID: 240-136984-B-15
Client ID: MSA-SW41C-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 20:06:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-010
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:52:12 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:52:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1123185	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	774174	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.001	95	406468	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	258635	17.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	95	333277	18.3	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1020640	19.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	356686	19.9	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	94	6355	0.8888	
25 Carbon disulfide	76		2.812				ND	7
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	7
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

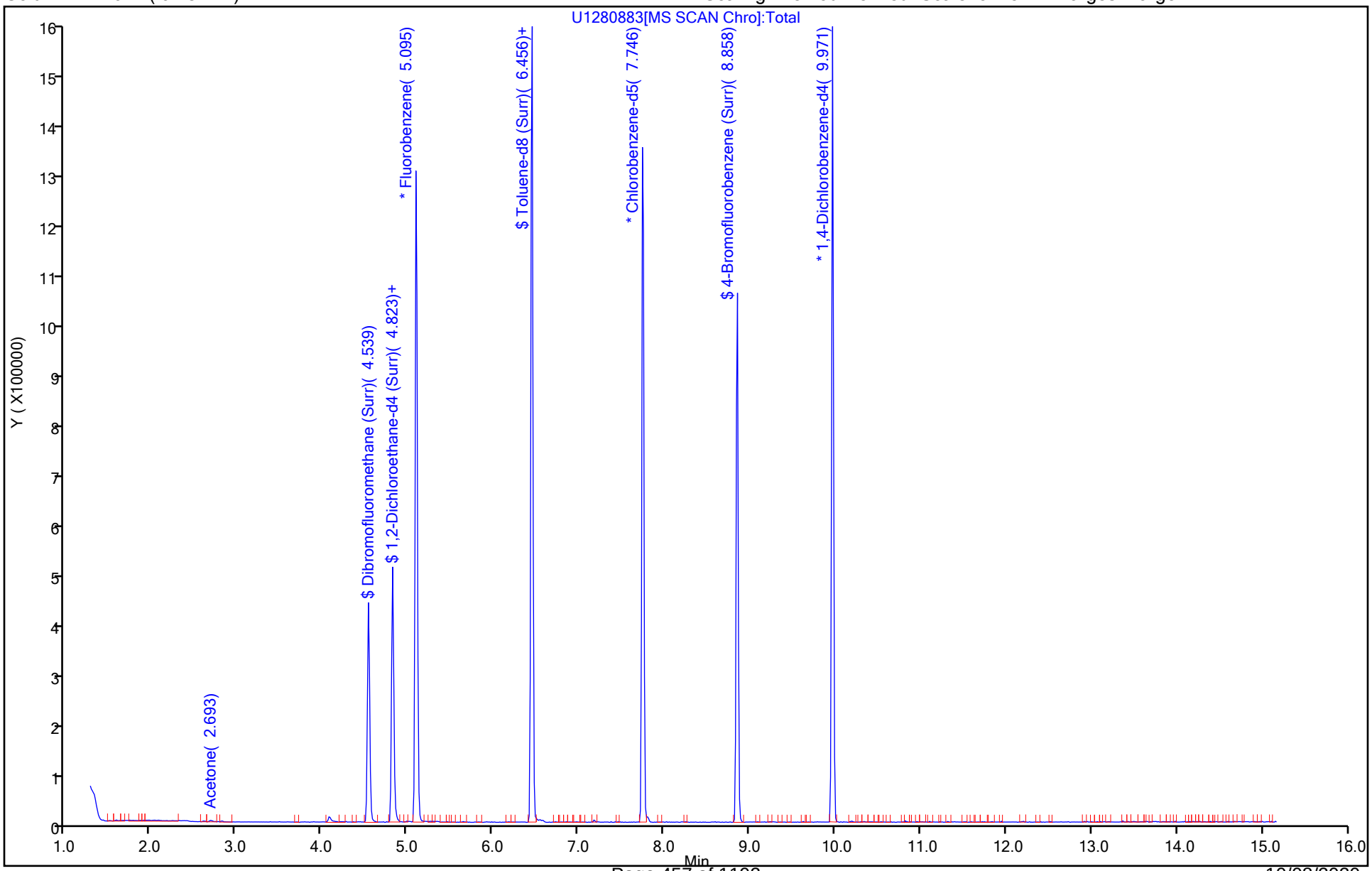
Report Date: 30-Sep-2020 13:52:12 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280883.D

Injection Date:	29-Sep-2020 20:06:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-15	Lab Sample ID:	240-136984-15	Worklist Smp#:	10
Client ID:	MSA-SW41C-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280883.D
Lims ID: 240-136984-B-15
Client ID: MSA-SW41C-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 20:06:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-010
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:52:12 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:52:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.3	86.74
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.3	91.33
$ 6 Toluene-d8 (Surr)	20.0	19.5	97.46
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.9	99.48

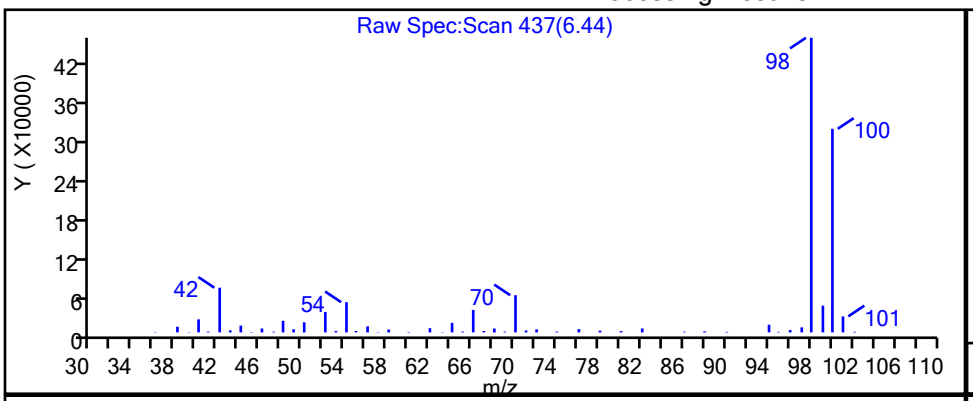
User Disabled Compound Report

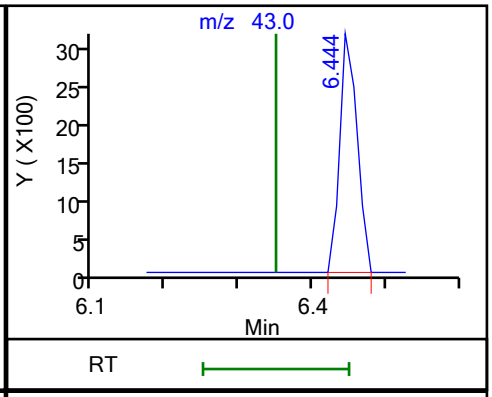
Eurofins TestAmerica, Canton

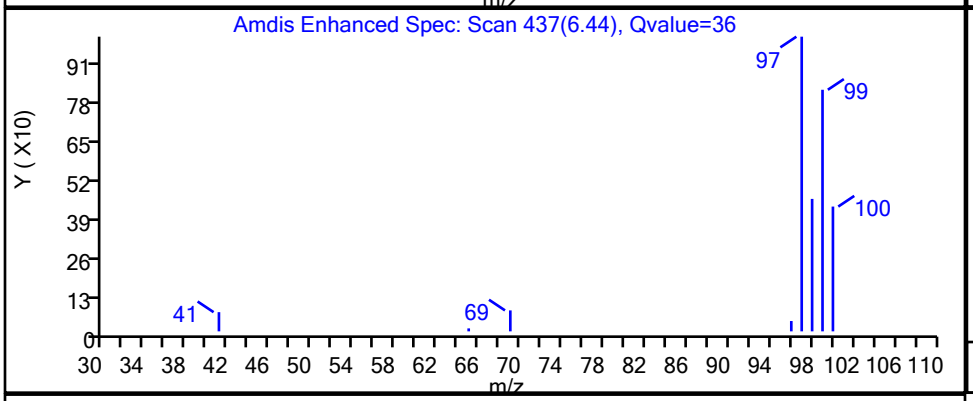
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280883.D				
Injection Date:	29-Sep-2020 20:06:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-15	Lab Sample ID:	240-136984-15		
Client ID:	MSA-SW41C-092220				
Operator ID:	001904	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

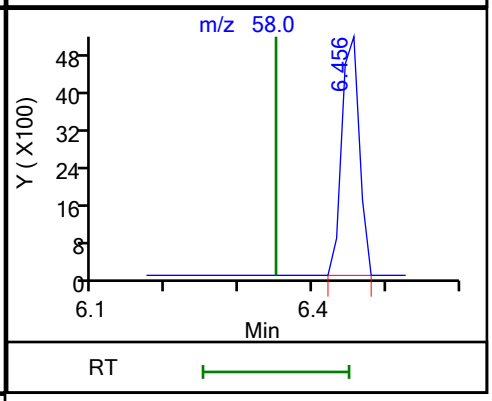
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

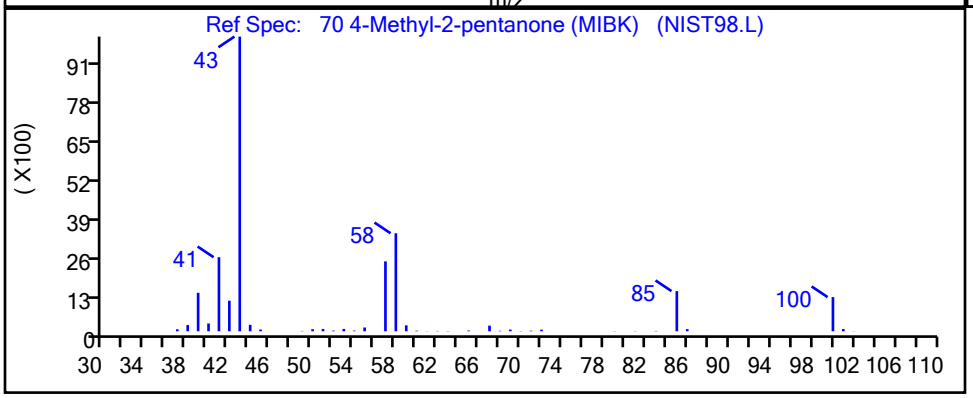
Processing Results











RT	Mass	Response	Amount
6.44	43.00	5248	0.215267
6.46	58.00	8645	

Reviewer: laveyt, 30-Sep-2020 13:52:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW41D-092220 Lab Sample ID: 240-136984-16

Matrix: Water Lab File ID: U1280884a.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280884a.D
Lims ID: 240-136984-B-16
Client ID: MSA-SW41D-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 20:29:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-011
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:52:46 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:52:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1146946	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.746	0.012	87	756745	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	392659	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	267294	17.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	344368	18.5	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1034138	20.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	364388	20.8	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	99	6453	0.8838	
25 Carbon disulfide	76		2.812				ND	7
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

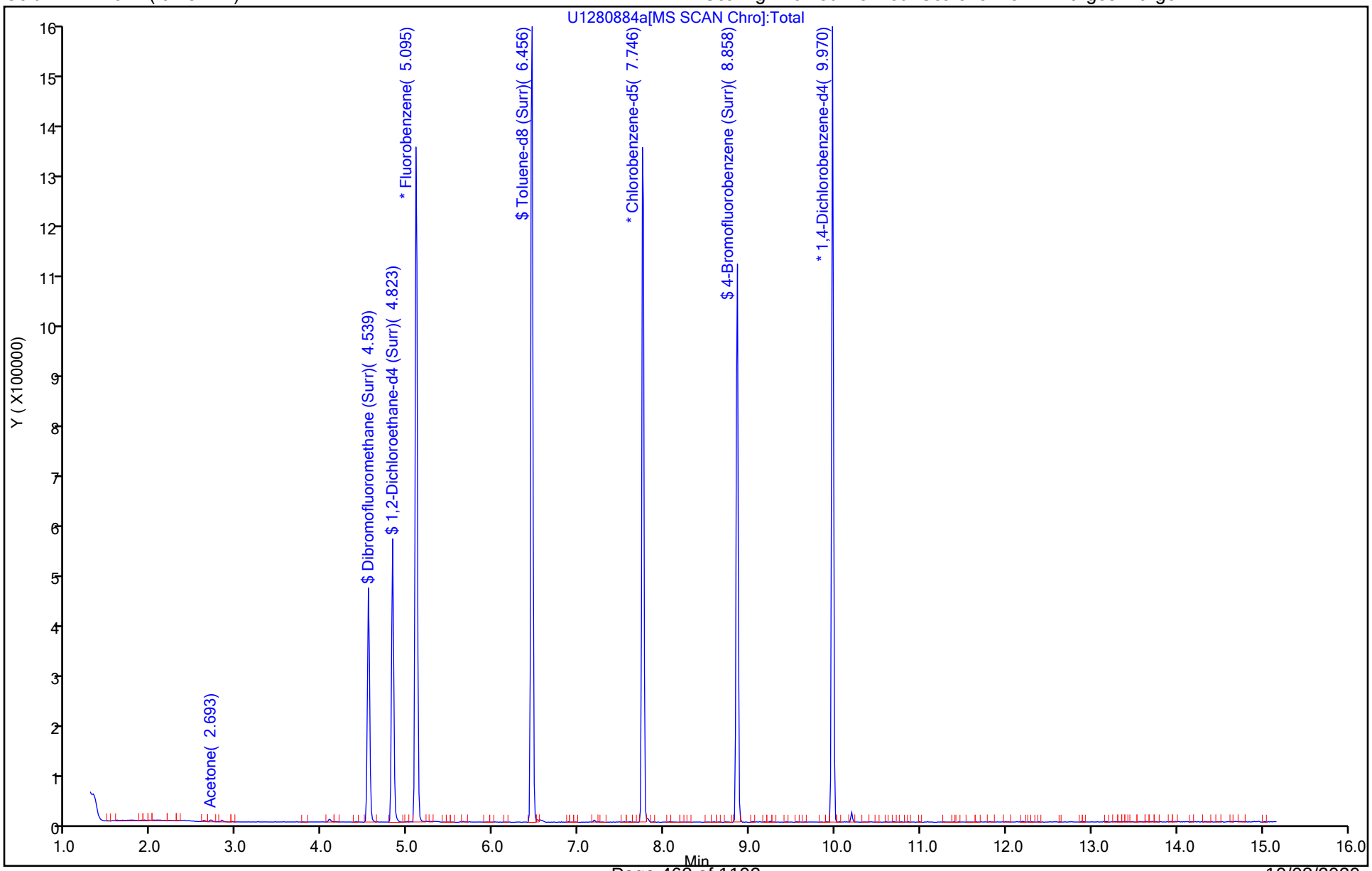
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

Report Date: 30-Sep-2020 13:52:46 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280884a.D				
Injection Date:	29-Sep-2020 20:29:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-16	Lab Sample ID:	240-136984-16	Worklist Smp#:	11
Client ID:	MSA-SW41D-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280884a.D
Lims ID: 240-136984-B-16
Client ID: MSA-SW41D-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 20:29:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-011
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:52:46 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:52:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.6	87.79
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.5	92.42
$ 6 Toluene-d8 (Surr)	20.0	20.2	101.02
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.8	103.96

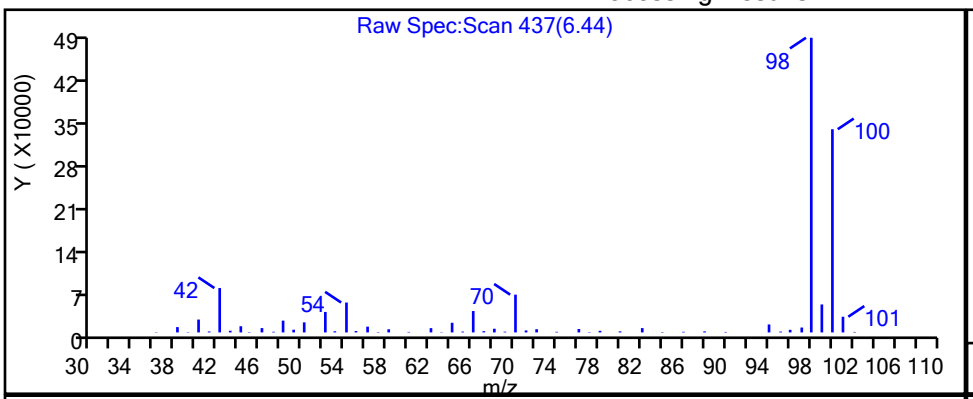
User Disabled Compound Report

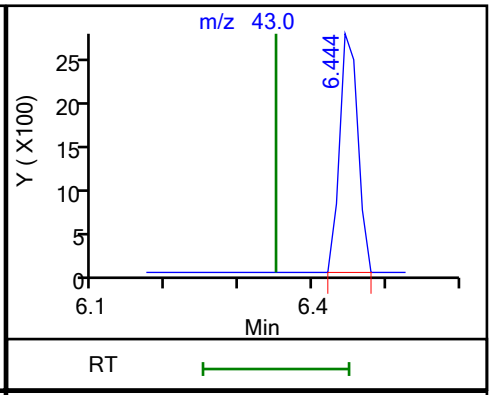
Eurofins TestAmerica, Canton

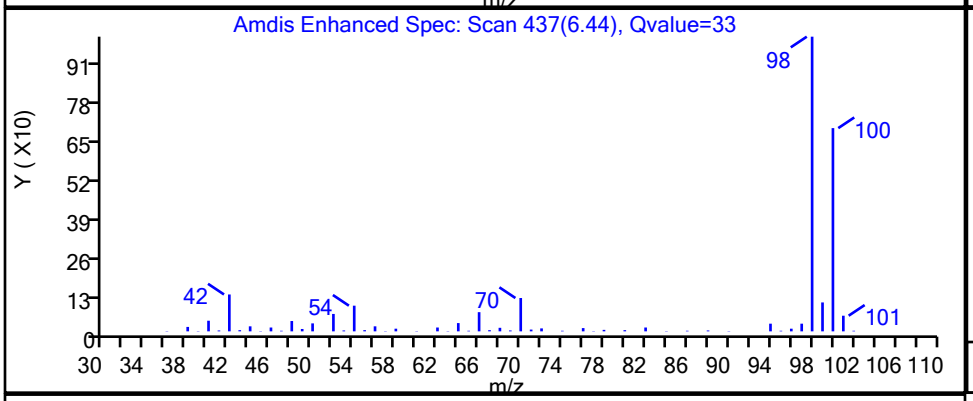
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280884a.D				
Injection Date:	29-Sep-2020 20:29:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-16	Lab Sample ID:	240-136984-16		
Client ID:	MSA-SW41D-092220				
Operator ID:	001904	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

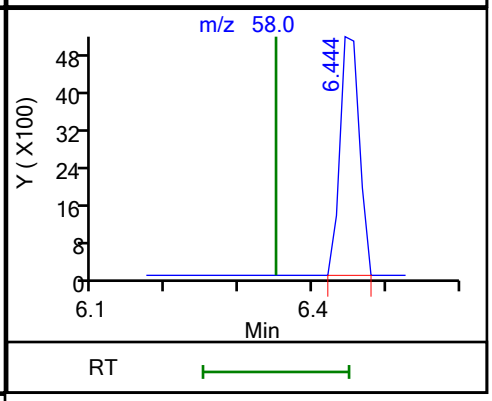
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

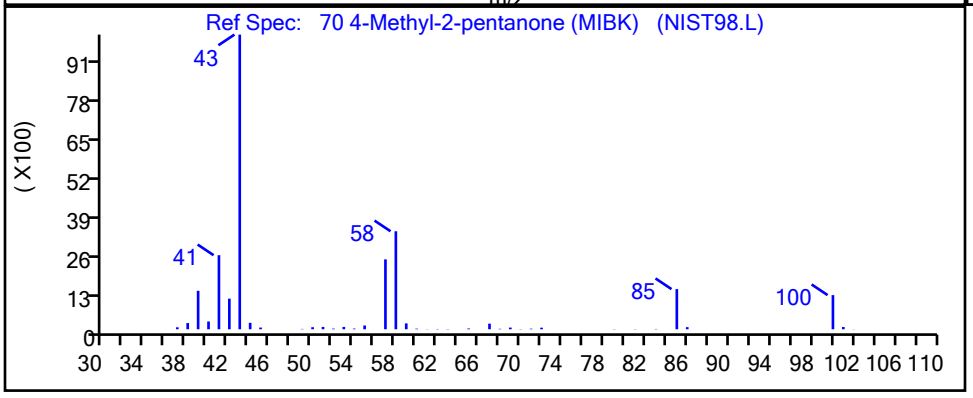
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4722	0.189678
6.44	58.00	9558	

Reviewer: laveyt, 30-Sep-2020 13:52:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42A-092220 Lab Sample ID: 240-136984-17

Matrix: Water Lab File ID: U1280885.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:18

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280885.D
Lims ID: 240-136984-B-17
Client ID: MSA-SW42A-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 20:51:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-012
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:53:06 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:53:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1128555	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	746701	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.000	95	386284	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	263098	17.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	344737	18.8	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1044786	20.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	378740	21.9	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	97	9155	1.27	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

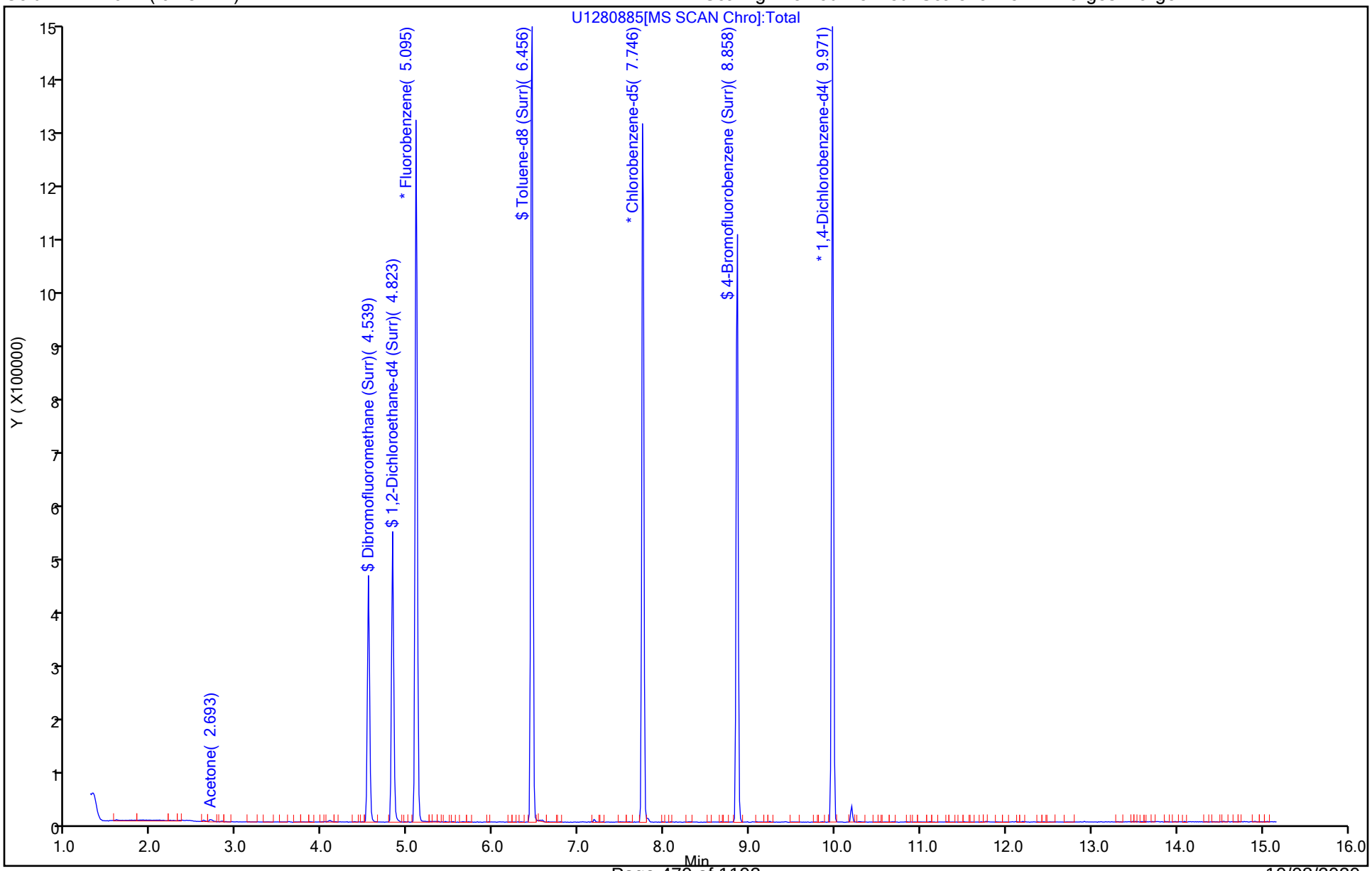
Report Date: 30-Sep-2020 13:53:06 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280885.D

Injection Date:	29-Sep-2020 20:51:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-17	Lab Sample ID:	240-136984-17	Worklist Smp#:	12
Client ID:	MSA-SW42A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280885.D				
Lims ID:	240-136984-B-17				
Client ID:	MSA-SW42A-092220				
Sample Type:	Client				
Inject. Date:	29-Sep-2020 20:51:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102415-012				
Operator ID:	001904	Instrument ID:	A3UX12		
Method:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	30-Sep-2020 13:53:06	Calib Date:	16-Jul-2020 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1621				

First Level Reviewer: laveyt Date: 30-Sep-2020 13:53:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.6	87.82
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.8	94.02
$ 6 Toluene-d8 (Surr)	20.0	20.7	103.43
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.9	109.51

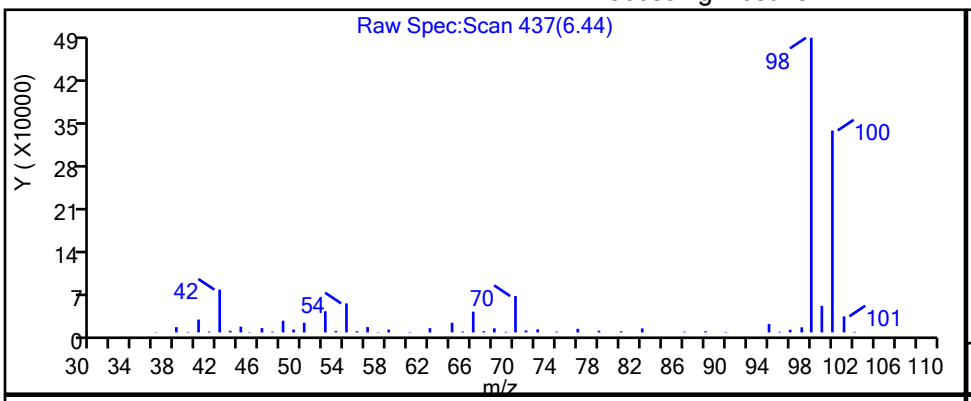
User Disabled Compound Report

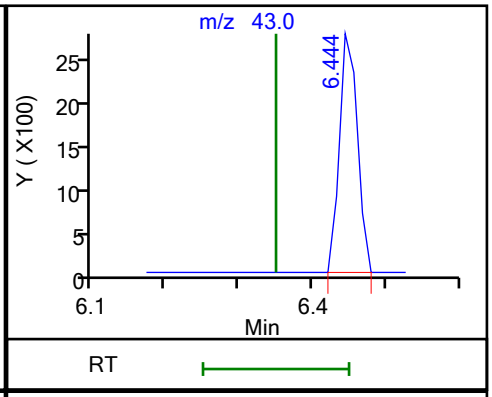
Eurofins TestAmerica, Canton

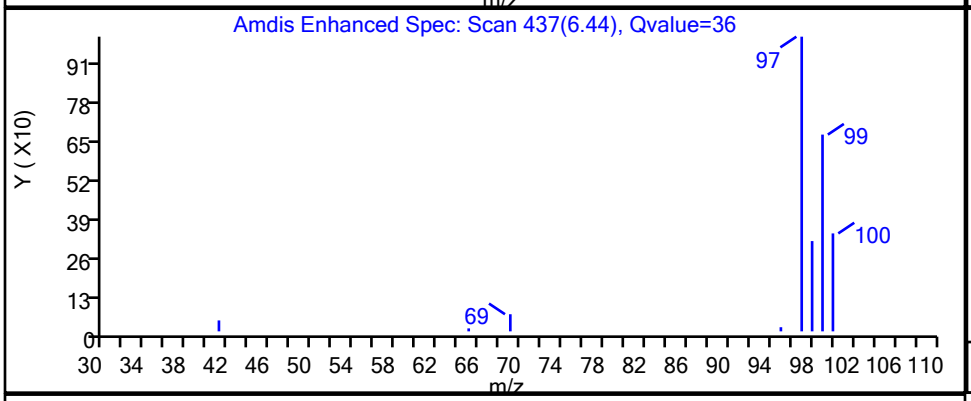
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280885.D				
Injection Date:	29-Sep-2020 20:51:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-17	Lab Sample ID:	240-136984-17		
Client ID:	MSA-SW42A-092220				
Operator ID:	001904	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

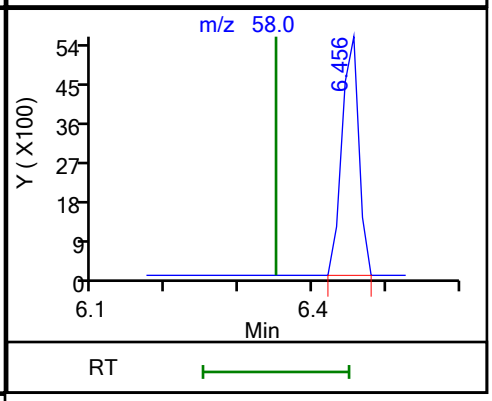
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

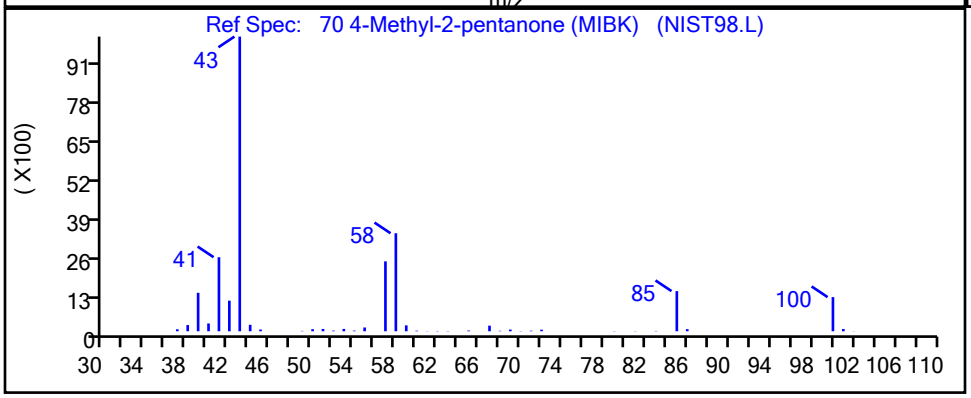
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4621	0.188646
6.46	58.00	8947	

Reviewer: laveyt, 30-Sep-2020 13:52:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42B-092220 Lab Sample ID: 240-136984-18

Matrix: Water Lab File ID: U1280886.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:21

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280886.D
Lims ID: 240-136984-B-18
Client ID: MSA-SW42B-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 21:14:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-013
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:53:28 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:53:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1106915	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	731377	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.001	95	371861	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	266608	18.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	345279	19.2	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1030827	20.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	370045	21.8	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	97	6822	0.9681	
25 Carbon disulfide	76		2.812				ND	7
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

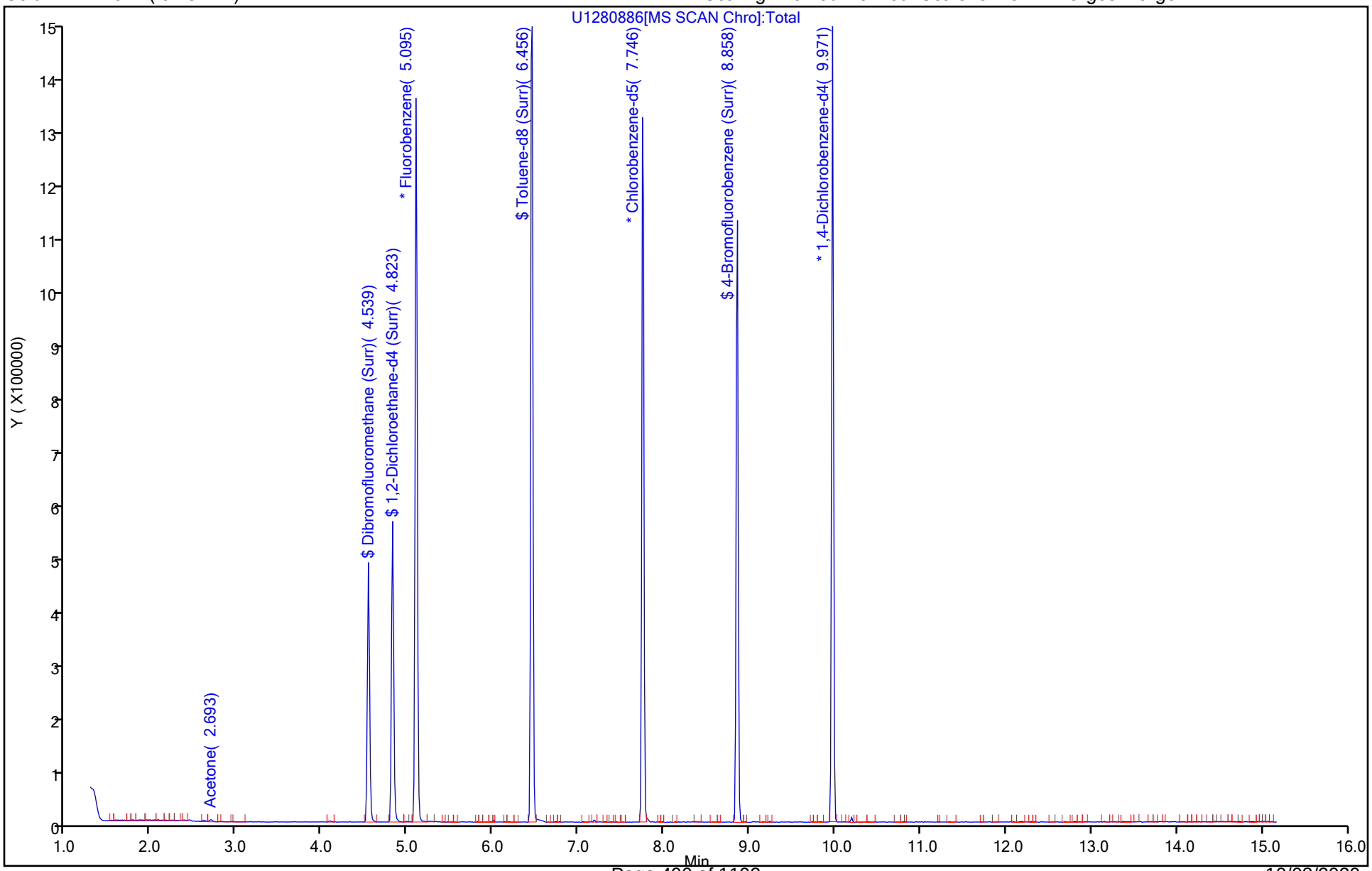
Report Date: 30-Sep-2020 13:53:28 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280886.D

Injection Date:	29-Sep-2020 21:14:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-18	Lab Sample ID:	240-136984-18	Worklist Smp#:	13
Client ID:	MSA-SW42B-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280886.D
Lims ID: 240-136984-B-18
Client ID: MSA-SW42B-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 21:14:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-013
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:53:28 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:53:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.1	90.73
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.2	96.01
$ 6 Toluene-d8 (Surr)	20.0	20.8	104.19
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.8	109.24

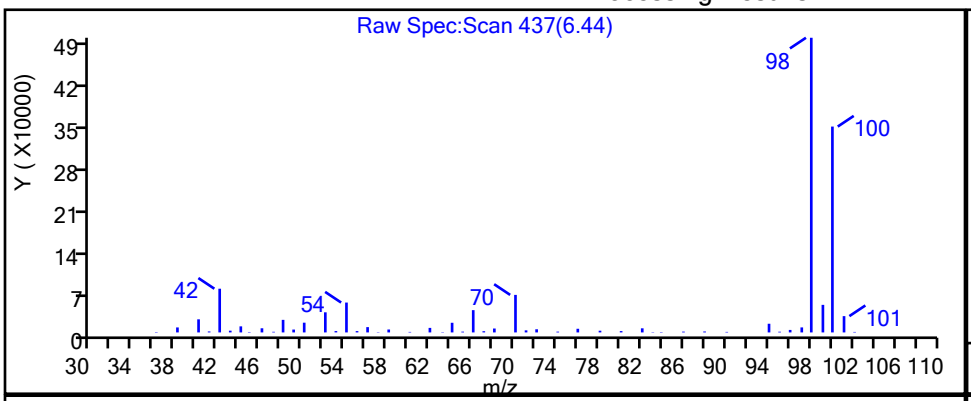
User Disabled Compound Report

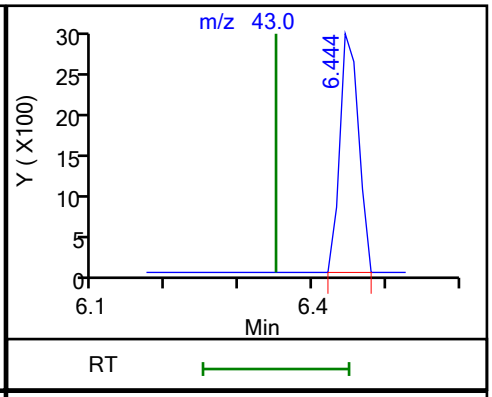
Eurofins TestAmerica, Canton

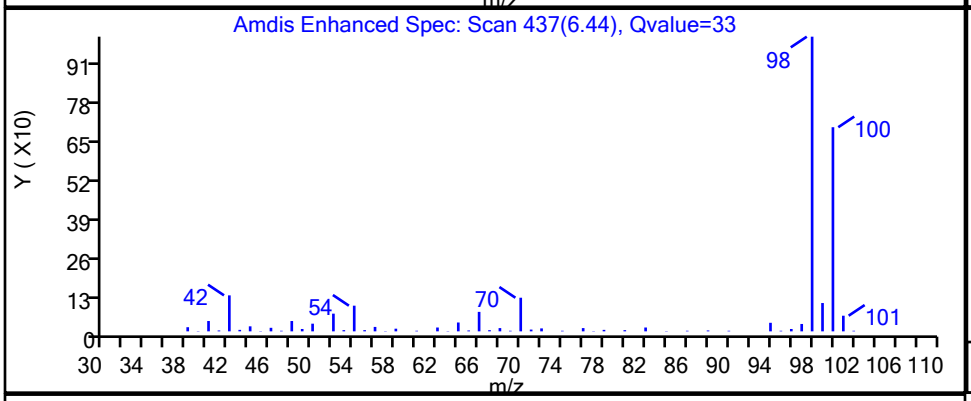
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280886.D				
Injection Date:	29-Sep-2020 21:14:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-18	Lab Sample ID:	240-136984-18		
Client ID:	MSA-SW42B-092220				
Operator ID:	001904	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

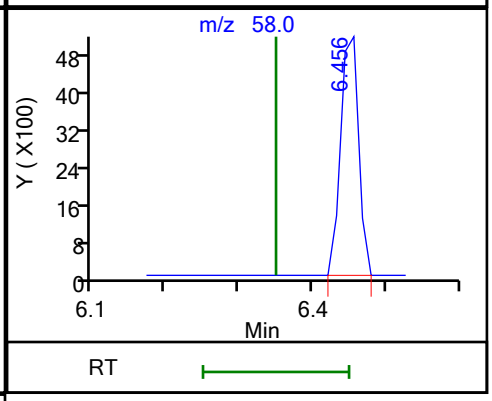
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

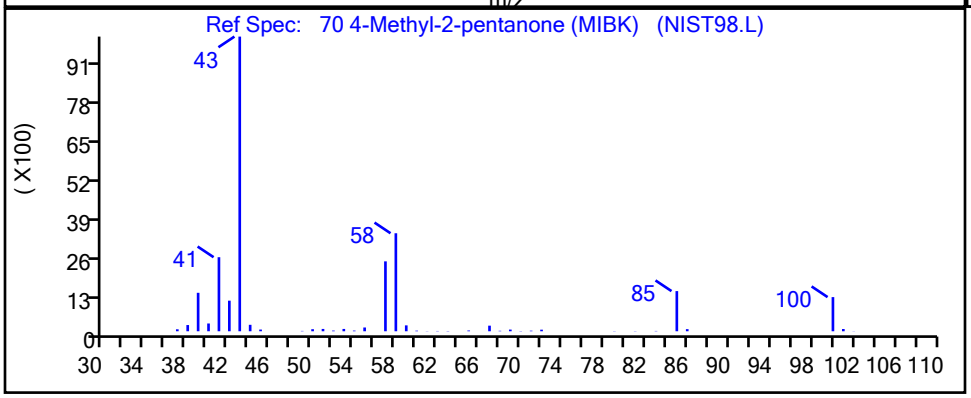
Processing Results











RT	Mass	Response	Amount
6.44	43.00	5194	0.216184
6.46	58.00	8926	

Reviewer: laveyt, 30-Sep-2020 13:53:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		47-134
1868-53-7	Dibromofluoromethane (Surr)	92		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42C-092220 Lab Sample ID: 240-136984-19

Matrix: Water Lab File ID: U1280887.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280887.D
Lims ID: 240-136984-B-19
Client ID: MSA-SW42C-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 21:36:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-014
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:53:46 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:53:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1086888	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.746	0.012	86	727159	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	373413	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	266807	18.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	345333	19.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1025213	20.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	367669	21.8	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	98	12522	1.81	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

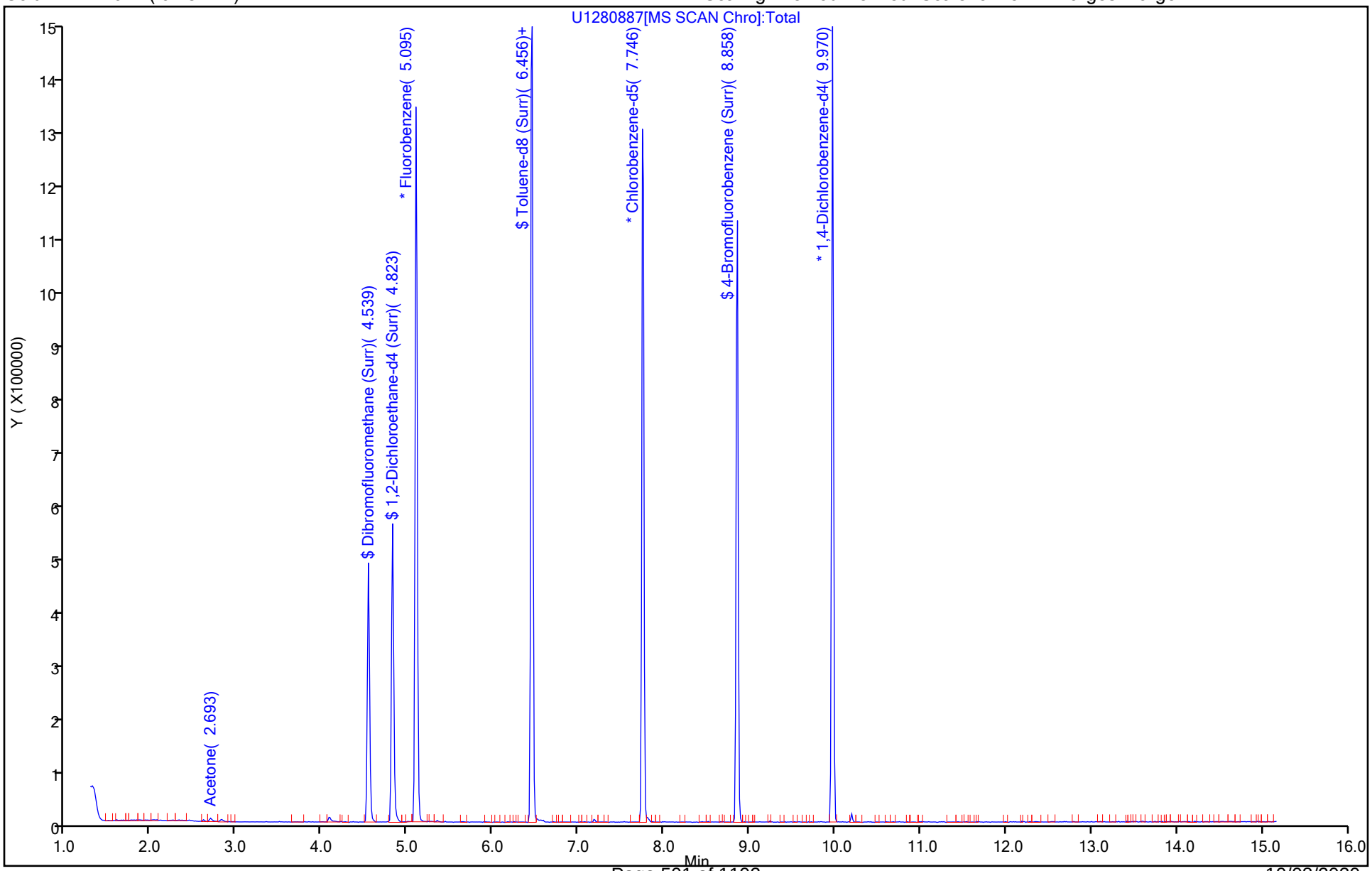
Report Date: 30-Sep-2020 13:53:46 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280887.D

Injection Date:	29-Sep-2020 21:36:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-19	Lab Sample ID:	240-136984-19	Worklist Smp#:	14
Client ID:	MSA-SW42C-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280887.D				
Lims ID:	240-136984-B-19				
Client ID:	MSA-SW42C-092220				
Sample Type:	Client				
Inject. Date:	29-Sep-2020 21:36:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102415-014				
Operator ID:	001904	Instrument ID:	A3UX12		
Method:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	30-Sep-2020 13:53:46	Calib Date:	16-Jul-2020 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1621				

First Level Reviewer: laveyt Date: 30-Sep-2020 13:53:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.5	92.47
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.6	97.79
$ 6 Toluene-d8 (Surr)	20.0	20.8	104.22
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.8	109.17

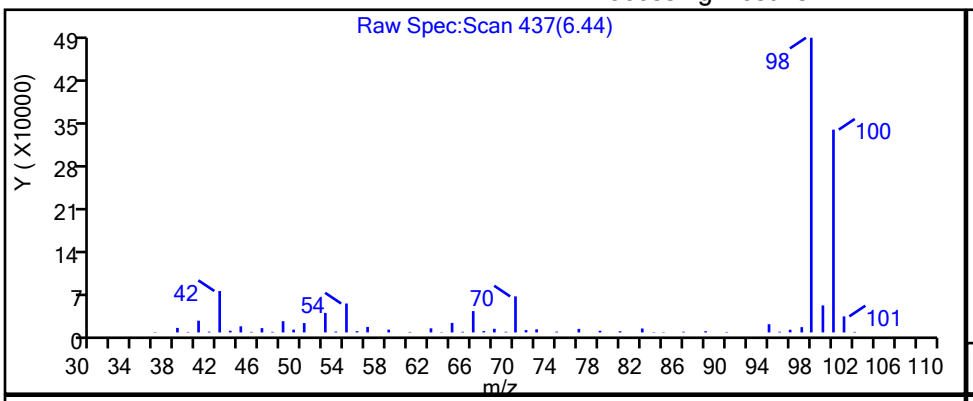
User Disabled Compound Report

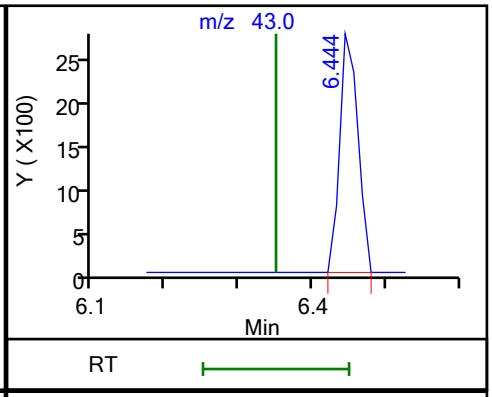
Eurofins TestAmerica, Canton

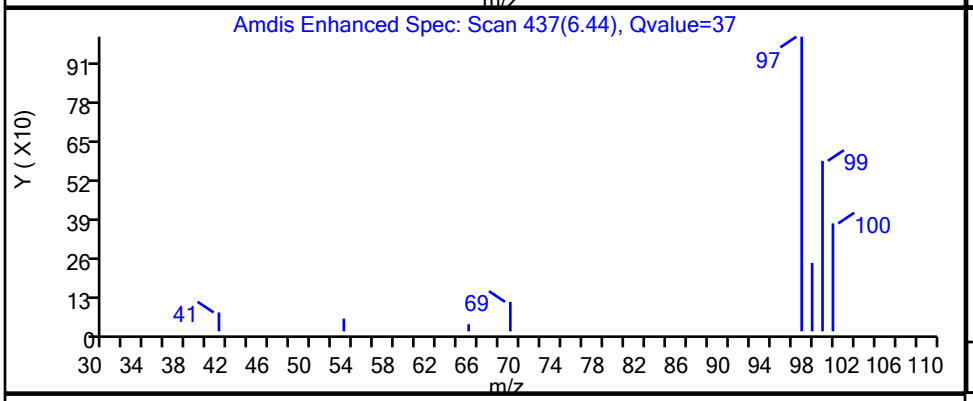
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280887.D				
Injection Date:	29-Sep-2020 21:36:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-19	Lab Sample ID:	240-136984-19		
Client ID:	MSA-SW42C-092220				
Operator ID:	001904	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

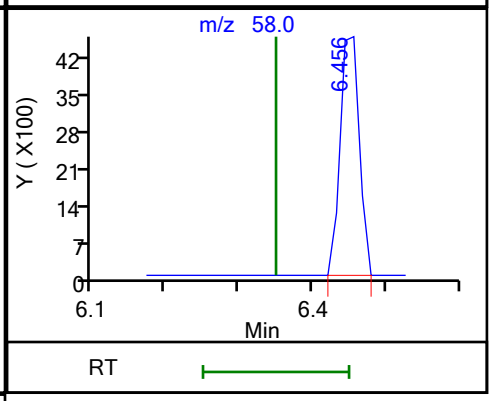
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

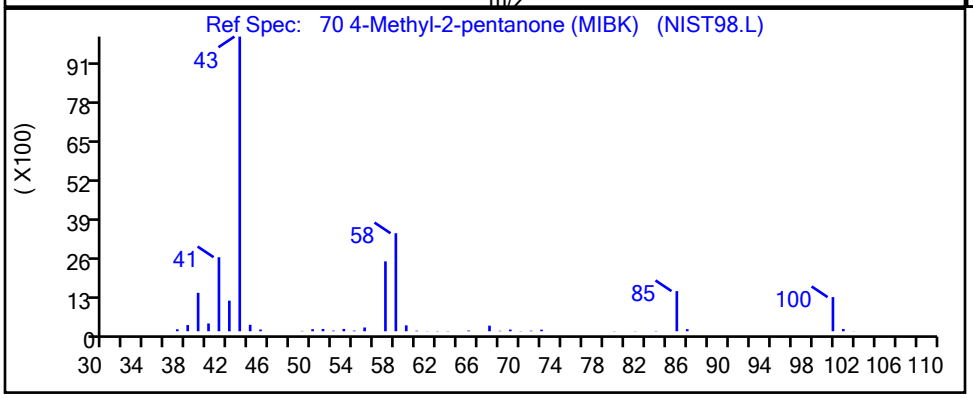
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4790	0.203042
6.46	58.00	8369	

Reviewer: laveyt, 30-Sep-2020 13:53:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW42D-092220 Lab Sample ID: 240-136984-20

Matrix: Water Lab File ID: U1280888a.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280888a.D
Lims ID: 240-136984-B-20
Client ID: MSA-SW42D-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 21:58:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-015
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:54:05 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:54:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1115919	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	748778	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	96	385751	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	268544	18.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	343717	19.0	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1023535	20.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	365707	21.1	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	96	7812	1.10	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

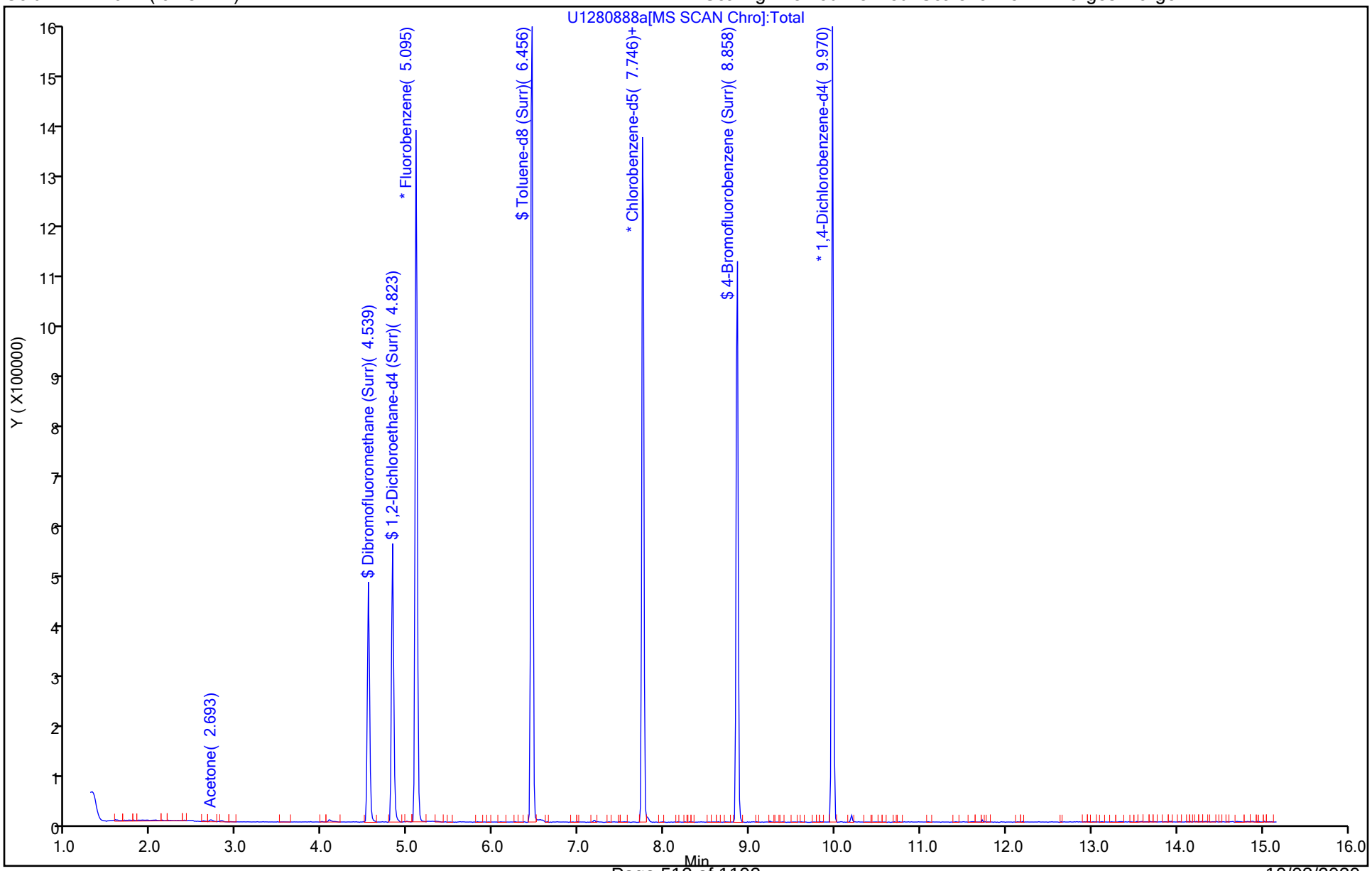
Report Date: 30-Sep-2020 13:54:06 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280888a.D

Injection Date:	29-Sep-2020 21:58:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-20	Lab Sample ID:	240-136984-20	Worklist Smp#:	15
Client ID:	MSA-SW42D-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280888a.D
Lims ID: 240-136984-B-20
Client ID: MSA-SW42D-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 21:58:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-015
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:54:05 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:54:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.1	90.65
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.0	94.80
$ 6 Toluene-d8 (Surr)	20.0	20.2	101.05
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.1	105.45

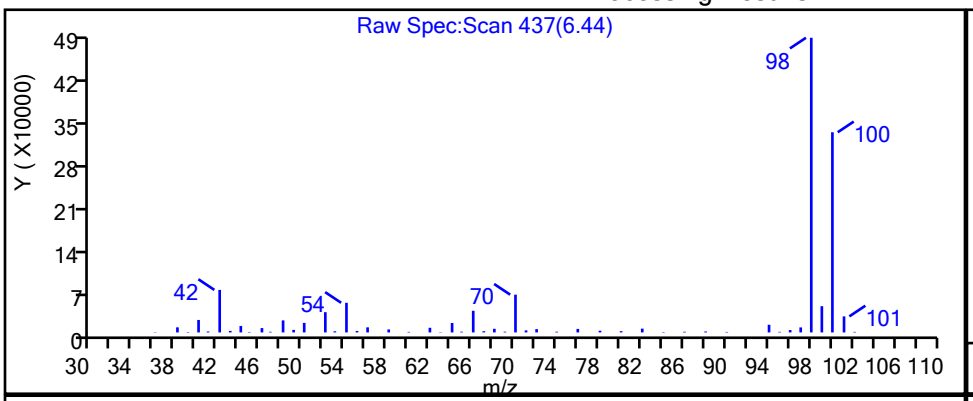
User Disabled Compound Report

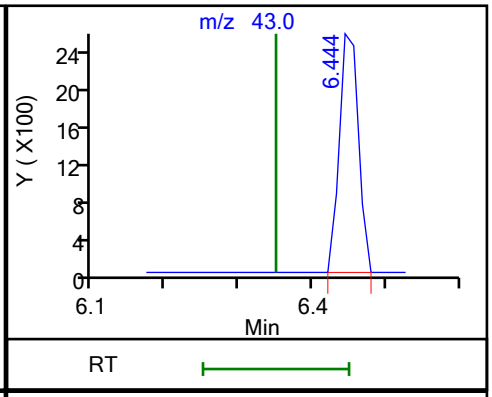
Eurofins TestAmerica, Canton

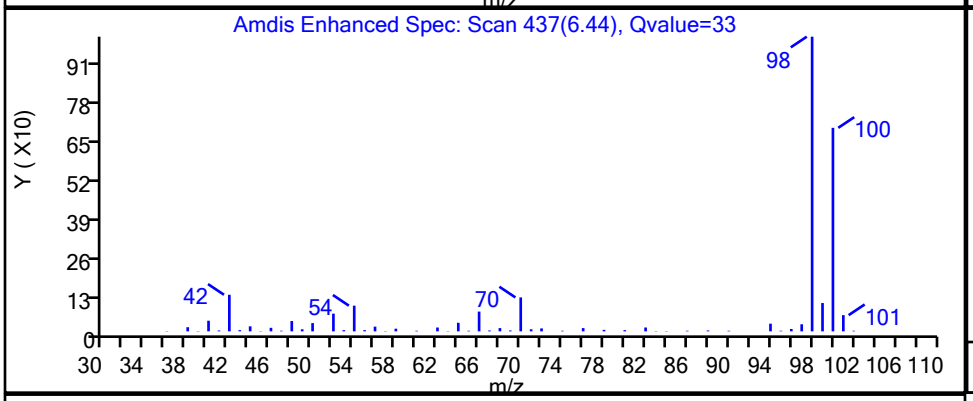
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280888a.D				
Injection Date:	29-Sep-2020 21:58:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-20	Lab Sample ID:	240-136984-20		
Client ID:	MSA-SW42D-092220				
Operator ID:	001904	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

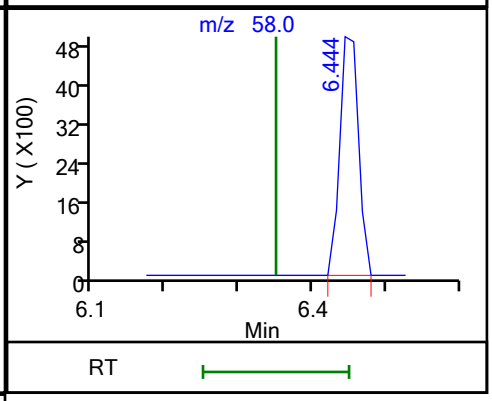
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

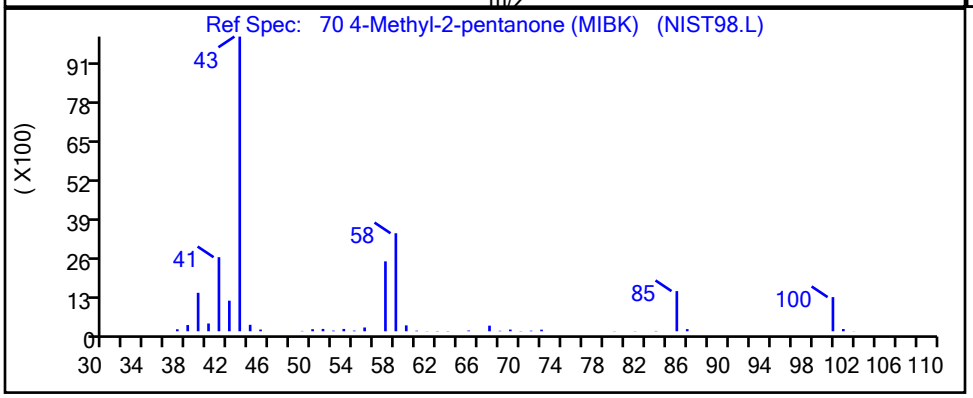
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4689	0.193590
6.44	58.00	8859	

Reviewer: laveyt, 30-Sep-2020 13:53:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	102		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43A-092220 Lab Sample ID: 240-136984-21

Matrix: Water Lab File ID: U1280889.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:42

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280889.D
Lims ID: 240-136984-B-21
Client ID: MSA-SW43A-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 22:20:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-016
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:54:05 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:54:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1130186	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	755064	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	386025	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	271209	18.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	344305	18.8	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1045736	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	373929	21.4	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	98	9186	1.28	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

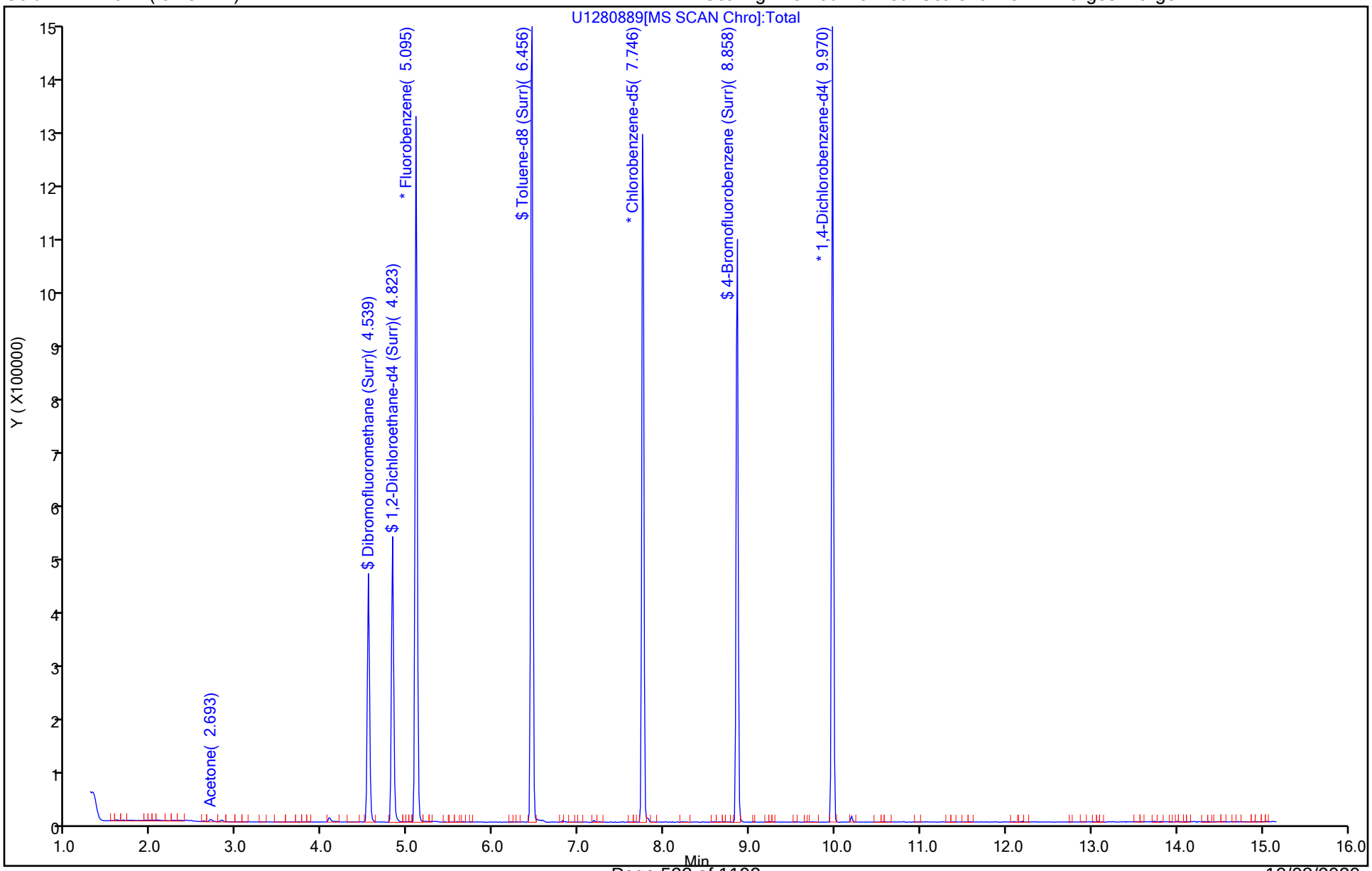
Report Date: 30-Sep-2020 13:54:20 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280889.D

Injection Date:	29-Sep-2020 22:20:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-21	Lab Sample ID:	240-136984-21	Worklist Smp#:	16
Client ID:	MSA-SW43A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280889.D				
Lims ID:	240-136984-B-21				
Client ID:	MSA-SW43A-092220				
Sample Type:	Client				
Inject. Date:	29-Sep-2020 22:20:30	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102415-016				
Operator ID:	001904	Instrument ID:	A3UX12		
Method:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	30-Sep-2020 13:54:05	Calib Date:	16-Jul-2020 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1621				

First Level Reviewer: laveyt Date: 30-Sep-2020 13:54:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.1	90.40
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.8	93.77
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.38
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.4	106.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43B-092220 Lab Sample ID: 240-136984-22

Matrix: Water Lab File ID: U1280890.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:47

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 22:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280890.D
Lims ID: 240-136984-A-22
Client ID: MSA-SW43B-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 22:43:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-017
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:54:40 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:54:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1149785	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	770970	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	397623	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	270844	17.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	355364	19.0	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1054545	20.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	371232	20.8	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	99	7088	0.9683	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

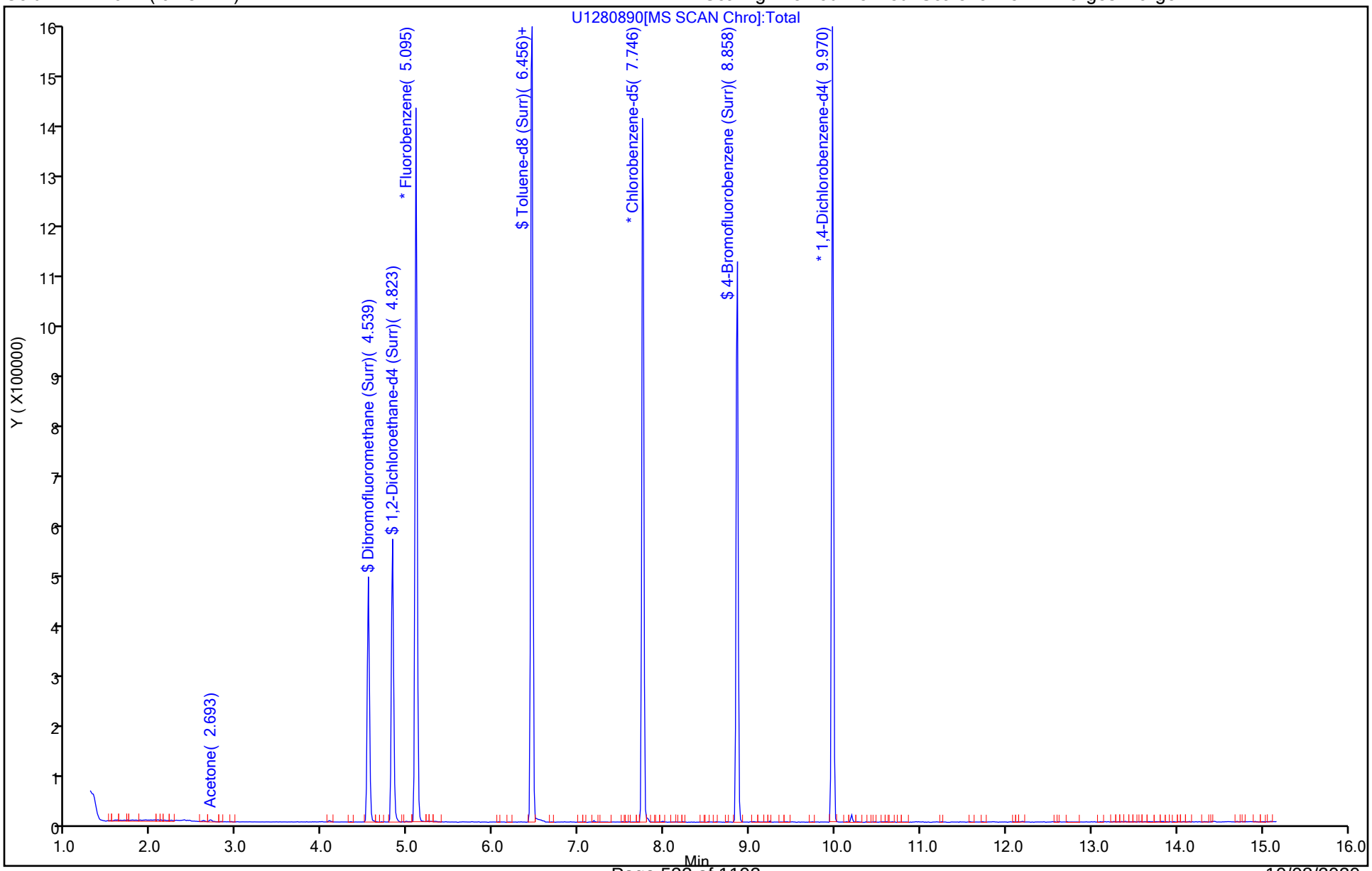
Report Date: 30-Sep-2020 13:54:40 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280890.D

Injection Date:	29-Sep-2020 22:43:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-22	Lab Sample ID:	240-136984-22	Worklist Smp#:	17
Client ID:	MSA-SW43B-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280890.D
Lims ID: 240-136984-A-22
Client ID: MSA-SW43B-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 22:43:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-017
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:54:40 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:54:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.7	88.74
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.0	95.13
$ 6 Toluene-d8 (Surr)	20.0	20.2	101.11
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.8	103.96

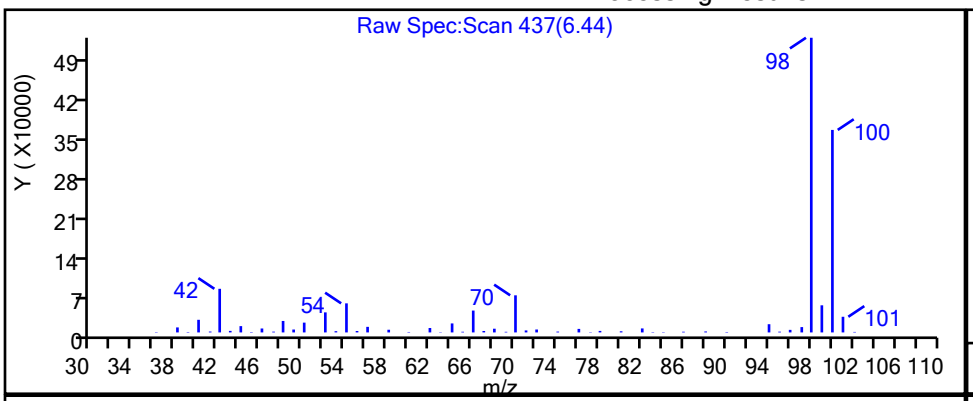
User Disabled Compound Report

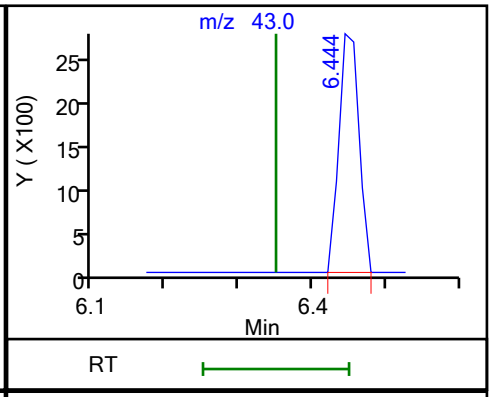
Eurofins TestAmerica, Canton

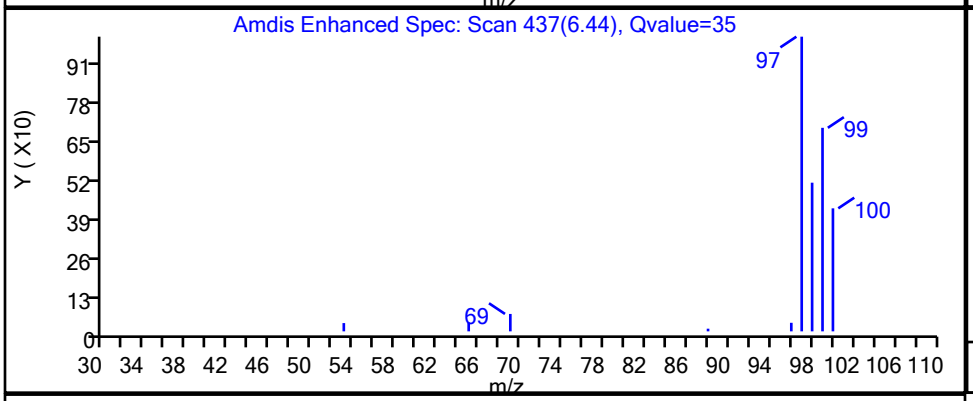
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280890.D				
Injection Date:	29-Sep-2020 22:43:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-22	Lab Sample ID:	240-136984-22		
Client ID:	MSA-SW43B-092220				
Operator ID:	001904	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

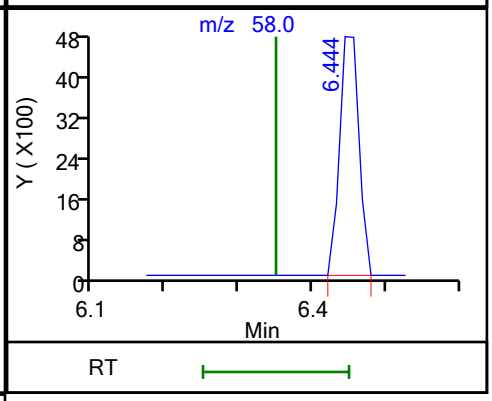
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

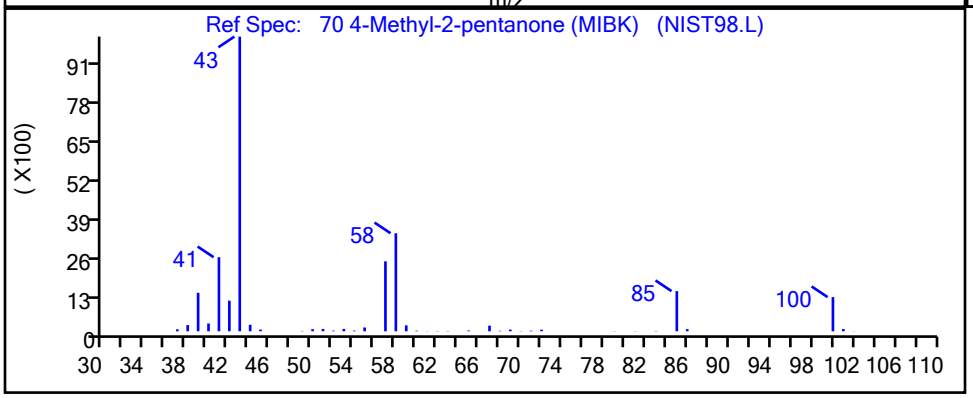
Processing Results











RT	Mass	Response	Amount
6.44	43.00	5239	0.209926
6.44	58.00	8822	

Reviewer: laveyt, 30-Sep-2020 13:54:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	86		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43C-092220 Lab Sample ID: 240-136984-23

Matrix: Water Lab File ID: U1280891.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:52

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280891.D
Lims ID: 240-136984-A-23
Client ID: MSA-SW43C-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 23:06:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-018
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:54:59 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:54:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1170304	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	812022	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	96	413221	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	267541	17.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	347316	18.3	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1113776	20.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	399113	21.2	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	97	8017	1.08	
25 Carbon disulfide	76		2.812				ND	7
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

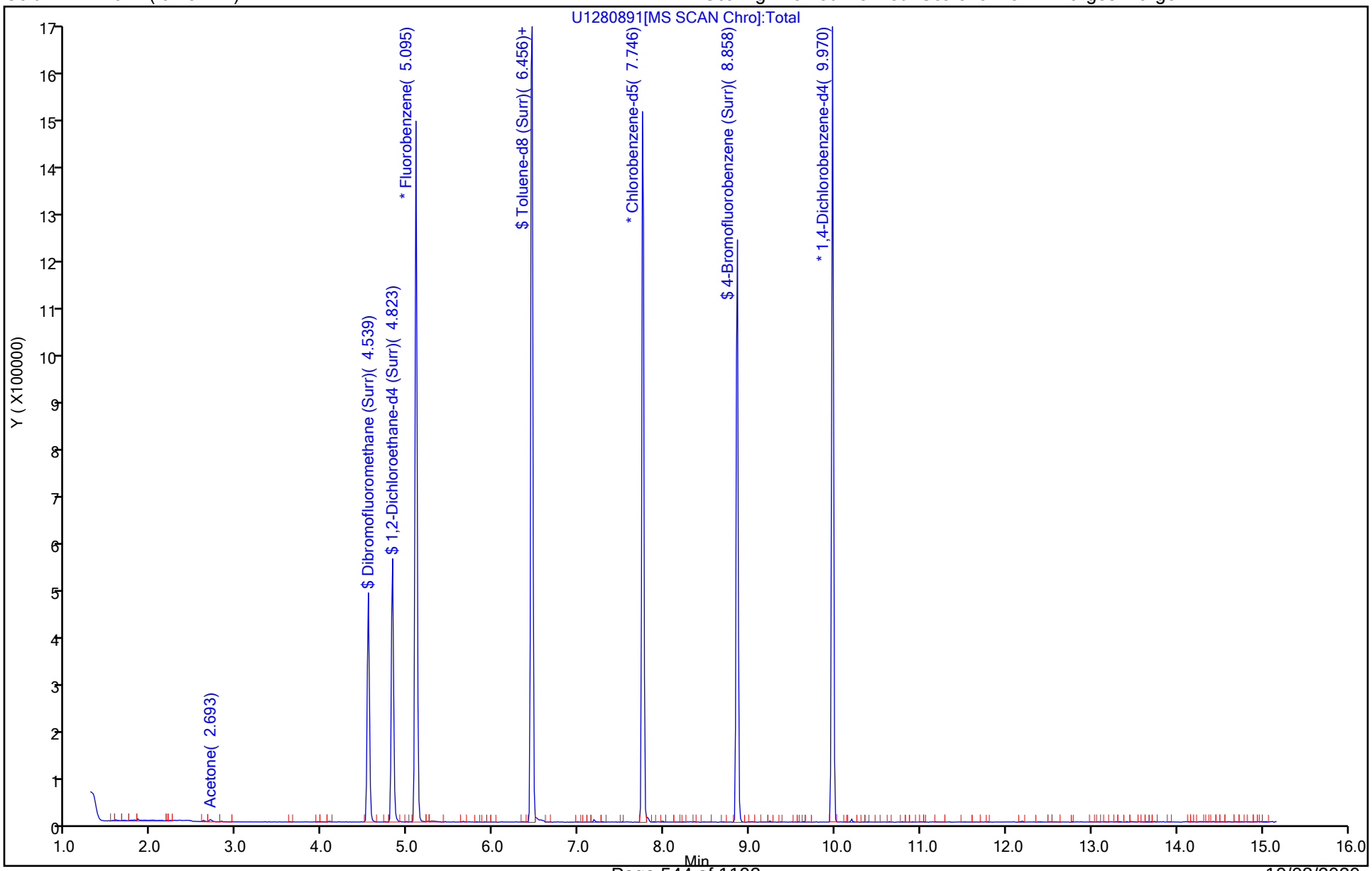
Report Date: 30-Sep-2020 13:55:00 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280891.D

Injection Date:	29-Sep-2020 23:06:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-23	Lab Sample ID:	240-136984-23	Worklist Smp#:	18
Client ID:	MSA-SW43C-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280891.D
Lims ID: 240-136984-A-23
Client ID: MSA-SW43C-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 23:06:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-018
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:54:59 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:54:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.2	86.12
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.3	91.35
$ 6 Toluene-d8 (Surr)	20.0	20.3	101.39
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.2	106.12

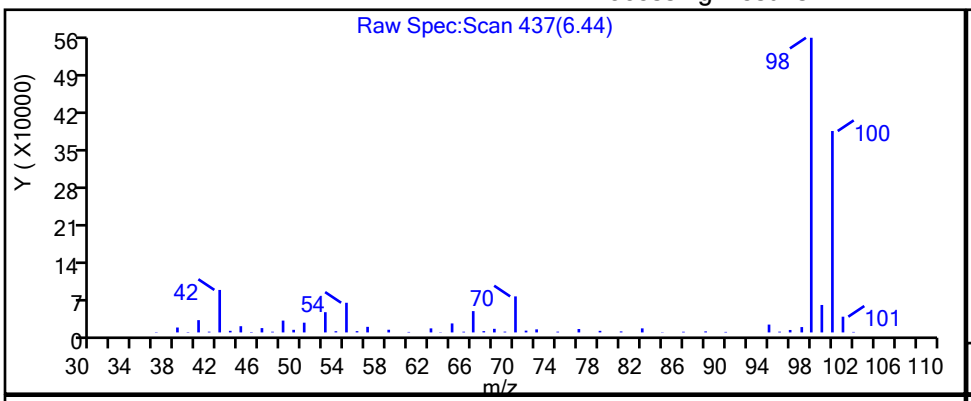
User Disabled Compound Report

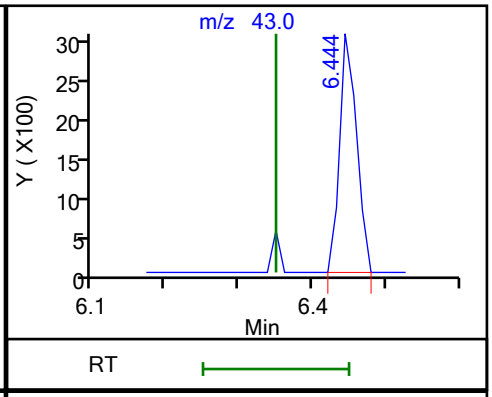
Eurofins TestAmerica, Canton

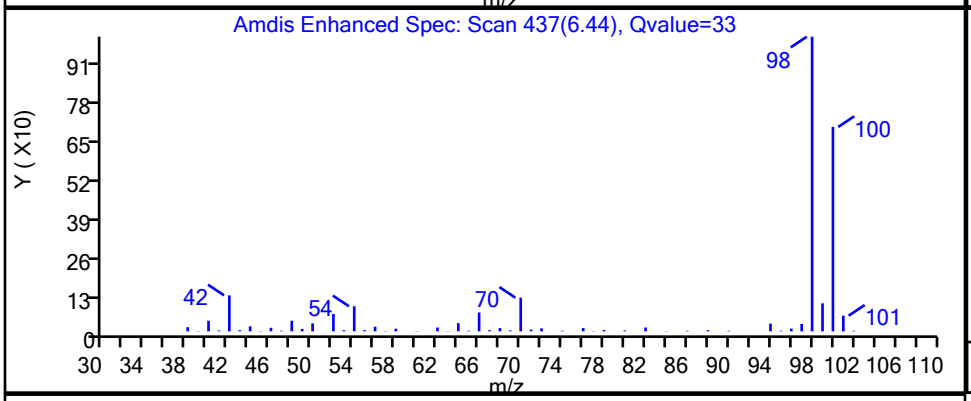
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280891.D				
Injection Date:	29-Sep-2020 23:06:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-23	Lab Sample ID:	240-136984-23		
Client ID:	MSA-SW43C-092220				
Operator ID:	001904	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

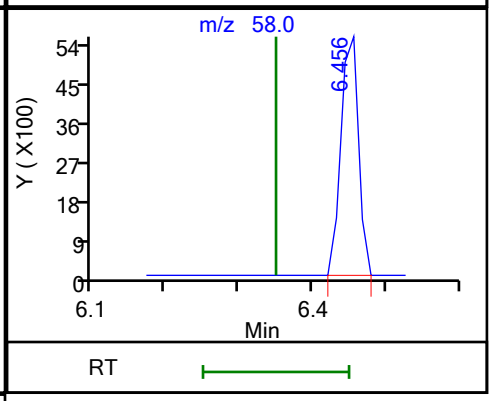
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

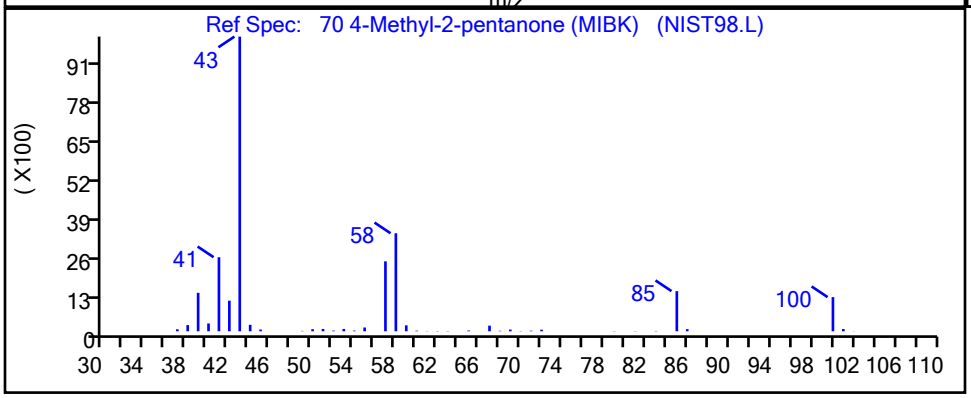
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4852	0.191010
6.46	58.00	9410	

Reviewer: laveyt, 30-Sep-2020 13:54:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	83		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		75-130
2037-26-5	Toluene-d8 (Surr)	96		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW43D-092220 Lab Sample ID: 240-136984-24

Matrix: Water Lab File ID: U1280892a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280892a.D
Lims ID: 240-136984-A-24
Client ID: MSA-SW43D-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 23:28:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-019
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:55:19 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:55:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1170878	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	808014	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	421576	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	256860	16.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	331844	17.4	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1044748	19.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	369507	19.7	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.681	2.681	0.000	99	6193	0.8308	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	7
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

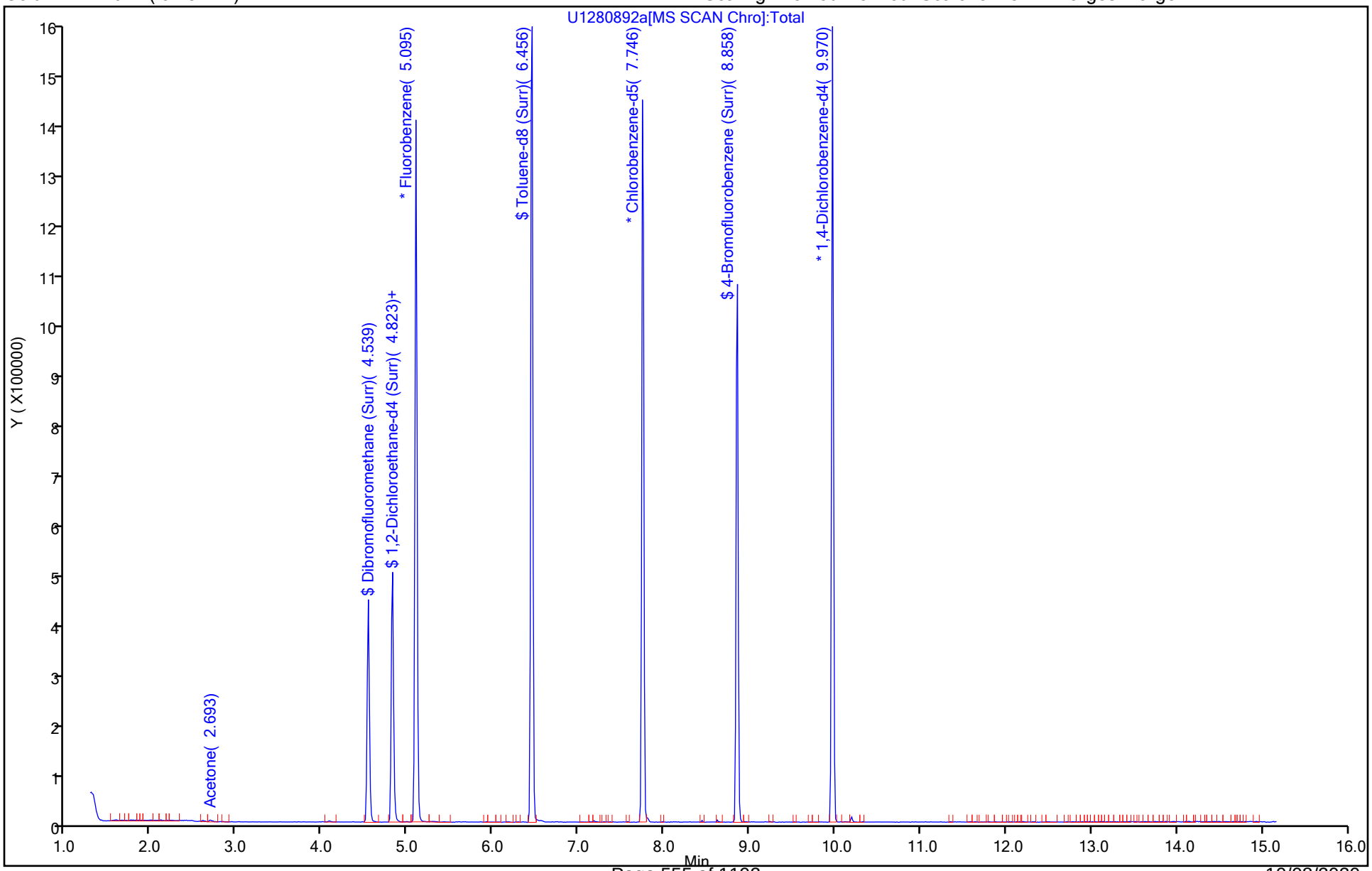
Report Date: 30-Sep-2020 13:55:19 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280892a.D

Injection Date:	29-Sep-2020 23:28:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-24	Lab Sample ID:	240-136984-24	Worklist Smp#:	19
Client ID:	MSA-SW43D-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280892a.D
Lims ID: 240-136984-A-24
Client ID: MSA-SW43D-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 23:28:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-019
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:55:19 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:55:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	16.5	82.64
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	17.4	87.23
$ 6 Toluene-d8 (Surr)	20.0	19.1	95.58
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.7	98.74

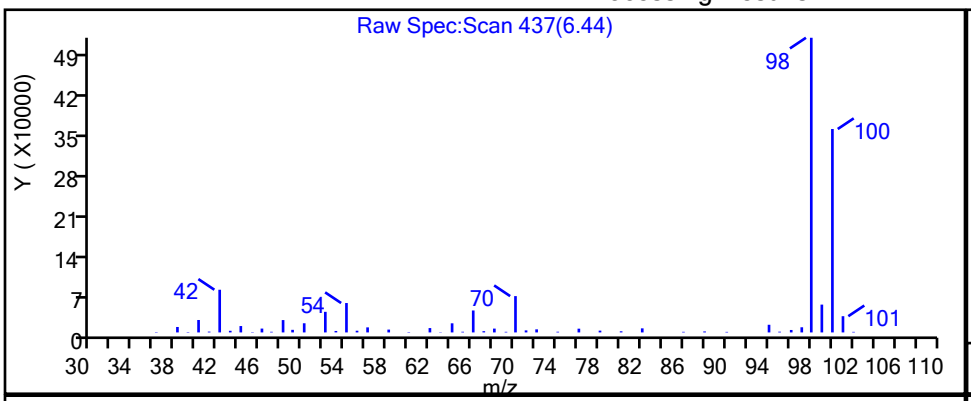
User Disabled Compound Report

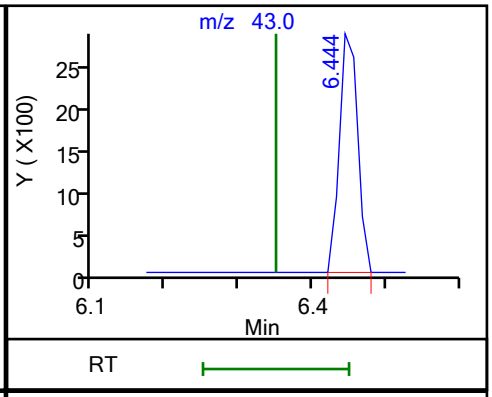
Eurofins TestAmerica, Canton

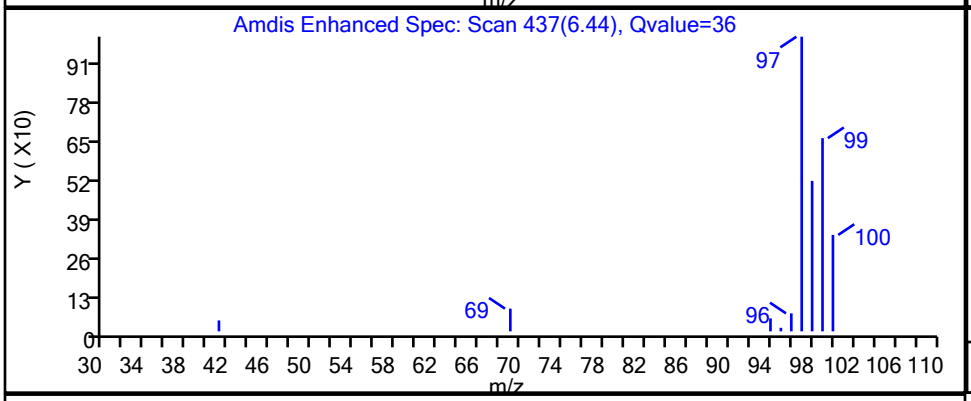
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280892a.D				
Injection Date:	29-Sep-2020 23:28:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-24	Lab Sample ID:	240-136984-24		
Client ID:	MSA-SW43D-092220				
Operator ID:	001904	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

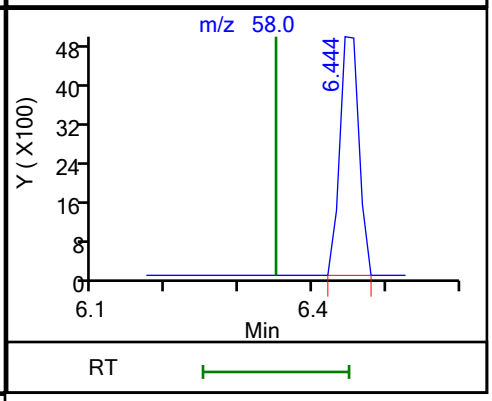
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

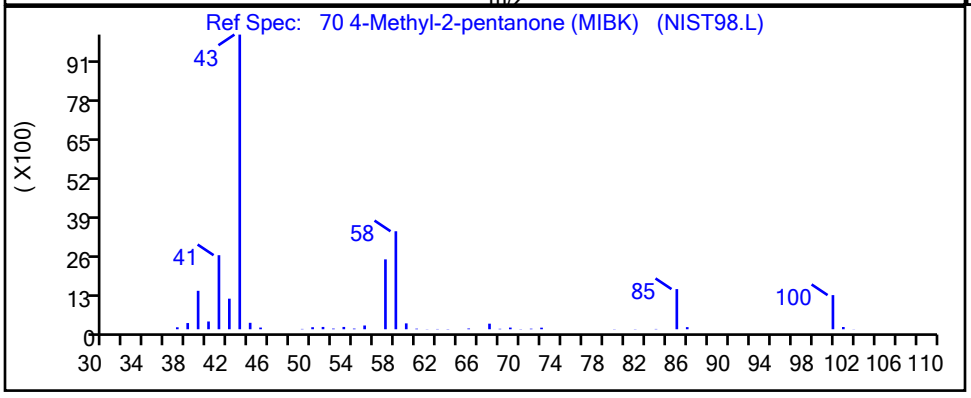
Processing Results











RT	Mass	Response	Amount
6.44	43.00	5034	0.198078
6.44	58.00	9084	

Reviewer: laveyt, 30-Sep-2020 13:55:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		47-134
1868-53-7	Dibromofluoromethane (Surr)	81		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44A-092220 Lab Sample ID: 240-136984-25

Matrix: Water Lab File ID: U1280893.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:14

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 23:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280893.D
Lims ID: 240-136984-C-25
Client ID: MSA-SW44A-092220
Sample Type: Client
Inject. Date: 29-Sep-2020 23:50:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-020
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:55:37 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:55:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1170471	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	813659	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	409152	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	252618	16.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	323397	17.0	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1038610	18.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	367615	19.5	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.681	2.681	0.000	99	9105	1.22	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	7
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

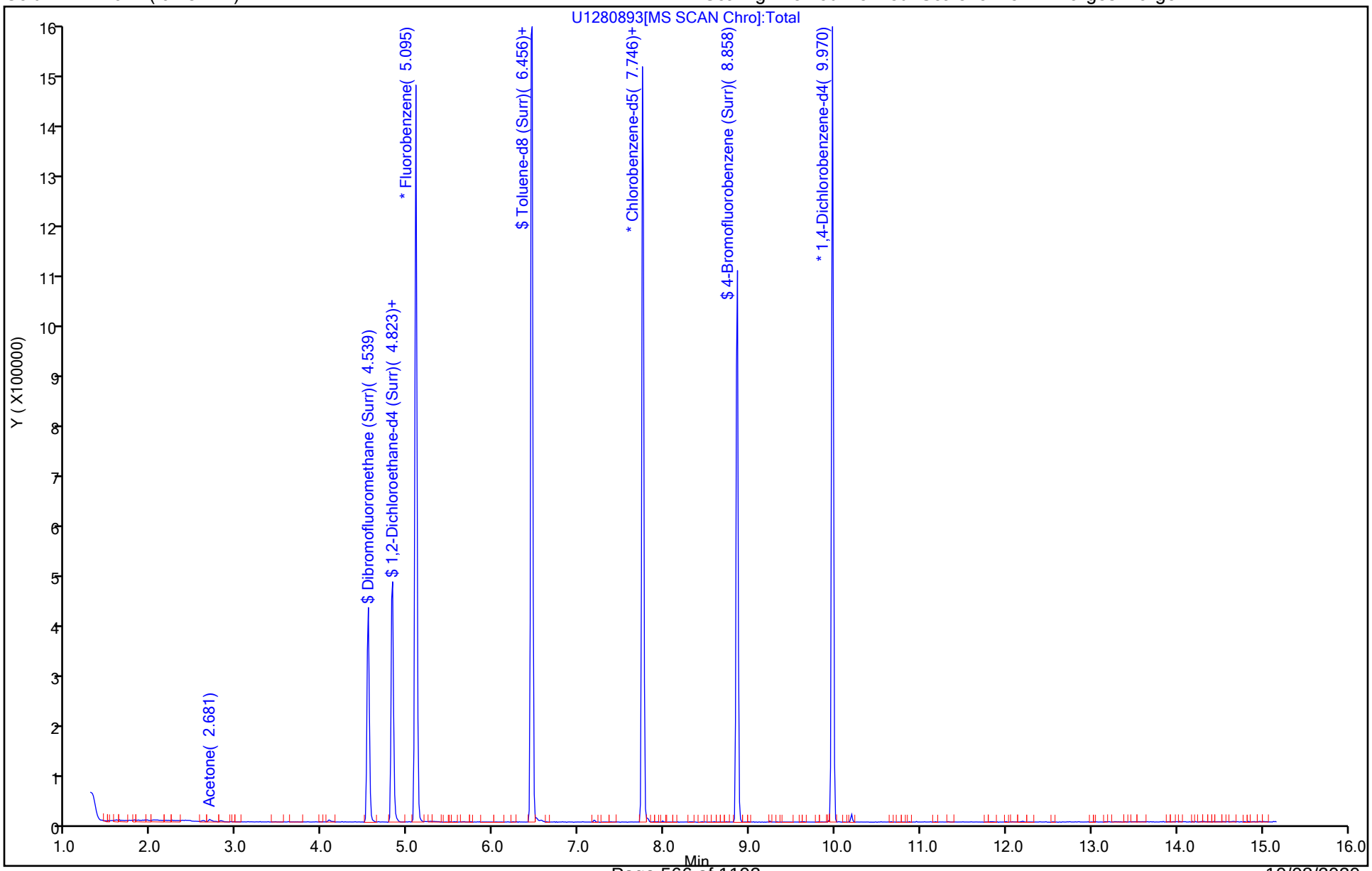
Report Date: 30-Sep-2020 13:55:38 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280893.D

Injection Date:	29-Sep-2020 23:50:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-C-25	Lab Sample ID:	240-136984-25	Worklist Smp#:	20
Client ID:	MSA-SW44A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280893.D				
Lims ID:	240-136984-C-25				
Client ID:	MSA-SW44A-092220				
Sample Type:	Client				
Inject. Date:	29-Sep-2020 23:50:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102415-020				
Operator ID:	001904	Instrument ID:	A3UX12		
Method:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	30-Sep-2020 13:55:37	Calib Date:	16-Jul-2020 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1621				

First Level Reviewer: laveyt Date: 30-Sep-2020 13:55:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	16.3	81.30
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	17.0	85.04
$ 6 Toluene-d8 (Surr)	20.0	18.9	94.36
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.5	97.55

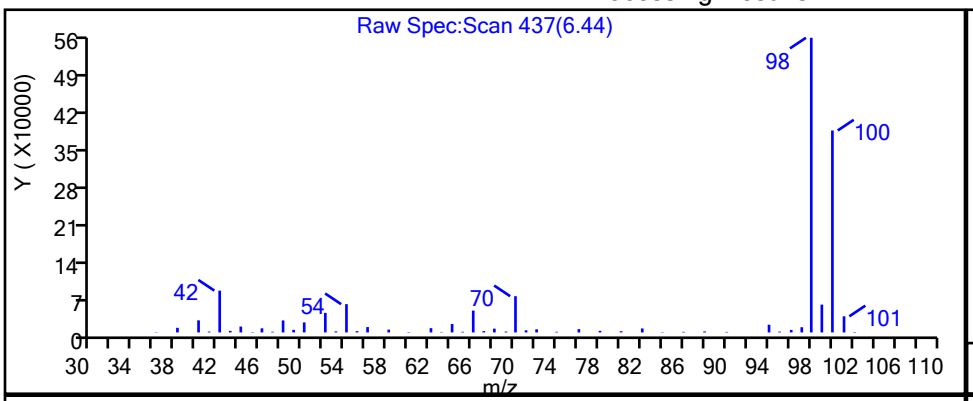
User Disabled Compound Report

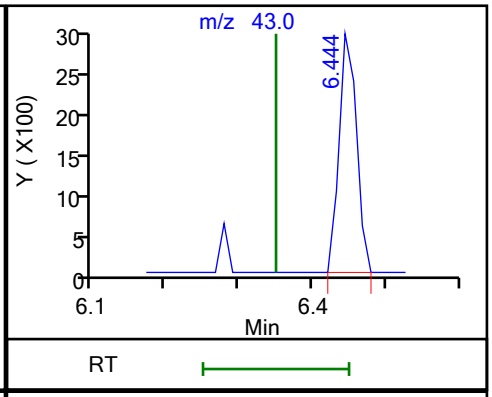
Eurofins TestAmerica, Canton

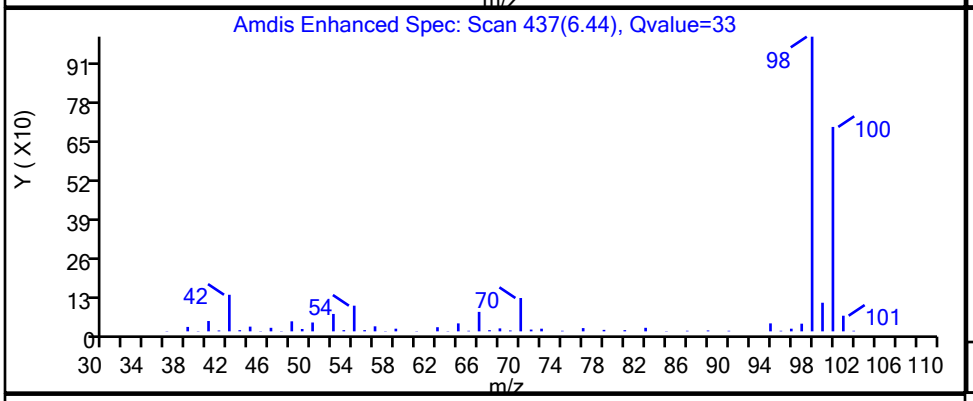
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280893.D				
Injection Date:	29-Sep-2020 23:50:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-C-25	Lab Sample ID:	240-136984-25		
Client ID:	MSA-SW44A-092220				
Operator ID:	001904	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

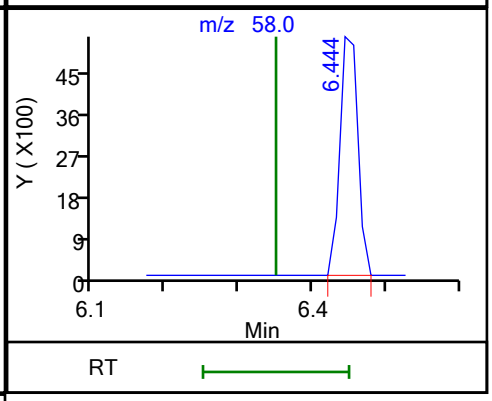
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

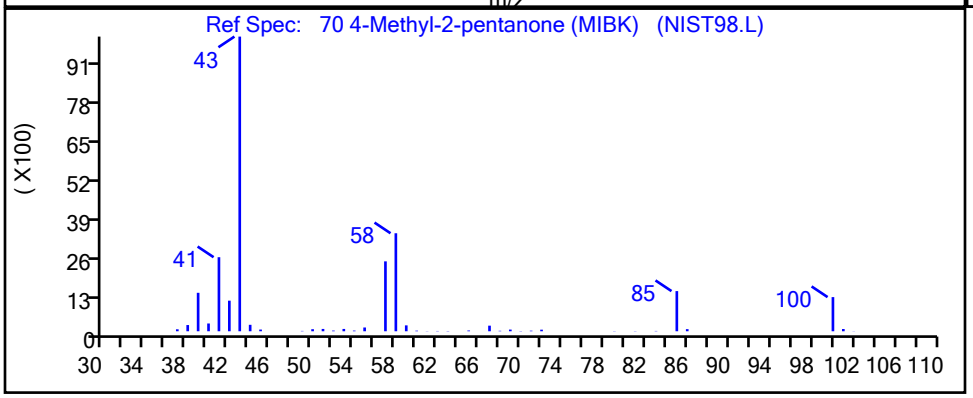
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4830	0.190117
6.44	58.00	8952	

Reviewer: laveyt, 30-Sep-2020 13:55:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	88		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44B-092220 Lab Sample ID: 240-136984-26

Matrix: Water Lab File ID: U1280894.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:23

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280894.D
Lims ID: 240-136984-B-26
Client ID: MSA-SW44B-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 00:13:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-021
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:55:57 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:55:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1143771	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	759304	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	389113	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	267640	17.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	345097	18.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1054554	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.846	8.846	0.000	92	373652	21.2	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.681	2.681	0.000	97	6629	0.9104	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

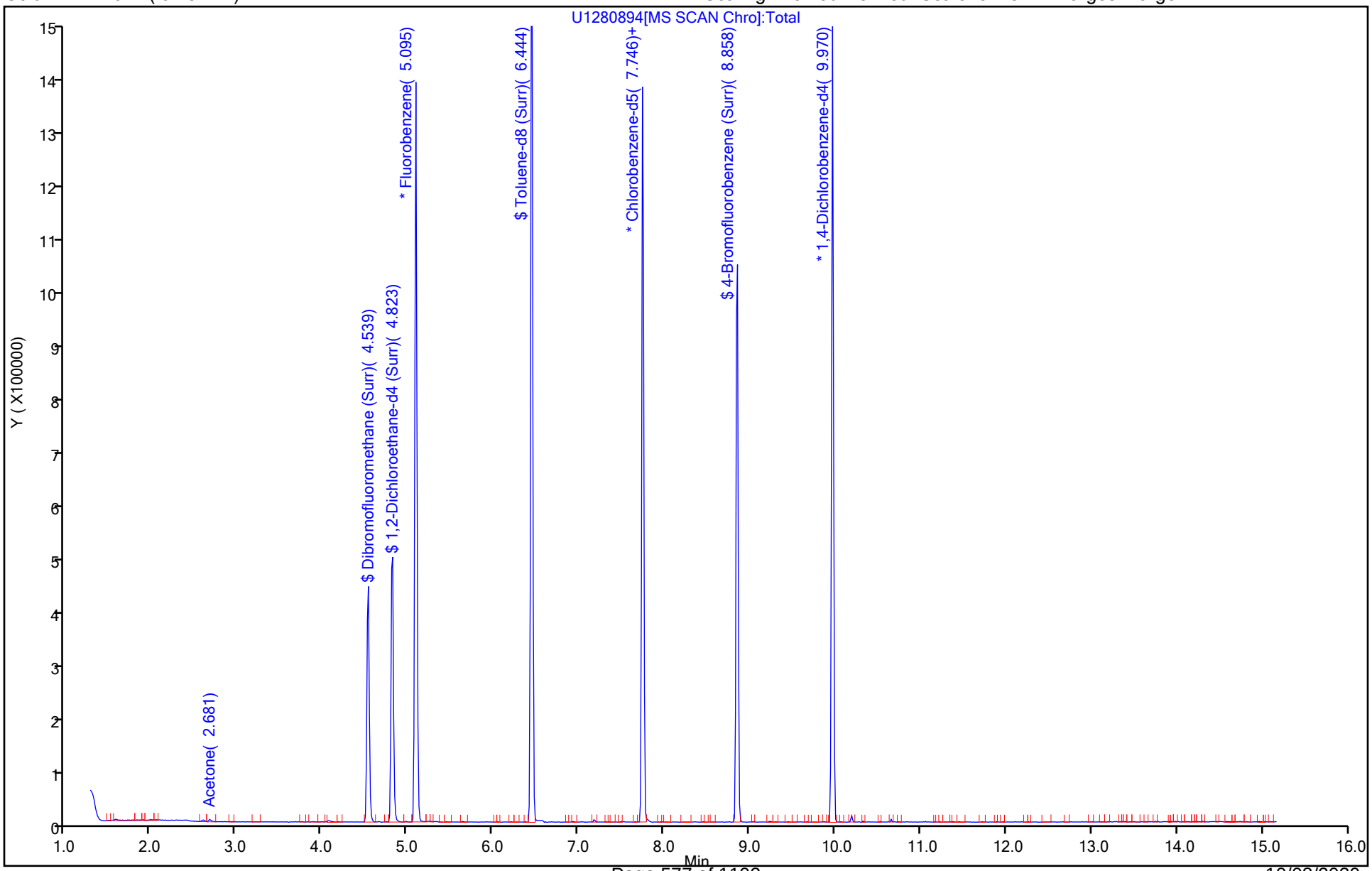
Report Date: 30-Sep-2020 13:55:58 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280894.D

Injection Date:	30-Sep-2020 00:13:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-26	Lab Sample ID:	240-136984-26	Worklist Smp#:	21
Client ID:	MSA-SW44B-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280894.D
Lims ID: 240-136984-B-26
Client ID: MSA-SW44B-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 00:13:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-021
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:55:57 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:55:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.6	88.15
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.6	92.87
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.67
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.2	106.25

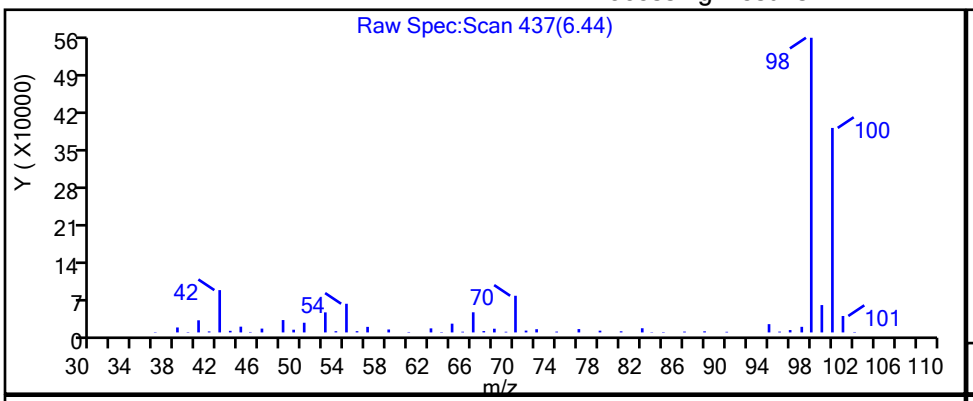
User Disabled Compound Report

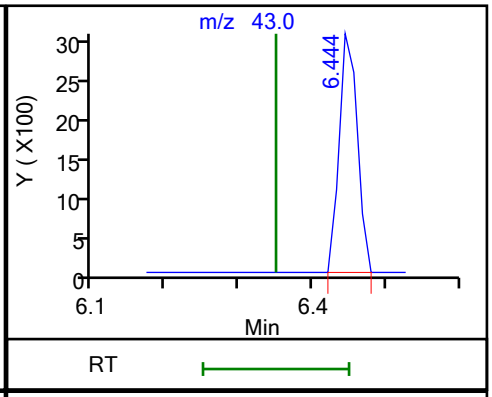
Eurofins TestAmerica, Canton

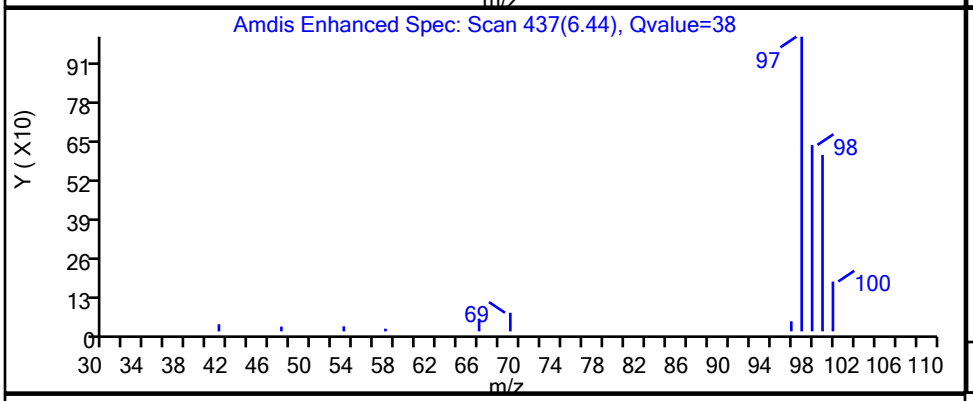
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280894.D				
Injection Date:	30-Sep-2020 00:13:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-26	Lab Sample ID:	240-136984-26		
Client ID:	MSA-SW44B-092220				
Operator ID:	001904	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

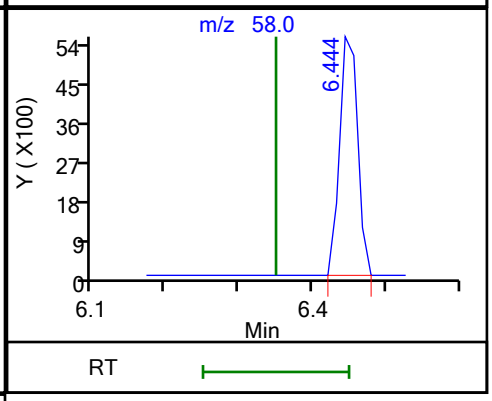
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

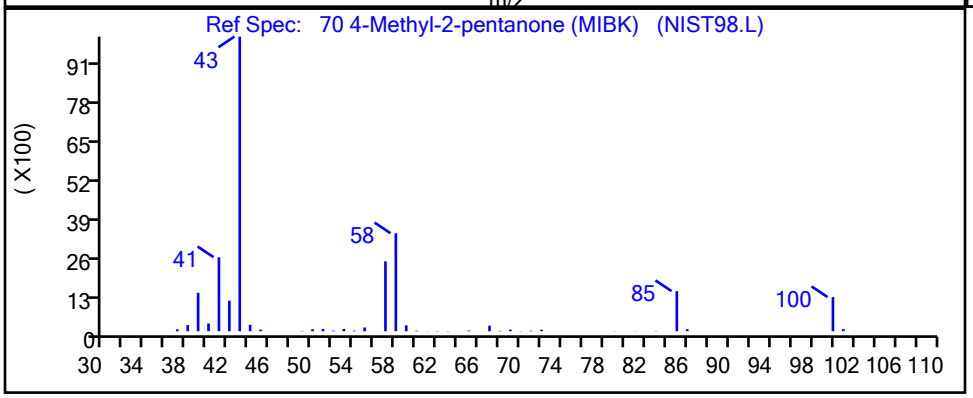
Processing Results











RT	Mass	Response	Amount
6.44	43.00	5245	0.211272
6.44	58.00	9567	

Reviewer: laveyt, 30-Sep-2020 13:55:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	102		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44C-092220 Lab Sample ID: 240-136984-27

Matrix: Water Lab File ID: U1280895.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:28

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280895.D
Lims ID: 240-136984-A-27
Client ID: MSA-SW44C-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 00:36:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-022
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:56:16 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:56:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	98	1134278	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	773889	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.001	95	415693	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	271469	18.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	348678	18.9	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1071175	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	385265	21.5	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	98	7051	0.9765	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	7
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

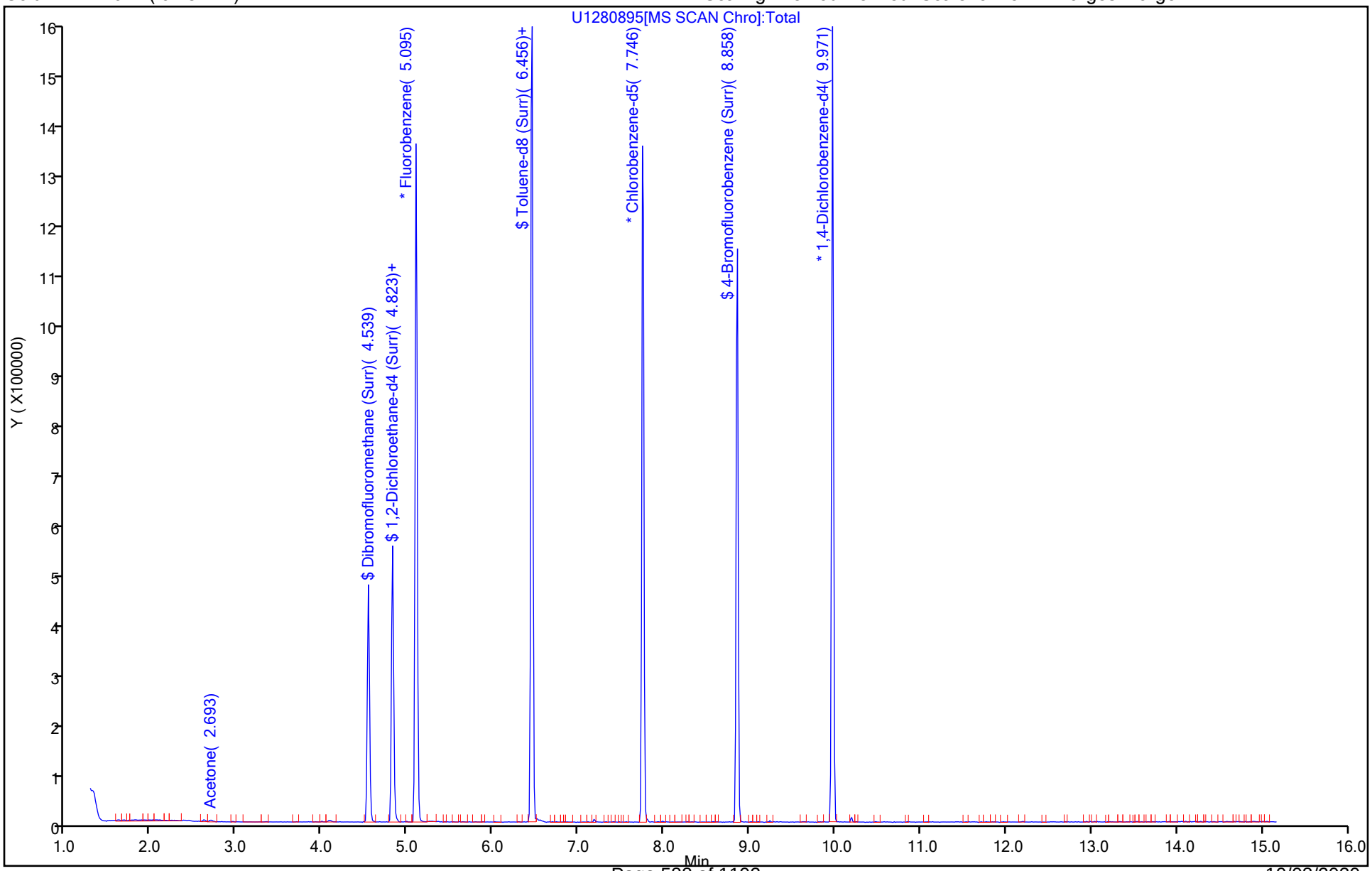
Report Date: 30-Sep-2020 13:56:16 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280895.D

Injection Date:	30-Sep-2020 00:36:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-27	Lab Sample ID:	240-136984-27	Worklist Smp#:	22
Client ID:	MSA-SW44C-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280895.D
Lims ID: 240-136984-A-27
Client ID: MSA-SW44C-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 00:36:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-022
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:56:16 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:56:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.0	90.16
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.9	94.62
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.32
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.5	107.49

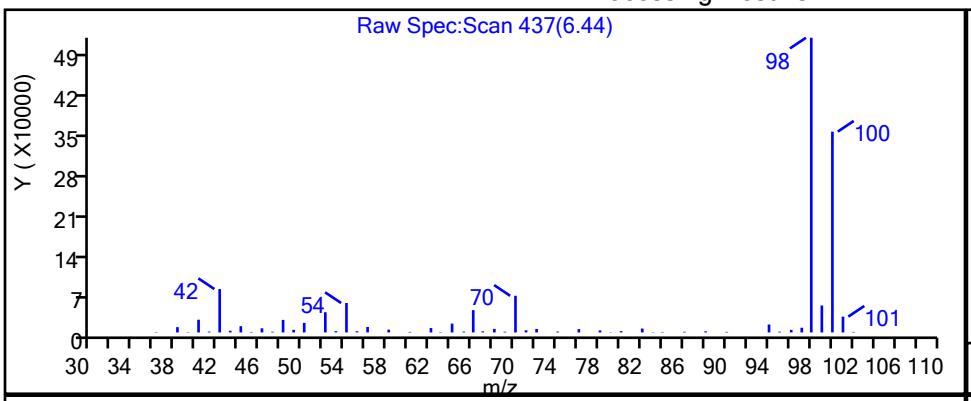
User Disabled Compound Report

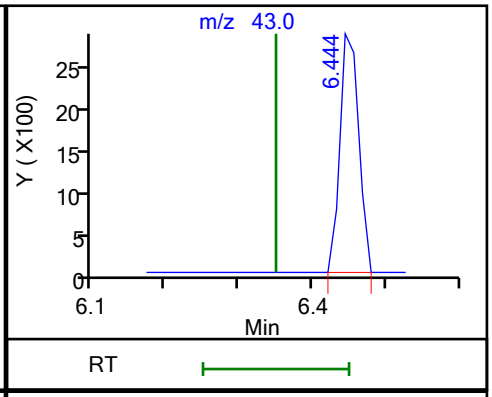
Eurofins TestAmerica, Canton

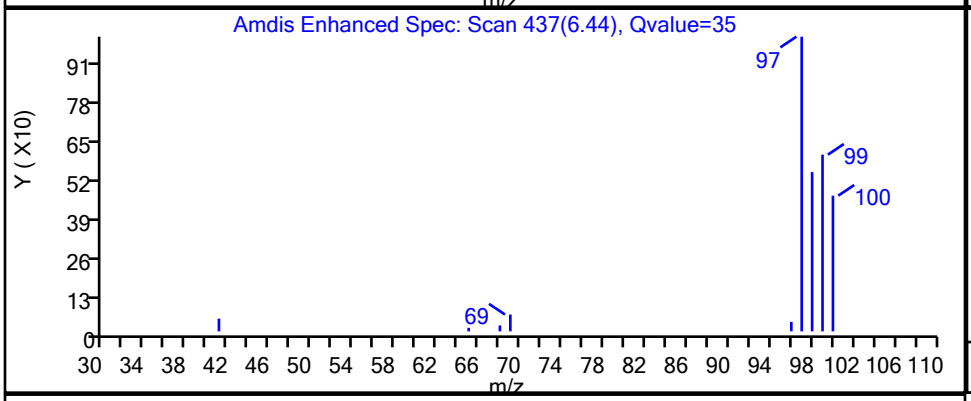
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280895.D				
Injection Date:	30-Sep-2020 00:36:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-27	Lab Sample ID:	240-136984-27		
Client ID:	MSA-SW44C-092220				
Operator ID:	001904	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

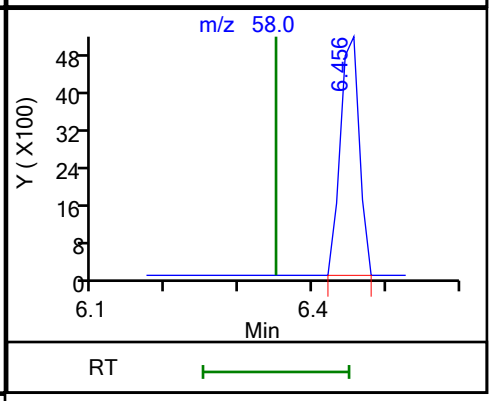
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

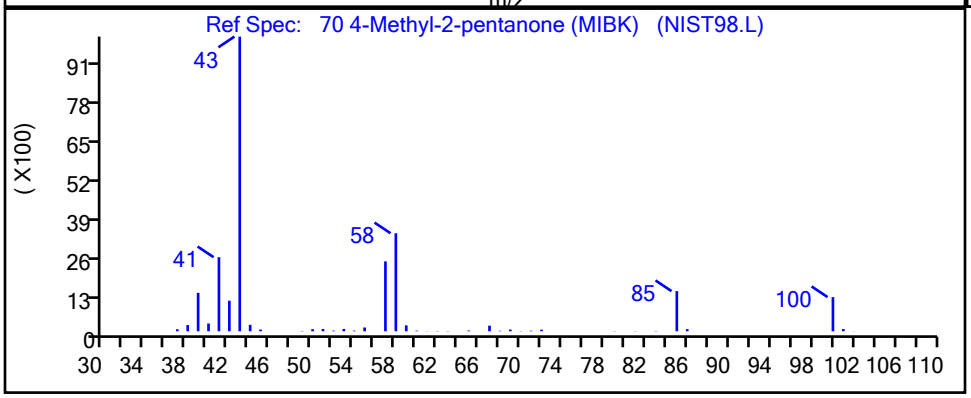
Processing Results











RT	Mass	Response	Amount
6.44	43.00	5135	0.208572
6.46	58.00	9322	

Reviewer: laveyt, 30-Sep-2020 13:56:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	100		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW44D-092220 Lab Sample ID: 240-136984-28

Matrix: Water Lab File ID: U1280896a.D

Analysis Method: 8260C Date Collected: 09/22/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 00:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280896a.D
Lims ID: 240-136984-B-28
Client ID: MSA-SW44D-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 00:58:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-023
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:56:16 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:56:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1093231	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	742273	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	381264	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	263884	18.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	95	339020	19.1	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1006141	20.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	358556	20.9	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	98	7607	1.09	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

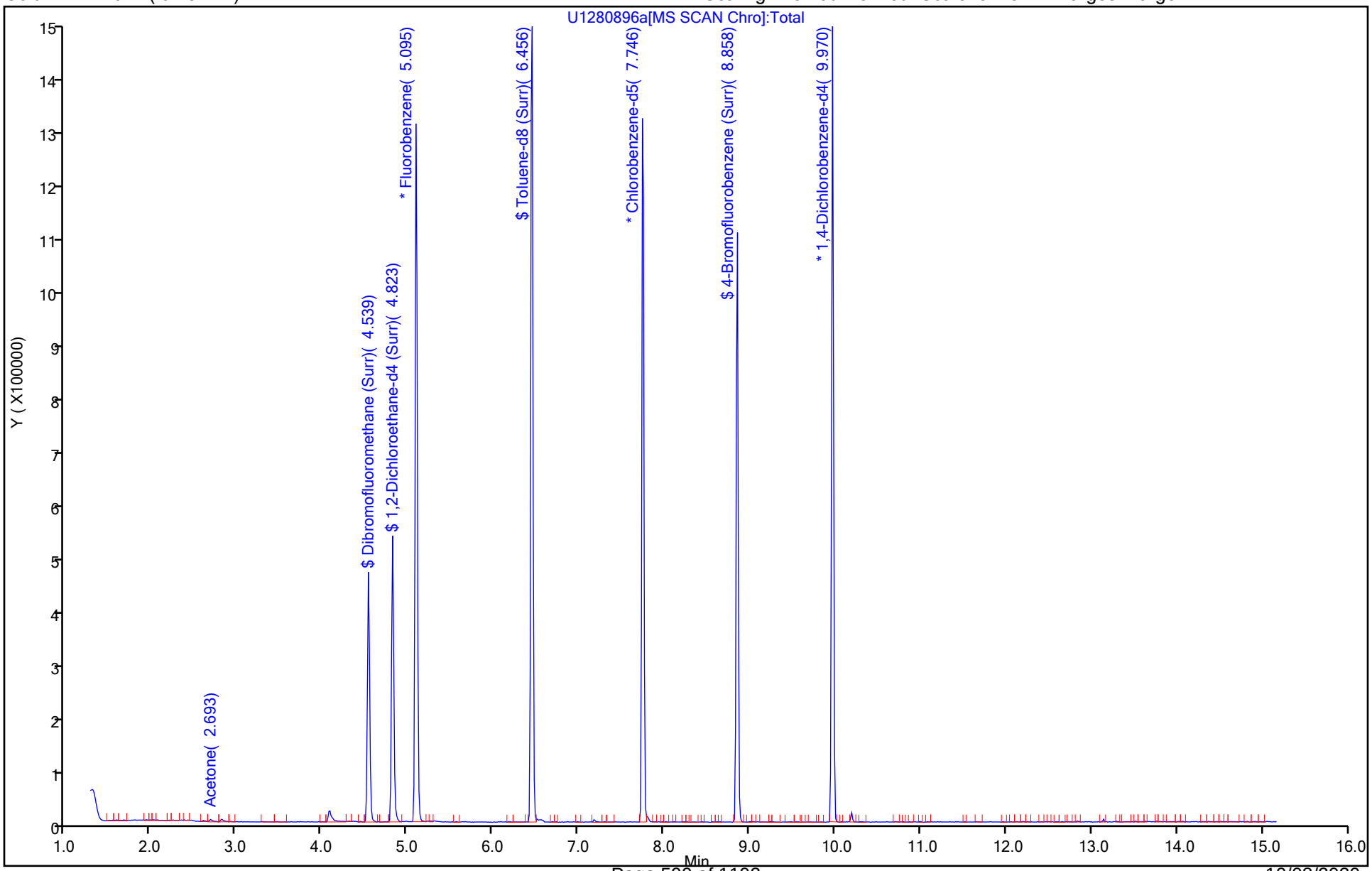
Report Date: 30-Sep-2020 13:56:31 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280896a.D

Injection Date:	30-Sep-2020 00:58:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-28	Lab Sample ID:	240-136984-28	Worklist Smp#:	23
Client ID:	MSA-SW44D-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280896a.D				
Lims ID:	240-136984-B-28				
Client ID:	MSA-SW44D-092220				
Sample Type:	Client				
Inject. Date:	30-Sep-2020 00:58:30	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102415-023				
Operator ID:	001904	Instrument ID:	A3UX12		
Method:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	30-Sep-2020 13:56:16	Calib Date:	16-Jul-2020 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1621				

First Level Reviewer: laveyt Date: 30-Sep-2020 13:56:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.2	90.93
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.1	95.45
$ 6 Toluene-d8 (Surr)	20.0	20.0	100.20
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.9	104.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: TB-092220 Lab Sample ID: 240-136984-29

Matrix: Water Lab File ID: U1280897.D

Analysis Method: 8260C Date Collected: 09/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280897.D
Lims ID: 240-136984-B-29
Client ID: TB-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 01:20:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-024
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:56:16 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:56:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1125181	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	752282	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	394920	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	267885	17.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	342614	18.7	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1043180	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	373207	21.4	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	99	34165	4.77	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

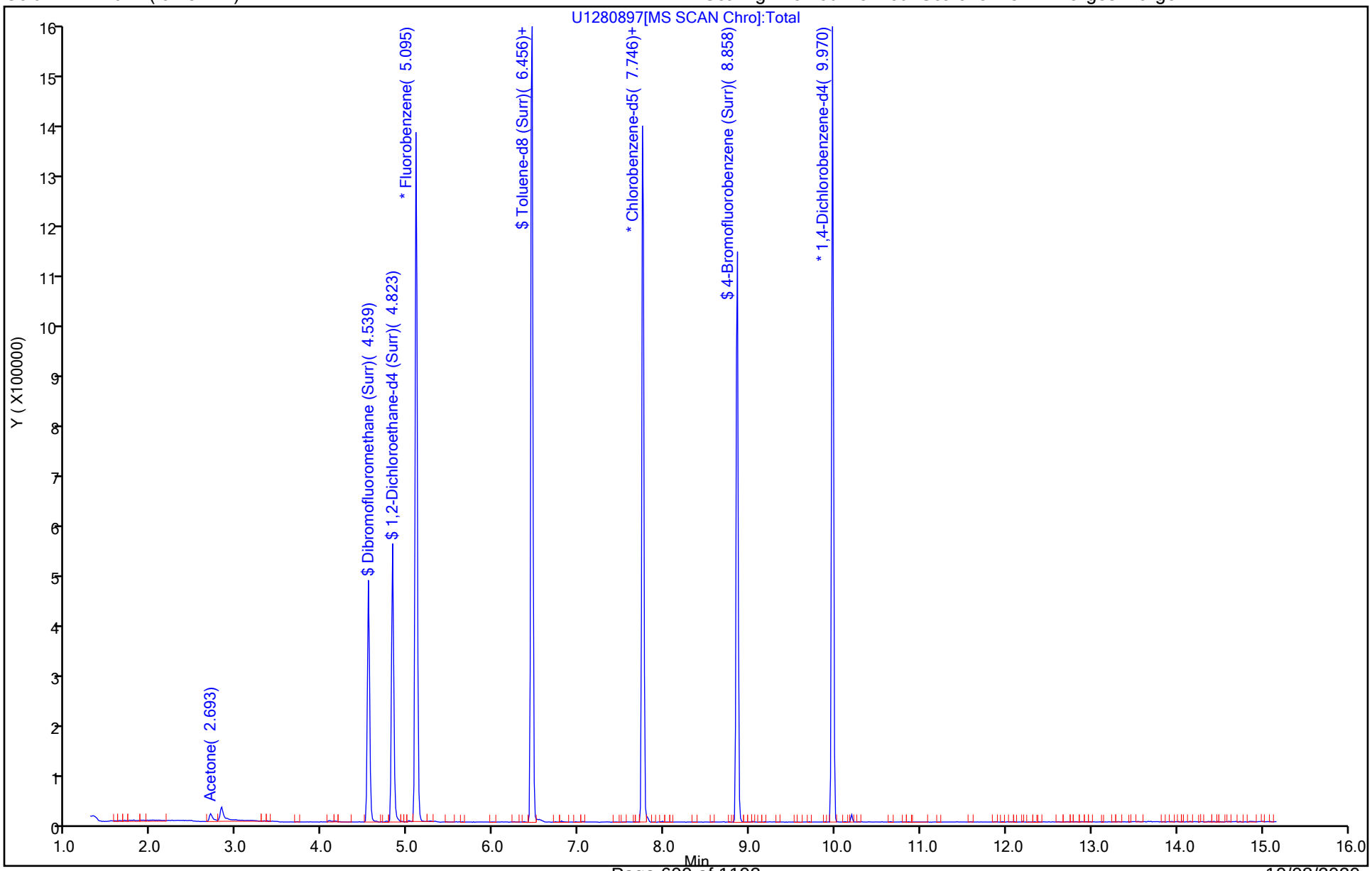
Report Date: 30-Sep-2020 13:56:46 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280897.D

Injection Date:	30-Sep-2020 01:20:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-29	Lab Sample ID:	240-136984-29	Worklist Smp#:	24
Client ID:	TB-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280897.D
Lims ID: 240-136984-B-29
Client ID: TB-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 01:20:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-024
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:56:16 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:56:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.9	89.69
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.7	93.72
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.51
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.4	107.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	102		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW46A-092220 Lab Sample ID: 240-136984-30

Matrix: Water Lab File ID: U1280898.D

Analysis Method: 8260C Date Collected: 09/22/2020 10:13

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 01:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280898.D
Lims ID: 240-136984-B-30
Client ID: MSA-SW46A-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 01:43:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-025
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:57:05 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:57:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1128519	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	757102	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.000	95	401368	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	266471	17.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	341389	18.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1049616	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	95	373723	21.3	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	95	8678	1.21	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	7
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

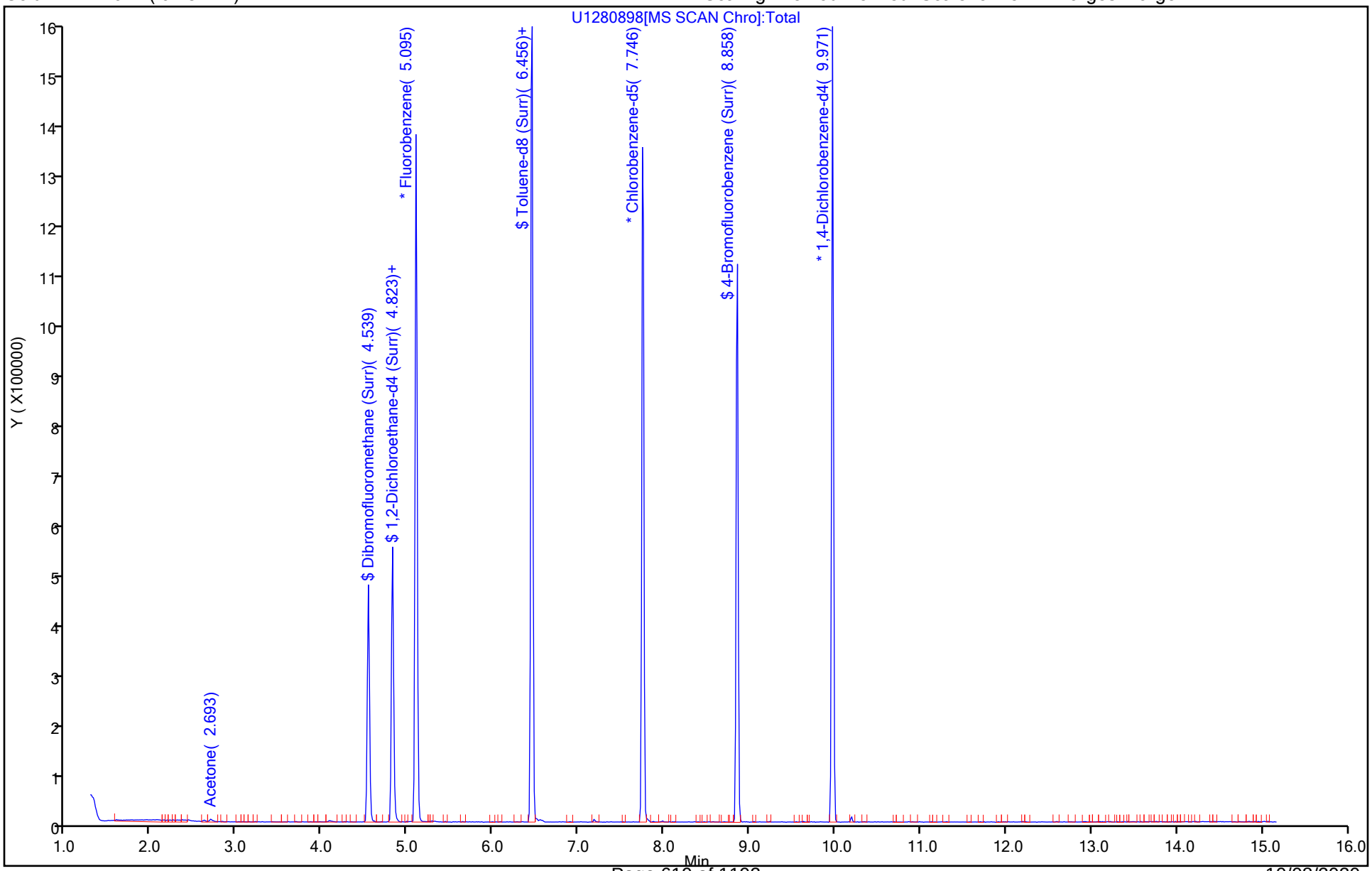
Report Date: 30-Sep-2020 13:57:05 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280898.D

Injection Date:	30-Sep-2020 01:43:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-B-30	Lab Sample ID:	240-136984-30	Worklist Smp#:	25
Client ID:	MSA-SW46A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280898.D
Lims ID: 240-136984-B-30
Client ID: MSA-SW46A-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 01:43:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-025
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:57:05 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:57:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.8	88.95
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.6	93.11
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.49
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.3	106.58

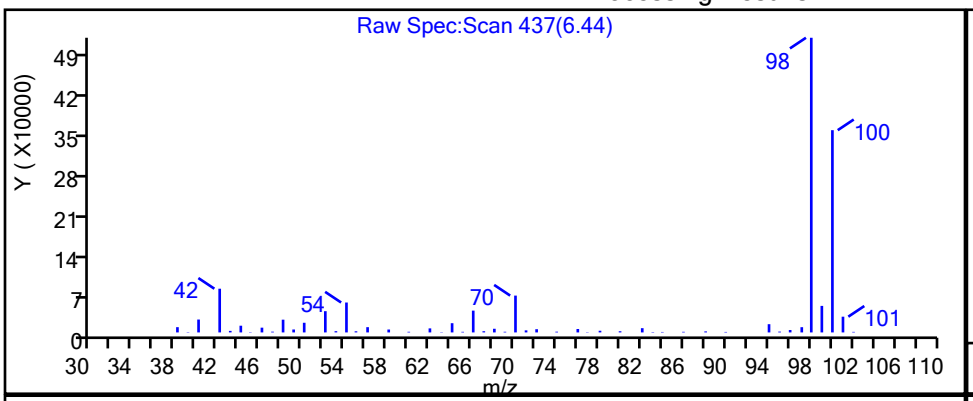
User Disabled Compound Report

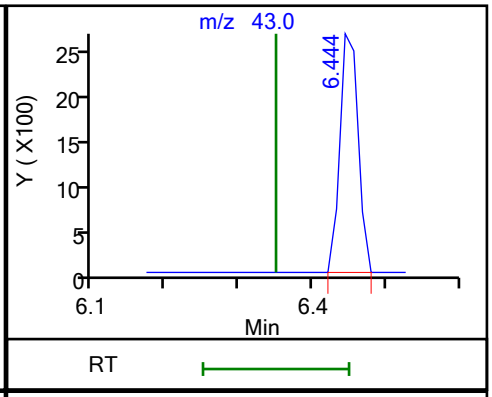
Eurofins TestAmerica, Canton

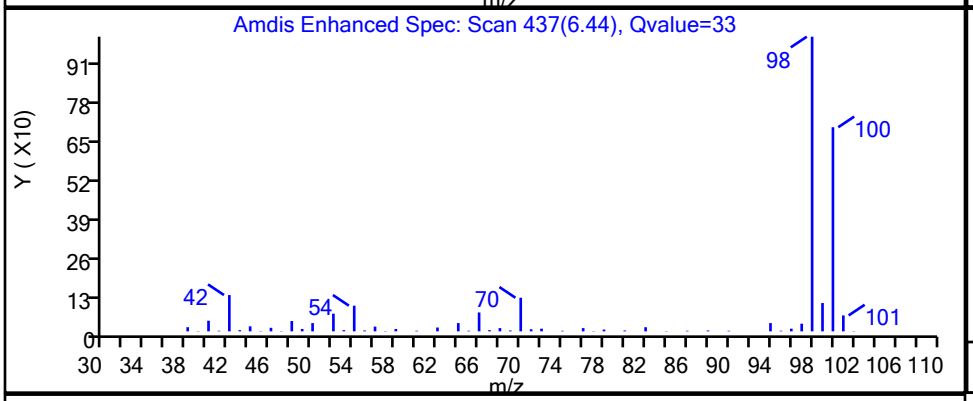
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280898.D				
Injection Date:	30-Sep-2020 01:43:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-B-30	Lab Sample ID:	240-136984-30		
Client ID:	MSA-SW46A-092220				
Operator ID:	001904	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

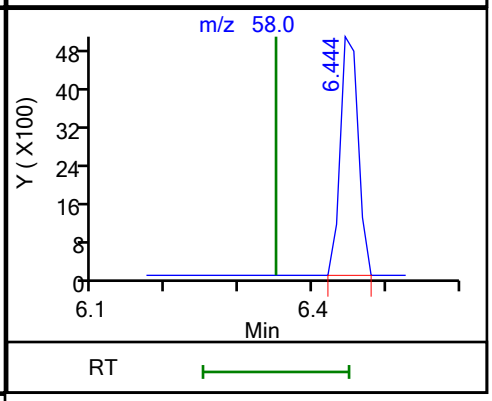
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

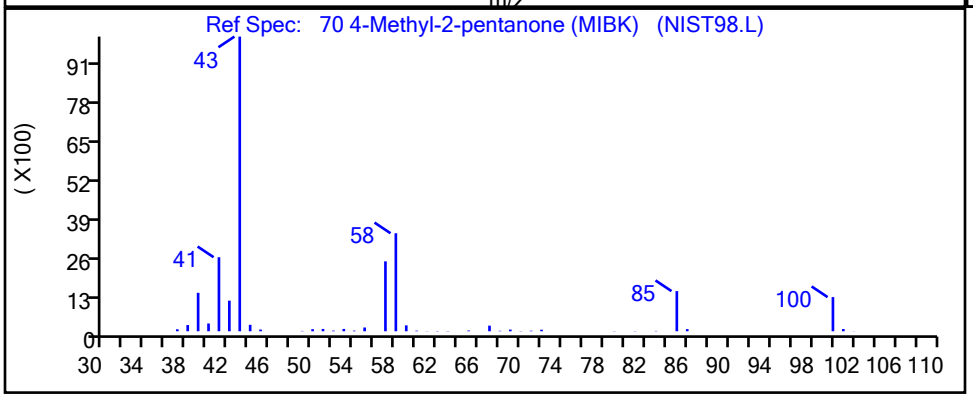
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4678	0.190979
6.44	58.00	8616	

Reviewer: laveyt, 30-Sep-2020 13:56:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW47A-092220 Lab Sample ID: 240-136984-31

Matrix: Water Lab File ID: U1280899.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280899.D
Lims ID: 240-136984-A-31
Client ID: MSA-SW47A-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 02:05:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-026
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:57:24 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:57:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1114302	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	746657	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	390594	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	266621	18.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	342956	18.9	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1038227	20.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	377991	21.9	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	99	6451	0.9094	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	7
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	7
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

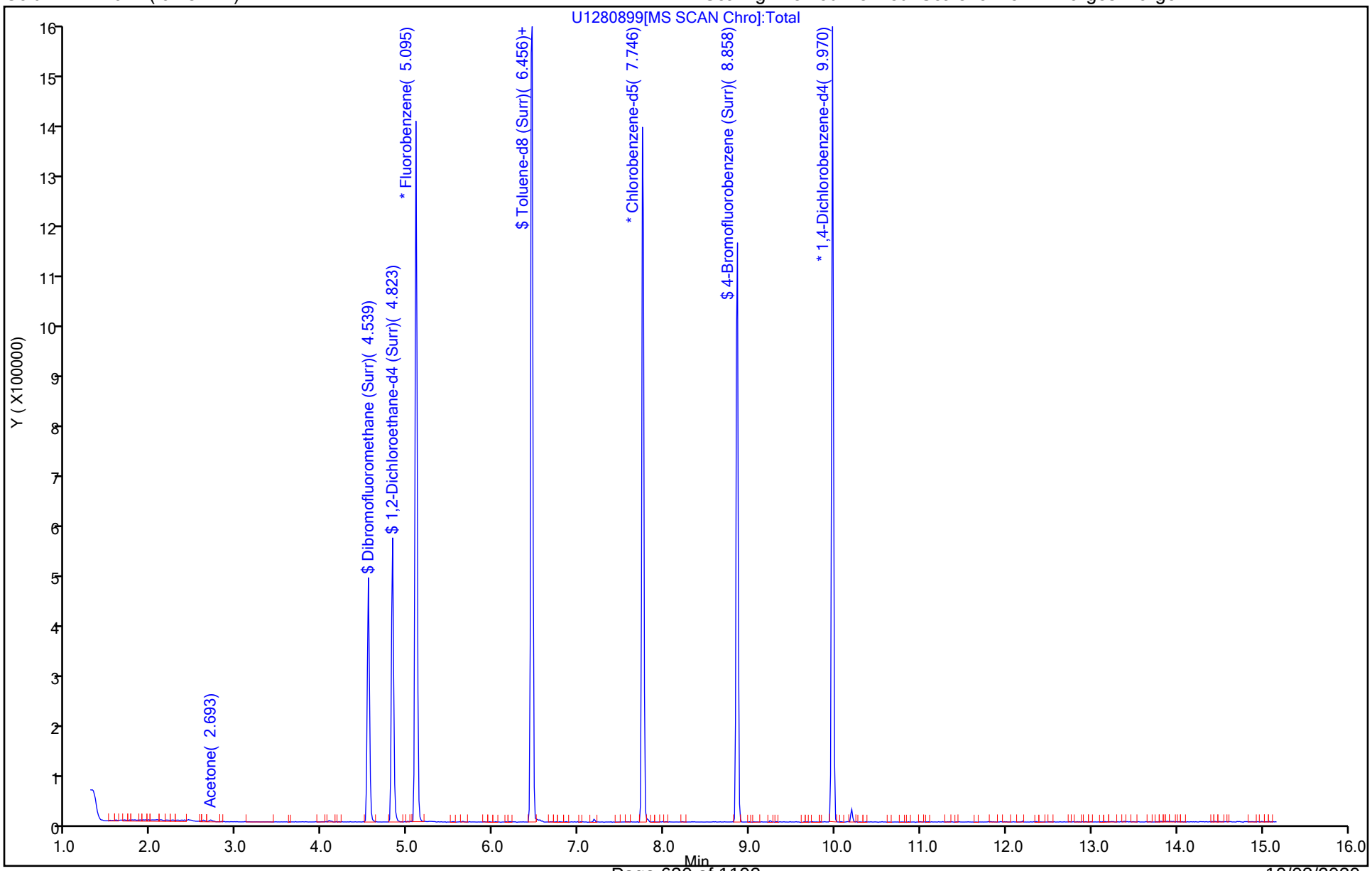
Report Date: 30-Sep-2020 13:57:24 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280899.D

Injection Date:	30-Sep-2020 02:05:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-31	Lab Sample ID:	240-136984-31	Worklist Smp#:	26
Client ID:	MSA-SW47A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280899.D
Lims ID: 240-136984-A-31
Client ID: MSA-SW47A-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 02:05:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-026
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:57:24 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:57:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.0	90.13
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.9	94.73
$ 6 Toluene-d8 (Surr)	20.0	20.6	102.79
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.9	109.30

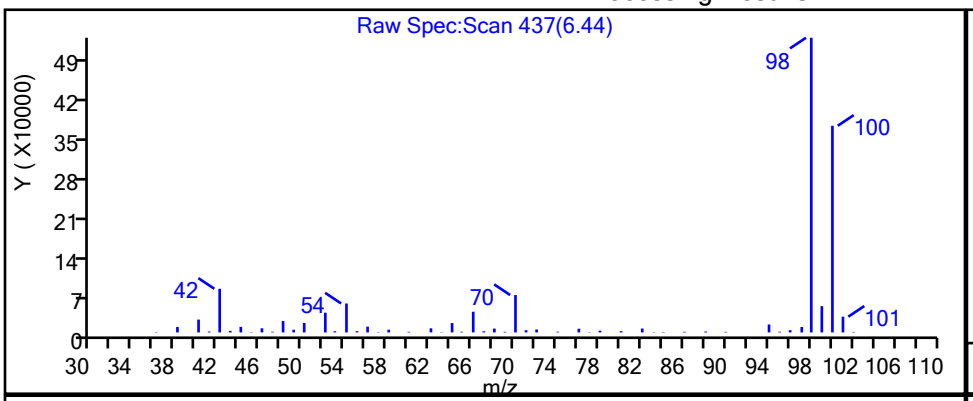
User Disabled Compound Report

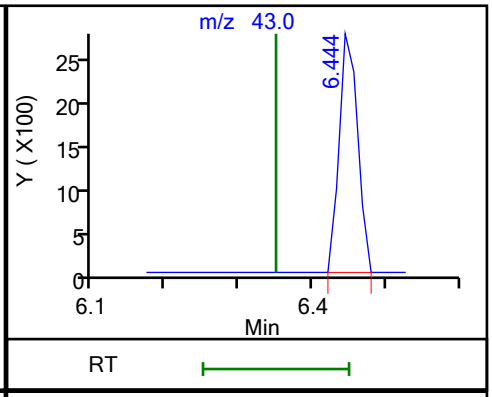
Eurofins TestAmerica, Canton

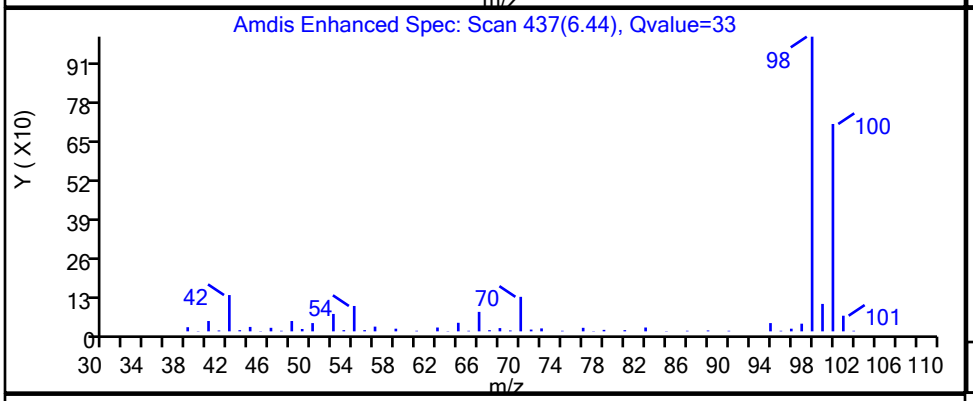
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280899.D				
Injection Date:	30-Sep-2020 02:05:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-31	Lab Sample ID:	240-136984-31		
Client ID:	MSA-SW47A-092220				
Operator ID:	001904	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

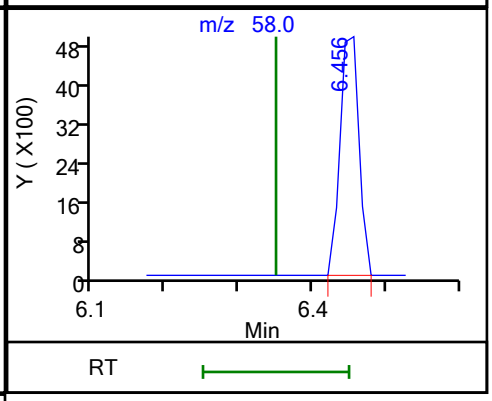
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

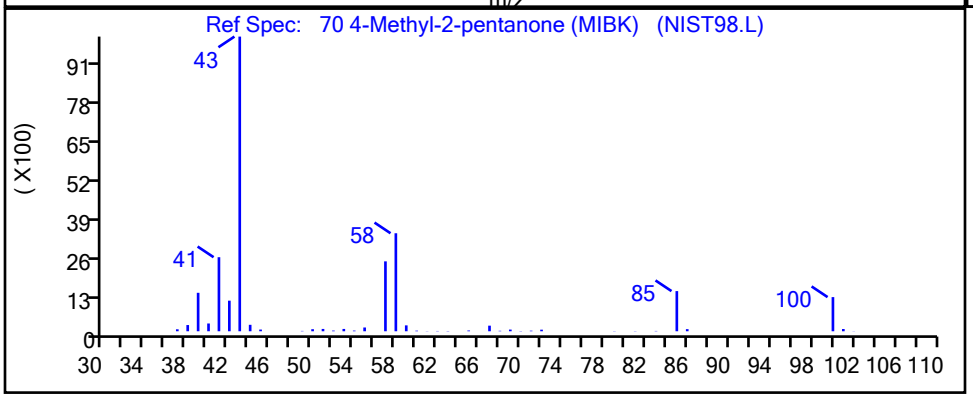
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4859	0.200900
6.46	58.00	8892	

Reviewer: laveyt, 30-Sep-2020 13:57:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW48A-092220 Lab Sample ID: 240-136984-32

Matrix: Water Lab File ID: U1280900.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280900.D
Lims ID: 240-136984-A-32
Client ID: MSA-SW48A-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 02:27:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-027
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:57:43 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:57:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1107222	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	760687	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.001	95	408119	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	260694	17.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	335046	18.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1022671	19.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	365761	20.8	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	96	7488	1.06	
25 Carbon disulfide	76		2.812				ND	7
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

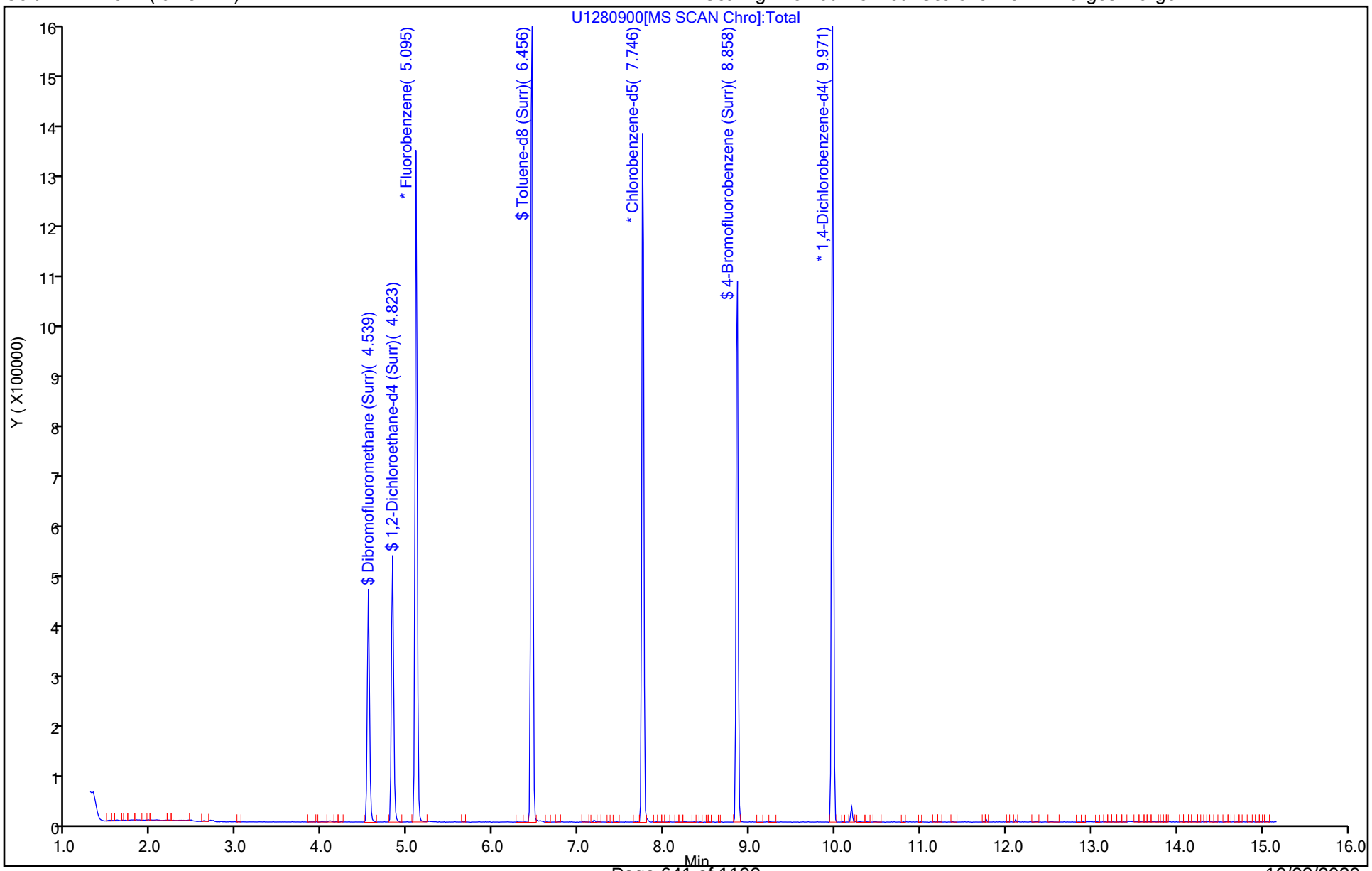
Report Date: 30-Sep-2020 13:57:43 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280900.D

Injection Date:	30-Sep-2020 02:27:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-32	Lab Sample ID:	240-136984-32	Worklist Smp#:	27
Client ID:	MSA-SW48A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280900.D
Lims ID: 240-136984-A-32
Client ID: MSA-SW48A-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 02:27:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-027
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:57:43 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:57:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.7	88.69
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.6	93.14
$ 6 Toluene-d8 (Surr)	20.0	19.9	99.38
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.8	103.82

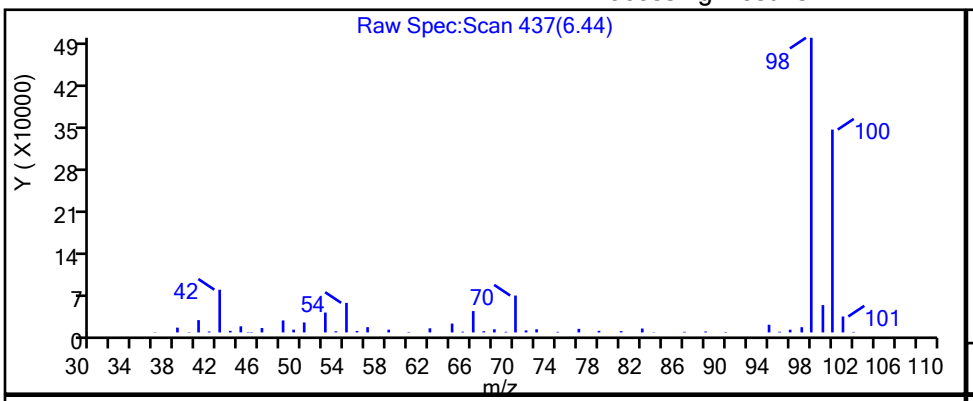
User Disabled Compound Report

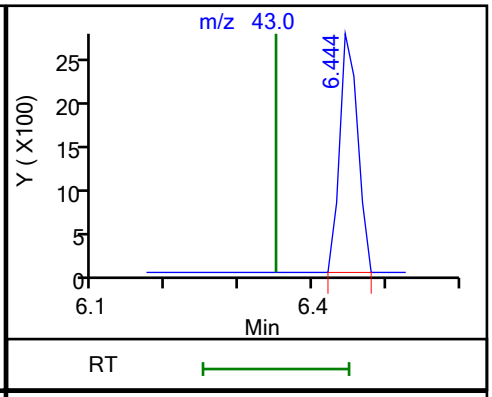
Eurofins TestAmerica, Canton

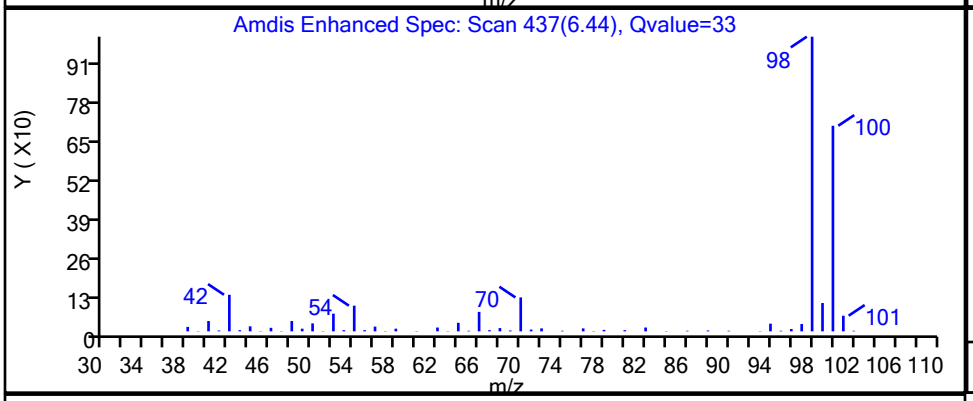
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280900.D				
Injection Date:	30-Sep-2020 02:27:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-32	Lab Sample ID:	240-136984-32		
Client ID:	MSA-SW48A-092220				
Operator ID:	001904	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

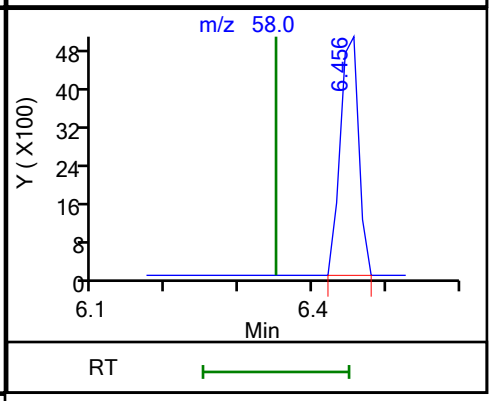
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

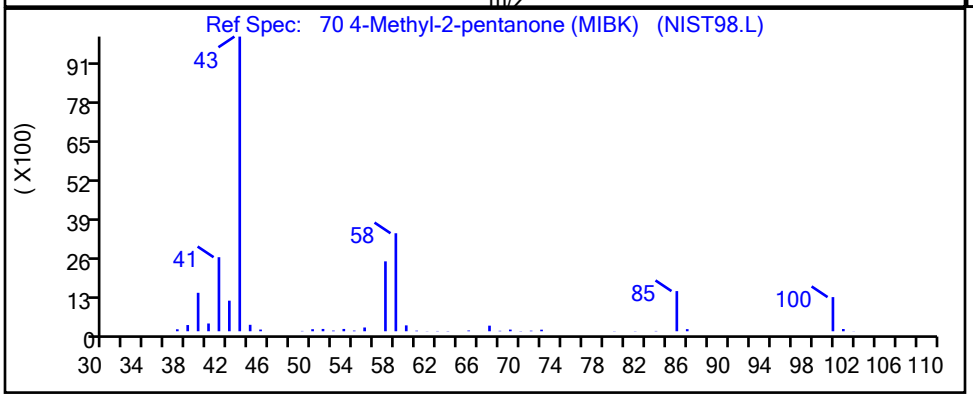
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4682	0.194819
6.46	58.00	8789	

Reviewer: laveyt, 30-Sep-2020 13:57:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: MSA-SW49A-092220 Lab Sample ID: 240-136984-33

Matrix: Water Lab File ID: U1280901.D

Analysis Method: 8260C Date Collected: 09/22/2020 09:06

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 02:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280901.D
Lims ID: 240-136984-A-33
Client ID: MSA-SW49A-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 02:50:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-028
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:58:08 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:58:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1104760	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	758536	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	396855	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	260982	17.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	95	330041	18.4	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1041118	20.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	367586	20.9	
9 Dichlorodifluoromethane	85		1.403				ND	
10 Chloromethane	50		1.628				ND	
12 Vinyl chloride	62		1.687				ND	
14 Bromomethane	94		1.948				ND	
15 Chloroethane	64		1.995				ND	
17 Trichlorofluoromethane	101		2.255				ND	
21 1,1-Dichloroethene	61		2.622				ND	
22 112TCTFE	101		2.670				ND	
23 Acetone	43	2.693	2.681	0.012	96	5852	0.8321	
25 Carbon disulfide	76		2.812				ND	
29 Methylene Chloride	49		3.048				ND	
30 2-Methyl-2-propanol	59		3.167				ND	
32 trans-1,2-Dichloroethene	61		3.285				ND	
33 Methyl tert-butyl ether	73		3.285				ND	
35 1,1-Dichloroethane	63		3.640				ND	
36 Vinyl acetate	43		3.687				ND	
37 Isopropyl ether	87		3.699				ND	
39 Tert-butyl ethyl ether	59		4.007				ND	
40 2,2-Dichloropropane	77		4.125				ND	
41 cis-1,2-Dichloroethene	96		4.137				ND	
42 2-Butanone (MEK)	72		4.149				ND	
46 Chlorobromomethane	49		4.326				ND	
48 Chloroform	83		4.397				ND	
49 1,1,1-Trichloroethane	97		4.551				ND	
51 1,1-Dichloropropene	75		4.681				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
52 Carbon tetrachloride	117		4.693				ND	
54 Benzene	78		4.859				ND	
55 1,2-Dichloroethane	62		4.882				ND	
56 Tert-amyl methyl ether	73		4.953				ND	
59 Trichloroethene	130		5.403				ND	
62 1,2-Dichloropropane	63		5.592				ND	
64 Dibromomethane	174		5.699				ND	
66 Dichlorobromomethane	83		5.829				ND	
68 2-Chloroethyl vinyl ether	63		6.089				ND	
69 cis-1,3-Dichloropropene	75		6.219				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350				ND	U
71 Toluene	91		6.503				ND	
72 trans-1,3-Dichloropropene	75		6.705				ND	
76 Tetrachloroethene	166		7.000				ND	
77 1,3-Dichloropropane	76		7.024				ND	
78 2-Hexanone	43		7.083				ND	7
80 Chlorodibromomethane	129		7.225				ND	
81 Ethylene Dibromide	107		7.332				ND	
83 Chlorobenzene	112		7.781				ND	
84 1,1,1,2-Tetrachloroethane	131		7.852				ND	
85 Ethylbenzene	106		7.876				ND	
86 m-Xylene & p-Xylene	106		7.983				ND	
87 o-Xylene	106		8.361				ND	
88 Styrene	104		8.373				ND	
89 Bromoform	173		8.551				ND	
90 Isopropylbenzene	105		8.704				ND	
93 1,1,2,2-Tetrachloroethane	83		8.988				ND	
92 Bromobenzene	156		9.000				ND	
94 1,2,3-Trichloropropane	110		9.036				ND	
96 N-Propylbenzene	120		9.095				ND	
97 2-Chlorotoluene	126		9.178				ND	
99 4-Chlorotoluene	126		9.284				ND	
102 tert-Butylbenzene	119		9.580				ND	
104 1,2,4-Trimethylbenzene	105		9.627				ND	
105 sec-Butylbenzene	105		9.793				ND	
106 1,3-Dichlorobenzene	146		9.911				ND	
107 4-Isopropyltoluene	119		9.935				ND	
108 1,4-Dichlorobenzene	146		9.994				ND	
109 1,2,3-Trimethylbenzene	105		10.042				ND	
111 n-Butylbenzene	91		10.337				ND	
112 1,2-Dichlorobenzene	146		10.361				ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130				ND	
115 1,2,4-Trichlorobenzene	180		11.947				ND	
116 Hexachlorobutadiene	225		12.124				ND	
117 Naphthalene	128		12.195				ND	
118 1,2,3-Trichlorobenzene	180		12.432				ND	
S 128 Xylenes, Total	106		16.020				ND	
T 129 Chlorodifluoromethane TIC	51		1.250				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

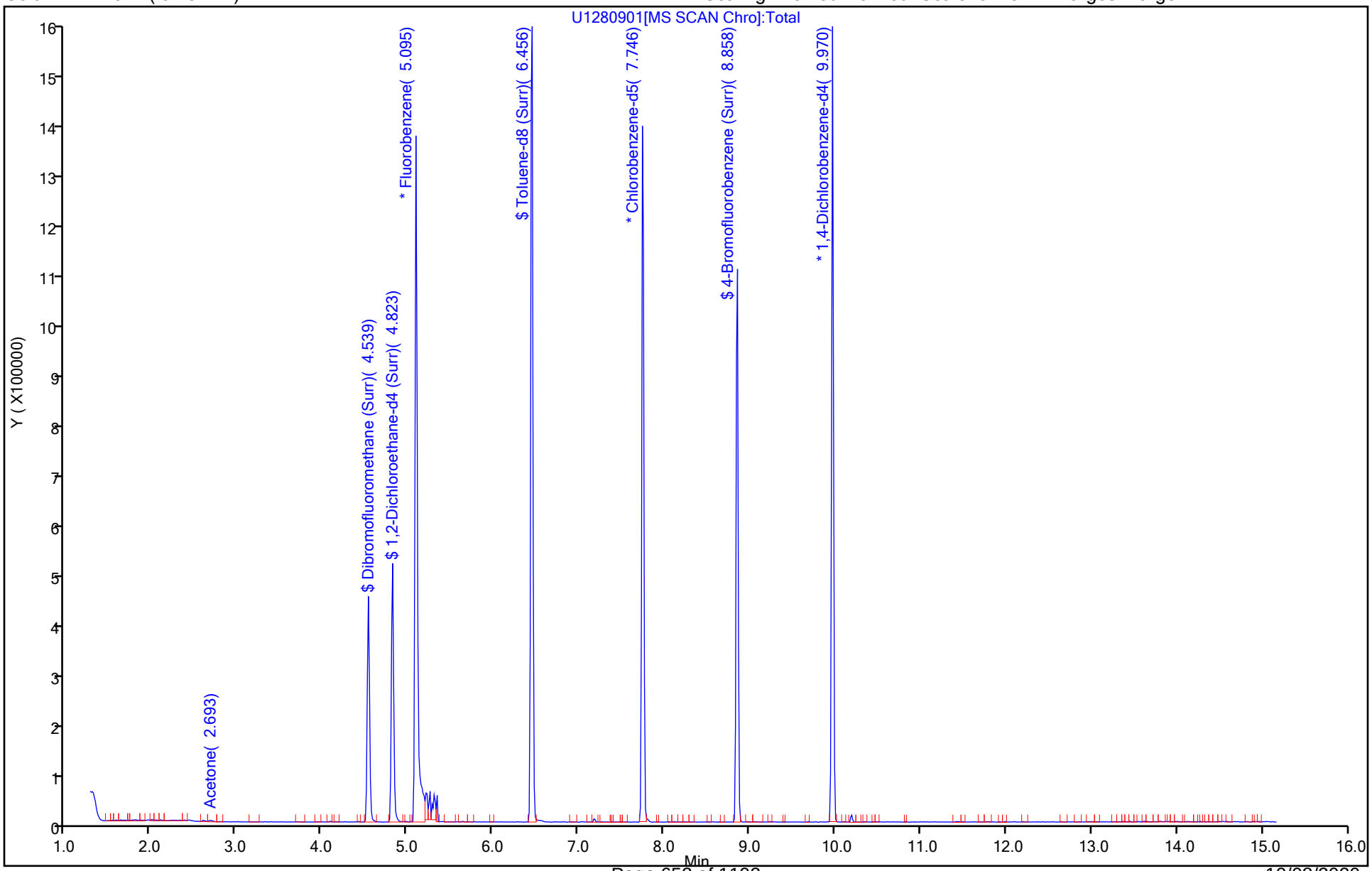
Report Date: 30-Sep-2020 13:58:08 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280901.D

Injection Date:	30-Sep-2020 02:50:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-136984-A-33	Lab Sample ID:	240-136984-33	Worklist Smp#:	28
Client ID:	MSA-SW49A-092220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280901.D
Lims ID: 240-136984-A-33
Client ID: MSA-SW49A-092220
Sample Type: Client
Inject. Date: 30-Sep-2020 02:50:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-028
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 13:58:08 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 13:58:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.8	88.99
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.4	91.95
$ 6 Toluene-d8 (Surr)	20.0	20.3	101.46
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.9	104.63

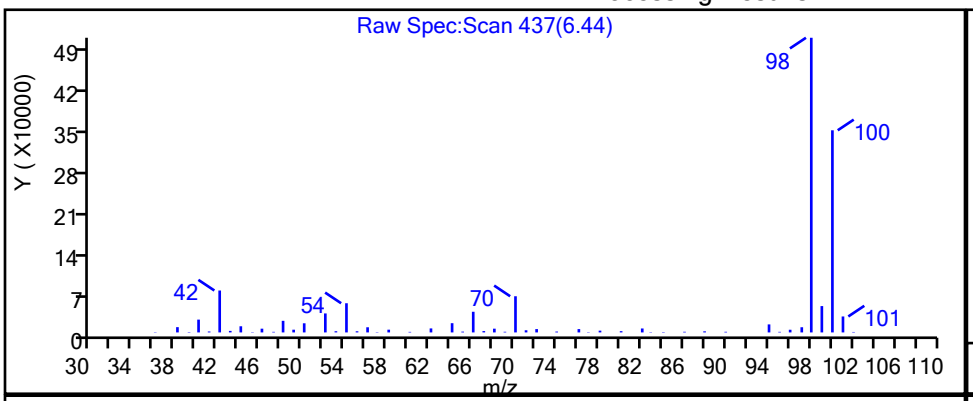
User Disabled Compound Report

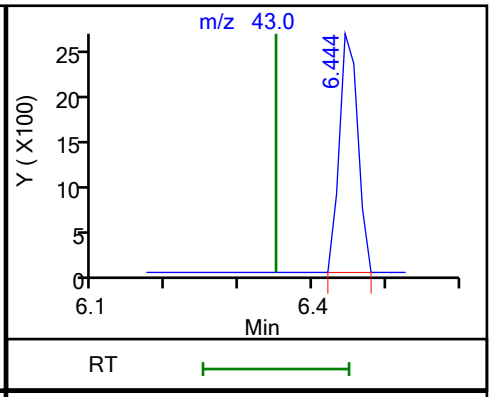
Eurofins TestAmerica, Canton

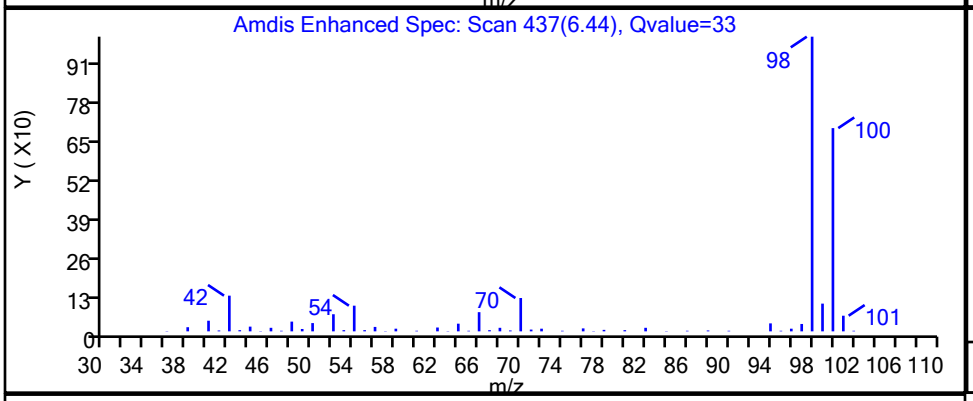
Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280901.D				
Injection Date:	30-Sep-2020 02:50:30	Instrument ID:	A3UX12		
Lims ID:	240-136984-A-33	Lab Sample ID:	240-136984-33		
Client ID:	MSA-SW49A-092220				
Operator ID:	001904	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

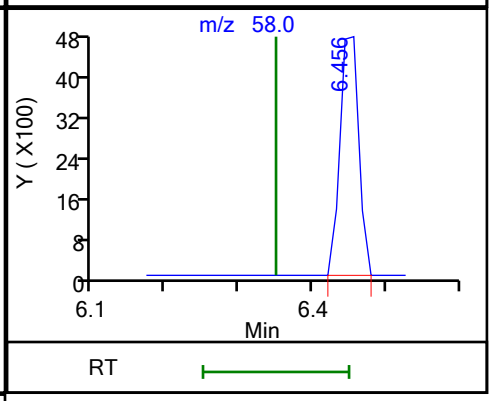
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

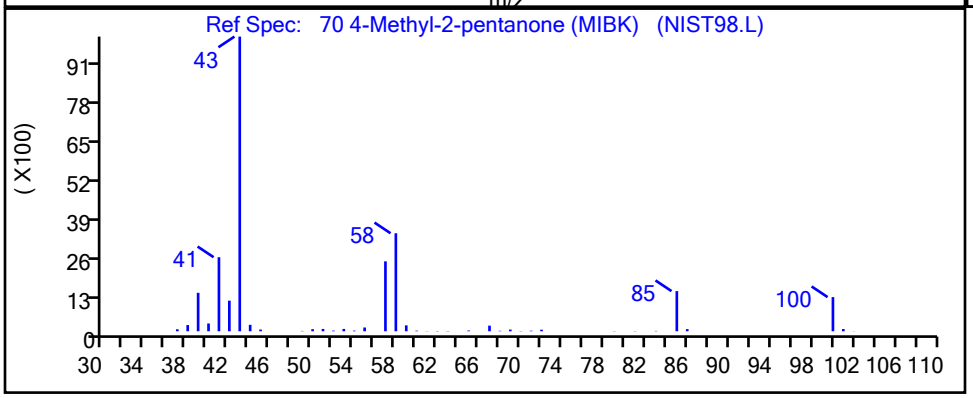
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4631	0.193126
6.46	58.00	8599	

Reviewer: laveyt, 30-Sep-2020 13:57:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-378870/14	U1269801.D
Level 2	STD8260 240-378870/13	U1269800.D
Level 3	STD8260 240-378870/12	U1269799.D
Level 4	ICIS 240-378870/11	U1269798.D
Level 5	STD8260 240-378870/10	U1269797.D
Level 6	STD8260 240-378870/9	U1269796.D
Level 7	STD8260 240-378870/8	U1269795.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3633 0.4173	0.3307 0.4106	0.3625	0.3979	0.4130	Ave		0.3850			0.1000	8.6		20.0			
Chloromethane	+++++ 0.3349	0.3157 0.3582	0.3458	0.3237	0.3462	Ave		0.3374			0.1000	4.7		20.0			
Butadiene	0.3642 0.3859	0.3535 0.3787	0.3596	0.3692	0.3849	Ave		0.3709				3.4		20.0			
Vinyl chloride	0.3531 0.3876	0.3746 0.3870	0.3765	0.3716	0.3891	Ave		0.3771			0.1000	3.4		20.0			
Bromomethane	0.2359 0.2352	0.2527 0.1909	0.2447	0.2332	0.2368	Ave		0.2328			0.0500	8.5		20.0			
Chloroethane	0.2531 0.2446	0.2455 0.2027	0.2395	0.2349	0.2376	Ave		0.2368			0.0500	6.8		20.0			
Dichlorofluoromethane	0.4736 0.4813	0.4798 0.4585	0.4834	0.4616	0.4743	Ave		0.4732				2.1		20.0			
Trichlorofluoromethane	0.4112 0.4427	0.3928 0.4146	0.4217	0.4207	0.4388	Ave		0.4204			0.1000	4.0		20.0			
Ethyl ether	0.2685 0.2474	0.2624 0.2312	0.2543	0.2471	0.2570	Ave		0.2526				4.8		20.0			
Acrolein	0.0778 0.0735	0.0754 +++++	0.0774	0.0729	0.0759	Ave		0.0755				2.7		20.0			
1,1-Dichloroethene	0.4303 0.4053	0.4157 0.4052	0.4117	0.4077	0.4183	Ave		0.4135			0.1000	2.2		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2628 0.2806	0.2614 0.2733	0.2761	0.2772	0.2842	Ave		0.2737			0.0500	3.2		20.0			
Acetone	+++++ 0.1421	0.2958 +++++	0.1578	0.1420	0.1462	Lin1	0.3105	0.1398			0.0100	2.7			1.0000		0.9900
Iodomethane	0.4620 0.4312	0.4507 0.4253	0.4283	0.4317	0.4473	Ave		0.4395				3.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	1.1582 0.8815	1.0493 0.8578	0.9096	0.8961	0.9091	Ave		0.9516			0.1000	11.6		20.0			
3-Chloro-1-propene	0.5306 0.4520	0.4842 0.4523	0.4599	0.4492	0.4714	Ave		0.4714				6.1		20.0			
Methyl acetate	0.3734 0.3369	0.3585 +++++	0.3445	0.3309	0.3439	Ave		0.3480			0.1000	4.4		20.0			
Methylene Chloride	+++++ 0.3493	1.2721 0.3463	0.4243	0.3723	0.3728	Lin1	0.9295	0.3363			0.1000	2.8			1.0000		0.9900
2-Methyl-2-propanol	0.0805 0.0680	0.0761 +++++	0.0730	0.0700	0.0718	Ave		0.0732				6.1		20.0			
Acrylonitrile	0.1960 0.1727	0.1891 +++++	0.1798	0.1713	0.1778	Ave		0.1811				5.3		20.0			
trans-1,2-Dichloroethene	0.4388 0.3861	0.4327 0.3845	0.4006	0.3951	0.4062	Ave		0.4063			0.1000	5.3		20.0			
Methyl tert-butyl ether	0.8683 0.8061	0.8857 0.7696	0.8607	0.8334	0.8545	Ave		0.8398			0.1000	4.8		20.0			
Hexane	0.4565 0.4534	0.4143 0.4249	0.4503	0.4473	0.4579	Ave		0.4435				3.8		20.0			
1,1-Dichloroethane	0.5177 0.4943	0.5212 0.4907	0.5091	0.4989	0.5149	Ave		0.5067			0.2000	2.4		20.0			
Vinyl acetate	0.5580 0.5787	0.5728 +++++	0.5589	0.5619	0.5864	Ave		0.5694				2.1		20.0			
2,2-Dichloropropane	0.3469 0.3079	0.3283 0.3227	0.3273	0.3311	0.3375	Ave		0.3288				3.7		20.0			
cis-1,2-Dichloroethene	0.3560 0.3343	0.3649 0.3316	0.3413	0.3352	0.3475	Ave		0.3444			0.1000	3.6		20.0			
2-Butanone (MEK)	0.0615 0.0642	0.0597 +++++	0.0632	0.0607	0.0645	Ave		0.0623			0.0100	3.2		20.0			
Chlorobromomethane	0.2785 0.2285	0.2509 0.2244	0.2357	0.2316	0.2400	Ave		0.2413				7.7		20.0			
Tetrahydrofuran	0.1604 0.1508	0.1429 +++++	0.1501	0.1446	0.1514	Ave		0.1500				4.1		20.0			
Chloroform	0.5004 0.4703	0.4870 0.4731	0.4836	0.4829	0.4938	Ave		0.4844			0.2000	2.2		20.0			
1,1,1-Trichloroethane	0.3922 0.4192	0.4015 0.4179	0.4170	0.4276	0.4345	Ave		0.4157			0.1000	3.5		20.0			
Cyclohexane	0.5033 0.5135	0.4858 0.4766	0.5239	0.5157	0.5153	Ave		0.5049			0.1000	3.5		20.0			
1,1-Dichloropropene	0.4381 0.4050	0.4072 0.3945	0.4119	0.4049	0.4145	Ave		0.4109				3.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.3547 0.3535	0.3314 0.3513	0.3425	0.3636	0.3768	Ave		0.3534			0.1000	4.1		20.0			
Isobutyl alcohol	0.0214 0.0190	0.0189 +++++	0.0202	0.0197	0.0201	Ave		0.0199				4.6		20.0			
Benzene	1.2351 1.1561	1.2006 1.1376	1.1748	1.1526	1.1878	Ave		1.1778			0.5000	2.8		20.0			
1,2-Dichloroethane	0.3915 0.3540	0.3893 0.3393	0.3455	0.3539	0.3641	Ave		0.3625			0.1000	5.7		20.0			
n-Heptane	+++++ 0.2241	0.8189 0.2083	0.2765	0.2406	0.2291	Lin1	0.6210	0.2083				3.9			0.9990		0.9900
Trichloroethene	0.3459 0.3108	0.3166 0.3021	0.3026	0.3105	0.3179	Ave		0.3152			0.1500	4.7		20.0			
Methylcyclohexane	0.5757 0.5798	0.5136 0.5210	0.5842	0.5782	0.5985	Ave		0.5644			0.1000	5.9		20.0			
1,2-Dichloropropane	0.2504 0.2495	0.2406 0.2466	0.2499	0.2468	0.2580	Ave		0.2488			0.1000	2.1		20.0			
Dibromomethane	0.2511 0.2018	0.2266 0.1879	0.1970	0.2002	0.2123	Ave		0.2110				10.2		20.0			
1,4-Dioxane	0.0035 0.0040	0.0034 0.0038	0.0047	0.0044	0.0043	Ave		0.0040				12.1		20.0			
Dichlorobromomethane	0.3369 0.3474	0.3224 0.3346	0.3359	0.3412	0.3584	Ave		0.3396			0.1500	3.3		20.0			
2-Chloroethyl vinyl ether	0.1875 0.1911	0.1776 0.1507	0.1862	0.1818	0.1895	Ave		0.1806				7.7		20.0			
cis-1,3-Dichloropropene	0.4366 0.4171	0.4107 0.3952	0.4011	0.4068	0.4265	Ave		0.4134			0.1500	3.5		20.0			
4-Methyl-2-pentanone (MIBK)	0.3839 0.3806	0.3808 +++++	0.3872	0.3769	0.3911	Ave		0.3834			0.0500	1.3		20.0			
Toluene	1.8023 1.6267	1.6891 1.6145	1.6659	1.6181	1.7001	Ave		1.6738			0.4000	4.0		20.0			
trans-1,3-Dichloropropene	0.5769 0.5343	0.5645 0.5065	0.5263	0.5262	0.5576	Ave		0.5418			0.1000	4.6		20.0			
Ethyl methacrylate	0.5226 0.5394	0.4946 0.4478	0.5518	0.5362	0.5613	Ave		0.5220				7.5		20.0			
1,1,2-Trichloroethane	0.3778 0.3286	0.3178 0.3033	0.3333	0.3248	0.3429	Ave		0.3327			0.1000	7.1		20.0			
Tetrachloroethene	0.4570 0.4417	0.4243 0.4396	0.4476	0.4415	0.4623	Ave		0.4449			0.1500	2.8		20.0			
1,3-Dichloropropane	0.6595 0.5804	0.5855 0.5367	0.5879	0.5738	0.6044	Ave		0.5898				6.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4148 0.3823	0.3921 +++++	0.4171	0.3943	0.3992	Ave		0.4000			0.0500	3.4		20.0			
Chlorodibromomethane	0.3436 0.3509	0.3261 0.3352	0.3393	0.3492	0.3738	Ave		0.3454				4.4		20.0			
Ethylene Dibromide	0.3803 0.3593	0.3661 0.3178	0.3511	0.3562	0.3736	Ave		0.3578				5.7		20.0			
Chlorobenzene	1.1917 1.0431	1.0788 1.0358	1.0620	1.0437	1.1063	Ave		1.0802			0.3000	5.1		20.0			
1,1,1,2-Tetrachloroethane	0.3770 0.3768	0.3617 0.3870	0.3721	0.3706	0.3978	Ave		0.3776				3.1		20.0			
Ethylbenzene	0.6003 0.5897	0.5954 0.5969	0.6098	0.5997	0.6287	Ave		0.6029				2.1		20.0			
m-Xylene & p-Xylene	0.7152 0.7393	0.7520 0.7353	0.7549	0.7557	0.7836	Ave		0.7480				2.8		20.0			
o-Xylene	0.7592 0.7370	0.7654 0.7387	0.7487	0.7584	0.7848	Ave		0.7560				2.2		20.0			
Styrene	1.2553 1.2064	1.1402 1.1932	1.2030	1.2192	1.2715	Ave		1.2127			0.3000	3.5		20.0			
Bromoform	0.2213 0.2662	0.2350 0.2312	0.2485	0.2670	0.2802	Ave		0.2499			0.1000	8.7		20.0			
Isopropylbenzene	1.9470 1.9256	1.9183 1.9274	2.0090	1.9856	2.0675	Ave		1.9686			0.1000	2.8		20.0			
1,1,2,2-Tetrachloroethane	0.9347 1.0089	0.9925 0.8398	1.0421	1.0190	1.0529	Ave		0.9843			0.3000	7.6		20.0			
Bromobenzene	0.9090 0.8447	0.8758 0.8518	0.8455	0.8624	0.8771	Ave		0.8666				2.6		20.0			
1,2,3-Trichloropropane	0.3616 0.3604	0.3856 +++++	0.3726	0.3724	0.3827	Ave		0.3726				2.8		20.0			
trans-1,4-Dichloro-2-butene	0.3307 0.3153	0.3082 +++++	0.3131	0.3186	0.3275	Ave		0.3189				2.7		20.0			
N-Propylbenzene	0.9647 0.9889	0.9069 0.9978	0.9987	1.0115	1.0363	Ave		0.9864				4.2		20.0			
2-Chlorotoluene	0.8029 0.8162	0.7917 0.8480	0.8225	0.8298	0.8726	Ave		0.8263				3.3		20.0			
1,3,5-Trimethylbenzene	2.7098 2.8199	2.6571 2.8891	2.8991	2.9082	3.0109	Ave		2.8420				4.3		20.0			
4-Chlorotoluene	0.8644 0.8286	0.8857 0.8408	0.8361	0.8393	0.8746	Ave		0.8528				2.6		20.0			
tert-Butylbenzene	2.4839 2.5923	2.3390 2.6462	2.6216	2.6249	2.7660	Ave		2.5820				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.9044 2.8957	2.7731 2.9649	2.9896	2.9855	3.0915	Ave		2.9435				3.4		20.0			
sec-Butylbenzene	3.4931 3.7070	3.4481 3.7162	3.8562	3.8180	3.9769	Ave		3.7165				5.1		20.0			
1,3-Dichlorobenzene	1.8530 1.6328	1.7598 1.6496	1.6537	1.6730	1.7292	Ave		1.7073			0.6000	4.6		20.0			
4-Isopropyltoluene	2.9898 3.1812	3.0425 3.2731	3.2720	3.2957	3.4448	Ave		3.2142				4.9		20.0			
1,4-Dichlorobenzene	1.9866 1.6505	1.8499 1.6771	1.6636	1.7046	1.7595	Ave		1.7560			0.5000	7.0		20.0			
n-Butylbenzene	2.5658 2.7237	2.6277 2.8018	2.7646	2.7987	2.9054	Ave		2.7411				4.2		20.0			
1,2-Dichlorobenzene	1.8655 1.5698	1.6719 1.6169	1.5834	1.6103	1.6665	Ave		1.6549			0.4000	6.1		20.0			
1,2-Dibromo-3-Chloropropane	0.3275 0.3332	0.2864 +++++	0.3130	0.3187	0.3491	Ave		0.3213			0.0500	6.6		20.0			
1,2,4-Trichlorobenzene	1.2956 1.0915	1.2328 1.2075	1.0259	1.0636	1.1751	Ave		1.1560			0.2000	8.5		20.0			
Hexachlorobutadiene	0.5365 0.4716	0.6238 0.5042	0.4510	0.4832	0.5034	Ave		0.5105				11.1		20.0			
Naphthalene	3.8848 3.4986	3.9098 3.2717	3.4440	3.5237	3.8266	Ave		3.6227				6.9		20.0			
1,2,3-Trichlorobenzene	1.2332 0.9963	1.1549 1.1194	0.9312	0.9820	1.0736	Ave		1.0701				10.0		20.0			
Dibromofluoromethane (Surr)	+++++ 0.2632	0.2807 0.2572	0.2551	0.2667	0.2730	Ave		0.2660				3.6		20.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2956	0.3370 0.2788	0.2849	0.2939	0.3026	Ave		0.2988				6.9		20.0			
Toluene-d8 (Surr)	+++++ 1.3548	1.6210 1.3318	1.3946	1.3817	1.4168	Ave		1.4168				7.4		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.4999	0.6202 0.4892	0.5085	0.4983	0.5153	Ave		0.5219				9.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-378870/14	U1269801.D
Level 2	STD8260 240-378870/13	U1269800.D
Level 3	STD8260 240-378870/12	U1269799.D
Level 4	ICIS 240-378870/11	U1269798.D
Level 5	STD8260 240-378870/10	U1269797.D
Level 6	STD8260 240-378870/9	U1269796.D
Level 7	STD8260 240-378870/8	U1269795.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	11044 1567191	19984 2052069	224597	496091	1030351	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	+++++ 1257715	19082 1789816	214265	403612	863765	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	11073 1449292	21365 1892418	222795	460371	960327	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	10733 1455844	22643 1934142	233314	463335	970649	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	7170 883232	15275 953805	151619	290732	590824	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloroethane	FB	Ave	7695 918797	14836 1012997	148379	292854	592754	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	14396 1807740	29001 2290963	299518	575498	1183160	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	12502 1662729	23742 2071934	261265	524611	1094737	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	8163 929149	15857 1155554	157567	308106	641131	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	11833 1380457	22786 +++++	239777	454386	946268	2.50 300	5.00 +++++	50.0	100	200
1,1-Dichloroethene	FB	Ave	13081 1522285	25123 2024854	255094	508373	1043595	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	7988 1054000	15799 1365935	171045	345600	708990	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Lin1	+++++ 1067191	35750 +++++	195589	354093	729471	+++++ 120	2.00 +++++	20.0	40.0	80.0
Iodomethane	FB	Ave	14045 1619670	27241 2125484	265387	538227	1115860	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	35208 3310792	63418 4286373	563594	1117299	2267883	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
3-Chloro-1-propene	FB	Ave	16129 1697487	29262 2260088	284969	560067	1176034	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl acetate	FB	Ave	22700 2530486	43336 +++++	426943	825132	1715851	1.00 120	2.00 +++++	20.0	40.0	80.0
Methylene Chloride	FB	Lin1	+++++ 1311846	76885 1730659	262888	464186	930086	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
2-Methyl-2-propanol	FB	Ave	24459 2552659	46009 +++++	452013	872907	1790088	5.00 600	10.0 +++++	100	200	400
Acrylonitrile	FB	Ave	59579 6486159	114297 +++++	1113771	2135420	4436089	5.00 600	10.0 +++++	100	200	400
trans-1,2-Dichloroethene	FB	Ave	13341 1450217	26151 1921542	248232	492658	1013326	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl tert-butyl ether	FB	Ave	26396 3027404	53530 3846016	533312	1039087	2131851	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	13878 1702774	25038 2123105	279012	557732	1142313	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	15738 1856520	31501 2451944	315456	622049	1284657	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl acetate	FB	Ave	16963 2173371	34619 +++++	346293	700651	1462850	0.500 60.0	1.00 +++++	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	10546 1156337	19842 1612711	202782	412857	841953	0.500 60.0	1.00 80.0	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	10822 1255612	22054 1657053	211496	417933	866934	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	3739 482200	7212 +++++	78345	151425	322049	1.00 120	2.00 +++++	20.0	40.0	80.0
Chlorobromomethane	FB	Ave	8465 858112	15161 1121143	146065	288735	598675	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Ave	9753 1132369	17279 +++++	185955	360495	755334	1.00 120	2.00 +++++	20.0	40.0	80.0
Chloroform	FB	Ave	15213 1766502	29434 2363996	299618	602114	1231881	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	11924 1574408	24264 2088351	258363	533200	1083939	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	15299 1928649	29359 2381579	324586	642956	1285622	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	13318 1521069	24613 1971517	255221	504905	1034085	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	10783 1327796	20029 1755611	212237	453383	940122	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	16262 1784970	28500 +++++	312412	615511	1254651	12.5 1500	25.0 +++++	250	500	1000

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	37546 4341955	72564 5684570	727951	1437120	2963156	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	11902 1329568	23529 1695389	214099	441298	908435	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	+++++ 841832	49490 1041160	171315	299975	571599	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Trichloroethene	FB	Ave	10516 1167306	19135 1509661	187506	387176	793097	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	17502 2177617	31043 2603437	361953	720921	1493017	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	7613 937223	14544 1232396	154817	307704	643520	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromomethane	FB	Ave	7633 757811	13696 938835	122075	249664	529643	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	2151 298901	4063 374894	58179	110260	212766	10.0 1200	20.0 1600	200	400	800
Dichlorobromomethane	FB	Ave	10242 1304681	19488 1672281	208118	425494	894000	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	11398 1435551	21468 1506274	230721	453314	945507	1.00 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	13273 1566673	24819 1974815	248543	507172	1063891	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	23343 2858560	46025 +++++	479830	939875	1951525	1.00 120	2.00 +++++	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	36733 4263658	69512 5446274	693965	1384009	2883485	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	11758 1400355	23230 1708636	219235	450107	945703	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	10652 1413898	20354 1510478	229870	458650	952052	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	7700 861361	13079 1023274	138863	277803	581540	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	9314 1157587	17463 1482922	186459	377626	784044	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	13441 1521180	24096 1810575	244890	490824	1025142	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	16906 2004012	32274 +++++	347483	674546	1354308	1.00 120	2.00 +++++	20.0	40.0	80.0
Chlorodibromomethane	CBNZ d5	Ave	7003 919717	13420 1130859	141322	298689	633936	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylene Dibromide	CBNZ d5	Ave	7750 941630	15068 1071876	146267	304693	633639	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	24288 2734043	44396 3494036	442384	892667	1876430	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	7683 987481	14884 1305612	154999	316979	674622	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	12234 1545630	24504 2013623	254036	512928	1066262	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	14577 1937780	30946 2480479	314453	646378	1329053	0.500 60.0	1.00 80.0	10.0	20.0	40.0
o-Xylene	CBNZ d5	Ave	15474 1931683	31499 2491810	311889	648657	1331003	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Styrene	CBNZ d5	Ave	25585 3161922	46924 4024869	501125	1042824	2156541	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromoform	CBNZ d5	Ave	4510 697809	9669 780055	103500	228364	475190	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	39682 5047046	78943 6501576	836910	1698359	3506656	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	10861 1444688	23506 1530842	237420	473524	982071	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromobenzene	DCBd 4	Ave	10562 1209647	20743 1552619	192642	400745	818090	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	4202 516092	9133 +++++	84888	173052	356976	0.500 60.0	1.00 +++++	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	3843 451551	7300 +++++	71337	148061	305416	0.500 60.0	1.00 +++++	10.0	20.0	40.0
N-Propylbenzene	DCBd 4	Ave	11209 1416141	21478 1818752	227545	470058	966595	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	9330 1168744	18750 1545785	187392	385627	813877	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	31487 4038075	62930 5266204	660502	1351432	2808258	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	10044 1186575	20976 1532612	190484	390042	815761	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butylbenzene	DCBd 4	Ave	28862 3712091	55395 4823562	597272	1219799	2579873	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	33748 4146548	65676 5404391	681127	1387358	2883392	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	40589 5308368	81663 6773871	878572	1774243	3709245	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	21531 2338079	41679 3006850	376754	777449	1612862	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Isopropyltoluene	DCBd 4	Ave	34741 4555449	72056 5966210	745472	1531521	3212945	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	23084 2363448	43811 3056952	379011	792152	1641044	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	29814 3900305	62232 5107201	629870	1300578	2709817	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	21676 2247875	39597 2947208	360738	748334	1554362	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	3806 477069	6783 +++++	71305	148124	325575	0.500 60.0	1.00 +++++	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	15055 1562937	29197 2200965	233740	494279	1096024	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	6234 675267	14773 918998	102755	224541	469488	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	45140 5009873	92597 5963618	784648	1637491	3569051	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	14329 1426661	27351 2040460	212164	456339	1001370	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 988457	16968 1285236	158064	332600	680998	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1110364	20365 1393127	176503	366398	754824	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 3550979	66709 4492583	580962	1181805	2403057	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 1310206	25525 1650135	211821	426237	874019	+++++ 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 14:10 Calibration End Date: 04/30/2019 16:24 Calibration ID: 50823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-378870/14	U1269801.D
Level 2	STD8260 240-378870/13	U1269800.D
Level 3	STD8260 240-378870/12	U1269799.D
Level 4	ICIS 240-378870/11	U1269798.D
Level 5	STD8260 240-378870/10	U1269797.D
Level 6	STD8260 240-378870/9	U1269796.D
Level 7	STD8260 240-378870/8	U1269795.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetone	+++++ +++++	0.5						50				
Methylene Chloride	+++++	1.9						50				
n-Heptane	+++++	-5.0						50				

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Apr-2019 14:10:30 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-008
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Apr-2019 17:22:02 Calib Date: 30-Apr-2019 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0333

First Level Reviewer: laveyt Date: 30-Apr-2019 14:37:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1249296	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	83	843322	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	90	455702	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	95	1285236	80.0	77.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	96	1393127	80.0	74.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	4492583	80.0	75.2	
$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	94	1650135	80.0	75.0	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	2052069	80.0	85.3	
10 Chloromethane	50	1.581	1.581	0.000	98	1789816	80.0	84.9	
11 Butadiene	54	1.640	1.640	0.000	88	1892418	80.0	81.7	
12 Vinyl chloride	62	1.664	1.675	-0.011	98	1934142	80.0	82.1	
14 Bromomethane	94	1.888	1.912	-0.024	90	953805	80.0	65.6	
15 Chloroethane	64	1.971	1.995	-0.024	99	1012997	80.0	68.5	
16 Dichlorofluoromethane	67	2.161	2.172	-0.011	97	2290963	80.0	77.5	
17 Trichlorofluoromethane	101	2.208	2.220	-0.012	99	2071934	80.0	78.9	
19 Ethyl ether	59	2.433	2.433	0.000	89	1155554	80.0	73.2	
20 Acrolein	56		2.551				ND	ND	U
21 1,1-Dichloroethene	61	2.622	2.634	-0.012	98	2024854	80.0	78.4	
22 1,1,2-Trichloro-1,2,2-trif	101	2.658	2.669	-0.011	93	1365935	80.0	79.9	
23 Acetone	43		2.693				ND	ND	U
24 Iodomethane	142	2.764	2.764	0.000	97	2125484	80.0	77.4	
25 Carbon disulfide	76	2.811	2.823	-0.012	99	4286373	80.0	72.1	
27 3-Chloro-1-propene	41	2.942	2.953	-0.011	93	2260088	80.0	76.8	
28 Methyl acetate	43		2.977				ND	ND	U
29 Methylene Chloride	49	3.048	3.060	-0.012	90	1730659	80.0	79.6	
30 2-Methyl-2-propanol	59		3.166				ND	ND	U
31 Acrylonitrile	53		3.273				ND	ND	U
32 trans-1,2-Dichloroethene	61	3.285	3.285	0.000	98	1921542	80.0	75.7	
33 Methyl tert-butyl ether	73	3.297	3.285	0.011	94	3846016	80.0	73.3	
34 Hexane	57	3.510	3.510	0.000	90	2123105	80.0	76.6	
35 1,1-Dichloroethane	63	3.651	3.652	-0.001	96	2451944	80.0	77.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43		3.687				ND	ND	U
41 2,2-Dichloropropane	77	4.137	4.137	0.000	60	1612711	80.0	78.5	
40 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	81	1657053	80.0	77.0	
42 2-Butanone (MEK)	72		4.149				ND	ND	U
46 Chlorobromomethane	49	4.338	4.338	0.000	94	1121143	80.0	74.4	
47 Tetrahydrofuran	42		4.373				ND	ND	U
48 Chloroform	83	4.397	4.397	0.000	93	2363996	80.0	78.1	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	2088351	80.0	80.4	
50 Cyclohexane	84	4.598	4.598	0.000	90	2381579	80.0	75.5	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	96	1971517	80.0	76.8	
52 Carbon tetrachloride	117	4.693	4.693	0.000	79	1755611	80.0	79.5	
53 Isobutyl alcohol	41		4.788				ND	ND	U
54 Benzene	78	4.870	4.870	0.000	96	5684570	80.0	77.3	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	1695389	80.0	74.9	
57 n-Heptane	57	5.071	5.071	0.000	90	1041160	80.0	77.0	
59 Trichloroethene	130	5.403	5.403	0.000	98	1509661	80.0	76.7	
61 Methylcyclohexane	83	5.568	5.568	0.000	86	2603437	80.0	73.8	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	93	1232396	80.0	79.3	
64 Dibromomethane	174	5.710	5.710	0.000	93	938835	80.0	71.2	
65 1,4-Dioxane	88	5.722	5.722	0.000	92	374894	1600.0	1499.9	
66 Dichlorobromomethane	83	5.829	5.829	0.000	100	1672281	80.0	78.8	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	1506274	160.0	133.5	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	97	1974815	80.0	76.5	
70 4-Methyl-2-pentanone (MIBK	43		6.349				ND	ND	U
71 Toluene	91	6.515	6.515	0.000	99	5446274	80.0	77.2	
72 trans-1,3-Dichloropropene	75	6.704	6.704	0.000	92	1708636	80.0	74.8	
74 Ethyl methacrylate	69	6.775	6.775	0.000	89	1510478	80.0	68.6	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	90	1023274	80.0	73.0	
76 Tetrachloroethene	166	7.000	7.000	0.000	96	1482922	80.0	79.1	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	88	1810575	80.0	72.8	
78 2-Hexanone	43		7.095				ND	ND	U
80 Chlorodibromomethane	129	7.225	7.225	0.000	90	1130859	80.0	77.6	
81 Ethylene Dibromide	107	7.332	7.332	0.000	99	1071876	80.0	71.1	
83 Chlorobenzene	112	7.781	7.781	0.000	95	3494036	80.0	76.7	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	1305612	80.0	82.0	
85 Ethylbenzene	106	7.876	7.876	0.000	98	2013623	80.0	79.2	
86 m-Xylene & p-Xylene	106	7.982	7.982	0.000	99	2480479	80.0	78.6	
87 o-Xylene	106	8.361	8.361	0.000	95	2491810	80.0	78.2	
88 Styrene	104	8.373	8.373	0.000	94	4024869	80.0	78.7	
89 Bromoform	173	8.550	8.550	0.000	98	780055	80.0	74.0	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	6501576	80.0	78.3	
92 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	79	1530842	80.0	68.3	
93 Bromobenzene	156	9.000	9.000	0.000	89	1552619	80.0	78.6	
95 1,2,3-Trichloropropane	110		9.047				ND	ND	U
94 trans-1,4-Dichloro-2-buten	53		9.047				ND	ND	U
96 N-Propylbenzene	120	9.106	9.107	-0.001	98	1818752	80.0	80.9	
97 2-Chlorotoluene	126	9.189	9.189	0.000	97	1545785	80.0	82.1	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	5266204	80.0	81.3	
99 4-Chlorotoluene	126	9.296	9.296	0.000	99	1532612	80.0	78.9	
102 tert-Butylbenzene	119	9.592	9.592	0.000	91	4823562	80.0	82.0	
104 1,2,4-Trimethylbenzene	105	9.639	9.639	0.000	96	5404391	80.0	80.6	
105 sec-Butylbenzene	105	9.805	9.805	0.000	94	6773871	80.0	80.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	3006850	80.0	77.3	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	5966210	80.0	81.5	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	3056952	80.0	76.4	
111 n-Butylbenzene	91	10.349	10.349	0.000	96	5107201	80.0	81.8	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	2947208	80.0	78.2	
113 1,2-Dibromo-3-Chloropropan	157		11.142				ND	ND	U
115 1,2,4-Trichlorobenzene	180	11.958	11.946	0.012	94	2200965	80.0	83.6	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	918998	80.0	79.0	
117 Naphthalene	128	12.195	12.195	0.000	97	5963618	80.0	72.2	
118 1,2,3-Trichlorobenzene	180	12.443	12.443	0.000	96	2040460	80.0	83.7	
S 124 Trihalomethanes, Total	1				0		320.0	308.6	
S 125 Total BTEX	1				0		400.0	390.4	
S 126 1,2-Dichloroethene, Total	96				0			152.7	
S 127 1,3-Dichloropropene, Total	75				0			151.3	
S 128 Xylenes, Total	106				0		160.0	156.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00003	Amount Added:	2.00	Units: uL
vmrgas_00291	Amount Added:	64.00	Units: uL
vm50ss_00362	Amount Added:	64.00	Units: uL
vmarolistdw_00294	Amount Added:	64.00	Units: uL
vmrprimw_00331	Amount Added:	64.00	Units: uL

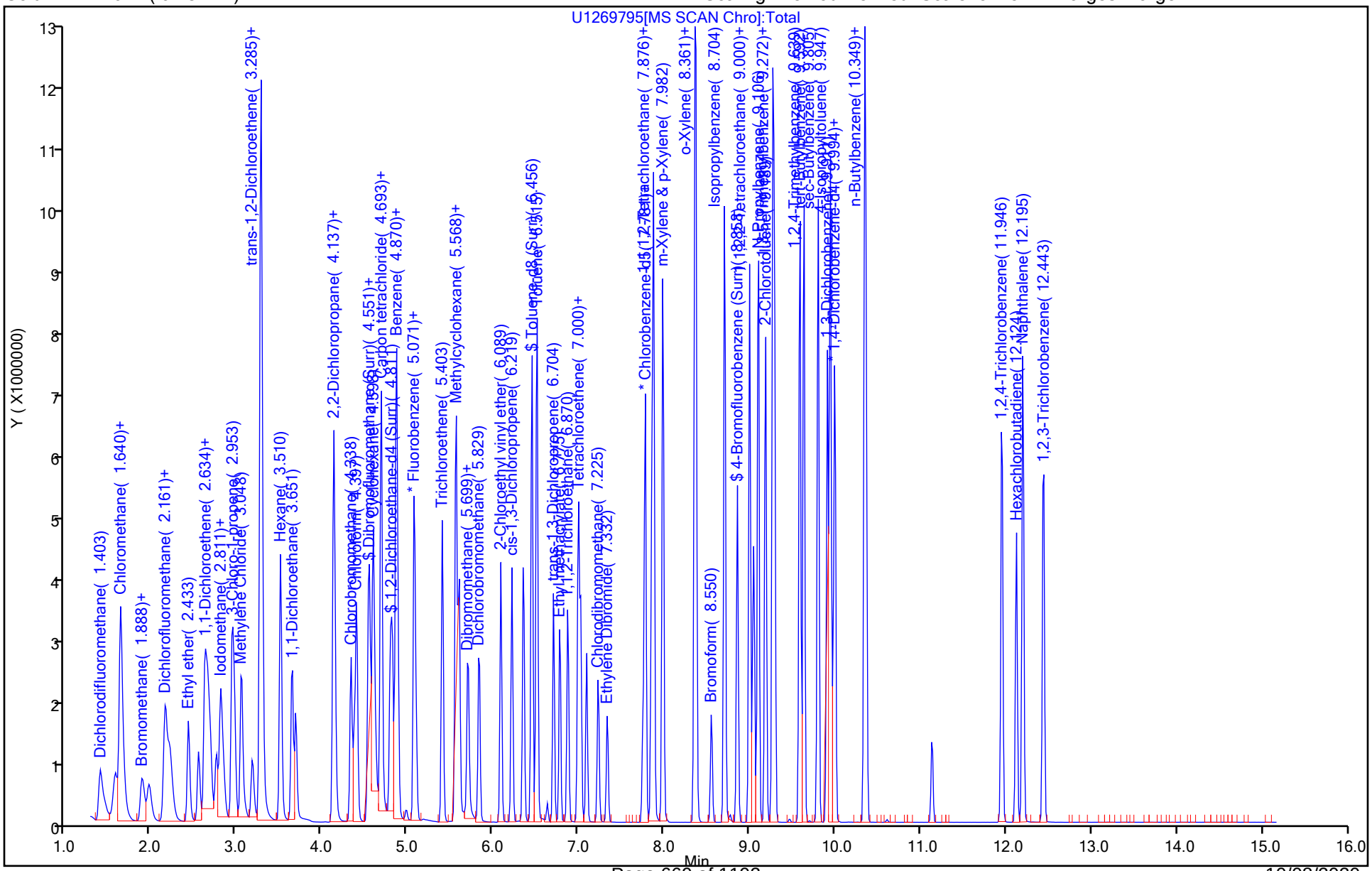
Report Date: 30-Apr-2019 17:22:08 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D

Injection Date:	30-Apr-2019 14:10:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L7			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



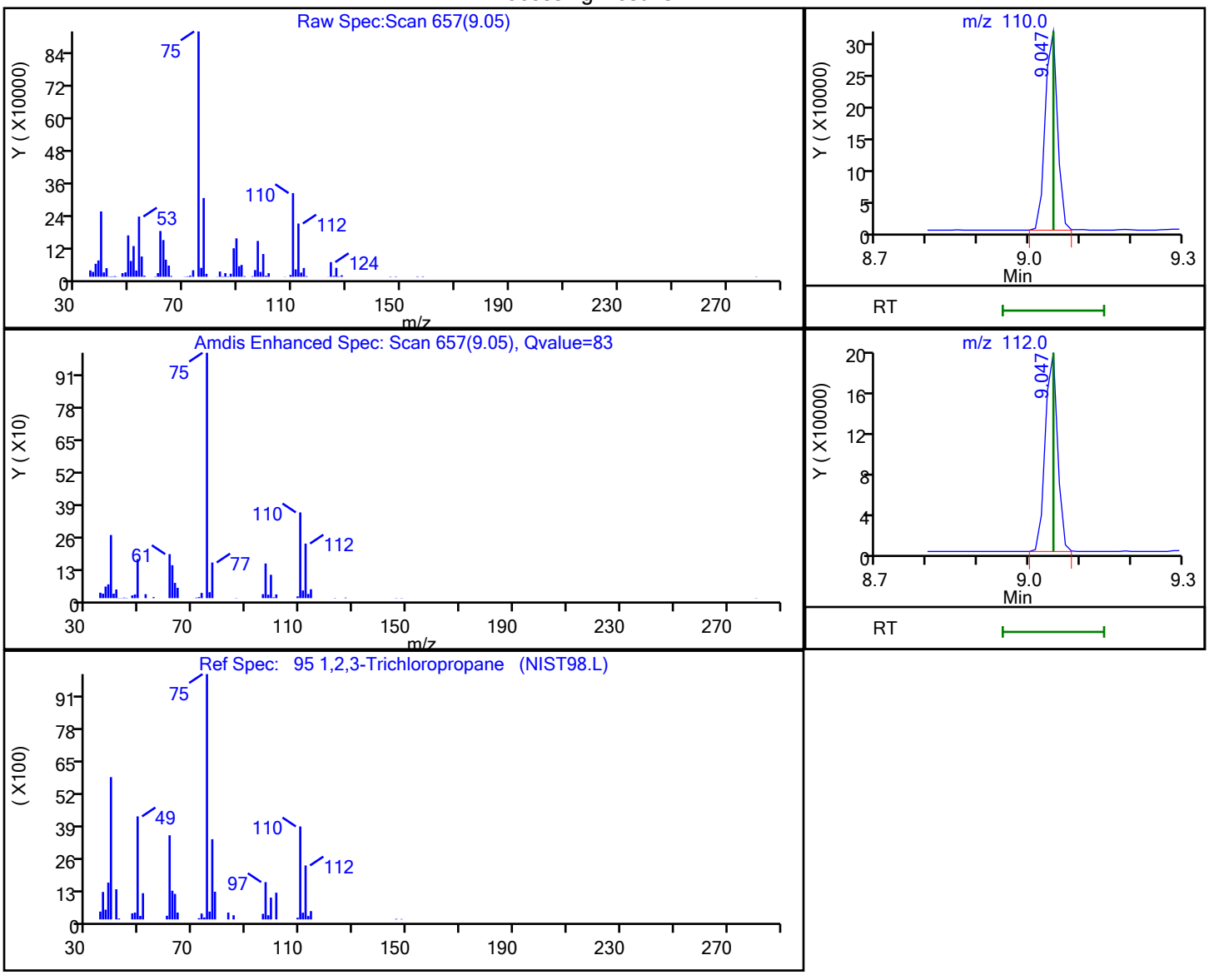
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

95 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
9.05	110.00	523898	66.934030
9.05	112.00	334270	

Reviewer: laveyt, 30-Apr-2019 15:28:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

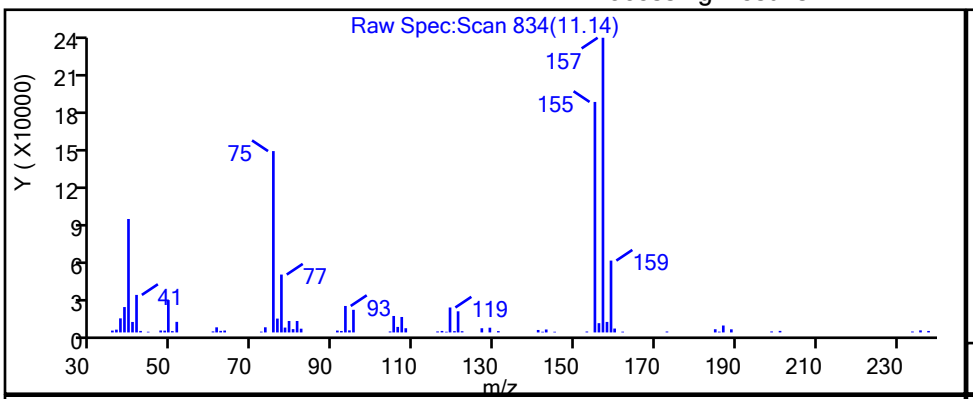
User Disabled Compound Report

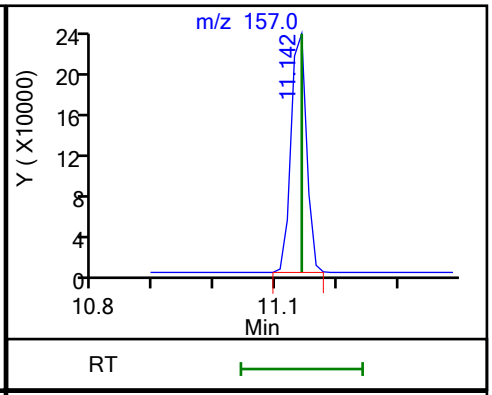
Eurofins TestAmerica, Canton

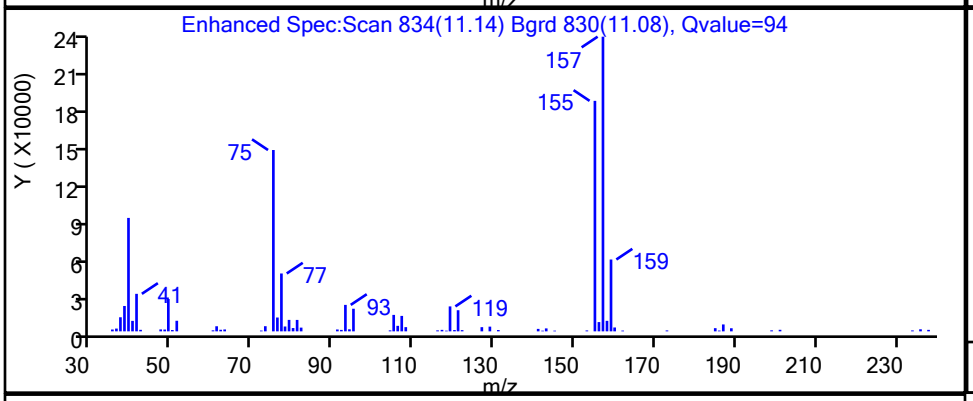
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

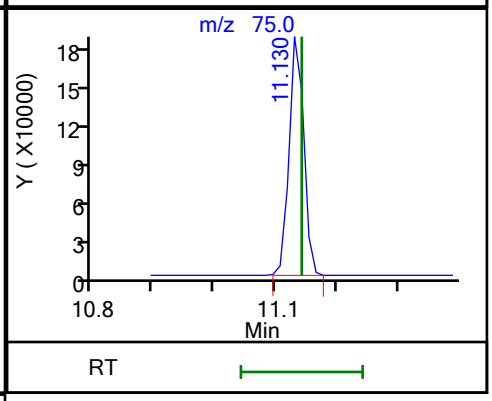
113 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

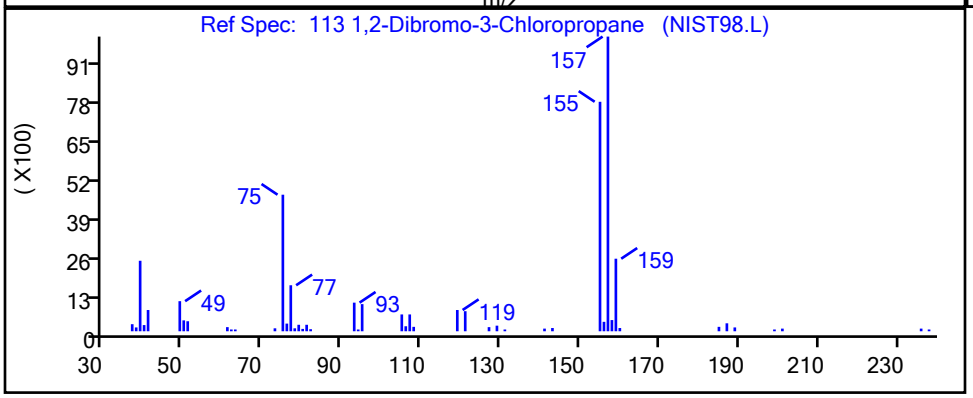
Processing Results











RT	Mass	Response	Amount
11.14	157.00	412663	59.798200
11.13	75.00	309605	

Reviewer: laveyt, 30-Apr-2019 15:29:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

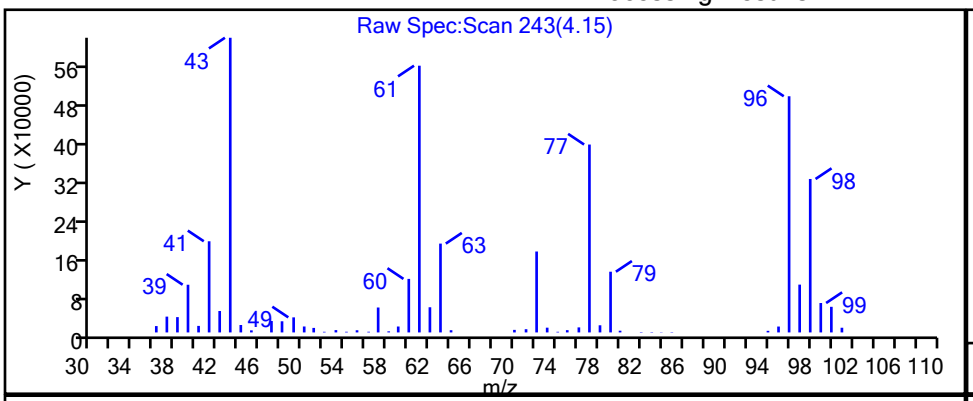
User Disabled Compound Report

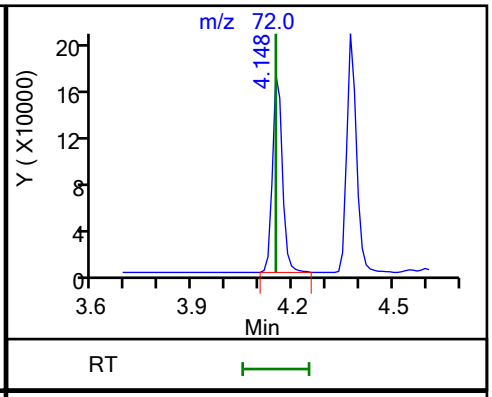
Eurofins TestAmerica, Canton

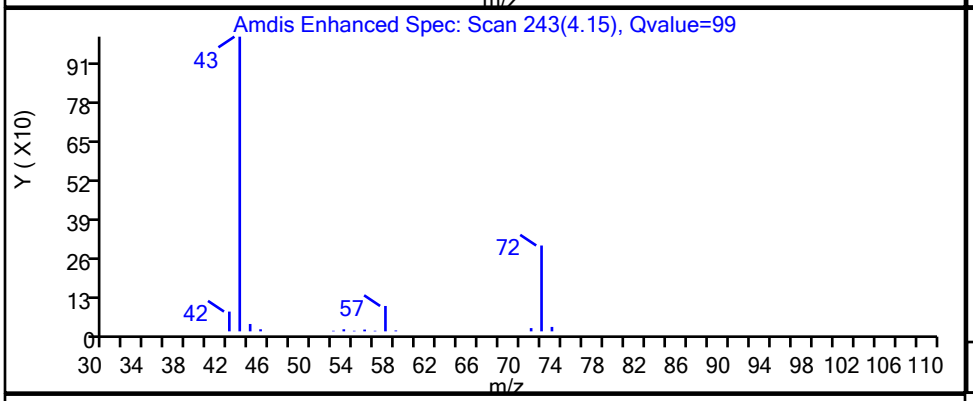
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

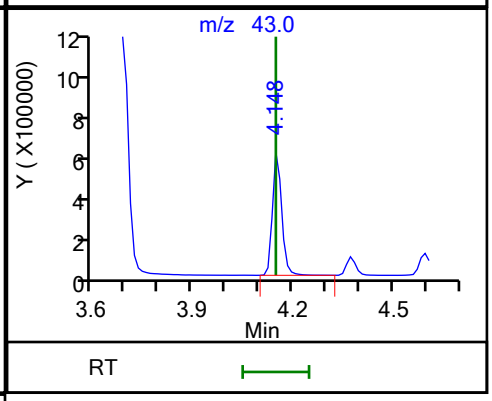
42 2-Butanone (MEK), CAS: 78-93-3

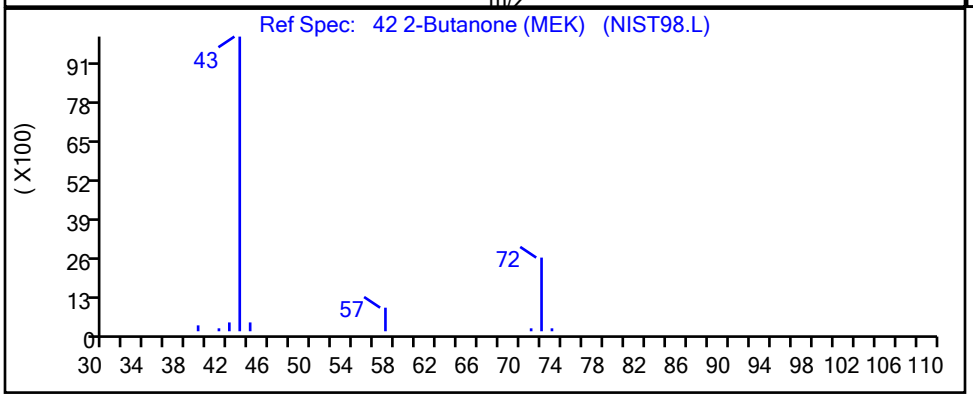
Processing Results











RT	Mass	Response	Amount
4.15	72.00	350699	102.8080
4.15	43.00	1190034	

Reviewer: laveyt, 30-Apr-2019 15:25:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

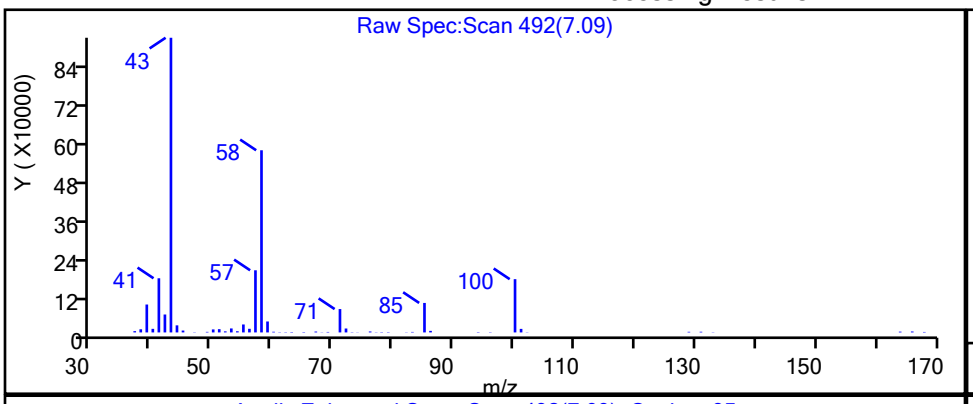
User Disabled Compound Report

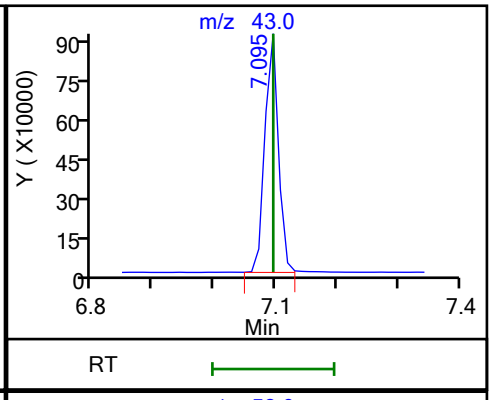
Eurofins TestAmerica, Canton

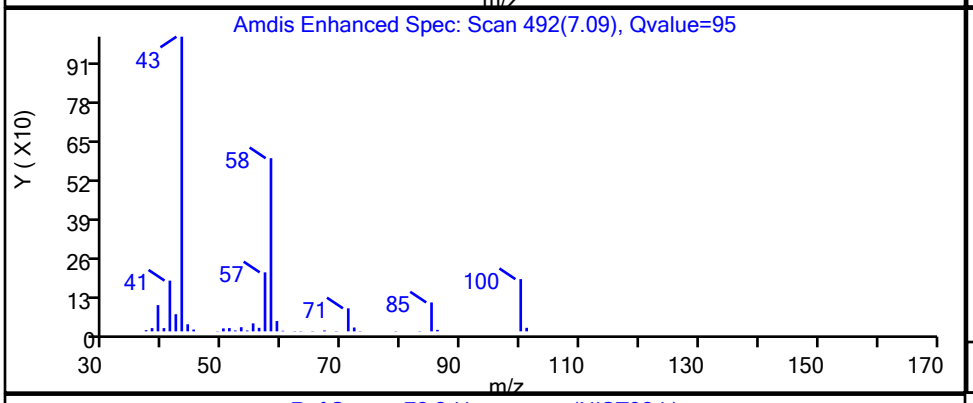
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

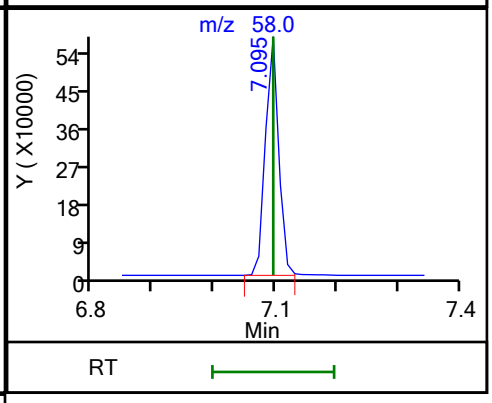
78 2-Hexanone, CAS: 591-78-6

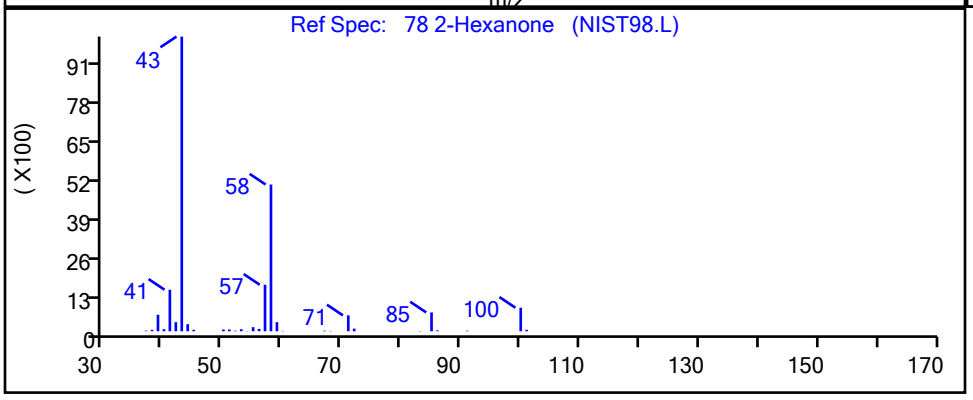
Processing Results











RT	Mass	Response	Amount
7.09	43.00	1429669	102.3875
7.09	58.00	868743	

Reviewer: laveyt, 30-Apr-2019 15:27:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

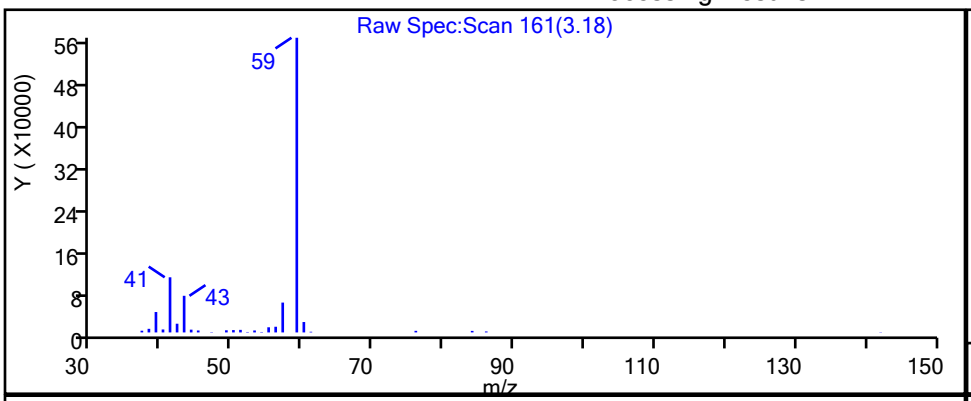
User Disabled Compound Report

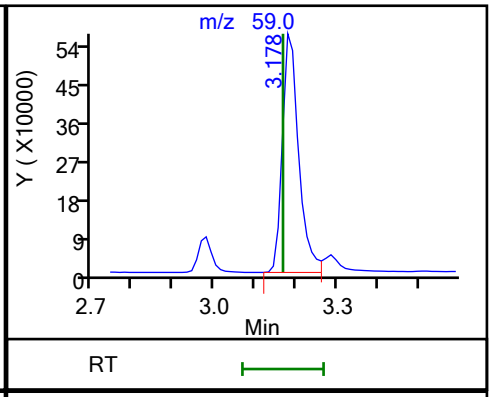
Eurofins TestAmerica, Canton

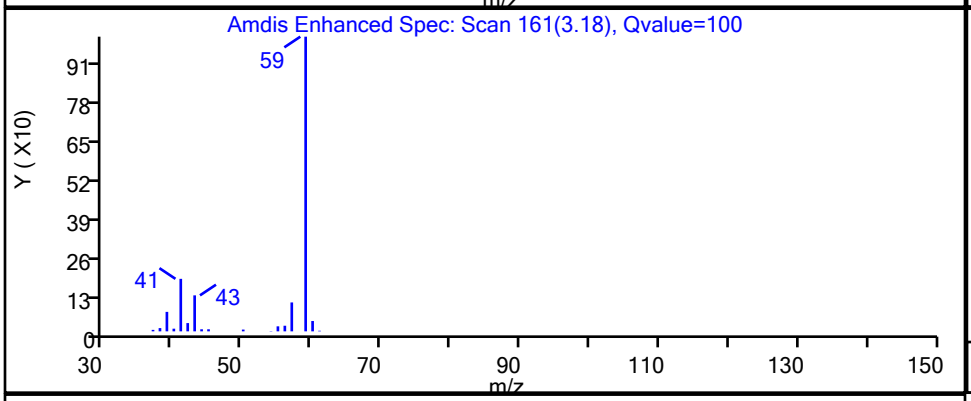
Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D				
Injection Date:	30-Apr-2019 14:10:30	Instrument ID:	A3UX12		
Lims ID:	std8260 L7				
Client ID:					
Operator ID:	001904	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

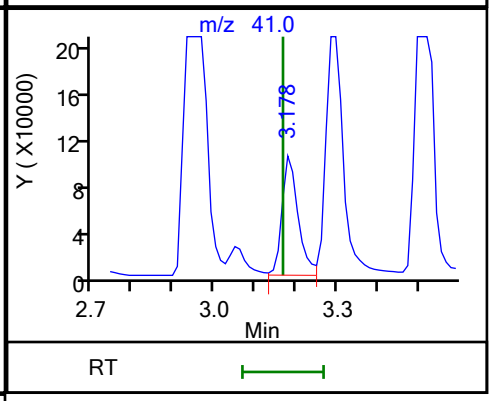
30 2-Methyl-2-propanol, CAS: 75-65-0

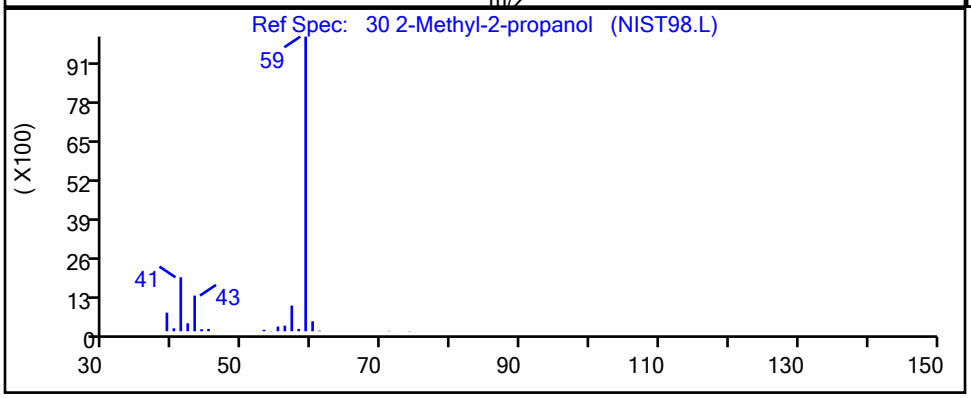
Processing Results











RT	Mass	Response	Amount
3.18	59.00	1576196	442.0113
3.18	41.00	291950	

Reviewer: laveyt, 30-Apr-2019 15:24:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

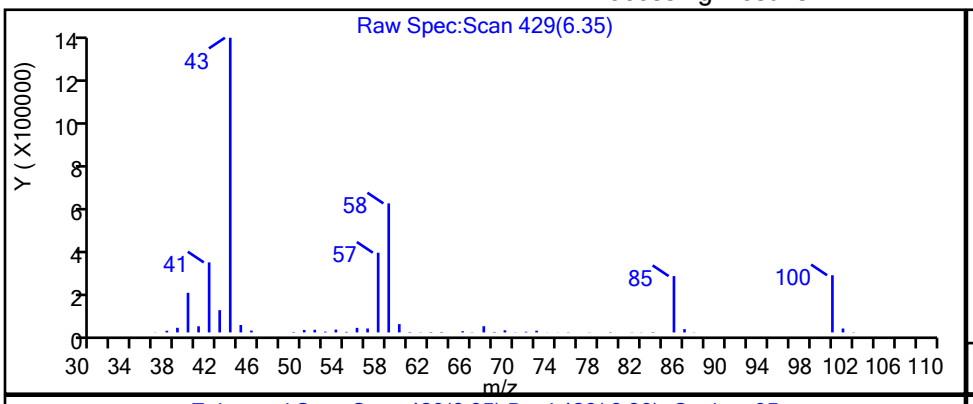
User Disabled Compound Report

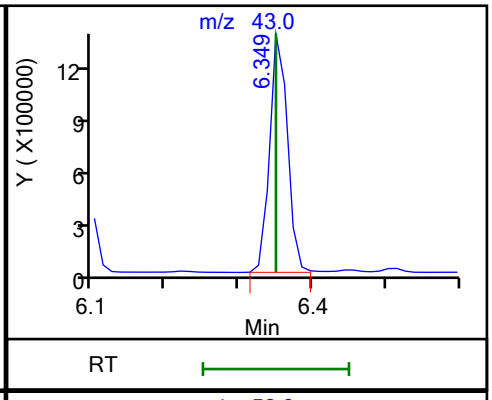
Eurofins TestAmerica, Canton

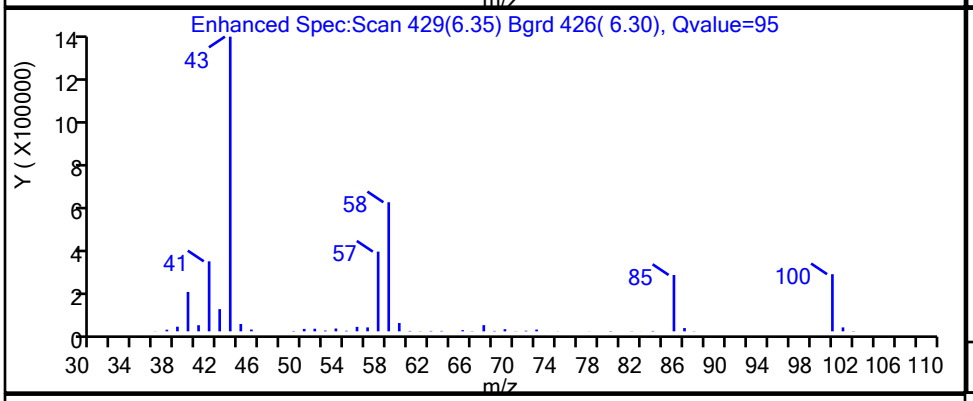
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

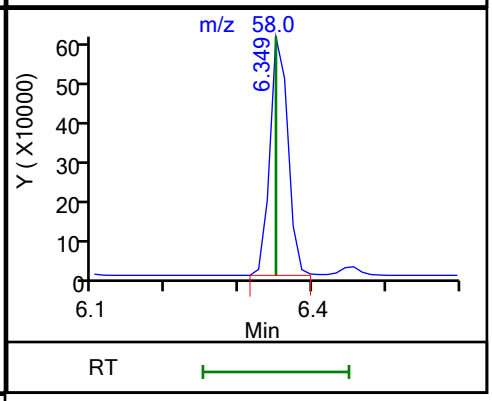
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

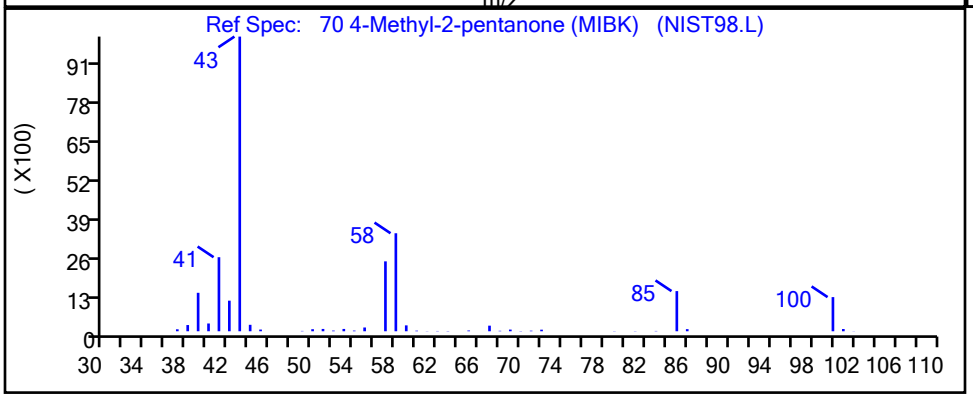
Processing Results











RT	Mass	Response	Amount
6.35	43.00	2351243	112.1448
6.35	58.00	1040187	

Reviewer: laveyt, 30-Apr-2019 15:26:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

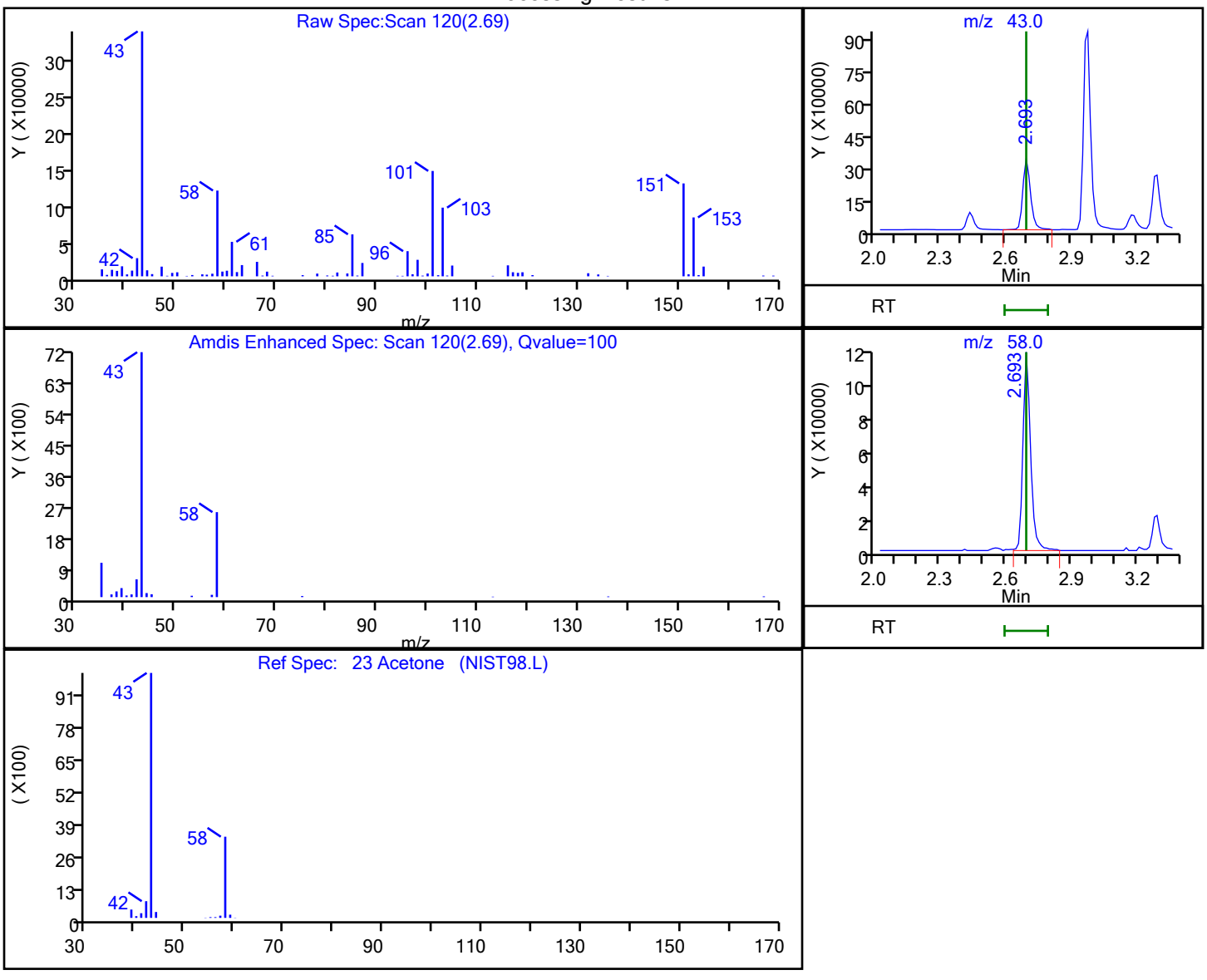
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
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2.69	58.00	287960	

Reviewer: laveyt, 30-Apr-2019 15:23:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

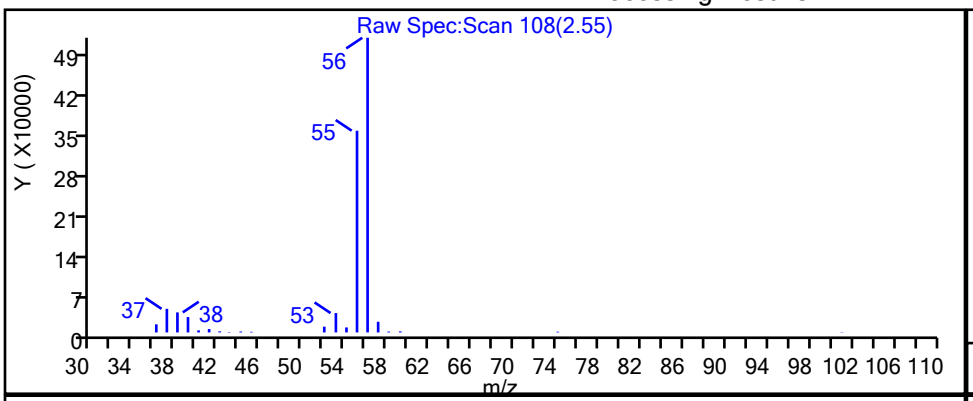
User Disabled Compound Report

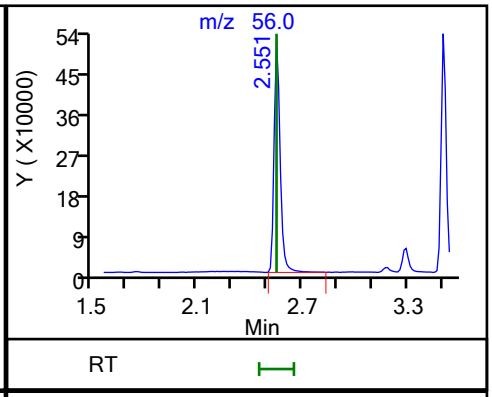
Eurofins TestAmerica, Canton

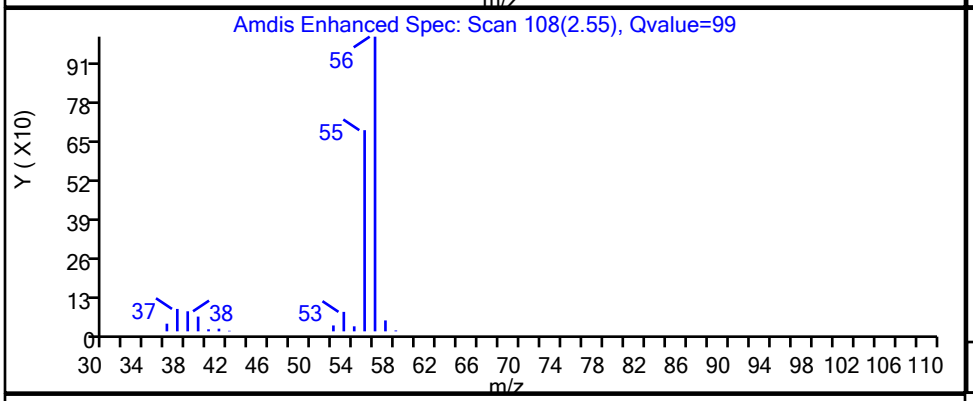
Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D				
Injection Date:	30-Apr-2019 14:10:30	Instrument ID:	A3UX12		
Lims ID:	std8260 L7				
Client ID:					
Operator ID:	001904	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

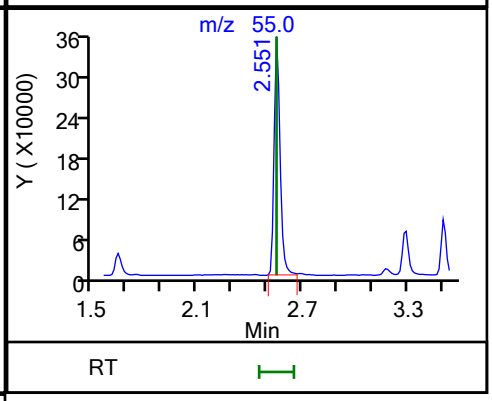
20 Acrolein, CAS: 107-02-8

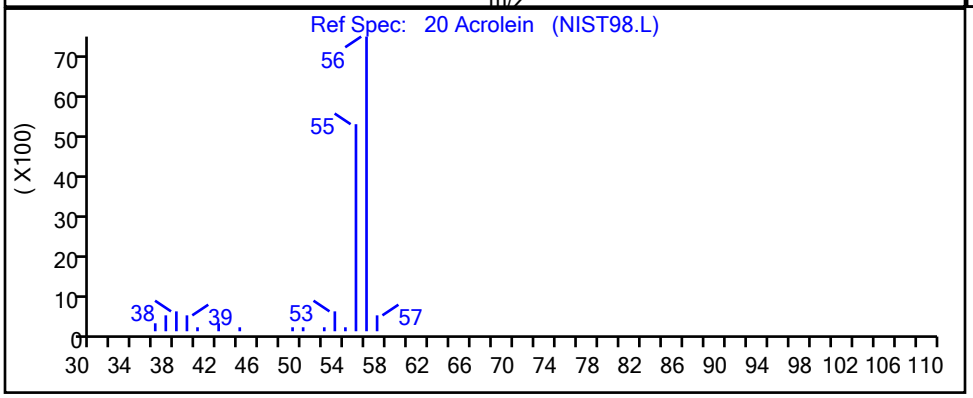
Processing Results











RT	Mass	Response	Amount
2.55	56.00	1265832	303.9187
2.55	55.00	841550	

Reviewer: laveyt, 30-Apr-2019 15:23:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

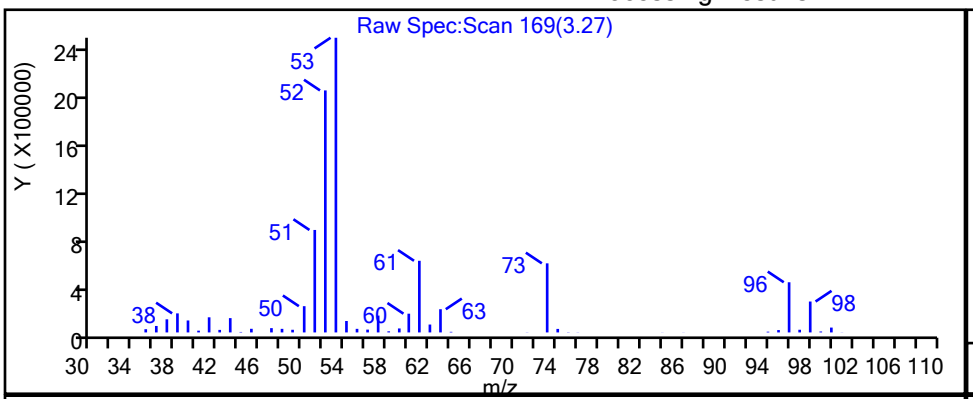
User Disabled Compound Report

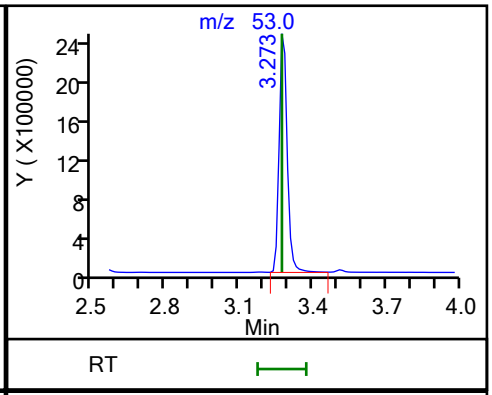
Eurofins TestAmerica, Canton

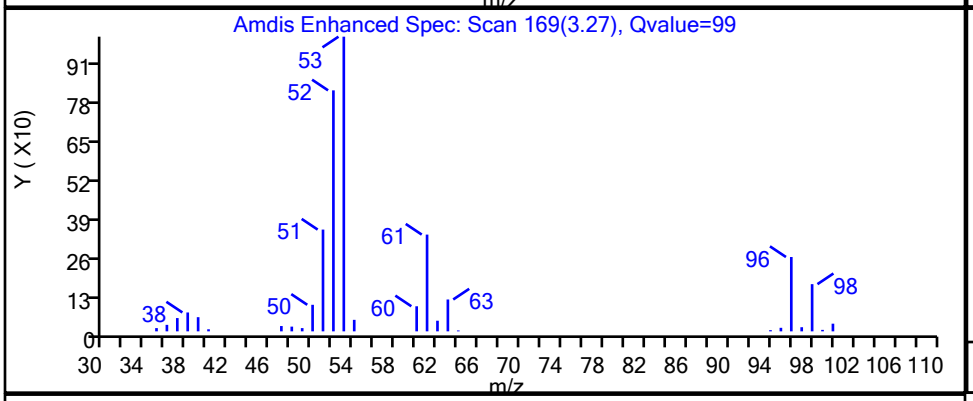
Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D				
Injection Date:	30-Apr-2019 14:10:30	Instrument ID:	A3UX12		
Lims ID:	std8260 L7				
Client ID:					
Operator ID:	001904	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

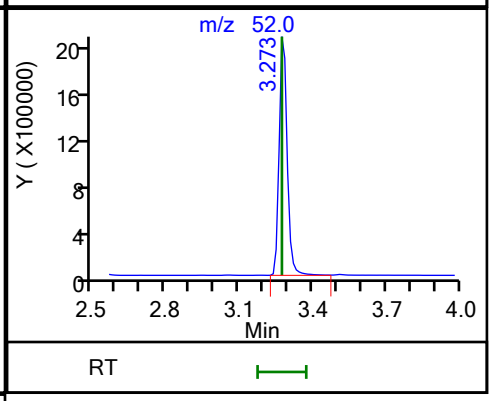
31 Acrylonitrile, CAS: 107-13-1

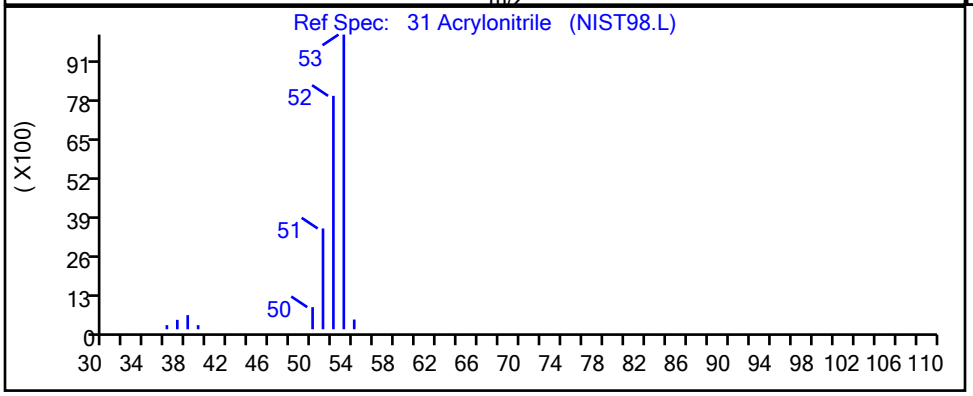
Processing Results











RT	Mass	Response	Amount
3.27	53.00	5744749	592.7333
3.27	52.00	4692139	

Reviewer: laveyt, 30-Apr-2019 15:24:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

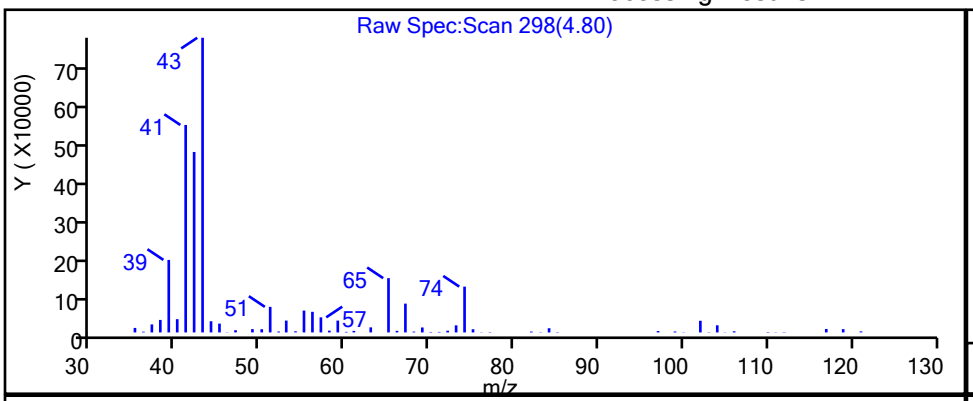
User Disabled Compound Report

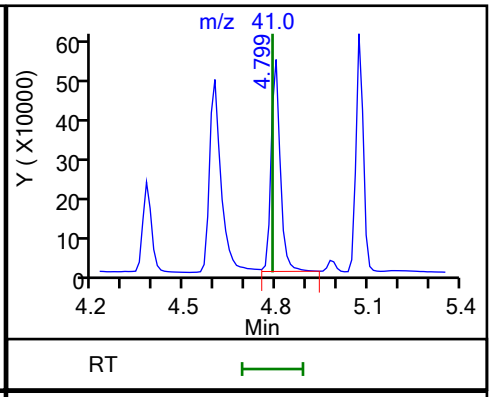
Eurofins TestAmerica, Canton

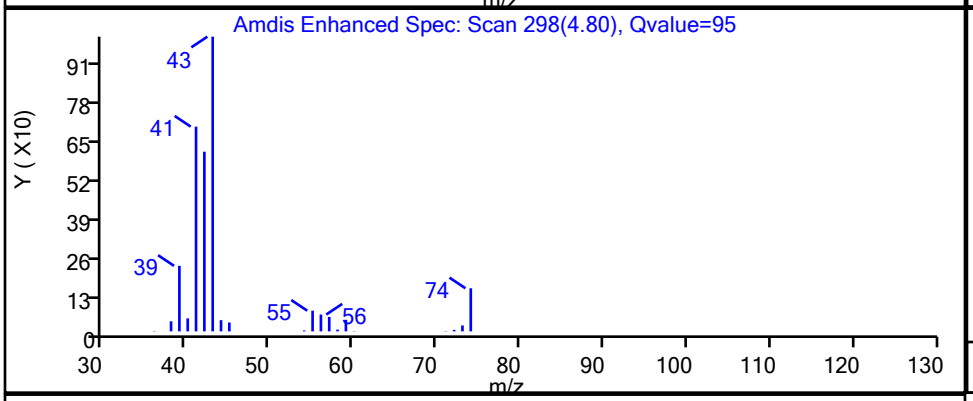
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

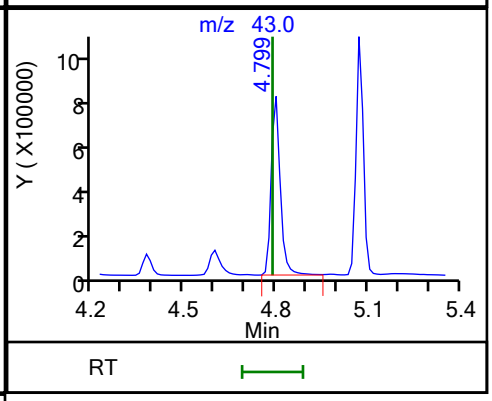
53 Isobutyl alcohol, CAS: 78-83-1

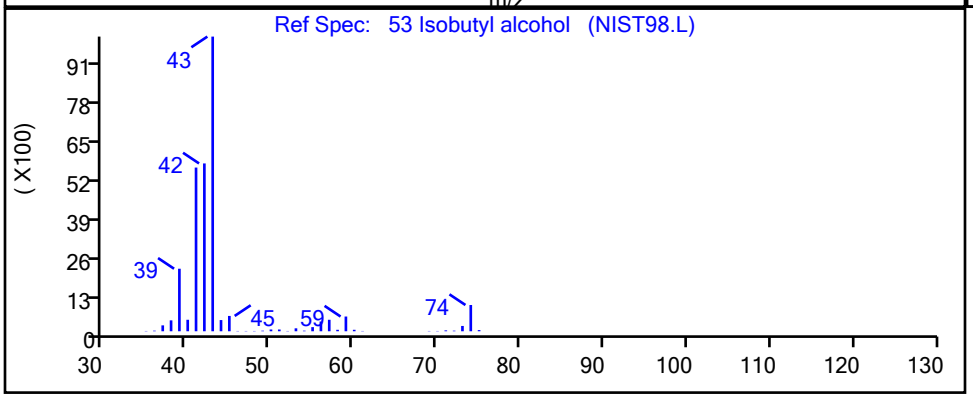
Processing Results











RT	Mass	Response	Amount
4.80	41.00	1138584	1133.5337
4.80	43.00	1619422	

Reviewer: laveyt, 30-Apr-2019 15:25:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

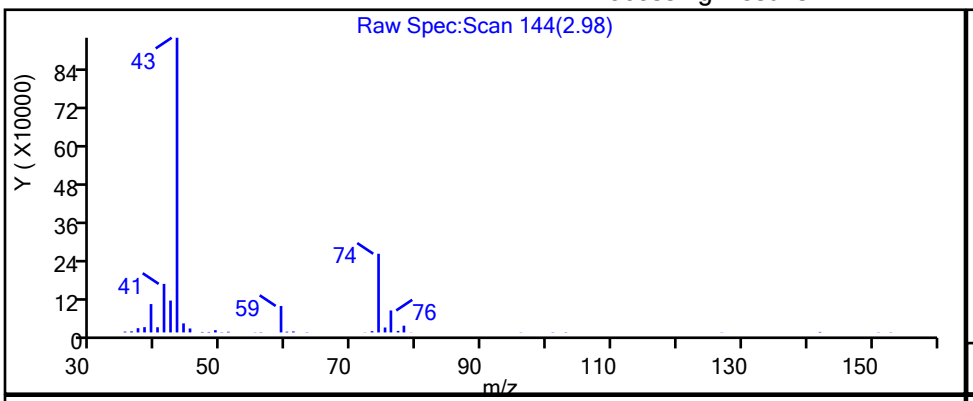
User Disabled Compound Report

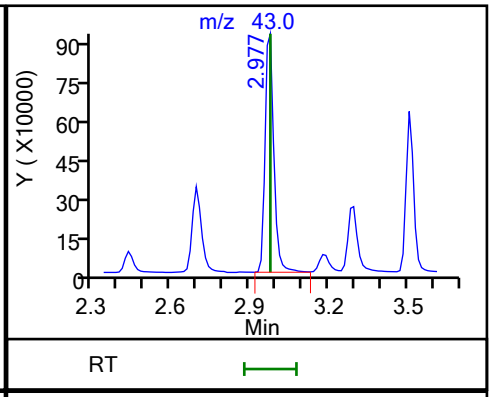
Eurofins TestAmerica, Canton

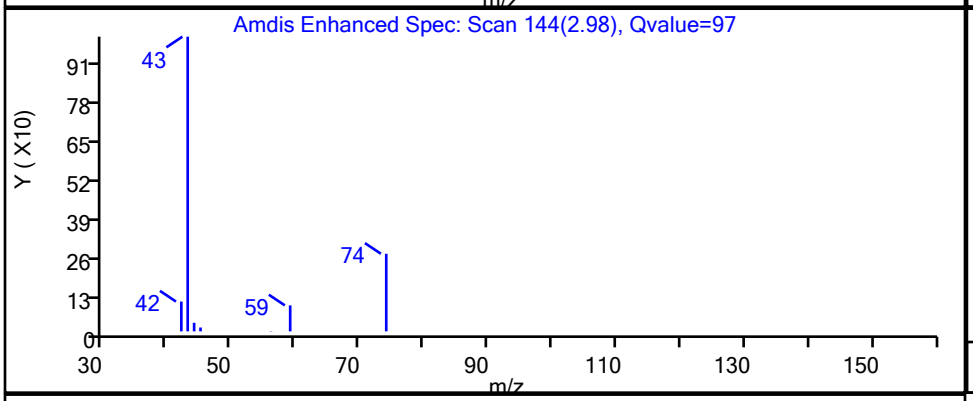
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

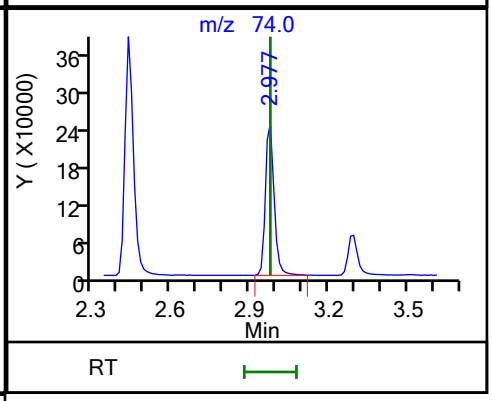
28 Methyl acetate, CAS: 79-20-9

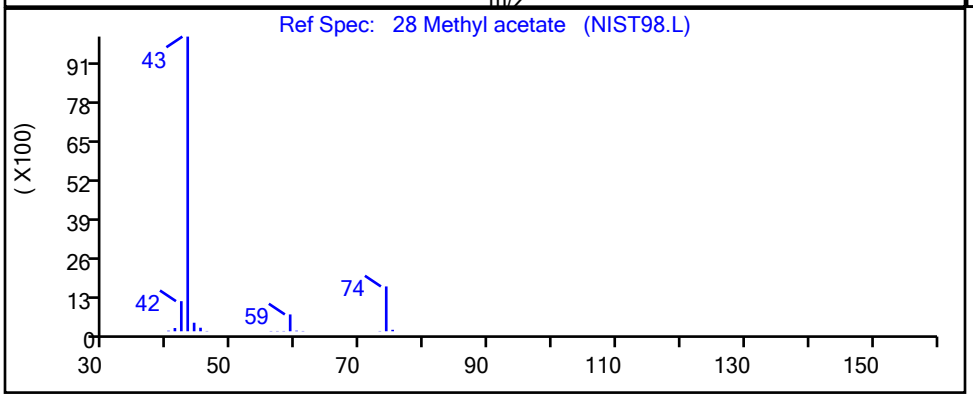
Processing Results











RT	Mass	Response	Amount
2.98	43.00	2177198	116.3615
2.98	74.00	577255	

Reviewer: laveyt, 30-Apr-2019 15:24:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

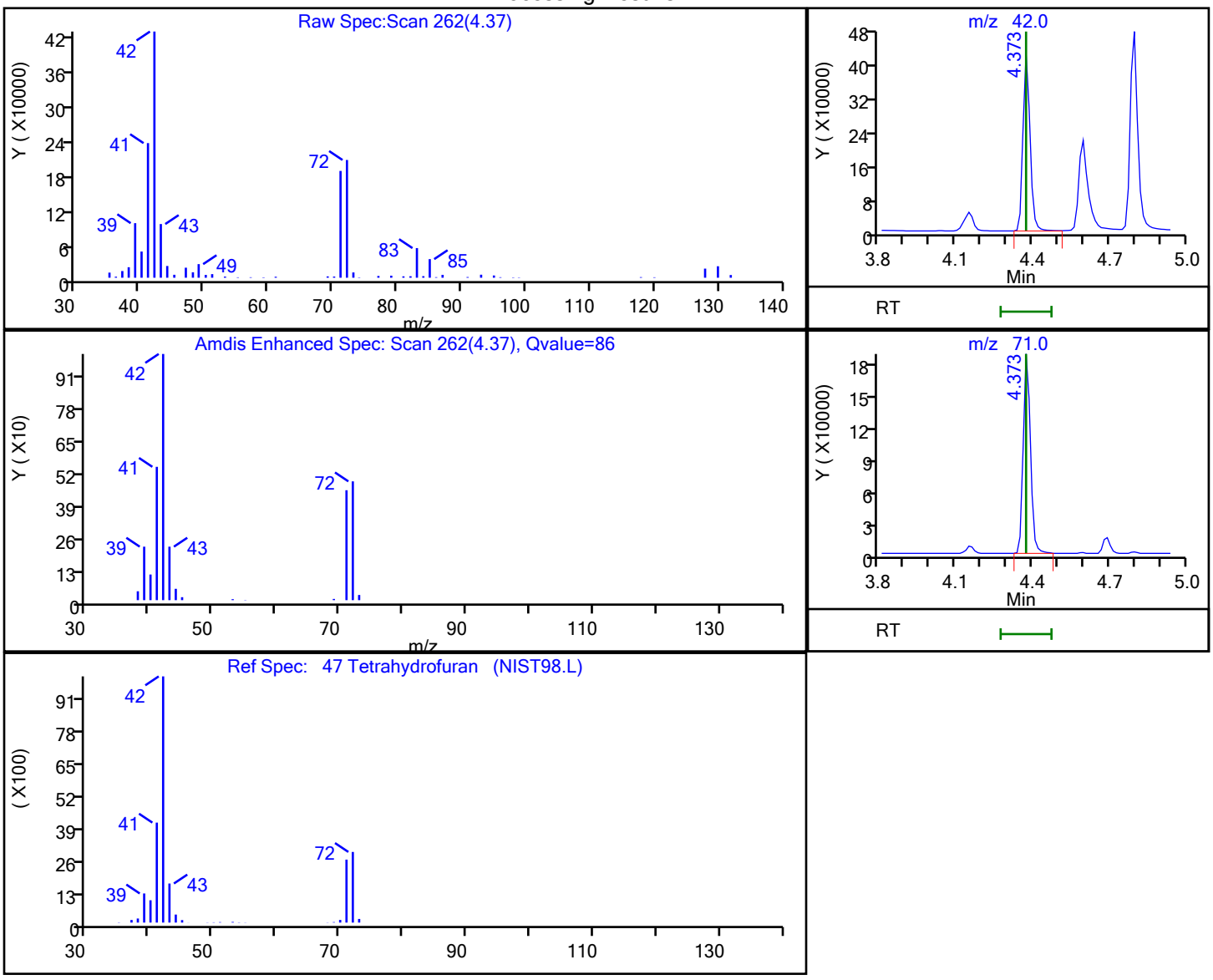
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D
Injection Date: 30-Apr-2019 14:10:30 Instrument ID: A3UX12
Lims ID: std8260 L7
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

47 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
4.37	42.00	828689	103.3614
4.37	71.00	366944	

Reviewer: laveyt, 30-Apr-2019 15:25:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

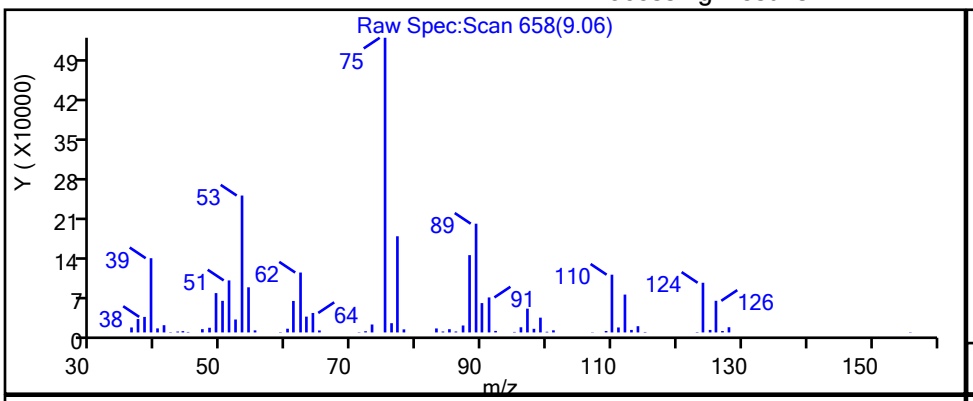
User Disabled Compound Report

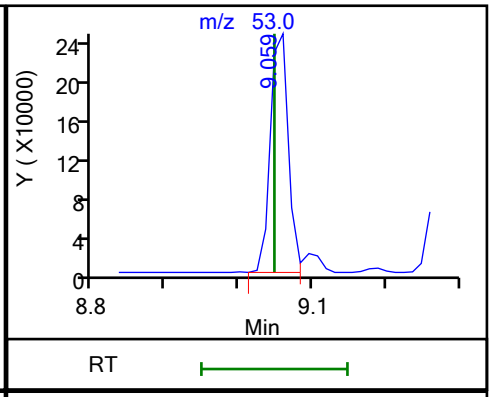
Eurofins TestAmerica, Canton

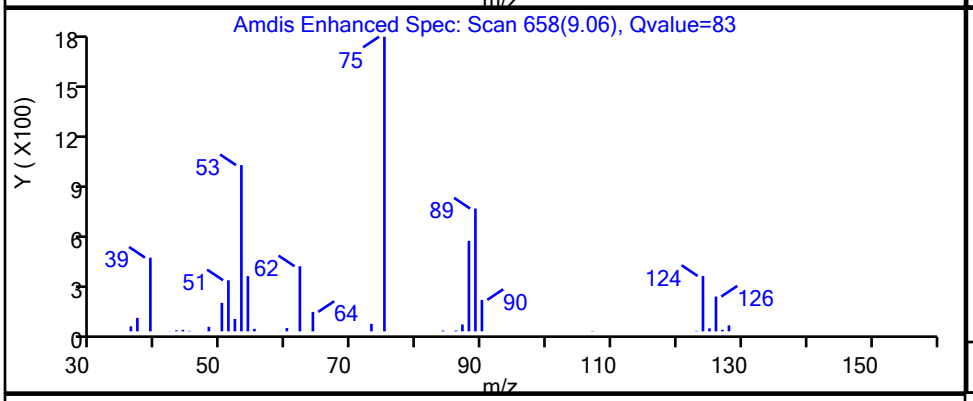
Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D				
Injection Date:	30-Apr-2019 14:10:30	Instrument ID:	A3UX12		
Lims ID:	std8260 L7				
Client ID:					
Operator ID:	001904	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

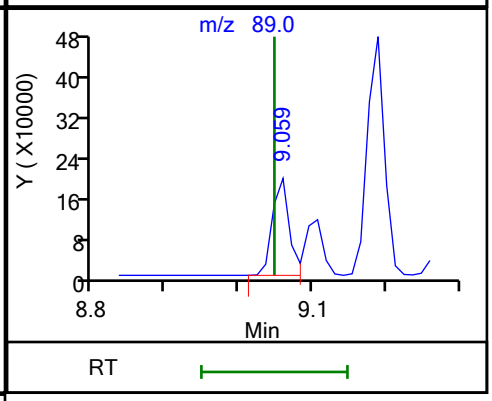
94 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

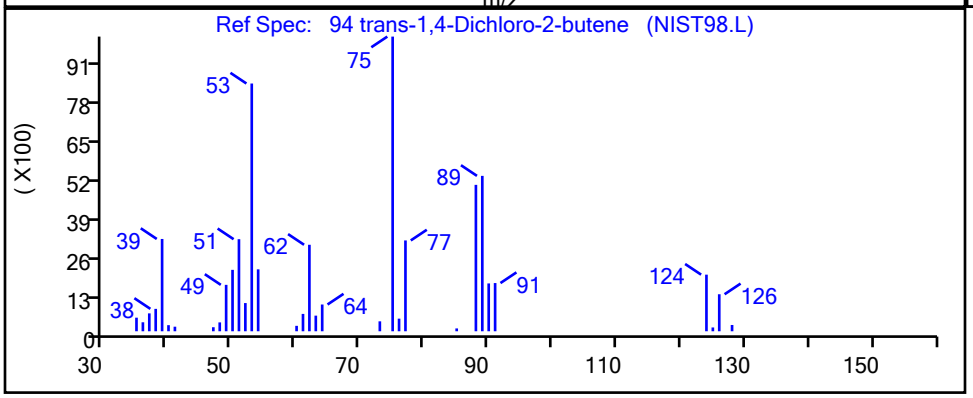
Processing Results











RT	Mass	Response	Amount
9.06	53.00	418490	63.161578
9.06	89.00	314865	

Reviewer: laveyt, 30-Apr-2019 15:28:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

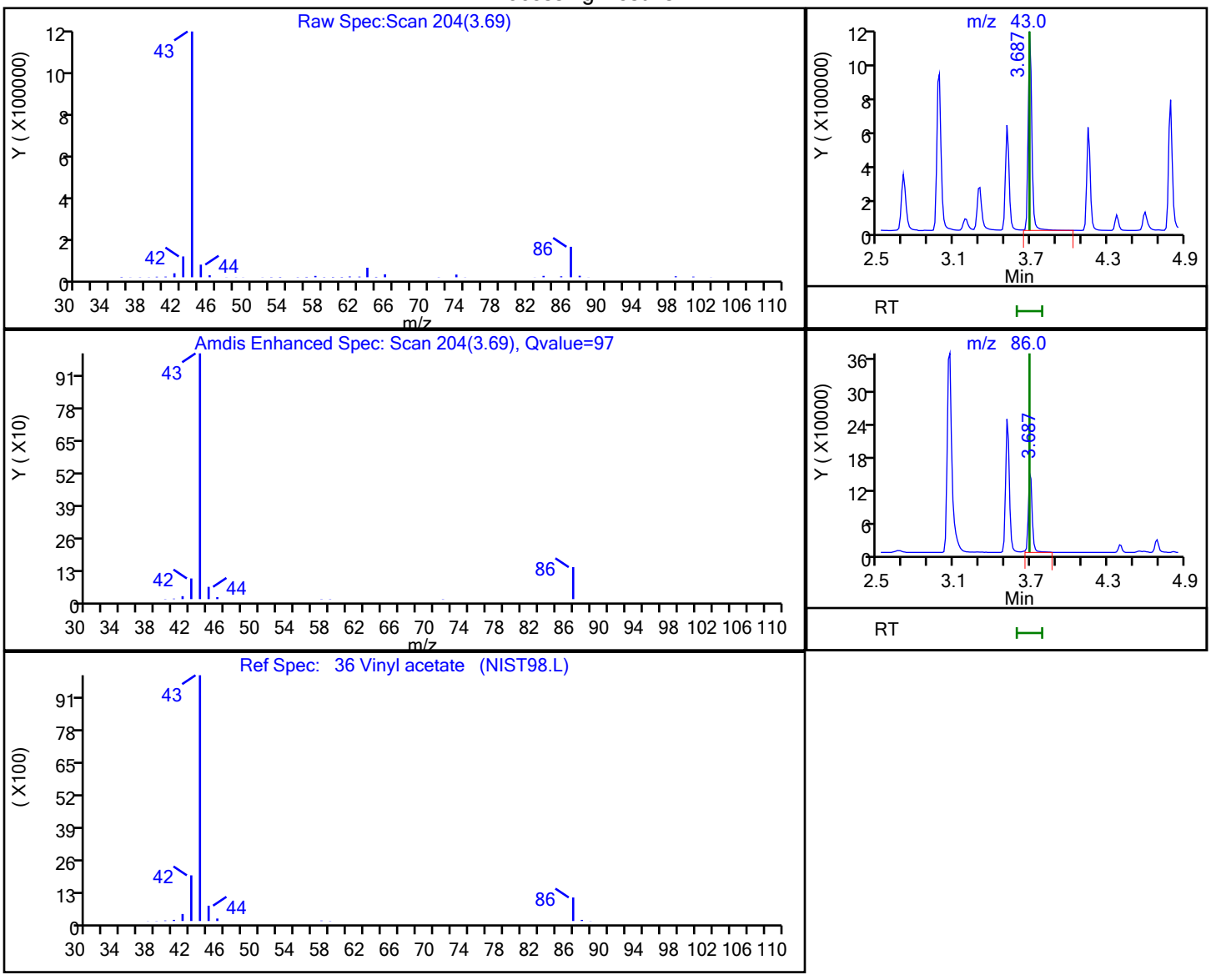
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269795.D				
Injection Date:	30-Apr-2019 14:10:30	Instrument ID:	A3UX12		
Lims ID:	std8260 L7				
Client ID:					
Operator ID:	001904	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

36 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
3.69	43.00	2383821	69.721119
3.69	86.00	313435	

Reviewer: laveyt, 30-Apr-2019 15:25:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269796.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Apr-2019 14:33:30 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-009
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Apr-2019 17:22:19 Calib Date: 30-Apr-2019 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0333

First Level Reviewer: laveyt Date: 30-Apr-2019 15:00:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1251919	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.757	7.758	-0.001	83	873681	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	92	477326	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	94	988457	60.0	59.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	99	1110364	60.0	59.4	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	3550979	60.0	57.4	
$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	94	1310206	60.0	57.5	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	100	1567191	60.0	65.0	
10 Chloromethane	50	1.581	1.581	0.000	98	1257715	60.0	59.5	
11 Butadiene	54	1.640	1.640	0.000	88	1449292	60.0	62.4	
12 Vinyl chloride	62	1.675	1.675	0.000	97	1455844	60.0	61.7	
14 Bromomethane	94	1.912	1.912	0.000	90	883232	60.0	60.6	
15 Chloroethane	64	1.983	1.995	-0.012	99	918797	60.0	62.0	
16 Dichlorofluoromethane	67	2.172	2.172	0.000	98	1807740	60.0	61.0	
17 Trichlorofluoromethane	101	2.220	2.220	0.000	99	1662729	60.0	63.2	
19 Ethyl ether	59	2.433	2.433	0.000	89	929149	60.0	58.8	
20 Acrolein	56	2.551	2.551	0.000	99	1380457	300.0	292.2	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	97	1522285	60.0	58.8	
22 1,1,2-Trichloro-1,2,2-trif	101	2.669	2.669	0.000	94	1054000	60.0	61.5	
23 Acetone	43	2.693	2.693	0.000	100	1067191	120.0	119.8	
24 Iodomethane	142	2.764	2.764	0.000	97	1619670	60.0	58.9	
25 Carbon disulfide	76	2.811	2.823	-0.012	99	3310792	60.0	55.6	
27 3-Chloro-1-propene	41	2.941	2.953	-0.012	93	1697487	60.0	57.5	
28 Methyl acetate	43	2.977	2.977	0.000	97	2530486	120.0	116.2	
29 Methylene Chloride	49	3.060	3.060	0.000	89	1311846	60.0	59.6	
30 2-Methyl-2-propanol	59	3.178	3.166	0.012	100	2552659	600.0	557.0	
31 Acrylonitrile	53	3.273	3.273	0.000	99	6486159	600.0	572.2	
32 trans-1,2-Dichloroethene	61	3.285	3.285	0.000	98	1450217	60.0	57.0	
33 Methyl tert-butyl ether	73	3.296	3.285	0.011	94	3027404	60.0	57.6	
34 Hexane	57	3.509	3.510	-0.001	89	1702774	60.0	61.3	
35 1,1-Dichloroethane	63	3.651	3.652	-0.001	96	1856520	60.0	58.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.687	0.000	97	2173371	60.0	61.0	
41 2,2-Dichloropropane	77	4.137	4.137	0.000	60	1156337	60.0	56.2	
40 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	80	1255612	60.0	58.2	
42 2-Butanone (MEK)	72	4.148	4.149	-0.001	99	482200	120.0	123.6	
46 Chlorobromomethane	49	4.338	4.338	0.000	95	858112	60.0	56.8	
47 Tetrahydrofuran	42	4.373	4.373	0.000	86	1132369	120.0	120.6	
48 Chloroform	83	4.397	4.397	0.000	93	1766502	60.0	58.3	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	98	1574408	60.0	60.5	
50 Cyclohexane	84	4.598	4.598	0.000	87	1928649	60.0	61.0	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	96	1521069	60.0	59.1	
52 Carbon tetrachloride	117	4.693	4.693	0.000	79	1327796	60.0	60.0	
53 Isobutyl alcohol	41	4.799	4.788	0.011	94	1784970	1500.0	1434.1	
54 Benzene	78	4.870	4.870	0.000	95	4341955	60.0	58.9	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	1329568	60.0	58.6	
57 n-Heptane	57	5.071	5.071	0.000	93	841832	60.0	61.6	
59 Trichloroethene	130	5.403	5.403	0.000	97	1167306	60.0	59.2	
61 Methylcyclohexane	83	5.568	5.568	0.000	86	2177617	60.0	61.6	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	93	937223	60.0	60.2	
64 Dibromomethane	174	5.710	5.710	0.000	97	757811	60.0	57.4	
65 1,4-Dioxane	88	5.722	5.722	0.000	90	298901	1200.0	1193.3	
66 Dichlorobromomethane	83	5.829	5.829	0.000	100	1304681	60.0	61.4	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	1435551	120.0	127.0	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	96	1566673	60.0	60.5	
70 4-Methyl-2-pentanone (MIBK	43	6.349	6.349	0.000	95	2858560	120.0	119.1	
71 Toluene	91	6.515	6.515	0.000	99	4263658	60.0	58.3	
72 trans-1,3-Dichloropropene	75	6.704	6.704	0.000	92	1400355	60.0	59.2	
74 Ethyl methacrylate	69	6.775	6.775	0.000	89	1413898	60.0	62.0	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	91	861361	60.0	59.3	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	1157587	60.0	59.6	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	88	1521180	60.0	59.0	
78 2-Hexanone	43	7.095	7.095	0.000	93	2004012	120.0	114.7	
80 Chlorodibromomethane	129	7.225	7.225	0.000	90	919717	60.0	60.9	
81 Ethylene Dibromide	107	7.331	7.332	-0.001	98	941630	60.0	60.3	
83 Chlorobenzene	112	7.781	7.781	0.000	95	2734043	60.0	57.9	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	987481	60.0	59.9	
85 Ethylbenzene	106	7.876	7.876	0.000	98	1545630	60.0	58.7	
86 m-Xylene & p-Xylene	106	7.982	7.982	0.000	99	1937780	60.0	59.3	
87 o-Xylene	106	8.361	8.361	0.000	95	1931683	60.0	58.5	
88 Styrene	104	8.373	8.373	0.000	94	3161922	60.0	59.7	
89 Bromoform	173	8.550	8.550	0.000	98	697809	60.0	63.9	
90 Isopropylbenzene	105	8.704	8.704	0.000	95	5047046	60.0	58.7	
92 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	86	1444688	60.0	61.5	
93 Bromobenzene	156	9.000	9.000	0.000	89	1209647	60.0	58.5	
95 1,2,3-Trichloropropane	110	9.047	9.047	0.000	86	516092	60.0	58.0	
94 trans-1,4-Dichloro-2-buten	53	9.059	9.047	0.012	81	451551	60.0	59.3	
96 N-Propylbenzene	120	9.106	9.107	-0.001	98	1416141	60.0	60.2	
97 2-Chlorotoluene	126	9.189	9.189	0.000	97	1168744	60.0	59.3	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	4038075	60.0	59.5	
99 4-Chlorotoluene	126	9.296	9.296	0.000	99	1186575	60.0	58.3	
102 tert-Butylbenzene	119	9.592	9.592	0.000	91	3712091	60.0	60.2	
104 1,2,4-Trimethylbenzene	105	9.639	9.639	0.000	96	4146548	60.0	59.0	
105 sec-Butylbenzene	105	9.805	9.805	0.000	93	5308368	60.0	59.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	2338079	60.0	57.4	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	4555449	60.0	59.4	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	96	2363448	60.0	56.4	
111 n-Butylbenzene	91	10.349	10.349	0.000	96	3900305	60.0	59.6	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	2247875	60.0	56.9	
113 1,2-Dibromo-3-Chloropropan	157	11.142	11.142	0.000	94	477069	60.0	62.2	
115 1,2,4-Trichlorobenzene	180	11.958	11.946	0.012	94	1562937	60.0	56.6	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	96	675267	60.0	55.4	
117 Naphthalene	128	12.195	12.195	0.000	97	5009873	60.0	57.9	
118 1,2,3-Trichlorobenzene	180	12.443	12.443	0.000	96	1426661	60.0	55.9	
S 124 Trihalomethanes, Total	1				0		240.0	244.5	
S 125 Total BTEX	1				0		300.0	293.7	
S 126 1,2-Dichloroethene, Total	96				0			115.3	
S 127 1,3-Dichloropropene, Total	75				0			119.7	
S 128 Xylenes, Total	106				0		120.0	117.8	

Reagents:

vm50is_stk_A_00003	Amount Added:	2.00	Units: uL
vmrgas_00291	Amount Added:	48.00	Units: uL
vm50ss_00362	Amount Added:	48.00	Units: uL
vmarolistdw_00294	Amount Added:	48.00	Units: uL
vmrprimw_00331	Amount Added:	48.00	Units: uL

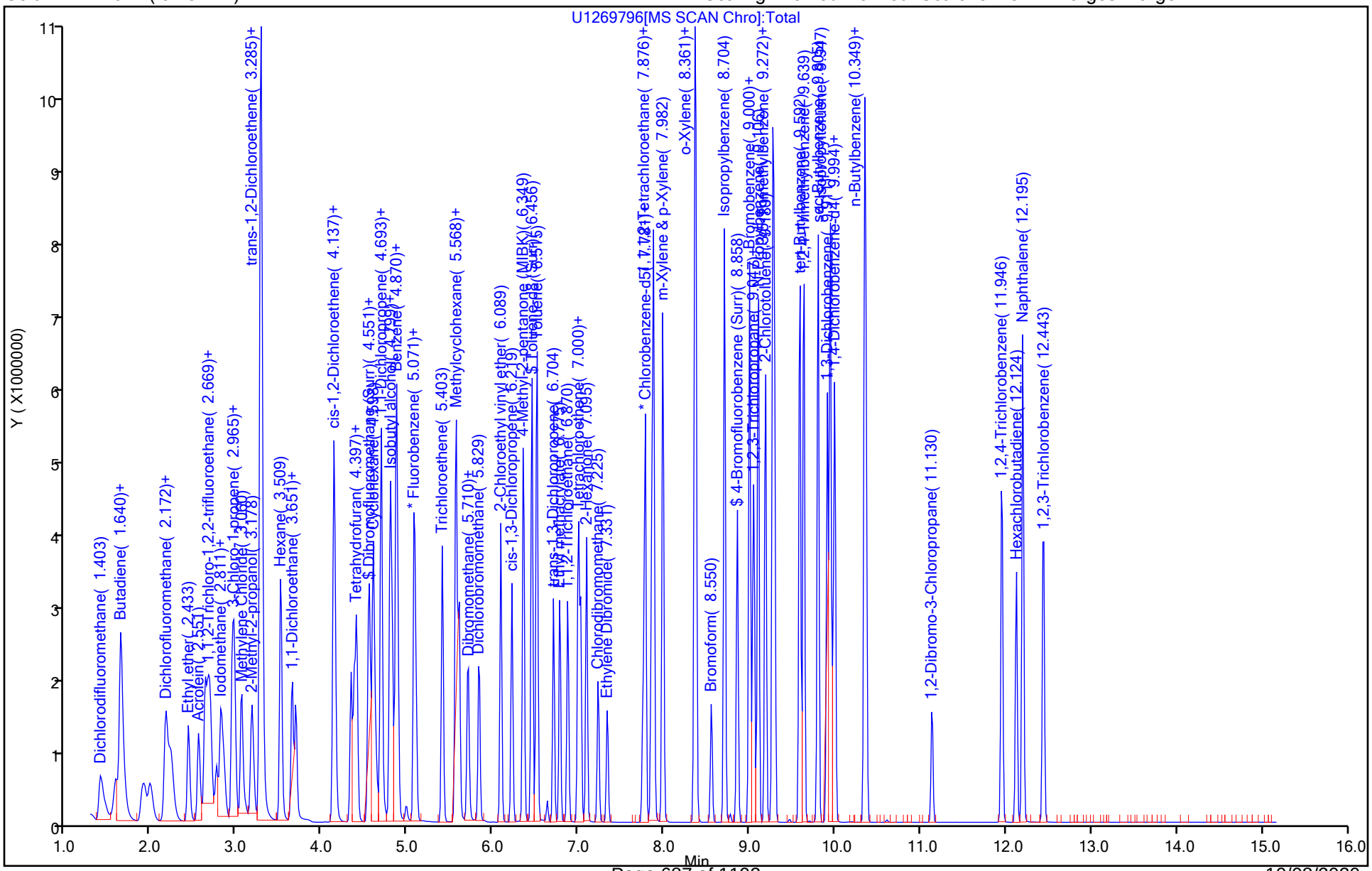
Report Date: 30-Apr-2019 17:22:24 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269796.D

Injection Date:	30-Apr-2019 14:33:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L6			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269797.D
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Apr-2019 14:55:30 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-010
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Apr-2019 17:22:36 Calib Date: 30-Apr-2019 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0333

First Level Reviewer: laveyt Date: 30-Apr-2019 15:22:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1247371	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	84	848037	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.001	93	466349	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	94	680998	40.0	41.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	98	754824	40.0	40.5	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	2403057	40.0	40.0	
$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	95	874019	40.0	39.5	
9 Dichlorodifluoromethane	85	1.404	1.403	0.001	99	1030351	40.0	42.9	
10 Chloromethane	50	1.581	1.581	0.000	99	863765	40.0	41.0	
11 Butadiene	54	1.640	1.640	0.000	87	960327	40.0	41.5	
12 Vinyl chloride	62	1.664	1.675	-0.011	98	970649	40.0	41.3	
14 Bromomethane	94	1.912	1.912	0.000	90	590824	40.0	40.7	
15 Chloroethane	64	1.983	1.995	-0.012	99	592754	40.0	40.1	
16 Dichlorofluoromethane	67	2.161	2.172	-0.011	97	1183160	40.0	40.1	
17 Trichlorofluoromethane	101	2.208	2.220	-0.012	98	1094737	40.0	41.8	
19 Ethyl ether	59	2.433	2.433	0.000	89	641131	40.0	40.7	
20 Acrolein	56	2.551	2.551	0.000	99	946268	200.0	201.0	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	97	1043595	40.0	40.5	
22 1,1,2-Trichloro-1,2,2-trif	101	2.658	2.669	-0.011	93	708990	40.0	41.5	
23 Acetone	43	2.693	2.693	0.000	100	729471	80.0	81.5	
24 Iodomethane	142	2.764	2.764	0.000	97	1115860	40.0	40.7	
25 Carbon disulfide	76	2.823	2.823	0.000	99	2267883	40.0	38.2	
27 3-Chloro-1-propene	41	2.942	2.953	-0.011	93	1176034	40.0	40.0	
28 Methyl acetate	43	2.977	2.977	0.000	97	1715851	80.0	79.1	
29 Methylene Chloride	49	3.060	3.060	0.000	90	930086	40.0	41.6	
30 2-Methyl-2-propanol	59	3.178	3.166	0.012	100	1790088	400.0	392.0	
31 Acrylonitrile	53	3.273	3.273	0.000	99	4436089	400.0	392.7	
32 trans-1,2-Dichloroethene	61	3.285	3.285	0.000	98	1013326	40.0	40.0	
33 Methyl tert-butyl ether	73	3.285	3.285	0.000	94	2131851	40.0	40.7	
34 Hexane	57	3.510	3.510	0.000	90	1142313	40.0	41.3	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	1284657	40.0	40.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.687	0.000	97	1462850	40.0	41.2	
41 2,2-Dichloropropane	77	4.137	4.137	0.000	61	841953	40.0	41.1	
40 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	81	866934	40.0	40.4	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	99	322049	80.0	82.9	
46 Chlorobromomethane	49	4.338	4.338	0.000	95	598675	40.0	39.8	
47 Tetrahydrofuran	42	4.374	4.373	0.001	86	755334	80.0	80.7	
48 Chloroform	83	4.397	4.397	0.000	95	1231881	40.0	40.8	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	98	1083939	40.0	41.8	
50 Cyclohexane	84	4.598	4.598	0.000	87	1285622	40.0	40.8	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	95	1034085	40.0	40.4	
52 Carbon tetrachloride	117	4.693	4.693	0.000	82	940122	40.0	42.7	
53 Isobutyl alcohol	41	4.788	4.788	0.000	94	1254651	1000.0	1011.7	
54 Benzene	78	4.871	4.870	0.001	95	2963156	40.0	40.3	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	908435	40.0	40.2	
57 n-Heptane	57	5.072	5.071	0.001	94	571599	40.0	41.0	
59 Trichloroethene	130	5.403	5.403	0.000	96	793097	40.0	40.3	
61 Methylcyclohexane	83	5.569	5.568	0.001	86	1493017	40.0	42.4	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	94	643520	40.0	41.5	
64 Dibromomethane	174	5.711	5.710	0.001	96	529643	40.0	40.2	
65 1,4-Dioxane	88	5.723	5.722	0.001	90	212766	800.0	852.6	
66 Dichlorobromomethane	83	5.829	5.829	0.000	100	894000	40.0	42.2	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	945507	80.0	83.9	
69 cis-1,3-Dichloropropene	75	6.220	6.219	0.001	97	1063891	40.0	41.3	
70 4-Methyl-2-pentanone (MIBK	43	6.350	6.349	0.001	95	1951525	80.0	81.6	
71 Toluene	91	6.515	6.515	0.000	99	2883485	40.0	40.6	
72 trans-1,3-Dichloropropene	75	6.705	6.704	0.001	92	945703	40.0	41.2	
74 Ethyl methacrylate	69	6.776	6.775	0.001	89	952052	40.0	43.0	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	91	581540	40.0	41.2	
76 Tetrachloroethene	166	7.000	7.000	0.000	96	784044	40.0	41.6	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	88	1025142	40.0	41.0	
78 2-Hexanone	43	7.095	7.095	0.000	93	1354308	80.0	79.9	
80 Chlorodibromomethane	129	7.225	7.225	0.000	90	633936	40.0	43.3	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	633639	40.0	41.8	
83 Chlorobenzene	112	7.781	7.781	0.000	96	1876430	40.0	41.0	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	674622	40.0	42.1	
85 Ethylbenzene	106	7.876	7.876	0.000	98	1066262	40.0	41.7	
86 m-Xylene & p-Xylene	106	7.983	7.982	0.001	99	1329053	40.0	41.9	
87 o-Xylene	106	8.361	8.361	0.000	96	1331003	40.0	41.5	
88 Styrene	104	8.373	8.373	0.000	95	2156541	40.0	41.9	
89 Bromoform	173	8.551	8.550	0.001	97	475190	40.0	44.8	
90 Isopropylbenzene	105	8.704	8.704	0.000	95	3506656	40.0	42.0	
92 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	86	982071	40.0	42.8	
93 Bromobenzene	156	9.000	9.000	0.000	88	818090	40.0	40.5	
95 1,2,3-Trichloropropane	110	9.048	9.047	0.001	84	356976	40.0	41.1	
94 trans-1,4-Dichloro-2-buten	53	9.048	9.047	0.001	91	305416	40.0	41.1	
96 N-Propylbenzene	120	9.107	9.107	0.000	98	966595	40.0	42.0	
97 2-Chlorotoluene	126	9.190	9.189	0.001	98	813877	40.0	42.2	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	2808258	40.0	42.4	
99 4-Chlorotoluene	126	9.296	9.296	0.000	97	815761	40.0	41.0	
102 tert-Butylbenzene	119	9.592	9.592	0.000	91	2579873	40.0	42.9	
104 1,2,4-Trimethylbenzene	105	9.639	9.639	0.000	96	2883392	40.0	42.0	
105 sec-Butylbenzene	105	9.805	9.805	0.000	93	3709245	40.0	42.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	1612862	40.0	40.5	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	3212945	40.0	42.9	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	96	1641044	40.0	40.1	
111 n-Butylbenzene	91	10.349	10.349	0.000	96	2709817	40.0	42.4	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	99	1554362	40.0	40.3	
113 1,2-Dibromo-3-Chloropropan	157	11.142	11.142	0.000	92	325575	40.0	43.5	
115 1,2,4-Trichlorobenzene	180	11.947	11.946	0.001	94	1096024	40.0	40.7	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	469488	40.0	39.4	
117 Naphthalene	128	12.195	12.195	0.000	97	3569051	40.0	42.3	
118 1,2,3-Trichlorobenzene	180	12.444	12.443	0.001	96	1001370	40.0	40.1	
S 124 Trihalomethanes, Total	1				0		160.0	171.1	
S 125 Total BTEX	1				0		200.0	206.1	
S 126 1,2-Dichloroethene, Total	96				0			80.3	
S 127 1,3-Dichloropropene, Total	75				0			82.4	
S 128 Xylenes, Total	106				0		80.0	83.4	

Reagents:

vm50is_stk_A_00003	Amount Added:	2.00	Units: uL
vmrgas_00291	Amount Added:	32.00	Units: uL
vm50ss_00362	Amount Added:	32.00	Units: uL
vmarolistdw_00294	Amount Added:	32.00	Units: uL
vmrprimw_00331	Amount Added:	32.00	Units: uL

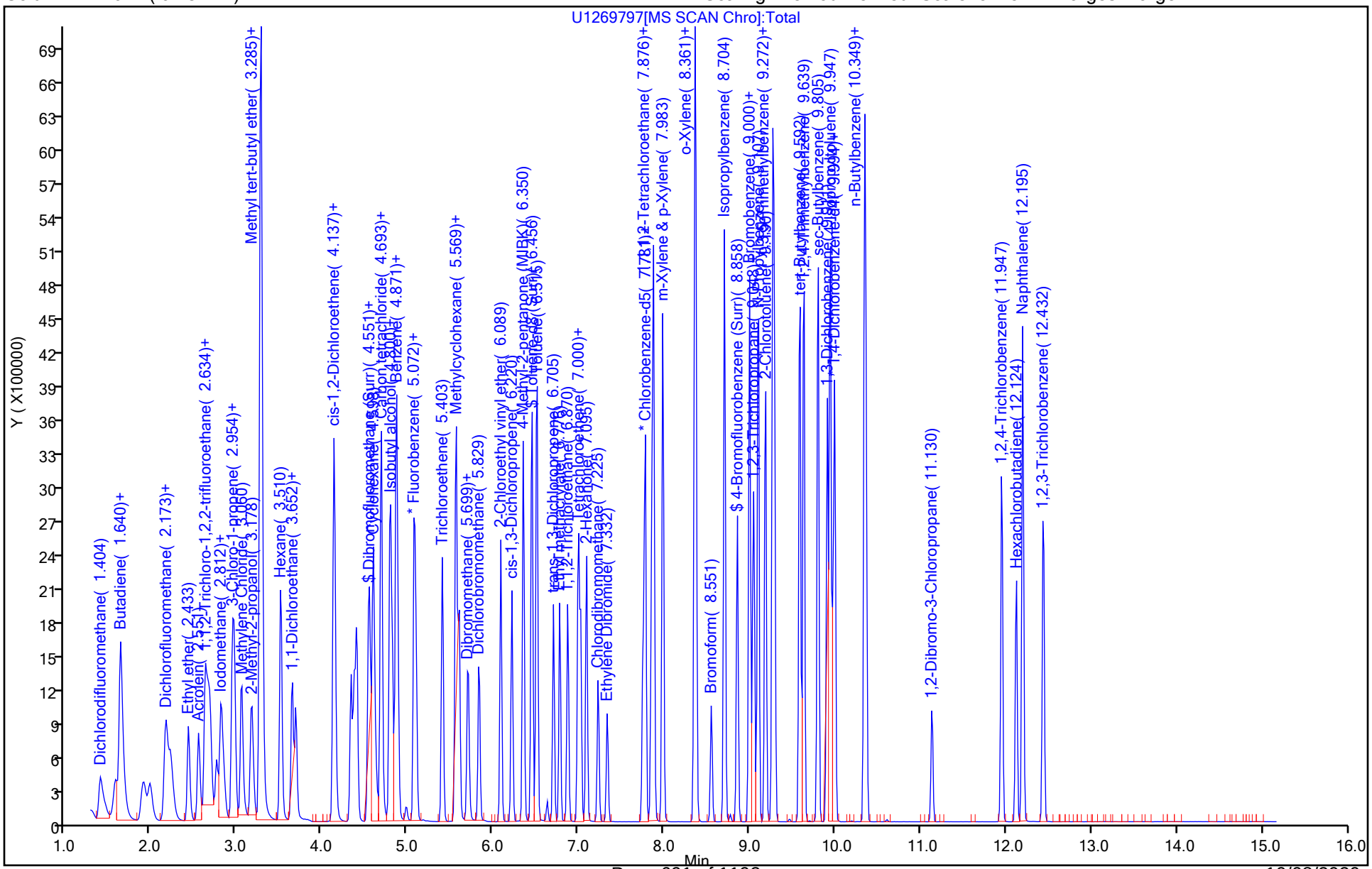
Report Date: 30-Apr-2019 17:22:42 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269797.D

Injection Date:	30-Apr-2019 14:55:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269798.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 30-Apr-2019 15:17:30 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-011
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Apr-2019 17:22:54 Calib Date: 30-Apr-2019 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0333

First Level Reviewer: laveyt Date: 30-Apr-2019 16:03:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1246876	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	83	855324	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	94	464704	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	94	332600	20.0	20.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	96	366398	20.0	19.7	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	1181805	20.0	19.5	
$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	95	426237	20.0	19.1	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	496091	20.0	20.7	
10 Chloromethane	50	1.581	1.581	0.000	99	403612	20.0	19.2	
11 Butadiene	54	1.640	1.640	0.000	88	460371	20.0	19.9	
12 Vinyl chloride	62	1.675	1.675	0.000	97	463335	20.0	19.7	
14 Bromomethane	94	1.912	1.912	0.000	90	290732	20.0	20.0	
15 Chloroethane	64	1.995	1.995	0.000	99	292854	20.0	19.8	
16 Dichlorofluoromethane	67	2.172	2.172	0.000	97	575498	20.0	19.5	
17 Trichlorofluoromethane	101	2.220	2.220	0.000	99	524611	20.0	20.0	
19 Ethyl ether	59	2.433	2.433	0.000	89	308106	20.0	19.6	
20 Acrolein	56	2.551	2.551	0.000	99	454386	100.0	96.6	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	97	508373	20.0	19.7	
22 1,1,2-Trichloro-1,2,2-trif	101	2.669	2.669	0.000	94	345600	20.0	20.3	
23 Acetone	43	2.693	2.693	0.000	100	354093	40.0	38.4	
24 Iodomethane	142	2.764	2.764	0.000	97	538227	20.0	19.6	
25 Carbon disulfide	76	2.823	2.823	0.000	99	1117299	20.0	18.8	
27 3-Chloro-1-propene	41	2.953	2.953	0.000	92	560067	20.0	19.1	
28 Methyl acetate	43	2.977	2.977	0.000	97	825132	40.0	38.0	
29 Methylene Chloride	49	3.060	3.060	0.000	90	464186	20.0	19.4	
30 2-Methyl-2-propanol	59	3.166	3.166	0.000	100	872907	200.0	191.3	
31 Acrylonitrile	53	3.273	3.273	0.000	99	2135420	200.0	189.1	
32 trans-1,2-Dichloroethene	61	3.285	3.285	0.000	71	492658	20.0	19.4	
33 Methyl tert-butyl ether	73	3.285	3.285	0.000	94	1039087	20.0	19.8	
34 Hexane	57	3.510	3.510	0.000	90	557732	20.0	20.2	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	622049	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.687	0.000	97	700651	20.0	19.7	
41 2,2-Dichloropropane	77	4.137	4.137	0.000	61	412857	20.0	20.1	
40 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	80	417933	20.0	19.5	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	99	151425	40.0	39.0	
46 Chlorobromomethane	49	4.338	4.338	0.000	94	288735	20.0	19.2	
47 Tetrahydrofuran	42	4.373	4.373	0.000	86	360495	40.0	38.5	
48 Chloroform	83	4.397	4.397	0.000	94	602114	20.0	19.9	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	98	533200	20.0	20.6	
50 Cyclohexane	84	4.598	4.598	0.000	87	642956	20.0	20.4	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	96	504905	20.0	19.7	
52 Carbon tetrachloride	117	4.693	4.693	0.000	81	453383	20.0	20.6	
53 Isobutyl alcohol	41	4.788	4.788	0.000	94	615511	500.0	496.5	
54 Benzene	78	4.870	4.870	0.000	95	1437120	20.0	19.6	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	441298	20.0	19.5	
57 n-Heptane	57	5.071	5.071	0.000	90	299975	20.0	20.1	
59 Trichloroethene	130	5.403	5.403	0.000	96	387176	20.0	19.7	
61 Methylcyclohexane	83	5.568	5.568	0.000	85	720921	20.0	20.5	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	93	307704	20.0	19.8	
64 Dibromomethane	174	5.710	5.710	0.000	97	249664	20.0	19.0	
65 1,4-Dioxane	88	5.722	5.722	0.000	90	110260	400.0	442.0	
66 Dichlorobromomethane	83	5.829	5.829	0.000	100	425494	20.0	20.1	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	453314	40.0	40.3	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	97	507172	20.0	19.7	
70 4-Methyl-2-pentanone (MIBK	43	6.349	6.349	0.000	95	939875	40.0	39.3	
71 Toluene	91	6.515	6.515	0.000	99	1384009	20.0	19.3	
72 trans-1,3-Dichloropropene	75	6.704	6.704	0.000	92	450107	20.0	19.4	
74 Ethyl methacrylate	69	6.775	6.775	0.000	89	458650	20.0	20.5	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	90	277803	20.0	19.5	
76 Tetrachloroethene	166	7.000	7.000	0.000	96	377626	20.0	19.8	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	88	490824	20.0	19.5	
78 2-Hexanone	43	7.095	7.095	0.000	93	674546	40.0	39.4	
80 Chlorodibromomethane	129	7.225	7.225	0.000	90	298689	20.0	20.2	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	304693	20.0	19.9	
83 Chlorobenzene	112	7.781	7.781	0.000	96	892667	20.0	19.3	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	316979	20.0	19.6	
85 Ethylbenzene	106	7.876	7.876	0.000	98	512928	20.0	19.9	
86 m-Xylene & p-Xylene	106	7.982	7.982	0.000	99	646378	20.0	20.2	
87 o-Xylene	106	8.361	8.361	0.000	95	648657	20.0	20.1	
88 Styrene	104	8.373	8.373	0.000	95	1042824	20.0	20.1	
89 Bromoform	173	8.550	8.550	0.000	97	228364	20.0	21.4	
90 Isopropylbenzene	105	8.704	8.704	0.000	95	1698359	20.0	20.2	
92 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	86	473524	20.0	20.7	
93 Bromobenzene	156	9.000	9.000	0.000	87	400745	20.0	19.9	
95 1,2,3-Trichloropropane	110	9.047	9.047	0.000	84	173052	20.0	20.0	
94 trans-1,4-Dichloro-2-buten	53	9.047	9.047	0.000	93	148061	20.0	20.0	
96 N-Propylbenzene	120	9.107	9.107	0.000	98	470058	20.0	20.5	
97 2-Chlorotoluene	126	9.189	9.189	0.000	97	385627	20.0	20.1	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	1351432	20.0	20.5	
99 4-Chlorotoluene	126	9.296	9.296	0.000	97	390042	20.0	19.7	
102 tert-Butylbenzene	119	9.592	9.592	0.000	91	1219799	20.0	20.3	
104 1,2,4-Trimethylbenzene	105	9.639	9.639	0.000	96	1387358	20.0	20.3	
105 sec-Butylbenzene	105	9.805	9.805	0.000	93	1774243	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	777449	20.0	19.6	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	1531521	20.0	20.5	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	96	792152	20.0	19.4	
111 n-Butylbenzene	91	10.349	10.349	0.000	97	1300578	20.0	20.4	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	99	748334	20.0	19.5	
113 1,2-Dibromo-3-Chloropropan	157	11.142	11.142	0.000	90	148124	20.0	19.8	
115 1,2,4-Trichlorobenzene	180	11.946	11.946	0.000	94	494279	20.0	18.4	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	224541	20.0	18.9	
117 Naphthalene	128	12.195	12.195	0.000	97	1637491	20.0	19.5	
118 1,2,3-Trichlorobenzene	180	12.443	12.443	0.000	96	456339	20.0	18.4	
S 124 Trihalomethanes, Total	1				0		80.0	81.6	
S 125 Total BTEX	1				0		100.0	99.1	
S 128 Xylenes, Total	106				0		40.0	40.3	

Reagents:

vm50is_stk_A_00003	Amount Added:	2.00	Units: uL
vmrgas_00291	Amount Added:	16.00	Units: uL
vm50ss_00362	Amount Added:	16.00	Units: uL
vmarolistdw_00294	Amount Added:	16.00	Units: uL
vmrprimw_00331	Amount Added:	16.00	Units: uL

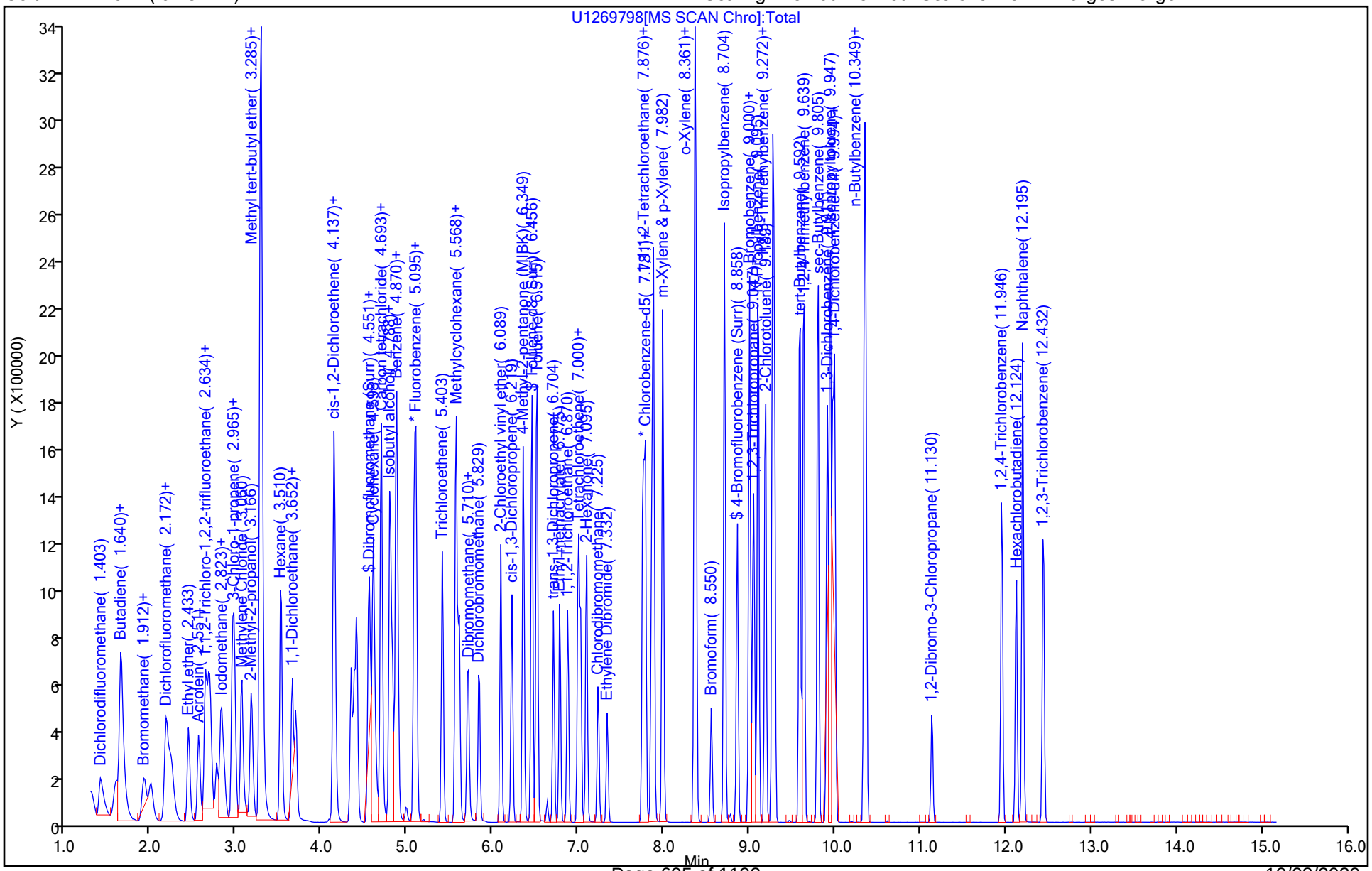
Report Date: 30-Apr-2019 17:22:59 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269798.D

Injection Date:	30-Apr-2019 15:17:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	ICIS L4			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269799.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Apr-2019 15:39:30 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-012
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Apr-2019 17:23:11 Calib Date: 30-Apr-2019 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0333

First Level Reviewer: laveyt Date: 30-Apr-2019 16:01:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1239226	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.757	7.758	-0.001	85	833142	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	93	455662	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	94	158064	10.0	9.59	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	96	176503	10.0	9.53	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	580962	10.0	9.84	
$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	93	211821	10.0	9.74	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	100	224597	10.0	9.41	
10 Chloromethane	50	1.581	1.581	0.000	98	214265	10.0	10.2	
11 Butadiene	54	1.640	1.640	0.000	86	222795	10.0	9.70	
12 Vinyl chloride	62	1.675	1.675	0.000	97	233314	10.0	9.99	
14 Bromomethane	94	1.912	1.912	0.000	90	151619	10.0	10.5	
15 Chloroethane	64	1.995	1.995	0.000	99	148379	10.0	10.1	
16 Dichlorofluoromethane	67	2.172	2.172	0.000	97	299518	10.0	10.2	
17 Trichlorofluoromethane	101	2.220	2.220	0.000	98	261265	10.0	10.0	
19 Ethyl ether	59	2.433	2.433	0.000	89	157567	10.0	10.1	
20 Acrolein	56	2.551	2.551	0.000	100	239777	50.0	51.3	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	98	255094	10.0	9.96	
22 1,1,2-Trichloro-1,2,2-trif	101	2.669	2.669	0.000	93	171045	10.0	10.1	
23 Acetone	43	2.693	2.693	0.000	100	195589	20.0	20.4	
24 Iodomethane	142	2.764	2.764	0.000	97	265387	10.0	9.75	
25 Carbon disulfide	76	2.823	2.823	0.000	99	563594	10.0	9.56	
27 3-Chloro-1-propene	41	2.953	2.953	0.000	93	284969	10.0	9.76	
28 Methyl acetate	43	2.977	2.977	0.000	97	426943	20.0	19.8	
29 Methylene Chloride	49	3.060	3.060	0.000	91	262888	10.0	9.85	
30 2-Methyl-2-propanol	59	3.166	3.166	0.000	100	452013	100.0	99.6	
31 Acrylonitrile	53	3.273	3.273	0.000	99	1113771	100.0	99.3	
32 trans-1,2-Dichloroethene	61	3.284	3.285	-0.001	69	248232	10.0	9.86	
33 Methyl tert-butyl ether	73	3.296	3.285	0.011	94	533312	10.0	10.2	
34 Hexane	57	3.521	3.510	0.011	89	279012	10.0	10.2	
35 1,1-Dichloroethane	63	3.651	3.652	-0.001	95	315456	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.687	0.000	97	346293	10.0	9.81	
41 2,2-Dichloropropane	77	4.136	4.137	-0.001	61	202782	10.0	9.95	
40 cis-1,2-Dichloroethene	96	4.136	4.137	-0.001	80	211496	10.0	9.91	
42 2-Butanone (MEK)	72	4.148	4.149	-0.001	98	78345	20.0	20.3	
46 Chlorobromomethane	49	4.338	4.338	0.000	94	146065	10.0	9.77	
47 Tetrahydrofuran	42	4.373	4.373	0.000	86	185955	20.0	20.0	
48 Chloroform	83	4.409	4.397	0.012	93	299618	10.0	9.98	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	98	258363	10.0	10.0	
50 Cyclohexane	84	4.598	4.598	0.000	87	324586	10.0	10.4	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	96	255221	10.0	10.0	
52 Carbon tetrachloride	117	4.693	4.693	0.000	80	212237	10.0	9.69	
53 Isobutyl alcohol	41	4.787	4.788	-0.001	95	312412	250.0	253.6	
54 Benzene	78	4.870	4.870	0.000	95	727951	10.0	9.98	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	214099	10.0	9.53	
57 n-Heptane	57	5.071	5.071	0.000	89	171315	10.0	10.3	
59 Trichloroethene	130	5.403	5.403	0.000	97	187506	10.0	9.60	
61 Methylcyclohexane	83	5.568	5.568	0.000	86	361953	10.0	10.3	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	94	154817	10.0	10.0	
64 Dibromomethane	174	5.710	5.710	0.000	93	122075	10.0	9.34	
65 1,4-Dioxane	88	5.722	5.722	0.000	89	58179	200.0	234.7	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	208118	10.0	9.89	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	230721	20.0	20.6	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	97	248543	10.0	9.70	
70 4-Methyl-2-pentanone (MIBK	43	6.349	6.349	0.000	95	479830	20.0	20.2	
71 Toluene	91	6.515	6.515	0.000	99	693965	10.0	9.95	
72 trans-1,3-Dichloropropene	75	6.704	6.704	0.000	92	219235	10.0	9.71	
74 Ethyl methacrylate	69	6.775	6.775	0.000	88	229870	10.0	10.6	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	89	138863	10.0	10.0	
76 Tetrachloroethene	166	7.000	7.000	0.000	96	186459	10.0	10.1	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	88	244890	10.0	9.97	
78 2-Hexanone	43	7.095	7.095	0.000	93	347483	20.0	20.9	
80 Chlorodibromomethane	129	7.225	7.225	0.000	90	141322	10.0	9.82	
81 Ethylene Dibromide	107	7.331	7.332	-0.001	99	146267	10.0	9.81	
83 Chlorobenzene	112	7.781	7.781	0.000	96	442384	10.0	9.83	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	154999	10.0	9.86	
85 Ethylbenzene	106	7.876	7.876	0.000	98	254036	10.0	10.1	
86 m-Xylene & p-Xylene	106	7.982	7.982	0.000	99	314453	10.0	10.1	
87 o-Xylene	106	8.361	8.361	0.000	95	311889	10.0	9.90	
88 Styrene	104	8.373	8.373	0.000	94	501125	10.0	9.92	
89 Bromoform	173	8.550	8.550	0.000	97	103500	10.0	9.94	
90 Isopropylbenzene	105	8.704	8.704	0.000	95	836910	10.0	10.2	
92 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	86	237420	10.0	10.6	
93 Bromobenzene	156	9.000	9.000	0.000	89	192642	10.0	9.76	
95 1,2,3-Trichloropropane	110	9.047	9.047	0.000	84	84888	10.0	10.0	
94 trans-1,4-Dichloro-2-buten	53	9.047	9.047	0.000	80	71337	10.0	9.82	
96 N-Propylbenzene	120	9.106	9.107	-0.001	99	227545	10.0	10.1	
97 2-Chlorotoluene	126	9.189	9.189	0.000	97	187392	10.0	9.95	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	660502	10.0	10.2	
99 4-Chlorotoluene	126	9.296	9.296	0.000	99	190484	10.0	9.80	
102 tert-Butylbenzene	119	9.591	9.592	-0.001	91	597272	10.0	10.2	
104 1,2,4-Trimethylbenzene	105	9.639	9.639	0.000	96	681127	10.0	10.2	
105 sec-Butylbenzene	105	9.804	9.805	-0.001	93	878572	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	376754	10.0	9.69	
107 4-Isopropyltoluene	119	9.946	9.947	-0.001	97	745472	10.0	10.2	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	379011	10.0	9.47	
111 n-Butylbenzene	91	10.349	10.349	0.000	96	629870	10.0	10.1	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	99	360738	10.0	9.57	
113 1,2-Dibromo-3-Chloropropan	157	11.142	11.142	0.000	89	71305	10.0	9.74	
115 1,2,4-Trichlorobenzene	180	11.958	11.946	0.012	94	233740	10.0	8.87	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	96	102755	10.0	8.83	
117 Naphthalene	128	12.195	12.195	0.000	97	784648	10.0	9.51	
118 1,2,3-Trichlorobenzene	180	12.443	12.443	0.000	96	212164	10.0	8.70	
S 124 Trihalomethanes, Total	1				0		40.0	39.6	
S 125 Total BTEX	1				0		50.0	50.0	
S 126 1,2-Dichloroethene, Total	96				0			19.8	
S 127 1,3-Dichloropropene, Total	75				0			19.4	
S 128 Xylenes, Total	106				0		20.0	20.0	

Reagents:

vm50is_stk_A_00003	Amount Added:	2.00	Units: uL
vmrgas_00291	Amount Added:	8.00	Units: uL
vm50ss_00362	Amount Added:	8.00	Units: uL
vmarolistdw_00294	Amount Added:	8.00	Units: uL
vmrprimw_00331	Amount Added:	8.00	Units: uL

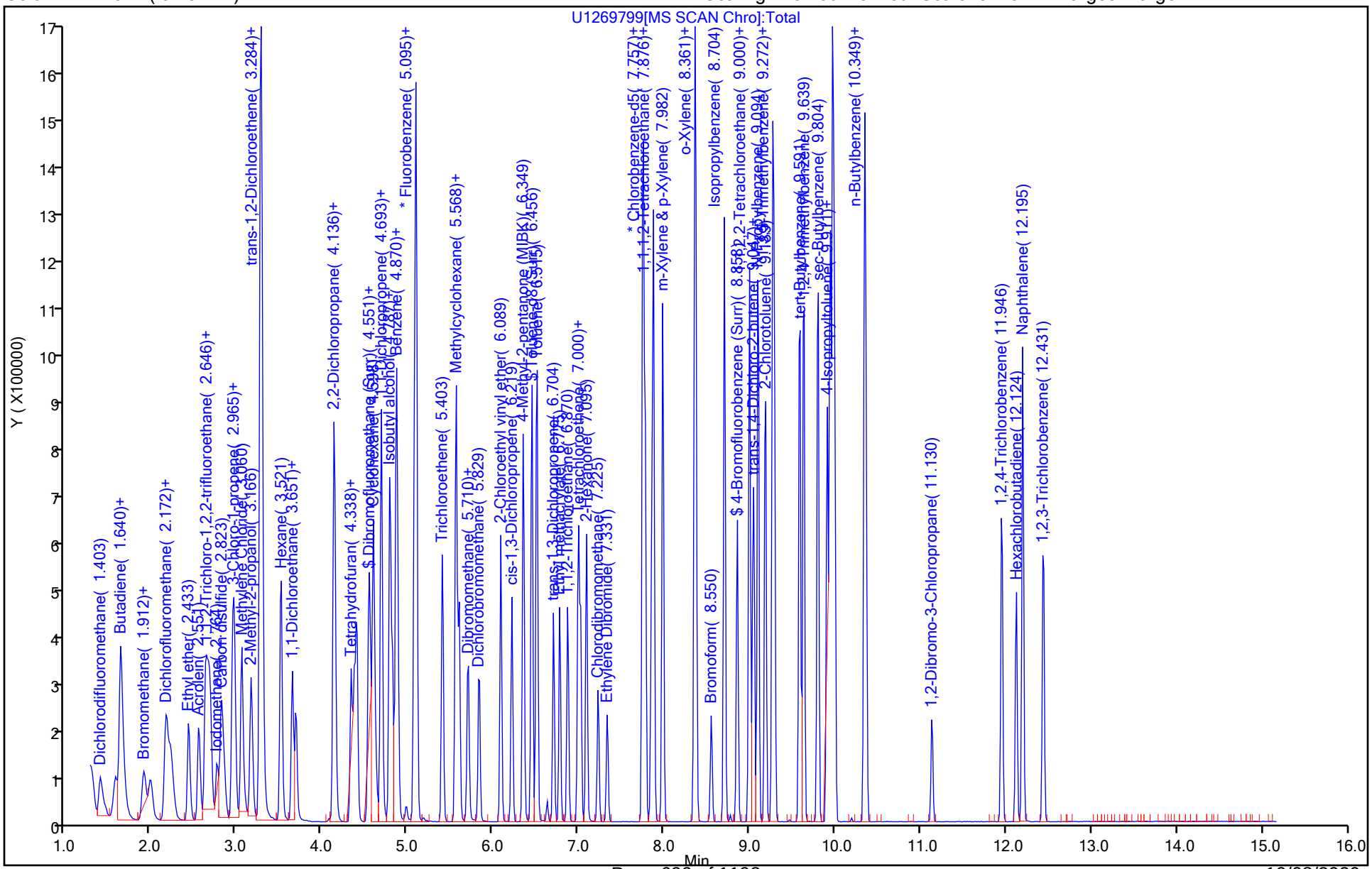
Report Date: 30-Apr-2019 17:23:17 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269799.D

Injection Date:	30-Apr-2019 15:39:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L3			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269800.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Apr-2019 16:02:30 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-013
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Apr-2019 17:23:30 Calib Date: 30-Apr-2019 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0333

First Level Reviewer: laveyt Date: 30-Apr-2019 16:24:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1208766	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	84	823058	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.001	94	473669	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	93	16968	1.00	1.06	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	96	20365	1.00	1.13	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	66709	1.00	1.14	
$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	93	25525	1.00	1.19	
9 Dichlorodifluoromethane	85	1.404	1.403	0.001	95	19984	1.00	0.8588	
10 Chloromethane	50	1.581	1.581	0.000	96	19082	1.00	0.9357	M
11 Butadiene	54	1.640	1.640	0.000	86	21365	1.00	0.9532	
12 Vinyl chloride	62	1.676	1.675	0.001	95	22643	1.00	0.99	
14 Bromomethane	94	1.912	1.912	0.000	87	15275	1.00	1.09	
15 Chloroethane	64	1.995	1.995	0.000	98	14836	1.00	1.04	
16 Dichlorofluoromethane	67	2.173	2.172	0.001	95	29001	1.00	1.01	
17 Trichlorofluoromethane	101	2.220	2.220	0.000	96	23742	1.00	0.9345	
19 Ethyl ether	59	2.433	2.433	0.000	88	15857	1.00	1.04	
20 Acrolein	56	2.563	2.551	0.012	99	22786	5.00	4.99	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	97	25123	1.00	1.01	
22 1,1,2-Trichloro-1,2,2-trif	101	2.670	2.669	0.001	89	15799	1.00	0.9553	
23 Acetone	43	2.693	2.693	0.000	99	35750	2.00	2.01	
24 Iodomethane	142	2.764	2.764	0.000	98	27241	1.00	1.03	
25 Carbon disulfide	76	2.823	2.823	0.000	99	63418	1.00	1.10	
27 3-Chloro-1-propene	41	2.954	2.953	0.001	91	29262	1.00	1.03	
28 Methyl acetate	43	2.977	2.977	0.000	96	43336	2.00	2.06	
29 Methylene Chloride	49	3.060	3.060	0.000	90	76885	1.00	1.02	
30 2-Methyl-2-propanol	59	3.167	3.166	0.001	99	46009	10.0	10.4	
31 Acrylonitrile	53	3.273	3.273	0.000	100	114297	10.0	10.4	
32 trans-1,2-Dichloroethene	61	3.297	3.285	0.012	68	26151	1.00	1.06	
33 Methyl tert-butyl ether	73	3.297	3.285	0.012	93	53530	1.00	1.05	
34 Hexane	57	3.522	3.510	0.012	90	25038	1.00	0.9341	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	95	31501	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.699	3.687	0.012	97	34619	1.00	1.01	
41 2,2-Dichloropropane	77	4.137	4.137	0.000	58	19842	1.00	1.00	
40 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	80	22054	1.00	1.06	
42 2-Butanone (MEK)	72	4.161	4.149	0.012	99	7212	2.00	1.92	
46 Chlorobromomethane	49	4.338	4.338	0.000	92	15161	1.00	1.04	
47 Tetrahydrofuran	42	4.374	4.373	0.001	85	17279	2.00	1.91	
48 Chloroform	83	4.409	4.397	0.012	93	29434	1.00	1.01	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	98	24264	1.00	0.9658	
50 Cyclohexane	84	4.598	4.598	0.000	87	29359	1.00	0.9622	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	96	24613	1.00	0.99	
52 Carbon tetrachloride	117	4.693	4.693	0.000	78	20029	1.00	0.9377	
53 Isobutyl alcohol	41	4.788	4.788	0.000	93	28500	25.0	23.7	
54 Benzene	78	4.871	4.870	0.001	95	72564	1.00	1.02	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	23529	1.00	1.07	
57 n-Heptane	57	5.095	5.071	0.024	87	49490	1.00	0.9500	
59 Trichloroethene	130	5.403	5.403	0.000	94	19135	1.00	1.00	
61 Methylcyclohexane	83	5.569	5.568	0.001	83	31043	1.00	0.9100	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	92	14544	1.00	0.9671	
64 Dibromomethane	174	5.711	5.710	0.001	91	13696	1.00	1.07	
65 1,4-Dioxane	88	5.723	5.722	0.001	27	4063	20.0	16.8	
66 Dichlorobromomethane	83	5.829	5.829	0.000	97	19488	1.00	0.9496	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	91	21468	2.00	1.97	
69 cis-1,3-Dichloropropene	75	6.220	6.219	0.001	95	24819	1.00	0.99	
70 4-Methyl-2-pentanone (MIBK	43	6.350	6.349	0.001	95	46025	2.00	1.99	
71 Toluene	91	6.515	6.515	0.000	99	69512	1.00	1.01	
72 trans-1,3-Dichloropropene	75	6.705	6.704	0.001	91	23230	1.00	1.04	
74 Ethyl methacrylate	69	6.776	6.775	0.001	87	20354	1.00	0.9475	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	91	13079	1.00	0.9554	
76 Tetrachloroethene	166	7.001	7.000	0.000	96	17463	1.00	0.9539	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	90	24096	1.00	0.99	
78 2-Hexanone	43	7.095	7.095	0.000	92	32274	2.00	1.96	
80 Chlorodibromomethane	129	7.225	7.225	0.000	87	13420	1.00	0.9440	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	15068	1.00	1.02	
83 Chlorobenzene	112	7.781	7.781	0.000	95	44396	1.00	1.00	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	93	14884	1.00	0.9579	
85 Ethylbenzene	106	7.876	7.876	0.000	98	24504	1.00	0.9876	
86 m-Xylene & p-Xylene	106	7.983	7.982	0.001	100	30946	1.00	1.01	
87 o-Xylene	106	8.361	8.361	0.000	96	31499	1.00	1.01	
88 Styrene	104	8.373	8.373	0.000	94	46924	1.00	0.9403	
89 Bromoform	173	8.551	8.550	0.001	99	9669	1.00	0.9402	
90 Isopropylbenzene	105	8.704	8.704	0.000	95	78943	1.00	0.9744	
92 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	83	23506	1.00	1.01	
93 Bromobenzene	156	9.000	9.000	0.000	88	20743	1.00	1.01	
95 1,2,3-Trichloropropane	110	9.036	9.047	-0.011	85	9133	1.00	1.04	
94 trans-1,4-Dichloro-2-buten	53	9.048	9.047	0.001	80	7300	1.00	0.9665	
96 N-Propylbenzene	120	9.107	9.107	0.000	98	21478	1.00	0.9194	
97 2-Chlorotoluene	126	9.190	9.189	0.001	97	18750	1.00	0.9582	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	94	62930	1.00	0.9349	
99 4-Chlorotoluene	126	9.296	9.296	0.000	96	20976	1.00	1.04	
102 tert-Butylbenzene	119	9.592	9.592	0.000	91	55395	1.00	0.9059	
104 1,2,4-Trimethylbenzene	105	9.639	9.639	0.000	96	65676	1.00	0.9421	
105 sec-Butylbenzene	105	9.805	9.805	0.000	93	81663	1.00	0.9278	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	97	41679	1.00	1.03	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	72056	1.00	0.9466	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	96	43811	1.00	1.05	
111 n-Butylbenzene	91	10.349	10.349	0.000	97	62232	1.00	0.9586	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	39597	1.00	1.01	
113 1,2-Dibromo-3-Chloropropan	157	11.142	11.142	0.000	85	6783	1.00	0.8913	
115 1,2,4-Trichlorobenzene	180	11.947	11.946	0.001	94	29197	1.00	1.07	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	93	14773	1.00	1.22	
117 Naphthalene	128	12.195	12.195	0.000	96	92597	1.00	1.08	
118 1,2,3-Trichlorobenzene	180	12.444	12.443	0.001	95	27351	1.00	1.08	
S 124 Trihalomethanes, Total	1				0		4.00	3.84	
S 125 Total BTEX	1				0		5.00	5.03	
S 126 1,2-Dichloroethene, Total	96				0			2.12	
S 127 1,3-Dichloropropene, Total	75				0			2.04	
S 128 Xylenes, Total	106				0		2.00	2.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

vm50is_stk_A_00003	Amount Added:	2.00	Units: uL
vmrgas_00291	Amount Added:	0.80	Units: uL
vm50ss_00362	Amount Added:	0.80	Units: uL
vmarolistdw_00294	Amount Added:	0.80	Units: uL
vmrprimw_00331	Amount Added:	0.80	Units: uL

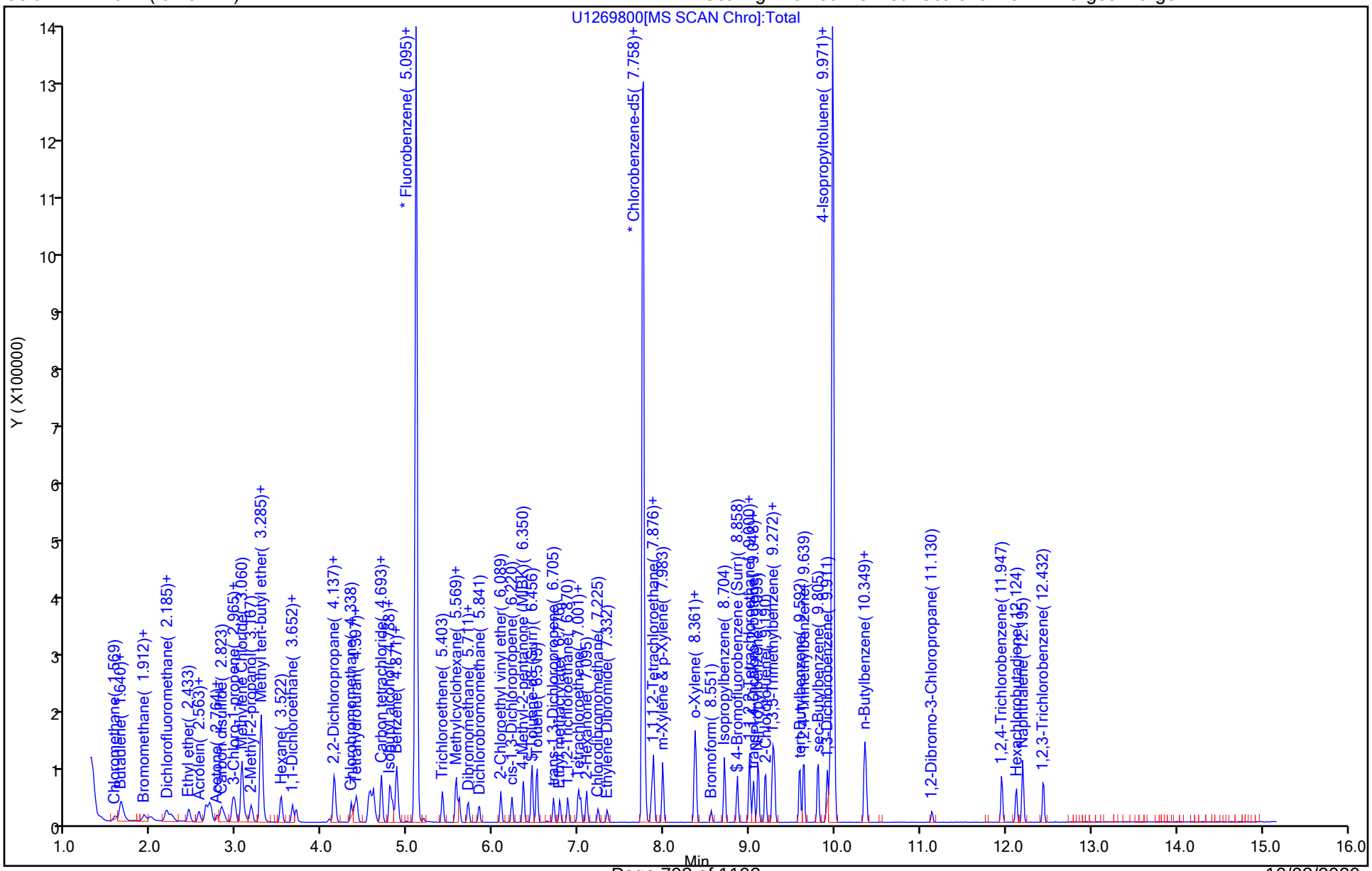
Report Date: 30-Apr-2019 17:23:35 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269800.D

Injection Date:	30-Apr-2019 16:02:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L2			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

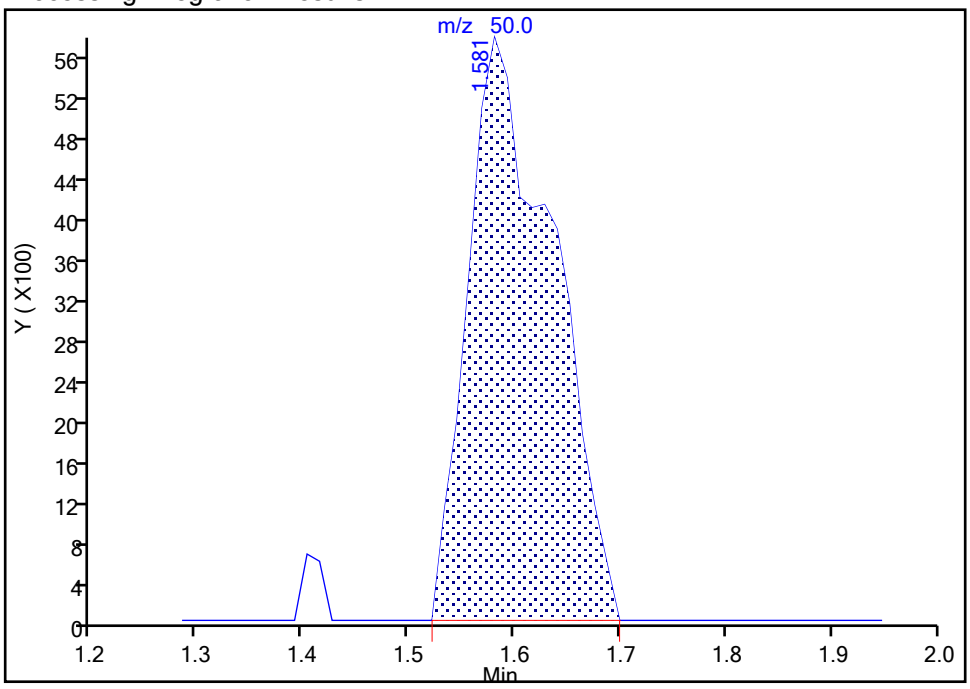
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269800.D
Injection Date: 30-Apr-2019 16:02:30 Instrument ID: A3UX12
Lims ID: std8260 L2
Client ID:
Operator ID: 001904 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

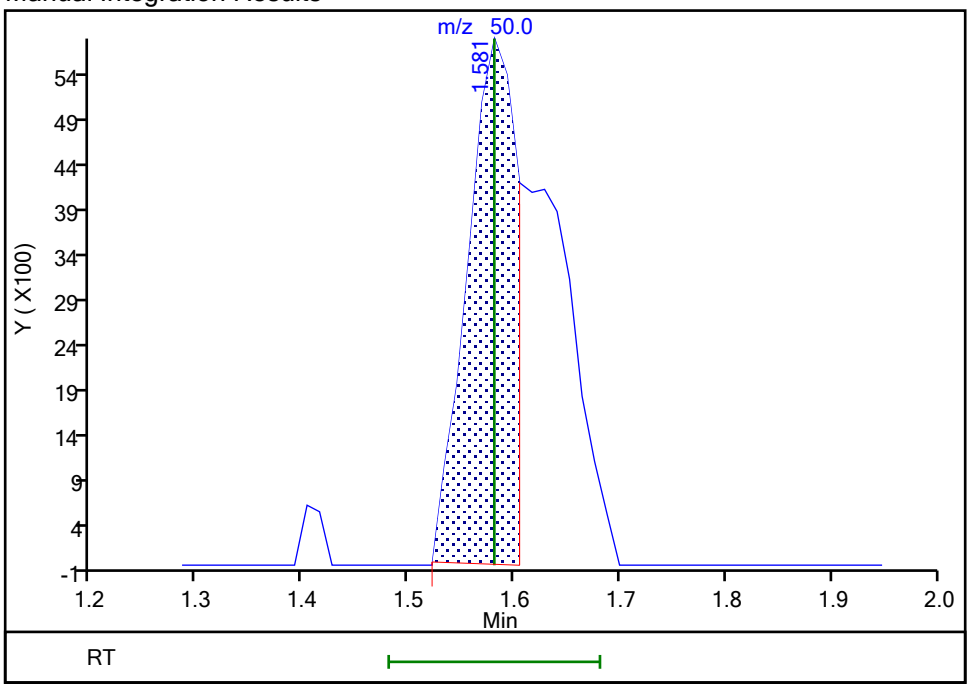
Processing Integration Results

RT: 1.58
Area: 32521
Amount: 1.095929
Amount Units: ug/l



Manual Integration Results

RT: 1.58
Area: 19082
Amount: 0.935716
Amount Units: ug/l



Reviewer: laveyt, 30-Apr-2019 16:22:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Apr-2019 16:24:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-014
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Apr-2019 17:23:43 Calib Date: 30-Apr-2019 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0333

First Level Reviewer: laveyt Date: 30-Apr-2019 16:52:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1216002	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	85	815231	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	464788	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111		4.539				ND	ND	U
$ 5 1,2-Dichloroethane-d4 (Sur	65		4.823				ND	ND	U
$ 6 Toluene-d8 (Surr)	98		6.456				ND	ND	U
$ 7 4-Bromofluorobenzene (Surr	95		8.858				ND	ND	U
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	95	11044	0.5000	0.4718	
10 Chloromethane	50		1.581				ND	ND	U
11 Butadiene	54	1.640	1.640	0.000	84	11073	0.5000	0.4911	
12 Vinyl chloride	62	1.676	1.675	0.001	95	10733	0.5000	0.4681	
14 Bromomethane	94	1.924	1.912	0.012	81	7170	0.5000	0.5066	
15 Chloroethane	64	1.983	1.995	-0.012	93	7695	0.5000	0.5344	
16 Dichlorofluoromethane	67	2.173	2.172	0.001	95	14396	0.5000	0.5004	
17 Trichlorofluoromethane	101	2.220	2.220	0.000	94	12502	0.5000	0.4891	
19 Ethyl ether	59	2.433	2.433	0.000	92	8163	0.5000	0.5316	
20 Acrolein	56	2.551	2.551	0.000	96	11833	2.50	2.58	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	94	13081	0.5000	0.5204	
22 1,1,2-Trichloro-1,2,2-trif	101	2.670	2.669	0.001	55	7988	0.5000	0.4801	
23 Acetone	43		2.693				ND	ND	U
24 Iodomethane	142	2.776	2.764	0.012	93	14045	0.5000	0.5256	
25 Carbon disulfide	76	2.835	2.823	0.012	99	35208	0.5000	0.6085	
27 3-Chloro-1-propene	41	2.954	2.953	0.001	92	16129	0.5000	0.5628	
28 Methyl acetate	43	2.977	2.977	0.000	96	22700	1.00	1.07	
29 Methylene Chloride	49		3.060				ND	ND	U
30 2-Methyl-2-propanol	59	3.167	3.166	0.001	99	24459	5.00	5.49	
31 Acrylonitrile	53	3.285	3.273	0.012	99	59579	5.00	5.41	
32 trans-1,2-Dichloroethene	61	3.297	3.285	0.012	73	13341	0.5000	0.5401	
33 Methyl tert-butyl ether	73	3.297	3.285	0.012	93	26396	0.5000	0.5170	
34 Hexane	57	3.522	3.510	0.012	90	13878	0.5000	0.5147	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	95	15738	0.5000	0.5109	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.687	0.000	96	16963	0.5000	0.4899	
41 2,2-Dichloropropane	77	4.137	4.137	0.000	56	10546	0.5000	0.5275	
40 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	79	10822	0.5000	0.5168	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	99	3739	1.00	0.9870	
46 Chlorobromomethane	49	4.338	4.338	0.000	91	8465	0.5000	0.5769	
47 Tetrahydrofuran	42	4.373	4.373	0.000	86	9753	1.00	1.07	
48 Chloroform	83	4.409	4.397	0.012	92	15213	0.5000	0.5165	
49 1,1,1-Trichloroethane	97	4.563	4.551	0.012	95	11924	0.5000	0.4718	
50 Cyclohexane	84	4.598	4.598	0.000	86	15299	0.5000	0.4984	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	94	13318	0.5000	0.5331	
52 Carbon tetrachloride	117	4.693	4.693	0.000	78	10783	0.5000	0.5018	
53 Isobutyl alcohol	41	4.788	4.788	0.000	93	16262	12.5	13.5	
54 Benzene	78	4.870	4.870	0.000	94	37546	0.5000	0.5243	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	96	11902	0.5000	0.5400	
57 n-Heptane	57		5.071				ND	ND	U
59 Trichloroethene	130	5.403	5.403	0.000	90	10516	0.5000	0.5487	
61 Methylcyclohexane	83	5.569	5.568	0.001	82	17502	0.5000	0.5100	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	93	7613	0.5000	0.5032	
64 Dibromomethane	174	5.711	5.710	0.001	87	7633	0.5000	0.5950	
65 1,4-Dioxane	88	5.722	5.722	0.000	27	2151	10.0	8.84	
66 Dichlorobromomethane	83	5.841	5.829	0.012	95	10242	0.5000	0.4961	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	91	11398	1.00	1.04	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	13273	0.5000	0.5281	
70 4-Methyl-2-pentanone (MIBK	43	6.350	6.349	0.001	93	23343	1.00	1.00	
71 Toluene	91	6.515	6.515	0.000	98	36733	0.5000	0.5384	
72 trans-1,3-Dichloropropene	75	6.705	6.704	0.001	91	11758	0.5000	0.5324	
74 Ethyl methacrylate	69	6.776	6.775	0.001	85	10652	0.5000	0.5006	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	83	7700	0.5000	0.5679	
76 Tetrachloroethene	166	7.000	7.000	0.000	94	9314	0.5000	0.5137	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	87	13441	0.5000	0.5591	
78 2-Hexanone	43	7.095	7.095	0.000	94	16906	1.00	1.04	
80 Chlorodibromomethane	129	7.225	7.225	0.000	86	7003	0.5000	0.4973	
81 Ethylene Dibromide	107	7.332	7.332	0.000	96	7750	0.5000	0.5314	
83 Chlorobenzene	112	7.781	7.781	0.000	97	24288	0.5000	0.5516	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	93	7683	0.5000	0.4992	
85 Ethylbenzene	106	7.876	7.876	0.000	98	12234	0.5000	0.4978	
86 m-Xylene & p-Xylene	106	7.983	7.982	0.001	98	14577	0.5000	0.4781	
87 o-Xylene	106	8.361	8.361	0.000	95	15474	0.5000	0.5021	
88 Styrene	104	8.373	8.373	0.000	94	25585	0.5000	0.5176	
89 Bromoform	173	8.551	8.550	0.000	92	4510	0.5000	0.4427	
90 Isopropylbenzene	105	8.704	8.704	0.000	95	39682	0.5000	0.4945	
92 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	84	10861	0.5000	0.4748	
93 Bromobenzene	156	9.000	9.000	0.000	88	10562	0.5000	0.5244	
95 1,2,3-Trichloropropane	110	9.047	9.047	0.000	84	4202	0.5000	0.4853	
94 trans-1,4-Dichloro-2-buten	53	9.059	9.047	0.012	70	3843	0.5000	0.5185	
96 N-Propylbenzene	120	9.107	9.107	0.000	98	11209	0.5000	0.4890	
97 2-Chlorotoluene	126	9.189	9.189	0.000	96	9330	0.5000	0.4859	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	95	31487	0.5000	0.4767	
99 4-Chlorotoluene	126	9.296	9.296	0.000	97	10044	0.5000	0.5068	
102 tert-Butylbenzene	119	9.592	9.592	0.000	90	28862	0.5000	0.4810	
104 1,2,4-Trimethylbenzene	105	9.639	9.639	0.000	95	33748	0.5000	0.4934	
105 sec-Butylbenzene	105	9.805	9.805	0.000	93	40589	0.5000	0.4699	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	96	21531	0.5000	0.5427	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	96	34741	0.5000	0.4651	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	23084	0.5000	0.5657	
111 n-Butylbenzene	91	10.349	10.349	0.000	95	29814	0.5000	0.4680	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	97	21676	0.5000	0.5636	
113 1,2-Dibromo-3-Chloropropan	157	11.142	11.142	0.000	84	3806	0.5000	0.5097	
115 1,2,4-Trichlorobenzene	180	11.958	11.946	0.012	91	15055	0.5000	0.5604	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	92	6234	0.5000	0.5255	
117 Naphthalene	128	12.195	12.195	0.000	96	45140	0.5000	0.5362	
118 1,2,3-Trichlorobenzene	180	12.444	12.443	0.001	94	14329	0.5000	0.5762	
S 124 Trihalomethanes, Total	1				0		2.00	1.95	
S 125 Total BTEX	1				0		2.50	2.54	
S 126 1,2-Dichloroethene, Total	96				0			1.06	
S 127 1,3-Dichloropropene, Total	75				0			1.06	
S 128 Xylenes, Total	106				0		1.00	0.9802	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00003	Amount Added:	2.00	Units: uL
vmrgas_00291	Amount Added:	0.40	Units: uL
vm50ss_00362	Amount Added:	0.40	Units: uL
vmarolistdw_00294	Amount Added:	0.40	Units: uL
vmrprimw_00331	Amount Added:	0.40	Units: uL

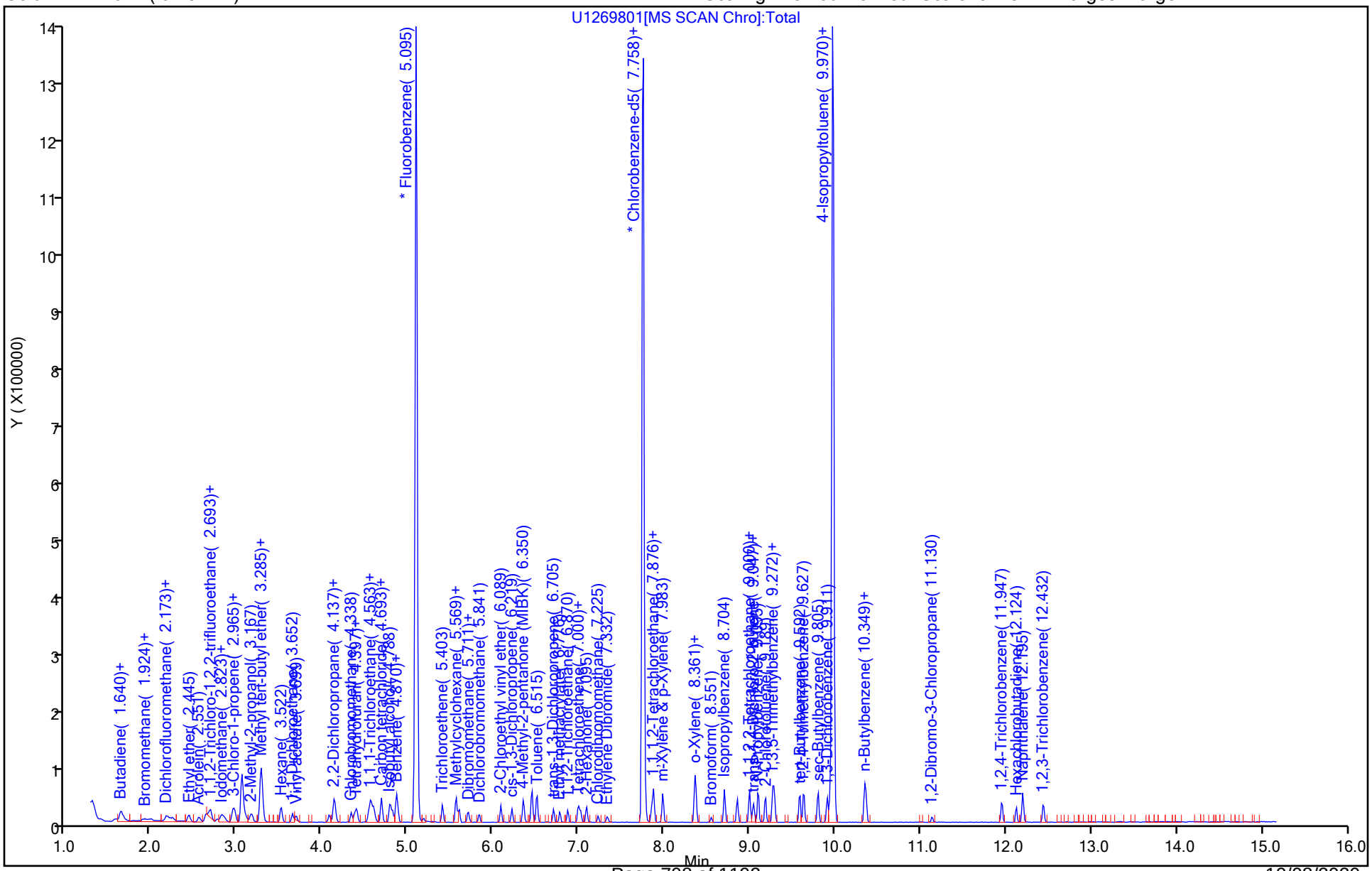
Report Date: 30-Apr-2019 17:23:46 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Injection Date:	30-Apr-2019 16:24:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L1			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



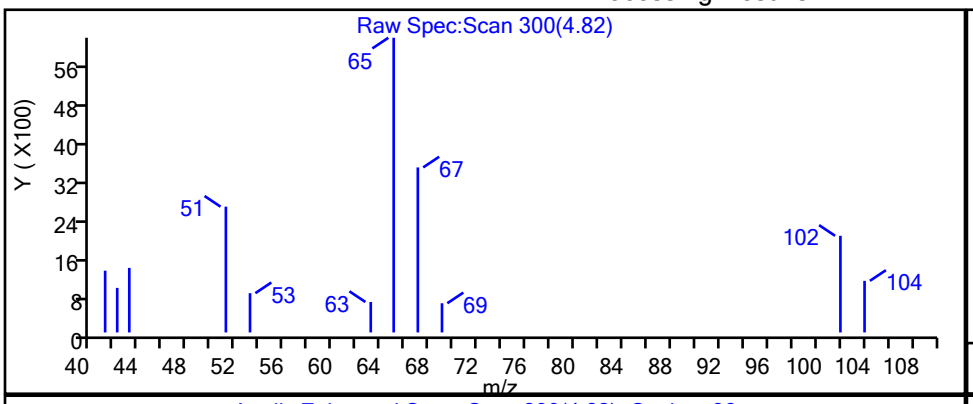
User Disabled Compound Report

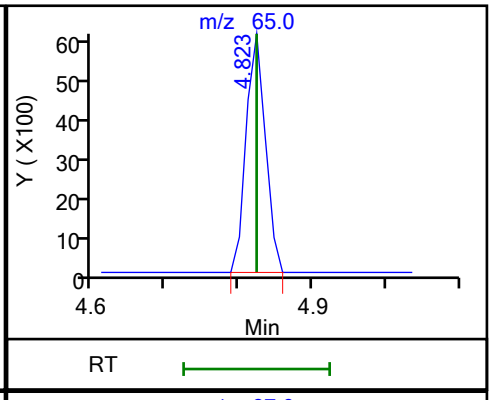
Eurofins TestAmerica, Canton

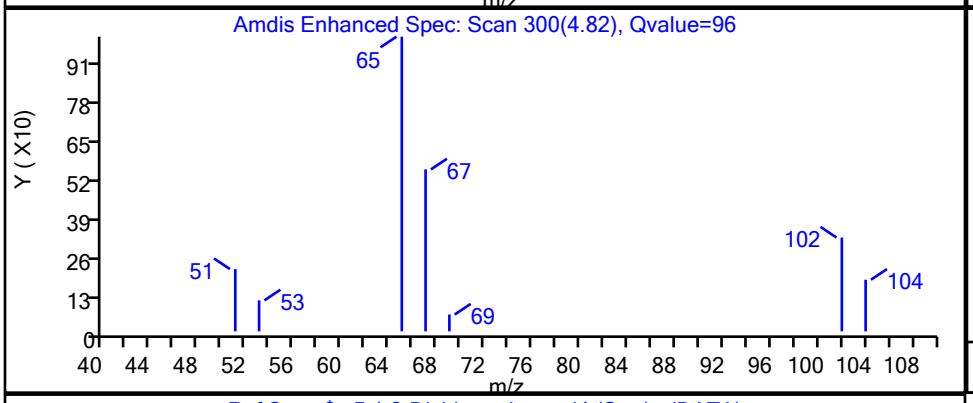
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D
Injection Date: 30-Apr-2019 16:24:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

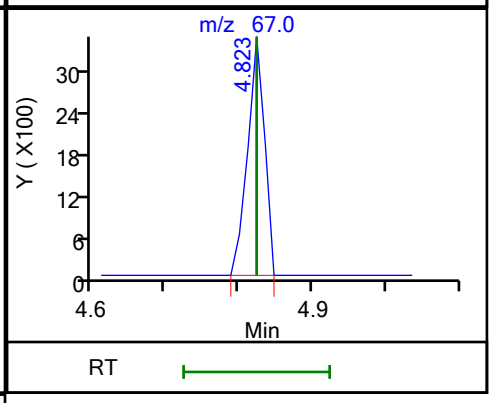
$ 5 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

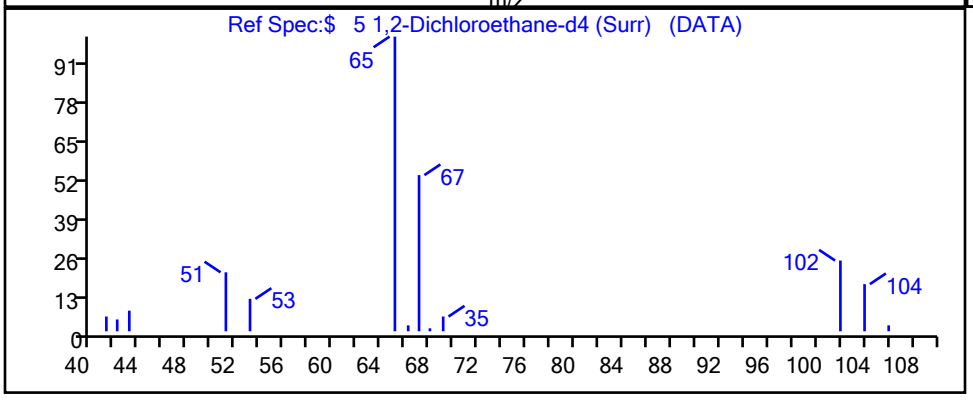
Processing Results











RT	Mass	Response	Amount
4.82	65.00	11177	0.595662
4.82	67.00	5473	

Reviewer: laveyt, 30-Apr-2019 16:51:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

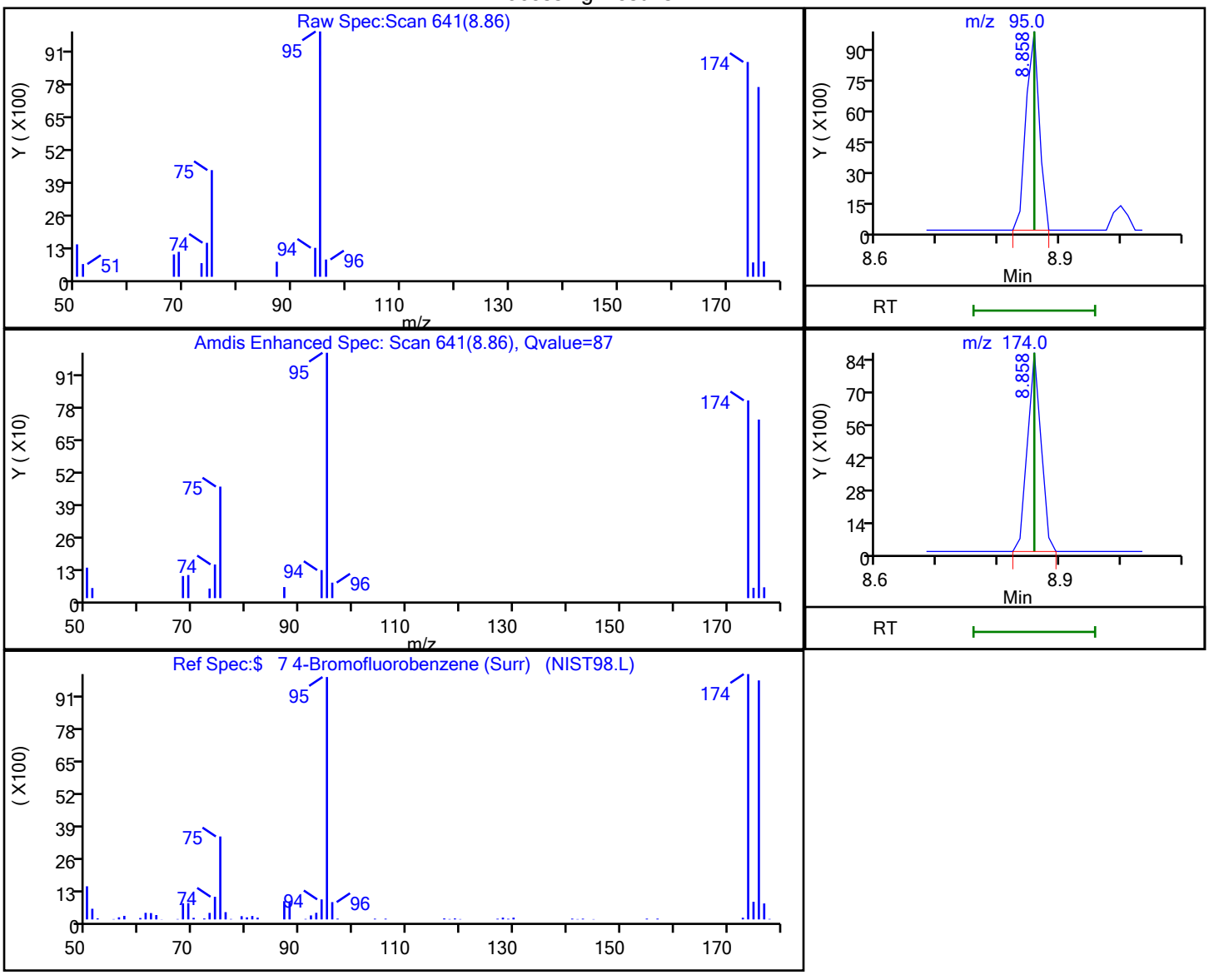
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D
Injection Date: 30-Apr-2019 16:24:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Processing Results



RT	Mass	Response	Amount
8.86	95.00	14951	0.492470
8.86	174.00	13421	

Reviewer: laveyt, 30-Apr-2019 16:52:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

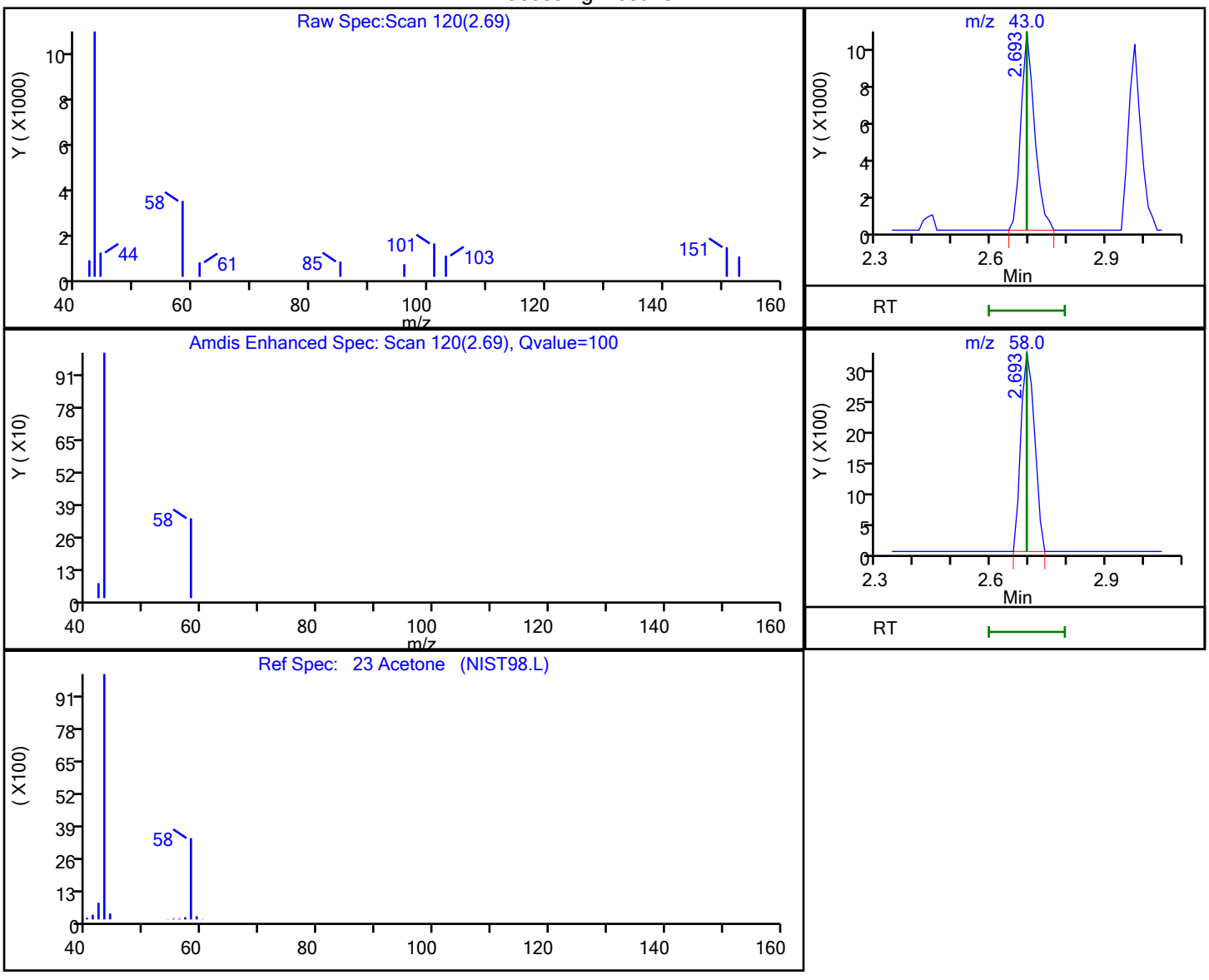
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D
Injection Date: 30-Apr-2019 16:24:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.69	43.00	26506	0.965095
2.69	58.00	8203	

Reviewer: laveyt, 30-Apr-2019 16:45:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

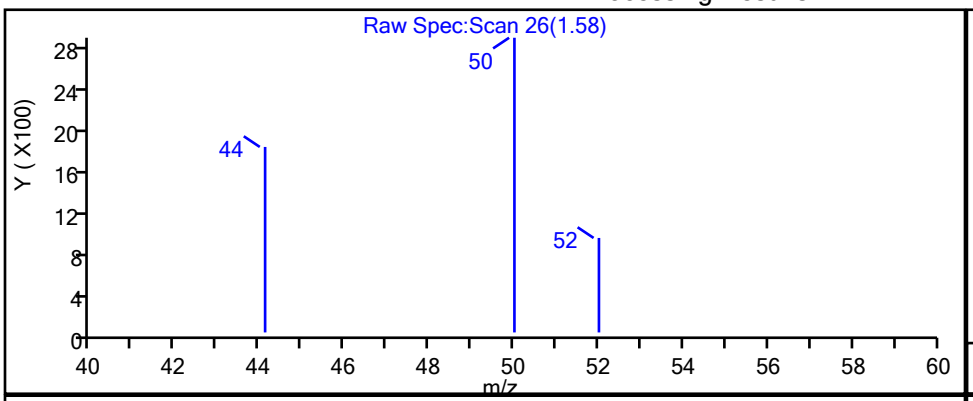
User Disabled Compound Report

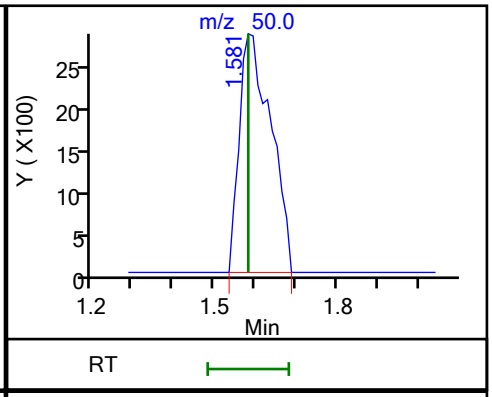
Eurofins TestAmerica, Canton

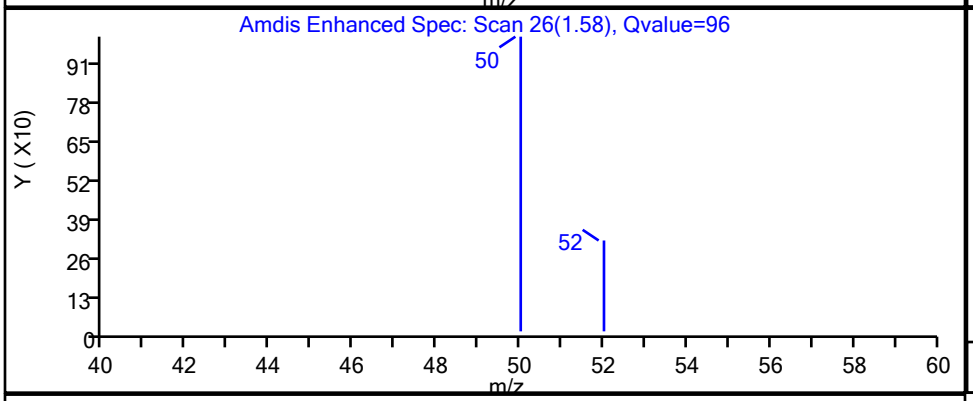
Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D				
Injection Date:	30-Apr-2019 16:24:30	Instrument ID:	A3UX12		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

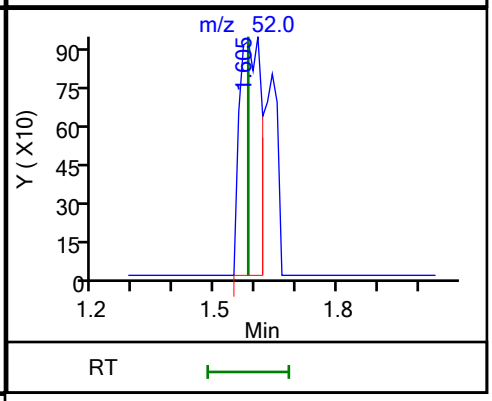
10 Chloromethane, CAS: 74-87-3

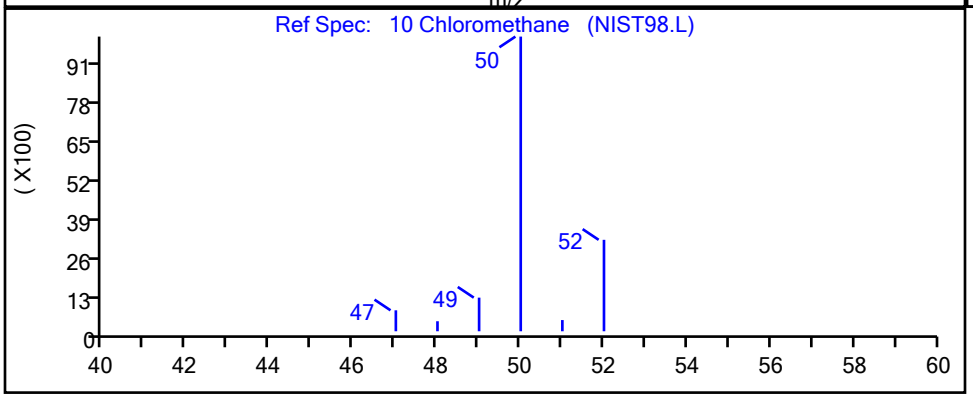
Processing Results











RT	Mass	Response	Amount
1.58	50.00	15543	0.628668
1.60	52.00	3453	

Reviewer: laveyt, 30-Apr-2019 16:44:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

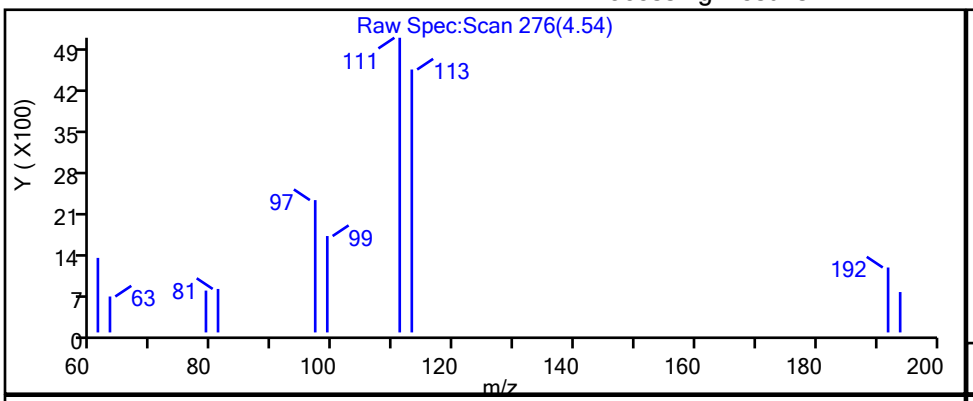
User Disabled Compound Report

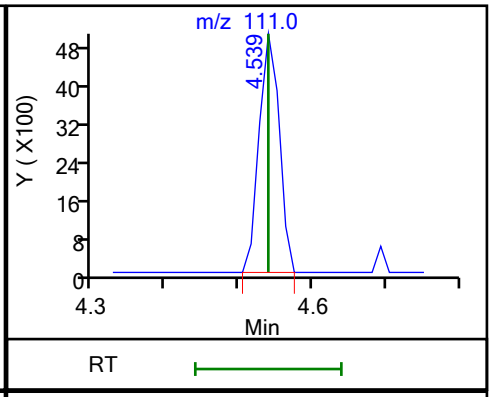
Eurofins TestAmerica, Canton

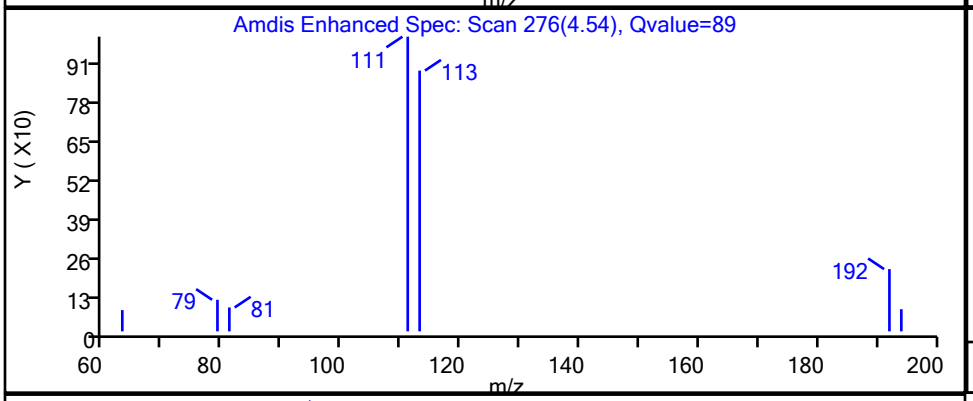
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D
Injection Date: 30-Apr-2019 16:24:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

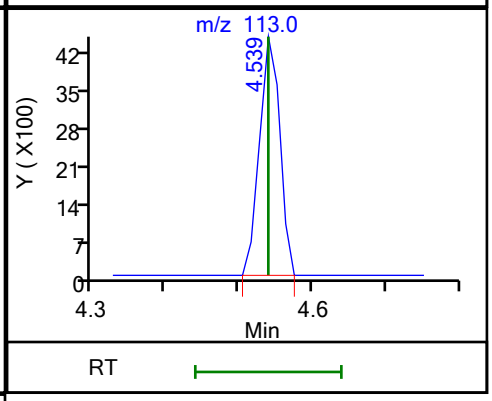
$ 4 Dibromofluoromethane (Surr), CAS: 1868-53-7

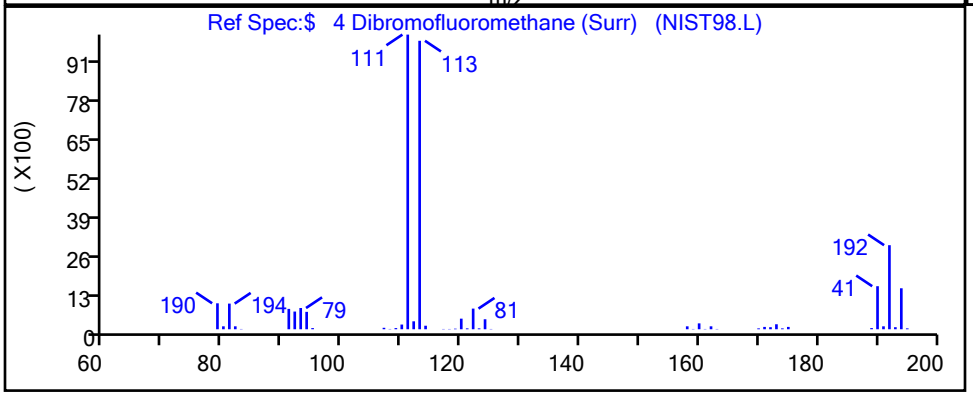
Processing Results











RT	Mass	Response	Amount
4.54	111.00	9661	0.581209
4.54	113.00	8696	

Reviewer: laveyt, 30-Apr-2019 16:51:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

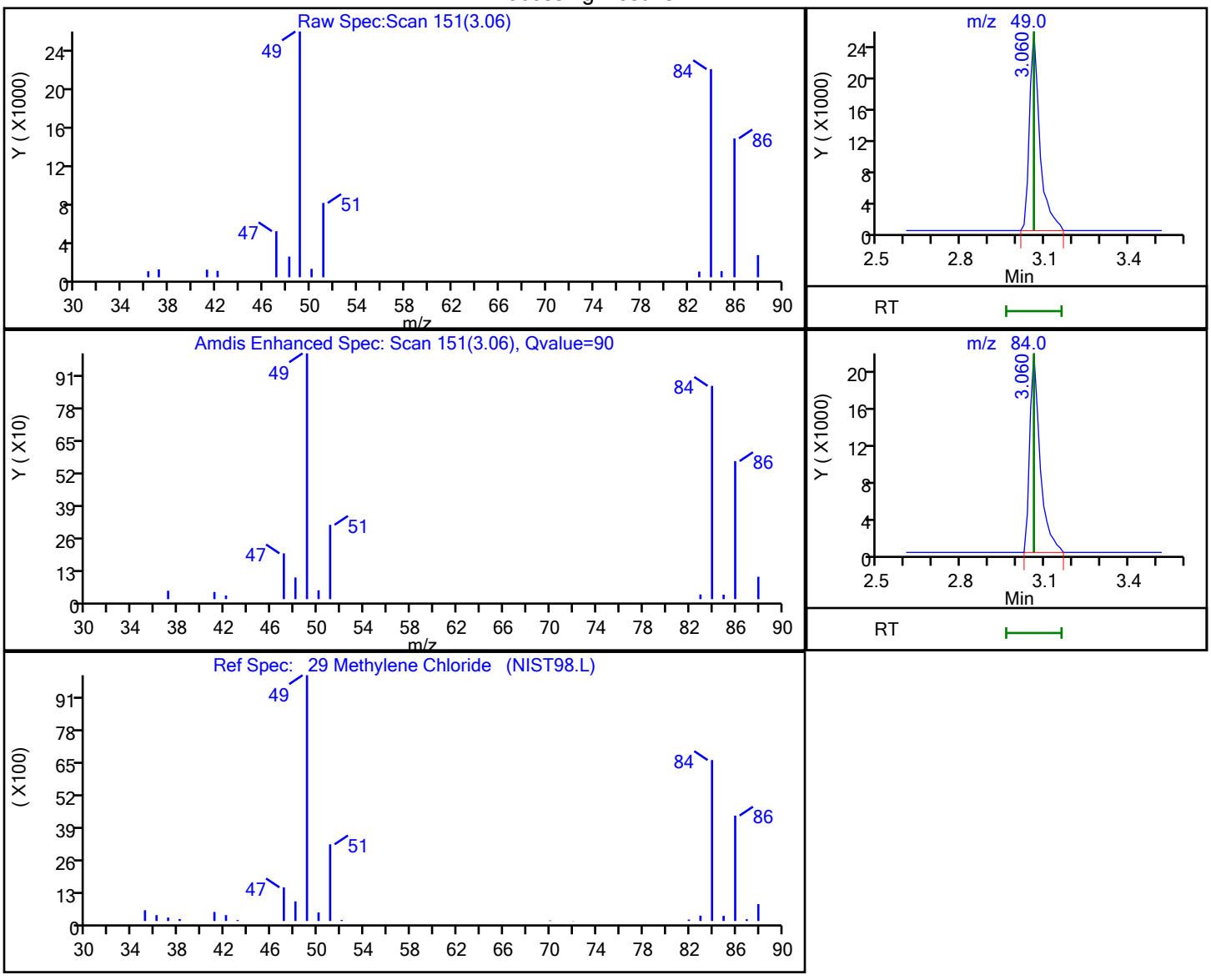
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D
Injection Date: 30-Apr-2019 16:24:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

29 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.06	49.00	66051	0.488334
3.06	84.00	55788	

Reviewer: laveyt, 30-Apr-2019 16:46:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

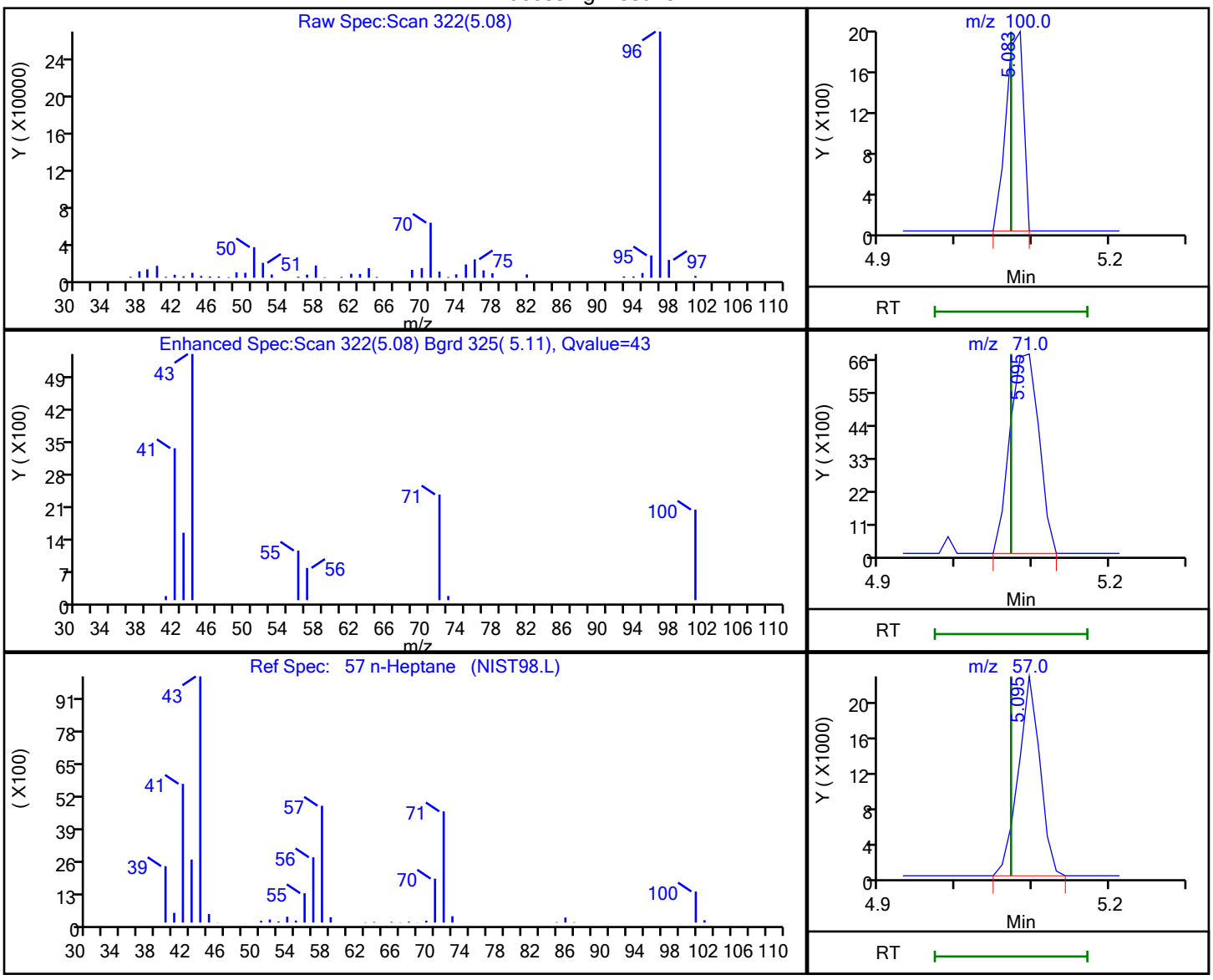
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D
Injection Date: 30-Apr-2019 16:24:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

57 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.08	100.00	3106	
5.10	71.00	17689	
5.10	57.00	43825	0.492830

Reviewer: laveyt, 30-Apr-2019 16:54:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

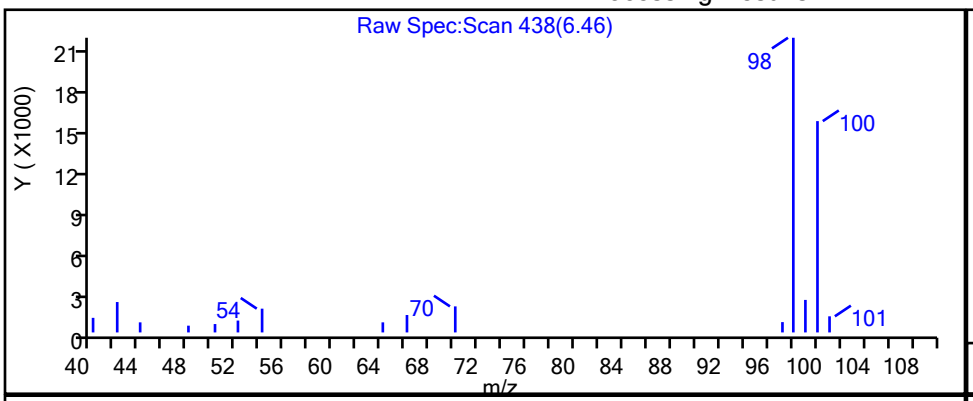
User Disabled Compound Report

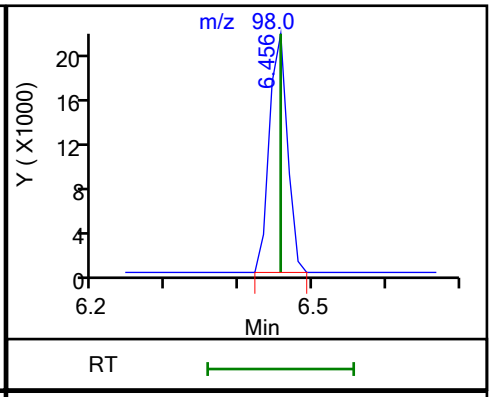
Eurofins TestAmerica, Canton

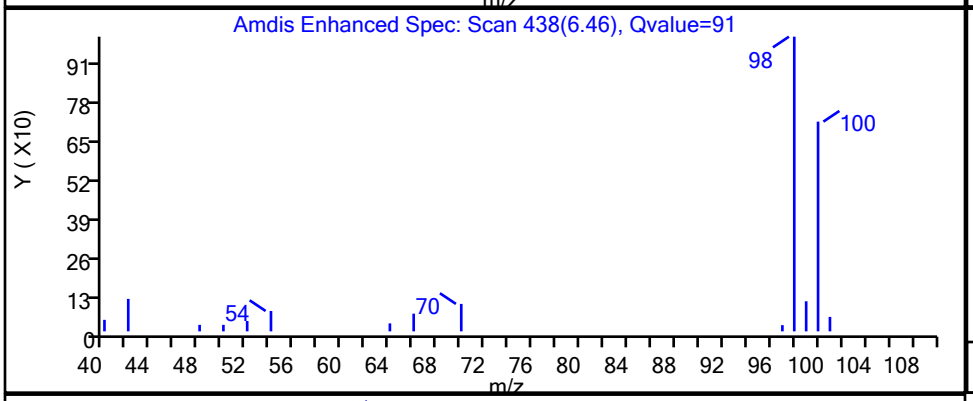
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D
Injection Date: 30-Apr-2019 16:24:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

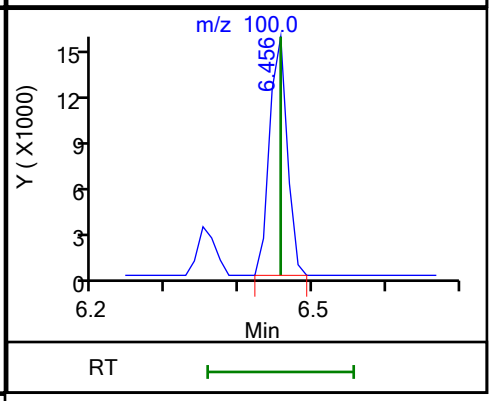
$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

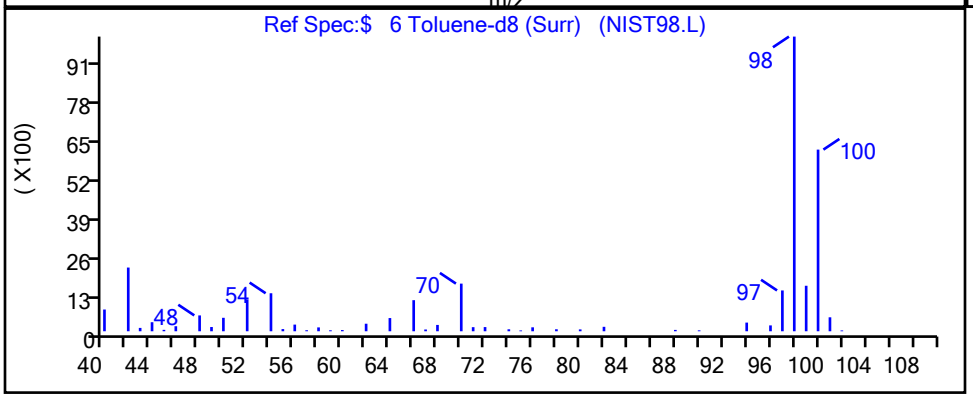
Processing Results











RT	Mass	Response	Amount
6.46	98.00	37355	0.620788
6.46	100.00	26225	

Reviewer: laveyt, 30-Apr-2019 16:52:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-378870/24	U1269811.D
Level 2	STDA9 240-378870/23	U1269810.D
Level 3	STDA9 240-378870/22	U1269809.D
Level 4	STDA9 240-378870/21	U1269808.D
Level 5	STDA9 240-378870/20	U1269807.D
Level 6	STDA9 240-378870/19	U1269806a.D
Level 7	STDA9 240-378870/18	U1269805.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	+++++ 0.0577	0.1078 0.0596	0.0682	0.0691	0.0636	Lin1	0.5602	0.0598				9.5			0.9970		0.9900
Diisopropyl ether	0.2929 0.2738	0.2765 0.2696	0.2366	0.2613	0.2780	Ave		0.2698				6.5		20.0			
2-Chloro-1,3-butadiene	0.4786 0.4680	0.4584 0.4733	0.3826	0.4441	0.4787	Ave		0.4548				7.5		20.0			
Ethyl-t-butyl ether (ETBE)	0.9231 0.8774	0.9560 0.8757	0.7996	0.8502	0.8967	Ave		0.8827				5.7		20.0			
Ethyl acetate	0.3760 0.3469	0.3982 0.3449	0.3438	0.3893	0.3652	Ave		0.3663				6.1		20.0			
Propionitrile	+++++ 0.0732	0.1272 0.0718	0.0809	0.0836	0.0763	Lin1	0.6174	0.0731				7.6			0.9980		0.9900
Methacrylonitrile	0.2701 0.2172	0.3179 0.2133	0.2341	0.2476	0.2295	Ave		0.2471				14.8		20.0			
Tert-amyl-methyl ether (TAME)	0.9292 0.8961	1.0049 0.8887	0.8413	0.8660	0.9194	Ave		0.9065				5.8		20.0			
n-Butanol	+++++ 0.0209	0.0329 0.0206	0.0222	0.0238	0.0217	Ave		0.0237				19.8		20.0			
Ethyl acrylate	0.3529 0.3862	0.3726 0.3785	0.3551	0.4376	0.4033	Ave		0.3838				7.7		20.0			
Methyl methacrylate	0.2476 0.2428	0.2675 0.2448	0.2382	0.2817	0.2626	Ave		0.2550				6.2		20.0			
2-Nitropropane	0.0709 0.0758	0.0875 0.0776	0.0674	0.0807	0.0782	Ave		0.0769				8.5		20.0			
n-Butyl acetate	0.6652 0.7069	0.7222 0.6984	0.6558	0.7261	0.7418	Ave		0.7023				4.5		20.0			
1-Chlorohexane	0.6537 0.5756	0.5752 0.5744	0.4577	0.5686	0.5992	Ave		0.5721				10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	+++++ 0.0254	0.0488 0.0260	0.0323	0.0327	0.0271	Lin1	0.2887	0.0263				16.6			0.9940		0.9900
Pentachloroethane	0.4041 0.4805	0.3994 0.4895	0.3847	0.4448	0.5013	Ave		0.4435				10.8		20.0			
1,2,3-Trimethylbenzene	3.0615 3.0093	2.9218 3.0278	2.5419	2.9248	3.1903	Ave		2.9539				6.9		20.0			
Benzyl chloride	2.0905 2.1764	2.1592 2.2087	1.9104	2.1155	2.2664	Ave		2.1325				5.3		20.0			
1,3,5-Trichlorobenzene	1.4854 1.1716	1.4735 1.1754	1.0388	1.2095	1.2541	Ave		1.2583				13.1		20.0			
2-Methylnaphthalene	+++++ 1.7667	4.7158 1.7419	2.2446	2.4328	1.9992	Ave		2.4835				45.3	*	20.0			
1-Chloro-1-fluoroethane TIC	0.2127 0.2309	0.2361 0.2314	0.1893	0.2219	0.2344	Ave		0.2224				7.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-378870/24	U1269811.D
Level 2	STDA9 240-378870/23	U1269810.D
Level 3	STDA9 240-378870/22	U1269809.D
Level 4	STDA9 240-378870/21	U1269808.D
Level 5	STDA9 240-378870/20	U1269807.D
Level 6	STDA9 240-378870/19	U1269806a.D
Level 7	STDA9 240-378870/18	U1269805.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Lin1	+++++ 2101087	63285 2937339	409382	871009	1532543	+++++ 600	10.0 800	100	200	400
Diisopropyl ether	FB	Ave	8647 996957	16227 1328252	141946	329172	669786	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	14129 1704173	26905 2331461	229589	559516	1153399	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	27251 3195035	56113 4314222	479805	1071213	2160558	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl acetate	FB	Ave	22198 2526193	46743 3398125	412608	980925	1760036	1.00 120	2.00 160	20.0	40.0	80.0
Propionitrile	FB	Lin1	+++++ 2665338	74659 3538021	485430	1053523	1837399	+++++ 600	10.0 800	100	200	400
Methacrylonitrile	FB	Ave	79733 7907632	186608 10507625	1404926	3119038	5530137	5.00 600	10.0 800	100	200	400
Tert-amyl-methyl ether (TAME)	FB	Ave	27432 3262969	58983 4378322	504826	1091058	2215191	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butanol	FB	Ave	+++++ 1898282	48347 2536242	333535	748361	1305583	+++++ 1500	25.0 2000	250	500	1000
Ethyl acrylate	FB	Ave	10419 1406385	21871 1864766	213092	551287	971753	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	14620 1767987	31407 2411882	285867	709925	1265557	1.00 120	2.00 160	20.0	40.0	80.0
2-Nitropropane	FB	Ave	4184 551865	10267 764598	80875	203229	377049	1.00 120	2.00 160	20.0	40.0	80.0
n-Butyl acetate	CBNZ d5	Ave	12754 1668759	27432 2199815	254037	629474	1173240	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	12533 1358865	21851 1809238	177328	492974	947724	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexanone	CBNZ d5	Lin1	+++++ 599459	18555 818532	124978	283168	429161	+++++ 600	10.0 800	100	200	400

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Pentachloroethane	DCBd 4	Ave	8865 1304124	17876 1762320	166979	425029	878170	1.00 120	2.00 160	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	33584 4083704	65393 5450282	551639	1397402	2794328	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	22933 2953444	48324 3975844	414592	1010740	1985115	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	16295 1589890	32979 2115775	225441	577890	1098427	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	+++++ 4794940	211087 6271239	974233	2324694	3502147	+++++ 120	2.00 160	20.0	40.0	80.0
1-Chloro-1-fluoroethane TIC	FB	Ave	6280 840871	13857 1139881	113596	279594	564873	0.500 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 378870

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2019 17:52 Calibration End Date: 04/30/2019 20:05 Calibration ID: 50829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-378870/24	U1269811.D
Level 2	STDA9 240-378870/23	U1269810.D
Level 3	STDA9 240-378870/22	U1269809.D
Level 4	STDA9 240-378870/21	U1269808.D
Level 5	STDA9 240-378870/20	U1269807.D
Level 6	STDA9 240-378870/19	U1269806a.D
Level 7	STDA9 240-378870/18	U1269805.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetonitrile	+++++	-13.3						50				
Propionitrile	+++++	-10.5						50				
Cyclohexanone	+++++	-23.9						50				

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269805.D
Lims ID: stdA9 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Apr-2019 17:52:30 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-018
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub1

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-May-2019 13:34:26 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0337

First Level Reviewer: laveyt Date: 01-May-2019 13:23:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1231609	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	59	787472	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.971	-0.001	94	450019	20.0	20.0	
13 1-Chloro-1-fluoroethane TI	47	1.912	1.912	0.000	100	1139881	80.0	83.2	
26 Acetonitrile	41	2.930	2.942	-0.012	99	2937339	800.0	788.6	
37 Isopropyl ether	87	3.699	3.699	0.000	94	1328252	80.0	79.9	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	90	2331461	80.0	83.2	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	96	4314222	80.0	79.4	
43 Ethyl acetate	43	4.196	4.196	0.000	99	3398125	160.0	150.6	
44 Propionitrile	54	4.208	4.208	0.000	99	3538021	800.0	777.4	
45 Methacrylonitrile	41	4.338	4.326	0.012	90	10507625	800.0	690.5	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	98	4378322	80.0	78.4	
58 n-Butanol	56	5.344	5.344	0.000	84	2536242	2000.0	1739.5	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	1864766	80.0	78.9	
63 Methyl methacrylate	41	5.687	5.687	0.000	89	2411882	160.0	153.6	
67 2-Nitropropane	41	6.030	6.030	0.000	99	764598	160.0	161.6	
79 n-Butyl acetate	43	7.202	7.202	0.000	97	2199815	80.0	79.5	
82 1-Chlorohexane	91	7.746	7.746	0.000	96	1809238	80.0	80.3	
91 Cyclohexanone	55	8.799	8.799	0.000	92	818532	800.0	780.9	
103 Pentachloroethane	167	9.615	9.604	0.011	92	1762320	160.0	176.6	
109 1,2,3-Trimethylbenzene	105	10.041	10.042	-0.001	98	5450282	80.0	82.0	
110 Benzyl chloride	91	10.136	10.136	0.000	98	3975844	80.0	82.9	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	98	2115775	80.0	74.7	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	93	6271239	160.0	112.2	

Reagents:

vm50is_stk_A_00003 Amount Added: 2.00 Units: uL
vmra9w_00295 Amount Added: 64.00 Units: uL

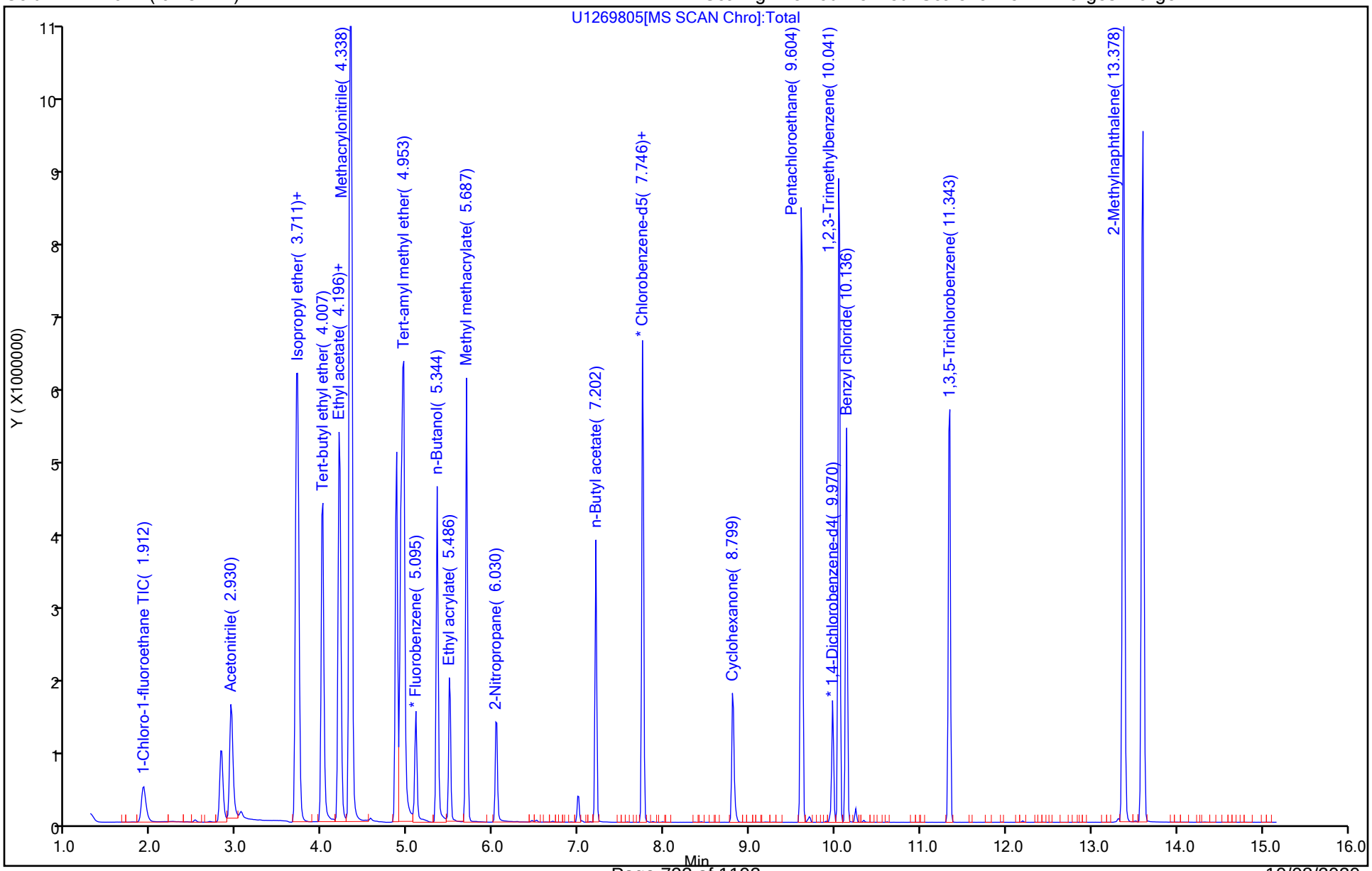
Report Date: 01-May-2019 13:34:27 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269805.D

Injection Date:	30-Apr-2019 17:52:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	stdA9 L7			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269806a.D
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Apr-2019 18:14:30 ALS Bottle#: 13 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-019
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub1

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-May-2019 13:34:30 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0337

First Level Reviewer: laveyt Date: 01-May-2019 13:27:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1213815	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	67	786859	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.971	-0.001	94	452339	20.0	20.0	
13 1-Chloro-1-fluoroethane TI	47	1.912	1.912	0.000	99	840871	60.0	62.3	
26 Acetonitrile	41	2.930	2.942	-0.012	99	2101087	600.0	569.8	
37 Isopropyl ether	87	3.699	3.699	0.000	94	996957	60.0	60.9	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	89	1704173	60.0	61.7	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	97	3195035	60.0	59.6	
43 Ethyl acetate	43	4.196	4.196	0.000	98	2526193	120.0	113.6	
44 Propionitrile	54	4.208	4.208	0.000	99	2665338	600.0	592.3	
45 Methacrylonitrile	41	4.326	4.326	0.000	92	7907632	600.0	527.3	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	99	3262969	60.0	59.3	
58 n-Butanol	56	5.344	5.344	0.000	84	1898282	1500.0	1321.0	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	1406385	60.0	60.4	
63 Methyl methacrylate	41	5.687	5.687	0.000	87	1767987	120.0	114.2	
67 2-Nitropropane	41	6.042	6.030	0.012	99	551865	120.0	118.3	
79 n-Butyl acetate	43	7.201	7.202	-0.001	97	1668759	60.0	60.4	
82 1-Chlorohexane	91	7.746	7.746	0.000	96	1358865	60.0	60.4	
91 Cyclohexanone	55	8.799	8.799	0.000	91	599459	600.0	569.4	
103 Pentachloroethane	167	9.615	9.604	0.011	92	1304124	120.0	130.0	
109 1,2,3-Trimethylbenzene	105	10.041	10.042	-0.001	98	4083704	60.0	61.1	
110 Benzyl chloride	91	10.136	10.136	0.000	98	2953444	60.0	61.2	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	98	1589890	60.0	55.9	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	93	4794940	120.0	85.4	

Reagents:

vm50is_stk_A_00003 Amount Added: 2.00 Units: uL
vmra9w_00295 Amount Added: 48.00 Units: uL

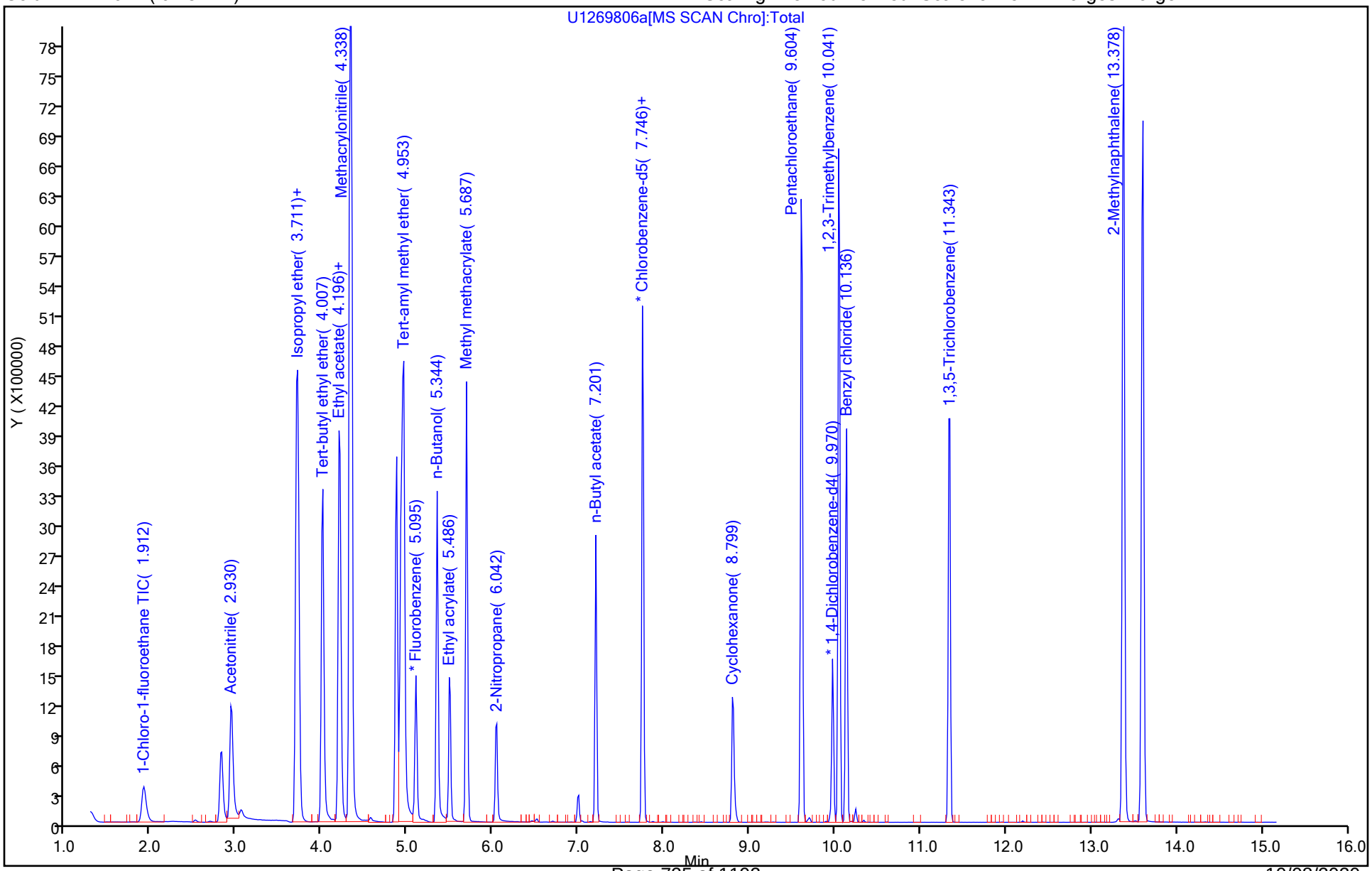
Report Date: 01-May-2019 13:34:31 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269806a.D

Injection Date:	30-Apr-2019 18:14:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	stdA9 L6			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269807.D
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Apr-2019 18:37:30 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-020
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub1

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-May-2019 13:34:34 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0337

First Level Reviewer: laveyt Date: 01-May-2019 13:24:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1204738	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	78	790773	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.971	-0.001	94	437947	20.0	20.0	
13 1-Chloro-1-fluoroethane TI	47	1.912	1.912	0.000	99	564873	40.0	42.2	
26 Acetonitrile	41	2.930	2.942	-0.012	100	1532543	400.0	416.3	
37 Isopropyl ether	87	3.699	3.699	0.000	94	669786	40.0	41.2	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	90	1153399	40.0	42.1	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	97	2160558	40.0	40.6	
43 Ethyl acetate	43	4.196	4.196	0.000	99	1760036	80.0	79.8	
44 Propionitrile	54	4.208	4.208	0.000	99	1837399	400.0	408.8	
45 Methacrylonitrile	41	4.326	4.326	0.000	92	5530137	400.0	371.5	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	98	2215191	40.0	40.6	
58 n-Butanol	56	5.344	5.344	0.000	84	1305583	1000.0	915.4	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	971753	40.0	42.0	
63 Methyl methacrylate	41	5.687	5.687	0.000	88	1265557	80.0	82.4	
67 2-Nitropropane	41	6.030	6.030	0.000	99	377049	80.0	81.4	
79 n-Butyl acetate	43	7.201	7.202	-0.001	97	1173240	40.0	42.2	
82 1-Chlorohexane	91	7.746	7.746	0.000	96	947724	40.0	41.9	
91 Cyclohexanone	55	8.799	8.799	0.000	91	429161	400.0	402.4	
103 Pentachloroethane	167	9.615	9.604	0.011	91	878170	80.0	90.4	
109 1,2,3-Trimethylbenzene	105	10.041	10.042	-0.001	98	2794328	40.0	43.2	
110 Benzyl chloride	91	10.136	10.136	0.000	98	1985115	40.0	42.5	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	98	1098427	40.0	39.9	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	93	3502147	80.0	64.4	

Reagents:

vm50is_stk_A_00003 Amount Added: 2.00 Units: uL
vmra9w_00295 Amount Added: 32.00 Units: uL

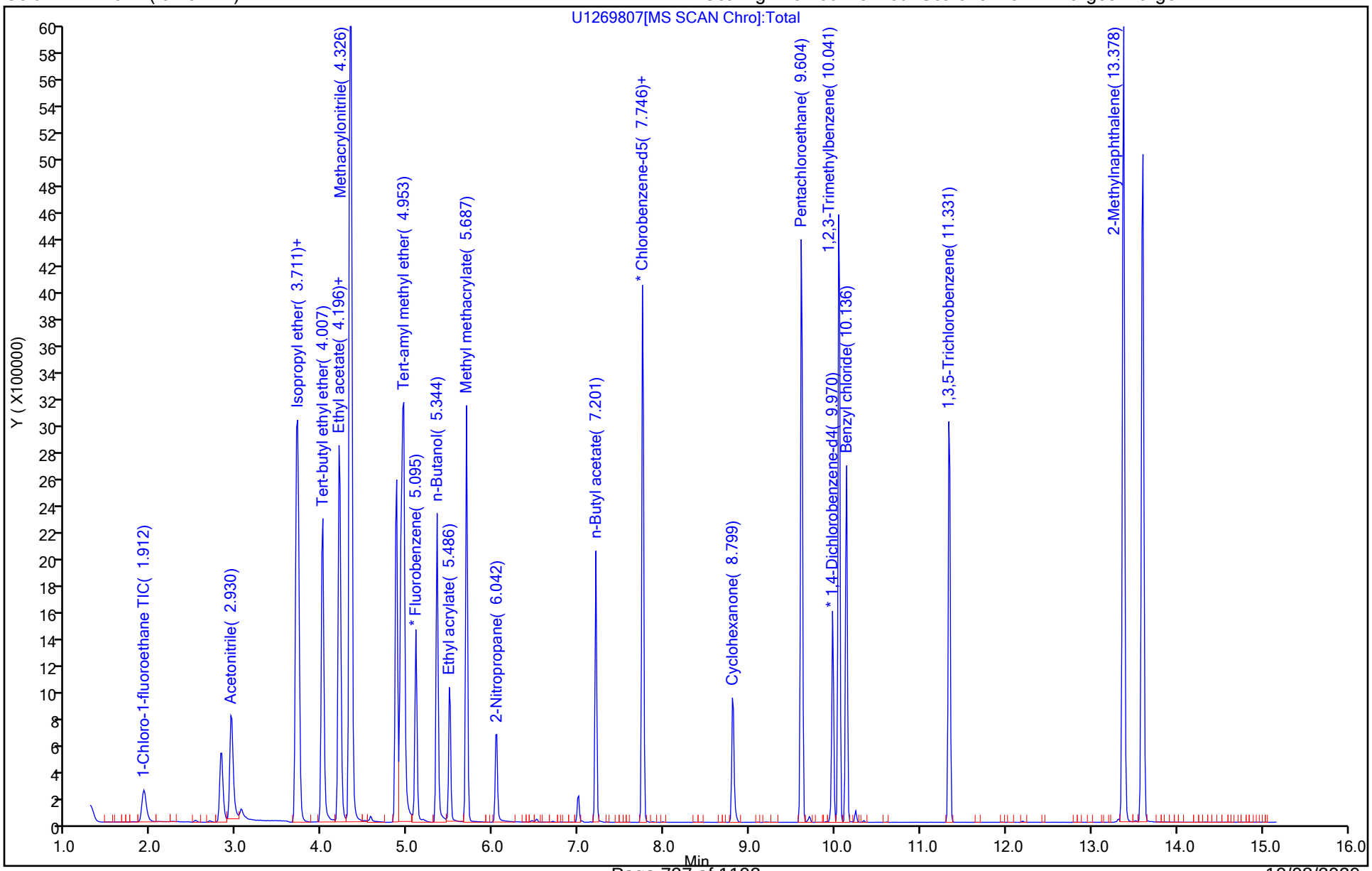
Report Date: 01-May-2019 13:34:36 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269807.D

Injection Date:	30-Apr-2019 18:37:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	stdA9 L5			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269808.D
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Apr-2019 18:59:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-021
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub1

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-May-2019 13:34:39 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0337

First Level Reviewer: laveyt Date: 01-May-2019 13:24:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1259919	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	84	866975	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.971	0.000	94	477773	20.0	20.0	
13 1-Chloro-1-fluoroethane TI	47	1.912	1.912	0.000	99	279594	20.0	20.0	
26 Acetonitrile	41	2.942	2.942	0.000	100	871009	200.0	221.9	
37 Isopropyl ether	87	3.699	3.699	0.000	94	329172	20.0	19.4	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	89	559516	20.0	19.5	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	97	1071213	20.0	19.3	
43 Ethyl acetate	43	4.196	4.196	0.000	99	980925	40.0	42.5	
44 Propionitrile	54	4.208	4.208	0.000	99	1053523	200.0	220.3	
45 Methacrylonitrile	41	4.326	4.326	0.000	92	3119038	200.0	200.4	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	97	1091058	20.0	19.1	
58 n-Butanol	56	5.344	5.344	0.000	84	748361	500.0	501.7	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	551287	20.0	22.8	
63 Methyl methacrylate	41	5.687	5.687	0.000	88	709925	40.0	44.2	
67 2-Nitropropane	41	6.030	6.030	0.000	98	203229	40.0	42.0	
79 n-Butyl acetate	43	7.202	7.202	0.000	97	629474	20.0	20.7	
82 1-Chlorohexane	91	7.746	7.746	0.000	98	492974	20.0	19.9	
91 Cyclohexanone	55	8.799	8.799	0.000	91	283168	200.0	237.8	
103 Pentachloroethane	167	9.604	9.604	0.000	90	425029	40.0	40.1	
109 1,2,3-Trimethylbenzene	105	10.042	10.042	0.000	98	1397402	20.0	19.8	
110 Benzyl chloride	91	10.136	10.136	0.000	98	1010740	20.0	19.8	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	98	577890	20.0	19.2	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	93	2324694	40.0	39.2	

Reagents:

vm50is_stk_A_00003 Amount Added: 2.00 Units: uL
vmra9w_00295 Amount Added: 16.00 Units: uL

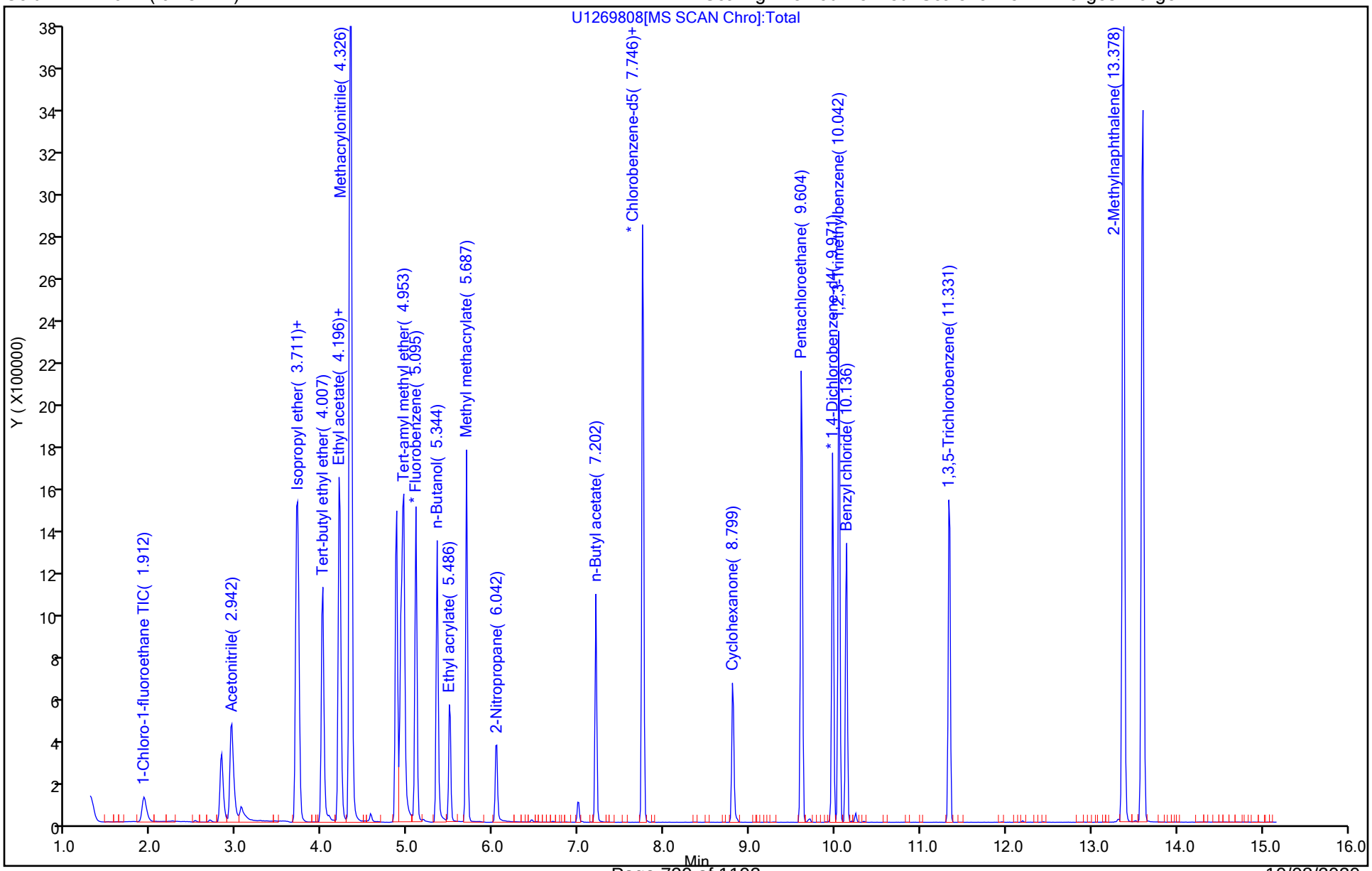
Report Date: 01-May-2019 13:34:41 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269808.D

Injection Date:	30-Apr-2019 18:59:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	stdA9 L4			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269809.D
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Apr-2019 19:21:30 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-022
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub1

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-May-2019 13:34:45 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0337

First Level Reviewer: laveyt Date: 01-May-2019 13:25:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1200078	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	85	774797	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.971	0.000	94	434033	20.0	20.0	
13 1-Chloro-1-fluoroethane TI	47	1.912	1.912	0.000	99	113596	10.0	8.51	
26 Acetonitrile	41	2.942	2.942	0.000	100	409382	100.0	104.8	
37 Isopropyl ether	87	3.699	3.699	0.000	94	141946	10.0	8.77	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	90	229589	10.0	8.41	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	96	479805	10.0	9.06	
43 Ethyl acetate	43	4.196	4.196	0.000	99	412608	20.0	18.8	
44 Propionitrile	54	4.208	4.208	0.000	99	485430	100.0	102.2	
45 Methacrylonitrile	41	4.326	4.326	0.000	92	1404926	100.0	94.8	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	98	504826	10.0	9.28	
58 n-Butanol	56	5.344	5.344	0.000	84	333535	250.0	234.8	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	213092	10.0	9.25	
63 Methyl methacrylate	41	5.687	5.687	0.000	89	285867	20.0	18.7	
67 2-Nitropropane	41	6.030	6.030	0.000	98	80875	20.0	17.5	
79 n-Butyl acetate	43	7.202	7.202	0.000	97	254037	10.0	9.34	
82 1-Chlorohexane	91	7.746	7.746	0.000	94	177328	10.0	8.00	
91 Cyclohexanone	55	8.799	8.799	0.000	91	124978	100.0	111.9	
103 Pentachloroethane	167	9.616	9.604	0.012	89	166979	20.0	17.4	
109 1,2,3-Trimethylbenzene	105	10.042	10.042	0.000	98	551639	10.0	8.61	
110 Benzyl chloride	91	10.136	10.136	0.000	98	414592	10.0	8.96	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	98	225441	10.0	8.26	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	93	974233	20.0	18.1	

Reagents:

vm50is_stk_A_00003 Amount Added: 2.00 Units: uL
vmra9w_00295 Amount Added: 8.00 Units: uL

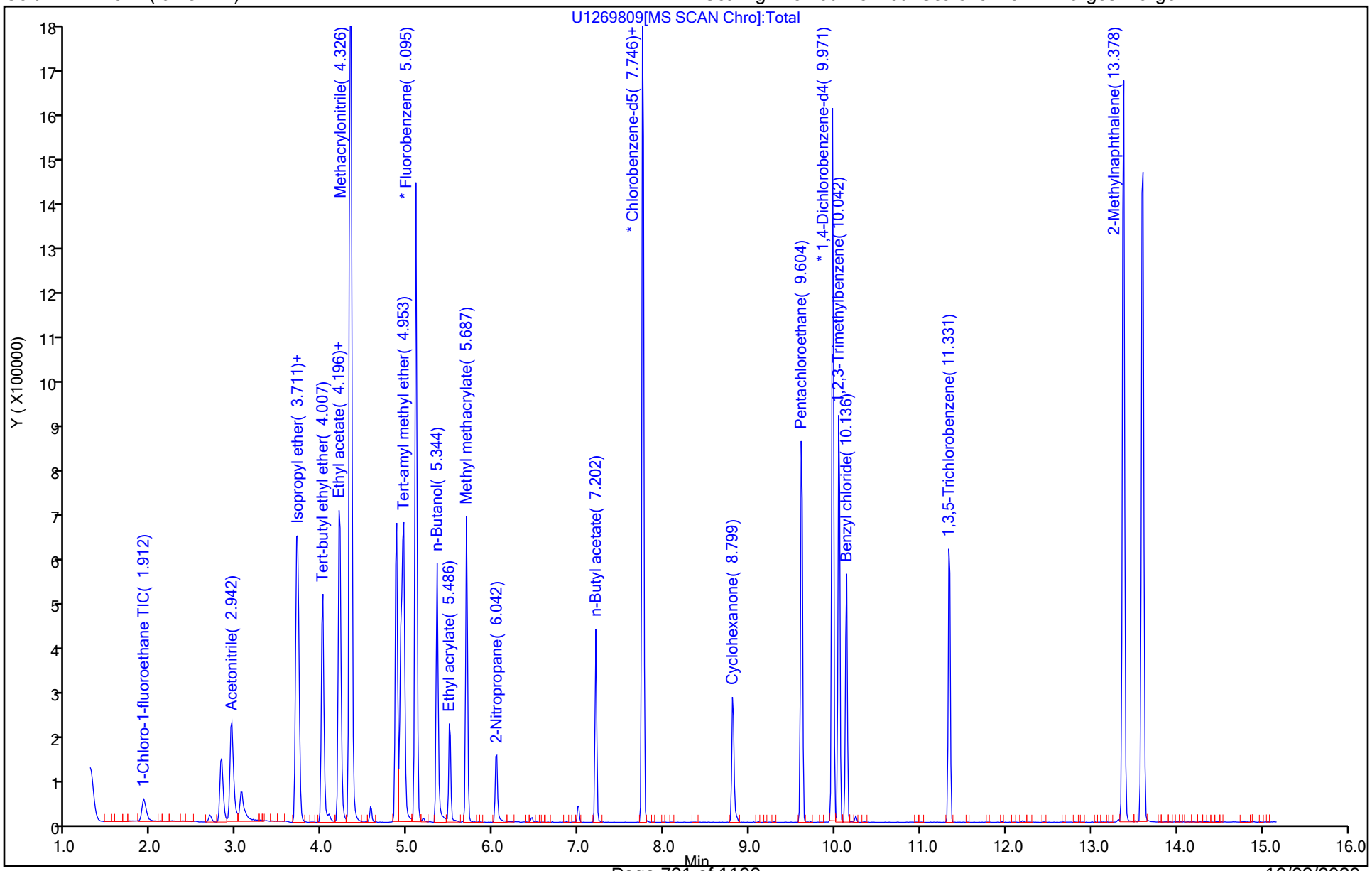
Report Date: 01-May-2019 13:34:47 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269809.D

Injection Date:	30-Apr-2019 19:21:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	stdA9 L3			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269810.D
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Apr-2019 19:43:30 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-023
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub1

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-May-2019 13:34:50 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0337

First Level Reviewer: laveyt Date: 01-May-2019 13:25:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1173891	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	84	759721	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.971	-0.001	94	447620	20.0	20.0	
13 1-Chloro-1-fluoroethane TI	47	1.912	1.912	0.000	96	13857	1.00	1.06	
26 Acetonitrile	41	2.942	2.942	0.000	100	63285	10.0	8.67	
37 Isopropyl ether	87	3.699	3.699	0.000	94	16227	1.00	1.02	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	89	26905	1.00	1.01	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	96	56113	1.00	1.08	
43 Ethyl acetate	43	4.196	4.196	0.000	99	46743	2.00	2.17	
44 Propionitrile	54	4.208	4.208	0.000	99	74659	10.0	8.95	
45 Methacrylonitrile	41	4.326	4.326	0.000	92	186608	10.0	12.9	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	96	58983	1.00	1.11	
58 n-Butanol	56	5.344	5.344	0.000	86	48347	25.0	34.8	
60 Ethyl acrylate	55	5.486	5.486	0.000	98	21871	1.00	0.9710	
63 Methyl methacrylate	41	5.687	5.687	0.000	91	31407	2.00	2.10	
67 2-Nitropropane	41	6.030	6.030	0.000	94	10267	2.00	2.28	
79 n-Butyl acetate	43	7.202	7.202	0.000	97	27432	1.00	1.03	
82 1-Chlorohexane	91	7.746	7.746	0.000	35	21851	1.00	1.01	
91 Cyclohexanone	55	8.799	8.799	0.000	89	18555	10.0	7.61	
103 Pentachloroethane	167	9.604	9.604	0.000	87	17876	2.00	1.80	
109 1,2,3-Trimethylbenzene	105	10.042	10.042	0.000	98	65393	1.00	0.9891	
110 Benzyl chloride	91	10.136	10.136	0.000	98	48324	1.00	1.01	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	98	32979	1.00	1.17	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	94	211087	2.00	3.80	

Reagents:

vm50is_stk_A_00003 Amount Added: 2.00 Units: uL
vmra9w_00295 Amount Added: 0.80 Units: uL

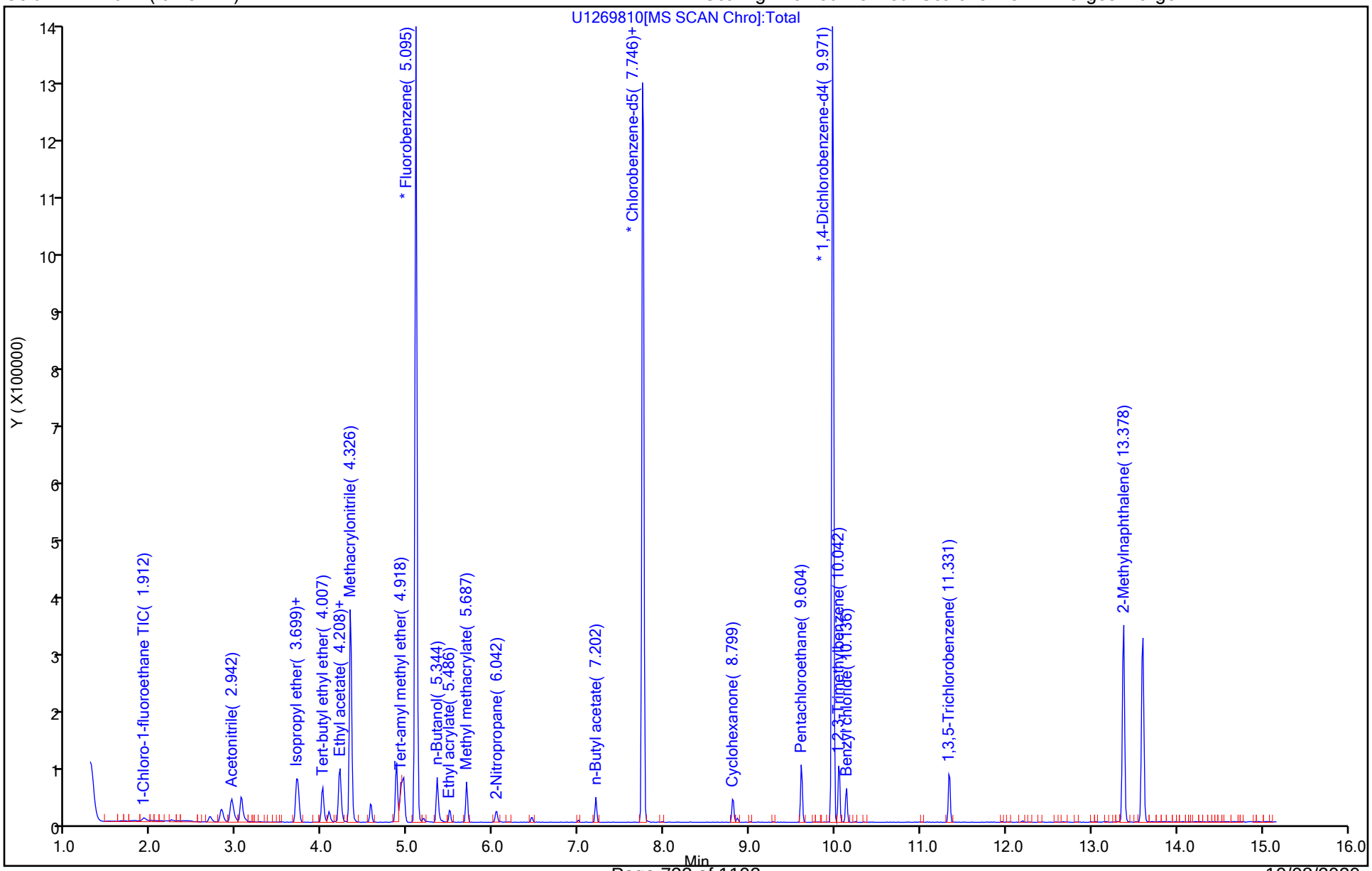
Report Date: 01-May-2019 13:34:51 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269810.D

Injection Date:	30-Apr-2019 19:43:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	stdA9 L2			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Apr-2019 20:05:30 ALS Bottle#: 18 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-024
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub1

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 01-May-2019 13:34:55 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0337

First Level Reviewer: laveyt Date: 01-May-2019 13:26:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1180840	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	85	766902	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.971	0.000	95	438796	20.0	20.0	
13 1-Chloro-1-fluoroethane TI	47	1.912	1.912	0.000	95	6280	0.5000	0.4783	
26 Acetonitrile	41		2.942				ND	ND	U
37 Isopropyl ether	87	3.699	3.699	0.000	94	8647	0.5000	0.5428	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	88	14129	0.5000	0.5262	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	95	27251	0.5000	0.5229	
43 Ethyl acetate	43	4.196	4.196	0.000	99	22198	1.00	1.03	
44 Propionitrile	54		4.208				ND	ND	U
45 Methacrylonitrile	41	4.326	4.326	0.000	91	79733	5.00	5.47	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	97	27432	0.5000	0.5125	
58 n-Butanol	56		5.344				ND	ND	U
60 Ethyl acrylate	55	5.486	5.486	0.000	96	10419	0.5000	0.4598	
63 Methyl methacrylate	41	5.687	5.687	0.000	88	14620	1.00	0.9709	
67 2-Nitropropane	41	6.030	6.030	0.000	91	4184	1.00	0.9221	
79 n-Butyl acetate	43	7.202	7.202	0.000	94	12754	0.5000	0.4736	
82 1-Chlorohexane	91	7.746	7.746	0.000	34	12533	0.5000	0.5713	
91 Cyclohexanone	55		8.799				ND	ND	U
103 Pentachloroethane	167	9.604	9.604	0.000	85	8865	1.00	0.9111	
109 1,2,3-Trimethylbenzene	105	10.042	10.042	0.000	97	33584	0.5000	0.5182	
110 Benzyl chloride	91	10.136	10.136	0.000	97	22933	0.5000	0.4902	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	95	16295	0.5000	0.5902	
119 2-Methylnaphthalene	142		13.378				ND	ND	U

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Review Flags
U - Marked Undetected

Reagents:

vm50is_stk_A_00003	Amount Added:	2.00	Units: uL
vmra9w_00295	Amount Added:	0.40	Units: uL

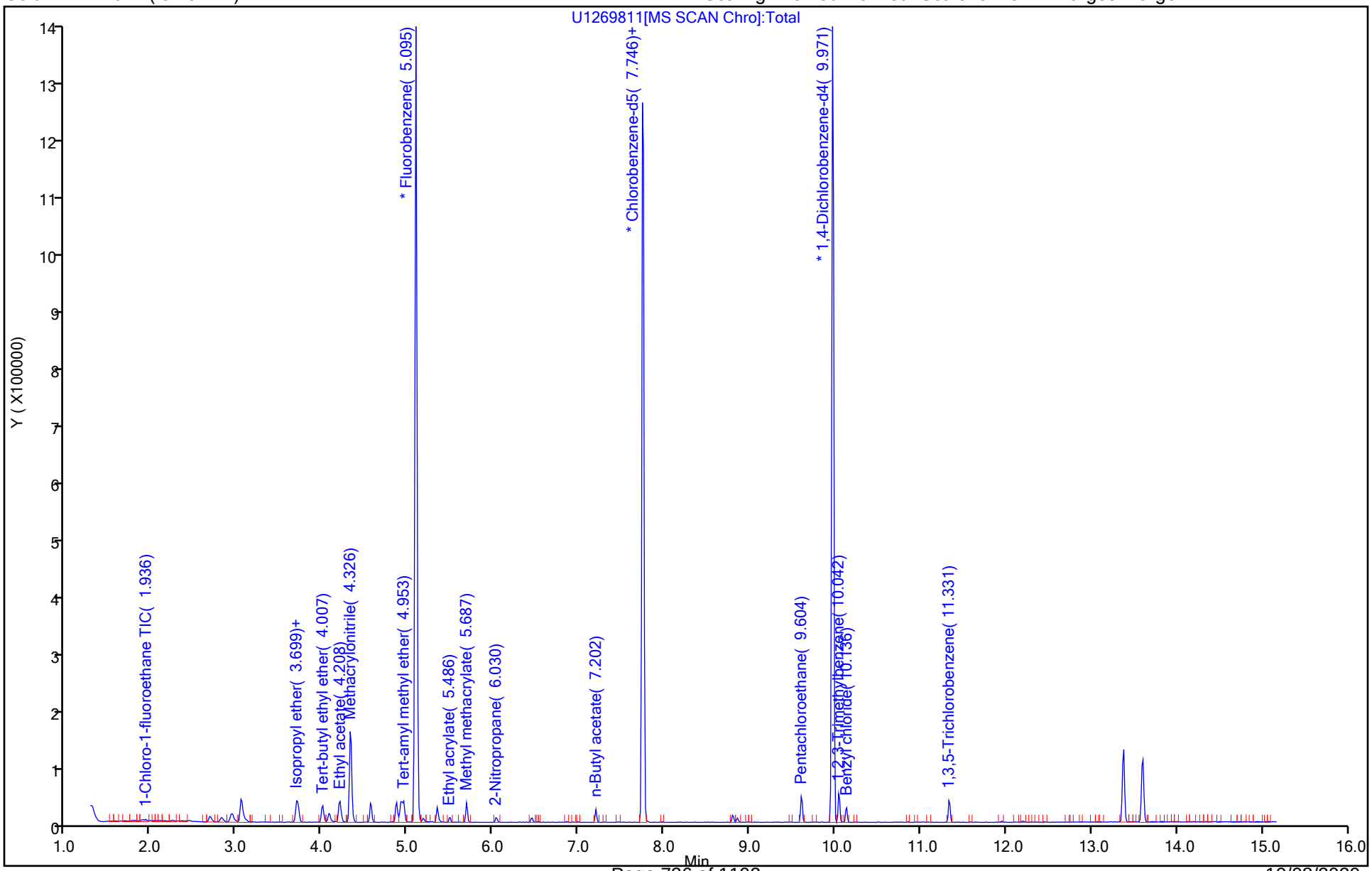
Report Date: 01-May-2019 13:34:56 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Injection Date:	30-Apr-2019 20:05:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	stdA9 L1			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



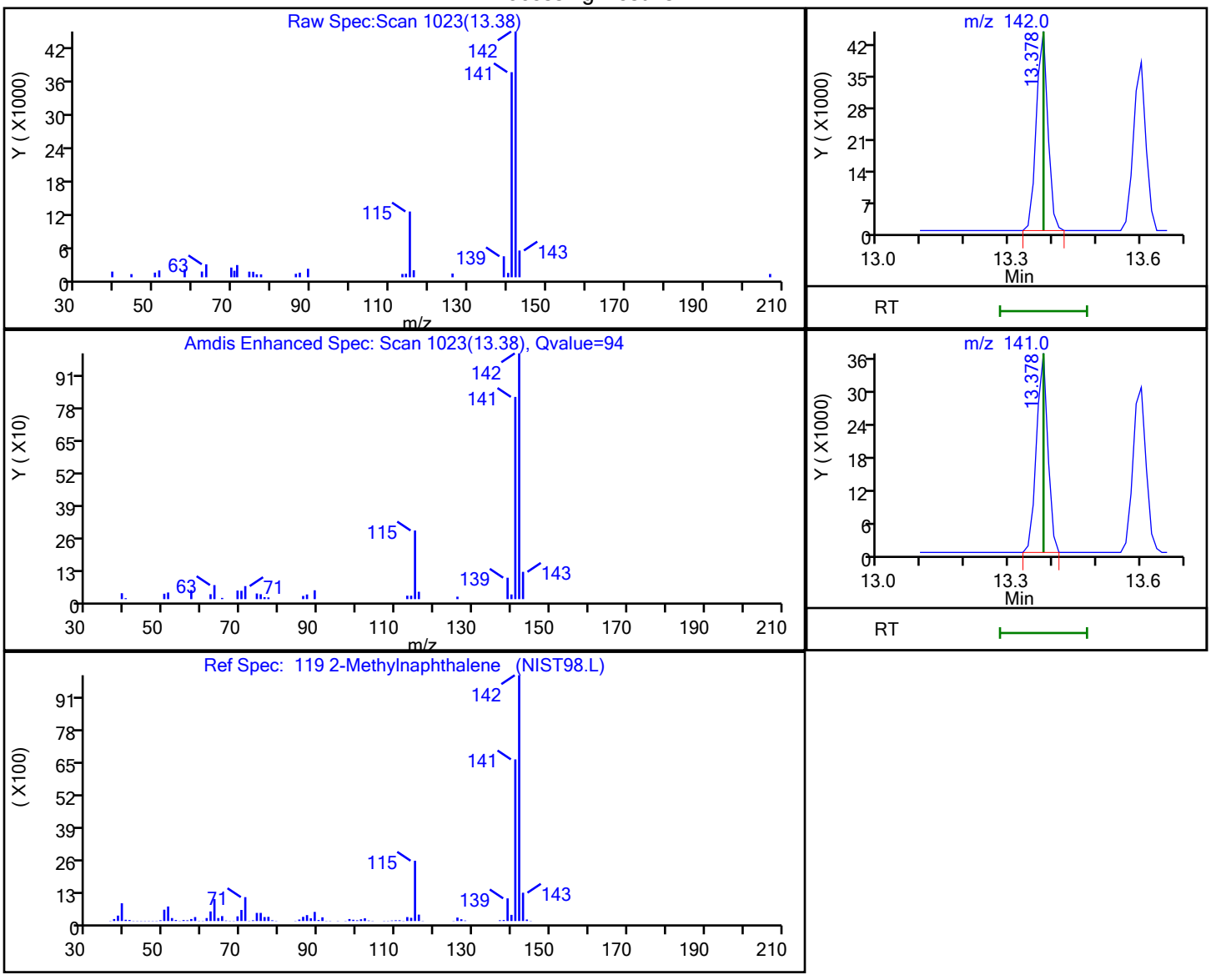
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D				
Injection Date:	30-Apr-2019 20:05:30	Instrument ID:	A3UX12		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	18	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

119 2-Methylnaphthalene, CAS: 91-57-6

Processing Results



RT	Mass	Response	Amount
13.38	142.00	81429	1.395851
13.38	141.00	66741	

Reviewer: laveyt, 01-May-2019 13:31:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

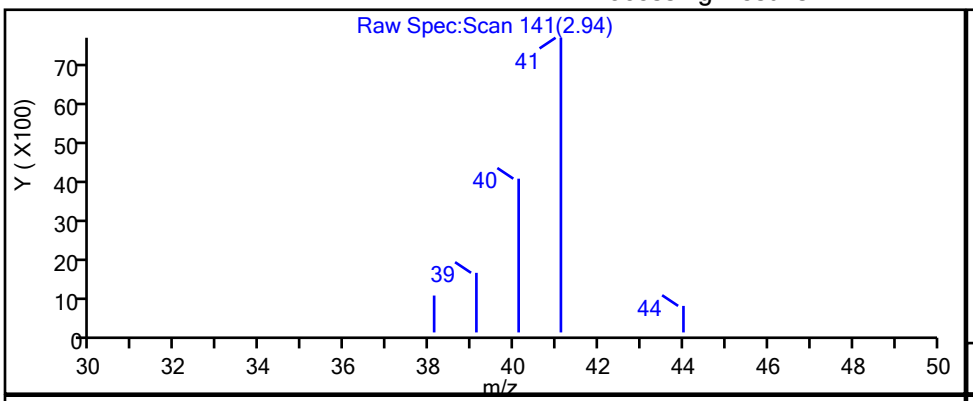
User Disabled Compound Report

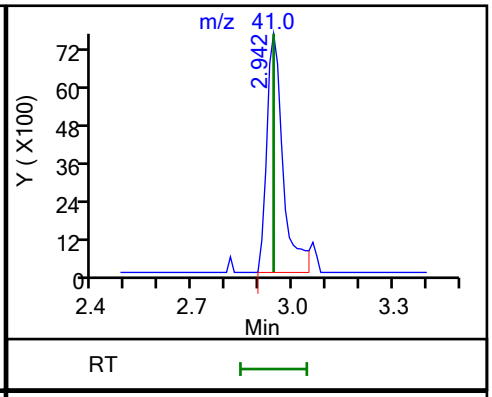
Eurofins TestAmerica, Canton

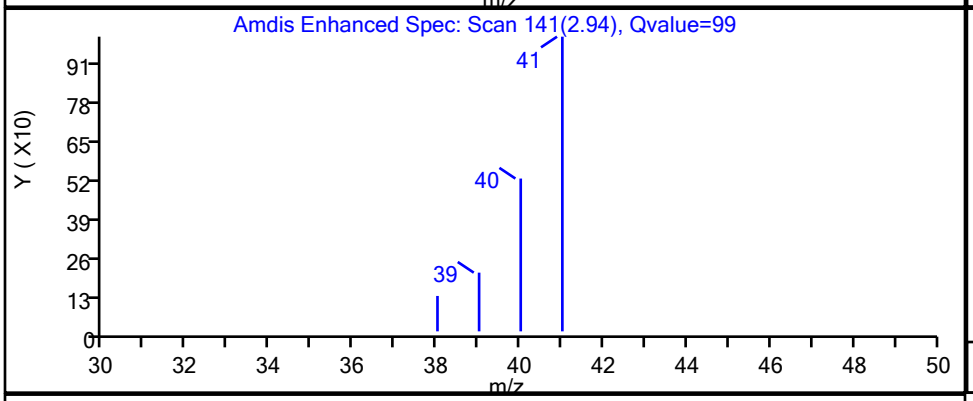
Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D				
Injection Date:	30-Apr-2019 20:05:30	Instrument ID:	A3UX12		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	18	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

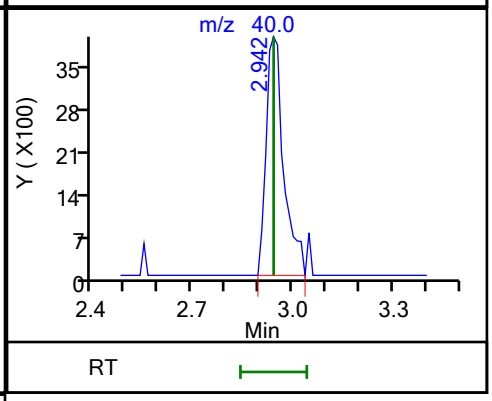
26 Acetonitrile, CAS: 75-05-8

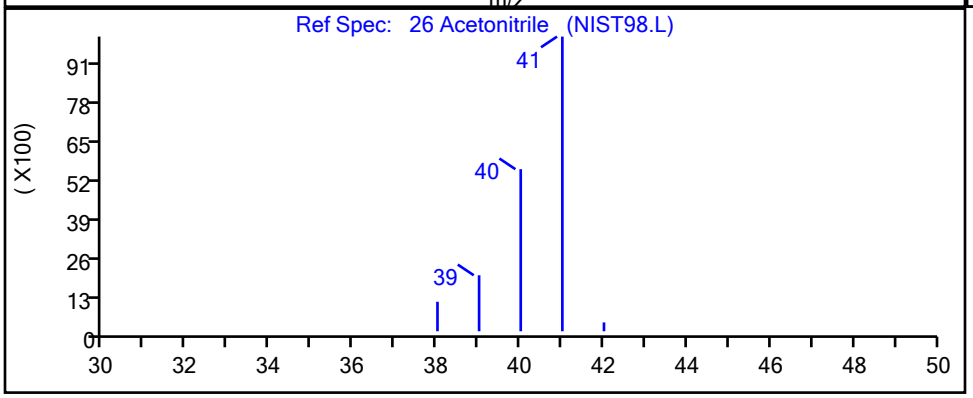
Processing Results











RT	Mass	Response	Amount
2.94	41.00	25845	2.584425
2.94	40.00	14648	

Reviewer: laveyt, 01-May-2019 13:28:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

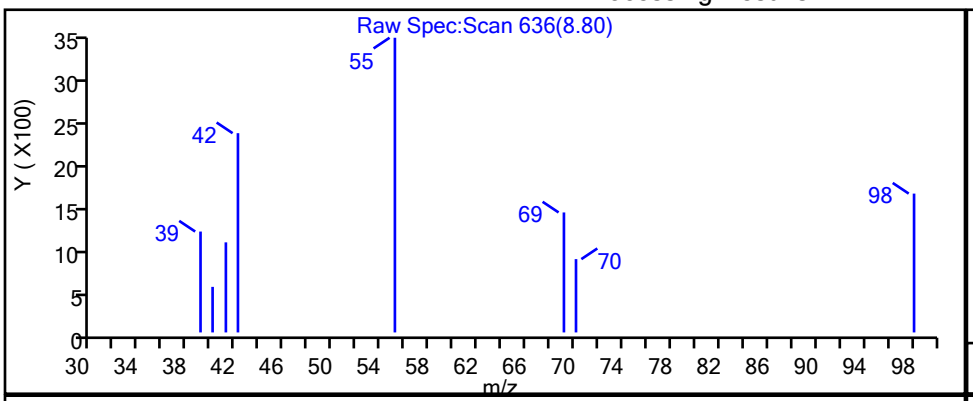
User Disabled Compound Report

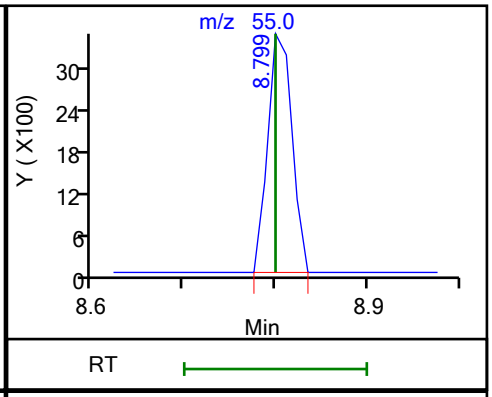
Eurofins TestAmerica, Canton

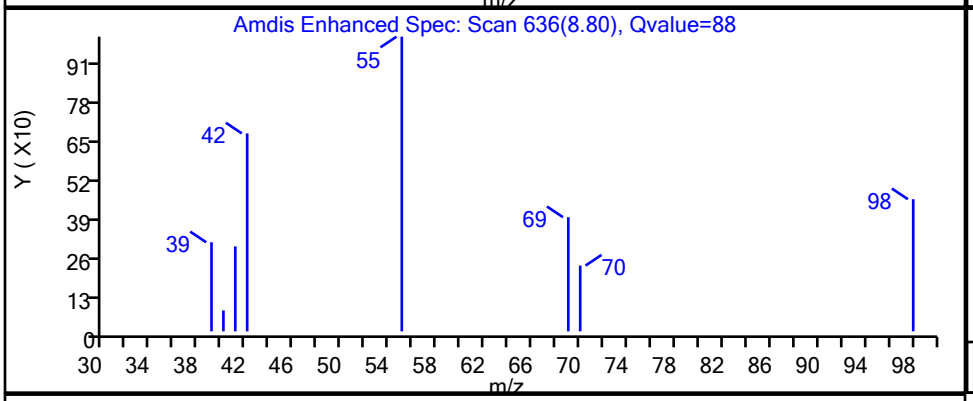
Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D				
Injection Date:	30-Apr-2019 20:05:30	Instrument ID:	A3UX12		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	18	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

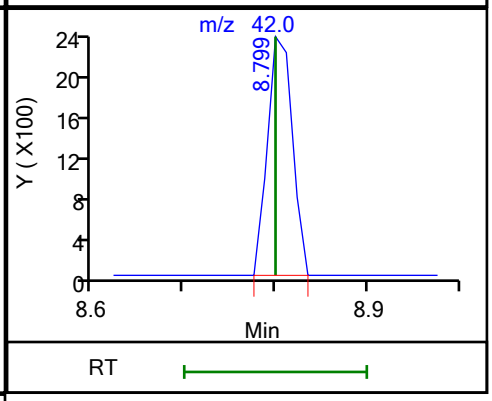
91 Cyclohexanone, CAS: 108-94-1

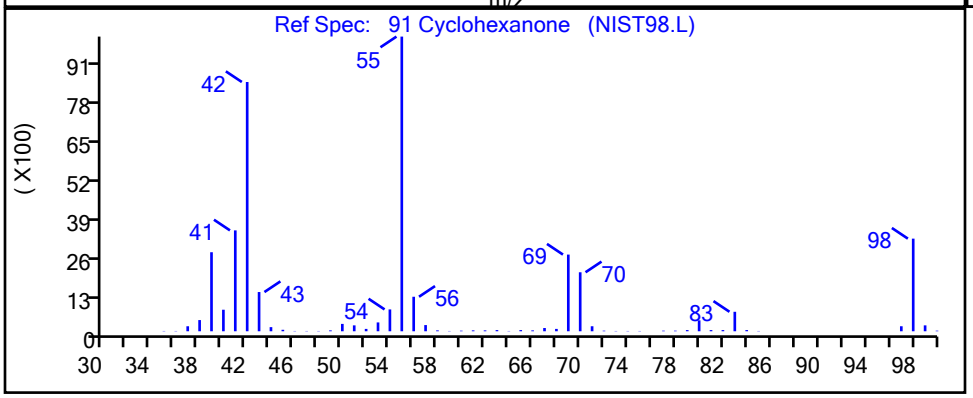
Processing Results











RT	Mass	Response	Amount
8.80	55.00	6285	1.672256
8.80	42.00	4364	

Reviewer: laveyt, 01-May-2019 13:29:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

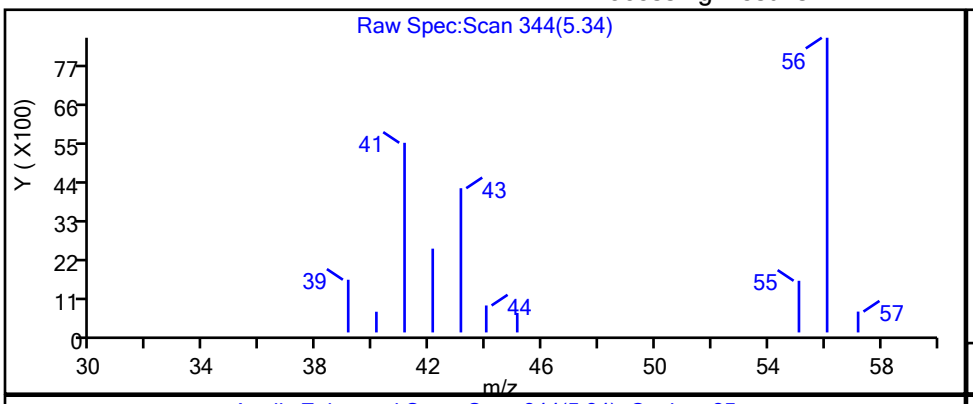
User Disabled Compound Report

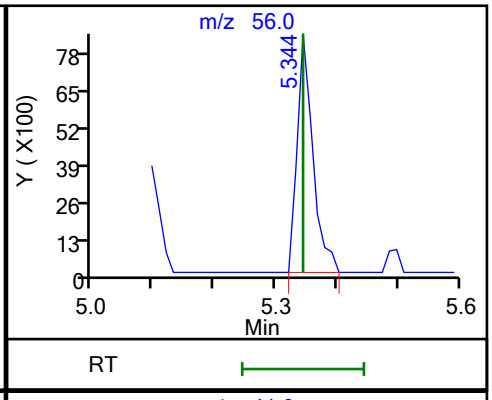
Eurofins TestAmerica, Canton

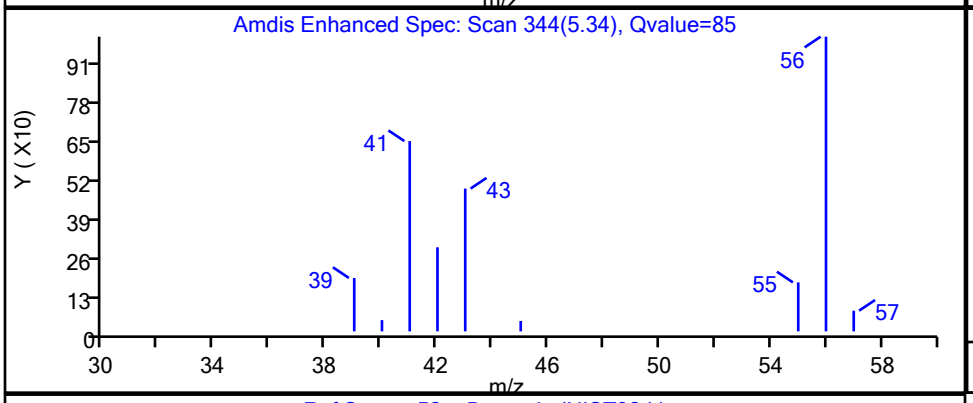
Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D
Injection Date: 30-Apr-2019 20:05:30 Instrument ID: A3UX12
Lims ID: stdA9 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 18 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

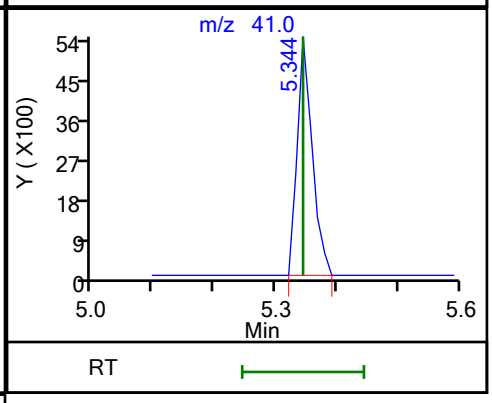
58 n-Butanol, CAS: 71-36-3

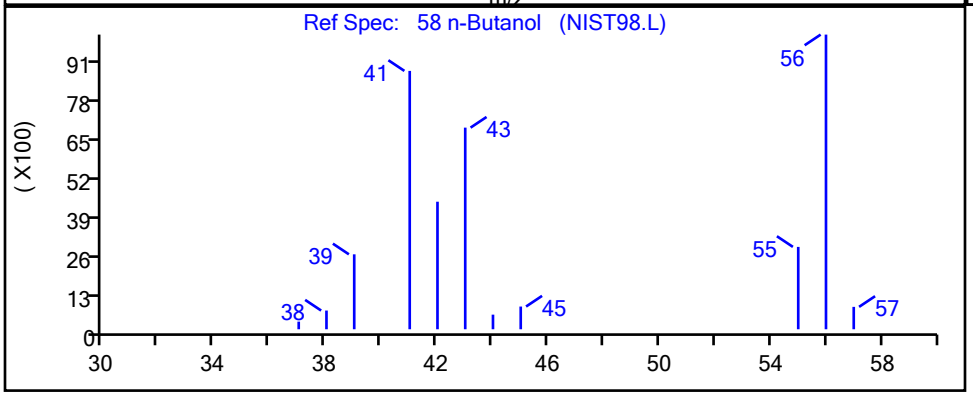
Processing Results











RT	Mass	Response	Amount
5.34	56.00	15149	6.783333
5.34	41.00	9310	

Reviewer: laveyt, 01-May-2019 13:29:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

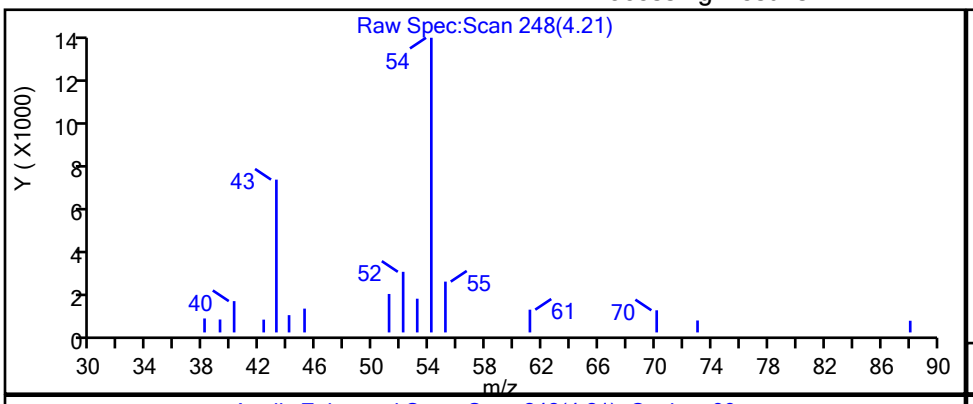
User Disabled Compound Report

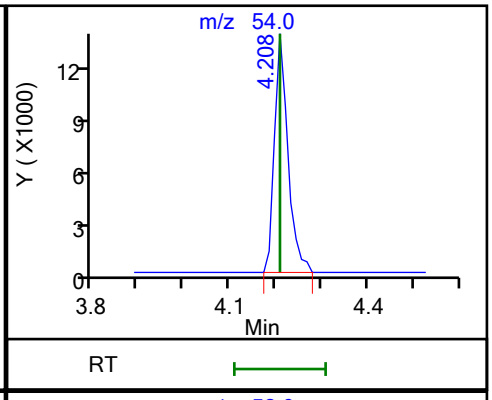
Eurofins TestAmerica, Canton

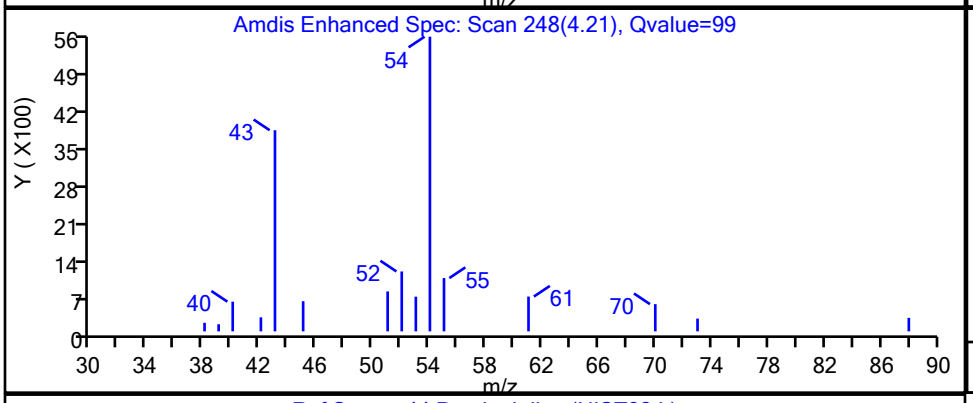
Data File:	\\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D				
Injection Date:	30-Apr-2019 20:05:30	Instrument ID:	A3UX12		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	18	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

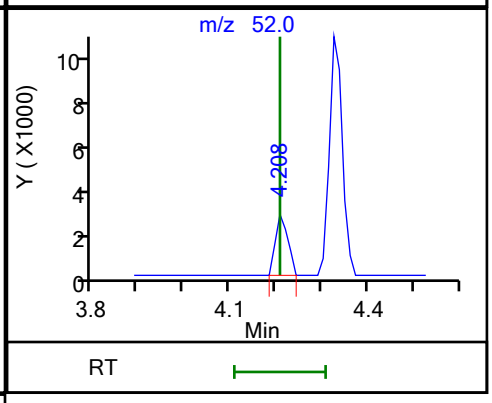
44 Propionitrile, CAS: 107-12-0

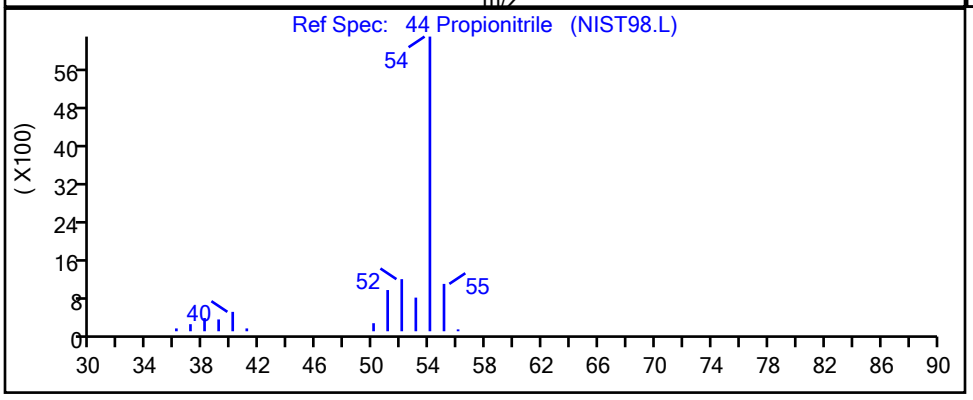
Processing Results











RT	Mass	Response	Amount
4.21	54.00	27066	2.541410
4.21	52.00	5089	

Reviewer: laveyt, 01-May-2019 13:28:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442963/9	U1279113.D
Level 2	STD8260 240-442963/10	U1279114.D
Level 3	STD8260 240-442963/11	U1279115.D
Level 4	STD8260 240-442963/12	U1279116.D
Level 5	ICIS 240-442963/13	U1279117.D
Level 6	STD8260 240-442963/14	U1279118.D
Level 7	STD8260 240-442963/15	U1279119.D
Level 8	STD8260 240-442963/16	U1279120.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2390 0.3129	0.2536 0.3252	0.3597 0.3162	0.3422	0.3504	Ave		0.3124			0.1000	14.1		20.0			
Chloromethane	+++++ 0.4740	0.4519 0.4911	0.6754 0.4935	0.5272	0.6043	Ave		0.5311			0.1000	15.1		20.0			
Butadiene	0.3380 0.3348	0.3323 0.3375	0.4655 0.3574	0.3596	0.4197	Ave		0.3681				13.2		20.0			
Vinyl chloride	0.3197 0.3450	0.3366 0.3583	0.4557 0.3547	0.3872	0.4368	Ave		0.3743			0.1000	13.0		20.0			
Bromomethane	0.2009 0.2274	0.2172 0.2663	0.2724 0.2283	0.2866	0.2859	Ave		0.2481			0.0500	13.5		20.0			
Chloroethane	0.2176 0.2511	0.2297 0.3069	0.3005 0.2594	0.3072	0.3070	Ave		0.2724			0.0500	13.8		20.0			
Dichlorofluoromethane	0.4674 0.5232	0.5247 0.6044	0.5900 0.5160	0.6512	0.6735	Ave		0.5688				12.7		20.0			
Trichlorofluoromethane	0.3890 0.4108	0.4376 0.4705	0.4170 0.4108	0.4760	0.4898	Ave		0.4377			0.1000	8.4		20.0			
Ethyl ether	0.2445 0.3001	0.2923 0.3103	0.3107 0.2846	0.3545	0.3327	Ave		0.3037				10.8		20.0			
Acrolein	0.0233 0.0240	0.0267 0.0272	0.0311 0.0258	0.0257	0.0255	Ave		0.0262				9.1		20.0			
1,1-Dichloroethene	0.3290 0.3749	0.4147 0.4370	0.4520 0.3754	0.4141	0.4198	Ave		0.4021			0.1000	9.9		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1703 0.2344	0.2346 0.2758	0.2511 0.2342	0.2376	0.2515	Ave		0.2362			0.0500	12.8		20.0			
Acetone	+++++ 0.1137	0.1589 0.1130	0.1529 0.0979	0.1343	0.1206	Ave		0.1273			0.0100	17.6		20.0			
Iodomethane	0.3169 0.3908	0.3792 0.4477	0.4301 0.3858	0.4683	0.4537	Ave		0.4091				12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.7494 0.7482	0.7327 0.8730	0.9202 0.7498	0.8549	0.8490	Ave		0.8097			0.1000	8.9		20.0			
3-Chloro-1-propene	0.3972 0.4081	0.4111 0.4745	0.5803 0.4084	0.4638	0.4643	Ave		0.4509				13.4		20.0			
Methyl acetate	0.2712 0.2890	0.2800 0.3141	0.3954 0.2690	0.3231	0.3105	Ave		0.3065			0.1000	13.5		20.0			
Methylene Chloride	0.3304 0.3332	0.3430 0.3813	0.4456 0.3268	0.3981	0.3811	Ave		0.3674			0.1000	11.4		20.0			
tert-Butyl alcohol	+++++ 0.0382	0.0346 0.0353	0.0469 0.0302	0.0431	0.0376	Ave		0.0380				14.7		20.0			
Acrylonitrile	0.1414 0.1448	0.1331 0.1843	0.1893 +++++	0.1631	0.1559	Ave		0.1589				13.5		20.0			
trans-1,2-Dichloroethene	0.3330 0.3645	0.3284 +++++	0.4594 +++++	0.4201	0.4101	Ave		0.3859			0.1000	13.6		20.0			
Methyl tert-butyl ether	0.7426 0.8255	0.7777 1.0920	0.9611 0.8329	0.9443	0.9124	Ave		0.8861			0.1000	12.9		20.0			
Hexane	+++++ 0.3965	0.3424 0.5392	0.4821 0.4558	0.3818	0.3948	Ave		0.4275				15.9		20.0			
1,1-Dichloroethane	0.3935 0.4613	0.4643 0.6142	0.5845 0.5312	0.5344	0.5314	Ave		0.5143			0.2000	13.9		20.0			
Vinyl acetate	+++++ 0.6655	0.5617 0.8869	0.7971 0.8155	0.6834	0.6620	Ave		0.7246				15.5		20.0			
2,2-Dichloropropane	0.3080 0.3323	0.3239 0.3895	0.3371 +++++	0.3874	0.3904	Ave		0.3526				10.0		20.0			
cis-1,2-Dichloroethene	0.3372 0.3363	0.3440 0.3862	0.3406 +++++	0.3894	0.3856	Ave		0.3599			0.1000	7.1		20.0			
2-Butanone	0.0606 0.0641	0.0495 0.0720	0.0609 +++++	0.0687	0.0660	Ave		0.0631			0.0100	11.5		20.0			
Bromochloromethane	0.2767 0.2940	0.2765 0.2741	0.3072 0.2262	0.3458	0.3405	Ave		0.2926				13.3		20.0			
Tetrahydrofuran	0.1824 0.1651	0.1442 0.1424	0.1797 0.1198	0.1690	0.1865	Ave		0.1611				14.6		20.0			
Chloroform	0.4849 0.5027	0.4932 0.4996	0.5081 0.4275	0.5601	0.5977	Ave		0.5092			0.2000	10.0		20.0			
1,1,1-Trichloroethane	0.3875 0.4270	0.3654 0.4205	0.3958 0.3615	0.3990	0.4730	Ave		0.4037			0.1000	9.0		20.0			
Cyclohexane	0.4846 0.5068	0.4997 0.4888	0.4787 0.4071	0.4338	0.5234	Ave		0.4779			0.1000	8.1		20.0			
1,1-Dichloropropene	0.4001 0.4499	0.3812 0.4152	0.4161 0.3569	0.3796	0.4876	Ave		0.4108				10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.2846 0.3536	0.3119 0.3516	0.3143 0.3065	0.3201	0.3879	Ave		0.3288			0.1000	10.1		20.0			
Isobutyl alcohol	0.0172 0.0179	0.0155 0.0146	0.0187 0.0123	0.0155	0.0174	Ave		0.0161				12.9		20.0			
Benzene	1.2306 1.2707	1.2406 1.1849	1.2643 1.0246	1.1853	1.4211	Ave		1.2278			0.5000	9.0		20.0			
1,2-Dichloroethane	0.4123 0.4133	0.3884 0.3951	0.3965 0.3400	0.3960	0.4497	Ave		0.3989			0.1000	7.7		20.0			
n-Heptane	+++++ 0.2125	0.8760 0.1889	0.3267 0.2082	0.2164	0.1882	Lin1	0.6463	0.1871				16.0			0.9910		0.9900
Trichloroethene	0.2499 0.2624	0.2675 0.2982	0.2855 0.2836	0.2842	0.2896	Ave		0.2776			0.1500	5.8		20.0			
Methylcyclohexane	0.4902 0.4469	0.5070 0.5110	0.5094 0.5191	0.4459	0.4587	Ave		0.4860			0.1000	6.3		20.0			
1,2-Dichloropropane	0.2744 0.2396	0.2459 0.2704	0.2867 0.2874	0.2595	0.2573	Ave		0.2651			0.1000	6.7		20.0			
Dibromomethane	0.1895 0.1728	0.1568 0.2250	0.1821 0.1794	0.2106	0.1896	Ave		0.1882				11.4		20.0			
1,4-Dioxane	+++++ 0.0031	+++++ 0.0038	0.0030 0.0033	0.0043	0.0032	Ave		0.0035				14.7		20.0			
Bromodichloromethane	0.3228 0.3084	0.2546 0.3976	0.3199 0.3440	0.3789	0.3236	Ave		0.3312			0.1500	13.3		20.0			
2-Chloroethyl vinyl ether	0.1829 0.1783	0.1421 0.2594	0.2002 0.2185	0.2316	0.1844	Ave		0.1997				18.2		20.0			
cis-1,3-Dichloropropene	0.3945 0.3870	0.3031 0.5372	0.4096 0.4609	0.4701	0.3950	Ave		0.4197			0.1500	16.6		20.0			
4-Methyl-2-pentanone	0.4354 0.3706	0.3274 0.4917	0.4703 0.4482	0.5361	0.3932	Ave		0.4341			0.0500	15.7		20.0			
Toluene	1.8532 1.3460	1.5321 1.8337	1.6256 1.8105	1.9267	1.3466	Ave		1.6593			0.4000	14.0		20.0			
trans-1,3-Dichloropropene	0.5866 0.4654	0.4692 0.6407	0.5203 0.6635	0.5106	0.4452	Ave		0.5377			0.1000	15.5		20.0			
Ethyl methacrylate	0.5372 0.4804	0.4744 0.6569	0.5628 0.6526	0.5119	0.4617	Ave		0.5422				14.2		20.0			
1,1,2-Trichloroethane	0.3488 0.2740	0.2971 0.3762	0.3194 0.3628	0.3084	0.3128	Ave		0.3249			0.1000	10.7		20.0			
Tetrachloroethene	0.4672 0.3443	0.3797 0.4470	0.3653 0.4319	0.3757	0.3653	Ave		0.3971			0.1500	11.3		20.0			
1,3-Dichloropropane	0.6006 0.5055	0.6082 0.6659	0.6094 0.7069	0.5690	0.6114	Ave		0.6096				9.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	+++++ 0.3462	0.3677 0.5188	0.4753 0.4590	0.4043	0.4737	Ave		0.4350			0.0500	14.6		20.0			
Dibromochloromethane	0.2607 0.3295	0.3070 0.3727	0.2990 0.3686	0.3108	0.3066	Ave		0.3194				11.6		20.0			
1,2-Dibromoethane	0.2959 0.3490	0.3468 0.3446	0.3234 0.3756	0.3251	0.3269	Ave		0.3359				7.0		20.0			
Chlorobenzene	0.9601 0.9982	0.9577 0.9856	0.9970 0.9625	0.9439	0.9561	Ave		0.9701			0.3000	2.1		20.0			
1,1,1,2-Tetrachloroethane	0.2861 0.3451	0.3082 0.3607	0.3246 0.3482	0.3416	0.3313	Ave		0.3307				7.3		20.0			
Ethylbenzene	0.4726 0.5416	0.5415 0.5535	0.5513 0.5455	0.5158	0.5401	Ave		0.5327				5.0		20.0			
m-Xylene & p-Xylene	0.5474 0.7020	0.6317 0.6953	0.6913 0.6808	0.6540	0.6759	Ave		0.6598				7.7		20.0			
o-Xylene	0.6144 0.6625	0.7873 0.6809	0.6754 0.6788	0.6652	0.6714	Ave		0.6795				7.1		20.0			
Styrene	0.8975 1.1025	1.2328 1.1300	1.0808 1.1354	1.0526	1.0955	Ave		1.0909			0.3000	8.7		20.0			
Bromoform	0.1816 0.2215	0.2061 0.2498	0.2056 0.2524	0.2241	0.2201	Ave		0.2201			0.1000	10.6		20.0			
Isopropylbenzene	1.6277 1.6644	1.8462 1.7216	1.7216 1.6924	1.6505	1.6999	Ave		1.7030			0.1000	3.9		20.0			
1,1,2,2-Tetrachloroethane	0.9256 1.0911	1.0665 0.8972	1.0273 1.1690	0.8375	0.9849	Ave		0.9999			0.3000	11.0		20.0			
Bromobenzene	0.7288 0.8081	0.8447 0.7401	0.7929 0.9282	0.6798	0.7304	Ave		0.7816				10.1		20.0			
1,2,3-Trichloropropane	0.3410 0.3591	0.3863 0.3119	0.3528 0.3774	0.2961	0.3349	Ave		0.3449				8.9		20.0			
trans-1,4-Dichloro-2-butene	0.2625 0.3469	0.2454 0.2884	0.3133 0.3529	0.2288	0.3033	Ave		0.2927				15.5		20.0			
n-Propylbenzene	0.7726 0.9340	0.8088 0.8290	0.8978 1.0055	0.7202	0.8369	Ave		0.8506				10.8		20.0			
2-Chlorotoluene	0.7922 0.7897	0.7423 0.6969	0.7641 0.8746	0.6279	0.7208	Ave		0.7510				9.8		20.0			
1,3,5-Trimethylbenzene	2.0962 2.7331	2.3810 2.3653	2.6027 2.9725	2.4185	2.4938	Ave		2.5079				10.5		20.0			
4-Chlorotoluene	0.7751 0.7961	0.7602 0.7135	0.7756 0.8974	0.7258	0.7198	Ave		0.7704				7.7		20.0			
tert-Butylbenzene	2.0911 2.3706	2.1569 2.0531	2.1523 2.5782	2.0837	2.0767	Ave		2.1953				8.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.6633 2.7829	2.4414 2.3659	2.6580 3.0077	2.6472	2.5064	Ave		2.6341				7.7		20.0			
sec-Butylbenzene	3.2857 3.3989	3.1011 3.2856	3.1609 3.2757	2.9618	3.0028	Ave		3.1841				4.8		20.0			
1,3-Dichlorobenzene	1.5139 1.5056	1.5517 1.4537	1.4912 1.4993	1.4677	1.3852	Ave		1.4835			0.6000	3.3		20.0			
p-Isopropyltoluene	2.3317 2.8989	2.5270 2.8114	2.7243 2.8068	2.5023	2.5803	Ave		2.6478				7.3		20.0			
1,4-Dichlorobenzene	1.7142 1.5352	1.6156 1.5115	1.5056 1.5195	1.4720	1.4203	Ave		1.5367			0.5000	5.9		20.0			
n-Butylbenzene	1.8951 2.4602	2.1133 2.4171	2.2733 2.3109	2.0729	2.2184	Ave		2.2202				8.4		20.0			
1,2-Dichlorobenzene	1.5372 1.4905	1.4933 1.4585	1.4947 1.4453	1.4331	1.4279	Ave		1.4726			0.4000	2.6		20.0			
1,2-Dibromo-3-Chloropropane	0.2010 0.2669	0.2345 0.2367	0.2385 0.2646	0.2131	0.2135	Ave		0.2336			0.0500	10.2		20.0			
1,2,4-Trichlorobenzene	0.9887 0.8713	0.8099 0.7417	0.8058 0.8636	0.7082	0.6997	Ave		0.8111			0.2000	12.0		20.0			
Hexachlorobutadiene	0.4276 0.3159	0.3357 0.2828	0.2887 0.3236	0.2492	0.2598	Ave		0.3104				18.1		20.0			
Naphthalene	2.7351 3.0748	2.6527 2.5138	2.8063 2.9241	2.3872	2.3949	Ave		2.6861				9.2		20.0			
1,2,3-Trichlorobenzene	0.8366 0.8012	0.7261 0.6950	0.7707 0.8318	0.6662	0.6501	Ave		0.7472				9.8		20.0			
Dibromofluoromethane (Surr)	+++++ 0.2687	+++++ 0.2632	0.2565 0.2279	0.2654	0.3110	Ave		0.2655				10.1		20.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3299	+++++ 0.3169	0.3337 0.2741	0.3228	0.3720	Ave		0.3249				9.7		20.0			
Toluene-d8 (Surr)	+++++ 1.1036	+++++ 1.5400	1.3670 1.5066	1.4506	1.1486	Ave		1.3527				13.7		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.4348	+++++ 0.4579	0.4861 0.5021	0.4378	0.4603	Ave		0.4632				5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442963/9	U1279113.D
Level 2	STD8260 240-442963/10	U1279114.D
Level 3	STD8260 240-442963/11	U1279115.D
Level 4	STD8260 240-442963/12	U1279116.D
Level 5	ICIS 240-442963/13	U1279117.D
Level 6	STD8260 240-442963/14	U1279118.D
Level 7	STD8260 240-442963/15	U1279119.D
Level 8	STD8260 240-442963/16	U1279120.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6491 692065	12858 952192	95890 1447911	151666	325891	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Chloromethane	FB	Ave	+++++ 1048531	22907 1437896	180045 2259568	233672	562073	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Butadiene	FB	Ave	9181 740602	16845 988134	124092 1636623	159384	390394	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Vinyl chloride	FB	Ave	8683 763156	17064 1049031	121481 1624267	171618	406302	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromomethane	FB	Ave	5457 502951	11010 779653	72628 1045526	127041	265909	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Chloroethane	FB	Ave	5911 555402	11645 898507	80121 1187806	136173	285493	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Dichlorofluoromethane	FB	Ave	12695 1157160	26597 1769403	157289 2362624	288627	626381	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Trichlorofluoromethane	FB	Ave	10566 908548	22183 1377516	111171 1880748	210999	455578	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethyl ether	FB	Ave	6641 663810	14820 908584	82827 1303305	157156	309400	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Acrolein	FB	Ave	3163 265086	6778 397800	41496 590629	56998	118799	2.50 200	5.00 300	25.0 400	50.0	100
1,1-Dichloroethene	FB	Ave	8937 829316	21022 1279374	120487 1718675	183544	390469	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	4626 518516	11895 807578	66947 1072209	105296	233909	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Acetone	FB	Ave	+++++ 503096	16108 661546	81521 896587	119029	224375	+++++ 80.0	2.00 120	10.0 160	20.0	40.0
Iodomethane	FB	Ave	8607 864362	19223 1310816	114665 1766617	207558	421954	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Carbon disulfide	FB	Ave	20354 1654881	37146 2555816	245305 3433316	378954	789675	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
3-Chloro-1-propene	FB	Ave	10788 902635	20839 1389182	154691 1869760	205590	431804	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Methyl acetate	FB	Ave	14733 1278569	28394 1839288	210795 2463274	286458	577598	1.00 80.0	2.00 120	10.0 160	20.0	40.0
Methylene Chloride	FB	Ave	8975 737052	17390 1116320	118801 1496408	176439	354472	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
tert-Butyl alcohol	FB	Ave	+++++ 844343	17528 1032059	125121 1383065	191199	349742	+++++ 400	10.0 600	50.0 800	100	200
Acrylonitrile	FB	Ave	38417 3202437	67455 5396310	504697 +++++	723158	1450393	5.00 400	10.0 600	50.0 +++++	100	200
trans-1,2-Dichloroethene	FB	Ave	9045 806228	16647 +++++	122478 +++++	186220	381398	0.500 40.0	1.00 +++++	5.00 +++++	10.0	20.0
Methyl tert-butyl ether	FB	Ave	20171 1825802	39426 3196991	256224 3813820	418565	848635	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Hexane	FB	Ave	+++++ 877095	17358 1578677	128512 2087141	169215	367216	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1-Dichloroethane	FB	Ave	10688 1020403	23537 1798158	155829 2432150	236866	494235	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 1471981	28476 2596721	212513 3734074	302914	615701	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2,2-Dichloropropane	FB	Ave	8366 734903	16418 1140347	89862 +++++	171711	363126	0.500 40.0	1.00 60.0	5.00 +++++	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	9160 743747	17440 1130637	90791 +++++	172589	358669	0.500 40.0	1.00 60.0	5.00 +++++	10.0	20.0
2-Butanone	FB	Ave	3292 283584	5020 421345	32487 +++++	60927	122791	1.00 80.0	2.00 120	10.0 +++++	20.0	40.0
Bromochloromethane	FB	Ave	7517 650336	14016 802370	81886 1035588	153287	316652	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Tetrahydrofuran	FB	Ave	9909 730197	14616 833693	95835 1096878	149777	347004	1.00 80.0	2.00 120	10.0 160	20.0	40.0
Chloroform	FB	Ave	13172 1111892	25004 1462582	135443 1957485	248247	555952	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	10524 944576	18522 1231118	105527 1655131	176862	439960	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Cyclohexane	FB	Ave	13162 1121049	25331 1431075	127620 1863865	192287	486792	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1-Dichloropropene	FB	Ave	10867 995105	19325 1215722	110916 1634304	168265	453544	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Carbon tetrachloride	FB	Ave	7731 782108	15810 1029542	83787 1403246	141890	360797	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Isobutyl alcohol	FB	Ave	11663 989777	19594 1065136	124596 1406970	172245	405480	12.5 1000	25.0 1500	125 2000	250	500

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	33425 2810699	62890 3469151	337044 4691183	525396	1321740	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichloroethane	FB	Ave	11198 914197	19689 1156634	105694 1556959	175519	418240	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
n-Heptane	FB	Lin1	+++++ 470133	44411 552977	87098 953448	95900	175083	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Trichloroethene	FB	Ave	6788 580360	13562 873131	76118 1298374	125955	269336	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Methylcyclohexane	FB	Ave	13314 988563	25703 1496196	135793 2376794	197666	426646	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichloropropane	FB	Ave	7452 529883	12467 791730	76423 1315984	115005	239320	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Dibromomethane	FB	Ave	5148 382258	7950 658845	48536 821478	93337	176342	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,4-Dioxane	FB	Ave	+++++ 136471	+++++ 224221	15971 304656	38163	59715	+++++ 800	+++++ 1200	100 1600	200	400
Bromodichloromethane	FB	Ave	8768 682191	12908 1164000	85277 1575297	167964	300932	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	9938 788544	14412 1519041	106727 2001081	205324	343008	1.00 80.0	2.00 120	10.0 160	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	10714 856087	15367 1572803	109191 2110296	208362	367344	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
4-Methyl-2-pentanone	FB	Ave	23654 1639242	33198 2878867	250773 4104472	475232	731356	1.00 80.0	2.00 120	10.0 160	20.0	40.0
Toluene	CBNZ d5	Ave	29652 2206110	46282 3857470	302953 5188385	609655	1007024	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	9385 762783	14175 1347764	96966 1901312	161548	332918	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	8596 787358	14331 1381887	104880 1870176	161989	345274	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	5581 449059	8974 791429	59524 1039659	97580	233957	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	7475 564371	11469 940315	68082 1237632	118877	273224	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	9610 828517	18373 1400884	113574 2025809	180029	457272	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Hexanone	CBNZ d5	Ave	+++++ 1134947	22216 2182766	177166 2630745	255826	708445	+++++ 80.0	2.00 120	10.0 160	20.0	40.0
Dibromochloromethane	CBNZ d5	Ave	4171 540110	9274 784117	55714 1056327	98356	229325	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	4735 572080	10477 724976	60273 1076276	102871	244506	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	15362 1635971	28930 2073291	185806 2758216	298670	715039	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4578 565680	9310 758714	60497 997800	108087	247781	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	7562 887653	16358 1164276	102746 1563228	163196	403913	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	8759 1150536	19083 1462696	128823 1951120	206929	505494	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
o-Xylene	CBNZ d5	Ave	9831 1085881	23782 1432342	125874 1945281	210472	502115	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Styrene	CBNZ d5	Ave	14361 1807037	37239 2377113	201429 3253865	333048	819248	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromoform	CBNZ d5	Ave	2906 363030	6225 525428	38309 723239	70911	164608	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Isopropylbenzene	CBNZ d5	Ave	26044 2727885	55771 3621536	320834 4849848	522254	1271237	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7751 843951	19529 1087689	98841 1682800	164980	394582	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromobenzene	DCBd 4	Ave	6103 625073	15468 897214	76292 1336195	133920	292641	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	2856 277742	7073 378143	33941 543257	58331	134177	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2198 268293	4494 349603	30147 508069	45074	121536	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
n-Propylbenzene	DCBd 4	Ave	6470 722462	14811 1004987	86386 1447539	141874	335308	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	6634 610825	13592 844827	73516 1259021	123687	288795	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	17554 2114062	43601 2867428	250416 4279171	476426	999122	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
4-Chlorotoluene	DCBd 4	Ave	6491 615770	13920 864927	74622 1291849	142976	288403	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	17511 1833625	39497 2488936	207081 3711556	410479	832037	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	22303 2152543	44707 2868200	255743 4329767	521486	1004174	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	27515 2628984	56787 3983089	304124 4715586	583446	1203086	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	12678 1164577	28415 1762350	143474 2158288	289123	554995	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	19526 2242296	46274 3408231	262116 4040650	492942	1033800	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	14355 1187495	29584 1832355	144861 2187419	289977	569022	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
n-Butylbenzene	DCBd 4	Ave	15870 1902978	38698 2930188	218725 3326661	408355	888801	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	12873 1152915	27344 1768141	143813 2080580	282319	572071	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1683 206406	4295 286949	22950 380957	41982	85539	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	8280 673976	14830 899204	77534 1243231	139512	280319	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	3581 244373	6148 342826	27773 465852	49088	104077	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Naphthalene	DCBd 4	Ave	22904 2378356	48575 3047517	270015 4209448	470264	959515	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	7006 619750	13296 842599	74152 1197429	131236	260445	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 594419	+++++ 770621	68389 1043625	117634	289228	+++++ 40.0	+++++ 60.0	5.00 80.0	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 729798	+++++ 927672	88950 1255009	143083	345986	+++++ 40.0	+++++ 60.0	5.00 80.0	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 1808749	+++++ 3239682	254761 4317396	458994	858996	+++++ 40.0	+++++ 60.0	5.00 80.0	10.0	20.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 712692	+++++ 963194	90585 1438809	138527	344224	+++++ 40.0	+++++ 60.0	5.00 80.0	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 442963

SDG No.: MSA FMC

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/16/2020 17:43 Calibration End Date: 07/16/2020 20:20 Calibration ID: 57831

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442963/9	U1279113.D
Level 2	STD8260 240-442963/10	U1279114.D
Level 3	STD8260 240-442963/11	U1279115.D
Level 4	STD8260 240-442963/12	U1279116.D
Level 5	ICIS 240-442963/13	U1279117.D
Level 6	STD8260 240-442963/14	U1279118.D
Level 7	STD8260 240-442963/15	U1279119.D
Level 8	STD8260 240-442963/16	U1279120.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
n-Heptane	+++++	22.8						50				

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Jul-2020 17:43:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-009
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 21:23:41 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1057

First Level Reviewer: laveyt Date: 16-Jul-2020 18:10:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	98	1086472	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	640010	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	334969	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111		4.539				ND	ND	U
$ 5 1,2-Dichloroethane-d4 (Surr)	65		4.823				ND	ND	U
$ 6 Toluene-d8 (Surr)	98		6.456				ND	ND	U
$ 7 4-Bromofluorobenzene (Surr)	95		8.858				ND	ND	U
9 Dichlorodifluoromethane	85	1.392	1.403	-0.011	95	6491	0.5000	0.3825	
10 Chloromethane	50		1.605				ND	ND	U
11 Butadiene	54	1.640	1.652	-0.012	86	9181	0.5000	0.4591	
12 Vinyl chloride	62	1.687	1.687	0.000	94	8683	0.5000	0.4271	
14 Bromomethane	94	1.948	1.936	0.012	78	5457	0.5000	0.4048	
15 Chloroethane	64	1.983	1.995	-0.012	93	5911	0.5000	0.3994	
16 Dichlorofluoromethane	67	2.173	2.184	-0.011	94	12695	0.5000	0.4109	
17 Trichlorofluoromethane	101	2.173	2.184	-0.011	87	10566	0.5000	0.4444	
19 Ethyl ether	59	2.433	2.445	-0.012	91	6641	0.5000	0.4025	
20 Acrolein	56	2.551	2.563	-0.012	96	3163	2.50	2.22	
21 1,1-Dichloroethene	61	2.622	2.634	-0.012	94	8937	0.5000	0.4091	
22 112TCTFE	101	2.670	2.670	0.000	85	4626	0.5000	0.3605	
23 Acetone	43		2.693				ND	ND	U
24 Iodomethane	142	2.764	2.776	-0.012	95	8607	0.5000	0.3873	
25 Carbon disulfide	76	2.812	2.823	-0.011	99	20354	0.5000	0.4628	
27 3-Chloro-1-propene	41	2.942	2.954	-0.012	89	10788	0.5000	0.4404	
28 Methyl acetate	43	2.965	2.977	-0.012	96	14733	1.00	0.8847	
29 Methylene Chloride	49	3.048	3.060	-0.012	86	8975	0.5000	0.4496	
30 2-Methyl-2-propanol	59		3.167				ND	ND	U
31 Acrylonitrile	53	3.273	3.285	-0.012	99	38417	5.00	4.45	
32 trans-1,2-Dichloroethene	61	3.285	3.297	-0.012	67	9045	0.5000	0.4314	
33 Methyl tert-butyl ether	73	3.285	3.297	-0.012	95	20171	0.5000	0.4191	
34 Hexane	57		3.522				ND	ND	U
35 1,1-Dichloroethane	63	3.640	3.652	-0.012	92	10688	0.5000	0.3825	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43		3.699				ND	ND	U
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	80	9160	0.5000	0.4685	
40 2,2-Dichloropropane	77	4.137	4.137	0.000	58	8366	0.5000	0.4367	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	99	3292	1.00	0.9601	
46 Chlorobromomethane	49	4.326	4.338	-0.012	96	7517	0.5000	0.4729	
47 Tetrahydrofuran	42	4.373	4.374	-0.001	91	9909	1.00	1.13	
48 Chloroform	83	4.397	4.409	-0.012	94	13172	0.5000	0.4762	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	95	10524	0.5000	0.4799	
50 Cyclohexane	84	4.598	4.598	0.000	89	13162	0.5000	0.5070	
51 1,1-Dichloropropene	75	4.681	4.693	-0.012	92	10867	0.5000	0.4869	
52 Carbon tetrachloride	117	4.693	4.693	0.000	74	7731	0.5000	0.4328	
53 Isobutyl alcohol	41	4.788	4.788	0.000	93	11663	12.5	13.3	
54 Benzene	78	4.859	4.870	-0.011	96	33425	0.5000	0.5012	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	95	11198	0.5000	0.5168	
57 n-Heptane	57		5.083				ND	ND	U
59 Trichloroethene	130	5.403	5.403	0.000	94	6788	0.5000	0.4501	
61 Methylcyclohexane	83	5.569	5.569	0.000	86	13314	0.5000	0.5043	
62 1,2-Dichloropropane	63	5.592	5.604	-0.012	93	7452	0.5000	0.5174	
65 1,4-Dioxane	88		5.711				ND	ND	U
64 Dibromomethane	174	5.699	5.711	-0.012	96	5148	0.5000	0.5035	
66 Dichlorobromomethane	83	5.829	5.829	0.000	95	8768	0.5000	0.4873	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	9938	1.00	0.9162	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	10714	0.5000	0.4700	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	95	23654	1.00	1.00	
71 Toluene	91	6.503	6.515	-0.012	99	29652	0.5000	0.5584	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	92	9385	0.5000	0.5455	
74 Ethyl methacrylate	69	6.776	6.776	0.000	86	8596	0.5000	0.4954	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	86	5581	0.5000	0.5367	
76 Tetrachloroethene	166	7.000	7.000	0.000	91	7475	0.5000	0.5883	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	92	9610	0.5000	0.4926	
78 2-Hexanone	43		7.095				ND	ND	U
80 Chlorodibromomethane	129	7.225	7.225	0.000	85	4171	0.5000	0.4081	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	4735	0.5000	0.4405	
83 Chlorobenzene	112	7.781	7.781	0.000	96	15362	0.5000	0.4948	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	86	4578	0.5000	0.4326	
85 Ethylbenzene	106	7.876	7.876	0.000	98	7562	0.5000	0.4436	
86 m-Xylene & p-Xylene	106	7.982	7.983	-0.001	98	8759	0.5000	0.4148	
87 o-Xylene	106	8.361	8.361	0.000	95	9831	0.5000	0.4521	
88 Styrene	104	8.373	8.373	0.000	94	14361	0.5000	0.4114	
89 Bromoform	173	8.550	8.551	-0.001	90	2906	0.5000	0.4125	
90 Isopropylbenzene	105	8.704	8.704	0.000	94	26044	0.5000	0.4779	
92 Bromobenzene	156	9.000	9.000	0.000	88	6103	0.5000	0.4662	
93 1,1,2,2-Tetrachloroethane	83	8.988	9.000	-0.012	85	7751	0.5000	0.4628	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	81	2856	0.5000	0.4944	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.048	-0.001	70	2198	0.5000	0.4484	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	6470	0.5000	0.4541	
97 2-Chlorotoluene	126	9.178	9.178	0.000	96	6634	0.5000	0.5274	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	17554	0.5000	0.4179	
99 4-Chlorotoluene	126	9.284	9.284	0.000	97	6491	0.5000	0.5030	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	17511	0.5000	0.4763	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	22303	0.5000	0.5055	
105 sec-Butylbenzene	105	9.793	9.793	0.000	93	27515	0.5000	0.5160	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	96	12678	0.5000	0.5102	
107 4-Isopropyltoluene	119	9.935	9.947	-0.012	95	19526	0.5000	0.4403	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	14355	0.5000	0.5577	
111 n-Butylbenzene	91	10.337	10.337	0.000	96	15870	0.5000	0.4268	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	95	12873	0.5000	0.5220	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	78	1683	0.5000	0.4302	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	-0.001	87	8280	0.5000	0.6095	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	83	3581	0.5000	0.6888	
117 Naphthalene	128	12.195	12.195	0.000	95	22904	0.5000	0.5091	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	92	7006	0.5000	0.5598	
S 124 Trihalomethanes, Total	1				0		2.00	1.78	
S 125 Total BTEX	1				0		2.50	2.37	
S 126 1,2-Dichloroethene, Total	96				0			0.9000	
S 127 1,3-Dichloropropene, Total	75				0			1.02	
S 128 Xylenes, Total	106				0		1.00	0.8670	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL
VMRGAS_00347	Amount Added:	0.40	Units: uL
vmarolistdw_00352	Amount Added:	0.40	Units: uL
vmrprimw_00394	Amount Added:	0.40	Units: uL
vm50ss_00410	Amount Added:	0.40	Units: uL

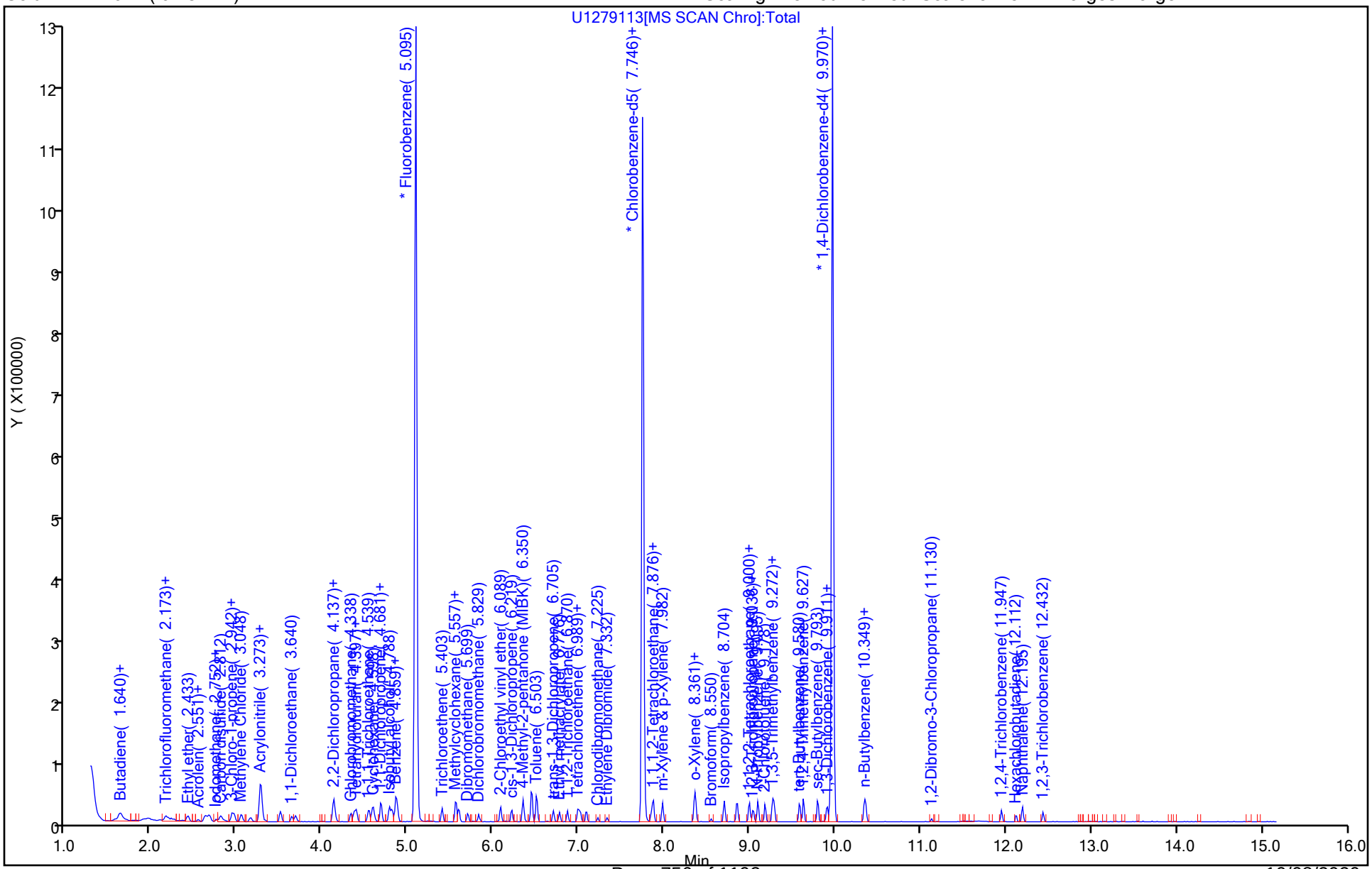
Report Date: 16-Jul-2020 21:23:44 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D

Injection Date:	16-Jul-2020 17:43:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L1			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

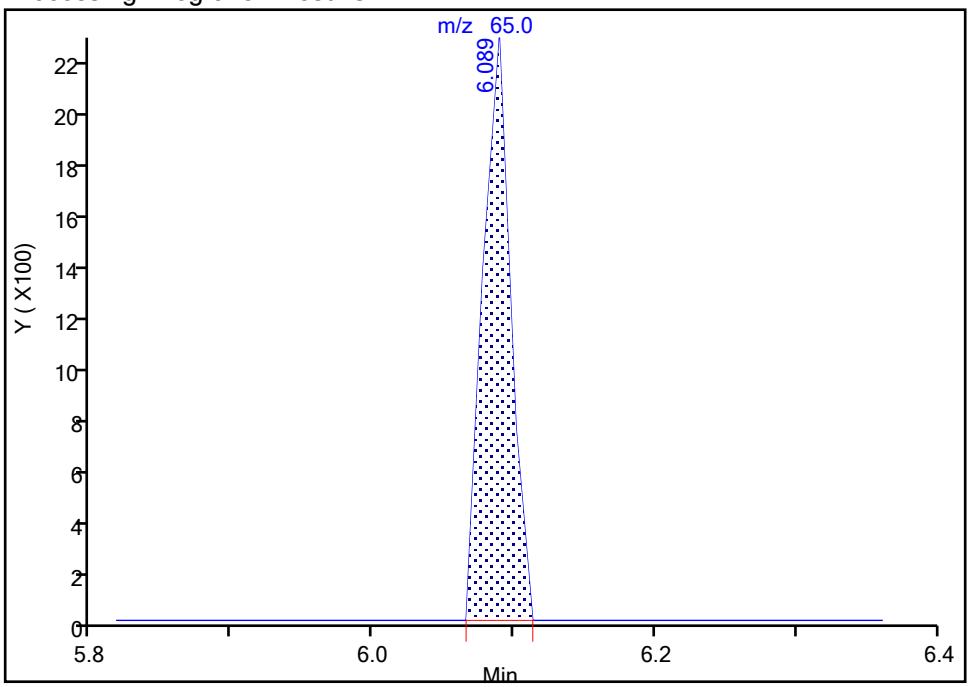
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

68 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 2

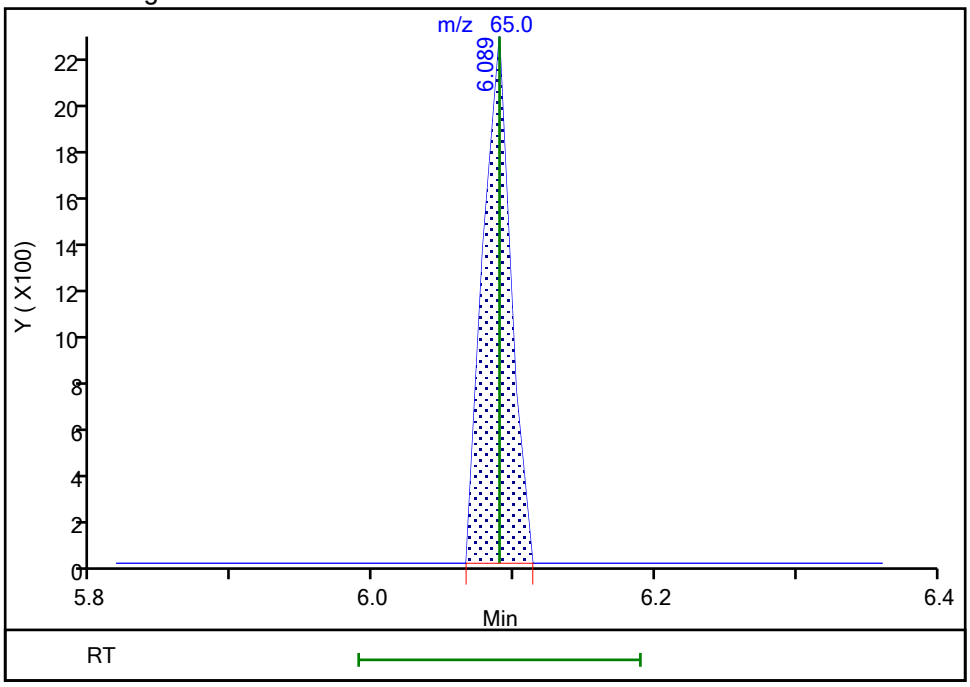
Processing Integration Results

RT: 6.09
Area: 3022
Amount: 0.928679
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 3022
Amount: 0.916162
Amount Units: ug/l



Reviewer: laveyt, 16-Jul-2020 20:34:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

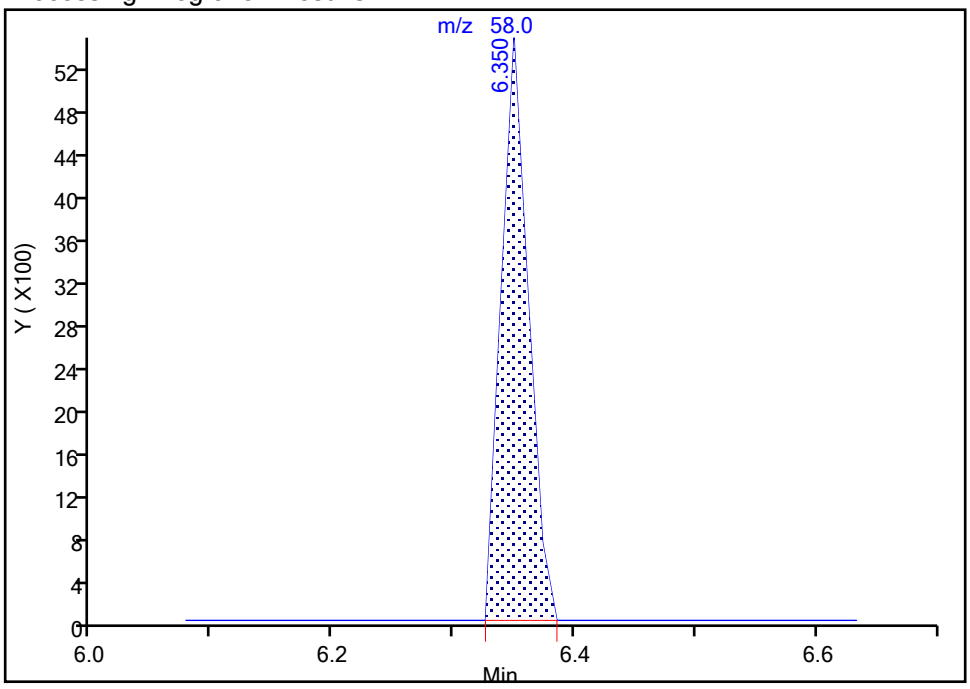
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 2

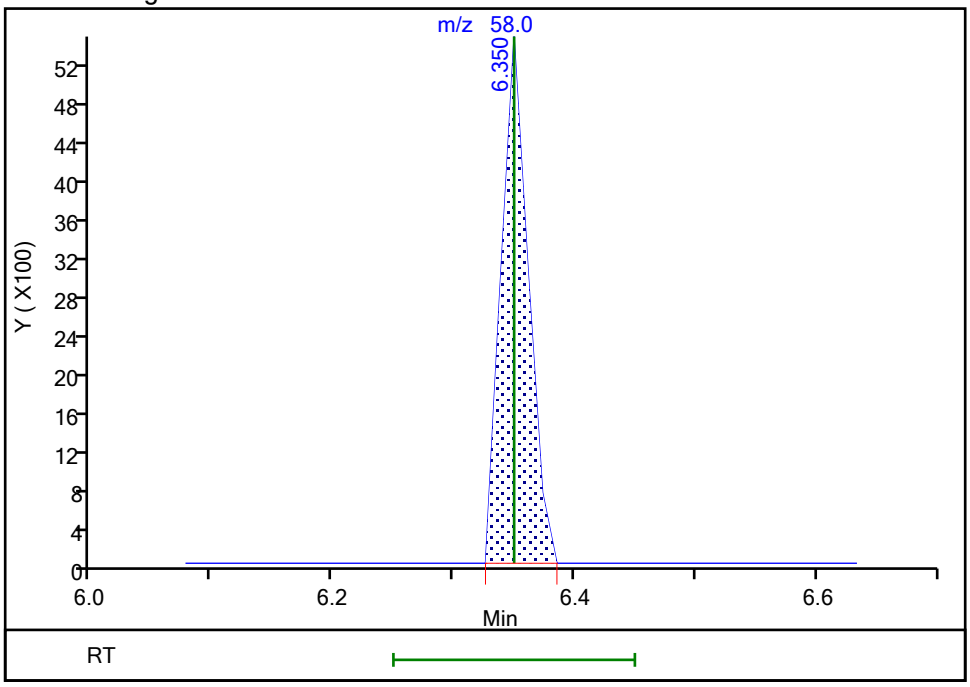
Processing Integration Results

RT: 6.35
Area: 8536
Amount: 1.007725
Amount Units: ug/l



Manual Integration Results

RT: 6.35
Area: 8536
Amount: 1.003046
Amount Units: ug/l



Reviewer: laveyt, 16-Jul-2020 20:54:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

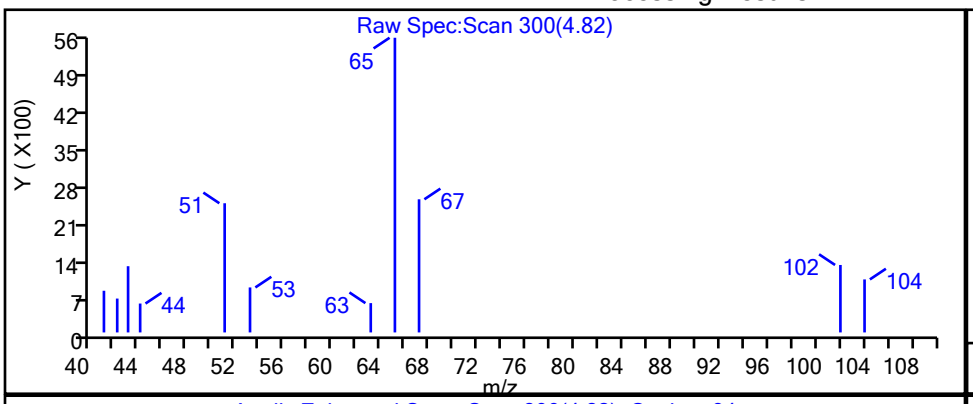
User Disabled Compound Report

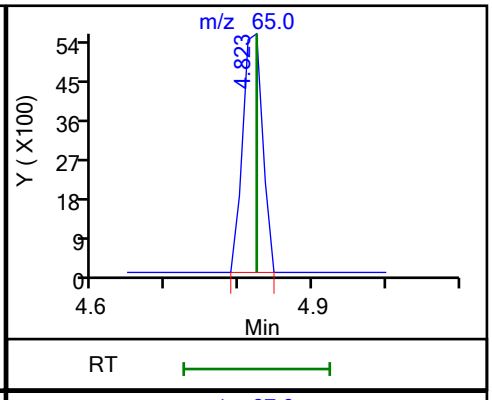
Eurofins TestAmerica, Canton

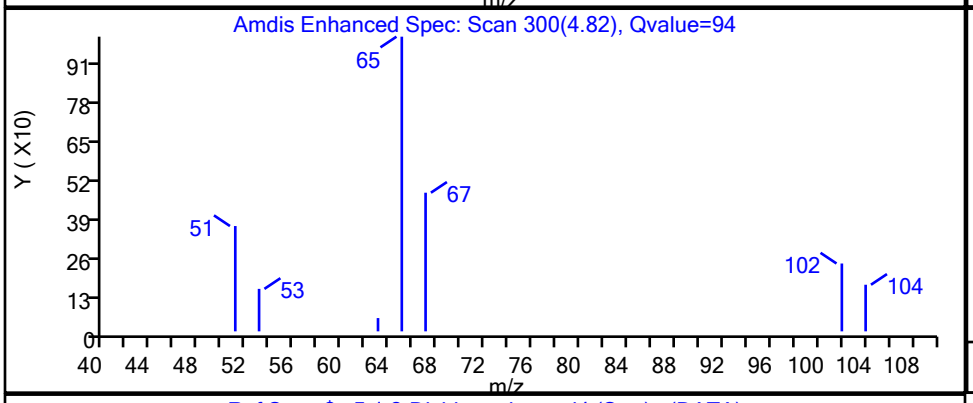
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

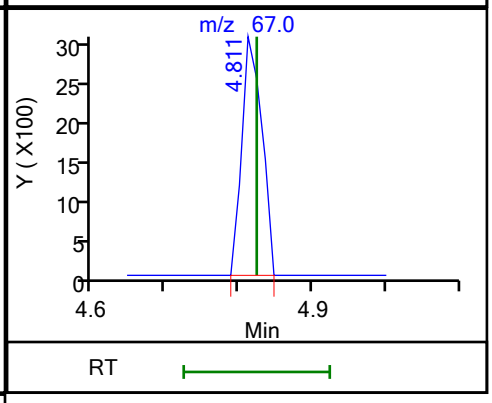
$ 5 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

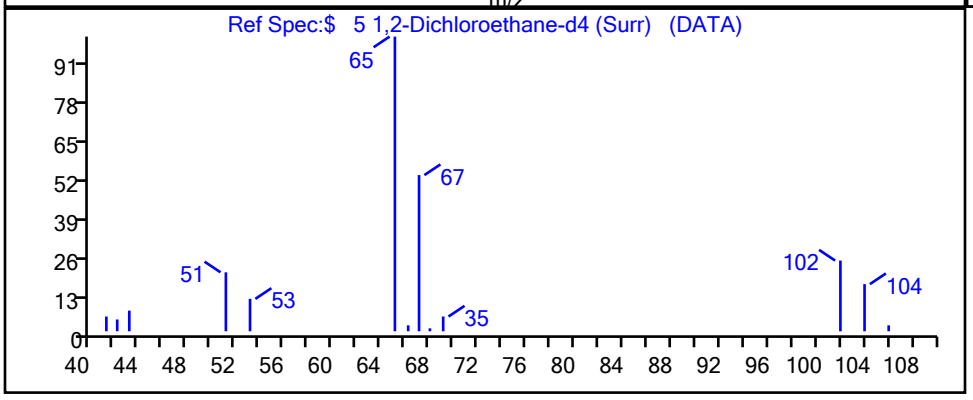
Processing Results











RT	Mass	Response	Amount
4.82	65.00	10451	0.548781
4.81	67.00	5764	

Reviewer: laveyt, 16-Jul-2020 20:28:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

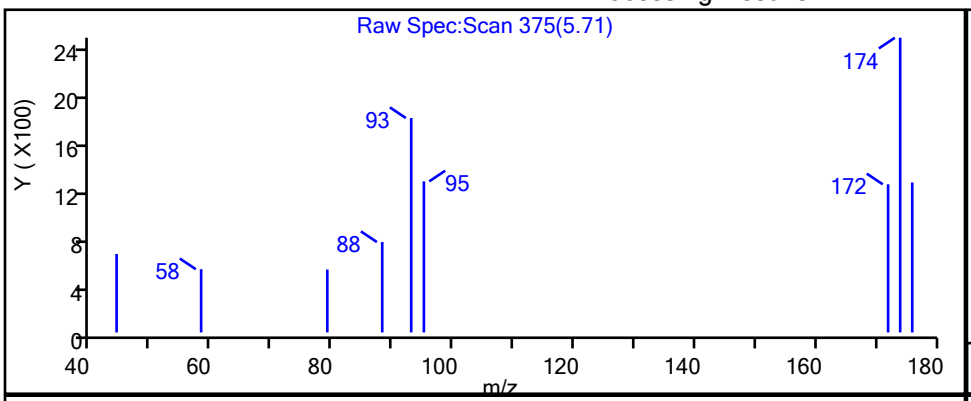
User Disabled Compound Report

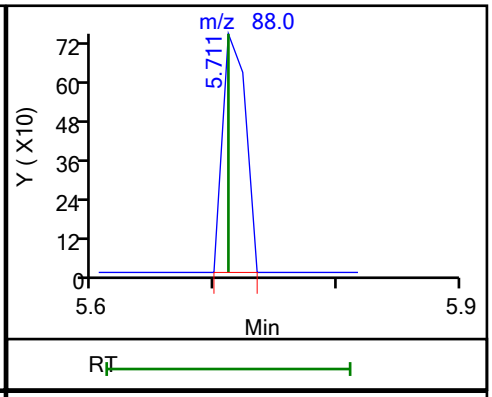
Eurofins TestAmerica, Canton

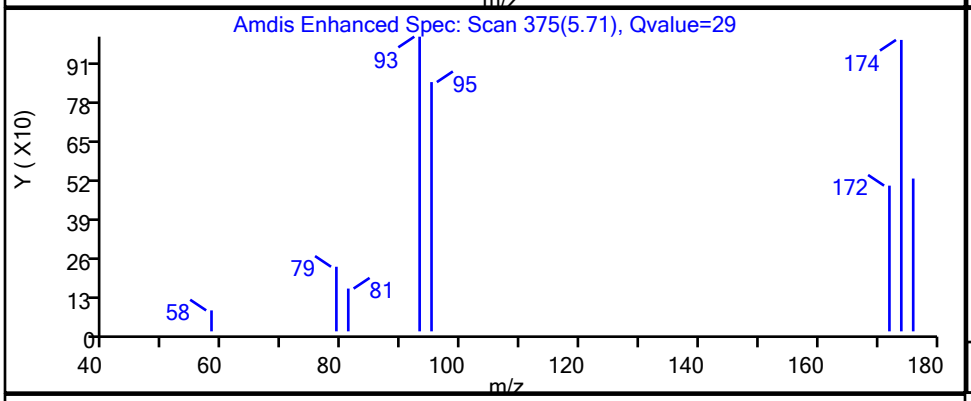
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

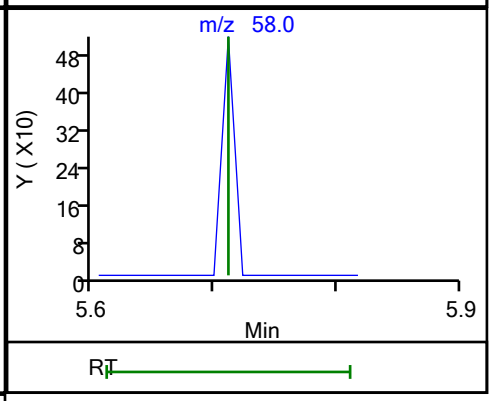
65 1,4-Dioxane, CAS: 123-91-1

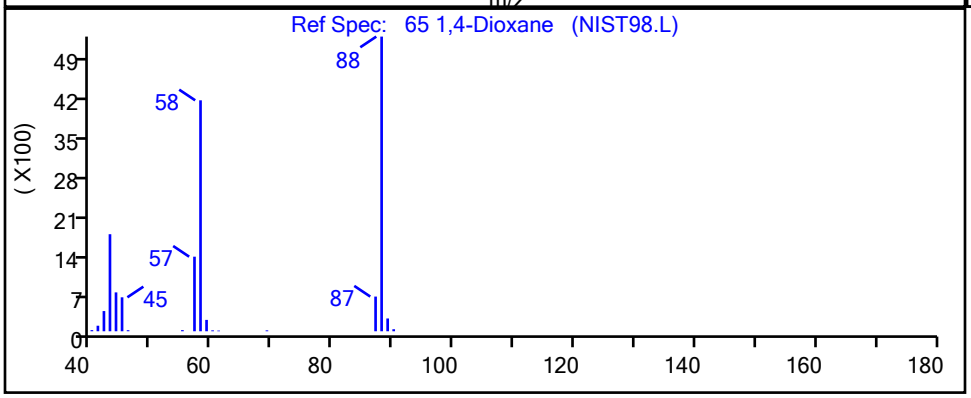
Processing Results











RT	Mass	Response	Amount
5.71	88.00	968	6.093216
5.71	58.00	0	

Reviewer: laveyt, 16-Jul-2020 20:33:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

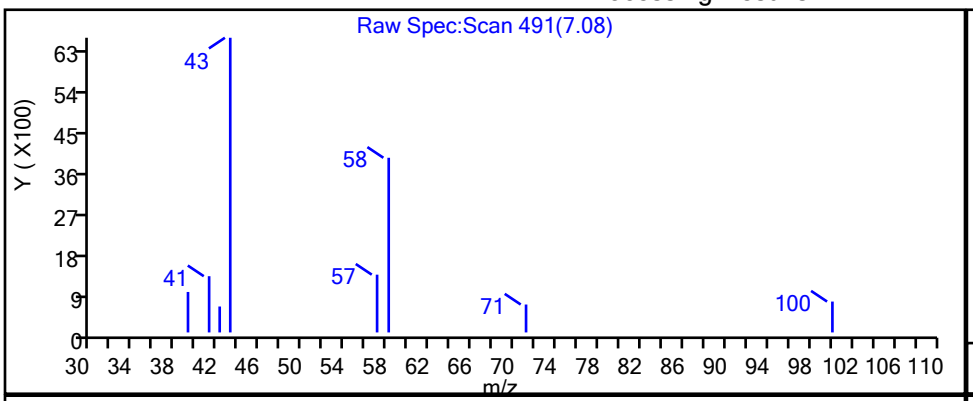
User Disabled Compound Report

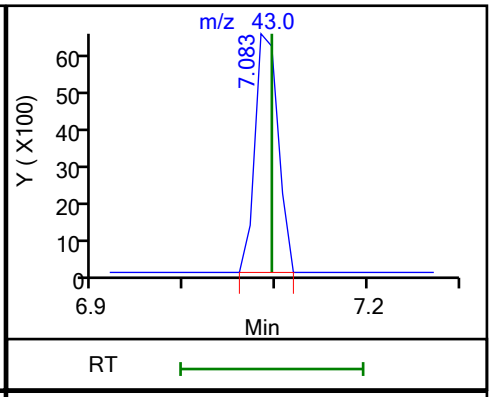
Eurofins TestAmerica, Canton

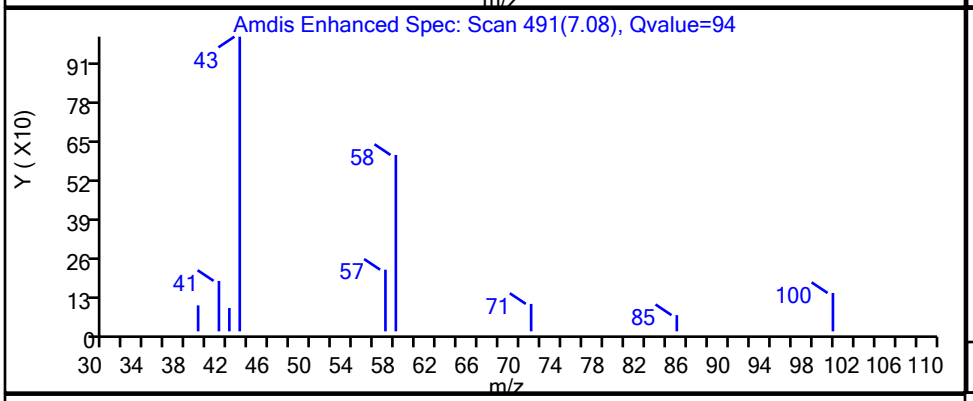
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

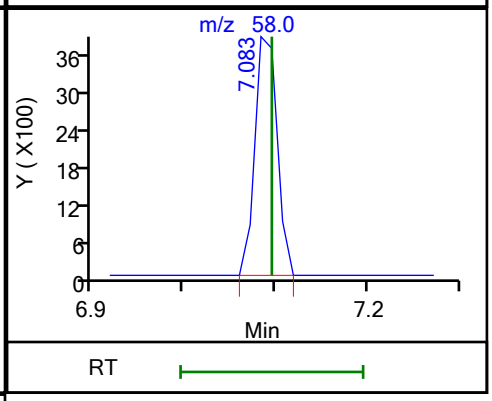
78 2-Hexanone, CAS: 591-78-6

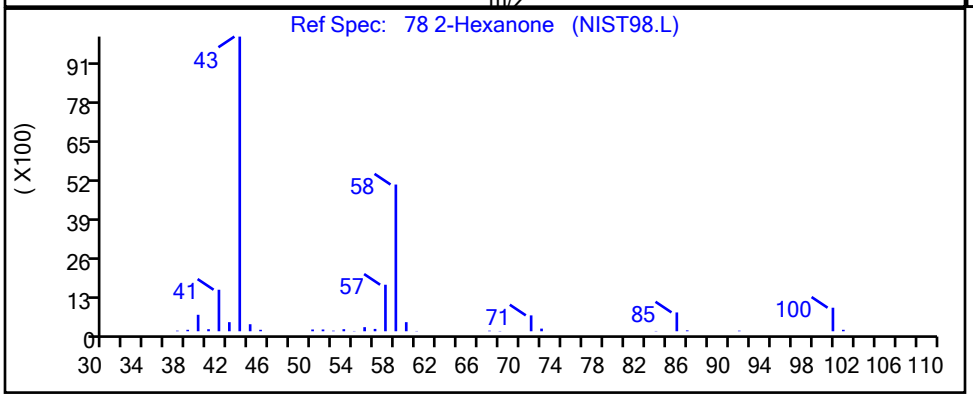
Processing Results











RT	Mass	Response	Amount
7.08	43.00	11432	0.849644
7.08	58.00	6539	

Reviewer: laveyt, 16-Jul-2020 20:55:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

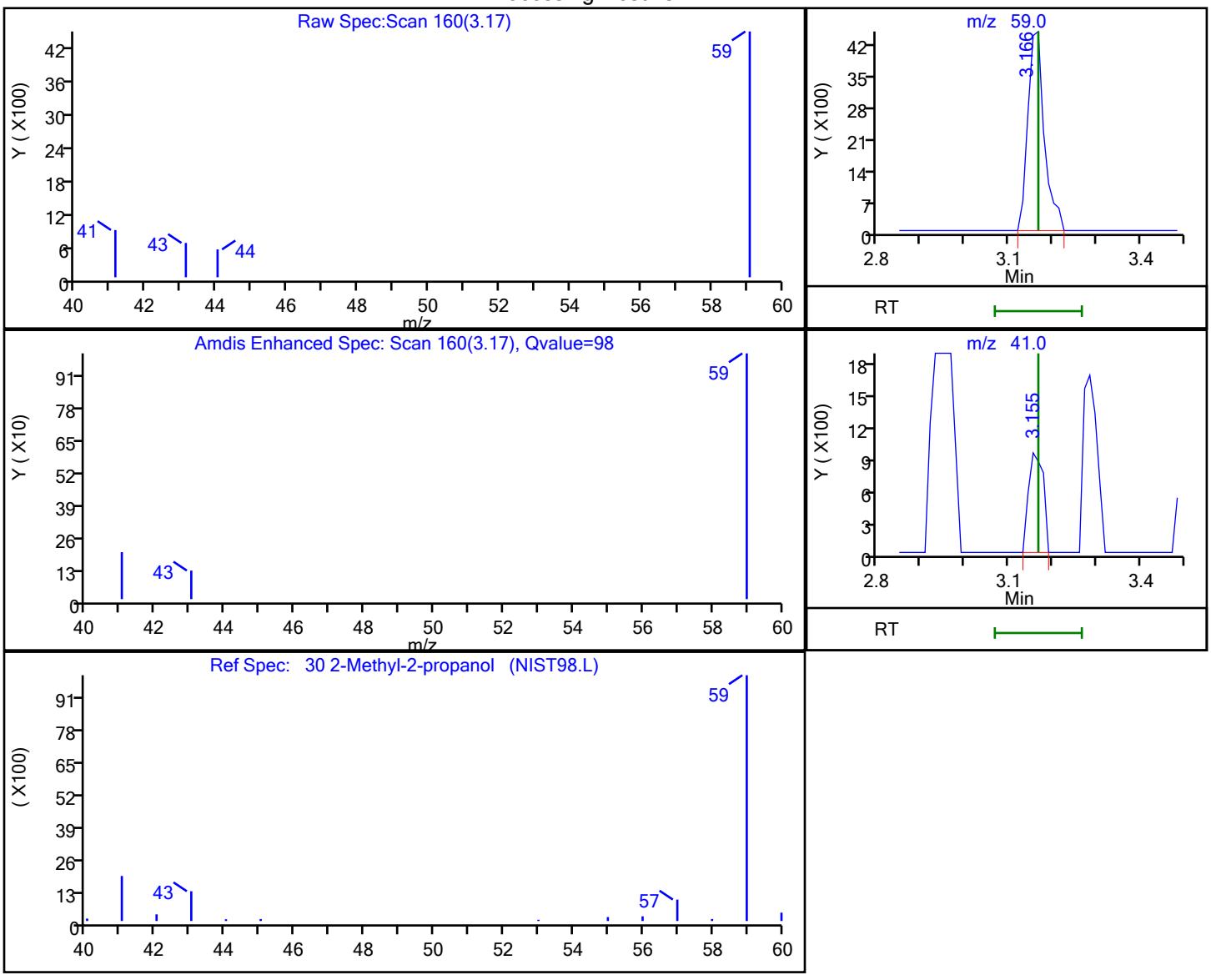
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D				
Injection Date:	16-Jul-2020 17:43:30	Instrument ID:	A3UX12		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	5	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

30 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
3.17	59.00	11702	5.577747
3.15	41.00	2196	

Reviewer: laveyt, 16-Jul-2020 21:11:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

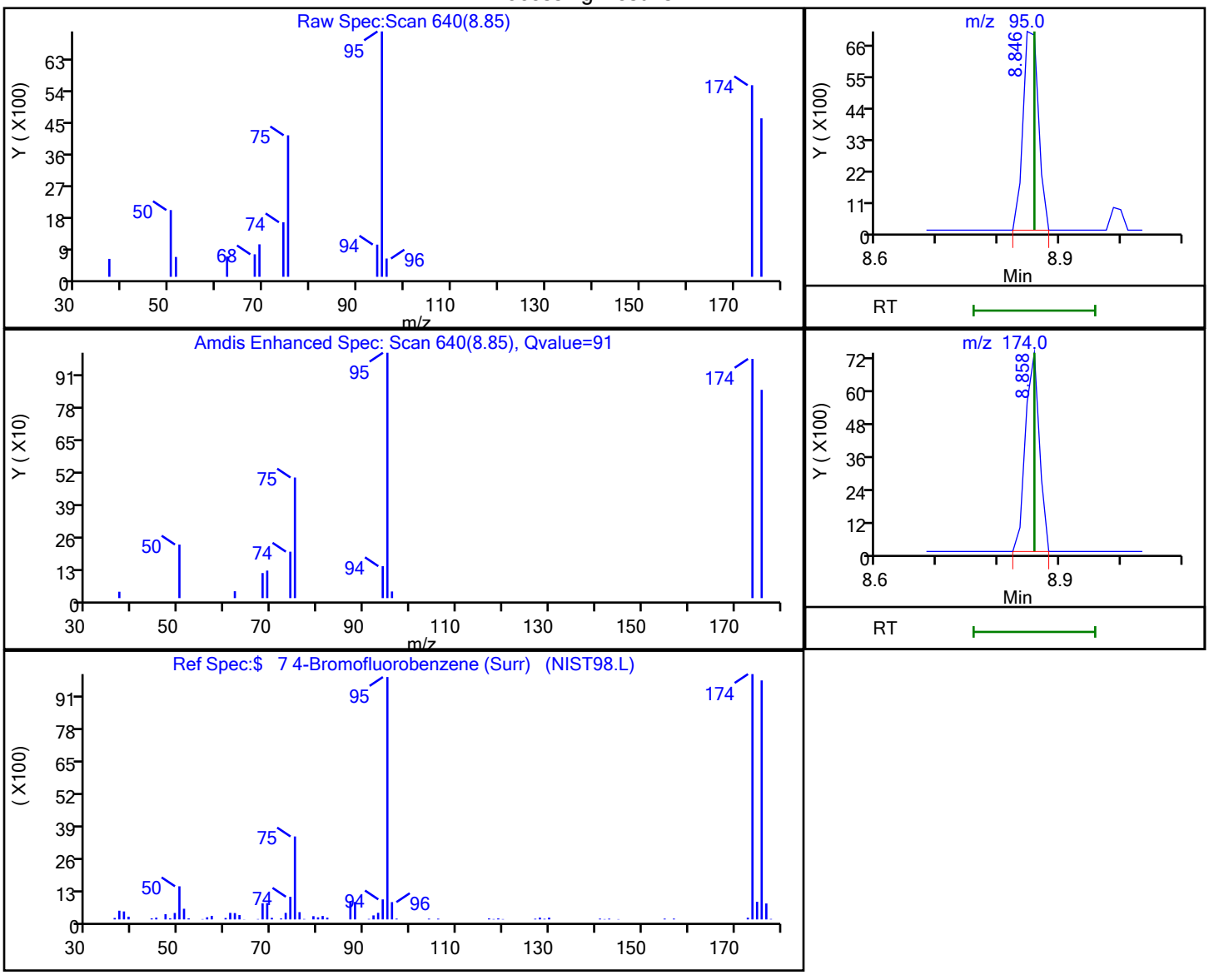
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Processing Results



RT	Mass	Response	Amount
8.85	95.00	12505	0.601023
8.86	174.00	11586	

Reviewer: laveyt, 16-Jul-2020 20:28:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

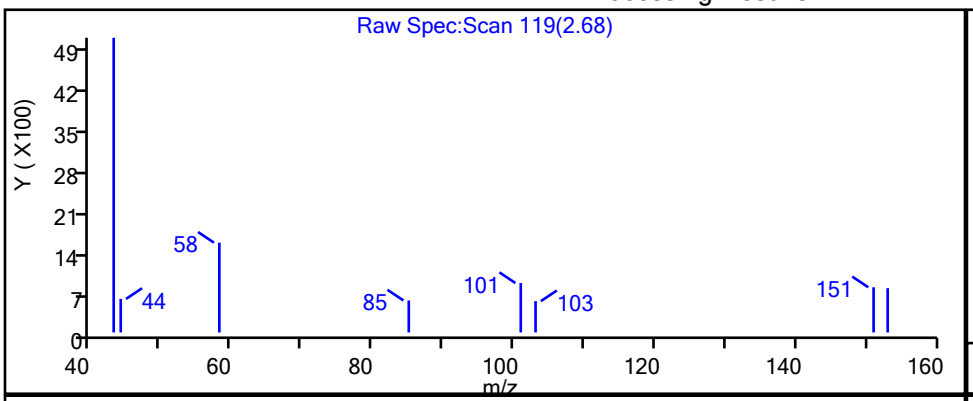
User Disabled Compound Report

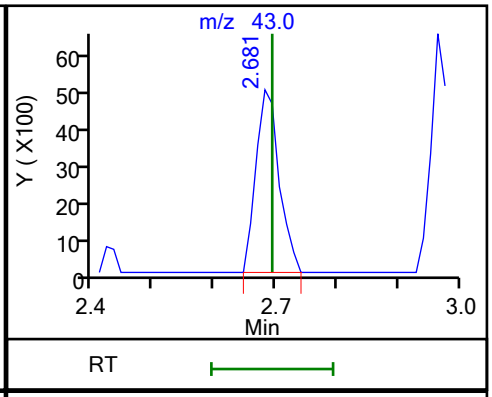
Eurofins TestAmerica, Canton

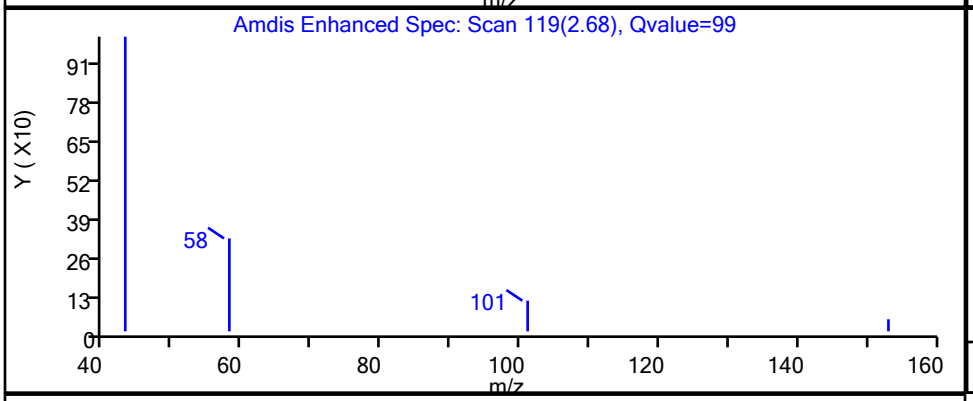
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

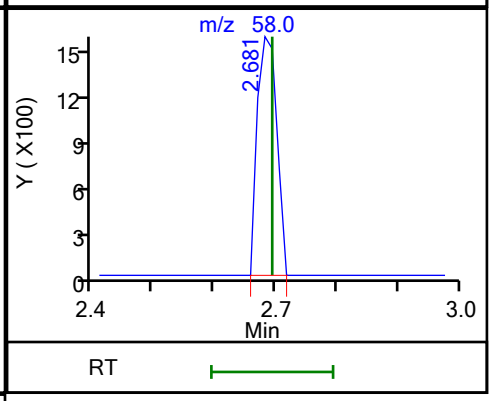
23 Acetone, CAS: 67-64-1

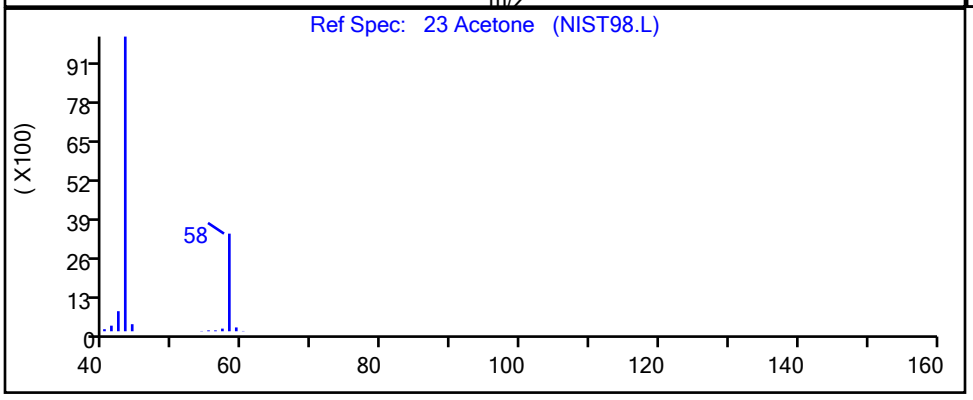
Processing Results











RT	Mass	Response	Amount
2.68	43.00	13251	1.316877
2.68	58.00	3390	

Reviewer: laveyt, 16-Jul-2020 18:54:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

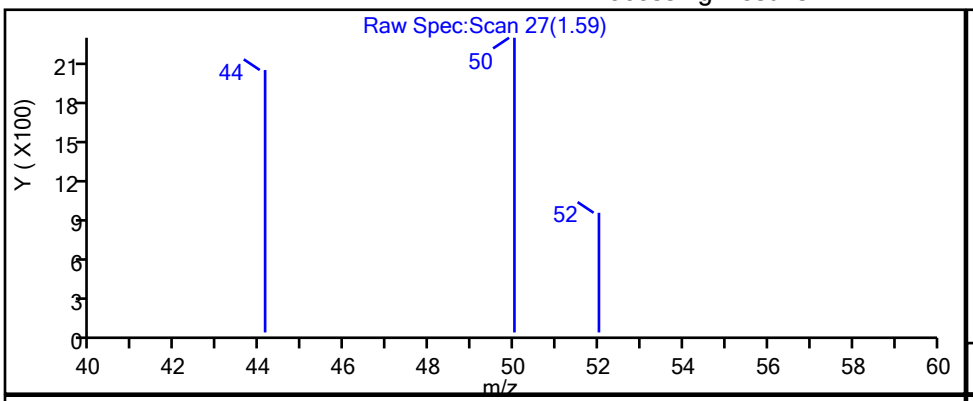
User Disabled Compound Report

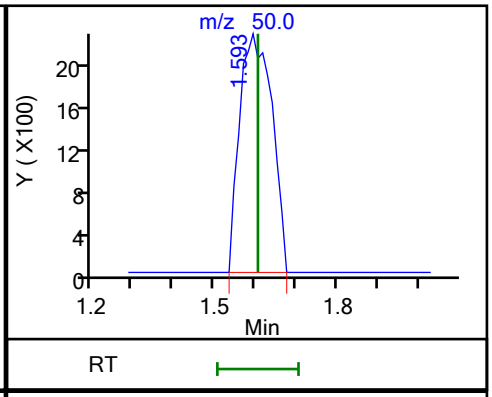
Eurofins TestAmerica, Canton

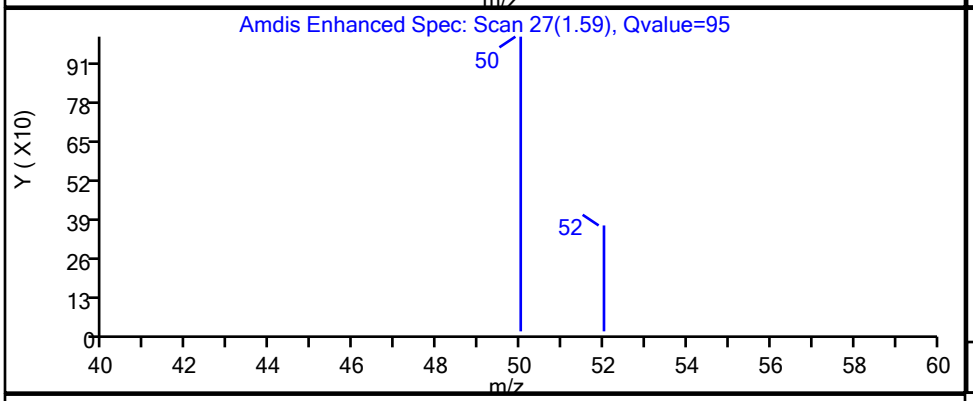
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

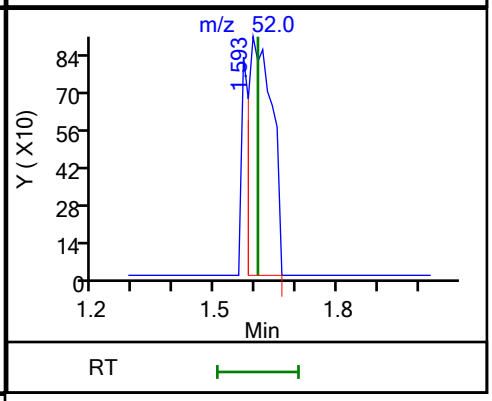
10 Chloromethane, CAS: 74-87-3

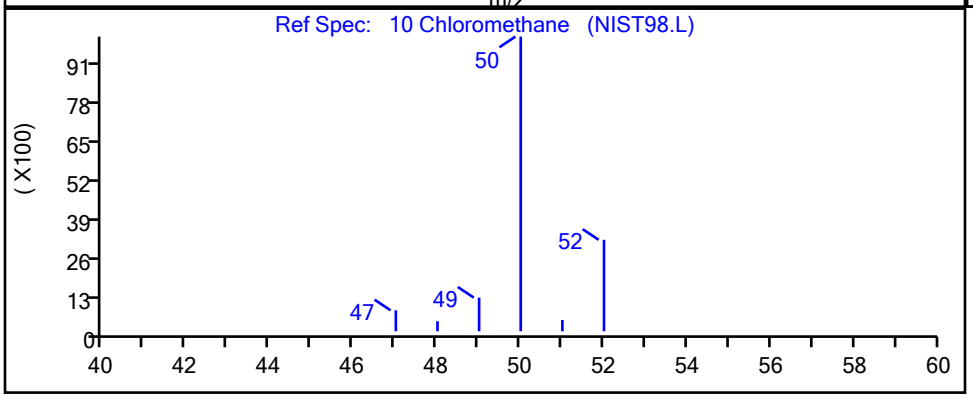
Processing Results











RT	Mass	Response	Amount
1.59	50.00	12359	0.432887
1.59	52.00	3652	

Reviewer: laveyt, 16-Jul-2020 20:36:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

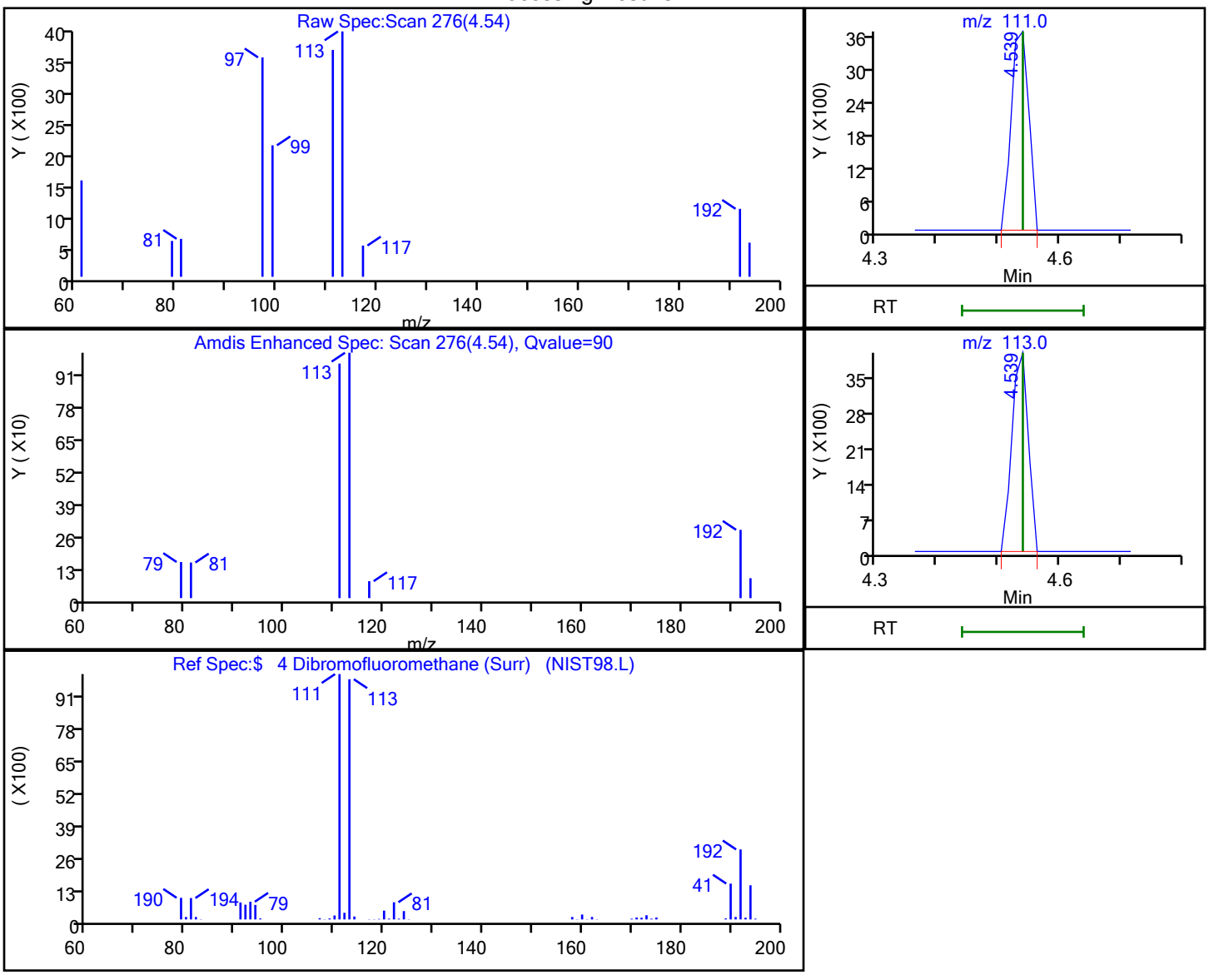
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 4 Dibromofluoromethane (Surr), CAS: 1868-53-7

Processing Results



RT	Mass	Response	Amount
4.54	111.00	7389	0.502294
4.54	113.00	7459	

Reviewer: laveyt, 16-Jul-2020 20:28:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

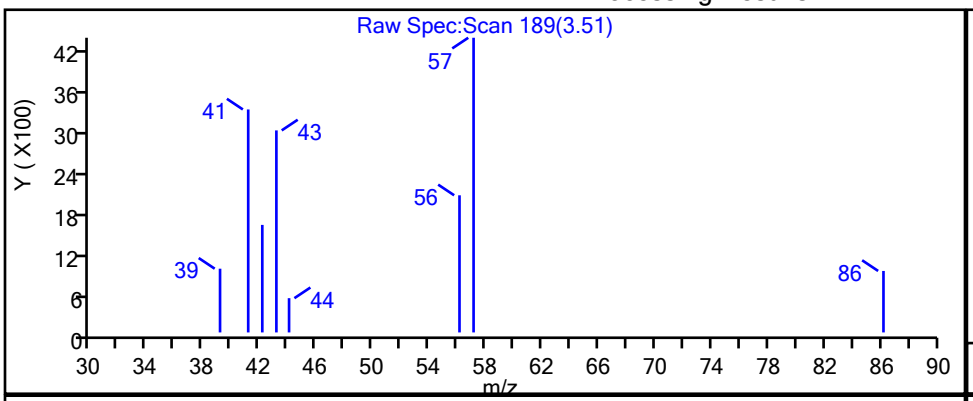
User Disabled Compound Report

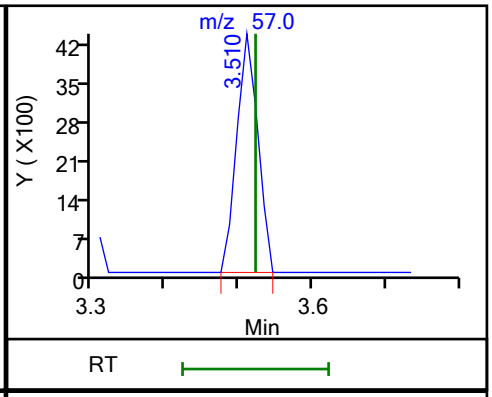
Eurofins TestAmerica, Canton

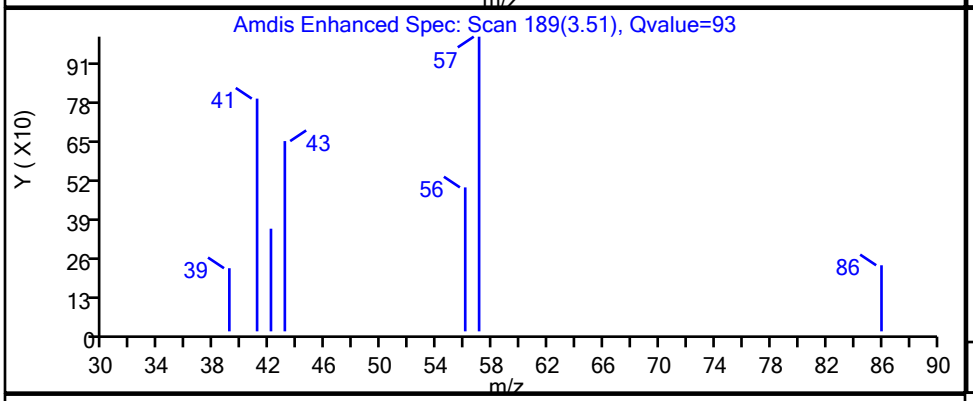
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

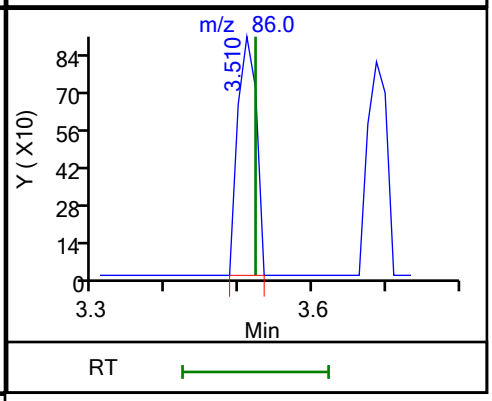
34 Hexane, CAS: 110-54-3

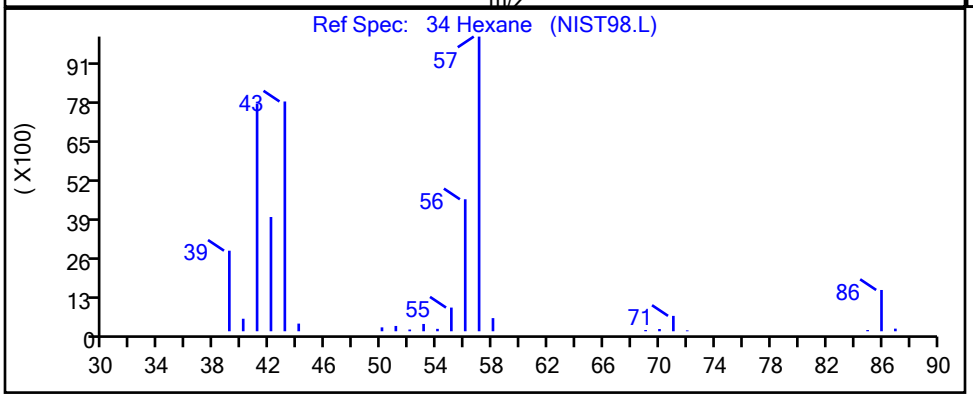
Processing Results











RT	Mass	Response	Amount
3.51	57.00	8658	0.390696
3.51	86.00	1601	

Reviewer: laveyt, 16-Jul-2020 20:37:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

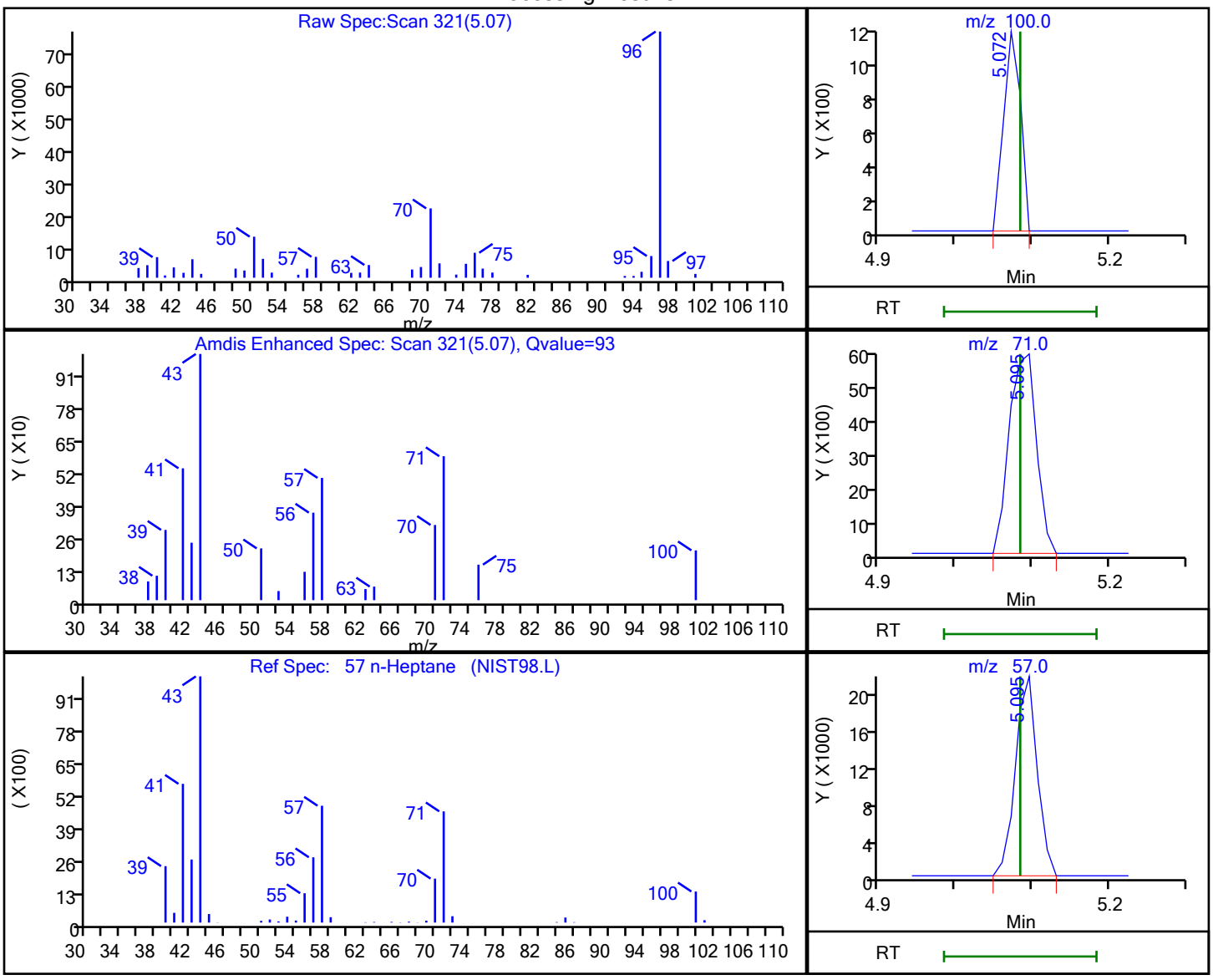
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

57 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.07	100.00	1822	
5.10	71.00	14789	
5.10	57.00	43282	0.854800

Reviewer: laveyt, 16-Jul-2020 18:56:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

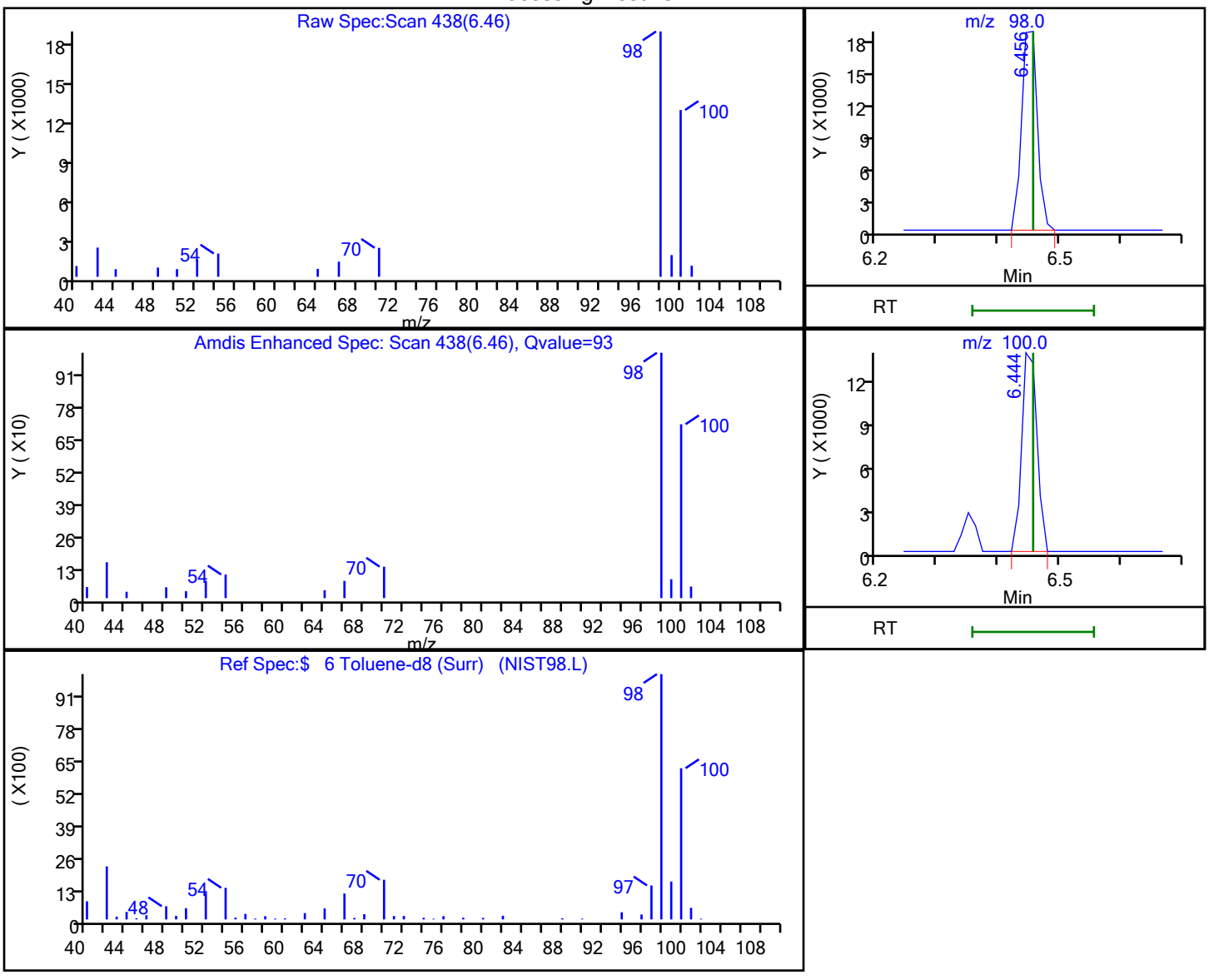
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D
Injection Date: 16-Jul-2020 17:43:30 Instrument ID: A3UX12
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Processing Results



RT	Mass	Response	Amount
6.46	98.00	32928	0.639609
6.44	100.00	22734	

Reviewer: laveyt, 16-Jul-2020 18:52:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

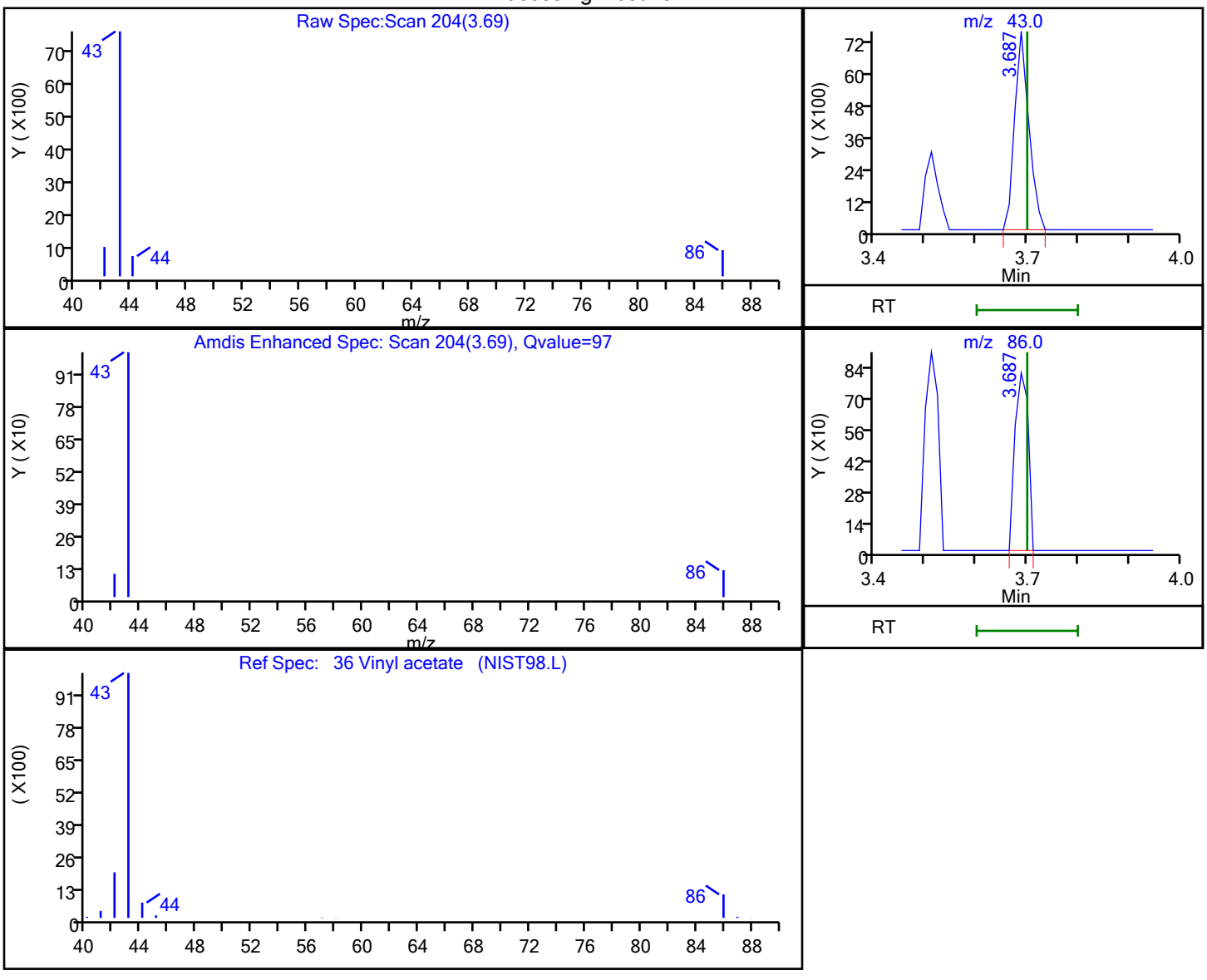
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279113.D				
Injection Date:	16-Jul-2020 17:43:30	Instrument ID:	A3UX12		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	5	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

36 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
3.69	43.00	14773	0.396541
3.69	86.00	1467	

Reviewer: laveyt, 16-Jul-2020 20:37:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279114.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Jul-2020 18:05:30 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-010
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 21:23:48 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1057

First Level Reviewer: laveyt Date: 16-Jul-2020 18:44:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1013893	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	604161	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	366234	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111		4.539				ND	ND	U
$ 5 1,2-Dichloroethane-d4 (Surr)	65		4.823				ND	ND	U
$ 6 Toluene-d8 (Surr)	98		6.456				ND	ND	U
$ 7 4-Bromofluorobenzene (Surr)	95		8.858				ND	ND	U
9 Dichlorodifluoromethane	85	1.415	1.403	0.012	96	12858	1.00	0.8119	
10 Chloromethane	50	1.605	1.605	0.000	93	22907	1.00	0.8509	
11 Butadiene	54	1.652	1.652	0.000	86	16845	1.00	0.9027	
12 Vinyl chloride	62	1.687	1.687	0.000	95	17064	1.00	0.8994	
14 Bromomethane	94	1.936	1.936	0.000	86	11010	1.00	0.8753	
15 Chloroethane	64	1.995	1.995	0.000	98	11645	1.00	0.8432	
16 Dichlorofluoromethane	67	2.184	2.184	0.000	96	26597	1.00	0.9224	
17 Trichlorofluoromethane	101	2.208	2.184	0.024	88	22183	1.00	1.00	
19 Ethyl ether	59	2.445	2.445	0.000	92	14820	1.00	0.9625	
20 Acrolein	56	2.563	2.563	0.000	94	6778	5.00	5.11	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	96	21022	1.00	1.03	
22 112TCTFE	101	2.670	2.670	0.000	88	11895	1.00	0.99	
23 Acetone	43	2.693	2.693	0.000	99	16108	2.00	2.50	
24 Iodomethane	142	2.776	2.776	0.000	97	19223	1.00	0.9270	
25 Carbon disulfide	76	2.823	2.823	0.000	99	37146	1.00	0.9050	
27 3-Chloro-1-propene	41	2.954	2.954	0.000	91	20839	1.00	0.9116	
28 Methyl acetate	43	2.977	2.977	0.000	98	28394	2.00	1.83	
29 Methylene Chloride	49	3.060	3.060	0.000	91	17390	1.00	0.9336	
30 2-Methyl-2-propanol	59	3.167	3.167	0.000	99	17528	10.0	9.10	
31 Acrylonitrile	53	3.285	3.285	0.000	98	67455	10.0	8.38	
32 trans-1,2-Dichloroethene	61	3.297	3.297	0.000	65	16647	1.00	0.8509	
33 Methyl tert-butyl ether	73	3.297	3.297	0.000	96	39426	1.00	0.8777	
34 Hexane	57	3.522	3.522	0.000	92	17358	1.00	0.8009	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	23537	1.00	0.9027	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.699	3.699	0.000	97	28476	1.00	0.7752	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	83	17440	1.00	0.9559	
40 2,2-Dichloropropane	77	4.137	4.137	0.000	60	16418	1.00	0.9184	
42 2-Butanone (MEK)	72	4.160	4.149	0.011	99	5020	2.00	1.57	
46 Chlorobromomethane	49	4.338	4.338	0.000	96	14016	1.00	0.9449	
47 Tetrahydrofuran	42	4.373	4.374	-0.001	86	14616	2.00	1.79	
48 Chloroform	83	4.409	4.409	0.000	93	25004	1.00	0.9686	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	98	18522	1.00	0.9050	
50 Cyclohexane	84	4.598	4.598	0.000	91	25331	1.00	1.05	
52 Carbon tetrachloride	117	4.693	4.693	0.000	79	15810	1.00	0.9485	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	92	19325	1.00	0.9279	
53 Isobutyl alcohol	41	4.788	4.788	0.000	94	19594	25.0	24.0	
54 Benzene	78	4.870	4.870	0.000	96	62890	1.00	1.01	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	19689	1.00	0.9736	
57 n-Heptane	57	5.095	5.083	0.012	84	44411	1.00	1.23	
59 Trichloroethene	130	5.403	5.403	0.000	97	13562	1.00	0.9637	
61 Methylcyclohexane	83	5.569	5.569	0.000	87	25703	1.00	1.04	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	91	12467	1.00	0.9275	
64 Dibromomethane	174	5.711	5.711	0.000	92	7950	1.00	0.8331	
65 1,4-Dioxane	88	5.711	5.711	0.000	32	1282	20.0	7.31	
66 Dichlorobromomethane	83	5.829	5.829	0.000	96	12908	1.00	0.7687	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	90	14412	2.00	1.42	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	93	15367	1.00	0.7223	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	96	33198	2.00	1.51	
71 Toluene	91	6.515	6.515	0.000	97	46282	1.00	0.9233	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	94	14175	1.00	0.8727	
74 Ethyl methacrylate	69	6.776	6.776	0.000	86	14331	1.00	0.8749	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	90	8974	1.00	0.9142	
76 Tetrachloroethene	166	7.000	7.000	0.000	95	11469	1.00	0.9562	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	18373	1.00	1.00	
78 2-Hexanone	43	7.095	7.095	0.000	95	22216	2.00	1.69	
80 Chlorodibromomethane	129	7.225	7.225	0.000	83	9274	1.00	0.9613	
81 Ethylene Dibromide	107	7.332	7.332	0.000	90	10477	1.00	1.03	
83 Chlorobenzene	112	7.781	7.781	0.000	92	28930	1.00	0.9872	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	92	9310	1.00	0.9319	
85 Ethylbenzene	106	7.876	7.876	0.000	98	16358	1.00	1.02	
86 m-Xylene & p-Xylene	106	7.983	7.983	0.000	98	19083	1.00	0.9574	
87 o-Xylene	106	8.361	8.361	0.000	97	23782	1.00	1.16	
88 Styrene	104	8.373	8.373	0.000	95	37239	1.00	1.13	
89 Bromoform	173	8.550	8.551	-0.001	96	6225	1.00	0.9361	
90 Isopropylbenzene	105	8.704	8.704	0.000	95	55771	1.00	1.08	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	90	19529	1.00	1.07	
92 Bromobenzene	156	9.000	9.000	0.000	92	15468	1.00	1.08	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	85	7073	1.00	1.12	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.048	-0.001	70	4494	1.00	0.8385	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	14811	1.00	0.9509	
97 2-Chlorotoluene	126	9.189	9.178	0.011	96	13592	1.00	0.9883	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	43601	1.00	0.9494	
99 4-Chlorotoluene	126	9.284	9.284	0.000	98	13920	1.00	0.9867	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	39497	1.00	0.9825	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	96	44707	1.00	0.9269	
105 sec-Butylbenzene	105	9.793	9.793	0.000	94	56787	1.00	0.9740	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	97	28415	1.00	1.05	
107 4-Isopropyltoluene	119	9.935	9.947	-0.012	97	46274	1.00	0.9544	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	96	29584	1.00	1.05	
111 n-Butylbenzene	91	10.337	10.337	0.000	98	38698	1.00	0.9519	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	97	27344	1.00	1.01	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	81	4295	1.00	1.00	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	92	14830	1.00	1.00	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	91	6148	1.00	1.08	
117 Naphthalene	128	12.195	12.195	0.000	97	48575	1.00	0.9875	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	94	13296	1.00	0.9717	
S 124 Trihalomethanes, Total	1				0		4.00	3.63	
S 125 Total BTEX	1				0		5.00	5.07	
S 126 1,2-Dichloroethene, Total	96				0			1.81	
S 127 1,3-Dichloropropene, Total	75				0			1.60	
S 128 Xylenes, Total	106				0		2.00	2.12	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL
VMRGAS_00347	Amount Added:	0.80	Units: uL
vmarolistdw_00352	Amount Added:	0.80	Units: uL
vmrprimw_00394	Amount Added:	0.80	Units: uL
vm50ss_00410	Amount Added:	0.80	Units: uL

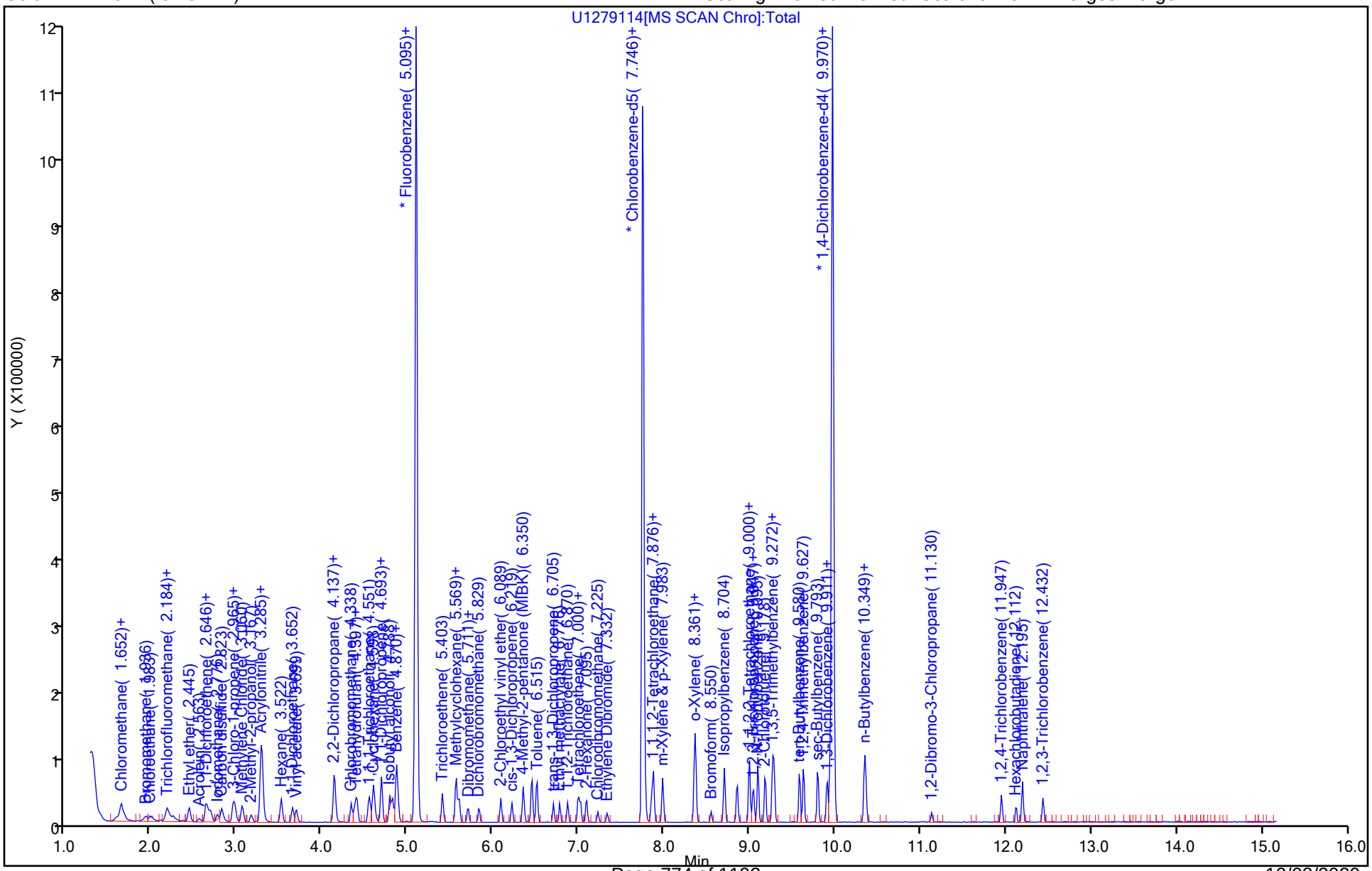
Report Date: 16-Jul-2020 21:23:50 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279114.D

Injection Date:	16-Jul-2020 18:05:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L2			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



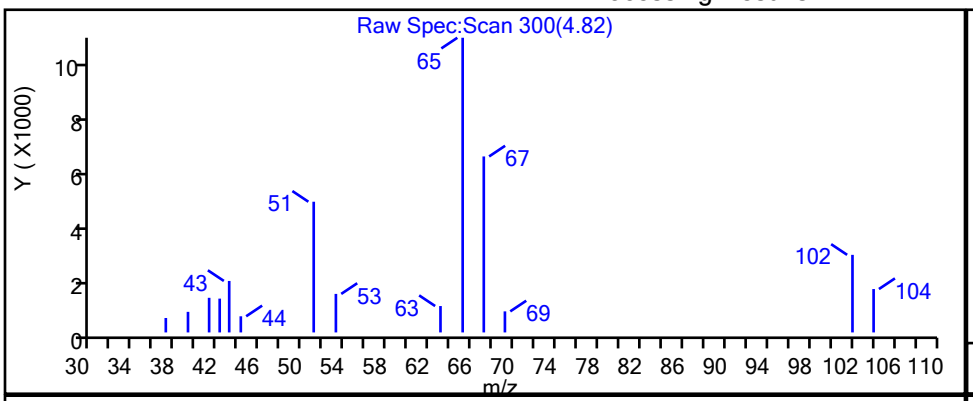
User Disabled Compound Report

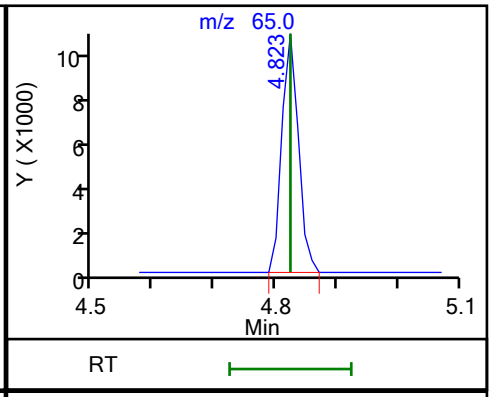
Eurofins TestAmerica, Canton

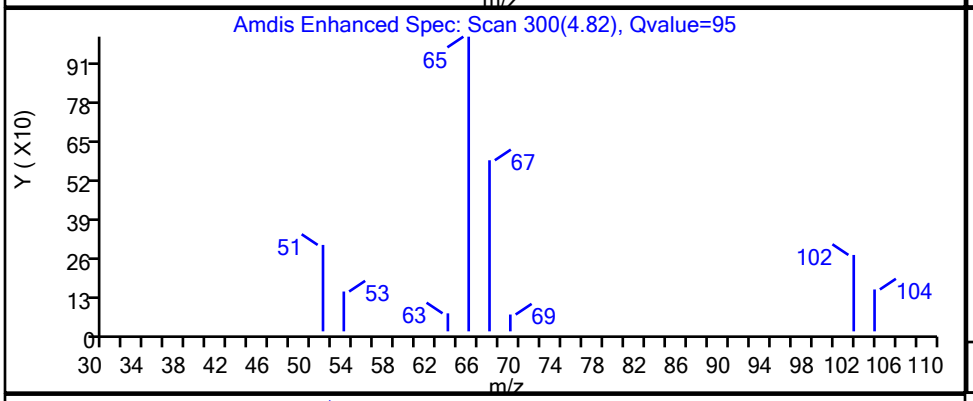
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279114.D
Injection Date: 16-Jul-2020 18:05:30 Instrument ID: A3UX12
Lims ID: std8260 L2
Client ID:
Operator ID: 001904 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

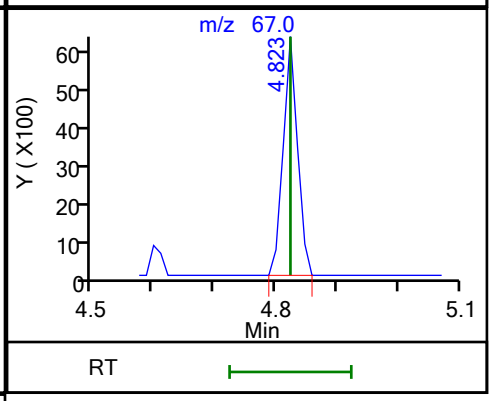
$ 5 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

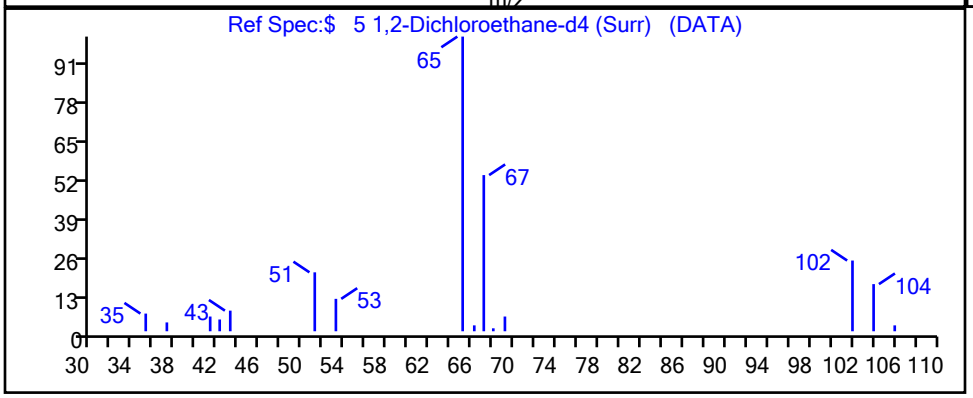
Processing Results











RT	Mass	Response	Amount
4.82	65.00	19971	1.142320
4.82	67.00	10329	

Reviewer: laveyt, 16-Jul-2020 20:29:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

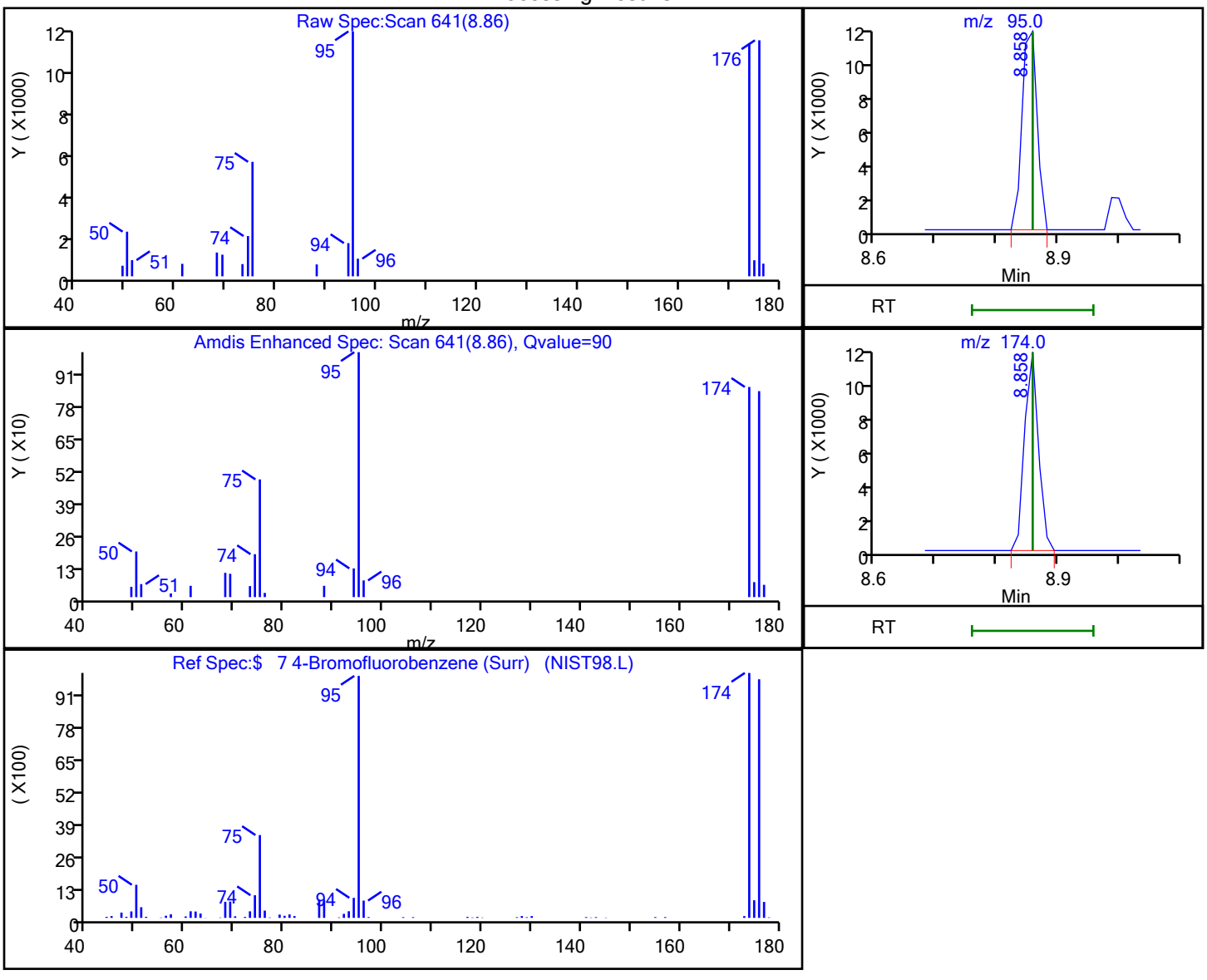
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279114.D
Injection Date: 16-Jul-2020 18:05:30 Instrument ID: A3UX12
Lims ID: std8260 L2
Client ID:
Operator ID: 001904 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Processing Results



RT	Mass	Response	Amount
8.86	95.00	20630	1.384413
8.86	174.00	17905	

Reviewer: laveyt, 16-Jul-2020 20:29:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

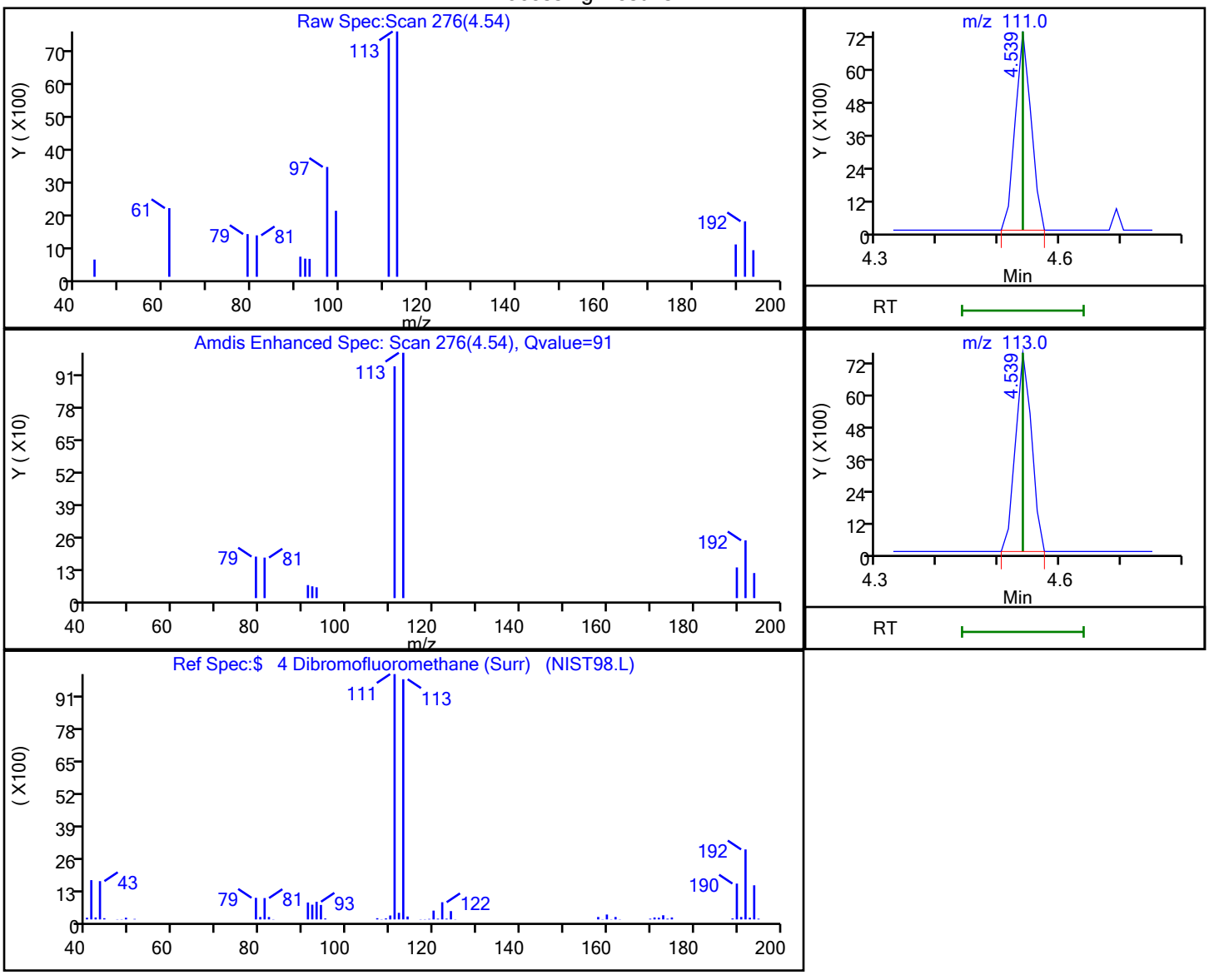
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279114.D
Injection Date: 16-Jul-2020 18:05:30 Instrument ID: A3UX12
Lims ID: std8260 L2
Client ID:
Operator ID: 001904 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 4 Dibromofluoromethane (Surr), CAS: 1868-53-7

Processing Results



RT	Mass	Response	Amount
4.54	111.00	13114	0.956018
4.54	113.00	13746	

Reviewer: laveyt, 16-Jul-2020 20:29:24
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

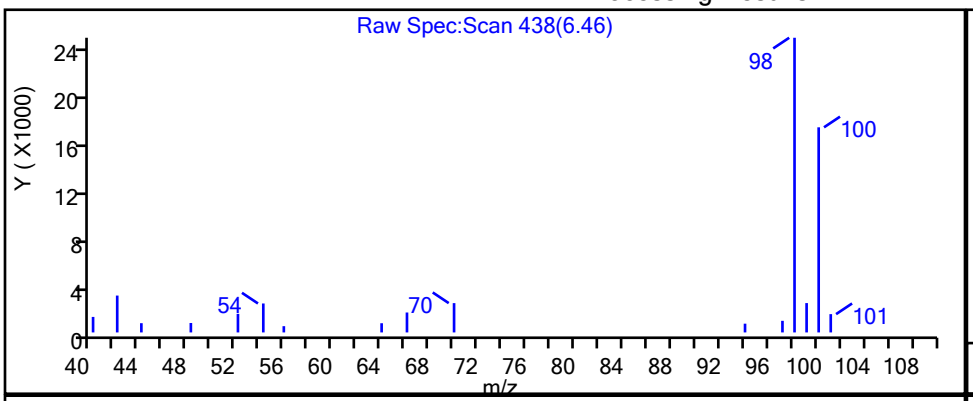
User Disabled Compound Report

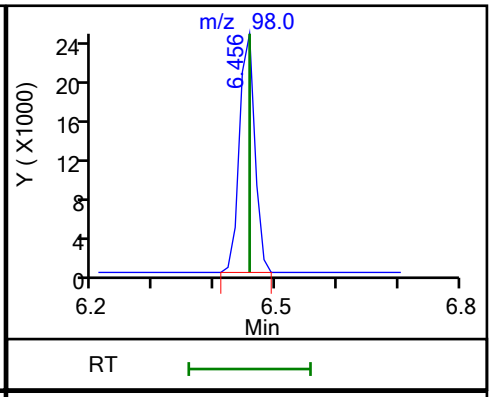
Eurofins TestAmerica, Canton

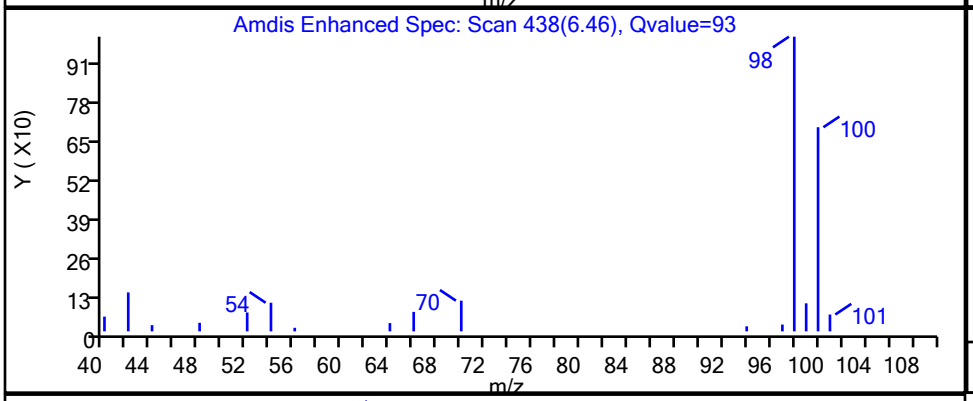
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279114.D
Injection Date: 16-Jul-2020 18:05:30 Instrument ID: A3UX12
Lims ID: std8260 L2
Client ID:
Operator ID: 001904 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

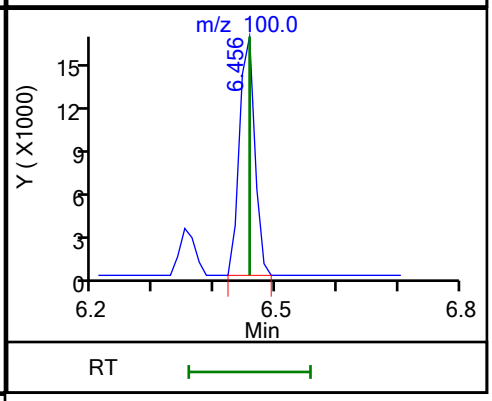
$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

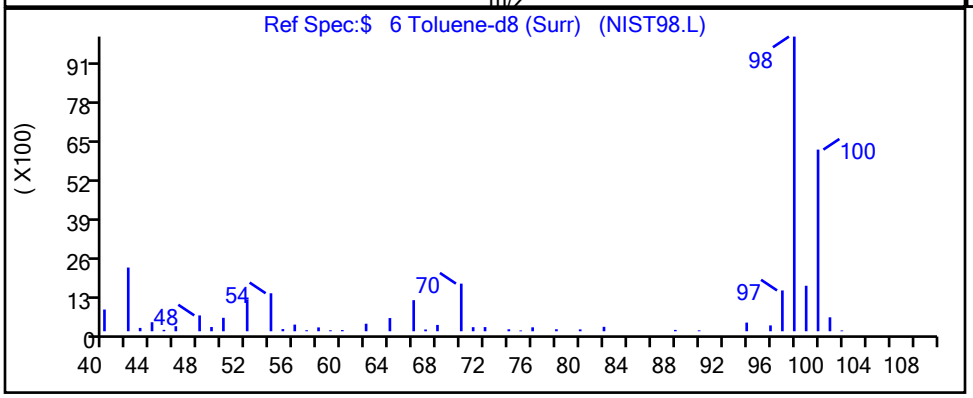
Processing Results











RT	Mass	Response	Amount
6.46	98.00	42331	1.049519
6.46	100.00	29407	

Reviewer: laveyt, 16-Jul-2020 20:29:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279115.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Jul-2020 18:27:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-011
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 21:23:54 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1057

First Level Reviewer: laveyt Date: 16-Jul-2020 18:51:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1066368	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.745	7.746	-0.001	87	745447	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	384863	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	68389	5.00	4.83	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	96	88950	5.00	5.13	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	254761	5.00	5.05	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	92	90585	5.00	5.25	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	95890	5.00	5.76	
10 Chloromethane	50	1.592	1.605	-0.013	98	180045	5.00	6.36	
11 Butadiene	54	1.652	1.652	0.000	89	124092	5.00	6.32	
12 Vinyl chloride	62	1.687	1.687	0.000	97	121481	5.00	6.09	
14 Bromomethane	94	1.936	1.936	0.000	91	72628	5.00	5.49	
15 Chloroethane	64	1.995	1.995	0.000	99	80121	5.00	5.52	
16 Dichlorofluoromethane	67	2.184	2.184	0.000	97	157289	5.00	5.19	
17 Trichlorofluoromethane	101	2.184	2.184	0.000	85	111171	5.00	4.76	
19 Ethyl ether	59	2.444	2.445	-0.001	93	82827	5.00	5.11	
20 Acrolein	56	2.563	2.563	0.000	97	41496	25.0	29.7	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	96	120487	5.00	5.62	
22 112TCTFE	101	2.669	2.670	-0.001	96	66947	5.00	5.32	
23 Acetone	43	2.693	2.693	0.000	100	81521	10.0	12.0	
24 Iodomethane	142	2.776	2.776	0.000	98	114665	5.00	5.26	
25 Carbon disulfide	76	2.823	2.823	0.000	99	245305	5.00	5.68	
27 3-Chloro-1-propene	41	2.953	2.954	-0.001	92	154691	5.00	6.43	
28 Methyl acetate	43	2.977	2.977	0.000	99	210795	10.0	12.9	
29 Methylene Chloride	49	3.060	3.060	0.000	97	118801	5.00	6.06	
30 2-Methyl-2-propanol	59	3.166	3.167	-0.001	99	125121	50.0	61.8	
31 Acrylonitrile	53	3.284	3.285	-0.001	100	504697	50.0	59.6	
32 trans-1,2-Dichloroethene	61	3.296	3.297	-0.001	66	122478	5.00	5.95	
33 Methyl tert-butyl ether	73	3.296	3.297	-0.001	96	256224	5.00	5.42	
34 Hexane	57	3.521	3.522	-0.001	91	128512	5.00	5.64	
35 1,1-Dichloroethane	63	3.651	3.652	-0.001	96	155829	5.00	5.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.699	3.699	0.000	97	212513	5.00	5.50	
41 cis-1,2-Dichloroethene	96	4.136	4.137	-0.001	83	90791	5.00	4.73	
40 2,2-Dichloropropane	77	4.136	4.137	-0.001	61	89862	5.00	4.78	
42 2-Butanone (MEK)	72	4.148	4.149	-0.001	100	32487	10.0	9.65	
46 Chlorobromomethane	49	4.338	4.338	0.000	95	81886	5.00	5.25	
47 Tetrahydrofuran	42	4.373	4.374	-0.001	90	95835	10.0	11.2	
48 Chloroform	83	4.409	4.409	0.000	94	135443	5.00	4.99	
49 1,1,1-Trichloroethane	97	4.562	4.551	0.011	98	105527	5.00	4.90	
50 Cyclohexane	84	4.598	4.598	0.000	92	127620	5.00	5.01	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	94	110916	5.00	5.06	
52 Carbon tetrachloride	117	4.693	4.693	0.000	77	83787	5.00	4.78	
53 Isobutyl alcohol	41	4.787	4.788	-0.001	95	124596	125.0	144.9	
54 Benzene	78	4.870	4.870	0.000	96	337044	5.00	5.15	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	96	105694	5.00	4.97	
57 n-Heptane	57	5.083	5.083	0.000	93	87098	5.00	5.28	
59 Trichloroethene	130	5.403	5.403	0.000	97	76118	5.00	5.14	
61 Methylcyclohexane	83	5.568	5.569	-0.001	89	135793	5.00	5.24	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	94	76423	5.00	5.41	
65 1,4-Dioxane	88	5.710	5.711	-0.001	27	15971	100.0	86.6	
64 Dibromomethane	174	5.710	5.711	-0.001	94	48536	5.00	4.84	
66 Dichlorobromomethane	83	5.829	5.829	0.000	98	85277	5.00	4.83	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	106727	10.0	10.0	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	109191	5.00	4.88	
70 4-Methyl-2-pentanone (MIBK)	43	6.349	6.350	-0.001	97	250773	10.0	10.8	
71 Toluene	91	6.515	6.515	0.000	98	302953	5.00	4.90	
72 trans-1,3-Dichloropropene	75	6.704	6.705	-0.001	94	96966	5.00	4.84	
74 Ethyl methacrylate	69	6.775	6.776	-0.001	90	104880	5.00	5.19	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	59524	5.00	4.91	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	68082	5.00	4.60	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	92	113574	5.00	5.00	
78 2-Hexanone	43	7.095	7.095	0.000	95	177166	10.0	10.9	
80 Chlorodibromomethane	129	7.225	7.225	0.000	91	55714	5.00	4.68	
81 Ethylene Dibromide	107	7.331	7.332	-0.001	99	60273	5.00	4.81	
83 Chlorobenzene	112	7.781	7.781	0.000	94	185806	5.00	5.14	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	60497	5.00	4.91	
85 Ethylbenzene	106	7.876	7.876	0.000	99	102746	5.00	5.17	
86 m-Xylene & p-Xylene	106	7.982	7.983	-0.001	98	128823	5.00	5.24	
87 o-Xylene	106	8.361	8.361	0.000	95	125874	5.00	4.97	
88 Styrene	104	8.373	8.373	0.000	95	201429	5.00	4.95	
89 Bromoform	173	8.550	8.551	-0.001	95	38309	5.00	4.67	
90 Isopropylbenzene	105	8.704	8.704	0.000	95	320834	5.00	5.05	
92 Bromobenzene	156	9.000	9.000	0.000	94	76292	5.00	5.07	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	83	98841	5.00	5.14	
94 1,2,3-Trichloropropane	110	9.035	9.036	-0.001	86	33941	5.00	5.11	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.048	-0.001	87	30147	5.00	5.35	
96 N-Propylbenzene	120	9.094	9.095	-0.001	99	86386	5.00	5.28	
97 2-Chlorotoluene	126	9.189	9.178	0.011	96	73516	5.00	5.09	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	95	250416	5.00	5.19	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	74622	5.00	5.03	
102 tert-Butylbenzene	119	9.580	9.580	0.000	93	207081	5.00	4.90	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	255743	5.00	5.05	
105 sec-Butylbenzene	105	9.793	9.793	0.000	94	304124	5.00	4.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	99	143474	5.00	5.03	
107 4-Isopropyltoluene	119	9.935	9.947	-0.012	97	262116	5.00	5.14	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	144861	5.00	4.90	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	218725	5.00	5.12	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	97	143813	5.00	5.08	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	82	22950	5.00	5.11	
115 1,2,4-Trichlorobenzene	180	11.946	11.947	-0.001	94	77534	5.00	4.97	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	27773	5.00	4.65	
117 Naphthalene	128	12.195	12.195	0.000	97	270015	5.00	5.22	
118 1,2,3-Trichlorobenzene	180	12.431	12.432	-0.001	94	74152	5.00	5.16	
S 124 Trihalomethanes, Total	1				0		20.0	19.2	
S 125 Total BTEX	1				0		25.0	25.4	
S 126 1,2-Dichloroethene, Total	96				0			10.7	
S 127 1,3-Dichloropropene, Total	75				0			9.72	
S 128 Xylenes, Total	106				0		10.0	10.2	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL
VMRGAS_00347	Amount Added:	4.00	Units: uL
vmarolistdw_00352	Amount Added:	4.00	Units: uL
vmrprimw_00394	Amount Added:	4.00	Units: uL
vm50ss_00410	Amount Added:	4.00	Units: uL

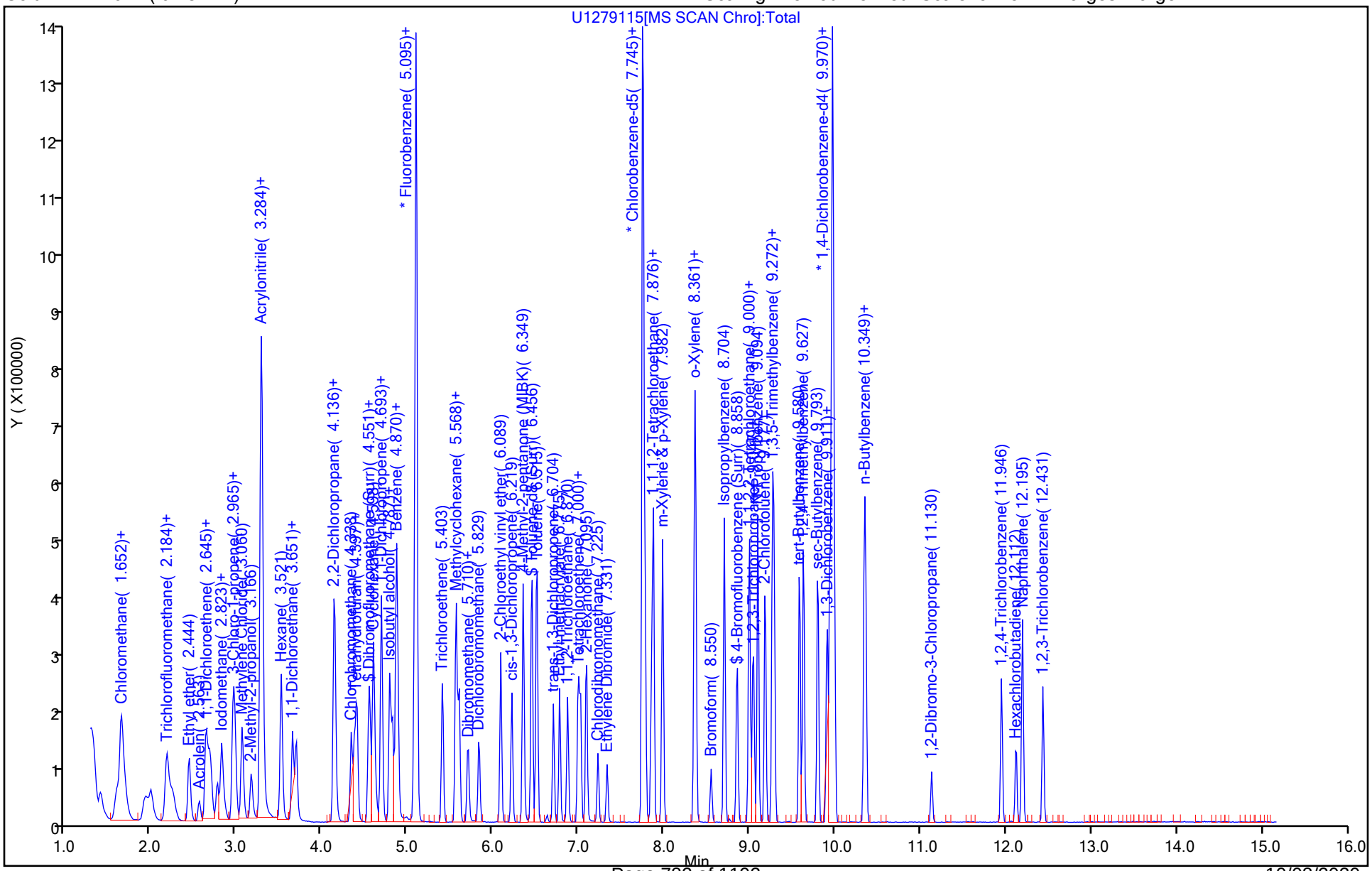
Report Date: 16-Jul-2020 21:23:57 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279115.D

Injection Date:	16-Jul-2020 18:27:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L3			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279116.D
Lims ID: std8260 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 16-Jul-2020 18:50:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-012
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 21:24:04 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1057

First Level Reviewer: laveyt Date: 16-Jul-2020 19:13:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	98	886512	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	632834	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	393985	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	117634	10.0	10.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.811	4.811	0.000	97	143083	10.0	9.94	
$ 6 Toluene-d8 (Surr)	98	6.444	6.444	0.000	93	458994	10.0	10.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.846	8.846	0.000	94	138527	10.0	9.45	
9 Dichlorodifluoromethane	85	1.392	1.392	0.000	99	151666	10.0	11.0	
10 Chloromethane	50	1.581	1.581	0.000	98	233672	10.0	9.93	M
11 Butadiene	54	1.628	1.628	0.000	91	159384	10.0	9.77	
12 Vinyl chloride	62	1.664	1.664	0.000	97	171618	10.0	10.3	
14 Bromomethane	94	1.912	1.912	0.000	91	127041	10.0	11.6	
15 Chloroethane	64	1.983	1.983	0.000	100	136173	10.0	11.3	
16 Dichlorofluoromethane	67	2.161	2.161	0.000	97	288627	10.0	11.4	
17 Trichlorofluoromethane	101	2.173	2.173	0.000	84	210999	10.0	10.9	
19 Ethyl ether	59	2.433	2.433	0.000	92	157156	10.0	11.7	
20 Acrolein	56	2.551	2.551	0.000	99	56998	50.0	49.1	
21 1,1-Dichloroethene	61	2.622	2.622	0.000	98	183544	10.0	10.3	
22 112TCTFE	101	2.658	2.658	0.000	94	105296	10.0	10.1	
23 Acetone	43	2.681	2.681	0.000	100	119029	20.0	21.1	
24 Iodomethane	142	2.764	2.764	0.000	98	207558	10.0	11.4	
25 Carbon disulfide	76	2.812	2.812	0.000	100	378954	10.0	10.6	
27 3-Chloro-1-propene	41	2.942	2.942	0.000	89	205590	10.0	10.3	
28 Methyl acetate	43	2.965	2.965	0.000	97	286458	20.0	21.1	
29 Methylene Chloride	49	3.048	3.048	0.000	94	176439	10.0	10.8	
30 2-Methyl-2-propanol	59	3.166	3.166	0.000	99	191199	100.0	113.6	
31 Acrylonitrile	53	3.273	3.273	0.000	99	723158	100.0	102.7	
32 trans-1,2-Dichloroethene	61	3.285	3.285	0.000	66	186220	10.0	10.9	
33 Methyl tert-butyl ether	73	3.285	3.285	0.000	96	418565	10.0	10.7	
34 Hexane	57	3.510	3.510	0.000	91	169215	10.0	8.93	
35 1,1-Dichloroethane	63	3.640	3.640	0.000	96	236866	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.687	0.000	97	302914	10.0	9.43	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	82	172589	10.0	10.8	
40 2,2-Dichloropropane	77	4.137	4.125	0.012	63	171711	10.0	11.0	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	99	60927	20.0	21.8	
46 Chlorobromomethane	49	4.338	4.338	0.000	97	153287	10.0	11.8	
47 Tetrahydrofuran	42	4.373	4.373	0.000	86	149777	20.0	21.0	
48 Chloroform	83	4.397	4.397	0.000	94	248247	10.0	11.0	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	176862	10.0	9.88	
50 Cyclohexane	84	4.598	4.598	0.000	90	192287	10.0	9.08	
52 Carbon tetrachloride	117	4.693	4.693	0.000	82	141890	10.0	9.74	
51 1,1-Dichloropropene	75	4.681	4.681	0.000	93	168265	10.0	9.24	
53 Isobutyl alcohol	41	4.788	4.788	0.000	94	172245	250.0	240.9	
54 Benzene	78	4.859	4.859	0.000	96	525396	10.0	9.65	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	175519	10.0	9.93	
57 n-Heptane	57	5.072	5.072	0.000	89	95900	10.0	8.11	
59 Trichloroethene	130	5.403	5.403	0.000	98	125955	10.0	10.2	
61 Methylcyclohexane	83	5.557	5.557	0.000	90	197666	10.0	9.18	
62 1,2-Dichloropropane	63	5.592	5.592	0.000	93	115005	10.0	9.79	
64 Dibromomethane	174	5.711	5.711	0.000	91	93337	10.0	11.2	
65 1,4-Dioxane	88	5.711	5.711	0.000	92	38163	200.0	248.9	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	167964	10.0	11.4	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	205324	20.0	23.2	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	208362	10.0	11.2	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	96	475232	20.0	24.7	
71 Toluene	91	6.503	6.503	0.000	99	609655	10.0	11.6	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	95	161548	10.0	9.50	
74 Ethyl methacrylate	69	6.776	6.776	0.000	88	161989	10.0	9.44	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	97580	10.0	9.49	
76 Tetrachloroethene	166	6.989	6.989	0.000	96	118877	10.0	9.46	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	180029	10.0	9.33	
78 2-Hexanone	43	7.083	7.083	0.000	97	255826	20.0	18.6	
80 Chlorodibromomethane	129	7.225	7.225	0.000	90	98356	10.0	9.73	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	102871	10.0	9.68	
83 Chlorobenzene	112	7.781	7.781	0.000	95	298670	10.0	9.73	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	94	108087	10.0	10.3	
85 Ethylbenzene	106	7.876	7.876	0.000	99	163196	10.0	9.68	
86 m-Xylene & p-Xylene	106	7.982	7.982	0.000	99	206929	10.0	9.91	
87 o-Xylene	106	8.361	8.361	0.000	96	210472	10.0	9.79	
88 Styrene	104	8.373	8.373	0.000	95	333048	10.0	9.65	
89 Bromoform	173	8.550	8.550	0.000	96	70911	10.0	10.2	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	522254	10.0	9.69	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	86	164980	10.0	8.38	
92 Bromobenzene	156	9.000	9.000	0.000	91	133920	10.0	8.70	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	88	58331	10.0	8.58	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.047	0.000	90	45074	10.0	7.82	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	141874	10.0	8.47	
97 2-Chlorotoluene	126	9.178	9.178	0.000	96	123687	10.0	8.36	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	476426	10.0	9.64	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	142976	10.0	9.42	
102 tert-Butylbenzene	119	9.580	9.580	0.000	93	410479	10.0	9.49	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	95	521486	10.0	10.0	
105 sec-Butylbenzene	105	9.793	9.793	0.000	94	583446	10.0	9.30	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	289123	10.0	9.89	
107 4-Isopropyltoluene	119	9.935	9.935	0.000	97	492942	10.0	9.45	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	289977	10.0	9.58	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	408355	10.0	9.34	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	282319	10.0	9.73	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	85	41982	10.0	9.12	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	94	139512	10.0	8.73	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	49088	10.0	8.03	
117 Naphthalene	128	12.195	12.195	0.000	97	470264	10.0	8.89	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	96	131236	10.0	8.92	
S 124 Trihalomethanes, Total	1				0		40.0	42.4	
S 125 Total BTEX	1				0		50.0	50.6	
S 126 1,2-Dichloroethene, Total	96				0			21.7	
S 127 1,3-Dichloropropene, Total	75				0			20.7	
S 128 Xylenes, Total	106				0		20.0	19.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL
VMRGAS_00347	Amount Added:	8.00	Units: uL
vmarolistdw_00352	Amount Added:	8.00	Units: uL
vmrprimw_00394	Amount Added:	8.00	Units: uL
vm50ss_00410	Amount Added:	8.00	Units: uL

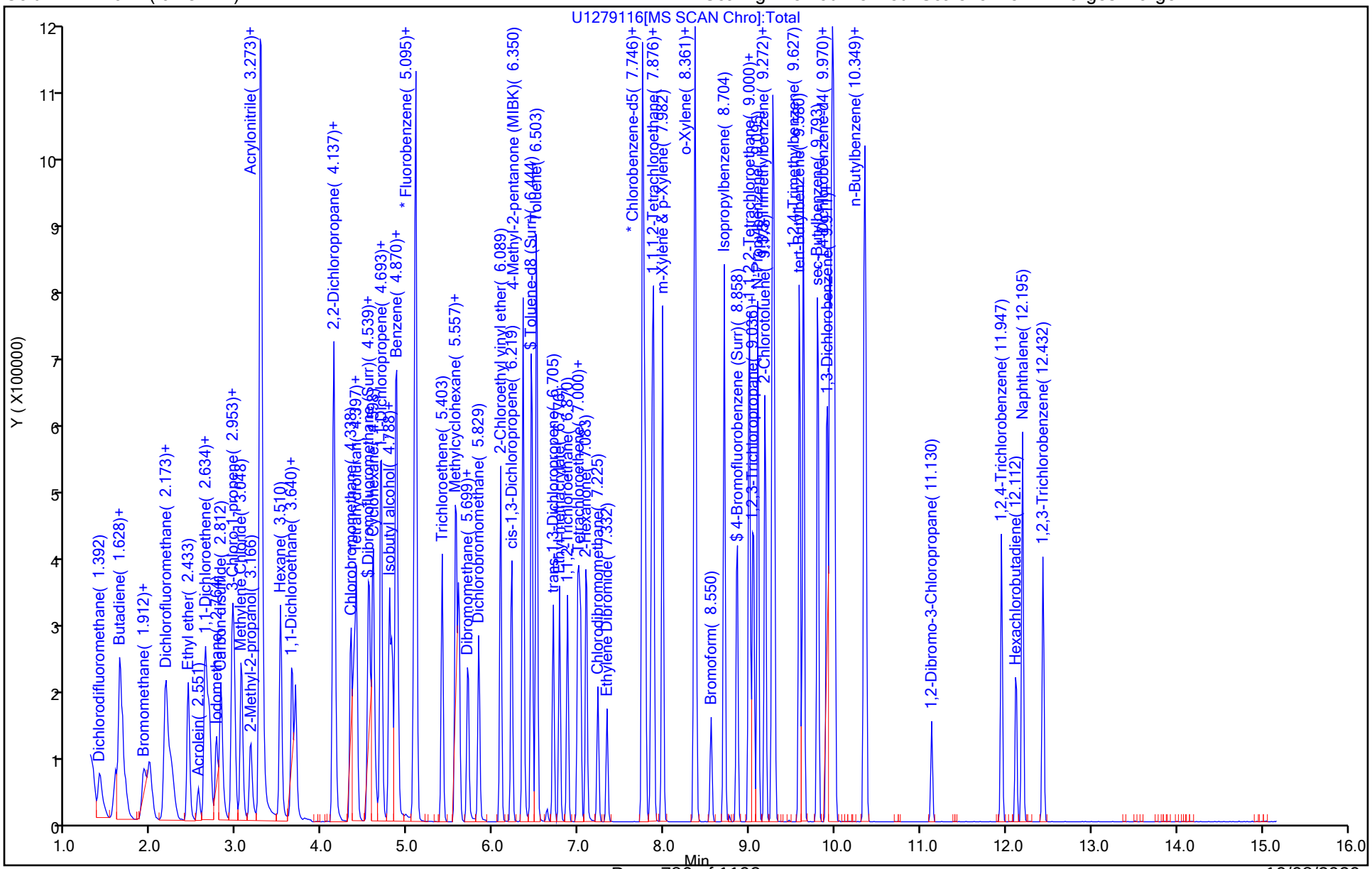
Report Date: 16-Jul-2020 21:24:07 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279116.D

Injection Date:	16-Jul-2020 18:50:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L4			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

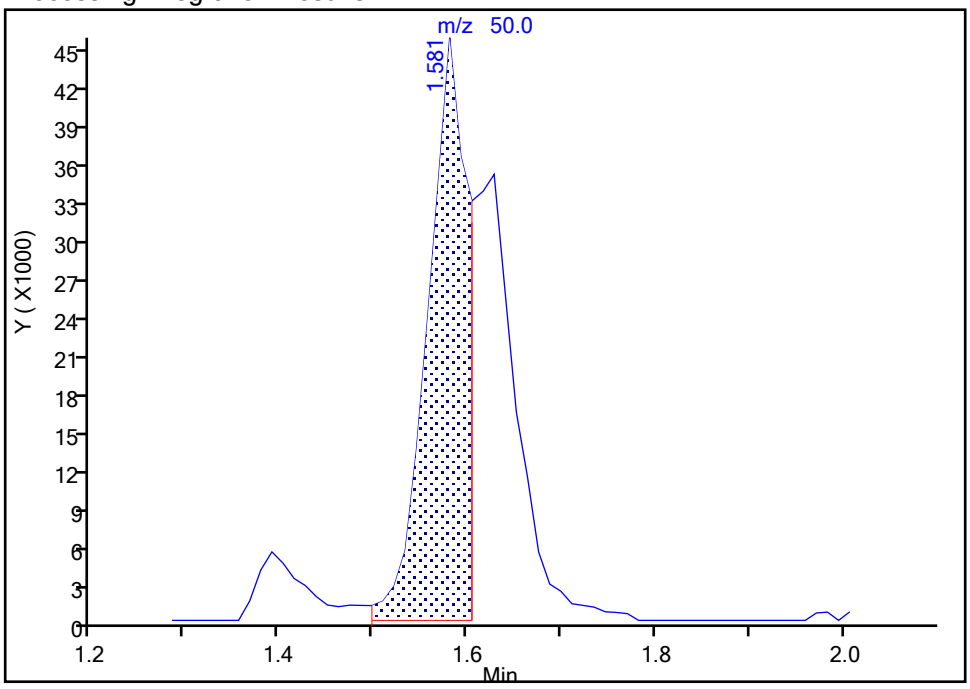
Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279116.D
Injection Date: 16-Jul-2020 18:50:30 Instrument ID: A3UX12
Lims ID: std8260 L4
Client ID:
Operator ID: 001904 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

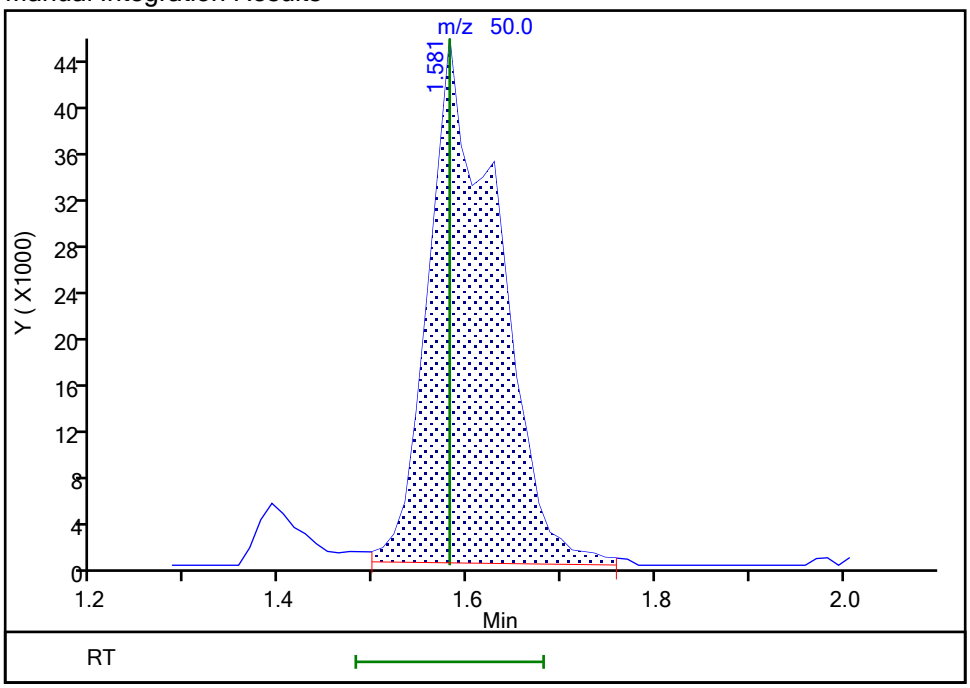
Processing Integration Results

RT: 1.58
Area: 139411
Amount: 6.632730
Amount Units: ug/l



Manual Integration Results

RT: 1.58
Area: 233672
Amount: 9.926891
Amount Units: ug/l



Reviewer: laveyt, 16-Jul-2020 19:12:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279117.D
Lims ID: ICIS L5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 16-Jul-2020 19:12:30 ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-013
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 21:24:13 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1057

First Level Reviewer: laveyt Date: 16-Jul-2020 19:32:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	930091	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	747849	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	92	400649	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	289228	20.0	23.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	96	345986	20.0	22.9	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	858996	20.0	17.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	95	344224	20.0	19.9	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	325891	20.0	22.4	
10 Chloromethane	50	1.605	1.605	0.000	99	562073	20.0	22.8	
11 Butadiene	54	1.652	1.652	0.000	90	390394	20.0	22.8	
12 Vinyl chloride	62	1.687	1.687	0.000	98	406302	20.0	23.3	
14 Bromomethane	94	1.936	1.936	0.000	91	265909	20.0	23.0	
15 Chloroethane	64	1.995	1.995	0.000	100	285493	20.0	22.5	
16 Dichlorofluoromethane	67	2.184	2.184	0.000	97	626381	20.0	23.7	
17 Trichlorofluoromethane	101	2.184	2.184	0.000	98	455578	20.0	22.4	
19 Ethyl ether	59	2.445	2.445	0.000	92	309400	20.0	21.9	
20 Acrolein	56	2.563	2.563	0.000	98	118799	100.0	97.6	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	97	390469	20.0	20.9	
22 112TCTFE	101	2.670	2.670	0.000	94	233909	20.0	21.3	
23 Acetone	43	2.693	2.693	0.000	100	224375	40.0	37.9	
24 Iodomethane	142	2.776	2.776	0.000	98	421954	20.0	22.2	
25 Carbon disulfide	76	2.823	2.823	0.000	100	789675	20.0	21.0	
27 3-Chloro-1-propene	41	2.954	2.954	0.000	90	431804	20.0	20.6	
28 Methyl acetate	43	2.977	2.977	0.000	97	577598	40.0	40.5	
29 Methylene Chloride	49	3.060	3.060	0.000	94	354472	20.0	20.7	
30 2-Methyl-2-propanol	59	3.167	3.167	0.000	99	349742	200.0	198.0	
31 Acrylonitrile	53	3.285	3.285	0.000	99	1450393	200.0	196.3	
32 trans-1,2-Dichloroethene	61	3.297	3.297	0.000	66	381398	20.0	21.3	
33 Methyl tert-butyl ether	73	3.297	3.297	0.000	95	848635	20.0	20.6	
34 Hexane	57	3.522	3.522	0.000	92	367216	20.0	18.5	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	494235	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.699	3.699	0.000	97	615701	20.0	18.3	
40 2,2-Dichloropropane	77	4.137	4.137	0.000	62	363126	20.0	22.1	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	83	358669	20.0	21.4	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	100	122791	40.0	41.8	
46 Chlorobromomethane	49	4.338	4.338	0.000	97	316652	20.0	23.3	
47 Tetrahydrofuran	42	4.374	4.374	0.000	88	347004	40.0	46.3	
48 Chloroform	83	4.409	4.409	0.000	94	555952	20.0	23.5	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	98	439960	20.0	23.4	
50 Cyclohexane	84	4.598	4.598	0.000	91	486792	20.0	21.9	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	94	453544	20.0	23.7	
52 Carbon tetrachloride	117	4.693	4.693	0.000	79	360797	20.0	23.6	
53 Isobutyl alcohol	41	4.788	4.788	0.000	97	405480	500.0	540.5	
54 Benzene	78	4.870	4.870	0.000	96	1321740	20.0	23.1	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	418240	20.0	22.5	
57 n-Heptane	57	5.072	5.083	-0.011	90	175083	20.0	16.7	
59 Trichloroethene	130	5.403	5.403	0.000	96	269336	20.0	20.9	
61 Methylcyclohexane	83	5.569	5.569	0.000	89	426646	20.0	18.9	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	92	239320	20.0	19.4	
65 1,4-Dioxane	88	5.711	5.711	0.000	93	59715	400.0	371.3	
64 Dibromomethane	174	5.711	5.711	0.000	93	176342	20.0	20.1	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	300932	20.0	19.5	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	343008	40.0	36.9	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	367344	20.0	18.8	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	96	731356	40.0	36.2	
71 Toluene	91	6.515	6.515	0.000	99	1007024	20.0	16.2	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	95	332918	20.0	16.6	
74 Ethyl methacrylate	69	6.776	6.776	0.000	89	345274	20.0	17.0	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	233957	20.0	19.3	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	273224	20.0	18.4	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	457272	20.0	20.1	
78 2-Hexanone	43	7.095	7.095	0.000	96	708445	40.0	43.6	
80 Chlorodibromomethane	129	7.225	7.225	0.000	91	229325	20.0	19.2	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	244506	20.0	19.5	
83 Chlorobenzene	112	7.781	7.781	0.000	94	715039	20.0	19.7	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	94	247781	20.0	20.0	
85 Ethylbenzene	106	7.876	7.876	0.000	99	403913	20.0	20.3	
86 m-Xylene & p-Xylene	106	7.983	7.983	0.000	99	505494	20.0	20.5	
87 o-Xylene	106	8.361	8.361	0.000	97	502115	20.0	19.8	
88 Styrene	104	8.373	8.373	0.000	96	819248	20.0	20.1	
89 Bromoform	173	8.551	8.551	0.000	97	164608	20.0	20.0	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	1271237	20.0	20.0	
92 Bromobenzene	156	9.000	9.000	0.000	94	292641	20.0	18.7	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	85	394582	20.0	19.7	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	86	134177	20.0	19.4	
95 trans-1,4-Dichloro-2-butene	53	9.048	9.048	0.000	91	121536	20.0	20.7	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	335308	20.0	19.7	
97 2-Chlorotoluene	126	9.178	9.178	0.000	96	288795	20.0	19.2	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	999122	20.0	19.9	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	288403	20.0	18.7	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	832037	20.0	18.9	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	1004174	20.0	19.0	
105 sec-Butylbenzene	105	9.793	9.793	0.000	95	1203086	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	554995	20.0	18.7	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	1033800	20.0	19.5	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	94	569022	20.0	18.5	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	888801	20.0	20.0	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	572071	20.0	19.4	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	86	85539	20.0	18.3	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	94	280319	20.0	17.3	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	104077	20.0	16.7	
117 Naphthalene	128	12.195	12.195	0.000	97	959515	20.0	17.8	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	94	260445	20.0	17.4	
S 124 Trihalomethanes, Total	1				0		80.0	82.2	
S 125 Total BTEX	1				0		100.0	99.9	
S 128 Xylenes, Total	106				0		40.0	40.3	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL
VMRGAS_00347	Amount Added:	16.00	Units: uL
vmarolistdw_00352	Amount Added:	16.00	Units: uL
vmrprimw_00394	Amount Added:	16.00	Units: uL
vm50ss_00410	Amount Added:	16.00	Units: uL

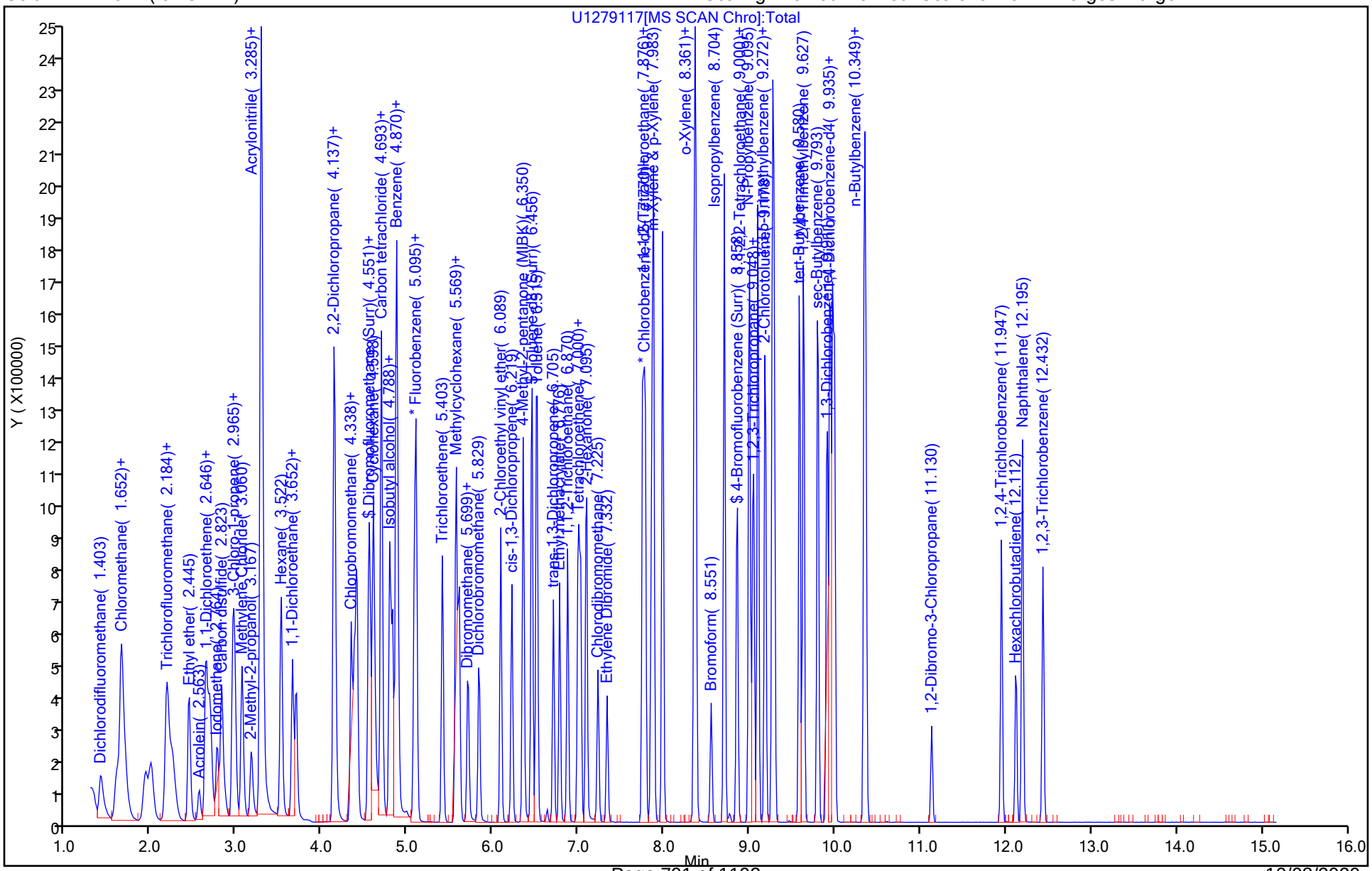
Report Date: 16-Jul-2020 21:24:17 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279117.D

Injection Date:	16-Jul-2020 19:12:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	ICIS L5			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279118.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 16-Jul-2020 19:35:30 ALS Bottle#: 10 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-014
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 21:24:23 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1057

First Level Reviewer: laveyt Date: 16-Jul-2020 20:24:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1105939	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	819483	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	94	386745	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	594419	40.0	40.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	96	729798	40.0	40.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1808749	40.0	32.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	94	712692	40.0	37.6	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	692065	40.0	40.1	
10 Chloromethane	50	1.593	1.605	-0.012	99	1048531	40.0	35.7	
11 Butadiene	54	1.652	1.652	0.000	89	740602	40.0	36.4	
12 Vinyl chloride	62	1.687	1.687	0.000	98	763156	40.0	36.9	
14 Bromomethane	94	1.936	1.936	0.000	91	502951	40.0	36.7	
15 Chloroethane	64	1.995	1.995	0.000	99	555402	40.0	36.9	
16 Dichlorofluoromethane	67	2.173	2.184	-0.011	97	1157160	40.0	36.8	
17 Trichlorofluoromethane	101	2.184	2.184	0.000	98	908548	40.0	37.5	
19 Ethyl ether	59	2.433	2.445	-0.012	92	663810	40.0	39.5	
20 Acrolein	56	2.551	2.563	-0.012	99	265086	200.0	183.2	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	97	829316	40.0	37.3	
22 112TCTFE	101	2.670	2.670	0.000	94	518516	40.0	39.7	
23 Acetone	43	2.693	2.693	0.000	100	503096	80.0	71.5	
24 Iodomethane	142	2.764	2.776	-0.012	98	864362	40.0	38.2	
25 Carbon disulfide	76	2.823	2.823	0.000	99	1654881	40.0	37.0	
27 3-Chloro-1-propene	41	2.954	2.954	0.000	89	902635	40.0	36.2	
28 Methyl acetate	43	2.977	2.977	0.000	97	1278569	80.0	75.4	
29 Methylene Chloride	49	3.060	3.060	0.000	92	737052	40.0	36.3	
30 2-Methyl-2-propanol	59	3.178	3.167	0.011	99	844343	400.0	402.0	
31 Acrylonitrile	53	3.285	3.285	0.000	98	3202437	400.0	364.6	
32 trans-1,2-Dichloroethene	61	3.285	3.297	-0.012	99	806228	40.0	37.8	
33 Methyl tert-butyl ether	73	3.297	3.297	0.000	96	1825802	40.0	37.3	
34 Hexane	57	3.521	3.522	-0.001	91	877095	40.0	37.1	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	1020403	40.0	35.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.699	-0.012	97	1471981	40.0	36.7	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	83	743747	40.0	37.4	
40 2,2-Dichloropropane	77	4.137	4.137	0.000	60	734903	40.0	37.7	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	100	283584	80.0	81.2	
46 Chlorobromomethane	49	4.338	4.338	0.000	97	650336	40.0	40.2	
47 Tetrahydrofuran	42	4.373	4.374	-0.001	87	730197	80.0	82.0	
48 Chloroform	83	4.409	4.409	0.000	94	1111892	40.0	39.5	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	944576	40.0	42.3	
50 Cyclohexane	84	4.598	4.598	0.000	91	1121049	40.0	42.4	
52 Carbon tetrachloride	117	4.693	4.693	0.000	77	782108	40.0	43.0	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	95	995105	40.0	43.8	
53 Isobutyl alcohol	41	4.788	4.788	0.000	95	989777	1000.0	1109.6	
54 Benzene	78	4.870	4.870	0.000	96	2810699	40.0	41.4	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	914197	40.0	41.4	
57 n-Heptane	57	5.072	5.083	-0.011	93	470133	40.0	42.0	
59 Trichloroethene	130	5.403	5.403	0.000	97	580360	40.0	37.8	
61 Methylcyclohexane	83	5.569	5.569	0.000	87	988563	40.0	36.8	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	92	529883	40.0	36.1	
64 Dibromomethane	174	5.711	5.711	0.000	94	382258	40.0	36.7	
65 1,4-Dioxane	88	5.711	5.711	0.000	96	136471	800.0	713.6	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	682191	40.0	37.2	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	788544	80.0	71.4	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	856087	40.0	36.9	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	96	1639242	80.0	68.3	
71 Toluene	91	6.515	6.515	0.000	99	2206110	40.0	32.4	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	95	762783	40.0	34.6	
74 Ethyl methacrylate	69	6.776	6.776	0.000	89	787358	40.0	35.4	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	449059	40.0	33.7	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	564371	40.0	34.7	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	828517	40.0	33.2	
78 2-Hexanone	43	7.095	7.095	0.000	94	1134947	80.0	63.7	
80 Chlorodibromomethane	129	7.225	7.225	0.000	91	540110	40.0	41.3	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	572080	40.0	41.6	
83 Chlorobenzene	112	7.781	7.781	0.000	95	1635971	40.0	41.2	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	94	565680	40.0	41.7	
85 Ethylbenzene	106	7.876	7.876	0.000	99	887653	40.0	40.7	
86 m-Xylene & p-Xylene	106	7.982	7.983	-0.001	99	1150536	40.0	42.6	
87 o-Xylene	106	8.361	8.361	0.000	97	1085881	40.0	39.0	
88 Styrene	104	8.373	8.373	0.000	96	1807037	40.0	40.4	
89 Bromoform	173	8.550	8.551	-0.001	97	363030	40.0	40.2	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	2727885	40.0	39.1	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	84	843951	40.0	43.6	
92 Bromobenzene	156	9.000	9.000	0.000	94	625073	40.0	41.4	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	85	277742	40.0	41.6	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.048	-0.001	94	268293	40.0	47.4	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	722462	40.0	43.9	
97 2-Chlorotoluene	126	9.189	9.178	0.011	97	610825	40.0	42.1	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	2114062	40.0	43.6	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	615770	40.0	41.3	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	1833625	40.0	43.2	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	2152543	40.0	42.3	
105 sec-Butylbenzene	105	9.793	9.793	0.000	95	2628984	40.0	42.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	1164577	40.0	40.6	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	2242296	40.0	43.8	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	1187495	40.0	40.0	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	1902978	40.0	44.3	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	97	1152915	40.0	40.5	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	85	206406	40.0	45.7	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	94	673976	40.0	43.0	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	244373	40.0	40.7	
117 Naphthalene	128	12.195	12.195	0.000	97	2378356	40.0	45.8	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	95	619750	40.0	42.9	
S 124 Trihalomethanes, Total	1				0		160.0	158.3	
S 125 Total BTEX	1				0		200.0	196.1	
S 126 1,2-Dichloroethene, Total	96				0			75.2	
S 127 1,3-Dichloropropene, Total	75				0			71.5	
S 128 Xylenes, Total	106				0		80.0	81.6	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL
VMRGAS_00347	Amount Added:	32.00	Units: uL
vmarolistdw_00352	Amount Added:	32.00	Units: uL
vmrprimw_00394	Amount Added:	32.00	Units: uL
vm50ss_00410	Amount Added:	32.00	Units: uL

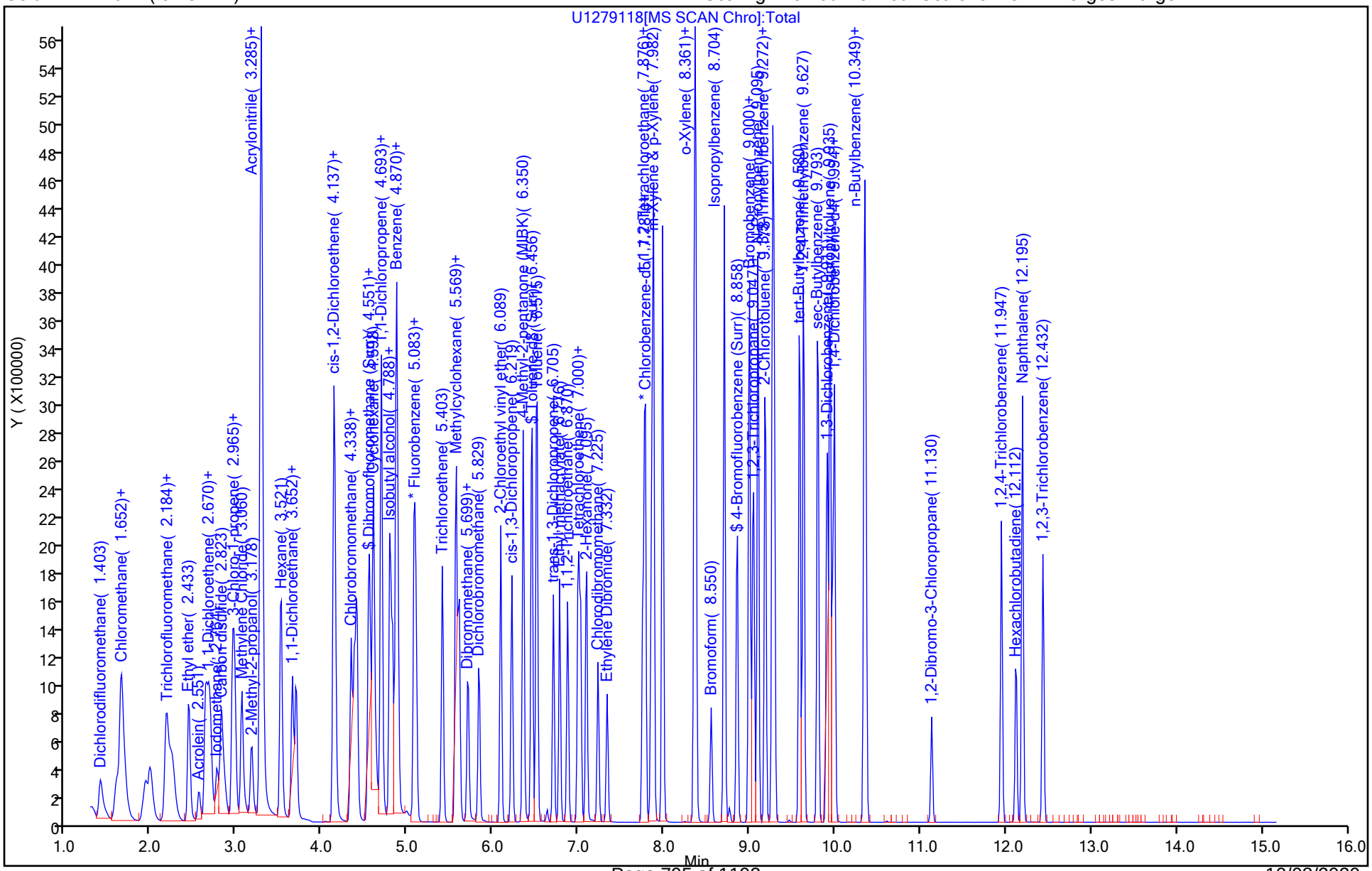
Report Date: 16-Jul-2020 21:24:27 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279118.D

Injection Date:	16-Jul-2020 19:35:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L6			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279119.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 16-Jul-2020 19:57:30 ALS Bottle#: 11 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-015
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 21:24:33 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1057

First Level Reviewer: laveyt Date: 16-Jul-2020 20:26:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	975916	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	701214	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	94	404097	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	770621	60.0	59.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	96	927672	60.0	58.5	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	3239682	60.0	68.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	96	963194	60.0	59.3	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	952192	60.0	62.5	
10 Chloromethane	50	1.605	1.605	0.000	98	1437896	60.0	55.5	
11 Butadiene	54	1.640	1.652	-0.012	87	988134	60.0	55.0	
12 Vinyl chloride	62	1.687	1.687	0.000	98	1049031	60.0	57.4	
14 Bromomethane	94	1.936	1.936	0.000	91	779653	60.0	64.4	
15 Chloroethane	64	1.995	1.995	0.000	100	898507	60.0	67.6	
16 Dichlorofluoromethane	67	2.173	2.184	-0.011	97	1769403	60.0	63.8	
17 Trichlorofluoromethane	101	2.184	2.184	0.000	98	1377516	60.0	64.5	
19 Ethyl ether	59	2.445	2.445	0.000	91	908584	60.0	61.3	
20 Acrolein	56	2.551	2.563	-0.012	99	397800	300.0	311.5	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	96	1279374	60.0	65.2	
22 112TCTFE	101	2.670	2.670	0.000	95	807578	60.0	70.1	
23 Acetone	43	2.693	2.693	0.000	100	661546	120.0	106.5	
24 Iodomethane	142	2.764	2.776	-0.012	98	1310816	60.0	65.7	
25 Carbon disulfide	76	2.823	2.823	0.000	99	2555816	60.0	64.7	
27 3-Chloro-1-propene	41	2.954	2.954	0.000	89	1389182	60.0	63.1	
28 Methyl acetate	43	2.977	2.977	0.000	97	1839288	120.0	123.0	
29 Methylene Chloride	49	3.060	3.060	0.000	93	1116320	60.0	62.3	
30 2-Methyl-2-propanol	59	3.178	3.167	0.011	99	1032059	600.0	556.8	
31 Acrylonitrile	53	3.273	3.285	-0.012	99	5396310	600.0	696.2	
32 trans-1,2-Dichloroethene	61	3.285	3.297	-0.012	99	1472482	60.0	78.2	
33 Methyl tert-butyl ether	73	3.297	3.297	0.000	96	3196991	60.0	73.9	
34 Hexane	57	3.510	3.522	-0.012	92	1578677	60.0	75.7	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	1798158	60.0	71.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.699	3.699	0.000	97	2596721	60.0	73.4	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	83	1130637	60.0	64.4	
40 2,2-Dichloropropane	77	4.137	4.137	0.000	60	1140347	60.0	66.3	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	100	421345	120.0	136.8	
46 Chlorobromomethane	49	4.338	4.338	0.000	97	802370	60.0	56.2	
47 Tetrahydrofuran	42	4.373	4.374	-0.001	86	833693	120.0	106.0	
48 Chloroform	83	4.409	4.409	0.000	94	1462582	60.0	58.9	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	1231118	60.0	62.5	
50 Cyclohexane	84	4.598	4.598	0.000	90	1431075	60.0	61.4	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	94	1215722	60.0	60.6	
52 Carbon tetrachloride	117	4.693	4.693	0.000	80	1029542	60.0	64.2	
53 Isobutyl alcohol	41	4.788	4.788	0.000	94	1065136	1500.0	1353.1	
54 Benzene	78	4.870	4.870	0.000	96	3469151	60.0	57.9	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	1156634	60.0	59.4	
57 n-Heptane	57	5.072	5.083	-0.011	92	552977	60.0	57.1	
59 Trichloroethene	130	5.403	5.403	0.000	97	873131	60.0	64.5	
61 Methylcyclohexane	83	5.569	5.569	0.000	88	1496196	60.0	63.1	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	92	791730	60.0	61.2	
65 1,4-Dioxane	88	5.711	5.711	0.000	94	224221	1200.0	1328.6	
64 Dibromomethane	174	5.711	5.711	0.000	94	658845	60.0	71.7	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	1164000	60.0	72.0	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	1519041	120.0	155.9	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	1572803	60.0	76.8	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	96	2878867	120.0	135.9	
71 Toluene	91	6.515	6.515	0.000	99	3857470	60.0	66.3	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	95	1347764	60.0	71.5	
74 Ethyl methacrylate	69	6.776	6.776	0.000	90	1381887	60.0	72.7	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	791429	60.0	69.5	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	940315	60.0	67.5	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	1400884	60.0	65.5	
78 2-Hexanone	43	7.095	7.095	0.000	95	2182766	120.0	143.1	
80 Chlorodibromomethane	129	7.225	7.225	0.000	91	784117	60.0	70.0	
81 Ethylene Dibromide	107	7.332	7.332	0.000	99	724976	60.0	61.6	
83 Chlorobenzene	112	7.781	7.781	0.000	95	2073291	60.0	61.0	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	94	758714	60.0	65.4	
85 Ethylbenzene	106	7.876	7.876	0.000	99	1164276	60.0	62.3	
86 m-Xylene & p-Xylene	106	7.983	7.983	0.000	99	1462696	60.0	63.2	
87 o-Xylene	106	8.361	8.361	0.000	97	1432342	60.0	60.1	
88 Styrene	104	8.373	8.373	0.000	95	2377113	60.0	62.2	
89 Bromoform	173	8.551	8.551	-0.001	97	525428	60.0	68.1	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	3621536	60.0	60.7	
92 Bromobenzene	156	9.000	9.000	0.000	92	897214	60.0	56.8	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	85	1087689	60.0	53.8	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	86	378143	60.0	54.3	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.048	-0.001	92	349603	60.0	59.1	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	1004987	60.0	58.5	
97 2-Chlorotoluene	126	9.189	9.178	0.011	97	844827	60.0	55.7	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	2867428	60.0	56.6	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	864927	60.0	55.6	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	2488936	60.0	56.1	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	2868200	60.0	53.9	
105 sec-Butylbenzene	105	9.805	9.793	0.012	94	3983089	60.0	61.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	1762350	60.0	58.8	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	3408231	60.0	63.7	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	94	1832355	60.0	59.0	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	2930188	60.0	65.3	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	97	1768141	60.0	59.4	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	87	286949	60.0	60.8	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	93	899204	60.0	54.9	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	342826	60.0	54.7	
117 Naphthalene	128	12.195	12.195	0.000	97	3047517	60.0	56.2	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	95	842599	60.0	55.8	
S 124 Trihalomethanes, Total	1				0		240.0	269.0	
S 125 Total BTEX	1				0		300.0	309.9	
S 126 1,2-Dichloroethene, Total	96				0			142.6	
S 127 1,3-Dichloropropene, Total	75				0			148.3	
S 128 Xylenes, Total	106				0		120.0	123.4	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL
VMRGAS_00347	Amount Added:	48.00	Units: uL
vmarolistdw_00352	Amount Added:	48.00	Units: uL
vmrprimw_00394	Amount Added:	48.00	Units: uL
vm50ss_00410	Amount Added:	48.00	Units: uL

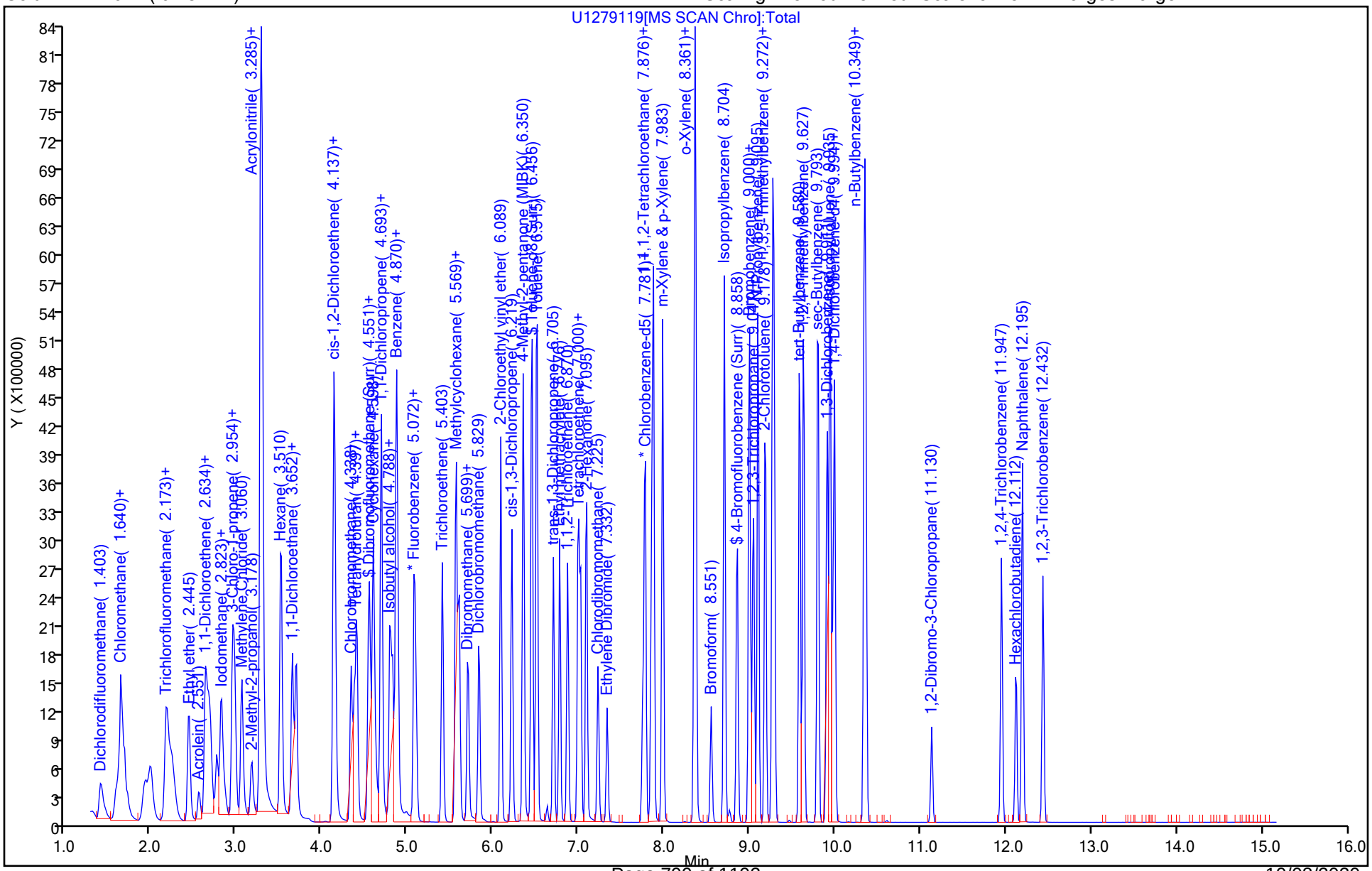
Report Date: 16-Jul-2020 21:24:37 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279119.D

Injection Date:	16-Jul-2020 19:57:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L7			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D
Lims ID: std8260 L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 16-Jul-2020 20:20:30 ALS Bottle#: 12 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-016
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 21:24:44 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1057

First Level Reviewer: laveyt Date: 16-Jul-2020 20:40:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1144678	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	716433	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.000	92	359893	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	1043625	80.0	68.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	98	1255009	80.0	67.5	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	4317396	80.0	89.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	95	1438809	80.0	86.7	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	1447911	80.0	81.0	
10 Chloromethane	50	1.605	1.605	0.000	99	2259568	80.0	74.3	
11 Butadiene	54	1.640	1.652	-0.012	88	1636623	80.0	77.7	
12 Vinyl chloride	62	1.687	1.687	0.000	97	1624267	80.0	75.8	
14 Bromomethane	94	1.936	1.936	0.000	91	1045526	80.0	73.6	
15 Chloroethane	64	1.995	1.995	0.000	100	1187806	80.0	76.2	
16 Dichlorofluoromethane	67	2.173	2.184	-0.011	97	2362624	80.0	72.6	
17 Trichlorofluoromethane	101	2.244	2.184	0.060	98	1880748	80.0	75.1	
19 Ethyl ether	59	2.433	2.445	-0.012	93	1303305	80.0	75.0	
20 Acrolein	56	2.551	2.563	-0.012	99	590629	400.0	394.3	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	97	1718675	80.0	74.7	
22 112TCTFE	101	2.670	2.670	0.000	94	1072209	80.0	79.3	
23 Acetone	43	2.693	2.693	0.000	100	896587	160.0	123.0	
24 Iodomethane	142	2.764	2.776	-0.012	98	1766617	80.0	75.5	
25 Carbon disulfide	76	2.812	2.823	-0.011	100	3433316	80.0	74.1	
27 3-Chloro-1-propene	41	2.942	2.954	-0.012	89	1869760	80.0	72.4	
28 Methyl acetate	43	2.977	2.977	0.000	97	2463274	160.0	140.4	
29 Methylene Chloride	49	3.060	3.060	0.000	94	1496408	80.0	71.2	
30 2-Methyl-2-propanol	59	3.178	3.167	0.011	99	1383065	800.0	636.2	
31 Acrylonitrile	53	3.285	3.285	0.000	98	6068696	800.0	667.5	
32 trans-1,2-Dichloroethene	61	3.285	3.297	-0.012	97	1666148	80.0	75.4	
33 Methyl tert-butyl ether	73	3.297	3.297	0.000	97	3813820	80.0	75.2	
34 Hexane	57	3.510	3.522	-0.012	92	2087141	80.0	85.3	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	2432150	80.0	82.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.699	-0.012	97	3734074	80.0	90.0	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	82	1294590	80.0	62.9	
40 2,2-Dichloropropane	77	4.137	4.137	0.000	61	1274490	80.0	63.1	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	99	448875	160.0	124.3	
46 Chlorobromomethane	49	4.338	4.338	0.000	97	1035588	80.0	61.8	
47 Tetrahydrofuran	42	4.374	4.374	0.000	86	1096878	160.0	118.9	
48 Chloroform	83	4.409	4.409	0.000	94	1957485	80.0	67.2	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	1655131	80.0	71.6	
50 Cyclohexane	84	4.598	4.598	0.000	90	1863865	80.0	68.1	
52 Carbon tetrachloride	117	4.693	4.693	0.000	79	1403246	80.0	74.6	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	94	1634304	80.0	69.5	
53 Isobutyl alcohol	41	4.800	4.788	0.012	94	1406970	2000.0	1523.9	
54 Benzene	78	4.871	4.870	0.000	96	4691183	80.0	66.8	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	1556959	80.0	68.2	
57 n-Heptane	57	5.072	5.083	-0.011	94	953448	80.0	85.6	
59 Trichloroethene	130	5.403	5.403	0.000	97	1298374	80.0	81.7	
61 Methylcyclohexane	83	5.569	5.569	0.000	91	2376794	80.0	85.4	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	94	1315984	80.0	86.7	
64 Dibromomethane	174	5.711	5.711	0.000	95	821478	80.0	76.3	
65 1,4-Dioxane	88	5.711	5.711	0.000	95	304656	1600.0	1539.1	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	1575297	80.0	83.1	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	2001081	160.0	175.1	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	2110296	80.0	87.9	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	96	4104472	160.0	165.2	
71 Toluene	91	6.515	6.515	0.000	99	5188385	80.0	87.3	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	94	1901312	80.0	98.7	
74 Ethyl methacrylate	69	6.776	6.776	0.000	90	1870176	80.0	96.3	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	1039659	80.0	89.3	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	1237632	80.0	87.0	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	2025809	80.0	92.8	
78 2-Hexanone	43	7.095	7.095	0.000	94	2630745	160.0	168.8	
80 Chlorodibromomethane	129	7.225	7.225	0.000	91	1056327	80.0	92.3	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	1076276	80.0	89.4	
83 Chlorobenzene	112	7.781	7.781	0.000	94	2758216	80.0	79.4	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	94	997800	80.0	84.2	
85 Ethylbenzene	106	7.876	7.876	0.000	99	1563228	80.0	81.9	
86 m-Xylene & p-Xylene	106	7.983	7.983	0.000	99	1951120	80.0	82.6	
87 o-Xylene	106	8.361	8.361	0.000	96	1945281	80.0	79.9	
88 Styrene	104	8.373	8.373	0.000	95	3253865	80.0	83.3	
89 Bromoform	173	8.551	8.551	0.000	97	723239	80.0	91.7	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	4849848	80.0	79.5	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	84	1682800	80.0	93.5	
92 Bromobenzene	156	9.000	9.000	0.000	92	1336195	80.0	95.0	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	85	543257	80.0	87.5	
95 trans-1,4-Dichloro-2-butene	53	9.048	9.048	0.000	94	508069	80.0	96.5	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	1447539	80.0	94.6	
97 2-Chlorotoluene	126	9.190	9.178	0.012	97	1259021	80.0	93.2	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	97	4279171	80.0	94.8	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	1291849	80.0	93.2	
102 tert-Butylbenzene	119	9.592	9.580	0.012	92	3711556	80.0	94.0	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	4329767	80.0	91.3	
105 sec-Butylbenzene	105	9.805	9.793	0.012	94	4715586	80.0	82.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	2158288	80.0	80.8	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	4040650	80.0	84.8	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	2187419	80.0	79.1	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	3326661	80.0	83.3	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	2080580	80.0	78.5	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	87	380957	80.0	90.6	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	94	1243231	80.0	85.2	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	96	465852	80.0	83.4	
117 Naphthalene	128	12.195	12.195	0.000	97	4209448	80.0	87.1	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	96	1197429	80.0	89.1	
S 124 Trihalomethanes, Total	1				0		320.0	334.3	
S 125 Total BTEX	1				0		400.0	398.4	
S 126 1,2-Dichloroethene, Total	96				0			138.3	
S 127 1,3-Dichloropropene, Total	75				0			186.6	
S 128 Xylenes, Total	106				0		160.0	162.5	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL
VMRGAS_00347	Amount Added:	64.00	Units: uL
vmarolistdw_00352	Amount Added:	64.00	Units: uL
vmrprimw_00394	Amount Added:	64.00	Units: uL
vm50ss_00410	Amount Added:	64.00	Units: uL

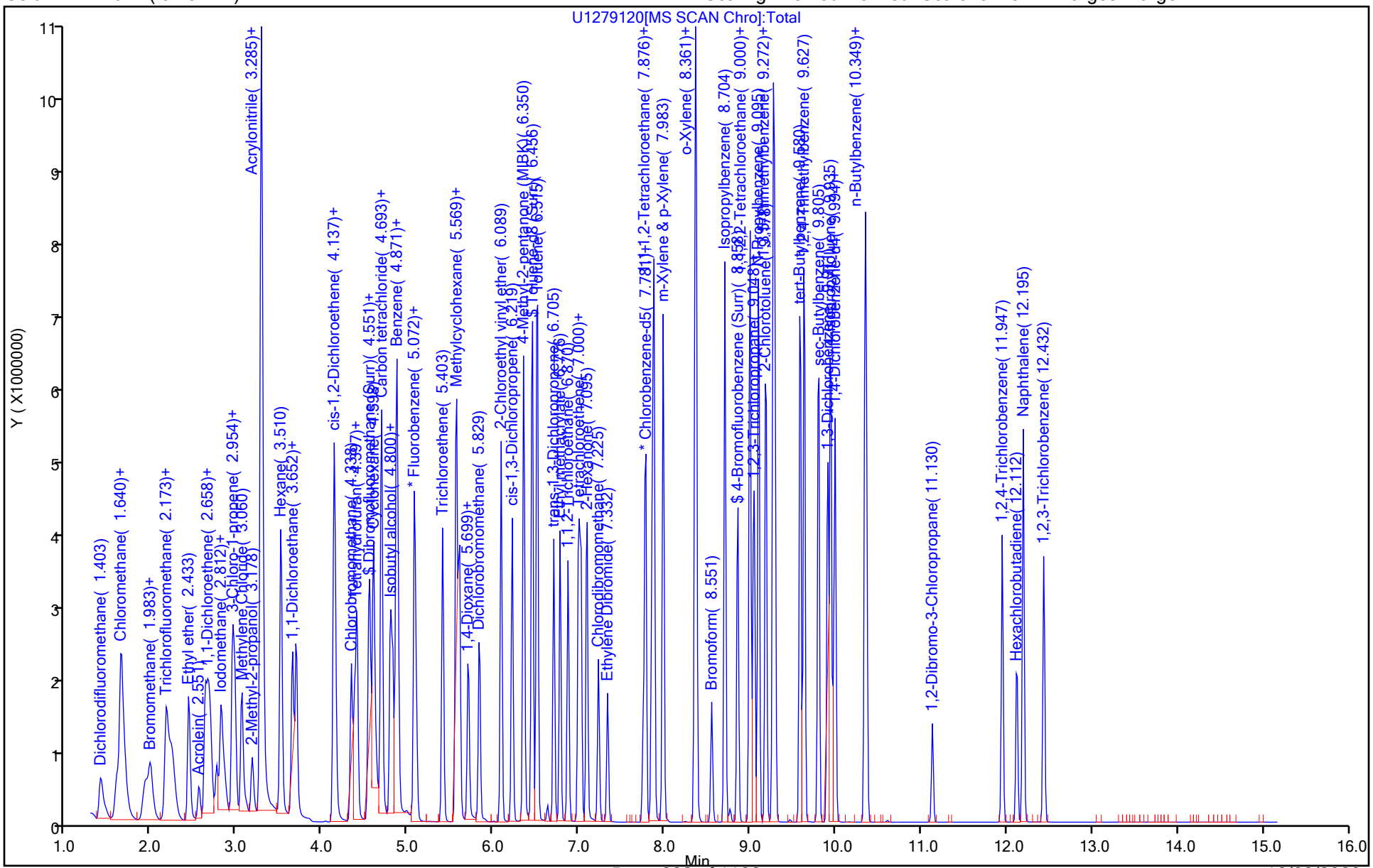
Report Date: 16-Jul-2020 21:24:48 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Injection Date:	16-Jul-2020 20:20:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L8			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2218 0.2518	0.2214 0.2696	0.2659	0.2384	0.2602	Ave		0.2470			0.1000	8.2		20.0			
Chloromethane	0.3783 0.2945	0.3595 0.2731	0.3151	0.2876	0.2995	Ave		0.3154			0.1000	12.4		20.0			
Vinyl chloride	0.3441 0.3421	0.3320 0.3231	0.3537	0.3285	0.3450	Ave		0.3384			0.1000	3.2		20.0			
Butadiene	0.2796 0.3092	0.2936 0.3004	0.3107	0.2890	0.3054	Ave		0.2983				3.8		20.0			
Bromomethane	0.2541 +++++	0.2217 +++++	0.2020	0.1954	0.2132	Ave		0.2173			0.0500	10.6		20.0			
Chloroethane	0.1655 0.1853	0.1779 0.2067	0.1759	0.1659	0.1841	Ave		0.1802			0.0500	7.8		20.0			
Dichlorofluoromethane	0.3846 0.3845	0.4010 0.3725	0.3846	0.3676	0.3876	Ave		0.3832				2.8		20.0			
Trichlorofluoromethane	0.2930 0.3557	0.3059 0.3590	0.3637	0.3336	0.3592	Ave		0.3386			0.1000	8.5		20.0			
Ethyl ether	0.1631 0.1632	0.1369 0.1628	0.1629	0.1573	0.1706	Ave		0.1595				6.7		20.0			
Acrolein	+++++ 0.0124	0.0103 +++++	0.0120	0.0115	0.0135	Ave		0.0119				10.0		20.0			
1,1-Dichloroethene	0.2222 0.2073	0.1865 0.2038	0.2049	0.2001	0.2092	Ave		0.2049			0.1000	5.2		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1208 0.1694	0.1413 0.1822	0.1752	0.1667	0.1746	Ave		0.1615			0.0500	13.7		20.0			
Acetone	0.0210 0.0158	0.0212 0.0170	0.0175	0.0150	0.0174	Ave		0.0178			0.0100	13.4		20.0			
Iodomethane	0.3678 0.3170	0.3606 0.2758	0.2905	0.2939	0.3082	Ave		0.3163				11.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.6838 0.6546	0.6764 0.6419	0.6598	0.6452	0.6643	Ave		0.6609			0.1000	2.3		20.0			
Methyl acetate	0.1087 0.1222	0.1221 0.1326	0.1311	0.1148	0.1351	Ave		0.1238			0.1000	7.9		20.0			
3-Chloro-1-propene	0.2633 0.2720	0.2858 0.2612	0.2643	0.2604	0.2759	Ave		0.2690				3.5		20.0			
Methylene Chloride	0.2860 0.2270	0.2842 0.2199	0.2333	0.2192	0.2334	Ave		0.2433			0.1000	12.0		20.0			
tert-Butyl alcohol	+++++ 0.0153	0.0147 0.0168	0.0164	0.0141	0.0174	Ave		0.0158				8.1		20.0			
Acrylonitrile	0.0656 0.0726	0.0729 0.0766	0.0760	0.0696	0.0793	Ave		0.0732				6.3		20.0			
Methyl tert-butyl ether	0.4760 0.6053	0.4902 0.6075	0.5877	0.5678	0.6331	Ave		0.5668			0.1000	10.7		20.0			
trans-1,2-Dichloroethene	0.2384 0.2423	0.2596 0.2355	0.2429	0.2345	0.2444	Ave		0.2425			0.1000	3.5		20.0			
Hexane	+++++ 0.2745	0.1945 +++++	0.2886	0.2700	0.2962	Ave		0.2648				15.4		20.0			
Vinyl acetate	0.1774 0.3207	0.2093 0.3398	0.2710	0.2875	0.3366	Lin1	-0.111	0.3282				12.8			0.9970		0.9900
1,1-Dichloroethane	0.3589 0.3855	0.3749 0.3697	0.3804	0.3678	0.3882	Ave		0.3751			0.2000	2.8		20.0			
2-Butanone	+++++ 0.0233	0.0122 0.0251	0.0234	0.0204	0.0250	Lin1	-0.028	0.0244			0.0100	8.4			0.9970		0.9900
cis-1,2-Dichloroethene	0.2521 0.2623	0.2643 0.2545	0.2562	0.2551	0.2673	Ave		0.2588			0.1000	2.2		20.0			
2,2-Dichloropropane	0.2918 0.3402	0.2993 0.3392	0.3205	0.3204	0.3420	Ave		0.3219				6.3		20.0			
Bromochloromethane	0.1180 0.1235	0.1223 0.1158	0.1274	0.1225	0.1265	Ave		0.1223				3.4		20.0			
Tetrahydrofuran	0.0351 0.0470	0.0489 0.0517	0.0490	0.0450	0.0525	Ave		0.0470				12.4		20.0			
Chloroform	0.3746 0.3883	0.4063 0.3741	0.3899	0.3805	0.3963	Ave		0.3871			0.2000	3.0		20.0			
1,1,1-Trichloroethane	0.3237 0.3547	0.3213 0.3428	0.3533	0.3400	0.3573	Ave		0.3419			0.1000	4.3		20.0			
Cyclohexane	0.2456 0.3363	0.2801 0.3663	0.3404	0.3252	0.3429	Ave		0.3195			0.1000	13.1		20.0			
1,1-Dichloropropene	0.2701 0.3241	0.2662 0.3191	0.3132	0.3070	0.3240	Ave		0.3034				8.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.2792 0.3197	0.2877 0.3130	0.3080	0.2981	0.3204	Ave		0.3037			0.1000	5.3		20.0			
Isobutyl alcohol	0.0028 0.0046	0.0033 0.0052	0.0047	0.0042	0.0052	Lin1	-0.036	0.0049				10.1			0.9950		0.9900
Benzene	0.8958 0.9477	0.8544 0.9278	0.9308	0.9089	0.9649	Ave		0.9186			0.5000	4.0		20.0			
1,2-Dichloroethane	0.2645 0.2824	0.2802 0.2758	0.2835	0.2723	0.2917	Ave		0.2786			0.1000	3.1		20.0			
n-Heptane	1.2696 0.1520	0.6897 +++++	0.2114	0.1709	0.1691	Lin1	0.5569	0.1475				7.2			0.9980		0.9900
Trichloroethene	0.2818 0.2788	0.2559 0.2695	0.2749	0.2670	0.2825	Ave		0.2729			0.1500	3.5		20.0			
Methylcyclohexane	+++++ 0.3870	0.2788 0.4357	0.3872	0.3702	0.3992	Ave		0.3764			0.1000	14.0		20.0			
1,2-Dichloropropane	0.1984 0.2181	0.1841 0.2122	0.2140	0.2101	0.2235	Ave		0.2086			0.1000	6.4		20.0			
1,4-Dioxane	+++++ 0.0025	0.0021 0.0026	0.0026	0.0022	0.0028	Ave		0.0025				10.7		20.0			
Dibromomethane	0.1250 0.1340	0.1361 0.1285	0.1306	0.1289	0.1378	Ave		0.1316				3.5		20.0			
Bromodichloromethane	0.2580 0.2908	0.2694 0.2803	0.2760	0.2713	0.2929	Ave		0.2770			0.1500	4.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1378	0.0989 0.1389	0.1289	0.1256	0.1440	Ave		0.1290				12.6		20.0			
cis-1,3-Dichloropropene	0.2784 0.3700	0.3087 0.3601	0.3444	0.3414	0.3763	Ave		0.3399			0.1500	10.3		20.0			
4-Methyl-2-pentanone	+++++ 0.1440	0.1098 0.1530	0.1421	0.1345	0.1594	Ave		0.1404			0.0500	12.4		20.0			
Toluene	1.1351 1.3150	1.1636 1.3035	1.2726	1.2619	1.3268	Ave		1.2541			0.4000	6.0		20.0			
trans-1,3-Dichloropropene	0.3164 0.4350	0.3325 0.4276	0.3934	0.3933	0.4384	Ave		0.3909			0.1000	12.6		20.0			
Ethyl methacrylate	+++++ 0.3165	0.2139 0.3254	0.2801	0.2912	0.3320	Ave		0.2932				14.9		20.0			
1,1,2-Trichloroethane	0.1902 0.2536	0.2320 0.2512	0.2457	0.2429	0.2602	Ave		0.2394			0.1000	9.8		20.0			
Tetrachloroethene	0.2550 0.3014	0.2639 0.2975	0.2761	0.2777	0.2985	Ave		0.2814			0.1500	6.5		20.0			
1,3-Dichloropropane	0.3205 0.4488	0.3791 0.4435	0.4273	0.4227	0.4594	Ave		0.4145				11.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	+++++ 0.1261	0.0995 0.1358	0.1277	0.1193	0.1398	Ave		0.1247			0.0500	11.5		20.0			
Dibromochloromethane	0.2163 0.2991	0.2263 0.2949	0.2634	0.2693	0.2974	Ave		0.2667				12.8		20.0			
1,2-Dibromoethane	0.1998 0.2653	0.2105 0.2614	0.2519	0.2508	0.2731	Ave		0.2447				11.5		20.0			
Chlorobenzene	0.8285 0.8839	0.8297 0.8689	0.8631	0.8603	0.8857	Ave		0.8600			0.3000	2.7		20.0			
1,1,1,2-Tetrachloroethane	0.2131 0.3217	0.2432 0.3162	0.2878	0.2927	0.3179	Ave		0.2847				14.6		20.0			
Ethylbenzene	0.4234 0.4904	0.4369 0.4898	0.4717	0.4677	0.4923	Ave		0.4675				5.9		20.0			
m-Xylene & p-Xylene	0.5160 0.6081	0.5232 0.6001	0.5775	0.5819	0.6124	Ave		0.5742				6.9		20.0			
o-Xylene	0.4893 0.5895	0.5046 0.5671	0.5484	0.5608	0.5801	Ave		0.5485				6.9		20.0			
Styrene	0.7552 0.9871	0.7834 0.9658	0.9143	0.9325	0.9848	Ave		0.9033			0.3000	10.6		20.0			
Bromoform	+++++ 0.2009	0.1488 0.2030	0.1641	0.1713	0.2026	Ave		0.1818			0.1000	12.9		20.0			
Isopropylbenzene	1.2134 1.5091	1.2019 1.4875	1.4375	1.4522	1.5016	Ave		1.4004			0.1000	9.6		20.0			
1,1,2,2-Tetrachloroethane	0.4426 0.5078	0.4953 0.5189	0.5386	0.5154	0.5510	Ave		0.5099			0.3000	6.9		20.0			
Bromobenzene	0.6096 0.6743	0.6562 0.6684	0.6697	0.6634	0.6961	Ave		0.6625				4.0		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1475	0.1253 0.1531	0.1508	0.1420	0.1566	Ave		0.1459				7.7		20.0			
1,2,3-Trichloropropane	0.1561 0.1774	0.1776 0.1819	0.1958	0.1798	0.1932	Ave		0.1803				7.2		20.0			
n-Propylbenzene	0.6132 0.7743	0.7088 0.7636	0.7846	0.7837	0.7970	Ave		0.7465				8.8		20.0			
2-Chlorotoluene	0.5429 0.6483	0.6014 0.6309	0.6689	0.6480	0.6652	Ave		0.6294				7.0		20.0			
1,3,5-Trimethylbenzene	1.6130 2.1318	1.8371 2.0970	2.1585	2.1234	2.1789	Ave		2.0200				10.6		20.0			
4-Chlorotoluene	0.5490 0.6702	0.6204 0.6545	0.6858	0.6754	0.6992	Ave		0.6506				7.9		20.0			
tert-Butylbenzene	1.5859 1.9134	1.7640 1.8932	1.9285	1.9144	1.9629	Ave		1.8518				7.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	1.5750 2.1356	1.7246 2.0831	2.1337	2.1180	2.1609	Ave		1.9901				11.9		20.0			
sec-Butylbenzene	2.1202 2.7901	2.4857 2.7520	2.8239	2.7829	2.8586	Ave		2.6591				10.1		20.0			
1,3-Dichlorobenzene	1.2312 1.3012	1.2672 1.2554	1.2539	1.2588	1.3216	Ave		1.2699			0.6000	2.4		20.0			
p-Isopropyltoluene	1.7102 2.4835	2.0522 2.4489	2.4301	2.4445	2.5072	Ave		2.2966				13.1		20.0			
1,4-Dichlorobenzene	1.2723 1.2924	1.2688 1.2655	1.2913	1.2577	1.3209	Ave		1.2813			0.5000	1.7		20.0			
n-Butylbenzene	1.4986 2.0989	1.7422 2.0828	2.0752	2.0435	2.1322	Ave		1.9534				12.3		20.0			
1,2-Dichlorobenzene	1.0596 1.1963	1.2020 1.1629	1.1881	1.1743	1.2368	Ave		1.1743			0.4000	4.7		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1203	0.0922 0.1260	0.1182	0.1080	0.1301	Ave		0.1158			0.0500	11.9		20.0			
1,2,4-Trichlorobenzene	0.5767 0.7300	0.6067 0.7181	0.6566	0.6719	0.7296	Ave		0.6699			0.2000	9.1		20.0			
Hexachlorobutadiene	0.2694 0.3640	0.3392 0.3663	0.3312	0.3391	0.3729	Ave		0.3403				10.3		20.0			
Naphthalene	1.2126 1.5989	1.3344 1.6436	1.5323	1.4810	1.6951	Ave		1.4997				11.5		20.0			
1,2,3-Trichlorobenzene	0.5312 0.6177	0.6018 0.6193	0.6026	0.5727	0.6527	Ave		0.5997				6.4		20.0			
Dibromofluoromethane (Surr)	0.2007 0.2242	0.2218 0.2164	0.2194	0.2146	0.2289	Ave		0.2180				4.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2375 0.2328	0.2484 0.2314	0.2386	0.2217	0.2415	Ave		0.2360				3.6		20.0			
Toluene-d8 (Surr)	0.9462 1.1282	1.0139 1.1330	1.0887	1.0746	1.1426	Ave		1.0753				6.7		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.3956	0.3765 0.3894	0.3880	0.3796	0.3997	Ave		0.3881				2.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4665 745131	9486 1096048	126306	227765	512634	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	7957 871361	15405 1110343	149665	274711	590076	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	7238 1012197	14226 1313554	168014	313862	679879	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	5881 914827	12580 1221080	147574	276064	601757	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	5345 +++++	9499 +++++	95953	186631	420133	0.500 +++++	1.00 +++++	10.0	20.0	40.0
Chloroethane	FB	Ave	3482 548317	7624 840147	83551	158483	362824	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	8090 1137799	17183 1514080	182674	351184	763828	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	6163 1052482	13107 1459454	172726	318731	707684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	3432 482766	5866 661598	77374	150301	336091	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	+++++ 182892	2199 +++++	28530	54891	133174	+++++ 300	5.00 +++++	50.0	100	200
1,1-Dichloroethene	FB	Ave	4675 613475	7991 828592	97332	191182	412233	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2542 501383	6055 740610	83204	159259	344047	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Ave	885 93482	1814 137949	16639	28725	68698	1.00 120	2.00 160	20.0	40.0	80.0
Iodomethane	FB	Ave	7737 937946	15454 1121127	137997	280739	607259	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	14385 1937057	28986 2609436	313390	616385	1308981	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	4573 723056	10468 1078188	124579	219369	532525	1.00 120	2.00 160	20.0	40.0	80.0
3-Chloro-1-propene	FB	Ave	5538 804942	12249 1061610	125526	248783	543714	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylene Chloride	FB	Ave	6017 671839	12177 893994	110800	209370	459897	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butyl alcohol	FB	Ave	+++++ 452953	6282 684907	77688	135048	341990	+++++ 600	10.0 800	100	200	400
Acrylonitrile	FB	Ave	13809 2146830	31232 3114778	360846	664569	1561999	5.00 600	10.0 800	100	200	400
Methyl tert-butyl ether	FB	Ave	10014 1791186	21006 2469446	279149	542453	1247519	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	5014 717027	11126 957447	115378	224002	481658	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	+++++ 812220	8335 +++++	137081	257886	583618	+++++ 60.0	1.00 +++++	10.0	20.0	40.0
Vinyl acetate	FB	Lin1	3731 948886	8968 1381139	128725	274666	663154	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	7550 1140699	16067 1502970	180676	351386	764973	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone	FB	Lin1	+++++ 137692	1042 203878	22232	38988	98627	+++++ 120	2.00 160	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	5303 776002	11326 1034403	121706	243716	526609	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	6138 1006523	12827 1379044	152244	306107	673786	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromochloromethane	FB	Ave	2482 365325	5242 470910	60499	117007	249202	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Ave	1478 278245	4187 419976	46517	85989	206722	1.00 120	2.00 160	20.0	40.0	80.0
Chloroform	FB	Ave	7880 1148977	17409 1520699	185173	363463	780869	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	6809 1049551	13769 1393442	167803	324837	704006	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	5166 995055	12004 1489074	161683	310680	675623	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	5681 958880	11408 1297043	148760	293279	638498	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5873 946104	12330 1272263	146275	284754	631395	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Lin1	1480 341332	3530 525070	55676	100513	254808	12.5 1500	25.0 2000	250	500	1000

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	18845 2804292	36613 3771486	442100	868256	1901286	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	5565 835597	12009 1121069	134627	260130	574817	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	26707 449823	29555 +++++	100398	163268	333099	0.500 60.0	1.00 +++++	10.0	20.0	40.0
Trichloroethene	FB	Ave	5929 825111	10964 1095743	130574	255094	556593	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	+++++ 1145090	11948 1771032	183908	353700	786565	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	4173 645329	7887 862746	101634	200726	440298	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 147449	1762 208939	24666	42478	109037	+++++ 1200	20.0 1600	200	400	800
Dibromomethane	FB	Ave	2630 396385	5834 522492	62006	123177	271437	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromodichloromethane	FB	Ave	5428 860357	11545 1139283	131089	259213	577147	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 815405	8476 1129127	122410	239979	567444	+++++ 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	5856 1094811	13227 1463938	163597	326122	741413	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone	FB	Ave	+++++ 851990	9406 1244054	134958	256926	628003	+++++ 120	2.00 160	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	19729 3011770	41109 4057355	479847	938059	2039743	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5499 996267	11747 1330925	148347	292377	673884	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 724838	7556 1012874	105621	216473	510420	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3305 580728	8198 781869	92657	180594	400018	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	4432 690225	9324 925879	104096	206410	458925	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	5570 1027994	13393 1380488	161106	314262	706289	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	+++++ 577473	7030 845199	96295	177407	429724	+++++ 120	2.00 160	20.0	40.0	80.0
Dibromochloromethane	CBNZ d5	Ave	3760 685086	7995 917799	99325	200173	457254	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromoethane	CBNZ d5	Ave	3472 607659	7438 813685	94969	186444	419853	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14399 2024322	29312 2704599	325429	639571	1361605	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3704 736691	8594 984172	108530	217609	488684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	7359 1123177	15435 1524597	177845	347713	756865	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	8968 1392681	18486 1868000	217767	432592	941488	0.500 60.0	1.00 80.0	10.0	20.0	40.0
o-Xylene	CBNZ d5	Ave	8505 1350111	17828 1765045	206785	416898	891801	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Styrene	CBNZ d5	Ave	13125 2260683	27678 3006004	344743	693212	1513984	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromoform	CBNZ d5	Ave	+++++ 460205	5256 631827	61865	127319	311415	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	21090 3456206	42462 4629878	542009	1079601	2308401	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4265 678721	9414 937618	110519	212748	478558	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromobenzene	DCBd 4	Ave	5874 901413	12472 1207707	137415	273875	604593	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 197195	2381 276670	30947	58600	136003	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	1504 237185	3375 328647	40174	74238	167810	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Propylbenzene	DCBd 4	Ave	5909 1035010	13473 1379627	160990	323520	692257	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	5232 866639	11432 1139934	137252	267505	577725	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	15543 2849609	34919 3788867	442911	876543	1892509	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	5290 895912	11792 1182465	140726	278802	607272	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butylbenzene	DCBd 4	Ave	15282 2557650	33529 3420590	395706	790282	1704932	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	15177 2854633	32781 3763780	437820	874333	1876870	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	20431 3729613	47246 4972313	579450	1148815	2482909	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	11864 1739274	24087 2268220	257296	519642	1147861	0.500 60.0	1.00 80.0	10.0	20.0	40.0
p-Isopropyltoluene	DCBd 4	Ave	16480 3319699	39007 4424579	498636	1009090	2177630	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	12260 1727570	24117 2286401	264974	519200	1147309	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	14441 2805692	33115 3763123	425819	843589	1851941	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	10211 1599122	22847 2101050	243791	484748	1074224	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 160845	1752 227651	24251	44593	112988	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5557 975744	11531 1297390	134730	277363	633734	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	2596 486539	6447 661758	67962	139998	323865	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	11685 2137279	25363 2969700	314418	611384	1472308	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5119 825636	11438 1119006	123648	236399	566895	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	4221 663483	9504 879528	104187	205047	451079	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	4996 688950	10645 940507	113309	211750	475834	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	16446 2583965	35823 3526711	410525	798835	1756542	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 905980	13303 1211964	146317	282170	614486	+++++ 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Vinyl acetate	21.6						50					
2-Butanone	+++++	7.4						50				
Isobutyl alcohol	14.7						50					
n-Heptane	5.5 +++++						50					

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Sep-2020 12:22:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-009
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:52:34 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 13:06:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1016272	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	82	778146	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	451694	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	879528	80.0	79.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.001	97	940507	80.0	78.4	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	3526711	80.0	84.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	1211964	80.0	80.3	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	1096048	80.0	87.3	
10 Chloromethane	50	1.909	1.908	0.001	99	1110343	80.0	69.3	
11 Vinyl chloride	62	2.027	2.027	0.000	98	1313554	80.0	76.4	
12 Butadiene	54	2.075	2.074	0.001	97	1221080	80.0	80.6	
13 Bromomethane	94		2.359				ND	ND	U
14 Chloroethane	64	2.478	2.490	-0.012	100	840147	80.0	91.8	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	98	1514080	80.0	77.8	
16 Trichlorofluoromethane	101	2.751	2.750	0.001	98	1459454	80.0	84.8	
17 Ethyl ether	59	3.035	3.035	0.000	87	661598	80.0	81.6	
18 Acrolein	56		3.165				ND	ND	U
19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	828592	80.0	79.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	93	740610	80.0	90.3	
21 Acetone	58	3.308	3.308	0.000	99	137949	160.0	152.1	
23 Iodomethane	142	3.403	3.414	-0.011	98	1121127	80.0	69.8	
24 Carbon disulfide	76	3.474	3.474	0.000	99	2609436	80.0	77.7	
27 Methyl acetate	43	3.593	3.604	-0.011	96	1078188	160.0	171.4	
26 3-Chloro-1-propene	41	3.604	3.616	-0.012	86	1061610	80.0	77.7	
28 Methylene Chloride	84	3.735	3.735	0.000	88	893994	80.0	72.3	
29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	684907	800.0	854.3	
30 Acrylonitrile	53	3.948	3.948	0.000	99	3114778	800.0	837.2	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	2469446	80.0	85.7	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	96	957447	80.0	77.7	
33 Hexane	57		4.221				ND	ND	U
35 Vinyl acetate	43	4.363	4.363	0.000	97	1381139	80.0	83.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	1502970	80.0	78.9	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	203878	160.0	165.8	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	1034403	80.0	78.7	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	87	1379044	80.0	84.3	
45 Chlorobromomethane	128	5.087	5.087	0.000	87	470910	80.0	75.8	
46 Tetrahydrofuran	42	5.087	5.087	0.000	83	419976	160.0	175.8	
47 Chloroform	83	5.158	5.158	0.000	93	1520699	80.0	77.3	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	1393442	80.0	80.2	
49 Cyclohexane	56	5.371	5.371	0.000	86	1489074	80.0	91.7	
51 Carbon tetrachloride	117	5.442	5.442	0.000	91	1272263	80.0	82.4	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	1297043	80.0	84.1	
52 Isobutyl alcohol	41	5.502	5.502	0.000	93	525070	2000.0	2103.0	
54 Benzene	78	5.620	5.620	0.000	95	3771486	80.0	80.8	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	1121069	80.0	79.2	
56 n-Heptane	57		5.845				ND	ND	U
58 Trichloroethene	130	6.178	6.178	0.000	95	1095743	80.0	79.0	
60 Methylcyclohexane	83	6.379	6.391	-0.012	88	1771032	80.0	92.6	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	862746	80.0	81.4	
64 1,4-Dioxane	88	6.462	6.462	0.000	89	208939	1600.0	1677.8	
63 Dibromomethane	93	6.486	6.486	0.000	92	522492	80.0	78.2	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	1139283	80.0	81.0	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	1129127	160.0	172.3	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	1463938	80.0	84.8	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	1244054	160.0	174.3	
70 Toluene	91	7.316	7.316	0.000	99	4057355	80.0	83.2	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	96	1330925	80.0	87.5	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	1012874	80.0	88.8	
73 1,1,2-Trichloroethane	97	7.696	7.695	0.001	90	781869	80.0	83.9	
75 Tetrachloroethene	164	7.779	7.778	0.001	98	925879	80.0	84.6	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	1380488	80.0	85.6	
76 2-Hexanone	43	7.873	7.873	0.000	94	845199	160.0	174.2	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	917799	80.0	88.5	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	813685	80.0	85.5	
82 Chlorobenzene	112	8.621	8.620	0.001	97	2704599	80.0	80.8	
84 Ethylbenzene	106	8.704	8.703	0.001	98	1524597	80.0	83.8	
83 1,1,1,2-Tetrachloroethane	131	8.704	8.703	0.001	94	984172	80.0	88.9	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	1868000	80.0	83.6	
86 o-Xylene	106	9.190	9.201	-0.011	97	1765045	80.0	82.7	
87 Styrene	104	9.213	9.213	0.000	95	3006004	80.0	85.5	
88 Bromoform	173	9.403	9.403	0.000	98	631827	80.0	89.3	
89 Isopropylbenzene	105	9.546	9.545	0.001	95	4629878	80.0	85.0	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	937618	80.0	81.4	
93 Bromobenzene	156	9.866	9.865	0.001	89	1207707	80.0	80.7	
94 trans-1,4-Dichloro-2-butene	53	9.878	9.877	0.001	81	276670	80.0	84.0	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	328647	80.0	80.7	
96 N-Propylbenzene	120	9.949	9.949	0.001	98	1379627	80.0	81.8	
97 2-Chlorotoluene	126	10.044	10.043	0.001	98	1139934	80.0	80.2	
99 1,3,5-Trimethylbenzene	105	10.127	10.126	0.001	94	3788867	80.0	83.1	
100 4-Chlorotoluene	126	10.174	10.174	0.000	96	1182465	80.0	80.5	
102 tert-Butylbenzene	119	10.447	10.447	0.000	91	3420590	80.0	81.8	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	3763780	80.0	83.7	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	4972313	80.0	82.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.790	0.001	98	2268220	80.0	79.1	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	4424579	80.0	85.3	
108 1,4-Dichlorobenzene	146	10.886	10.885	0.001	96	2286401	80.0	79.0	
111 n-Butylbenzene	91	11.218	11.217	0.001	97	3763123	80.0	85.3	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	2101050	80.0	79.2	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	93	227651	80.0	87.0	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	1297390	80.0	85.7	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	661758	80.0	86.1	
117 Naphthalene	128	13.150	13.150	0.000	96	2969700	80.0	87.7	
118 1,2,3-Trichlorobenzene	180	13.400	13.399	0.001	95	1119006	80.0	82.6	
S 134 Trihalomethanes, Total	1				0		320.0	336.1	
S 158 Total BTEX	1				0		400.0	414.1	
S 131 1,2-Dichloroethene, Total	96				0			156.3	
S 132 1,3-Dichloropropene, Total	75				0			172.3	
S 133 Xylenes, Total	106				0		160.0	166.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00353	Amount Added:	64.00	Units: uL
vmarolistdw_00359	Amount Added:	64.00	Units: uL
vmrprimw_00402	Amount Added:	64.00	Units: uL
vm50ss_00417	Amount Added:	64.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

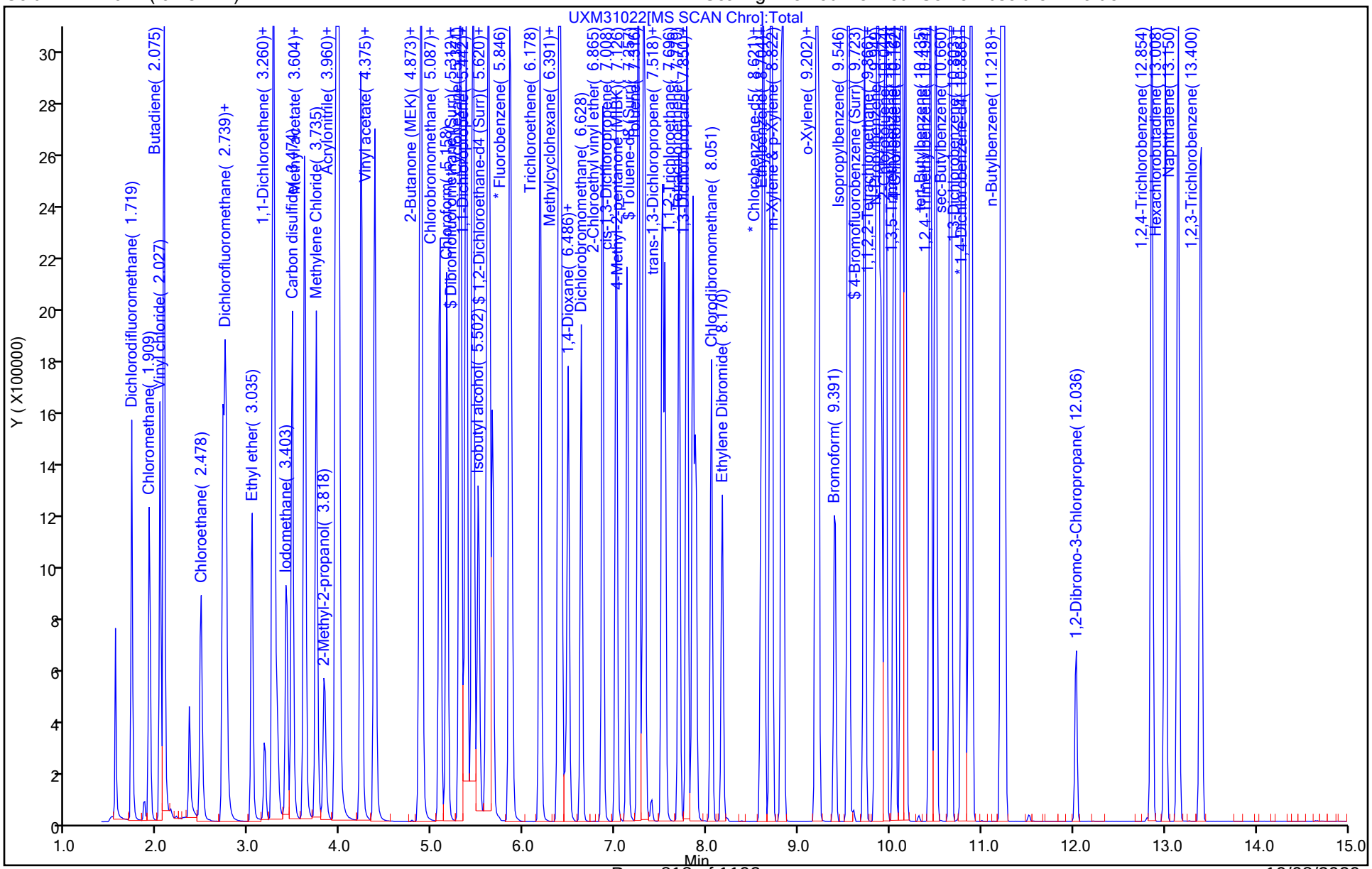
Report Date: 08-Sep-2020 15:52:36 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D

Injection Date:	08-Sep-2020 12:22:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L7			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

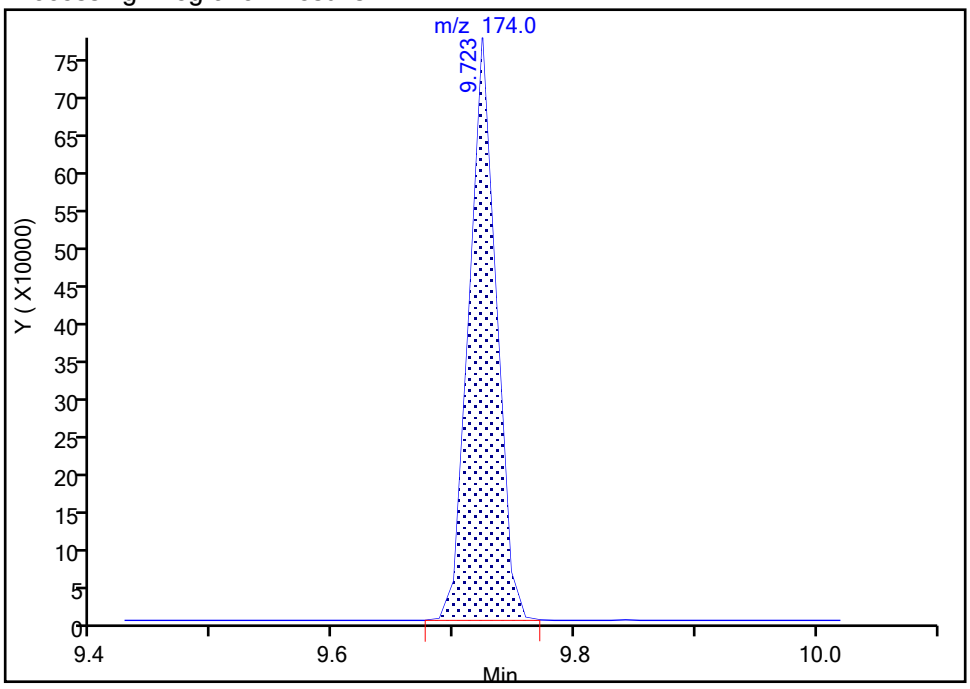
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 2

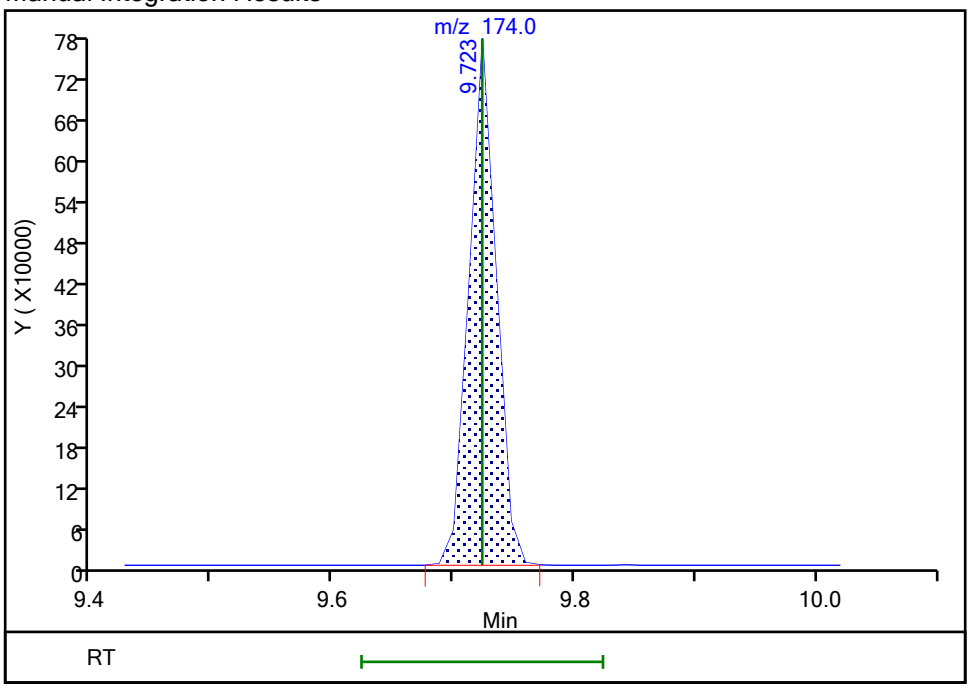
Processing Integration Results

RT: 9.72
Area: 1209500
Amount: 80.255826
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 1209500
Amount: 80.255826
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:46:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

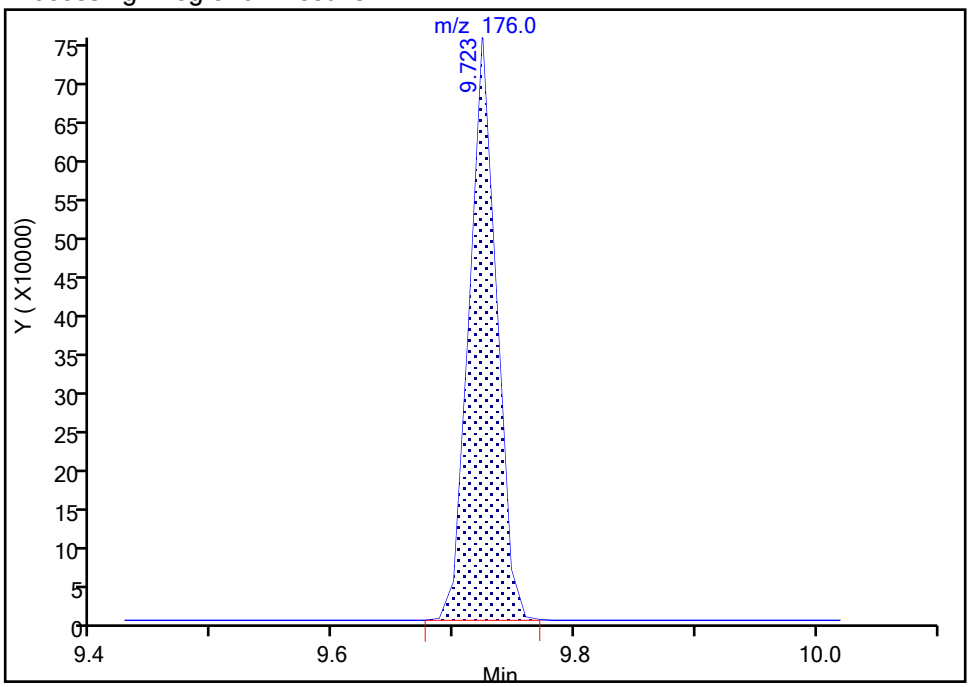
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 3

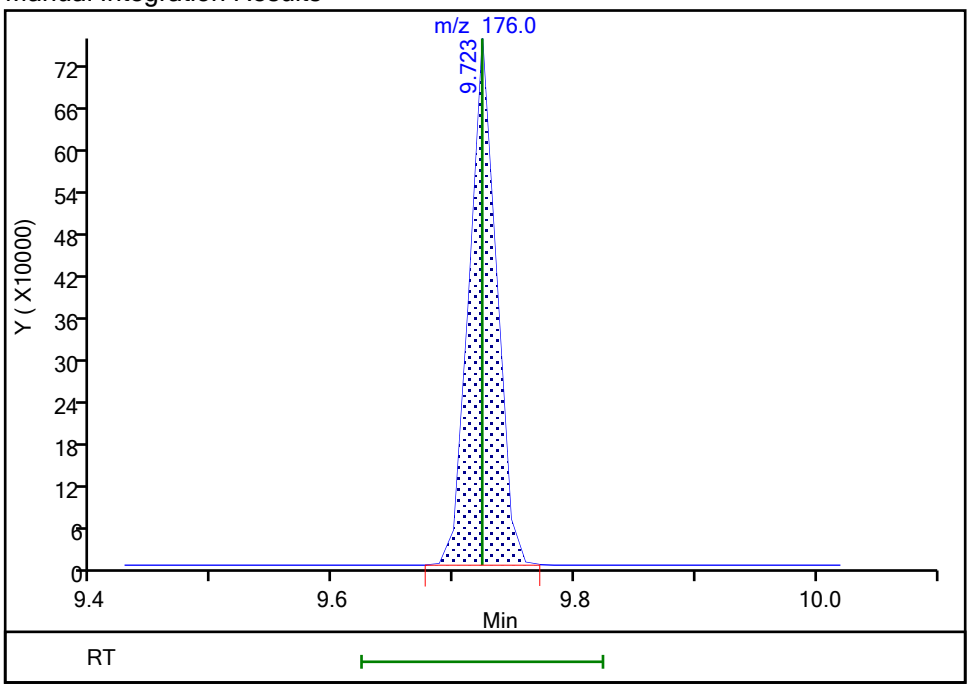
Processing Integration Results

RT: 9.72
Area: 1177336
Amount: 80.255826
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 1177336
Amount: 80.255826
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:46:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

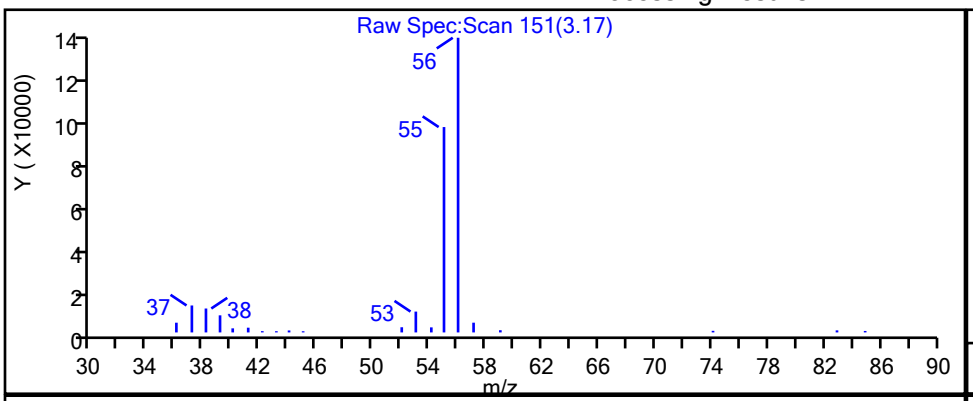
User Disabled Compound Report

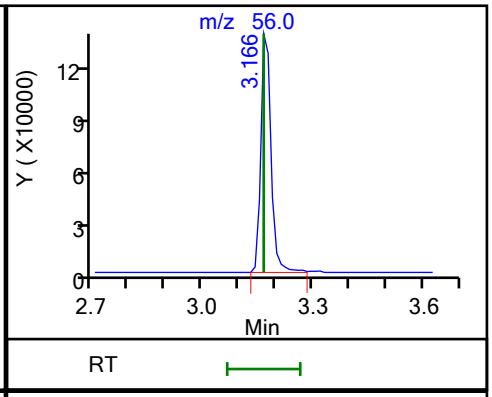
Eurofins TestAmerica, Canton

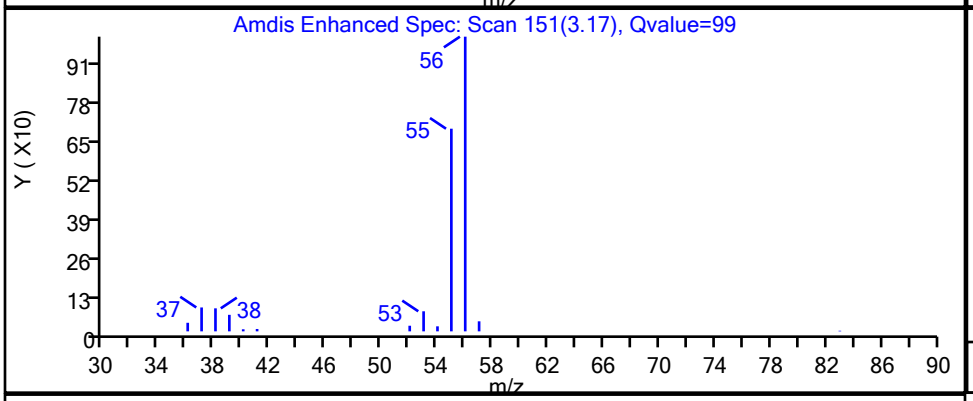
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

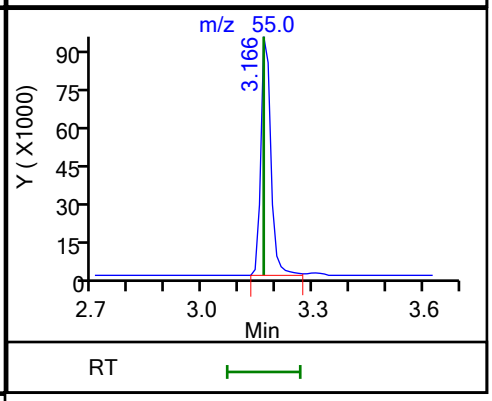
18 Acrolein, CAS: 107-02-8

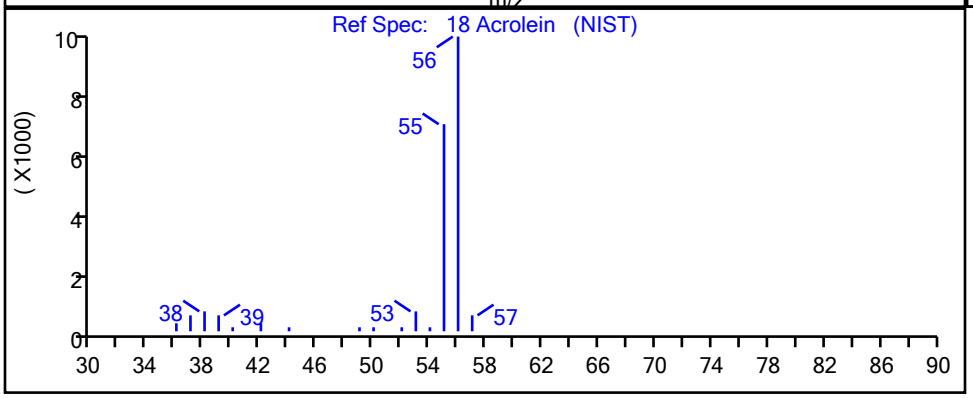
Processing Results











RT	Mass	Response	Amount
3.17	56.00	267337	433.6045
3.17	55.00	182762	

Reviewer: bosworthh, 08-Sep-2020 15:42:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

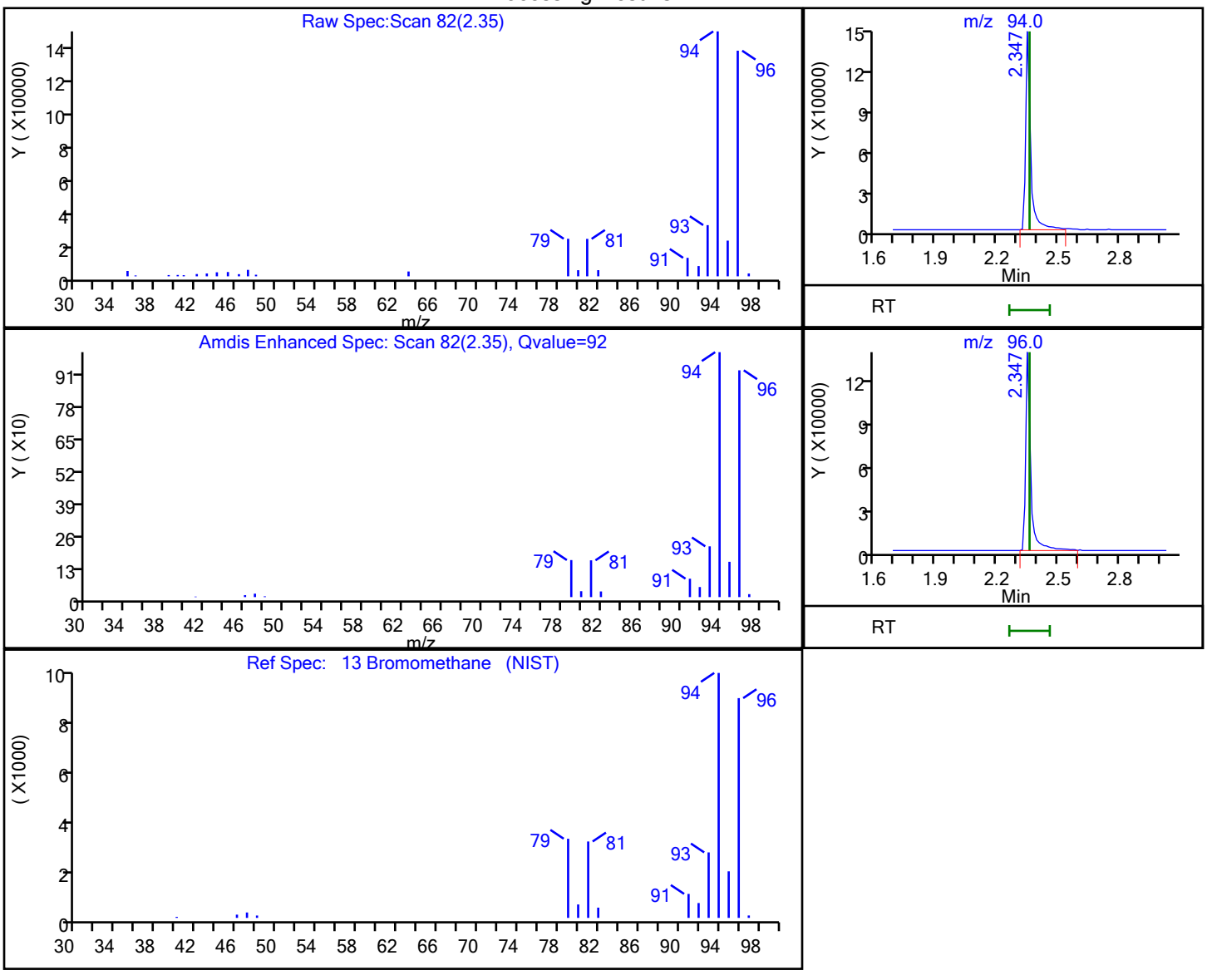
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.35	94.00	255095	51.501538
2.35	96.00	236190	

Reviewer: bosworthh, 08-Sep-2020 13:24:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

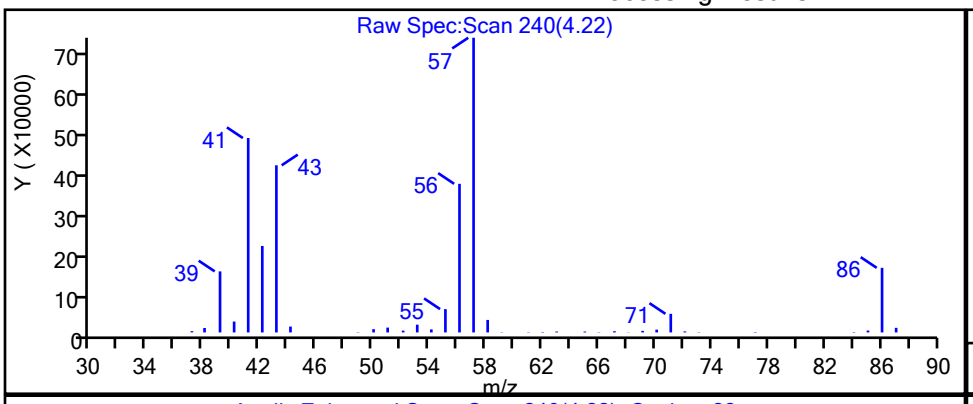
User Disabled Compound Report

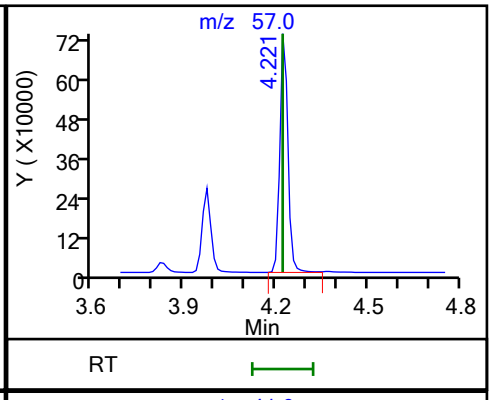
Eurofins TestAmerica, Canton

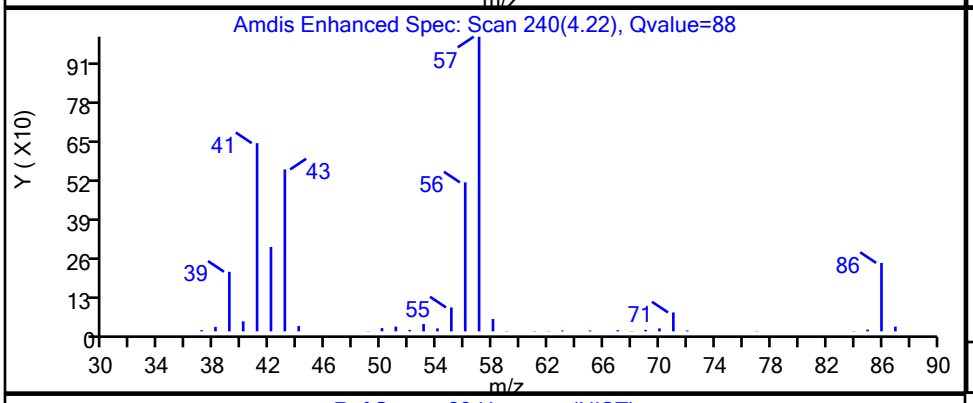
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

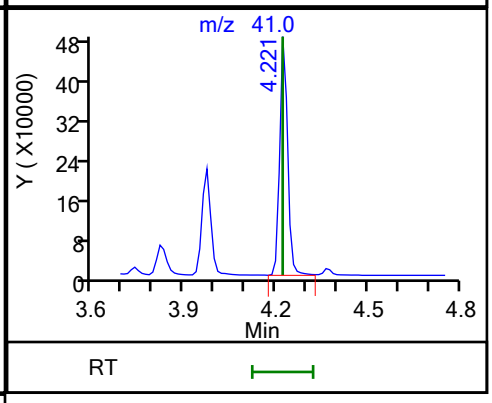
33 Hexane, CAS: 110-54-3

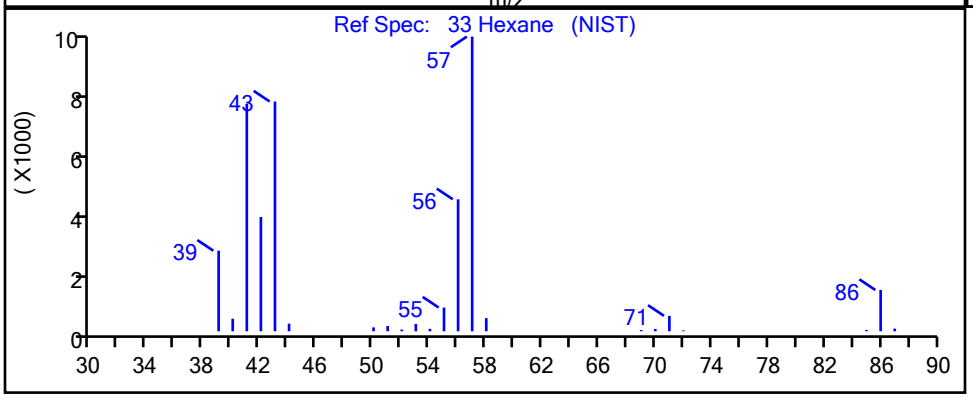
Processing Results











RT	Mass	Response	Amount
4.22	57.00	1355714	87.972259
4.22	41.00	878770	

Reviewer: bosworthh, 08-Sep-2020 15:23:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

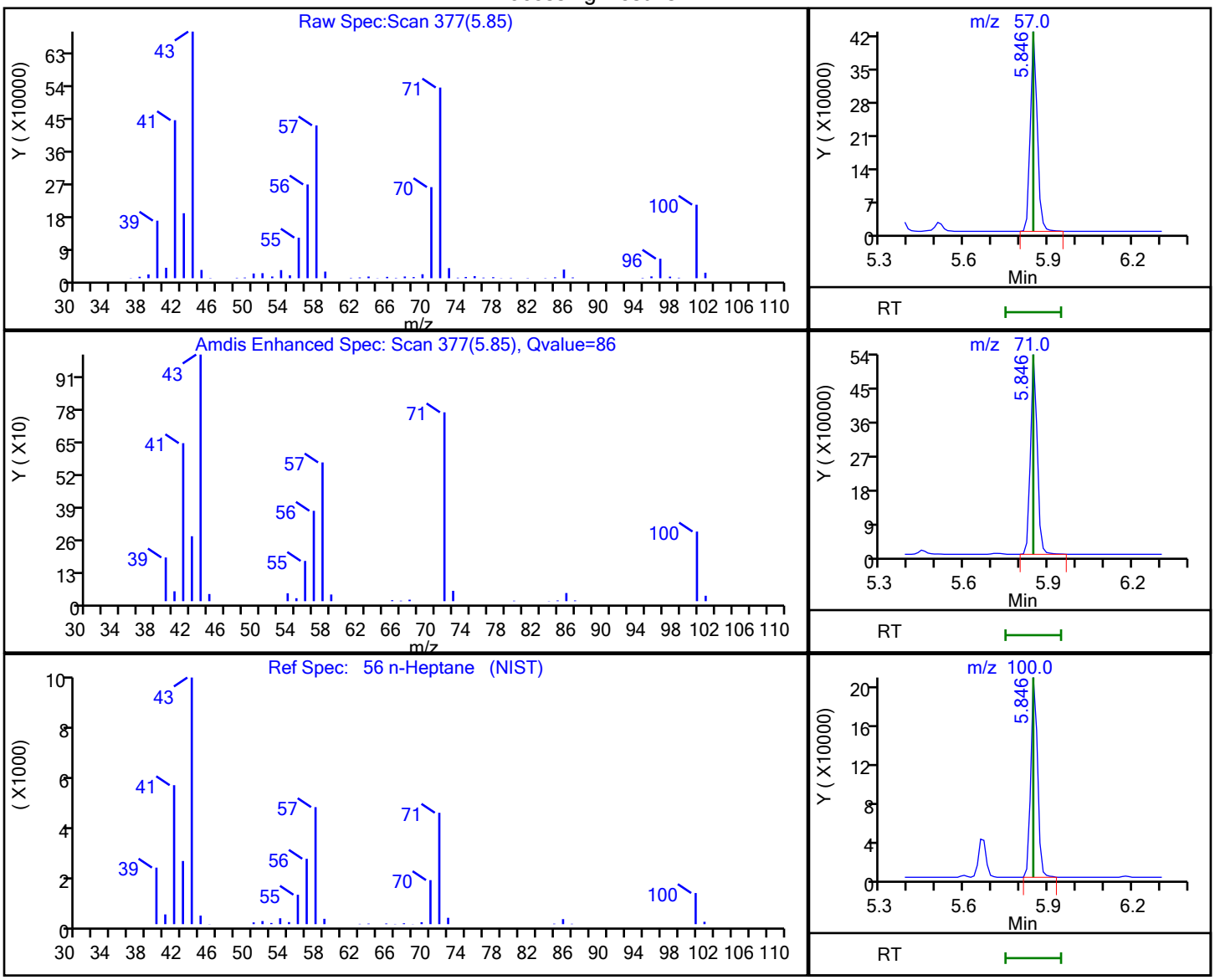
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.85	57.00	731209	87.870102
5.85	71.00	889376	
5.85	100.00	346803	

Reviewer: bosworthh, 08-Sep-2020 15:26:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Sep-2020 12:47:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-010
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:52:44 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 13:29:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	986335	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	763435	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	445572	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	663483	60.0	61.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.001	97	688950	60.0	59.2	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	2583965	60.0	63.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	905980	60.0	61.1	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	745131	60.0	61.2	
10 Chloromethane	50	1.909	1.908	0.001	99	871361	60.0	56.0	
11 Vinyl chloride	62	2.027	2.027	0.000	98	1012197	60.0	60.7	
12 Butadiene	54	2.075	2.074	0.001	97	914827	60.0	62.2	
13 Bromomethane	94		2.359				ND	ND	U
14 Chloroethane	64	2.478	2.490	-0.012	99	548317	60.0	61.7	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	98	1137799	60.0	60.2	
16 Trichlorofluoromethane	101	2.750	2.750	0.000	99	1052482	60.0	63.0	
17 Ethyl ether	59	3.035	3.035	0.000	87	482766	60.0	61.4	
18 Acrolein	56	3.166	3.165	0.001	100	182892	300.0	310.9	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	97	613475	60.0	60.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	90	501383	60.0	63.0	
21 Acetone	58	3.308	3.308	0.000	100	93482	120.0	106.2	
23 Iodomethane	142	3.415	3.414	0.001	97	937946	60.0	60.1	
24 Carbon disulfide	76	3.474	3.474	0.000	99	1937057	60.0	59.4	
27 Methyl acetate	43	3.592	3.604	-0.012	96	723056	120.0	118.4	
26 3-Chloro-1-propene	41	3.616	3.616	0.000	86	804942	60.0	60.7	
28 Methylene Chloride	84	3.735	3.735	0.000	88	671839	60.0	56.0	
29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	452953	600.0	582.1	
30 Acrylonitrile	53	3.948	3.948	0.000	99	2146830	600.0	594.6	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	1791186	60.0	64.1	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	717027	60.0	59.9	
33 Hexane	57	4.221	4.221	0.000	89	812220	60.0	62.2	
35 Vinyl acetate	43	4.363	4.363	0.000	97	948886	60.0	59.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	1140699	60.0	61.7	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	97	137692	120.0	115.7	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	776002	60.0	60.8	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	89	1006523	60.0	63.4	
45 Chlorobromomethane	128	5.087	5.087	0.000	86	365325	60.0	60.6	
46 Tetrahydrofuran	42	5.087	5.087	0.000	82	278245	120.0	120.0	
47 Chloroform	83	5.158	5.158	0.000	93	1148977	60.0	60.2	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	1049551	60.0	62.3	
49 Cyclohexane	56	5.371	5.371	0.000	86	995055	60.0	63.1	
51 Carbon tetrachloride	117	5.442	5.442	0.000	91	946104	60.0	63.2	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	96	958880	60.0	64.1	
52 Isobutyl alcohol	41	5.502	5.502	0.000	95	341332	1500.0	1411.0	
54 Benzene	78	5.620	5.620	0.000	95	2804292	60.0	61.9	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	835597	60.0	60.8	
56 n-Heptane	57	5.846	5.845	0.001	90	449823	60.0	58.1	
58 Trichloroethene	130	6.178	6.178	0.000	94	825111	60.0	61.3	
60 Methylcyclohexane	83	6.379	6.391	-0.012	88	1145090	60.0	61.7	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	94	645329	60.0	62.7	
64 1,4-Dioxane	88	6.462	6.462	0.000	87	147449	1200.0	1220.0	
63 Dibromomethane	93	6.486	6.486	0.000	92	396385	60.0	61.1	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	860357	60.0	63.0	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	92	815405	120.0	128.2	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	1094811	60.0	65.3	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	93	851990	120.0	123.0	
70 Toluene	91	7.316	7.316	0.000	99	3011770	60.0	62.9	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	97	996267	60.0	66.8	
72 Ethyl methacrylate	69	7.541	7.541	0.000	86	724838	60.0	64.8	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	580728	60.0	63.5	
75 Tetrachloroethene	164	7.779	7.778	0.000	97	690225	60.0	64.3	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	1027994	60.0	65.0	
76 2-Hexanone	43	7.873	7.873	0.000	94	577473	120.0	121.3	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	685086	60.0	67.3	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	607659	60.0	65.1	
82 Chlorobenzene	112	8.620	8.620	0.000	97	2024322	60.0	61.7	
84 Ethylbenzene	106	8.703	8.703	0.000	98	1123177	60.0	62.9	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	94	736691	60.0	67.8	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	1392681	60.0	63.5	
86 o-Xylene	106	9.190	9.201	-0.011	96	1350111	60.0	64.5	
87 Styrene	104	9.213	9.213	0.000	95	2260683	60.0	65.6	
88 Bromoform	173	9.391	9.403	-0.012	98	460205	60.0	66.3	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	3456206	60.0	64.7	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	678721	60.0	59.7	
93 Bromobenzene	156	9.866	9.865	0.001	89	901413	60.0	61.1	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	74	197195	60.0	60.7	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	83	237185	60.0	59.1	
96 N-Propylbenzene	120	9.949	9.949	0.001	98	1035010	60.0	62.2	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	866639	60.0	61.8	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	95	2849609	60.0	63.3	
100 4-Chlorotoluene	126	10.162	10.174	-0.012	96	895912	60.0	61.8	
102 tert-Butylbenzene	119	10.435	10.447	-0.012	91	2557650	60.0	62.0	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	2854633	60.0	64.4	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	3729613	60.0	63.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.790	0.001	98	1739274	60.0	61.5	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	3319699	60.0	64.9	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	1727570	60.0	60.5	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	2805692	60.0	64.5	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	1599122	60.0	61.1	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	93	160845	60.0	62.3	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	975744	60.0	65.4	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	486539	60.0	64.2	
117 Naphthalene	128	13.150	13.150	0.000	96	2137279	60.0	64.0	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	95	825636	60.0	61.8	
S 134 Trihalomethanes, Total	1				0		240.0	256.8	
S 158 Total BTEX	1				0		300.0	315.8	
S 131 1,2-Dichloroethene, Total	96				0			120.7	
S 132 1,3-Dichloropropene, Total	75				0			132.1	
S 133 Xylenes, Total	106				0		120.0	128.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00353	Amount Added:	48.00	Units: uL
vmarolistdw_00359	Amount Added:	48.00	Units: uL
vmrprimw_00402	Amount Added:	48.00	Units: uL
vm50ss_00417	Amount Added:	48.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

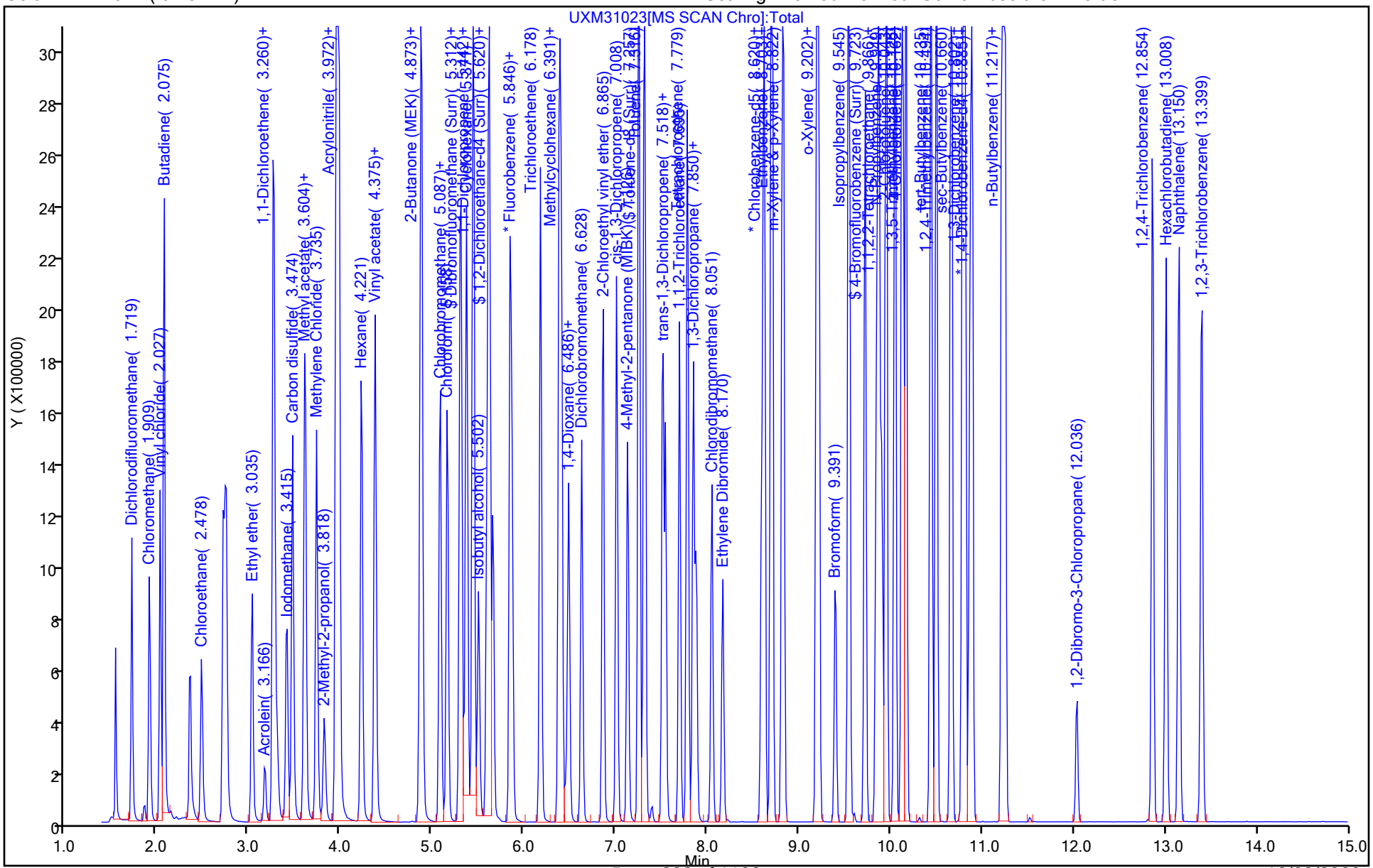
Report Date: 08-Sep-2020 15:52:46 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D

Injection Date:	08-Sep-2020 12:47:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L6			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

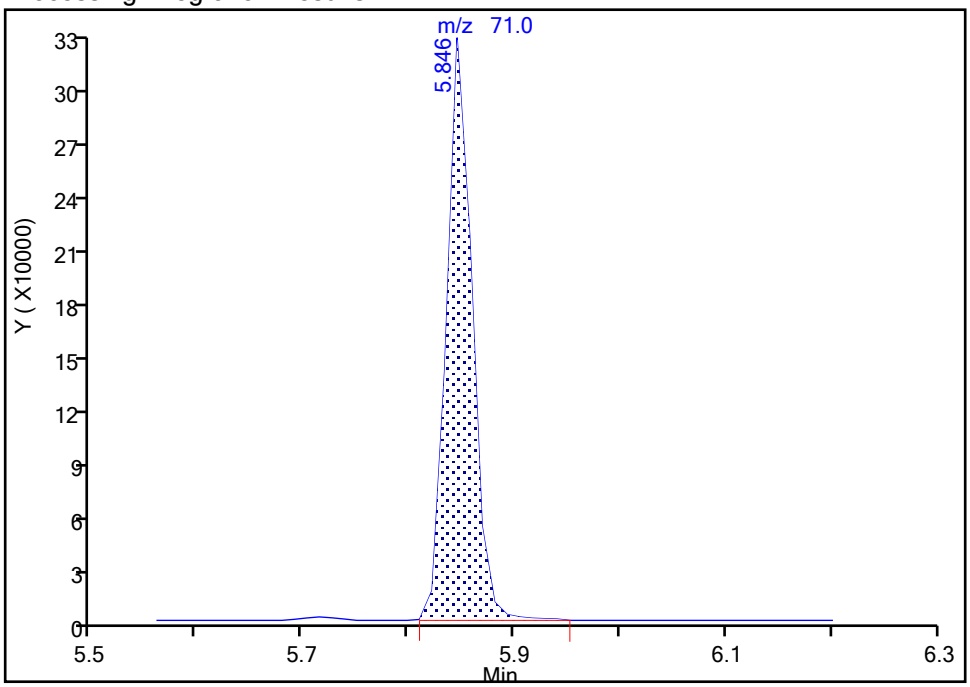
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Injection Date: 08-Sep-2020 12:47:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Signal: 2

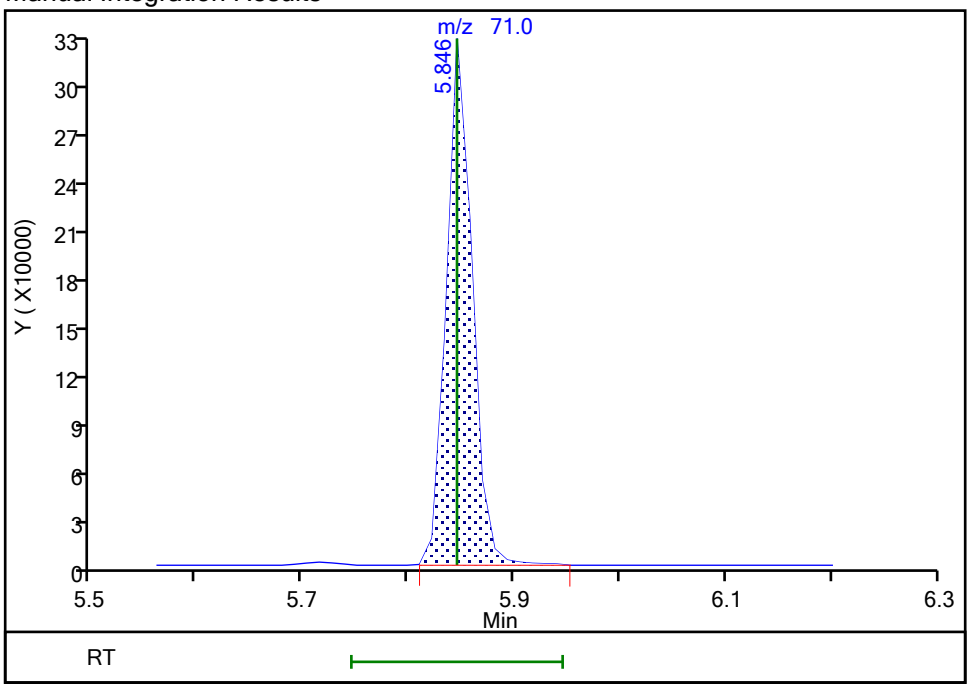
Processing Integration Results

RT: 5.85
Area: 542991
Amount: 58.057004
Amount Units: ug/l



Manual Integration Results

RT: 5.85
Area: 542991
Amount: 58.057004
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:27:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

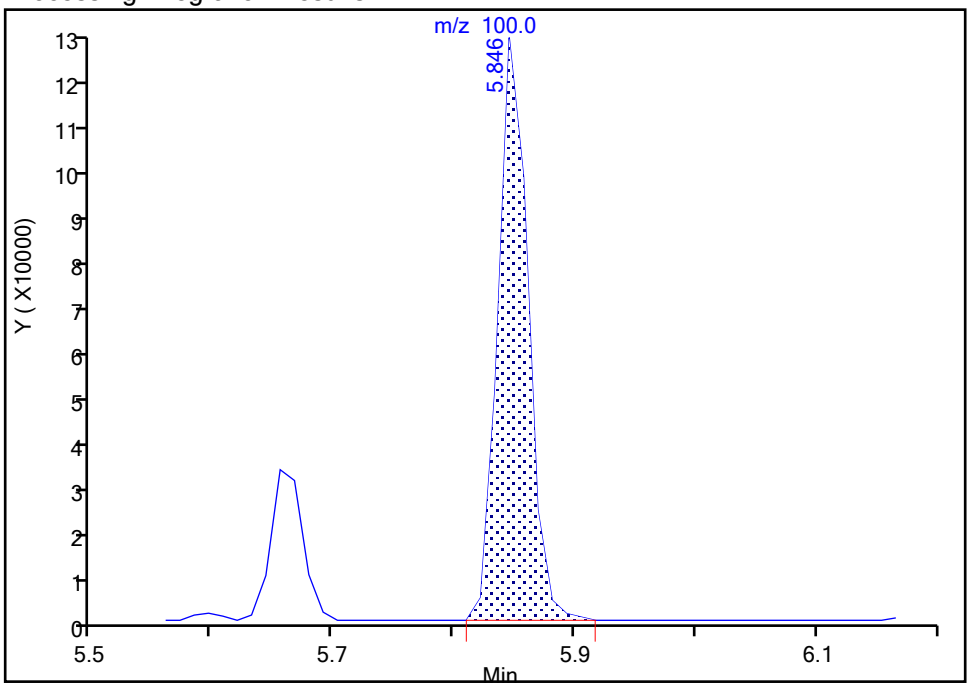
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Injection Date: 08-Sep-2020 12:47:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Signal: 3

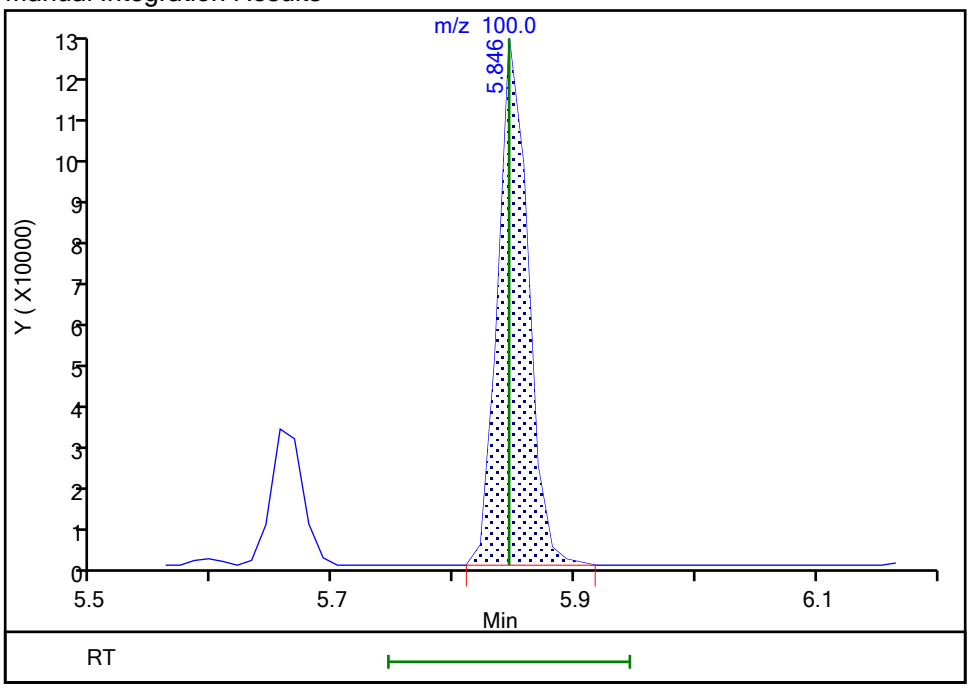
Processing Integration Results

RT: 5.85
Area: 209419
Amount: 58.057004
Amount Units: ug/l



Manual Integration Results

RT: 5.85
Area: 209419
Amount: 58.057004
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:27:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

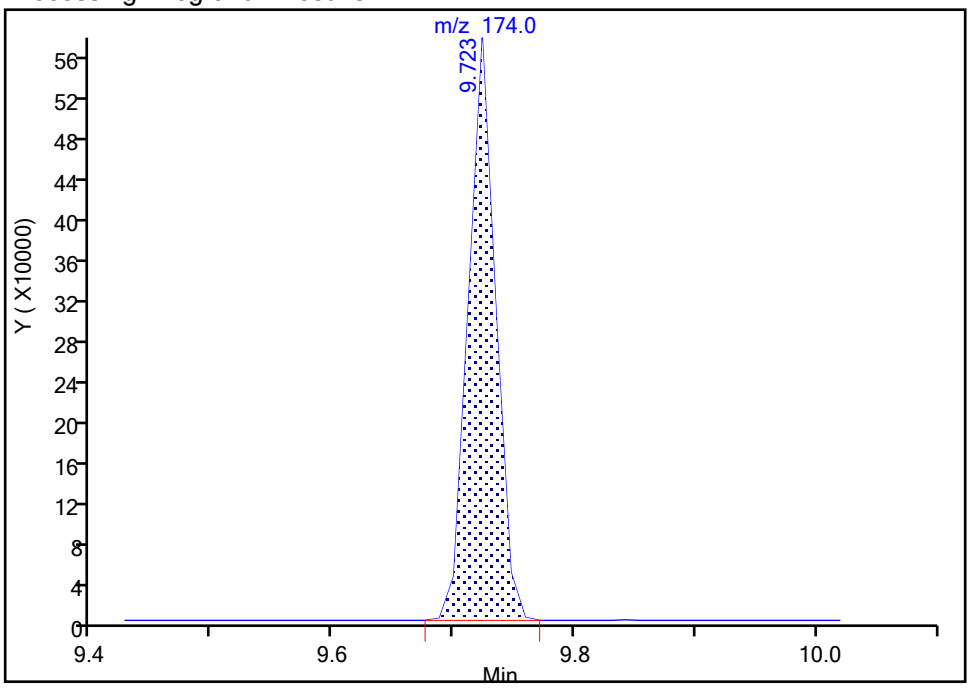
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Injection Date: 08-Sep-2020 12:47:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 2

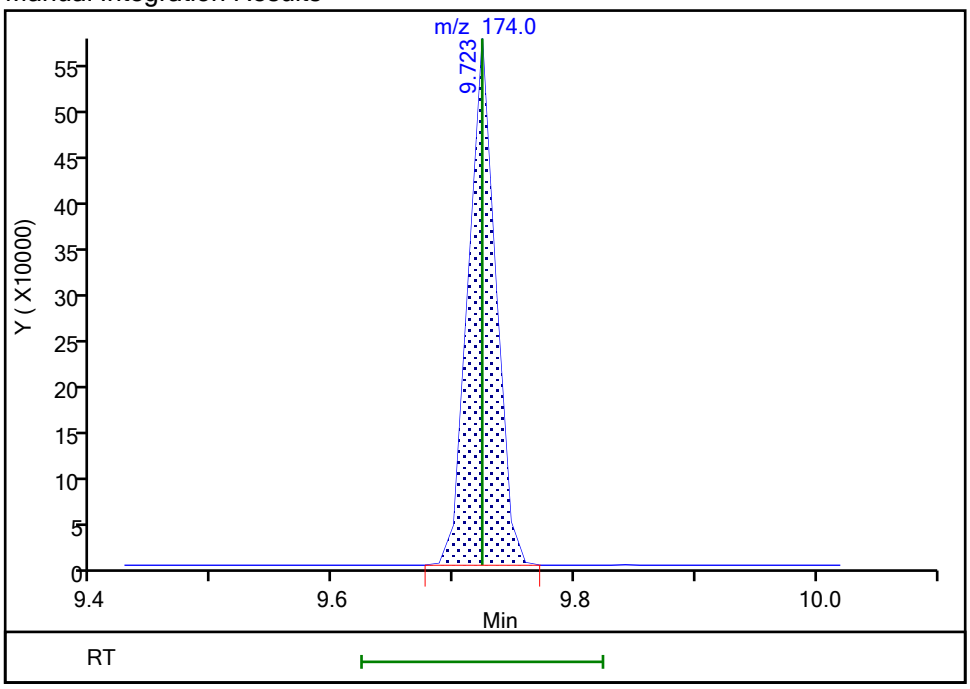
Processing Integration Results

RT: 9.72
Area: 901863
Amount: 62.462579
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 901863
Amount: 61.149722
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:46:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

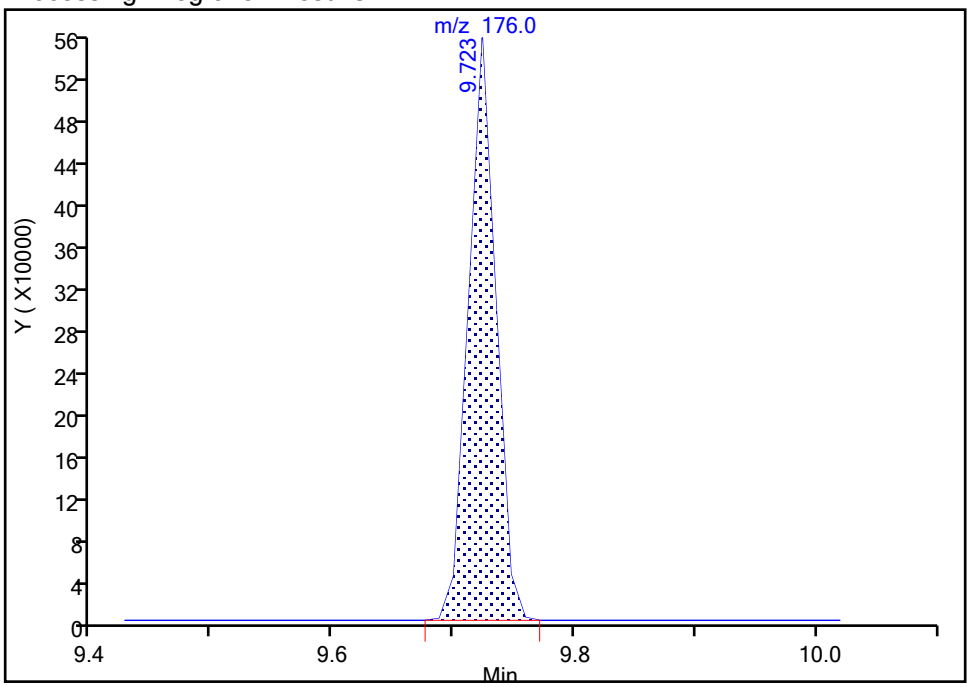
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Injection Date: 08-Sep-2020 12:47:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 3

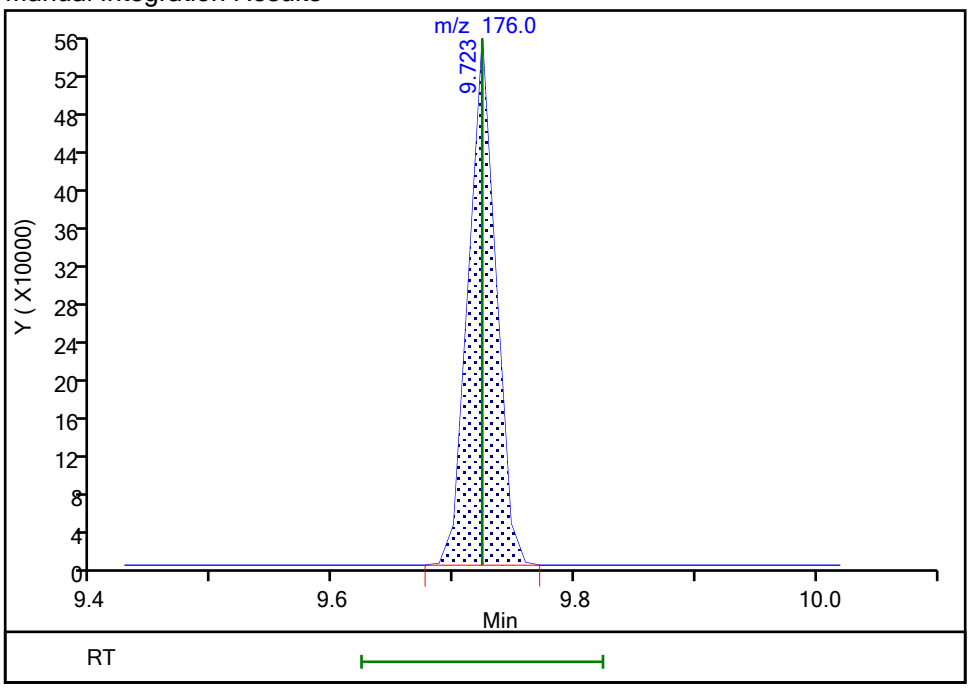
Processing Integration Results

RT: 9.72
Area: 880380
Amount: 62.462579
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 880380
Amount: 61.149722
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:46:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

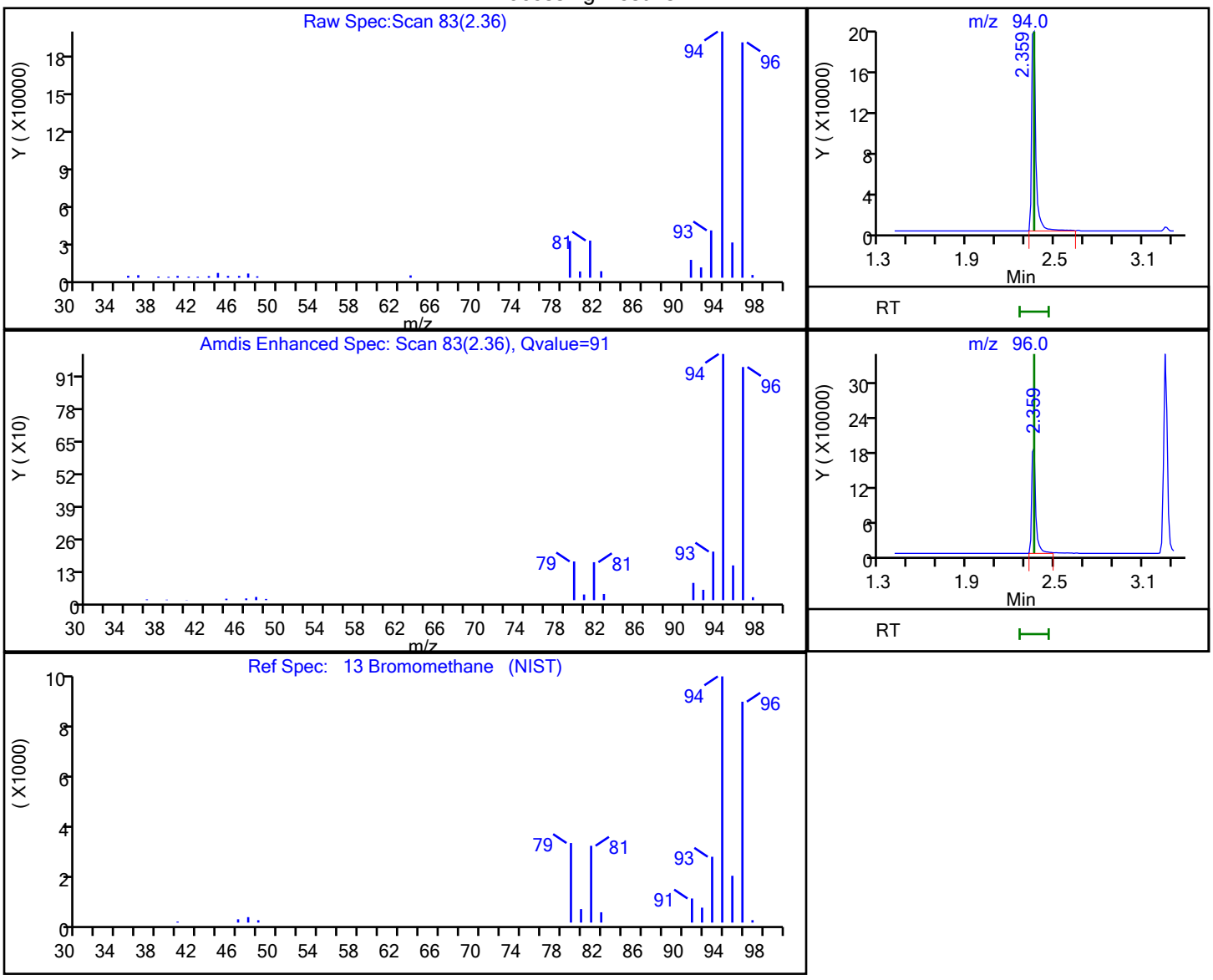
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D				
Injection Date:	08-Sep-2020 12:47:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L6				
Client ID:					
Operator ID:	001765	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

13 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.36	94.00	391184	45.926865
2.36	96.00	361405	

Reviewer: bosworthh, 08-Sep-2020 13:32:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31024.D
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Sep-2020 13:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-011
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:52:54 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 13:32:06

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	985207	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	82	768658	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	434281	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	451079	40.0	42.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.596	0.000	98	475834	40.0	40.9	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	1756542	40.0	42.5	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	614486	40.0	41.2	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	512634	40.0	42.1	
	10 Chloromethane	50	1.908	1.908	0.000	99	590076	40.0	38.0	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	679879	40.0	40.8	
	12 Butadiene	54	2.074	2.074	0.000	97	601757	40.0	41.0	
	13 Bromomethane	94	2.359	2.359	0.000	91	420133	40.0	39.3	
	14 Chloroethane	64	2.490	2.490	0.000	99	362824	40.0	40.9	
	15 Dichlorofluoromethane	67	2.715	2.715	0.000	97	763828	40.0	40.5	
	16 Trichlorofluoromethane	101	2.750	2.750	0.000	98	707684	40.0	42.4	
	17 Ethyl ether	59	3.035	3.035	0.000	87	336091	40.0	42.8	
	18 Acrolein	56	3.165	3.165	0.000	99	133174	200.0	226.6	
	19 1,1-Dichloroethene	96	3.260	3.260	0.000	97	412233	40.0	40.8	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	344047	40.0	43.3	
	21 Acetone	58	3.308	3.308	0.000	100	68698	80.0	78.1	
	23 Iodomethane	142	3.414	3.414	0.000	97	607259	40.0	39.0	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	1308981	40.0	40.2	
	27 Methyl acetate	43	3.604	3.604	0.000	96	532525	80.0	87.3	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	86	543714	40.0	41.0	
	28 Methylene Chloride	84	3.735	3.735	0.000	88	459897	40.0	38.4	
	29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	341990	400.0	440.0	
	30 Acrylonitrile	53	3.948	3.948	0.000	99	1561999	400.0	433.1	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	1247519	40.0	44.7	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	481658	40.0	40.3	
	33 Hexane	57	4.221	4.221	0.000	89	583618	40.0	44.7	
	35 Vinyl acetate	43	4.363	4.363	0.000	97	663154	40.0	41.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	764973	40.0	41.4	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	98627	80.0	83.3	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	526609	40.0	41.3	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	88	673786	40.0	42.5	
45 Chlorobromomethane	128	5.087	5.087	0.000	88	249202	40.0	41.4	
46 Tetrahydrofuran	42	5.087	5.087	0.000	83	206722	80.0	89.3	
47 Chloroform	83	5.158	5.158	0.000	93	780869	40.0	40.9	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	704006	40.0	41.8	
49 Cyclohexane	56	5.371	5.371	0.000	85	675623	40.0	42.9	
51 Carbon tetrachloride	117	5.442	5.442	0.000	91	631395	40.0	42.2	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	638498	40.0	42.7	
52 Isobutyl alcohol	41	5.502	5.502	0.000	93	254808	1000.0	1056.3	
54 Benzene	78	5.620	5.620	0.000	96	1901286	40.0	42.0	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	574817	40.0	41.9	
56 n-Heptane	57	5.845	5.845	0.000	87	333099	40.0	42.1	
58 Trichloroethene	130	6.178	6.178	0.000	95	556593	40.0	41.4	
60 Methylcyclohexane	83	6.391	6.391	0.000	87	786565	40.0	42.4	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	440298	40.0	42.8	
64 1,4-Dioxane	88	6.462	6.462	0.000	87	109037	800.0	903.2	
63 Dibromomethane	93	6.486	6.486	0.000	90	271437	40.0	41.9	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	577147	40.0	42.3	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	567444	80.0	89.3	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	741413	40.0	44.3	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	628003	80.0	90.8	
70 Toluene	91	7.316	7.316	0.000	99	2039743	40.0	42.3	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	96	673884	40.0	44.9	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	510420	40.0	45.3	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	400018	40.0	43.5	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	458925	40.0	42.4	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	706289	40.0	44.3	
76 2-Hexanone	43	7.873	7.873	0.000	94	429724	80.0	89.7	
78 Chlorodibromomethane	129	8.051	8.051	0.000	90	457254	40.0	44.6	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	419853	40.0	44.6	
82 Chlorobenzene	112	8.620	8.620	0.000	97	1361605	40.0	41.2	
84 Ethylbenzene	106	8.703	8.703	0.000	97	756865	40.0	42.1	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	97	488684	40.0	44.7	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	941488	40.0	42.7	
86 o-Xylene	106	9.201	9.201	0.000	95	891801	40.0	42.3	
87 Styrene	104	9.213	9.213	0.000	95	1513984	40.0	43.6	
88 Bromoform	173	9.403	9.403	0.000	98	311415	40.0	44.6	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	2308401	40.0	42.9	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	478558	40.0	43.2	
93 Bromobenzene	156	9.865	9.865	0.000	90	604593	40.0	42.0	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	76	136003	40.0	42.9	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	167810	40.0	42.9	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	692257	40.0	42.7	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	577725	40.0	42.3	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	1892509	40.0	43.1	
100 4-Chlorotoluene	126	10.174	10.174	0.000	95	607272	40.0	43.0	
102 tert-Butylbenzene	119	10.447	10.447	0.000	90	1704932	40.0	42.4	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	1876870	40.0	43.4	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	2482909	40.0	43.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.790	10.790	0.000	98	1147861	40.0	41.6	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	2177630	40.0	43.7	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	95	1147309	40.0	41.2	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	1851941	40.0	43.7	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	1074224	40.0	42.1	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	92	112988	40.0	44.9	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	633734	40.0	43.6	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	323865	40.0	43.8	
117 Naphthalene	128	13.150	13.150	0.000	96	1472308	40.0	45.2	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	95	566895	40.0	43.5	
S 134 Trihalomethanes, Total	1				0		160.0	172.4	
S 158 Total BTEX	1				0		200.0	211.4	
S 131 1,2-Dichloroethene, Total	96				0			81.6	
S 132 1,3-Dichloropropene, Total	75				0			89.1	
S 133 Xylenes, Total	106				0		80.0	85.0	

Reagents:

vmrgas_00353	Amount Added:	32.00	Units: uL
vmarolistdw_00359	Amount Added:	32.00	Units: uL
vmrprimw_00402	Amount Added:	32.00	Units: uL
vm50ss_00417	Amount Added:	32.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

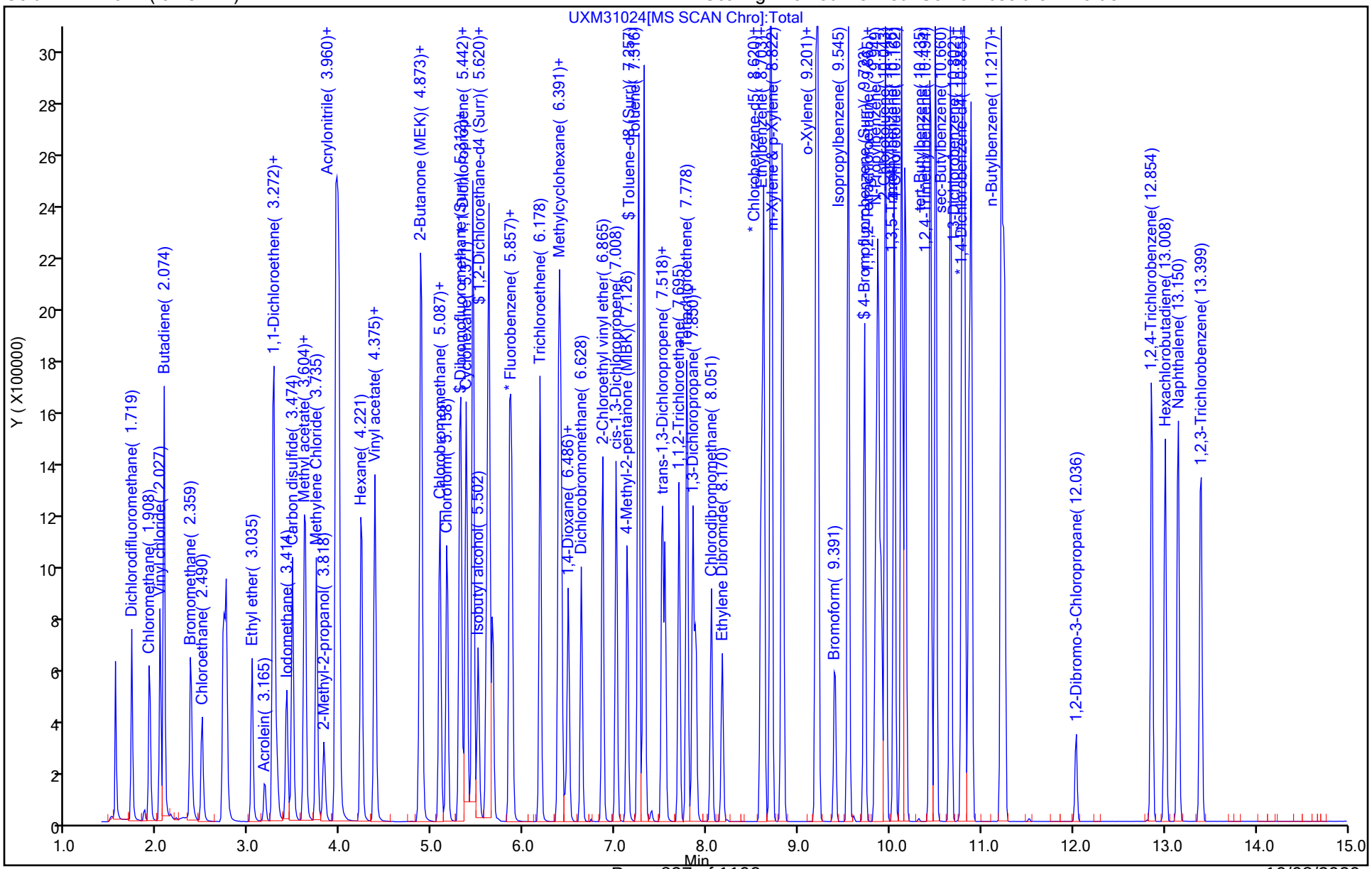
Report Date: 08-Sep-2020 15:52:56 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31024.D

Injection Date:	08-Sep-2020 13:12:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L5			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31025.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 08-Sep-2020 13:36:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-012
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:02 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 13:55:01

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	955305	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	743399	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	412806	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	205047	20.0	19.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	0.000	98	211750	20.0	18.8	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	798835	20.0	20.0	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	96	282170	20.0	19.6	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	227765	20.0	19.3	
	10 Chloromethane	50	1.909	1.909	0.000	99	274711	20.0	18.2	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	313862	20.0	19.4	
	12 Butadiene	54	2.075	2.075	0.000	98	276064	20.0	19.4	
	13 Bromomethane	94	2.371	2.371	0.000	91	186631	20.0	18.0	
	14 Chloroethane	64	2.490	2.490	0.000	99	158483	20.0	18.4	
	15 Dichlorofluoromethane	67	2.727	2.727	0.000	97	351184	20.0	19.2	
	16 Trichlorofluoromethane	101	2.750	2.750	0.000	98	318731	20.0	19.7	
	17 Ethyl ether	59	3.035	3.035	0.000	87	150301	20.0	19.7	
	18 Acrolein	56	3.177	3.177	0.000	99	54891	100.0	96.3	
	19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	191182	20.0	19.5	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	159259	20.0	20.6	
	21 Acetone	58	3.308	3.308	0.000	100	28725	40.0	33.7	
	23 Iodomethane	142	3.415	3.415	0.000	97	280739	20.0	18.6	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	616385	20.0	19.5	
	27 Methyl acetate	43	3.604	3.604	0.000	95	219369	40.0	37.1	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	85	248783	20.0	19.4	
	28 Methylene Chloride	84	3.735	3.735	0.000	88	209370	20.0	18.0	
	29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	135048	200.0	179.2	
	30 Acrylonitrile	53	3.948	3.948	0.000	99	664569	200.0	190.0	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	93	542453	20.0	20.0	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	224002	20.0	19.3	
	33 Hexane	57	4.221	4.221	0.000	88	257886	20.0	20.4	
	35 Vinyl acetate	43	4.363	4.363	0.000	97	274666	20.0	17.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	351386	20.0	19.6	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	38988	40.0	34.6	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	243716	20.0	19.7	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	87	306107	20.0	19.9	
45 Chlorobromomethane	128	5.087	5.087	0.000	86	117007	20.0	20.0	
46 Tetrahydrofuran	42	5.087	5.087	0.000	84	85989	40.0	38.3	
47 Chloroform	83	5.158	5.158	0.000	93	363463	20.0	19.7	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	324837	20.0	19.9	
49 Cyclohexane	56	5.371	5.371	0.000	85	310680	20.0	20.4	
51 Carbon tetrachloride	117	5.442	5.442	0.000	91	284754	20.0	19.6	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	293279	20.0	20.2	
52 Isobutyl alcohol	41	5.502	5.502	0.000	92	100513	500.0	434.0	
54 Benzene	78	5.620	5.620	0.000	95	868256	20.0	19.8	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	260130	20.0	19.5	
56 n-Heptane	57	5.846	5.846	0.000	84	163268	20.0	19.4	
58 Trichloroethene	130	6.178	6.178	0.000	94	255094	20.0	19.6	
60 Methylcyclohexane	83	6.391	6.391	0.000	87	353700	20.0	19.7	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	200726	20.0	20.1	
64 1,4-Dioxane	88	6.462	6.462	0.000	89	42478	400.0	362.9	
63 Dibromomethane	93	6.486	6.486	0.000	91	123177	20.0	19.6	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	259213	20.0	19.6	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	239979	40.0	38.9	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	326122	20.0	20.1	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	256926	40.0	38.3	
70 Toluene	91	7.316	7.316	0.000	98	938059	20.0	20.1	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	96	292377	20.0	20.1	
72 Ethyl methacrylate	69	7.541	7.541	0.000	85	216473	20.0	19.9	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	89	180594	20.0	20.3	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	206410	20.0	19.7	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	85	314262	20.0	20.4	
76 2-Hexanone	43	7.873	7.873	0.000	94	177407	40.0	38.3	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	200173	20.0	20.2	
80 Ethylene Dibromide	107	8.170	8.170	0.000	98	186444	20.0	20.5	
82 Chlorobenzene	112	8.620	8.620	0.000	97	639571	20.0	20.0	
84 Ethylbenzene	106	8.703	8.703	0.000	98	347713	20.0	20.0	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	95	217609	20.0	20.6	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	432592	20.0	20.3	
86 o-Xylene	106	9.190	9.190	0.000	97	416898	20.0	20.4	
87 Styrene	104	9.213	9.213	0.000	95	693212	20.0	20.6	
88 Bromoform	173	9.403	9.403	0.000	98	127319	20.0	18.8	
89 Isopropylbenzene	105	9.545	9.545	0.000	94	1079601	20.0	20.7	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	212748	20.0	20.2	
93 Bromobenzene	156	9.866	9.866	0.000	90	273875	20.0	20.0	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	75	58600	20.0	19.5	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	80	74238	20.0	20.0	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	323520	20.0	21.0	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	267505	20.0	20.6	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	876543	20.0	21.0	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	278802	20.0	20.8	
102 tert-Butylbenzene	119	10.435	10.435	0.000	90	790282	20.0	20.7	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	874333	20.0	21.3	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	1148815	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	0.000	98	519642	20.0	19.8	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	1009090	20.0	21.3	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	519200	20.0	19.6	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	843589	20.0	20.9	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	484748	20.0	20.0	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	90	44593	20.0	18.7	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	277363	20.0	20.1	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	97	139998	20.0	19.9	
117 Naphthalene	128	13.150	13.150	0.000	96	611384	20.0	19.8	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	96	236399	20.0	19.1	
S 134 Trihalomethanes, Total	1				0		80.0	78.3	
S 158 Total BTEX	1				0		100.0	100.6	
S 133 Xylenes, Total	106				0		40.0	40.7	

Reagents:

vmrgas_00353	Amount Added:	16.00	Units: uL
vmarolistdw_00359	Amount Added:	16.00	Units: uL
vmrprimw_00402	Amount Added:	16.00	Units: uL
vm50ss_00417	Amount Added:	16.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

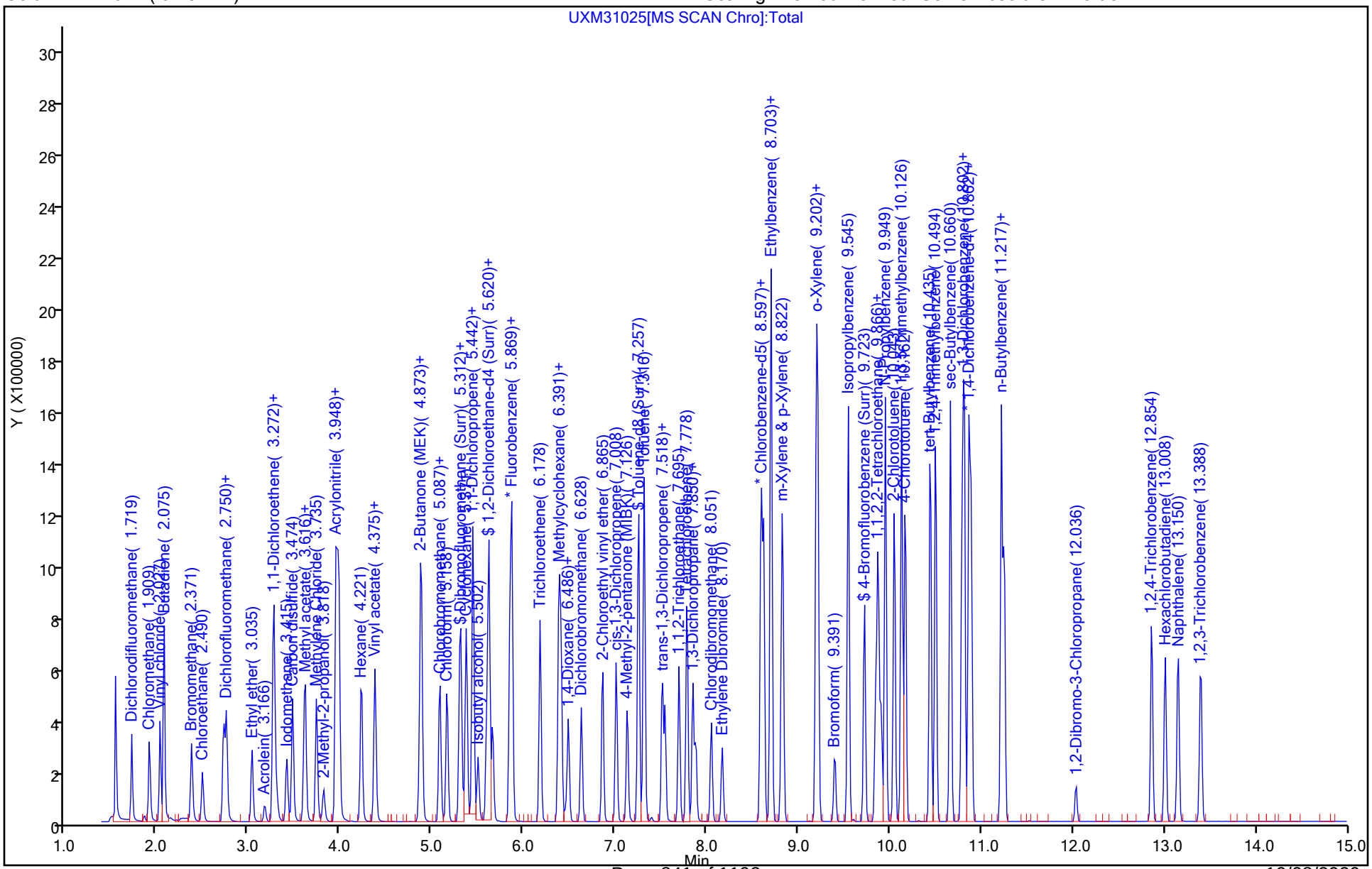
Report Date: 08-Sep-2020 15:53:04 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31025.D

Injection Date:	08-Sep-2020 13:36:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICIS L4			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31026.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Sep-2020 14:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-013
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:11 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 14:27:51

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	949906	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	83	754124	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	410385	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	104187	10.0	10.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.597	-0.001	97	113309	10.0	10.1	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	410525	10.0	10.1	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	95	146317	10.0	10.0	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	126306	10.0	10.8	
	10 Chloromethane	50	1.908	1.909	-0.001	98	149665	10.0	10.0	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	168014	10.0	10.5	
	12 Butadiene	54	2.075	2.075	-0.001	97	147574	10.0	10.4	
	13 Bromomethane	94	2.371	2.371	0.000	90	95953	10.0	9.30	
	14 Chloroethane	64	2.490	2.490	0.000	99	83551	10.0	9.76	
	15 Dichlorofluoromethane	67	2.727	2.727	0.000	97	182674	10.0	10.0	
	16 Trichlorofluoromethane	101	2.750	2.750	0.000	98	172726	10.0	10.7	
	17 Ethyl ether	59	3.035	3.035	0.000	87	77374	10.0	10.2	
	18 Acrolein	56	3.177	3.177	0.000	98	28530	50.0	50.4	
	19 1,1-Dichloroethene	96	3.272	3.260	0.012	98	97332	10.0	10.0	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	83204	10.0	10.8	
	21 Acetone	58	3.308	3.308	0.000	100	16639	20.0	19.6	
	23 Iodomethane	142	3.415	3.415	0.000	98	137997	10.0	9.19	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	313390	10.0	9.98	
	27 Methyl acetate	43	3.604	3.604	0.000	97	124579	20.0	21.2	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	85	125526	10.0	9.83	
	28 Methylene Chloride	84	3.735	3.735	0.000	87	110800	10.0	9.59	
	29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	77688	100.0	103.7	
	30 Acrylonitrile	53	3.948	3.948	0.000	99	360846	100.0	103.8	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	279149	10.0	10.4	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	115378	10.0	10.0	
	33 Hexane	57	4.221	4.221	0.000	90	137081	10.0	10.9	
	35 Vinyl acetate	43	4.363	4.363	0.000	97	128725	10.0	8.60	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	180676	10.0	10.1	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	97	22232	20.0	20.4	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	121706	10.0	9.90	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	88	152244	10.0	9.96	
45 Chlorobromomethane	128	5.087	5.087	0.000	88	60499	10.0	10.4	
46 Tetrahydrofuran	42	5.087	5.087	0.000	84	46517	20.0	20.8	
47 Chloroform	83	5.158	5.158	0.000	94	185173	10.0	10.1	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	167803	10.0	10.3	
49 Cyclohexane	56	5.371	5.371	0.000	84	161683	10.0	10.7	
51 Carbon tetrachloride	117	5.442	5.442	0.000	92	146275	10.0	10.1	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	148760	10.0	10.3	
52 Isobutyl alcohol	41	5.502	5.502	0.000	91	55676	250.0	245.0	
54 Benzene	78	5.620	5.620	0.000	95	442100	10.0	10.1	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	134627	10.0	10.2	
56 n-Heptane	57	5.846	5.846	0.000	85	100398	10.0	10.6	
58 Trichloroethene	130	6.178	6.178	0.000	94	130574	10.0	10.1	
60 Methylcyclohexane	83	6.391	6.391	0.000	88	183908	10.0	10.3	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	94	101634	10.0	10.3	
64 1,4-Dioxane	88	6.462	6.462	0.000	88	24666	200.0	211.9	
63 Dibromomethane	93	6.486	6.486	0.000	91	62006	10.0	9.92	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	131089	10.0	9.97	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	92	122410	20.0	20.0	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	163597	10.0	10.1	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	134958	20.0	20.2	
70 Toluene	91	7.316	7.316	0.000	99	479847	10.0	10.1	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	91	148347	10.0	10.1	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	105621	10.0	9.55	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	92657	10.0	10.3	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	104096	10.0	9.81	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	161106	10.0	10.3	
76 2-Hexanone	43	7.873	7.873	0.000	93	96295	20.0	20.5	
78 Chlorodibromomethane	129	8.051	8.051	0.000	90	99325	10.0	9.88	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	94969	10.0	10.3	
82 Chlorobenzene	112	8.620	8.620	0.000	97	325429	10.0	10.0	
84 Ethylbenzene	106	8.703	8.703	0.000	98	177845	10.0	10.1	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	95	108530	10.0	10.1	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	97	217767	10.0	10.1	
86 o-Xylene	106	9.201	9.190	0.011	95	206785	10.0	10.0	
87 Styrene	104	9.213	9.213	0.000	95	344743	10.0	10.1	
88 Bromoform	173	9.403	9.403	0.000	97	61865	10.0	9.03	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	542009	10.0	10.3	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	96	110519	10.0	10.6	
93 Bromobenzene	156	9.866	9.866	0.000	90	137415	10.0	10.1	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	73	30947	10.0	10.3	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	40174	10.0	10.9	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	160990	10.0	10.5	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	137252	10.0	10.6	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	442911	10.0	10.7	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	140726	10.0	10.5	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	395706	10.0	10.4	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	437820	10.0	10.7	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	579450	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	-0.001	98	257296	10.0	9.87	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	498636	10.0	10.6	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	264974	10.0	10.1	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	425819	10.0	10.6	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	243791	10.0	10.1	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	89	24251	10.0	10.2	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	134730	10.0	9.80	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	97	67962	10.0	9.73	
117 Naphthalene	128	13.150	13.150	0.000	96	314418	10.0	10.2	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	96	123648	10.0	10.0	
S 134 Trihalomethanes, Total	1				0		40.0	38.9	
S 158 Total BTEX	1				0		50.0	50.4	
S 131 1,2-Dichloroethene, Total	96				0			19.9	
S 132 1,3-Dichloropropene, Total	75				0			20.2	
S 133 Xylenes, Total	106				0		20.0	20.1	

Reagents:

vmrgas_00353	Amount Added:	8.00	Units: uL
vmarolistdw_00359	Amount Added:	8.00	Units: uL
vmrprimw_00402	Amount Added:	8.00	Units: uL
vm50ss_00417	Amount Added:	8.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

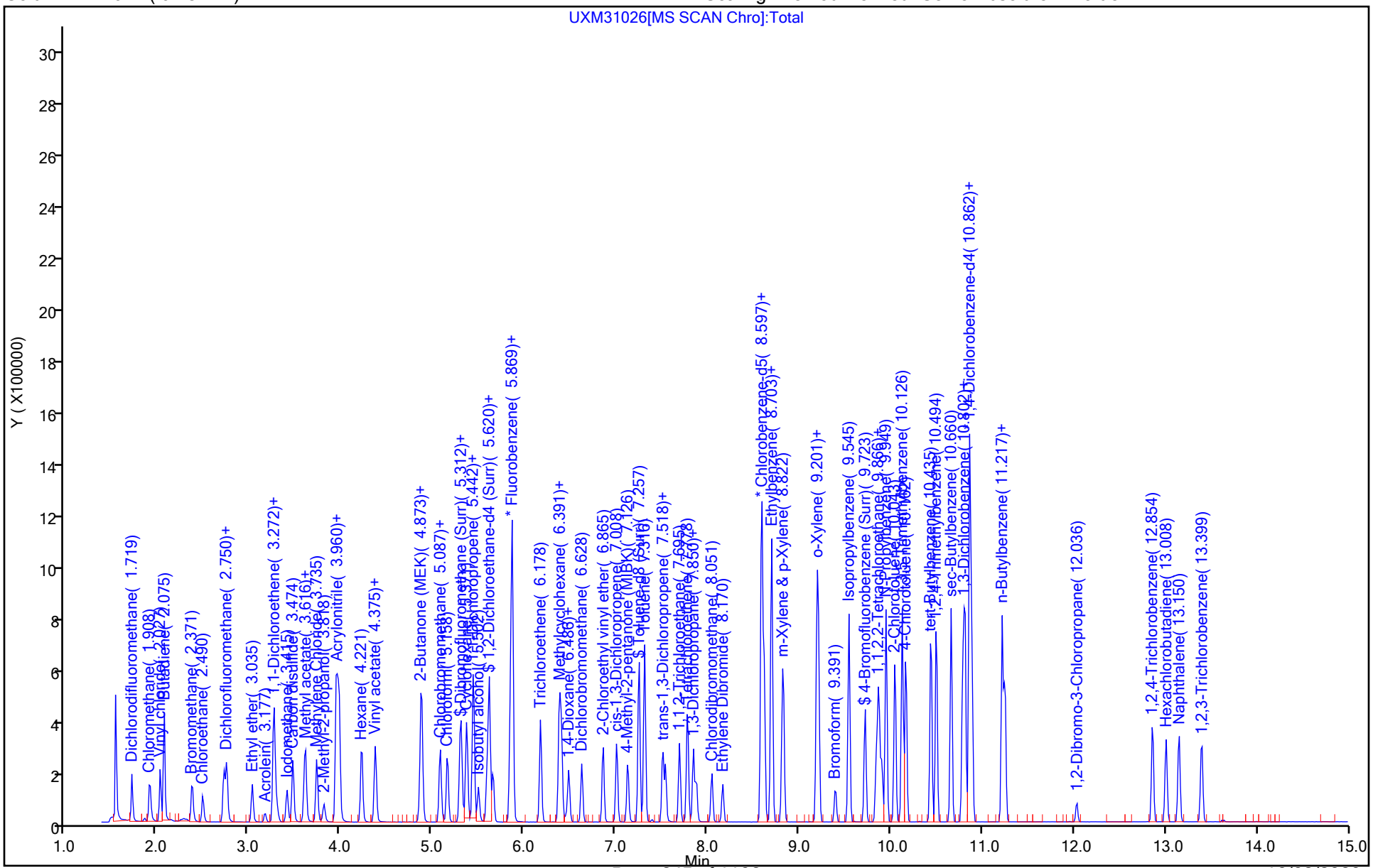
Report Date: 08-Sep-2020 15:53:13 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31026.D

Injection Date:	08-Sep-2020 14:01:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L3			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Sep-2020 14:26:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-014
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:20 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 14:50:04

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	857034	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	83	706605	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	380148	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	92	9504	1.00	1.02	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.597	-0.001	97	10645	1.00	1.05	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	91	35823	1.00	0.9429	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	91	13303	1.00	0.9701	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	97	9486	1.00	0.8962	
	10 Chloromethane	50	1.908	1.909	-0.001	99	15405	1.00	1.14	
	11 Vinyl chloride	62	2.027	2.027	0.000	97	14226	1.00	0.9811	
	12 Butadiene	54	2.074	2.075	-0.001	97	12580	1.00	0.9843	
	13 Bromomethane	94	2.383	2.371	0.012	89	9499	1.00	1.02	
	14 Chloroethane	64	2.489	2.490	-0.001	95	7624	1.00	0.9874	
	15 Dichlorofluoromethane	67	2.727	2.727	0.000	95	17183	1.00	1.05	
	16 Trichlorofluoromethane	101	2.762	2.750	0.012	98	13107	1.00	0.9034	
	17 Ethyl ether	59	3.035	3.035	0.000	86	5866	1.00	0.8581	
	18 Acrolein	56	3.177	3.177	0.000	97	2199	5.00	4.30	
	19 1,1-Dichloroethene	96	3.272	3.260	0.012	97	7991	1.00	0.9102	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	87	6055	1.00	0.8751	
	21 Acetone	58	3.308	3.308	0.000	98	1814	2.00	2.37	
	23 Iodomethane	142	3.414	3.415	-0.001	96	15454	1.00	1.14	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	28986	1.00	1.02	
	27 Methyl acetate	43	3.604	3.604	0.000	96	10468	2.00	1.97	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	85	12249	1.00	1.06	
	28 Methylene Chloride	84	3.735	3.735	0.000	86	12177	1.00	1.17	
	29 2-Methyl-2-propanol	59	3.818	3.818	0.000	96	6282	10.0	9.29	
	30 Acrylonitrile	53	3.948	3.948	0.000	97	31232	10.0	9.95	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	21006	1.00	0.8648	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	94	11126	1.00	1.07	
	33 Hexane	57	4.233	4.221	0.012	89	8335	1.00	0.7347	
	35 Vinyl acetate	43	4.375	4.363	0.012	51	8968	1.00	0.9755	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	94	16067	1.00	1.00	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	62	1042	2.00	2.15	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	11326	1.00	1.02	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	90	12827	1.00	0.9298	
45 Chlorobromomethane	128	5.087	5.087	-0.001	88	5242	1.00	1.00	
46 Tetrahydrofuran	42	5.087	5.087	-0.001	79	4187	2.00	2.08	
47 Chloroform	83	5.158	5.158	0.000	93	17409	1.00	1.05	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	13769	1.00	0.9399	
49 Cyclohexane	56	5.371	5.371	0.000	88	12004	1.00	0.8767	
51 Carbon tetrachloride	117	5.442	5.442	0.000	93	12330	1.00	0.9473	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	91	11408	1.00	0.8775	
52 Isobutyl alcohol	41	5.502	5.502	0.000	86	3530	25.0	23.9	
54 Benzene	78	5.620	5.620	0.000	96	36613	1.00	0.9301	
53 1,2-Dichloroethane	62	5.668	5.656	0.012	96	12009	1.00	1.01	
56 n-Heptane	57	5.869	5.846	0.023	79	29555	1.00	0.9000	
58 Trichloroethene	130	6.177	6.178	-0.001	94	10964	1.00	0.9374	
60 Methylcyclohexane	83	6.391	6.391	0.000	87	11948	1.00	0.7409	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	89	7887	1.00	0.8823	
64 1,4-Dioxane	88	6.462	6.462	0.000	16	1762	20.0	16.8	
63 Dibromomethane	93	6.486	6.486	0.000	94	5834	1.00	1.03	
65 Dichlorobromomethane	83	6.628	6.628	0.000	97	11545	1.00	0.9728	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	89	8476	2.00	1.53	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	13227	1.00	0.9081	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	92	9406	2.00	1.56	
70 Toluene	91	7.316	7.316	0.000	98	41109	1.00	0.9278	
71 trans-1,3-Dichloropropene	75	7.517	7.518	-0.001	92	11747	1.00	0.8505	
72 Ethyl methacrylate	69	7.541	7.541	0.000	79	7556	1.00	0.7295	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	87	8198	1.00	0.9692	
75 Tetrachloroethene	164	7.778	7.778	0.000	96	9324	1.00	0.9378	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	85	13393	1.00	0.9146	
76 2-Hexanone	43	7.885	7.873	0.012	92	7030	2.00	1.60	
78 Chlorodibromomethane	129	8.051	8.051	0.000	85	7995	1.00	0.8486	
80 Ethylene Dibromide	107	8.170	8.170	0.000	98	7438	1.00	0.8604	
82 Chlorobenzene	112	8.620	8.620	0.000	97	29312	1.00	0.9647	
84 Ethylbenzene	106	8.703	8.703	0.000	97	15435	1.00	0.9346	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	83	8594	1.00	0.8545	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	99	18486	1.00	0.9113	
86 o-Xylene	106	9.201	9.190	0.011	95	17828	1.00	0.9199	
87 Styrene	104	9.213	9.213	0.000	94	27678	1.00	0.8673	
88 Bromoform	173	9.403	9.403	0.000	93	5256	1.00	0.8185	
89 Isopropylbenzene	105	9.545	9.545	0.000	94	42462	1.00	0.8582	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	92	9414	1.00	0.9713	
93 Bromobenzene	156	9.865	9.866	-0.001	87	12472	1.00	0.99	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	41	2381	1.00	0.8587	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	81	3375	1.00	0.9850	
96 N-Propylbenzene	120	9.948	9.949	-0.001	98	13473	1.00	0.9496	
97 2-Chlorotoluene	126	10.043	10.043	0.000	97	11432	1.00	0.9556	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	95	34919	1.00	0.9095	
100 4-Chlorotoluene	126	10.174	10.162	0.012	95	11792	1.00	0.9535	
102 tert-Butylbenzene	119	10.447	10.435	0.012	91	33529	1.00	0.9526	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	95	32781	1.00	0.8666	
105 sec-Butylbenzene	105	10.660	10.660	0.000	92	47246	1.00	0.9348	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.790	10.791	-0.001	98	24087	1.00	1.00	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	39007	1.00	0.8936	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	24117	1.00	0.99	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	33115	1.00	0.8919	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	97	22847	1.00	1.02	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	1	1752	1.00	0.7960	
115 1,2,4-Trichlorobenzene	180	12.866	12.854	0.012	93	11531	1.00	0.9056	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	82	6447	1.00	1.00	
117 Naphthalene	128	13.150	13.150	0.000	95	25363	1.00	0.8898	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	93	11438	1.00	1.00	
S 134 Trihalomethanes, Total	1				0		4.00	3.69	
S 158 Total BTEX	1				0		5.00	4.62	
S 131 1,2-Dichloroethene, Total	96				0			2.09	
S 132 1,3-Dichloropropene, Total	75				0			1.76	
S 133 Xylenes, Total	106				0		2.00	1.83	

Reagents:

vmrgas_00353	Amount Added:	0.80	Units: uL
vmarolistdw_00359	Amount Added:	0.80	Units: uL
vmrprimw_00402	Amount Added:	0.80	Units: uL
vm50ss_00417	Amount Added:	0.80	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

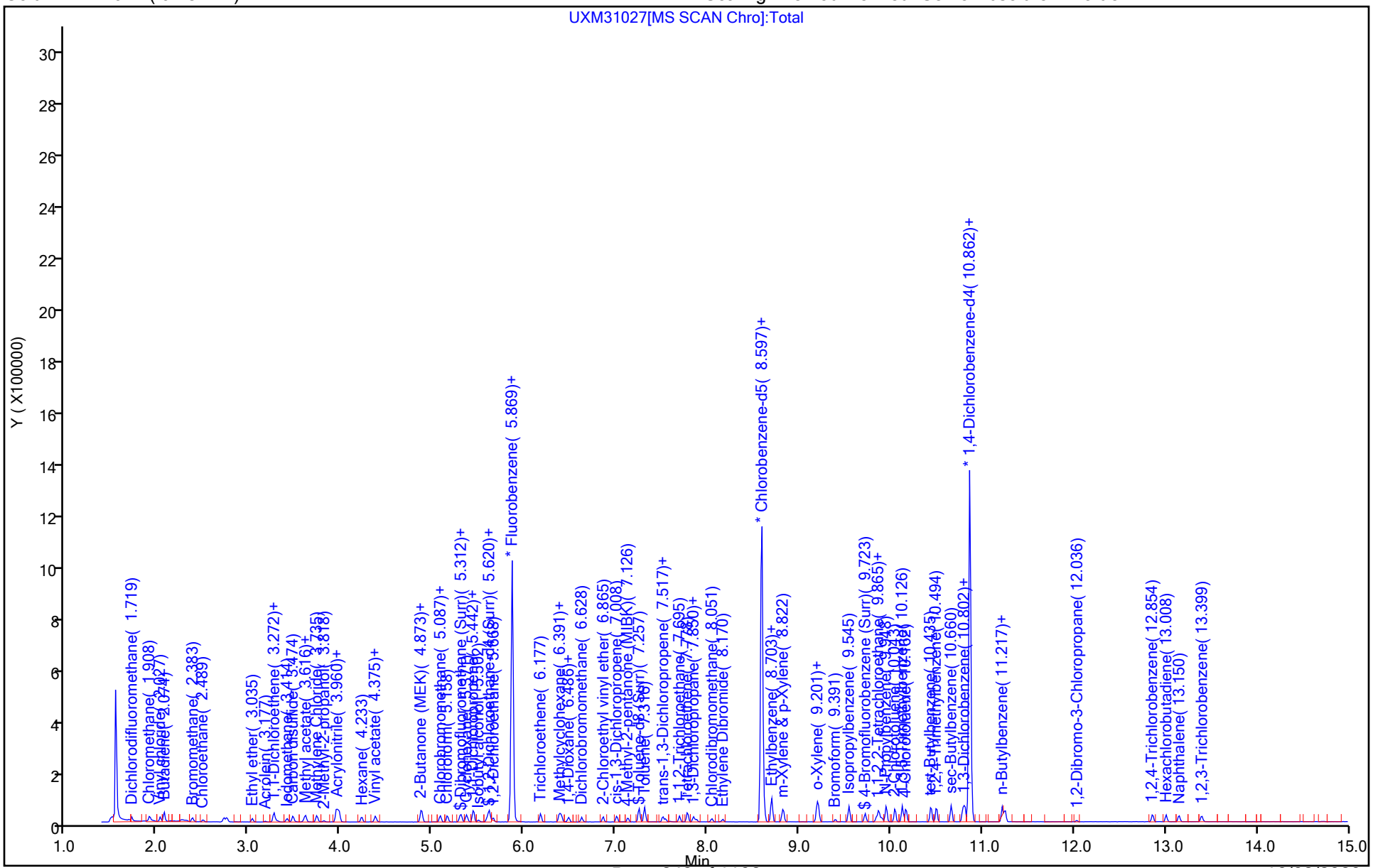
Report Date: 08-Sep-2020 15:53:21 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D

Injection Date:	08-Sep-2020 14:26:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L2			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

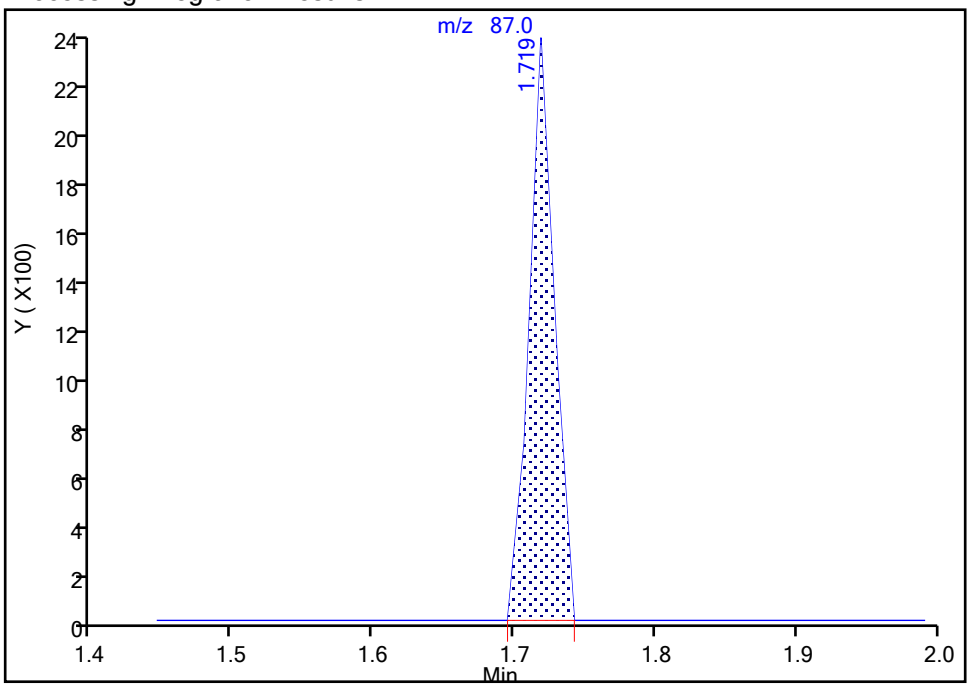
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D
Injection Date: 08-Sep-2020 14:26:30 Instrument ID: A3UX16
Lims ID: std8260 L2
Client ID:
Operator ID: 001765 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 2

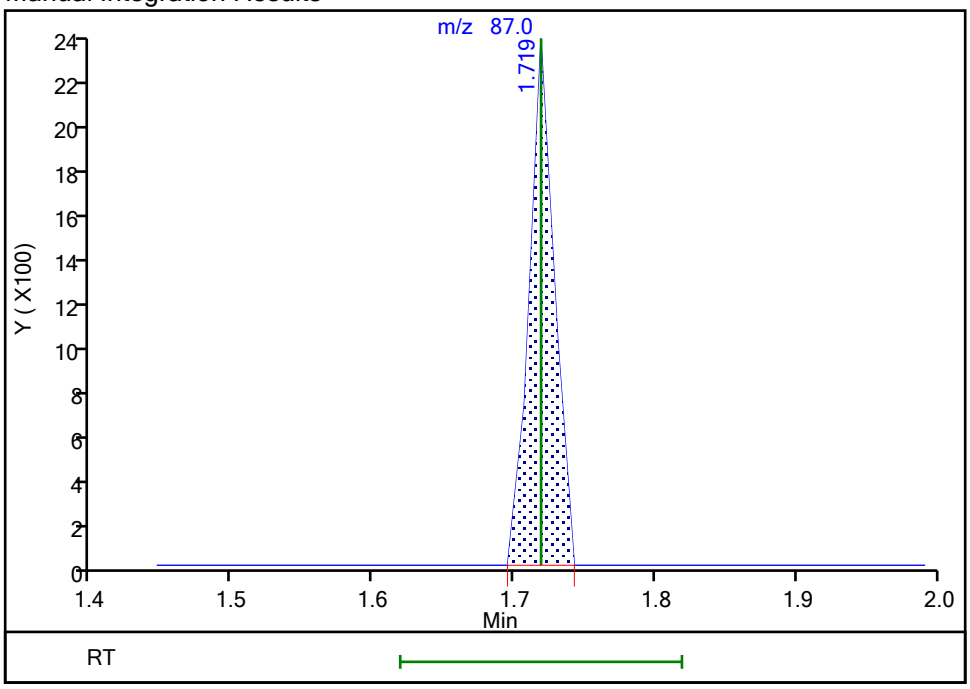
Processing Integration Results

RT: 1.72
Area: 2876
Amount: 0.896179
Amount Units: ug/l



Manual Integration Results

RT: 1.72
Area: 2876
Amount: 0.896179
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:39:24
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton

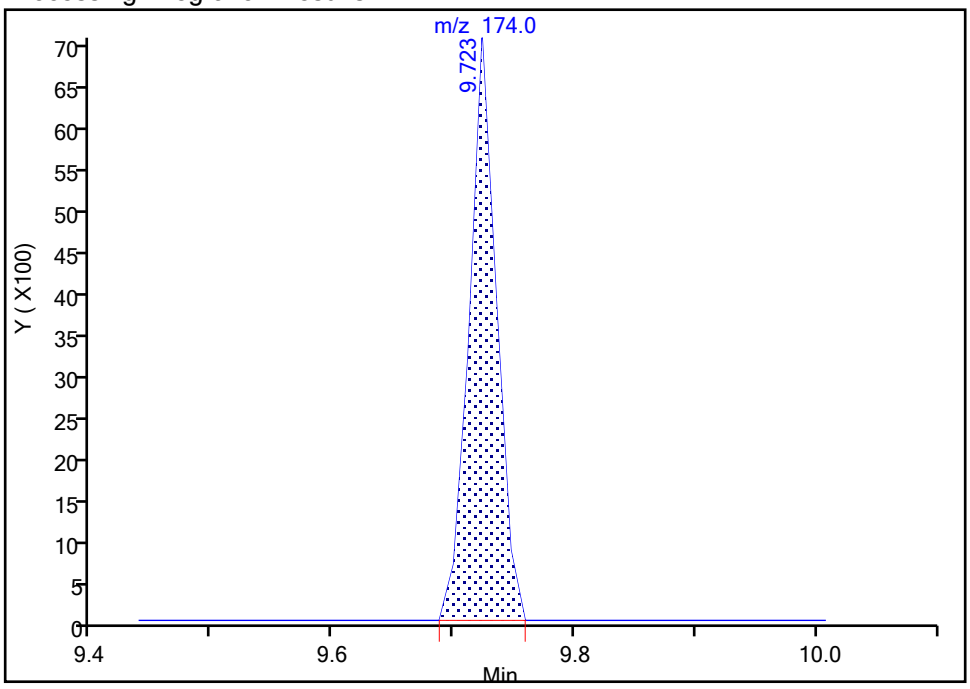
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D
Injection Date: 08-Sep-2020 14:26:30 Instrument ID: A3UX16
Lims ID: std8260 L2
Client ID:
Operator ID: 001765 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 2

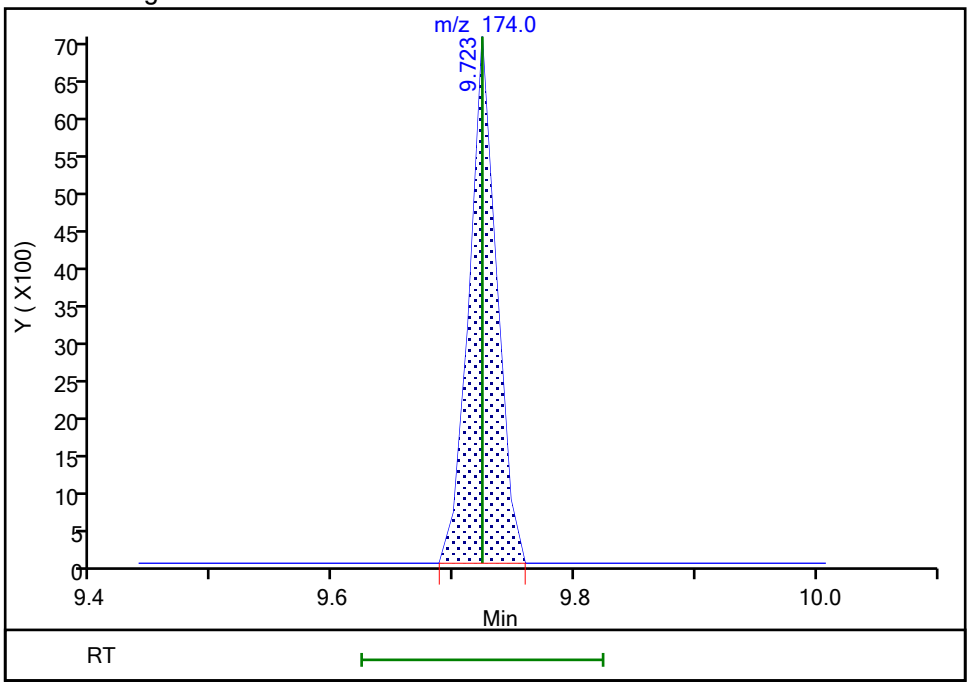
Processing Integration Results

RT: 9.72
Area: 11065
Amount: 0.970110
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 11065
Amount: 0.970110
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:41:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

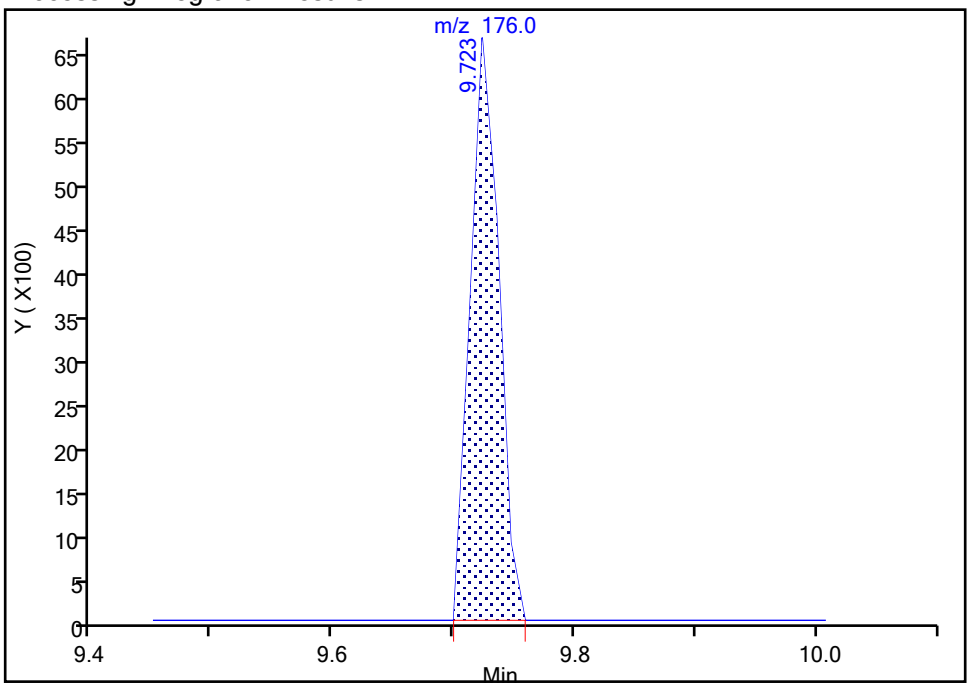
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D
Injection Date: 08-Sep-2020 14:26:30 Instrument ID: A3UX16
Lims ID: std8260 L2
Client ID:
Operator ID: 001765 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 3

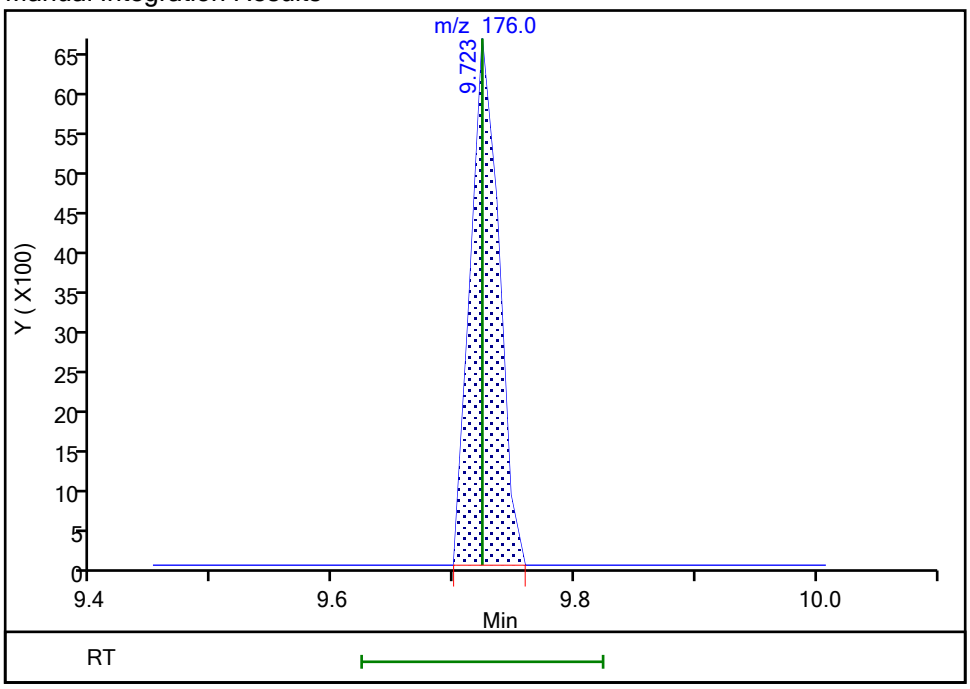
Processing Integration Results

RT: 9.72
Area: 10870
Amount: 0.970110
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 10870
Amount: 0.970110
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:41:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Sep-2020 14:50:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-015
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:27 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 15:23:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	841447	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	695225	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	385450	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	89	4221	0.5000	0.4602	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	0.000	95	4996	0.5000	0.5032	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	90	16446	0.5000	0.4400	
$ 7 4-Bromofluorobenzene (Surr)	95		9.723				ND	ND	U
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	97	4665	0.5000	0.4489	
10 Chloromethane	50	1.909	1.909	0.000	95	7957	0.5000	0.5997	
11 Vinyl chloride	62	2.027	2.027	0.000	94	7238	0.5000	0.5084	
12 Butadiene	54	2.075	2.075	0.000	94	5881	0.5000	0.4687	
13 Bromomethane	94	2.383	2.371	0.012	82	5345	0.5000	0.5847	
14 Chloroethane	64	2.501	2.490	0.011	93	3482	0.5000	0.4593	
15 Dichlorofluoromethane	67	2.727	2.727	0.000	95	8090	0.5000	0.5018	
16 Trichlorofluoromethane	101	2.751	2.750	0.000	97	6163	0.5000	0.4327	
17 Ethyl ether	59	3.035	3.035	0.000	82	3432	0.5000	0.5113	
18 Acrolein	56		3.177				ND	ND	MUa
19 1,1-Dichloroethene	96	3.272	3.260	0.012	91	4675	0.5000	0.5424	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	64	2542	0.5000	0.3742	
21 Acetone	58	3.308	3.308	0.000	98	885	1.00	1.18	
23 Iodomethane	142	3.415	3.415	0.000	97	7737	0.5000	0.5815	
24 Carbon disulfide	76	3.474	3.474	0.000	98	14385	0.5000	0.5174	
27 Methyl acetate	43	3.604	3.604	0.000	56	4573	1.00	0.8779	
26 3-Chloro-1-propene	41	3.616	3.616	0.000	78	5538	0.5000	0.4893	
28 Methylene Chloride	84	3.735	3.735	0.000	86	6017	0.5000	0.5878	
29 2-Methyl-2-propanol	59		3.818				ND	ND	U
30 Acrylonitrile	53	3.948	3.948	0.000	98	13809	5.00	4.48	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	10014	0.5000	0.4199	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	94	5014	0.5000	0.4914	
33 Hexane	57		4.221				ND	ND	U
35 Vinyl acetate	43	4.375	4.363	0.012	55	3731	0.5000	0.6081	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	91	7550	0.5000	0.4784	
40 2-Butanone (MEK)	72		4.861				ND	ND	Ua
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	78	5303	0.5000	0.4870	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	83	6138	0.5000	0.4532	
45 Chlorobromomethane	128	5.087	5.087	0.000	76	2482	0.5000	0.4825	
46 Tetrahydrofuran	42	5.087	5.087	0.000	54	1478	1.00	0.7472	
47 Chloroform	83	5.170	5.158	0.012	90	7880	0.5000	0.4838	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	96	6809	0.5000	0.4734	
49 Cyclohexane	56	5.371	5.371	0.000	85	5166	0.5000	0.3843	
51 Carbon tetrachloride	117	5.442	5.442	0.000	94	5873	0.5000	0.4596	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	90	5681	0.5000	0.4451	
52 Isobutyl alcohol	41	5.502	5.502	0.000	35	1480	12.5	14.3	
54 Benzene	78	5.620	5.620	0.000	95	18845	0.5000	0.4876	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	90	5565	0.5000	0.4747	
56 n-Heptane	57	5.869	5.846	0.023	74	26707	0.5000	0.5277	
58 Trichloroethene	130	6.178	6.178	0.000	90	5929	0.5000	0.5163	
60 Methylcyclohexane	83		6.391				ND	ND	U
61 1,2-Dichloropropane	63	6.403	6.403	0.000	93	4173	0.5000	0.4755	
64 1,4-Dioxane	88		6.462				ND	ND	
63 Dibromomethane	93	6.486	6.486	0.000	88	2630	0.5000	0.4752	
65 Dichlorobromomethane	83	6.628	6.628	0.000	91	5428	0.5000	0.4658	
67 2-Chloroethyl vinyl ether	63		6.865				ND	ND	U
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	95	5856	0.5000	0.4095	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	ND	U
70 Toluene	91	7.316	7.316	0.000	98	19729	0.5000	0.4526	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	82	5499	0.5000	0.4047	
72 Ethyl methacrylate	69		7.541				ND	ND	U
73 1,1,2-Trichloroethane	97	7.696	7.695	0.001	83	3305	0.5000	0.3971	
75 Tetrachloroethene	164	7.779	7.778	0.000	93	4432	0.5000	0.4530	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	82	5570	0.5000	0.3866	
76 2-Hexanone	43		7.873				ND	ND	U
78 Chlorodibromomethane	129	8.051	8.051	0.000	81	3760	0.5000	0.4056	
80 Ethylene Dibromide	107	8.170	8.170	0.000	97	3472	0.5000	0.4082	
82 Chlorobenzene	112	8.620	8.620	0.000	95	14399	0.5000	0.4817	
84 Ethylbenzene	106	8.703	8.703	0.000	95	7359	0.5000	0.4529	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	89	3704	0.5000	0.3743	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	96	8968	0.5000	0.4493	
86 o-Xylene	106	9.202	9.190	0.012	93	8505	0.5000	0.4460	
87 Styrene	104	9.213	9.213	0.000	93	13125	0.5000	0.4180	
88 Bromoform	173		9.403				ND	ND	U
89 Isopropylbenzene	105	9.545	9.545	0.000	93	21090	0.5000	0.4332	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	84	4265	0.5000	0.4340	
93 Bromobenzene	156	9.866	9.866	0.000	84	5874	0.5000	0.4600	
94 trans-1,4-Dichloro-2-butene	53		9.877				ND	ND	U
95 1,2,3-Trichloropropane	110	9.913	9.901	0.012	76	1504	0.5000	0.4329	
96 N-Propylbenzene	120	9.949	9.949	0.000	97	5909	0.5000	0.4107	
97 2-Chlorotoluene	126	10.043	10.043	0.000	97	5232	0.5000	0.4313	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	93	15543	0.5000	0.3993	
100 4-Chlorotoluene	126	10.162	10.162	0.000	94	5290	0.5000	0.4219	
102 tert-Butylbenzene	119	10.435	10.435	0.000	87	15282	0.5000	0.4282	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	94	15177	0.5000	0.3957	
105 sec-Butylbenzene	105	10.660	10.660	0.000	92	20431	0.5000	0.3987	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	0.000	94	11864	0.5000	0.4848	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	95	16480	0.5000	0.3723	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	97	12260	0.5000	0.4965	
111 n-Butylbenzene	91	11.217	11.217	0.000	96	14441	0.5000	0.3836	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	95	10211	0.5000	0.4512	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	ND	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	87	5557	0.5000	0.4304	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	81	2596	0.5000	0.3958	
117 Naphthalene	128	13.150	13.150	0.000	91	11685	0.5000	0.4043	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	93	5119	0.5000	0.4429	
S 134 Trihalomethanes, Total	1				0		2.00	1.36	
S 158 Total BTEX	1				0		2.50	2.29	
S 131 1,2-Dichloroethene, Total	96				0			0.9784	
S 132 1,3-Dichloropropene, Total	75				0			0.8142	
S 133 Xylenes, Total	106				0		1.00	0.8953	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

vmrgas_00353	Amount Added:	0.40	Units: uL
vmarolistdw_00359	Amount Added:	0.40	Units: uL
vmrprimw_00402	Amount Added:	0.40	Units: uL
vm50ss_00417	Amount Added:	0.40	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

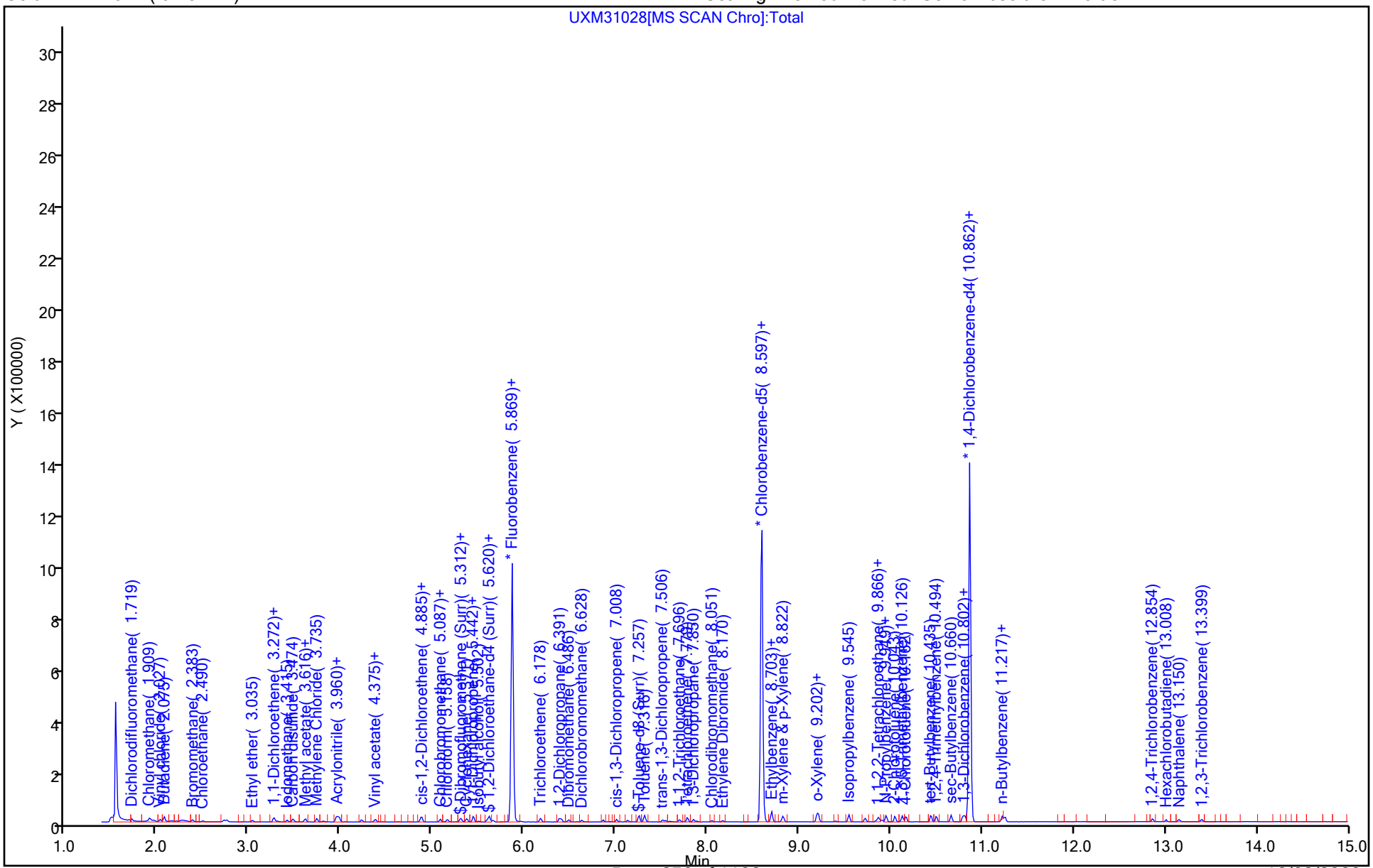
Report Date: 08-Sep-2020 15:53:29 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Injection Date:	08-Sep-2020 14:50:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L1			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

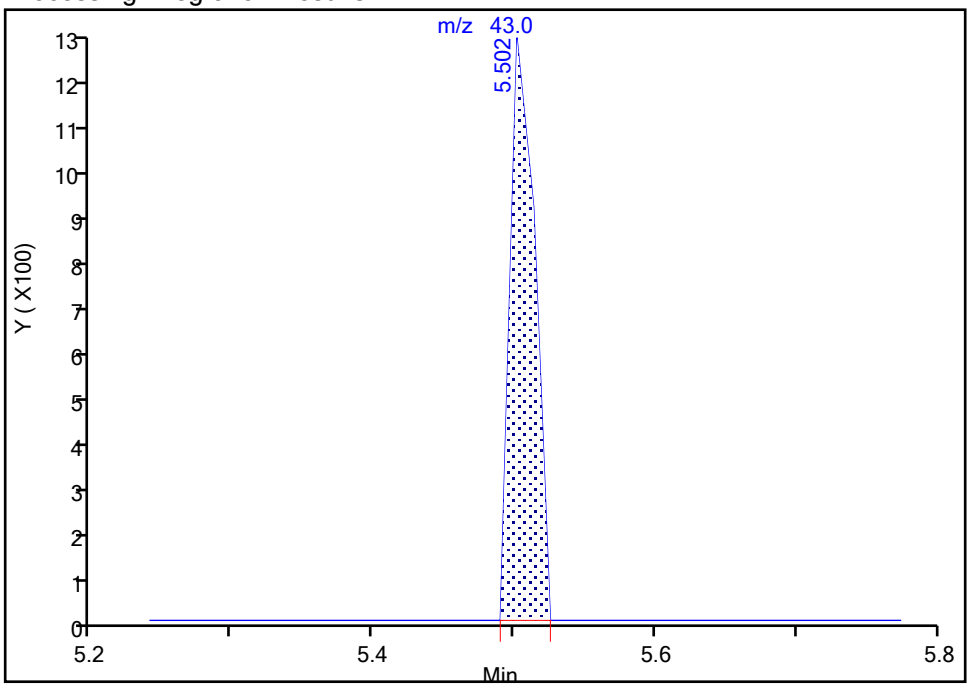
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 2

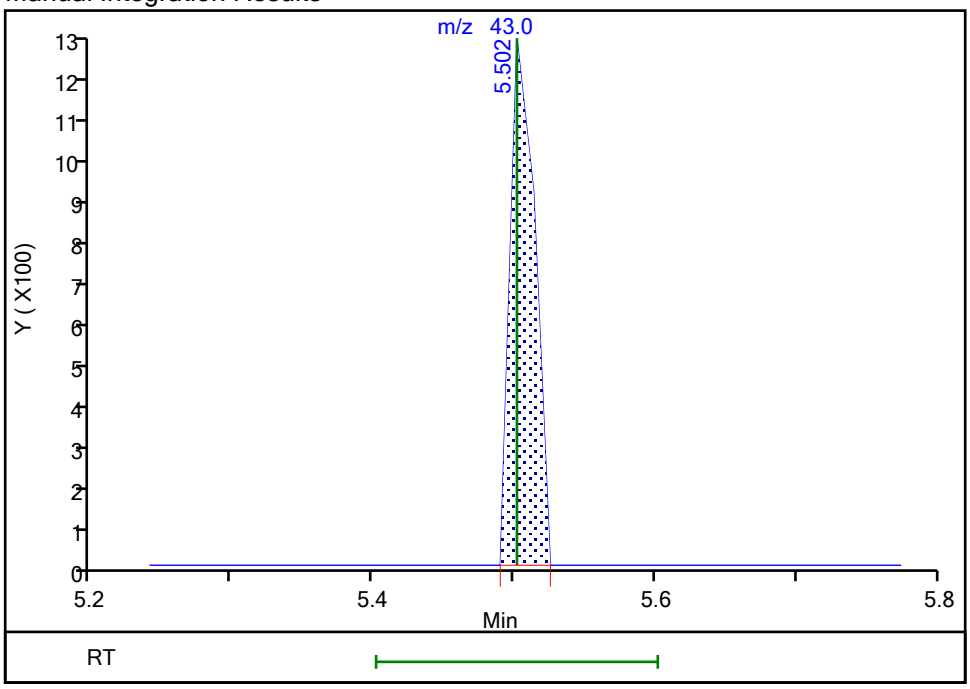
Processing Integration Results

RT: 5.50
Area: 1544
Amount: 14.339769
Amount Units: ug/l



Manual Integration Results

RT: 5.50
Area: 1544
Amount: 14.339769
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:25:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

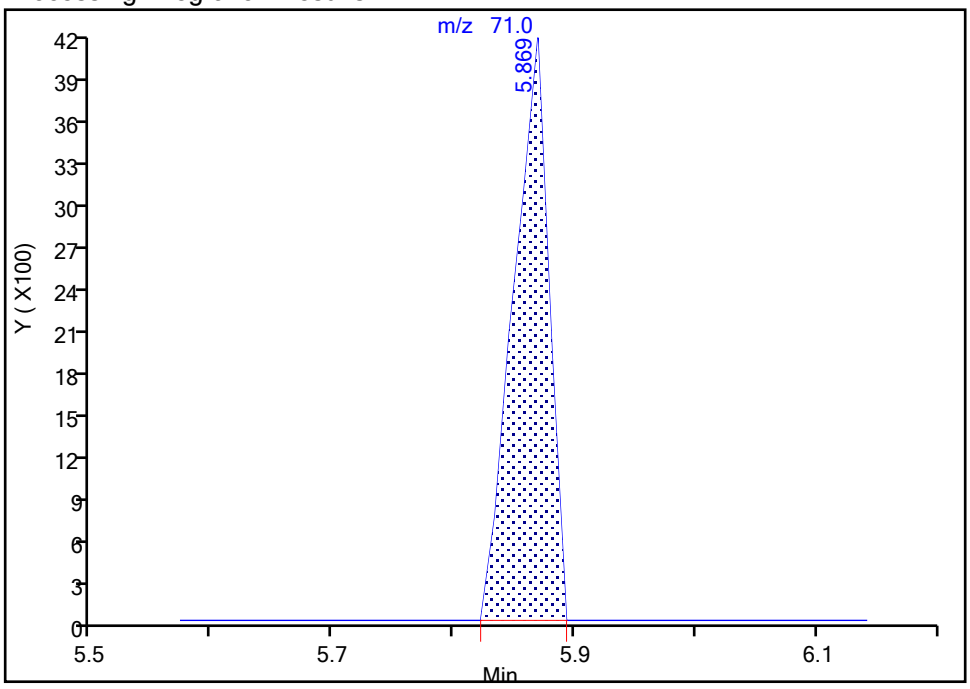
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Signal: 2

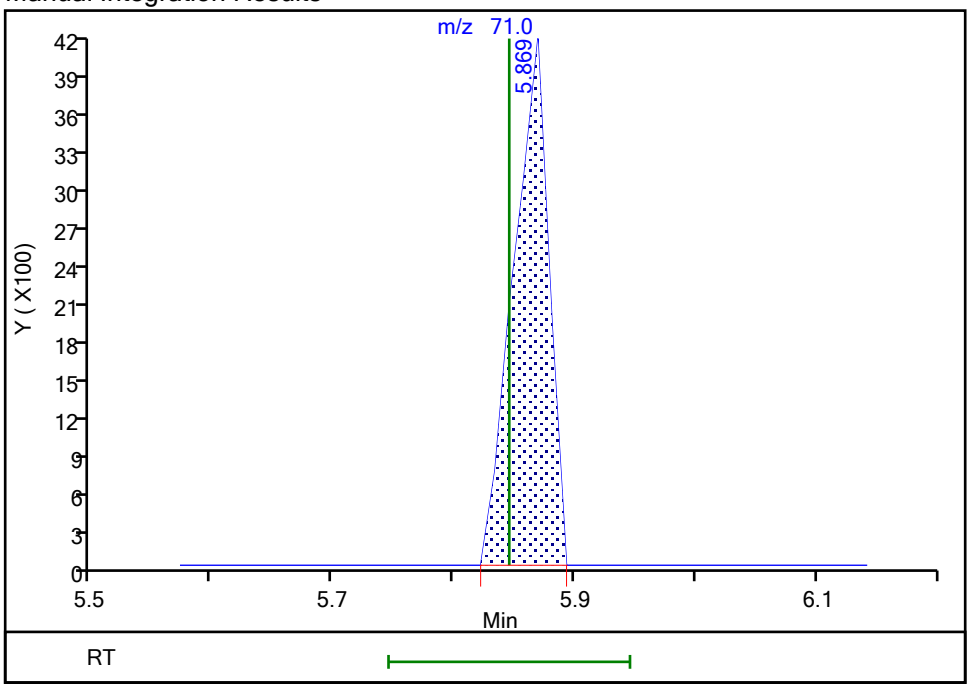
Processing Integration Results

RT: 5.87
Area: 8372
Amount: 0.583358
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 8372
Amount: 0.527744
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:26:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

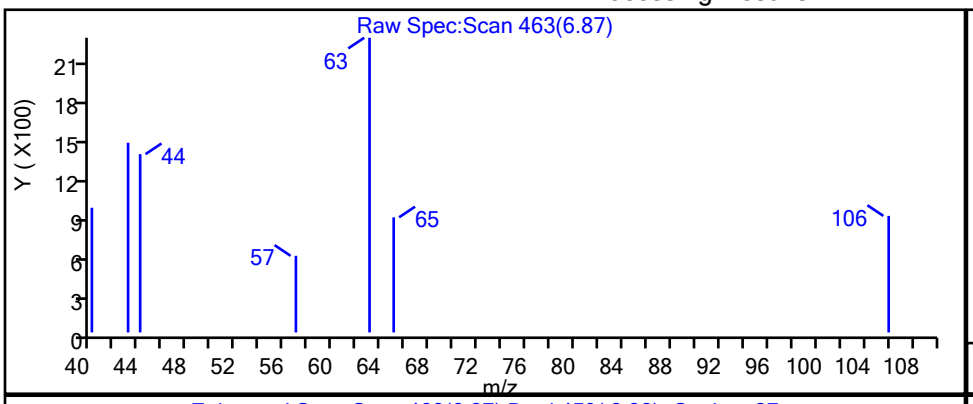
User Disabled Compound Report

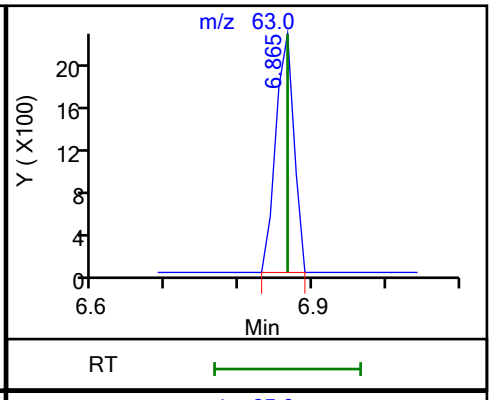
Eurofins TestAmerica, Canton

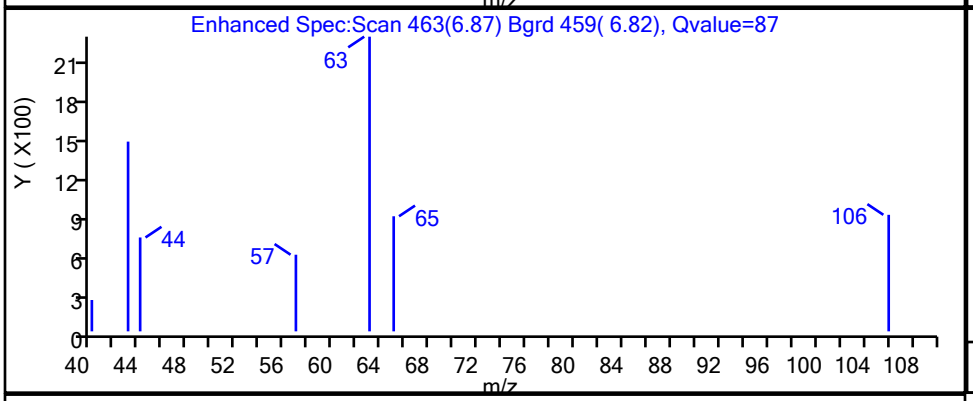
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

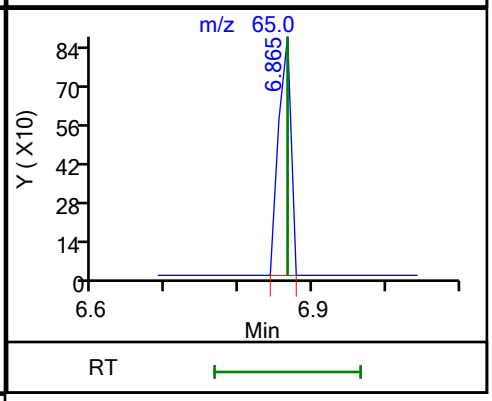
67 2-Chloroethyl vinyl ether, CAS: 110-75-8

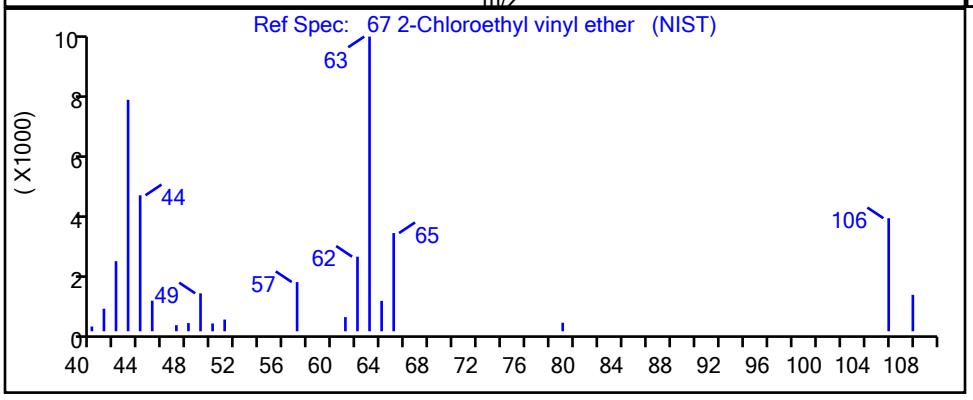
Processing Results











RT	Mass	Response	Amount
6.87	63.00	3865	1.132180
6.87	65.00	1027	

Reviewer: bosworthh, 08-Sep-2020 15:14:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

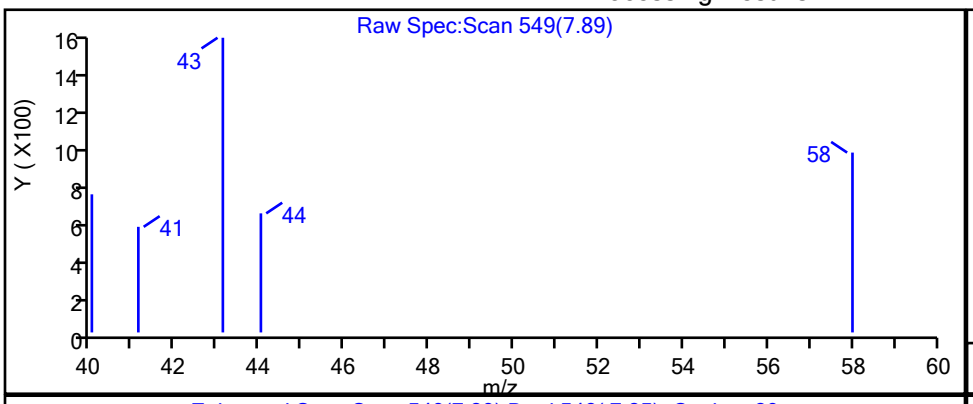
User Disabled Compound Report

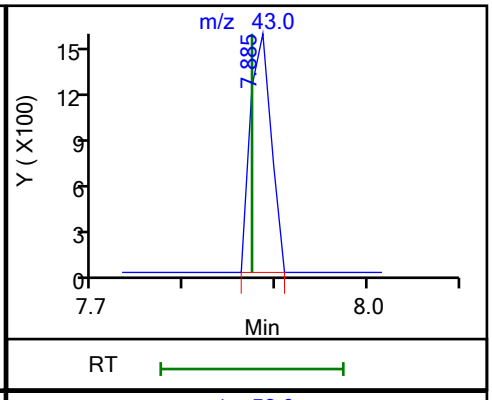
Eurofins TestAmerica, Canton

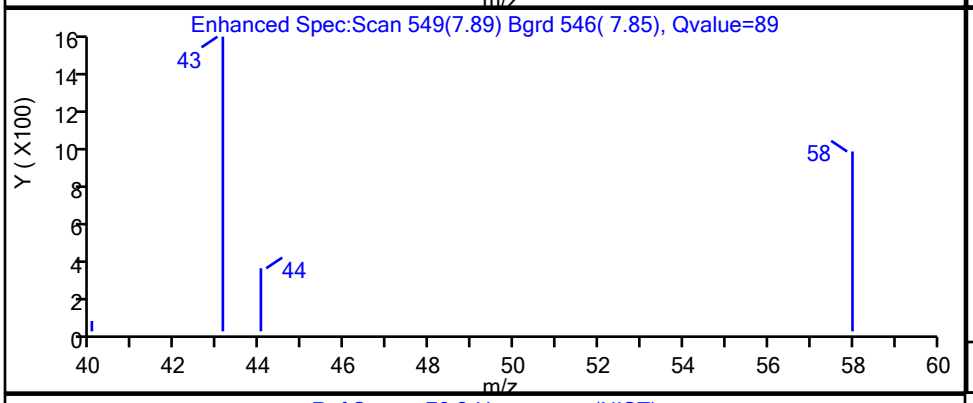
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

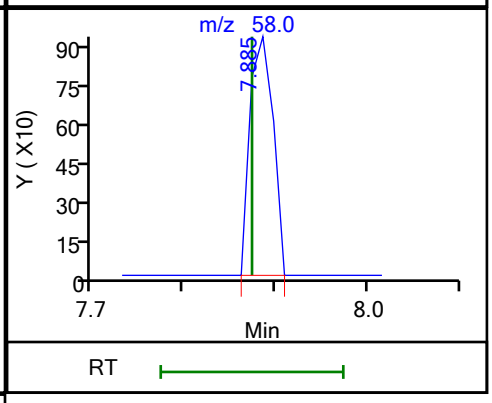
76 2-Hexanone, CAS: 591-78-6

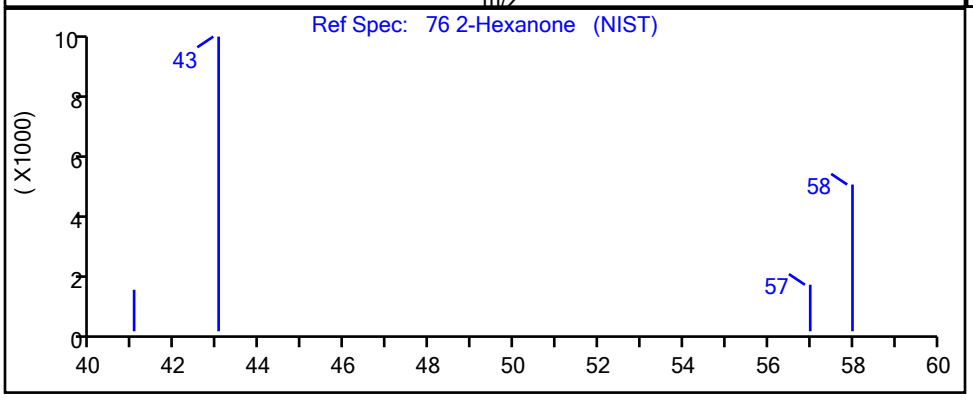
Processing Results











RT	Mass	Response	Amount
7.89	43.00	2429	1.047079
7.89	58.00	1649	

Reviewer: bosworthh, 08-Sep-2020 15:15:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

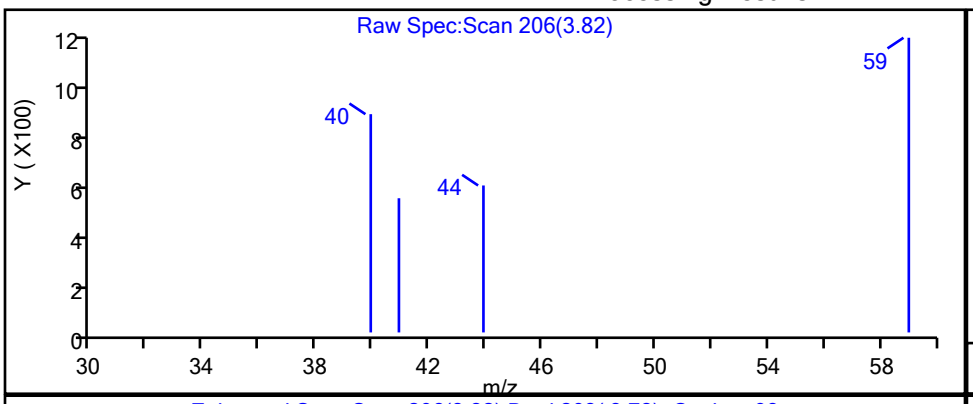
User Disabled Compound Report

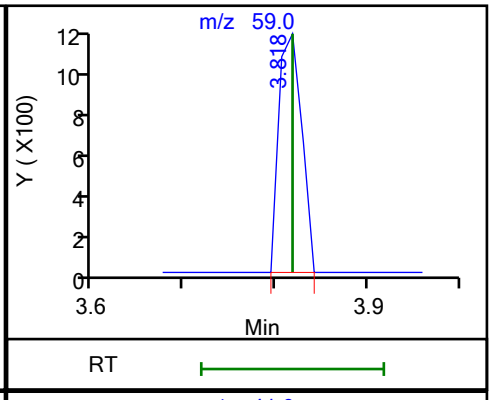
Eurofins TestAmerica, Canton

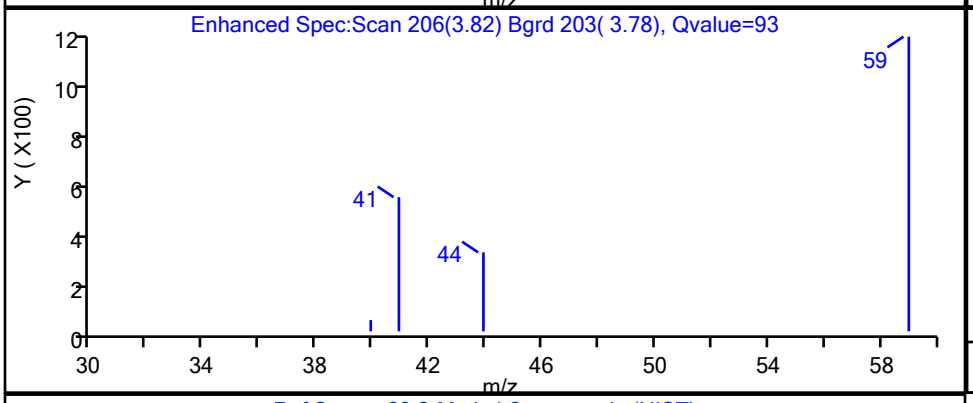
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

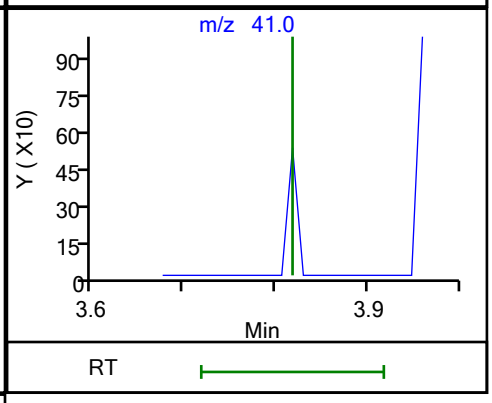
29 2-Methyl-2-propanol, CAS: 75-65-0

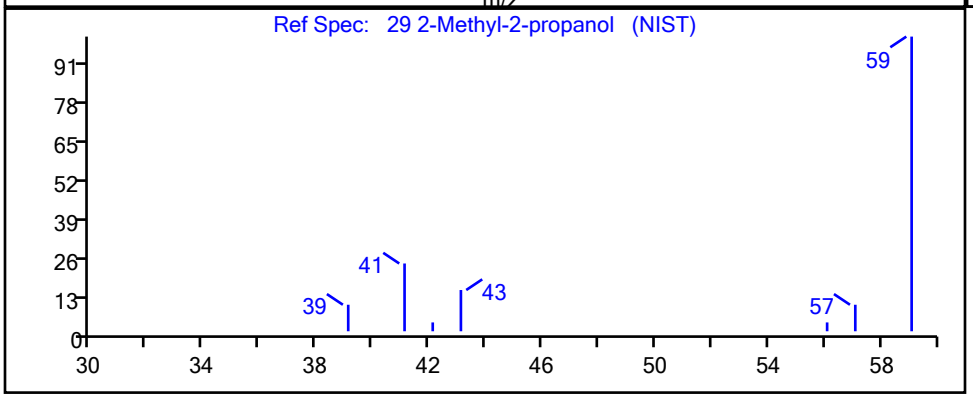
Processing Results











RT	Mass	Response	Amount
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3.82	41.00	0	

Reviewer: bosworthh, 08-Sep-2020 15:10:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

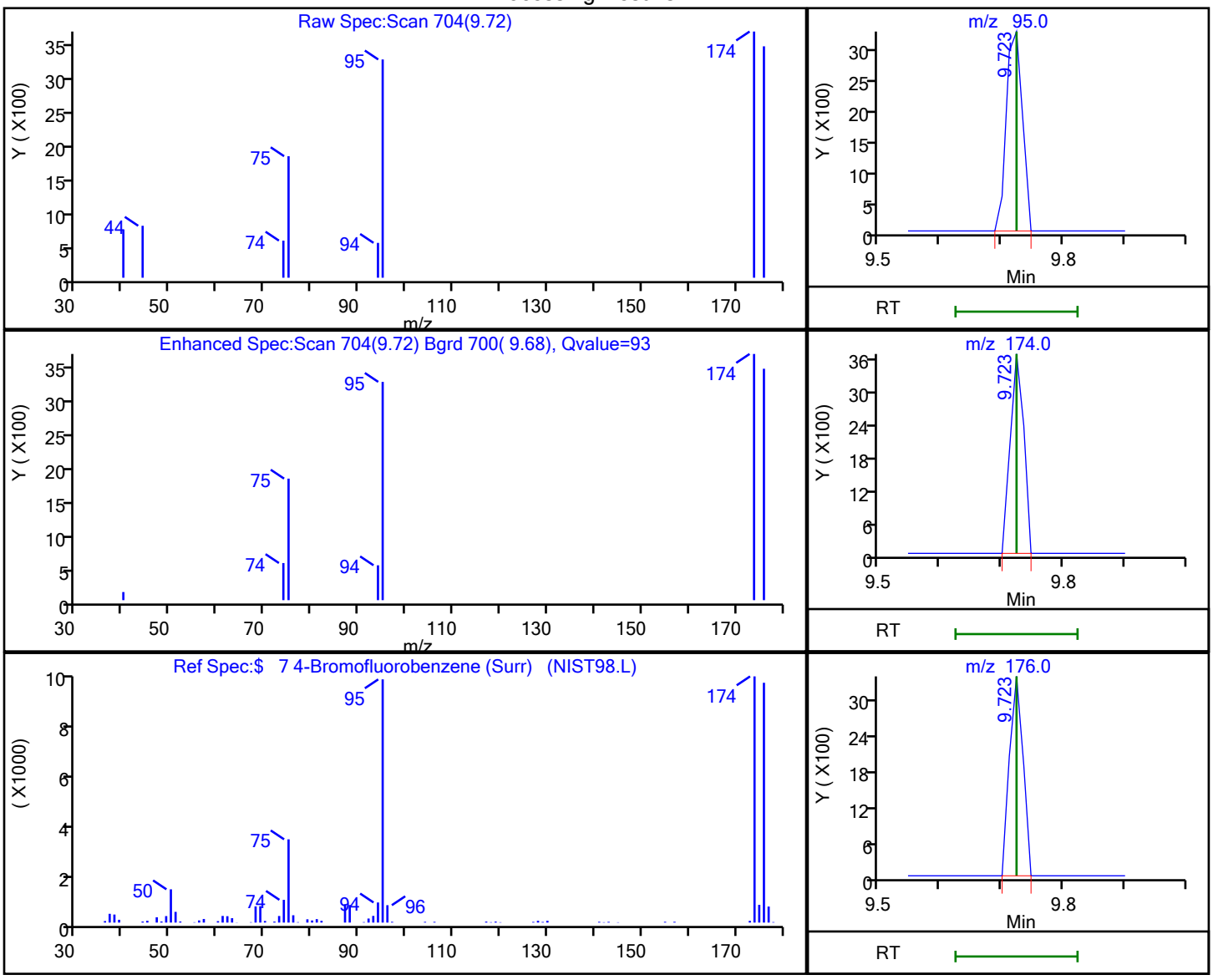
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Processing Results



RT	Mass	Response	Amount
9.72	95.00	5857	0.442437
9.72	174.00	5521	
9.72	176.00	5210	

Reviewer: bosworthh, 08-Sep-2020 15:51:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

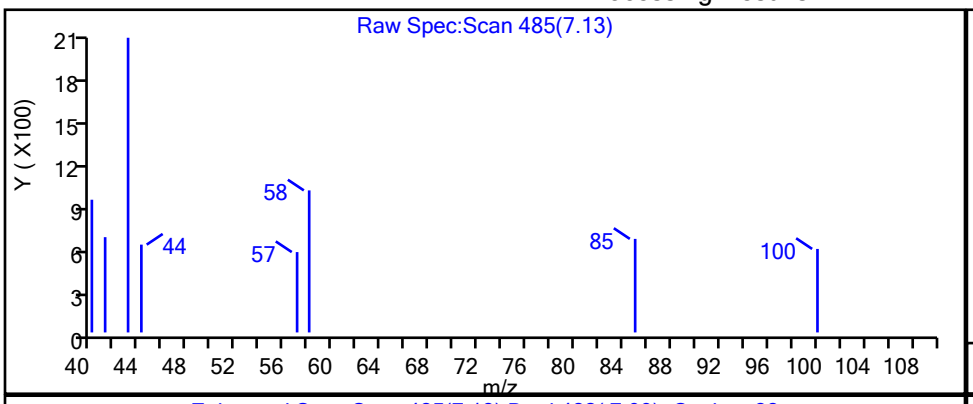
User Disabled Compound Report

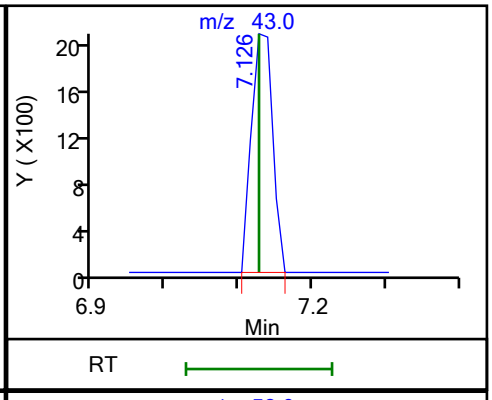
Eurofins TestAmerica, Canton

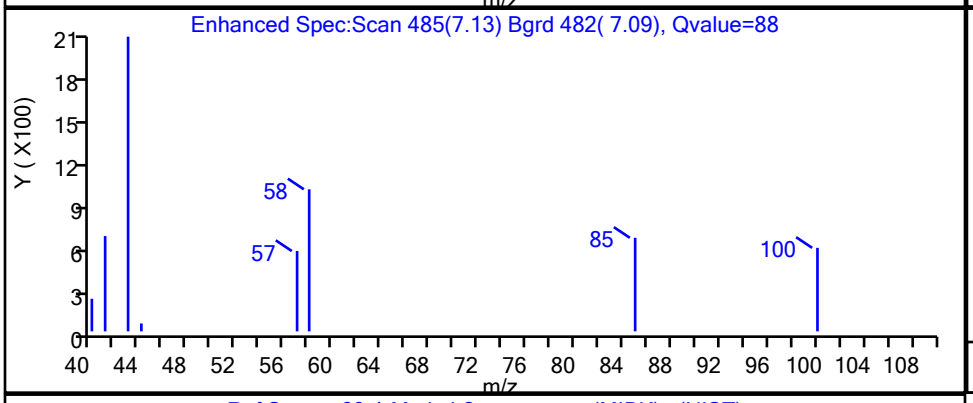
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

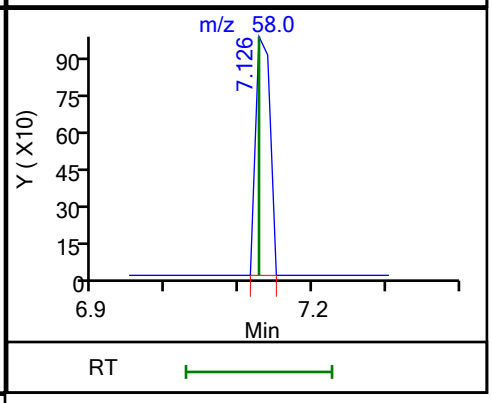
69 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

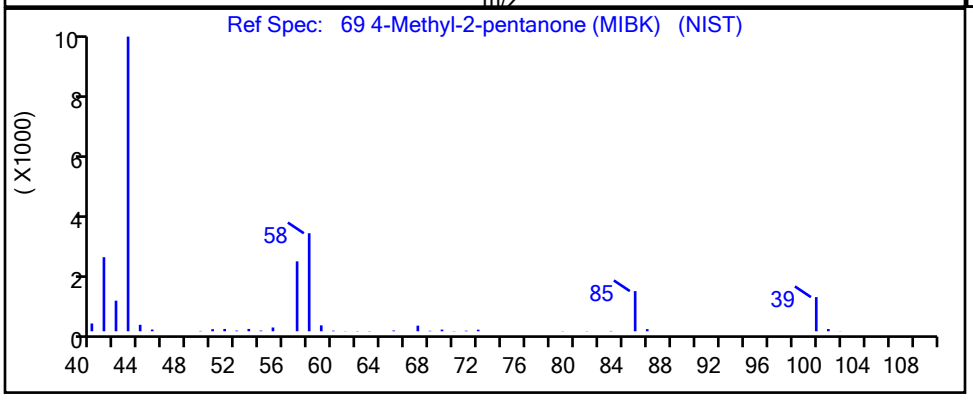
Processing Results











RT	Mass	Response	Amount
7.13	43.00	4165	1.114755
7.13	58.00	1354	

Reviewer: bosworthh, 08-Sep-2020 15:15:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

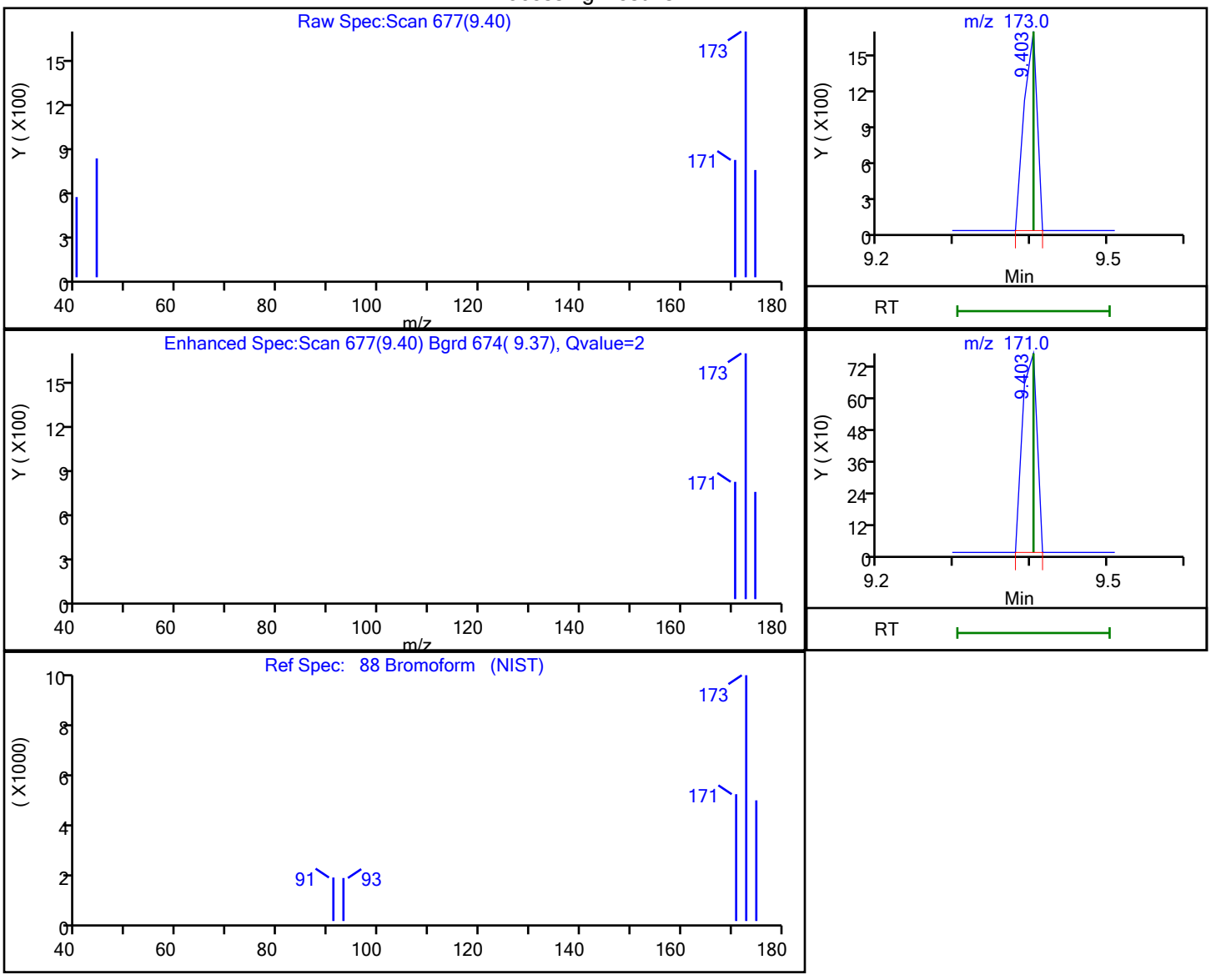
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

88 Bromoform, CAS: 75-25-2

Processing Results



RT	Mass	Response	Amount
9.40	173.00	1894	0.577217
9.40	171.00	1010	

Reviewer: bosworthh, 08-Sep-2020 15:16:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

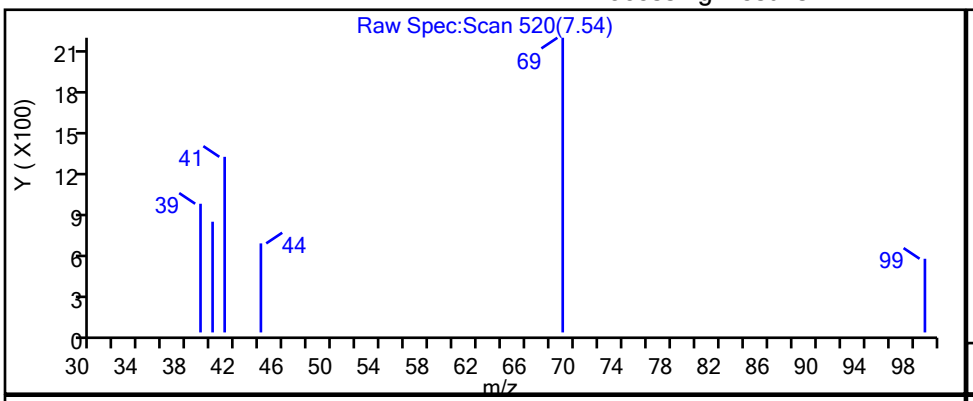
User Disabled Compound Report

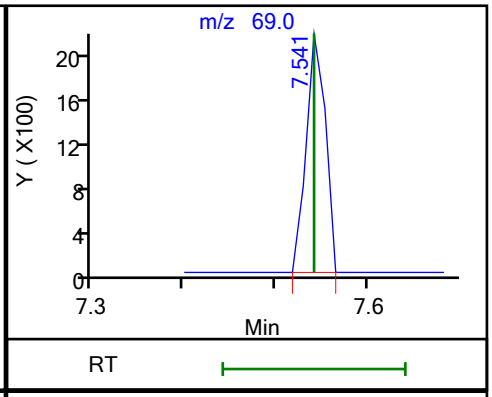
Eurofins TestAmerica, Canton

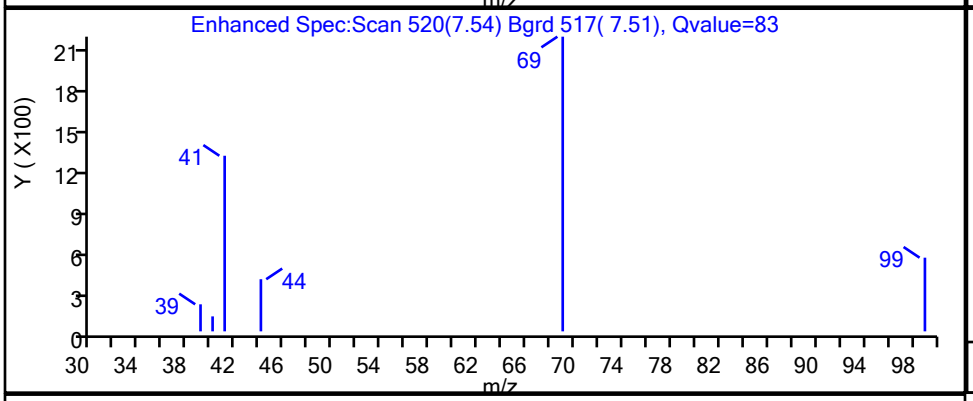
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

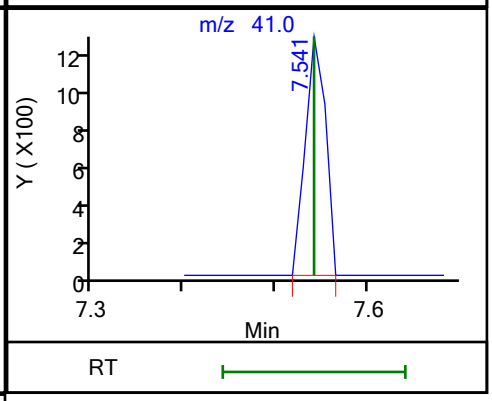
72 Ethyl methacrylate, CAS: 97-63-2

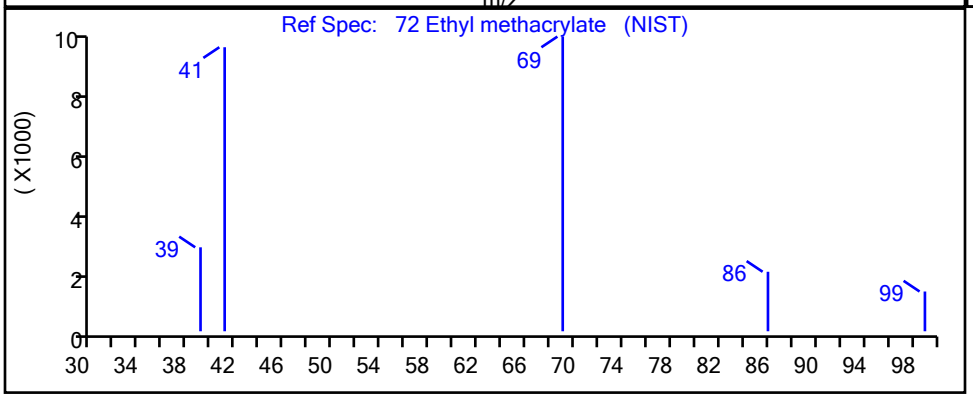
Processing Results











RT	Mass	Response	Amount
7.54	69.00	3132	0.580173
7.54	41.00	1977	

Reviewer: bosworthh, 08-Sep-2020 15:15:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

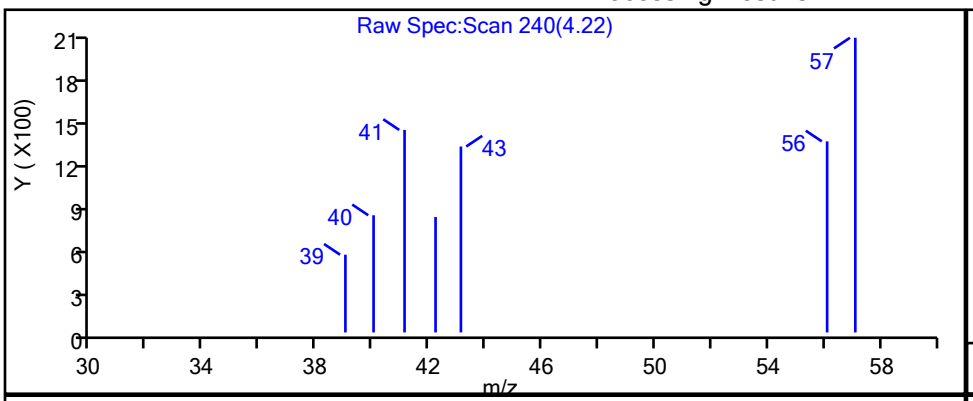
User Disabled Compound Report

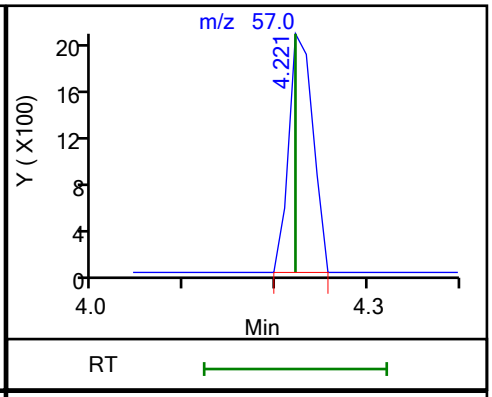
Eurofins TestAmerica, Canton

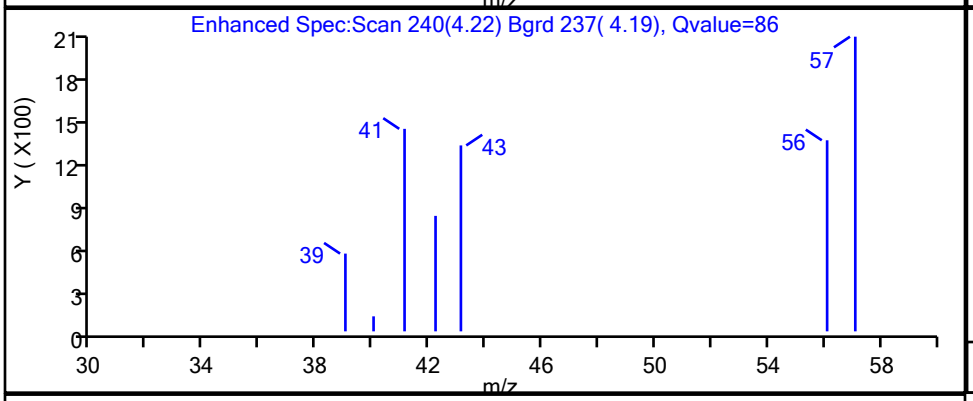
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

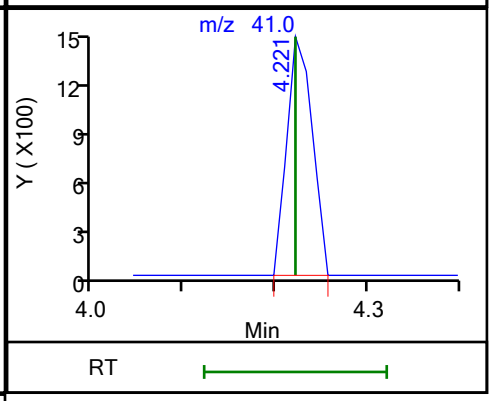
33 Hexane, CAS: 110-54-3

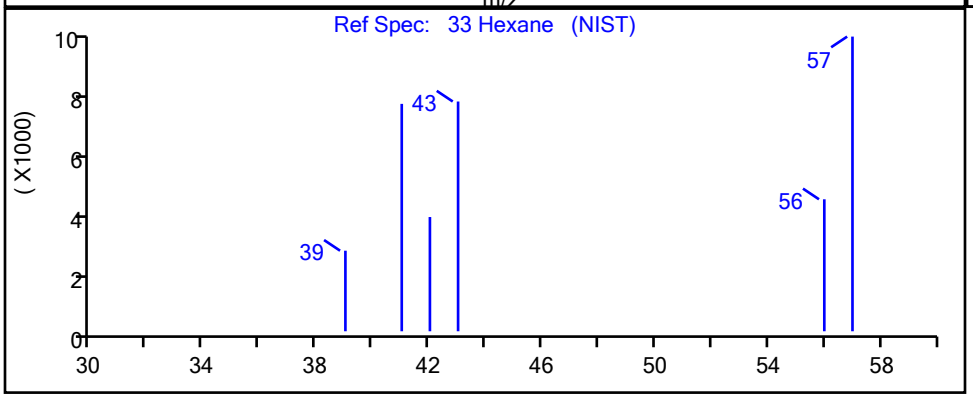
Processing Results











RT	Mass	Response	Amount
4.22	57.00	3803	0.592473
4.22	41.00	2740	

Reviewer: bosworthh, 08-Sep-2020 15:10:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

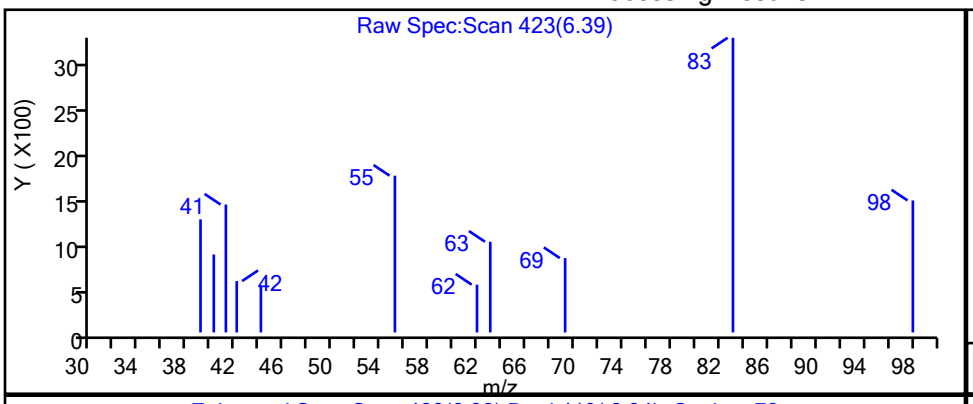
User Disabled Compound Report

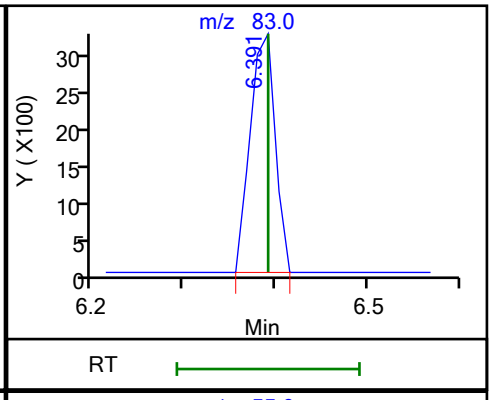
Eurofins TestAmerica, Canton

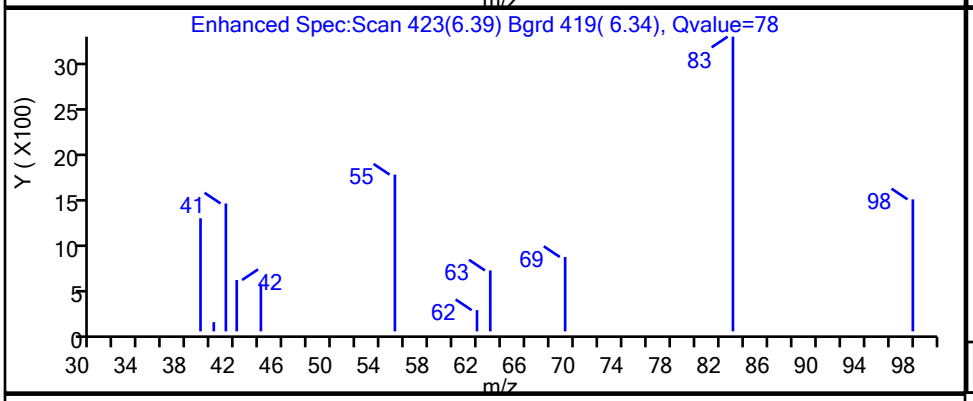
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

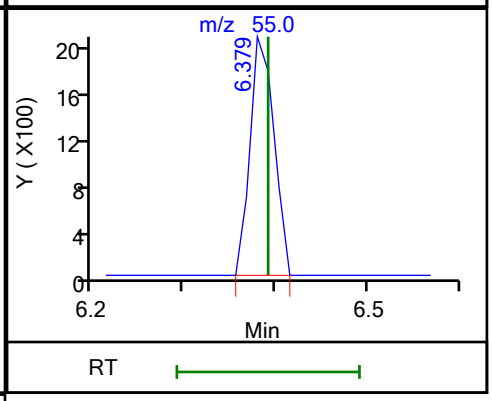
60 Methylcyclohexane, CAS: 108-87-2

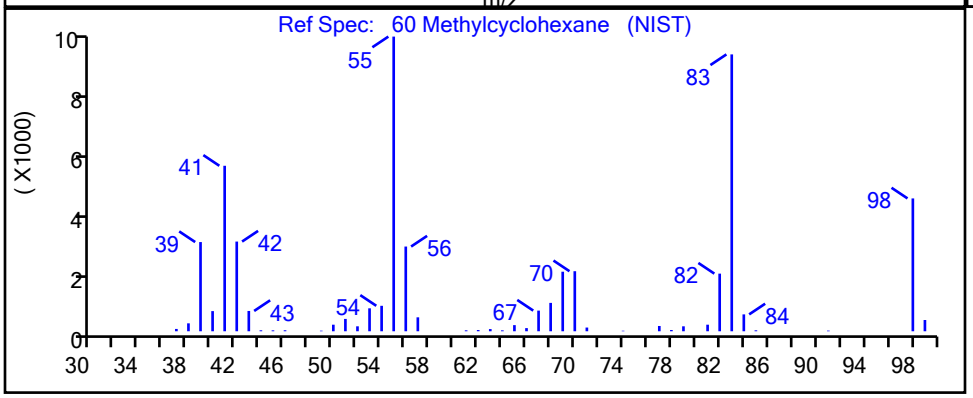
Processing Results











RT	Mass	Response	Amount
6.39	83.00	6134	0.593994
6.38	55.00	3647	

Reviewer: bosworthh, 08-Sep-2020 15:14:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

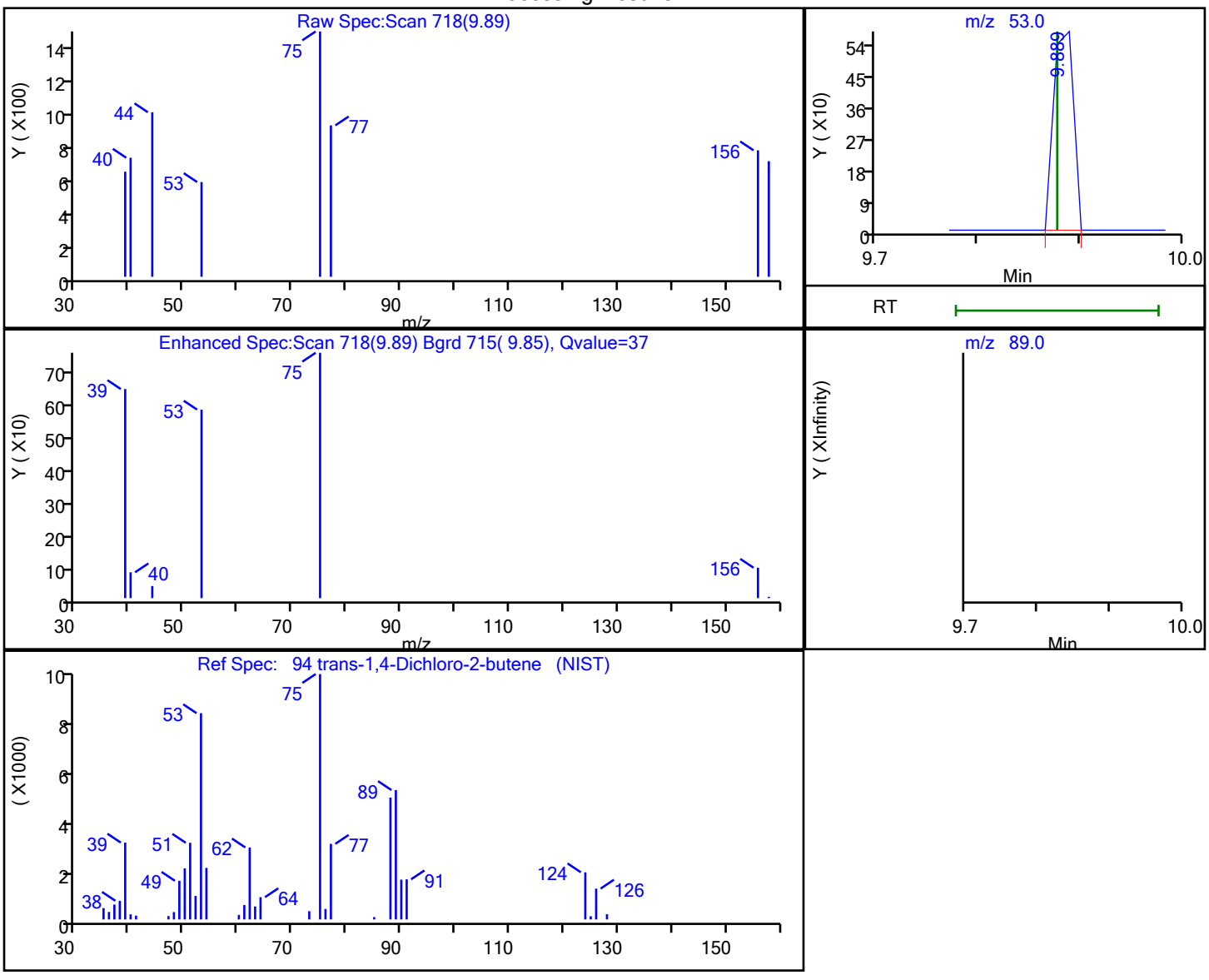
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

94 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
9.89	53.00	795	0.487373
9.88	89.00	0	

Reviewer: bosworthh, 08-Sep-2020 15:16:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

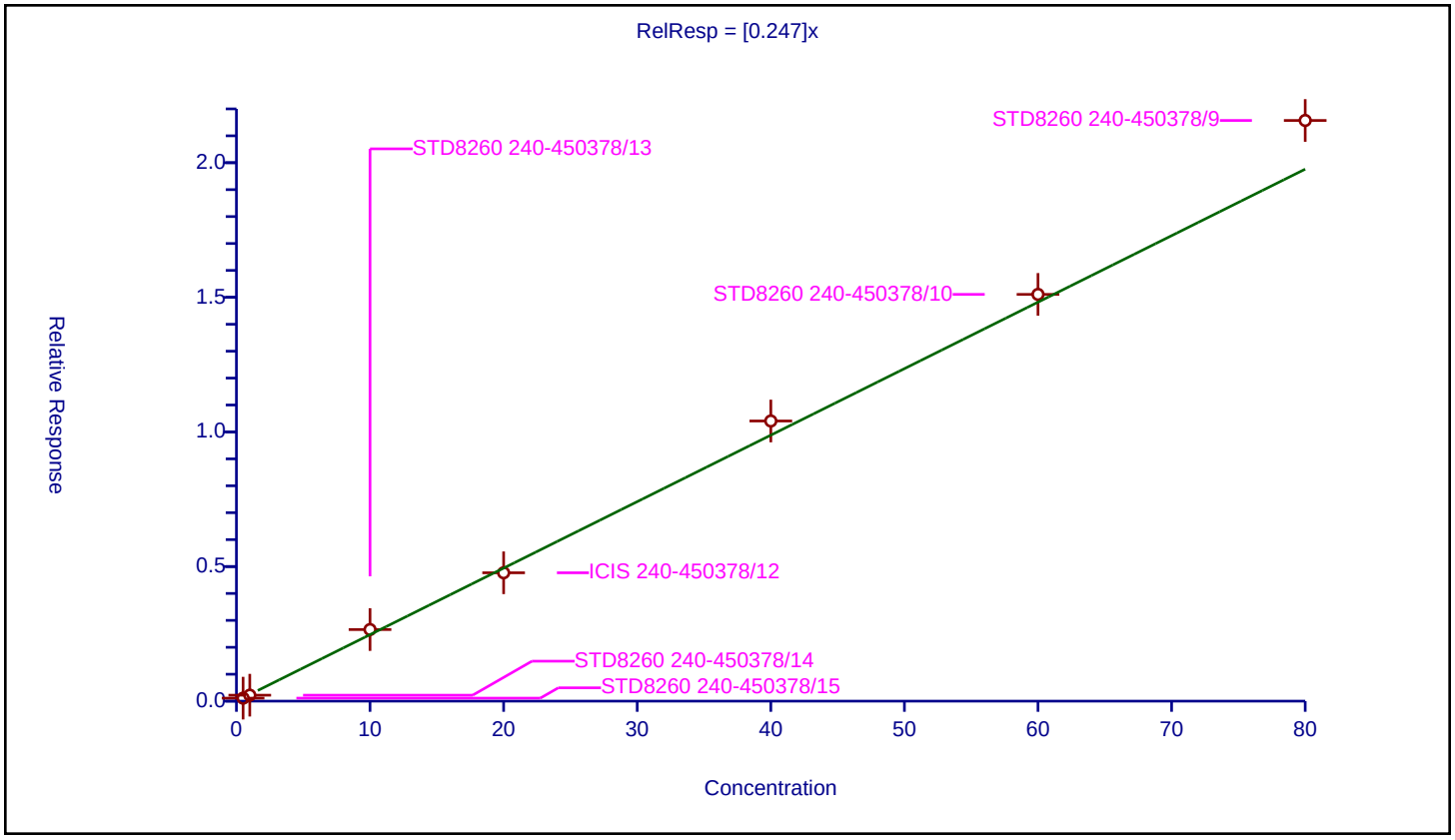
Curve Coefficients

Intercept:	0
Slope:	0.247

Error Coefficients

Standard Error:	590000
Relative Standard Error:	8.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.11088	20.0	841447.0	0.221761	Y
2	STD8260 240-450378/14	1.0	0.221368	20.0	857034.0	0.221368	Y
3	STD8260 240-450378/13	10.0	2.659337	20.0	949906.0	0.265934	Y
4	ICIS 240-450378/12	20.0	4.768425	20.0	955305.0	0.238421	Y
5	STD8260 240-450378/11	40.0	10.406625	20.0	985207.0	0.260166	Y
6	STD8260 240-450378/10	60.0	15.109086	20.0	986335.0	0.251818	Y
7	STD8260 240-450378/9	80.0	21.569973	20.0	1016272.0	0.269625	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

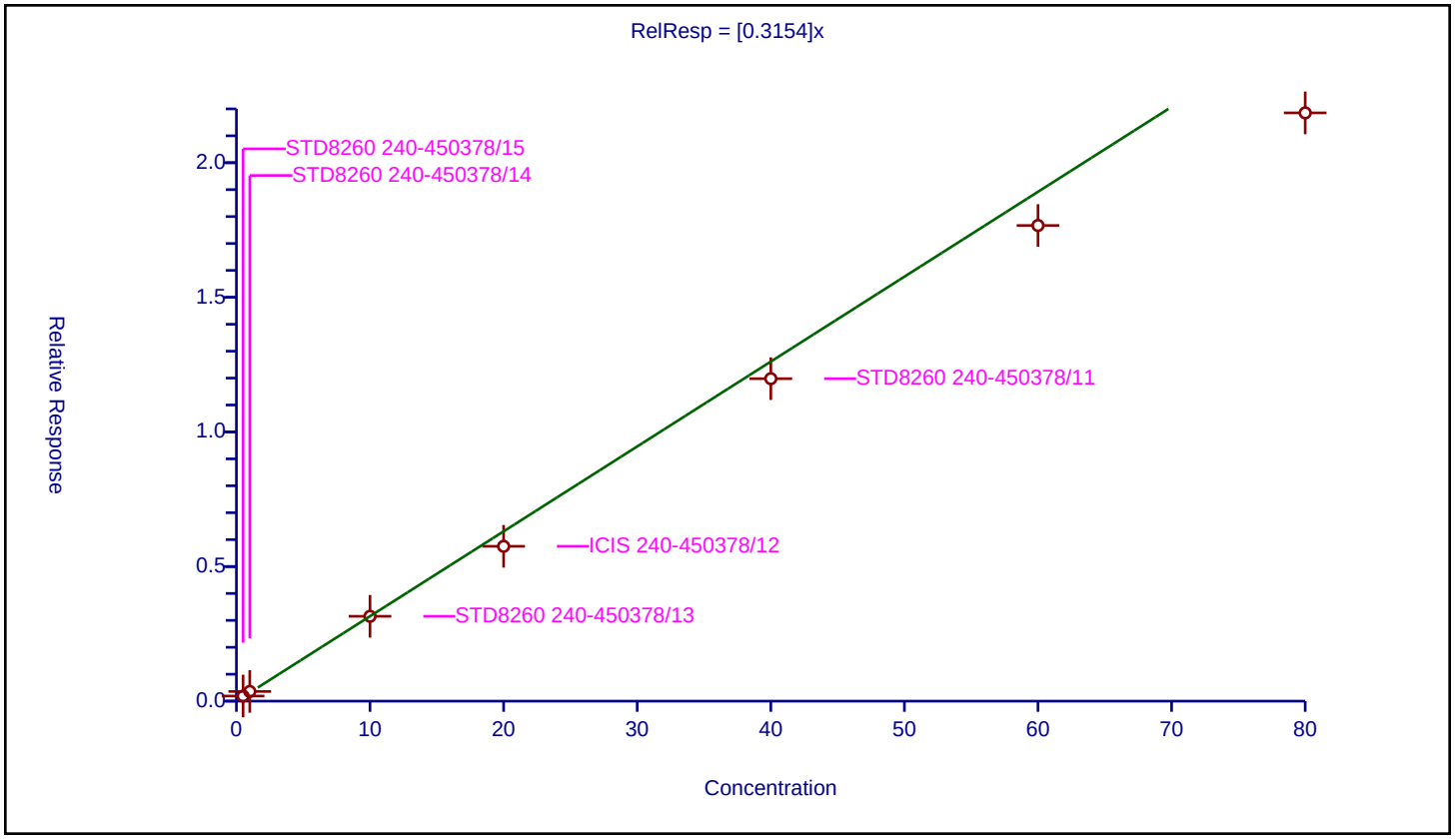
Curve Coefficients

Intercept:	0
Slope:	0.3154

Error Coefficients

Standard Error:	637000
Relative Standard Error:	12.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.189127	20.0	841447.0	0.378253	Y
2	STD8260 240-450378/14	1.0	0.359496	20.0	857034.0	0.359496	Y
3	STD8260 240-450378/13	10.0	3.151154	20.0	949906.0	0.315115	Y
4	ICIS 240-450378/12	20.0	5.751273	20.0	955305.0	0.287564	Y
5	STD8260 240-450378/11	40.0	11.978721	20.0	985207.0	0.299468	Y
6	STD8260 240-450378/10	60.0	17.668662	20.0	986335.0	0.294478	Y
7	STD8260 240-450378/9	80.0	21.851296	20.0	1016272.0	0.273141	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

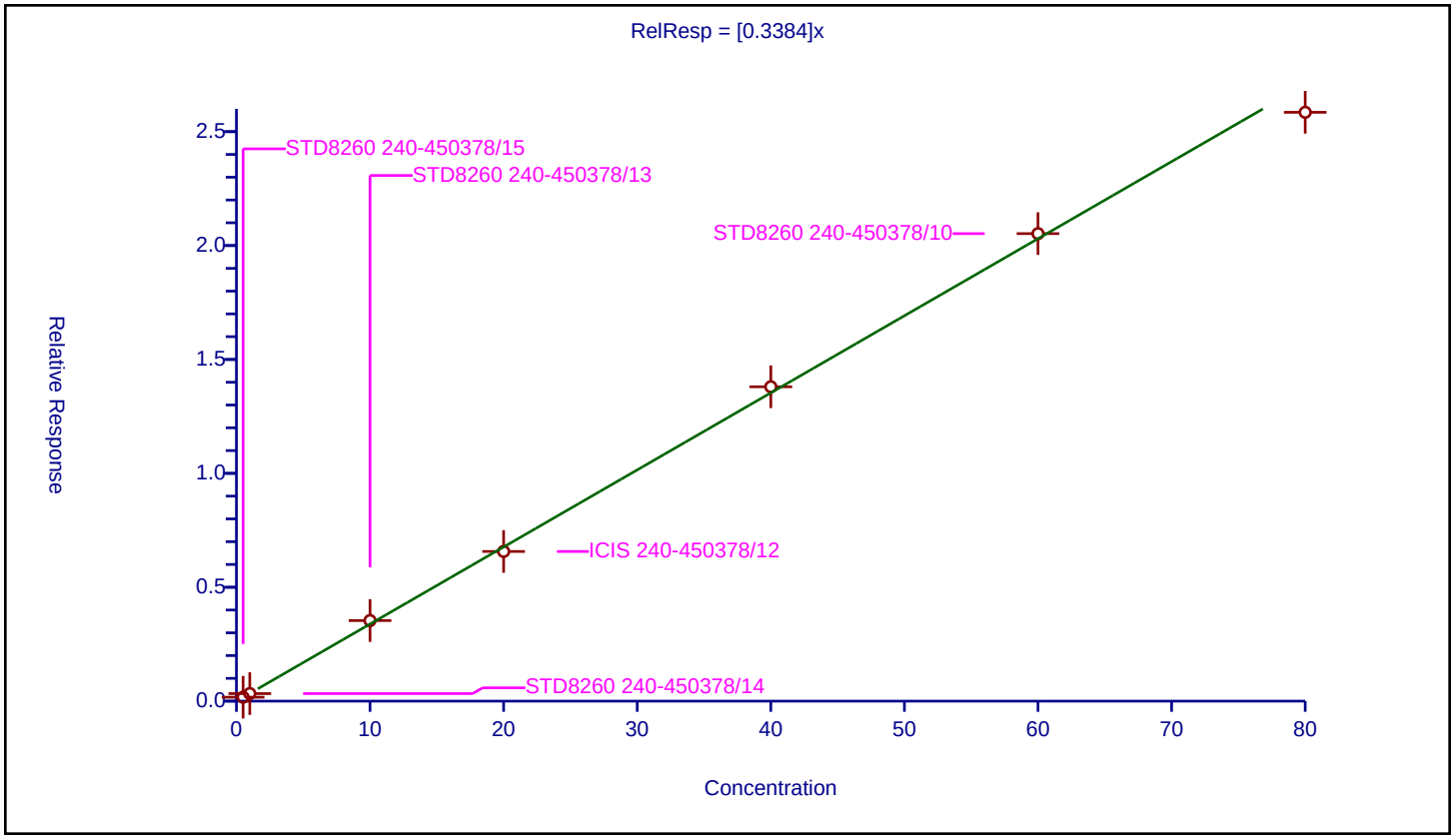
Curve Coefficients

Intercept:	0
Slope:	0.3384

Error Coefficients

Standard Error:	746000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.172037	20.0	841447.0	0.344074	Y
2	STD8260 240-450378/14	1.0	0.331982	20.0	857034.0	0.331982	Y
3	STD8260 240-450378/13	10.0	3.537487	20.0	949906.0	0.353749	Y
4	ICIS 240-450378/12	20.0	6.570928	20.0	955305.0	0.328546	Y
5	STD8260 240-450378/11	40.0	13.801749	20.0	985207.0	0.345044	Y
6	STD8260 240-450378/10	60.0	20.524406	20.0	986335.0	0.342073	Y
7	STD8260 240-450378/9	80.0	25.850442	20.0	1016272.0	0.323131	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

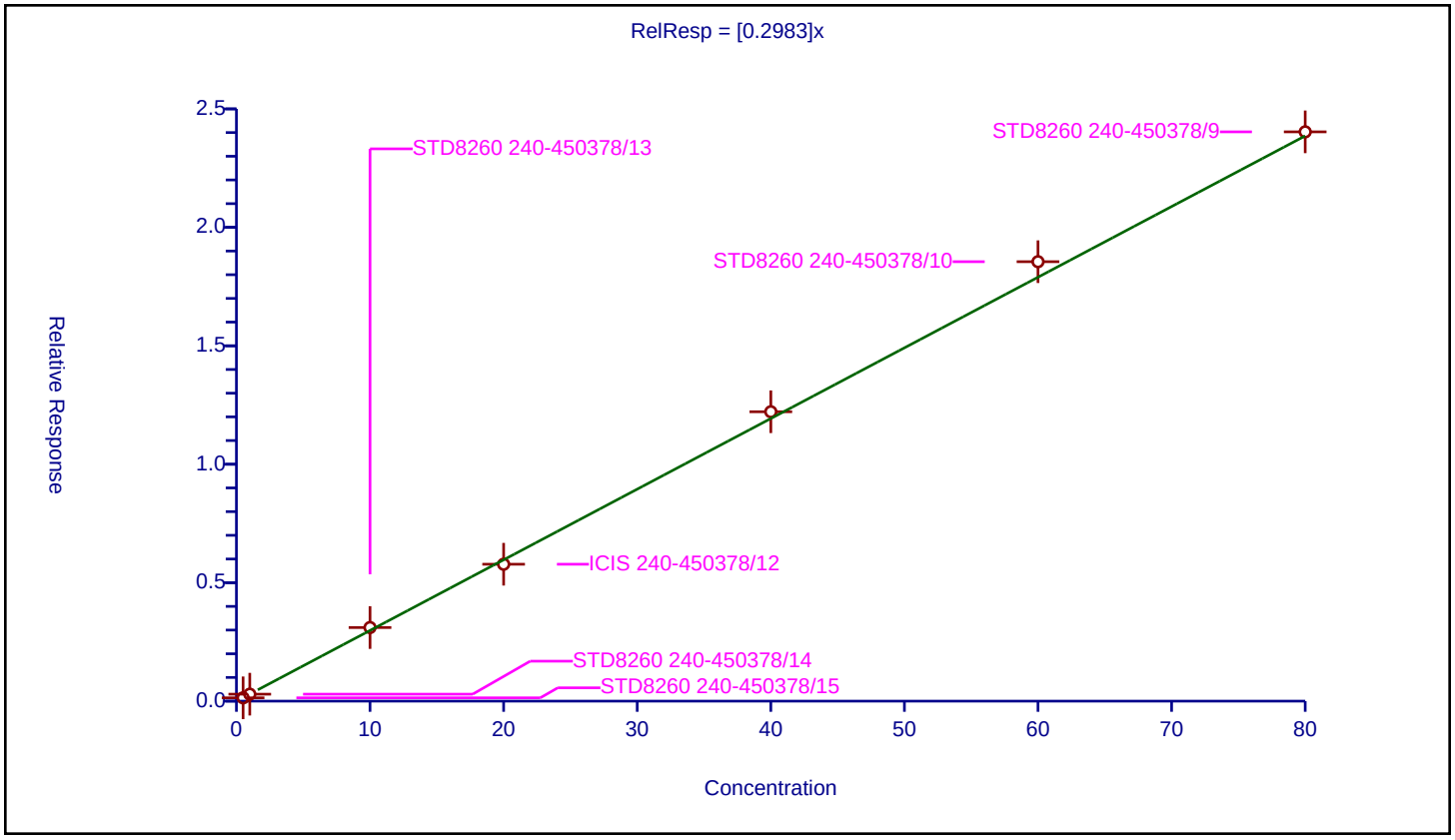
Curve Coefficients

Intercept:	0
Slope:	0.2983

Error Coefficients

Standard Error:	682000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.139783	20.0	841447.0	0.279566	Y
2	STD8260 240-450378/14	1.0	0.293571	20.0	857034.0	0.293571	Y
3	STD8260 240-450378/13	10.0	3.107128	20.0	949906.0	0.310713	Y
4	ICIS 240-450378/12	20.0	5.779599	20.0	955305.0	0.28898	Y
5	STD8260 240-450378/11	40.0	12.215849	20.0	985207.0	0.305396	Y
6	STD8260 240-450378/10	60.0	18.550026	20.0	986335.0	0.309167	Y
7	STD8260 240-450378/9	80.0	24.030574	20.0	1016272.0	0.300382	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

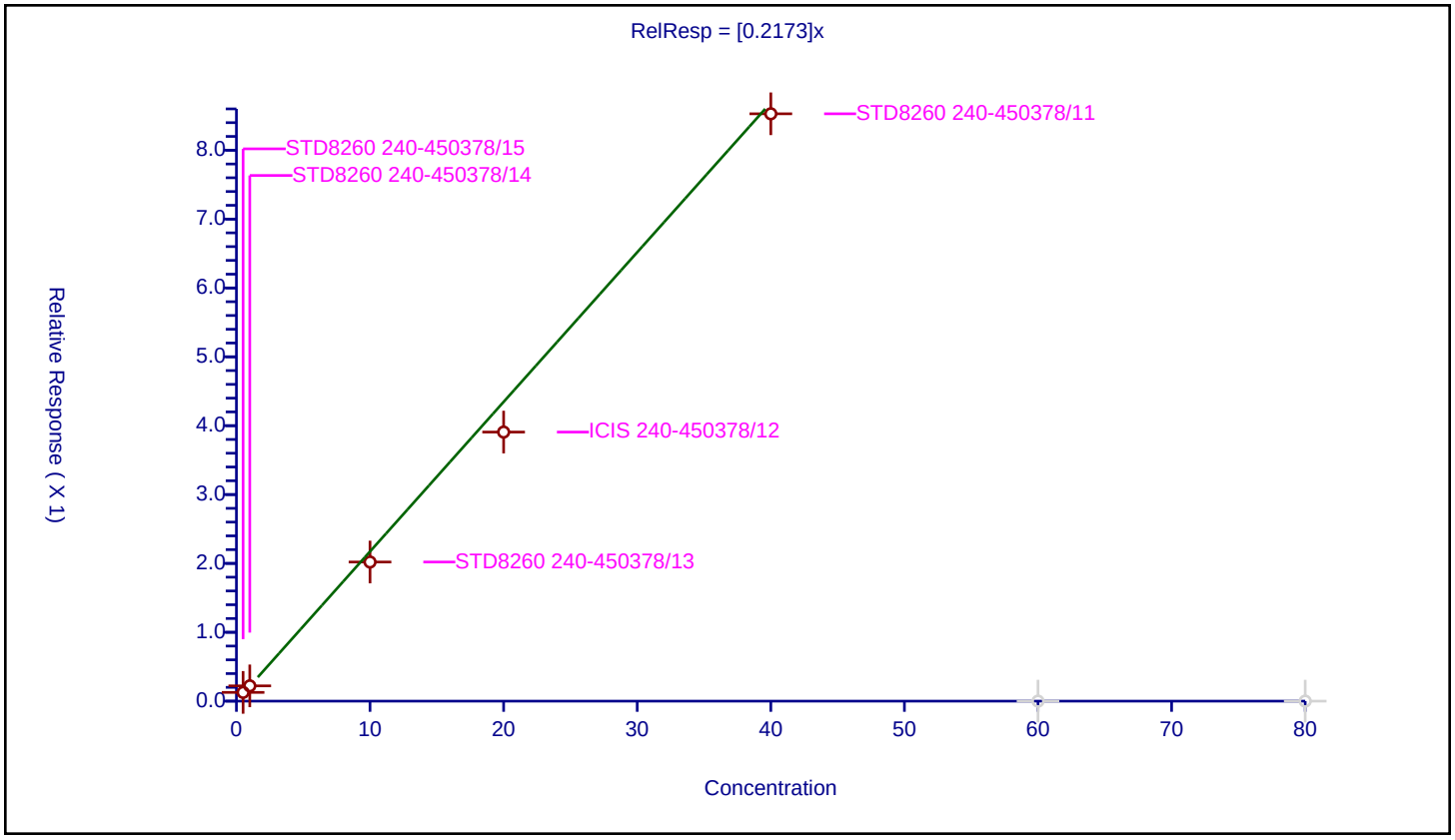
Curve Coefficients

Intercept:	0
Slope:	0.2173

Error Coefficients

Standard Error:	235000
Relative Standard Error:	10.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.127043	20.0	841447.0	0.254086	Y
2	STD8260 240-450378/14	1.0	0.221671	20.0	857034.0	0.221671	Y
3	STD8260 240-450378/13	10.0	2.020263	20.0	949906.0	0.202026	Y
4	ICIS 240-450378/12	20.0	3.907255	20.0	955305.0	0.195363	Y
5	STD8260 240-450378/11	40.0	8.528827	20.0	985207.0	0.213221	Y
6	STD8260 240-450378/10	60.0	0.0	20.0	986335.0	0.0	N
7	STD8260 240-450378/9	80.0	0.0	20.0	1016272.0	0.0	N



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

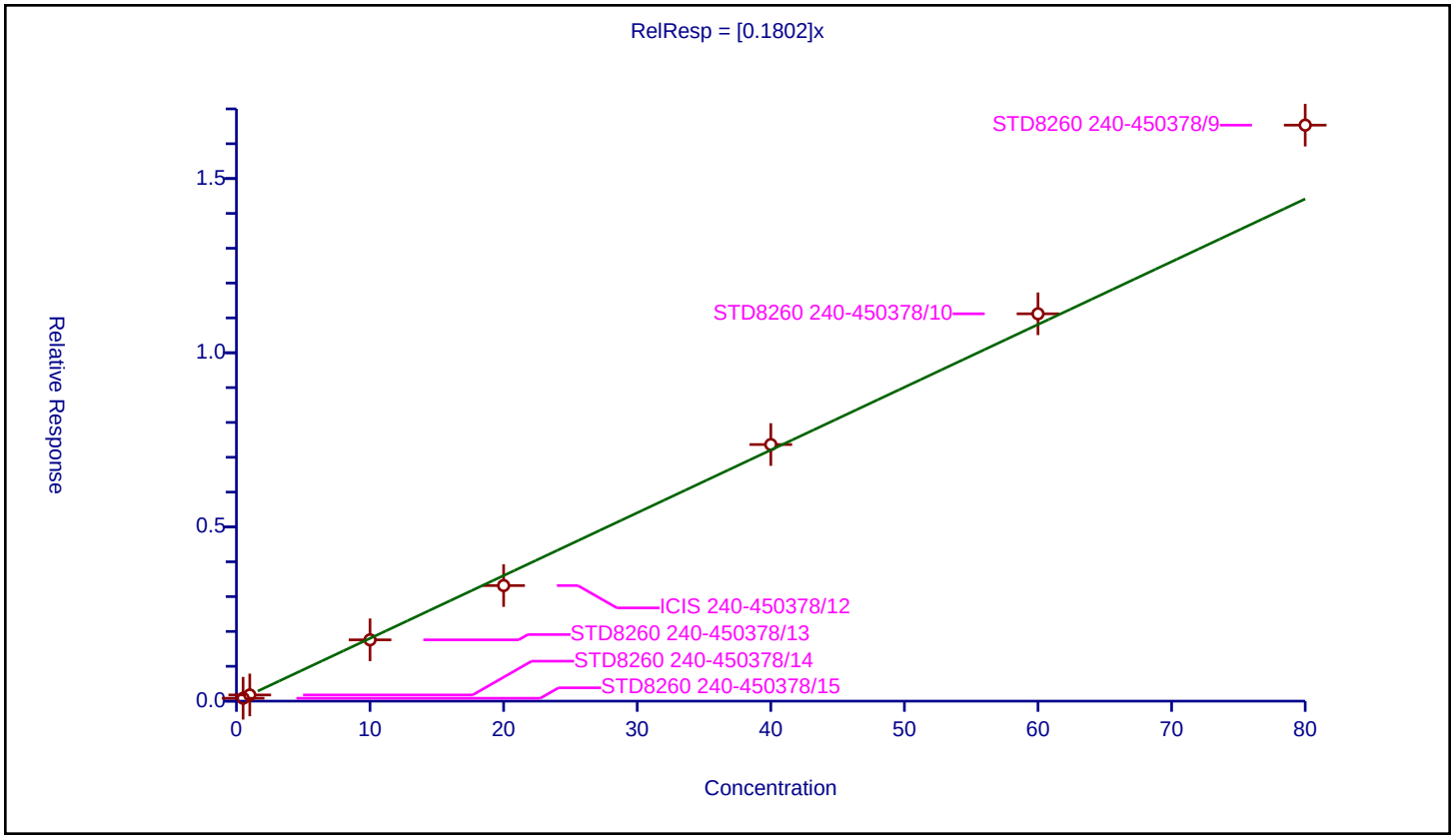
Curve Coefficients

Intercept:	0
Slope:	0.1802

Error Coefficients

Standard Error:	442000
Relative Standard Error:	7.8
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.082762	20.0	841447.0	0.165524	Y
2	STD8260 240-450378/14	1.0	0.177916	20.0	857034.0	0.177916	Y
3	STD8260 240-450378/13	10.0	1.759142	20.0	949906.0	0.175914	Y
4	ICIS 240-450378/12	20.0	3.317956	20.0	955305.0	0.165898	Y
5	STD8260 240-450378/11	40.0	7.365437	20.0	985207.0	0.184136	Y
6	STD8260 240-450378/10	60.0	11.118271	20.0	986335.0	0.185305	Y
7	STD8260 240-450378/9	80.0	16.5339	20.0	1016272.0	0.206674	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

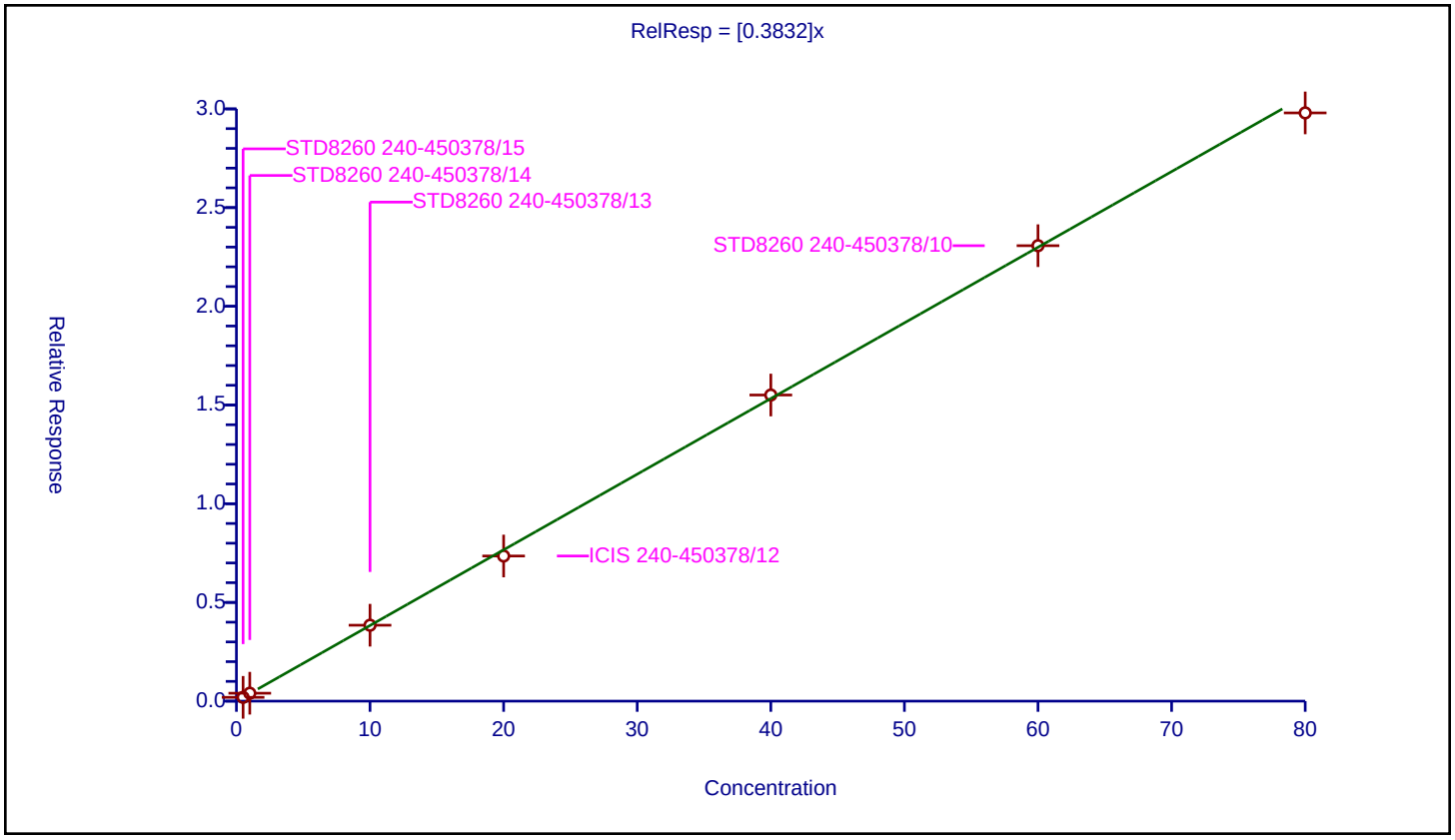
Curve Coefficients

Intercept:	0
Slope:	0.3832

Error Coefficients

Standard Error:	849000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.192288	20.0	841447.0	0.384576	Y
2	STD8260 240-450378/14	1.0	0.400988	20.0	857034.0	0.400988	Y
3	STD8260 240-450378/13	10.0	3.846149	20.0	949906.0	0.384615	Y
4	ICIS 240-450378/12	20.0	7.352291	20.0	955305.0	0.367615	Y
5	STD8260 240-450378/11	40.0	15.505939	20.0	985207.0	0.387648	Y
6	STD8260 240-450378/10	60.0	23.071249	20.0	986335.0	0.384521	Y
7	STD8260 240-450378/9	80.0	29.796747	20.0	1016272.0	0.372459	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

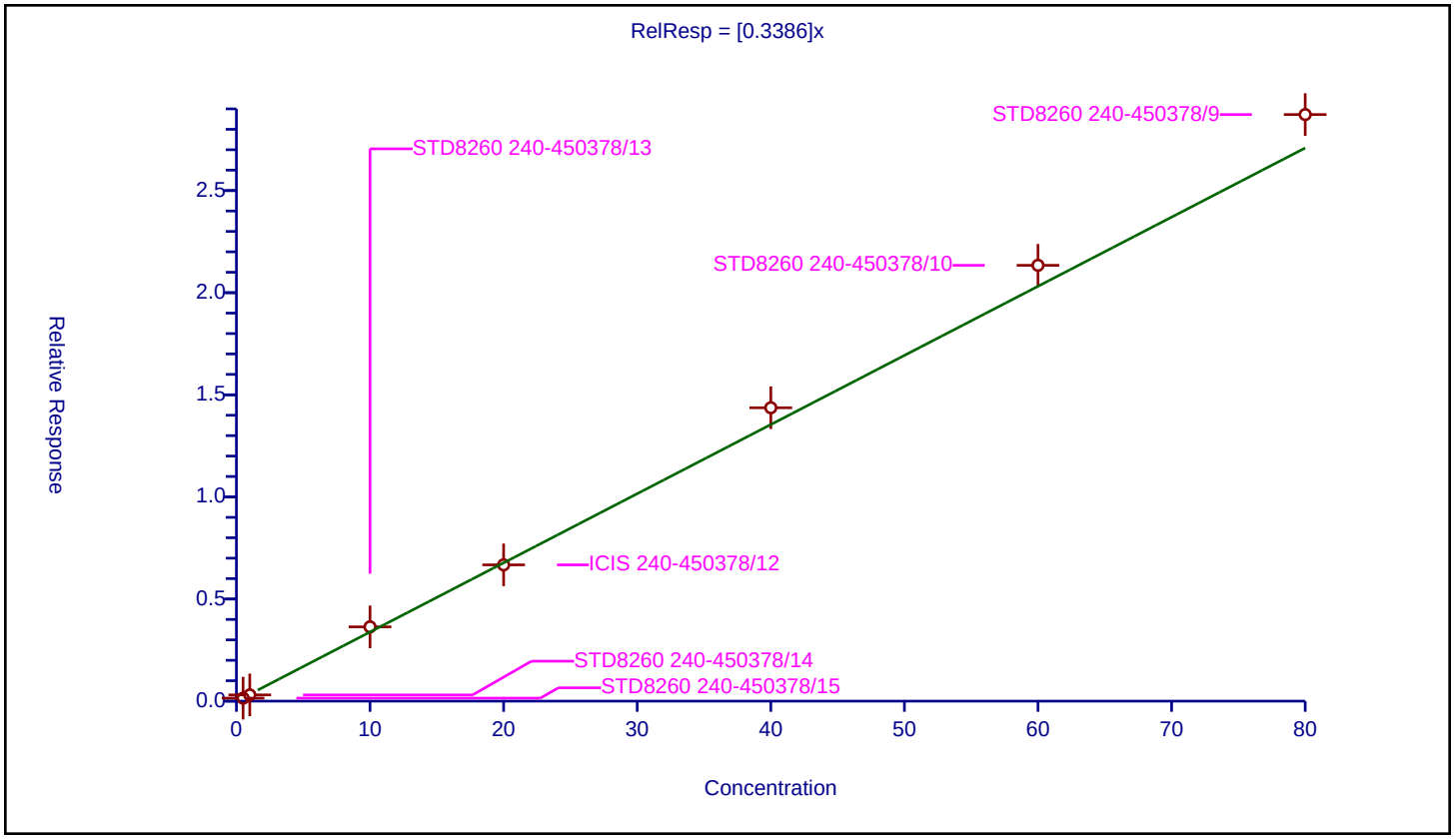
Curve Coefficients

Intercept:	0
Slope:	0.3386

Error Coefficients

Standard Error:	803000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.146486	20.0	841447.0	0.292972	Y
2	STD8260 240-450378/14	1.0	0.305869	20.0	857034.0	0.305869	Y
3	STD8260 240-450378/13	10.0	3.636697	20.0	949906.0	0.36367	Y
4	ICIS 240-450378/12	20.0	6.672864	20.0	955305.0	0.333643	Y
5	STD8260 240-450378/11	40.0	14.366199	20.0	985207.0	0.359155	Y
6	STD8260 240-450378/10	60.0	21.341268	20.0	986335.0	0.355688	Y
7	STD8260 240-450378/9	80.0	28.72172	20.0	1016272.0	0.359022	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

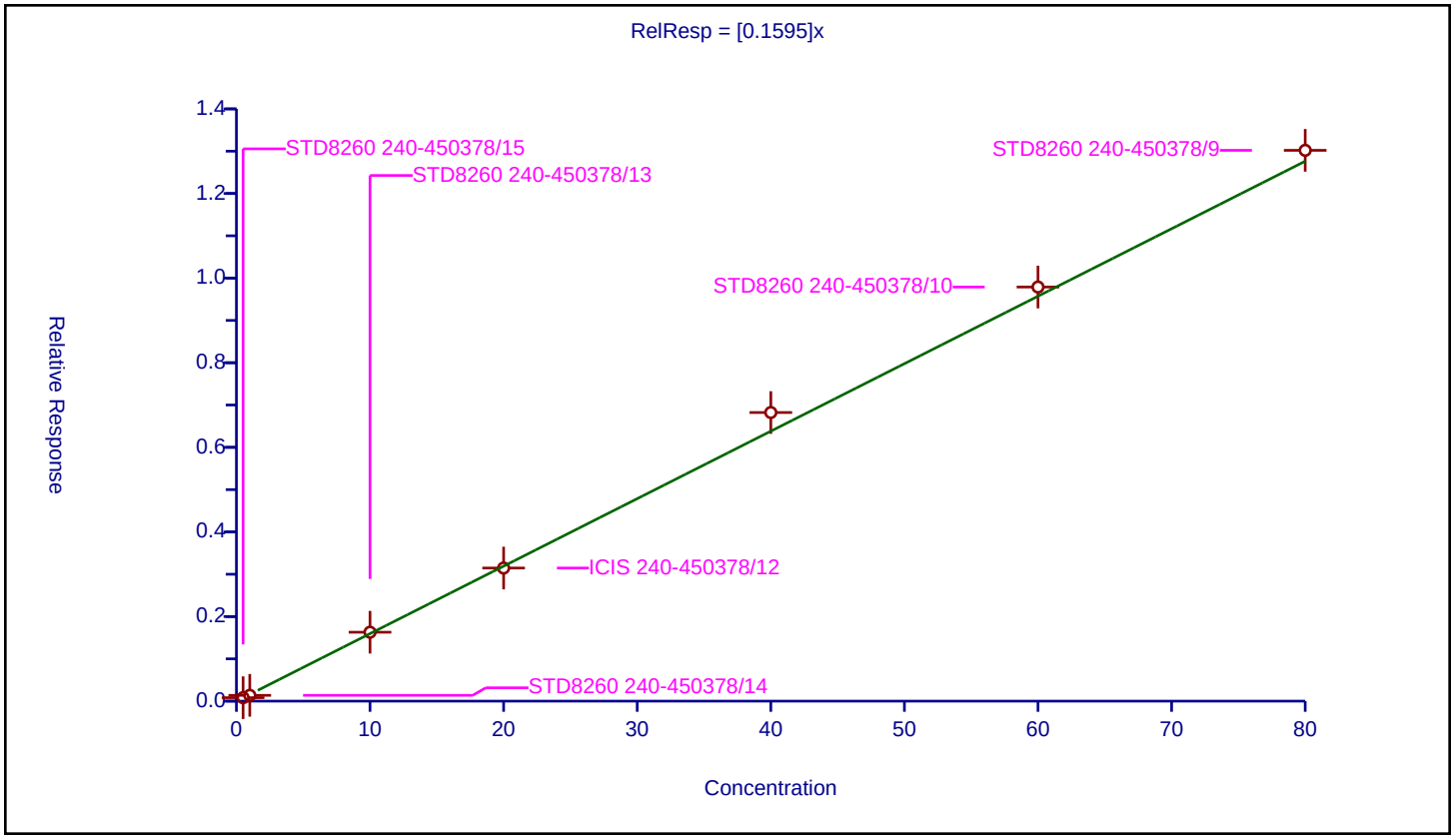
Curve Coefficients

Intercept:	0
Slope:	0.1595

Error Coefficients

Standard Error:	368000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.081574	20.0	841447.0	0.163148	Y
2	STD8260 240-450378/14	1.0	0.136891	20.0	857034.0	0.136891	Y
3	STD8260 240-450378/13	10.0	1.629088	20.0	949906.0	0.162909	Y
4	ICIS 240-450378/12	20.0	3.14666	20.0	955305.0	0.157333	Y
5	STD8260 240-450378/11	40.0	6.822749	20.0	985207.0	0.170569	Y
6	STD8260 240-450378/10	60.0	9.789088	20.0	986335.0	0.163151	Y
7	STD8260 240-450378/9	80.0	13.020097	20.0	1016272.0	0.162751	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

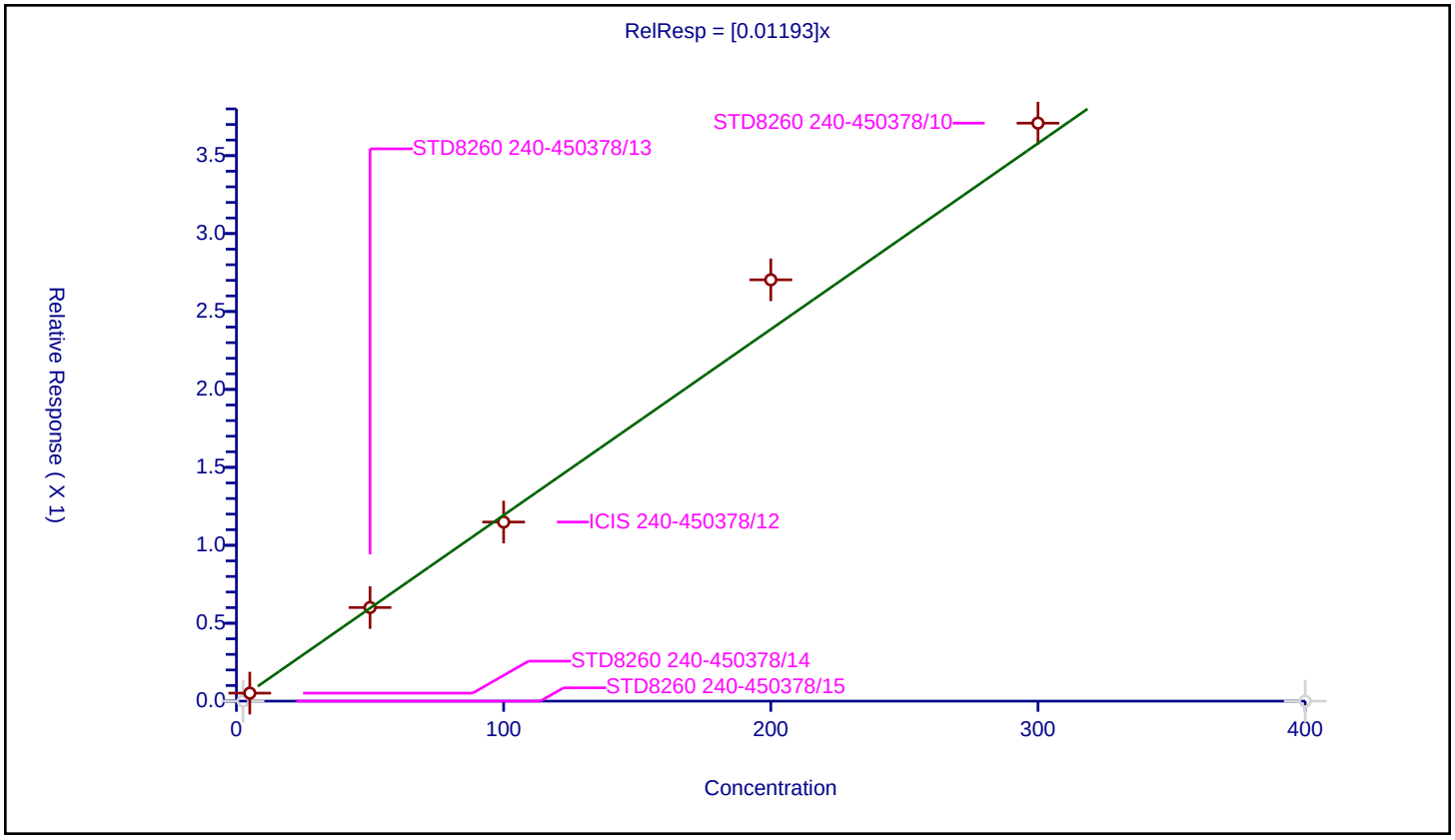
Curve Coefficients

Intercept:	0
Slope:	0.01193

Error Coefficients

Standard Error:	117000
Relative Standard Error:	10.0
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	2.5	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	5.0	0.051317	20.0	857034.0	0.010263	Y
3	STD8260 240-450378/13	50.0	0.600691	20.0	949906.0	0.012014	Y
4	ICIS 240-450378/12	100.0	1.149183	20.0	955305.0	0.011492	Y
5	STD8260 240-450378/11	200.0	2.703472	20.0	985207.0	0.013517	Y
6	STD8260 240-450378/10	300.0	3.708517	20.0	986335.0	0.012362	Y
7	STD8260 240-450378/9	400.0	0.0	20.0	1016272.0	0.0	N



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

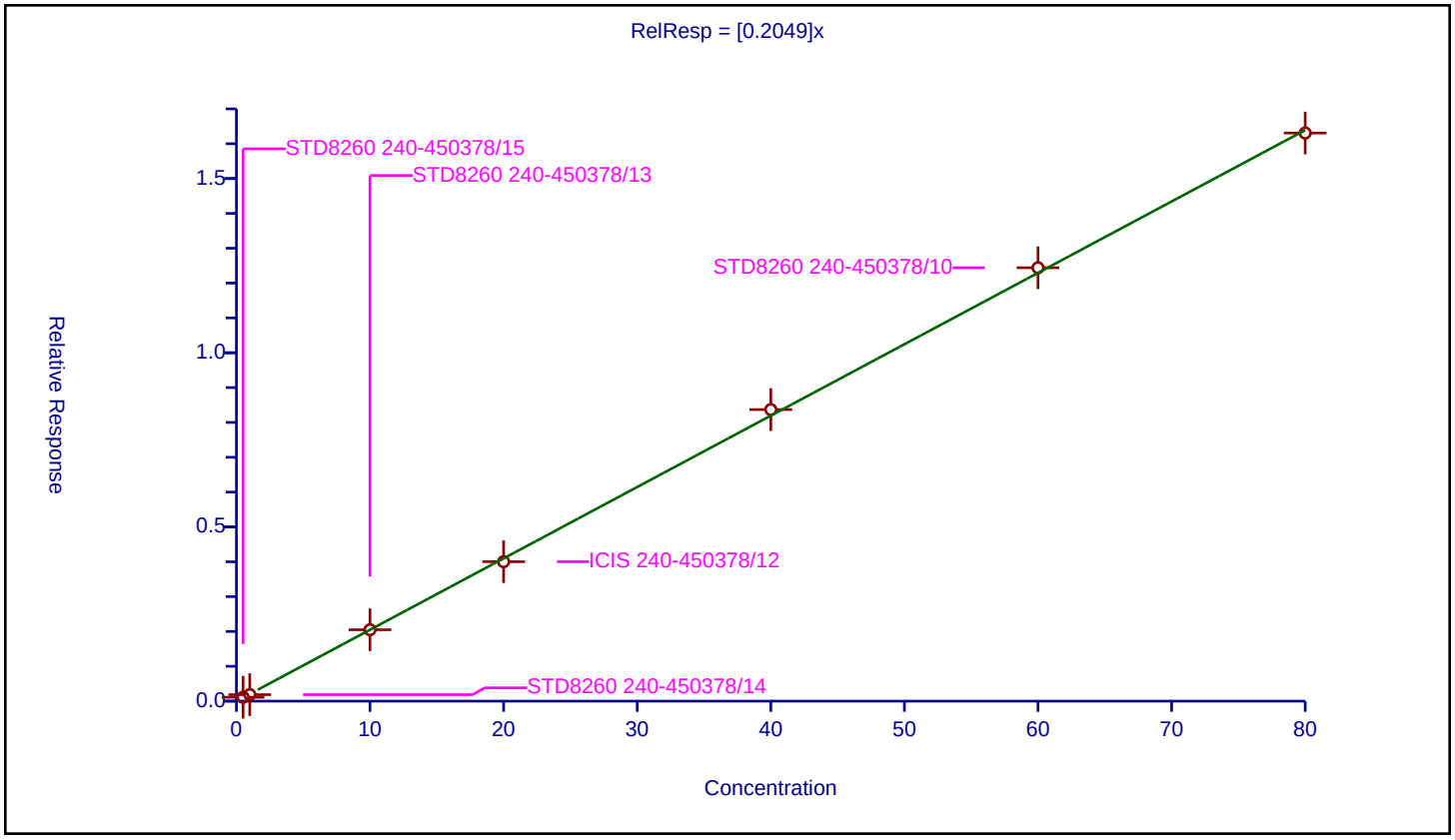
Curve Coefficients

Intercept:	0
Slope:	0.2049

Error Coefficients

Standard Error:	462000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.111118	20.0	841447.0	0.222236	Y
2	STD8260 240-450378/14	1.0	0.18648	20.0	857034.0	0.18648	Y
3	STD8260 240-450378/13	10.0	2.049298	20.0	949906.0	0.20493	Y
4	ICIS 240-450378/12	20.0	4.002533	20.0	955305.0	0.200127	Y
5	STD8260 240-450378/11	40.0	8.368455	20.0	985207.0	0.209211	Y
6	STD8260 240-450378/10	60.0	12.439486	20.0	986335.0	0.207325	Y
7	STD8260 240-450378/9	80.0	16.306501	20.0	1016272.0	0.203831	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

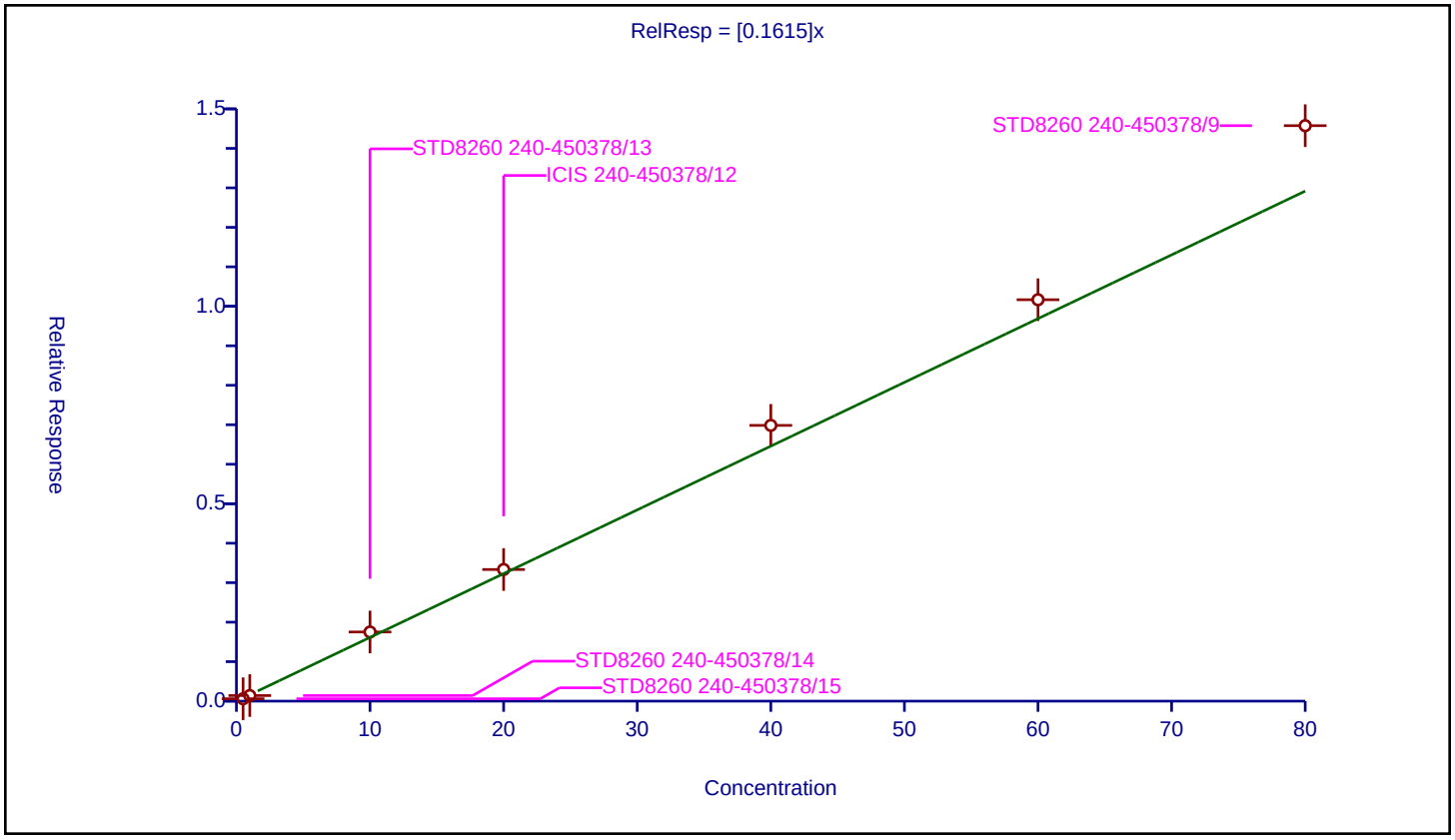
Curve Coefficients

Intercept:	0
Slope:	0.1615

Error Coefficients

Standard Error:	398000
Relative Standard Error:	13.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.06042	20.0	841447.0	0.120839	Y
2	STD8260 240-450378/14	1.0	0.141301	20.0	857034.0	0.141301	Y
3	STD8260 240-450378/13	10.0	1.751836	20.0	949906.0	0.175184	Y
4	ICIS 240-450378/12	20.0	3.334202	20.0	955305.0	0.16671	Y
5	STD8260 240-450378/11	40.0	6.984258	20.0	985207.0	0.174606	Y
6	STD8260 240-450378/10	60.0	10.166586	20.0	986335.0	0.169443	Y
7	STD8260 240-450378/9	80.0	14.575035	20.0	1016272.0	0.182188	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

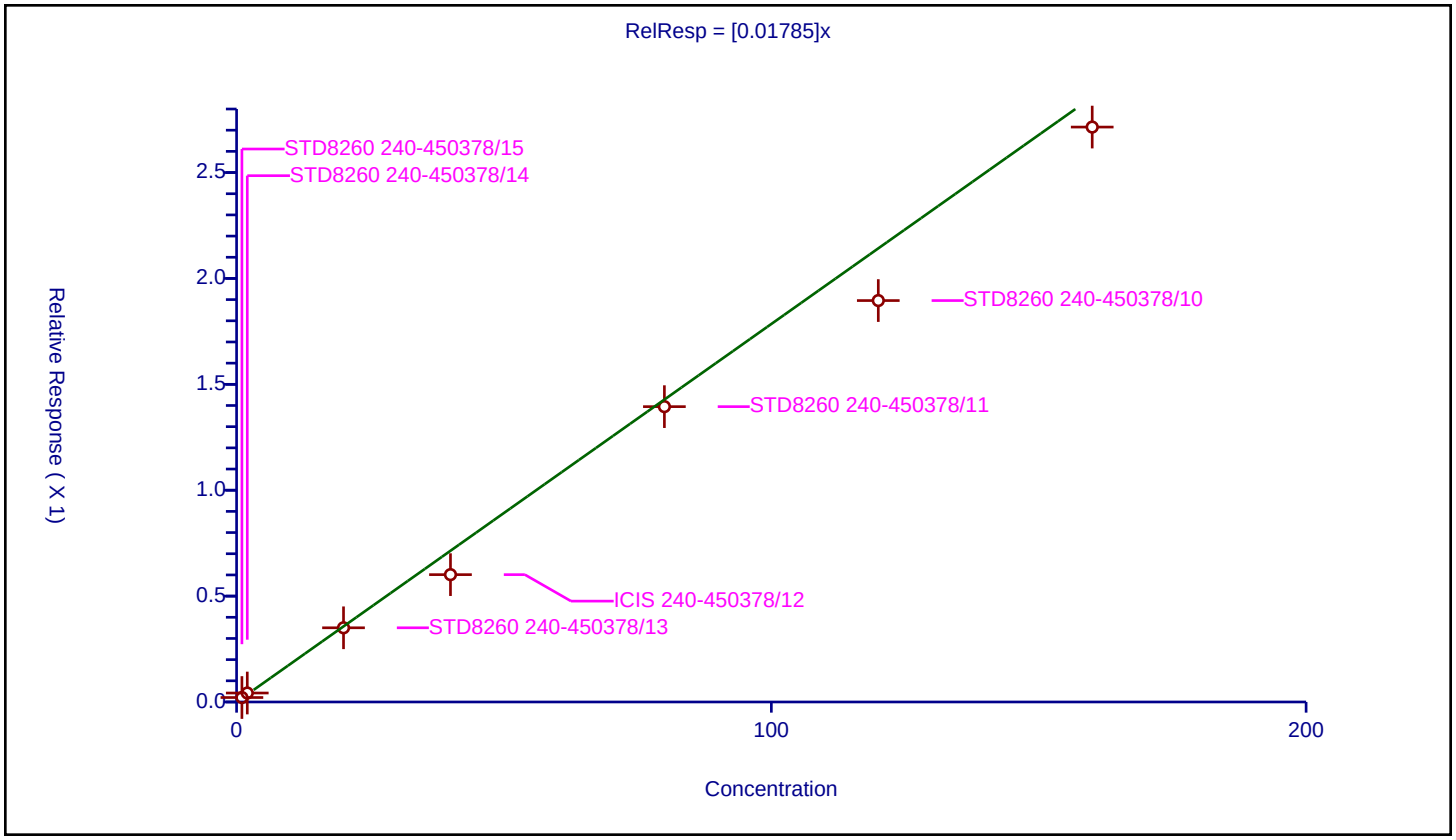
Curve Coefficients

Intercept:	0
Slope:	0.01785

Error Coefficients

Standard Error:	74800
Relative Standard Error:	13.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.021035	20.0	841447.0	0.021035	Y
2	STD8260 240-450378/14	2.0	0.042332	20.0	857034.0	0.021166	Y
3	STD8260 240-450378/13	20.0	0.350329	20.0	949906.0	0.017516	Y
4	ICIS 240-450378/12	40.0	0.601379	20.0	955305.0	0.015034	Y
5	STD8260 240-450378/11	80.0	1.39459	20.0	985207.0	0.017432	Y
6	STD8260 240-450378/10	120.0	1.895543	20.0	986335.0	0.015796	Y
7	STD8260 240-450378/9	160.0	2.714805	20.0	1016272.0	0.016968	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

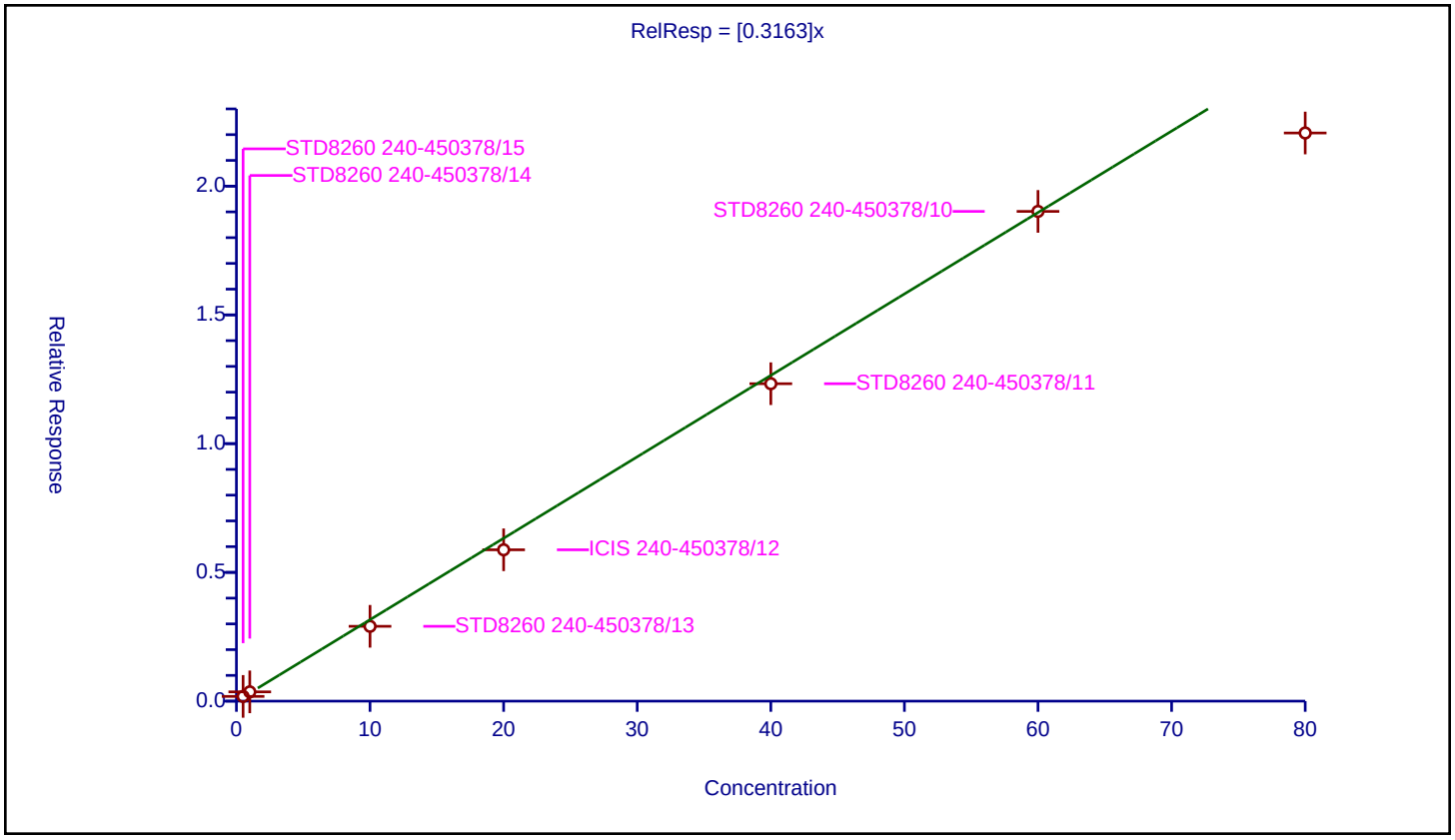
Curve Coefficients

Intercept:	0
Slope:	0.3163

Error Coefficients

Standard Error:	659000
Relative Standard Error:	11.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.183898	20.0	841447.0	0.367795	Y
2	STD8260 240-450378/14	1.0	0.360639	20.0	857034.0	0.360639	Y
3	STD8260 240-450378/13	10.0	2.905487	20.0	949906.0	0.290549	Y
4	ICIS 240-450378/12	20.0	5.877474	20.0	955305.0	0.293874	Y
5	STD8260 240-450378/11	40.0	12.327541	20.0	985207.0	0.308189	Y
6	STD8260 240-450378/10	60.0	19.018812	20.0	986335.0	0.31698	Y
7	STD8260 240-450378/9	80.0	22.063522	20.0	1016272.0	0.275794	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

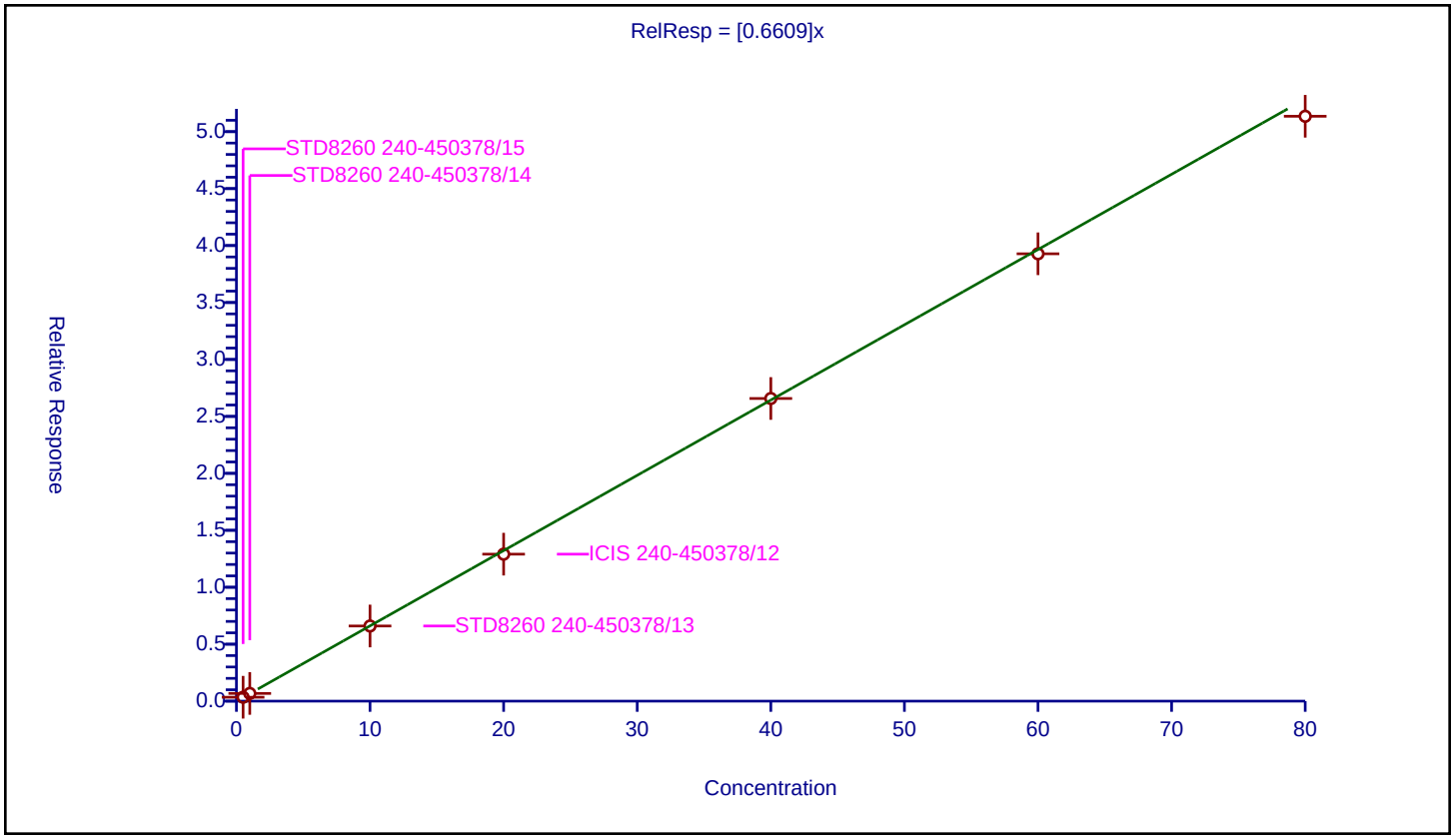
Curve Coefficients

Intercept:	0
Slope:	0.6609

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.341911	20.0	841447.0	0.683822	Y
2	STD8260 240-450378/14	1.0	0.676426	20.0	857034.0	0.676426	Y
3	STD8260 240-450378/13	10.0	6.598337	20.0	949906.0	0.659834	Y
4	ICIS 240-450378/12	20.0	12.904465	20.0	955305.0	0.645223	Y
5	STD8260 240-450378/11	40.0	26.57271	20.0	985207.0	0.664318	Y
6	STD8260 240-450378/10	60.0	39.277872	20.0	986335.0	0.654631	Y
7	STD8260 240-450378/9	80.0	51.353102	20.0	1016272.0	0.641914	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

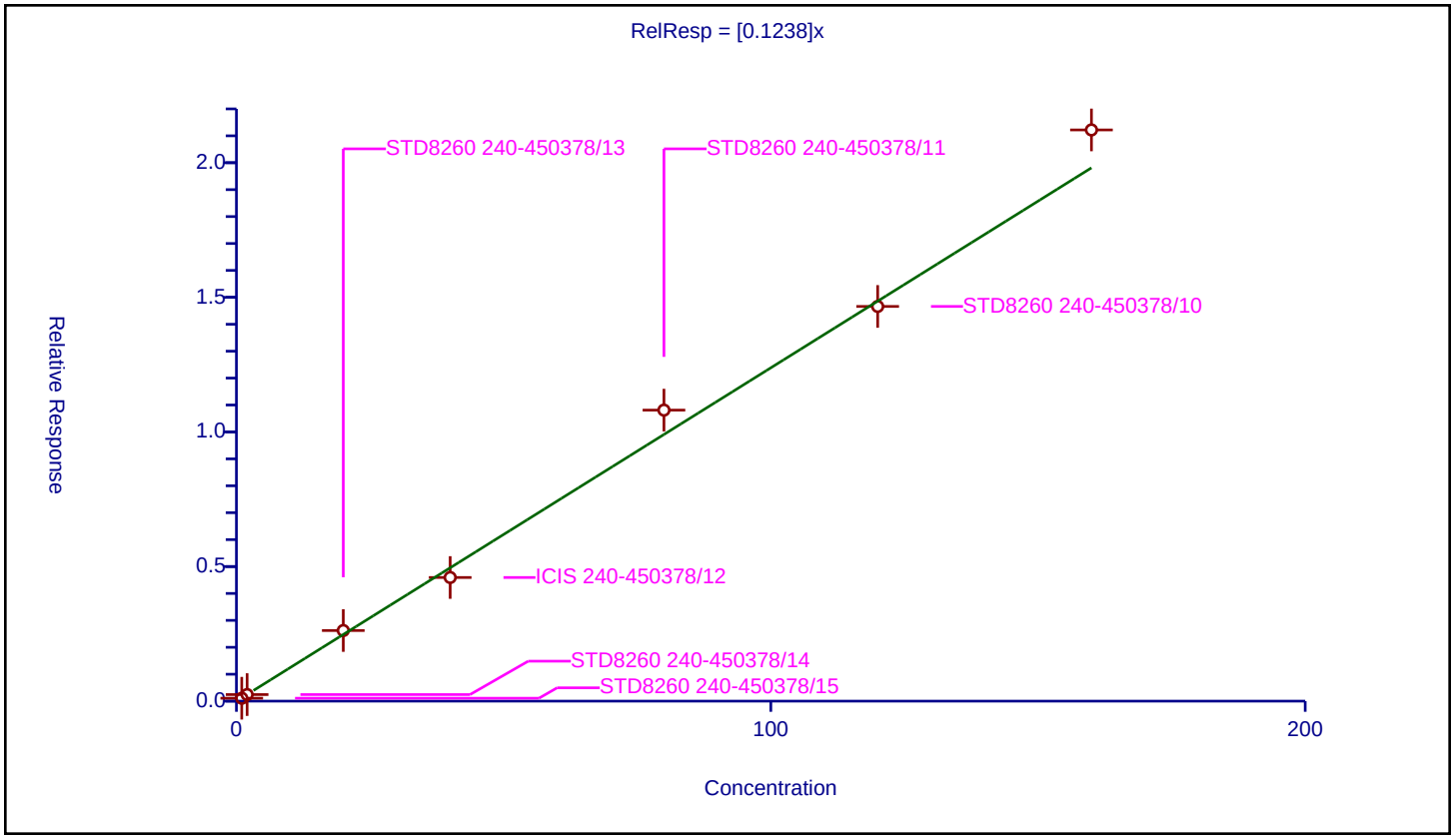
Curve Coefficients

Intercept:	0
Slope:	0.1238

Error Coefficients

Standard Error:	582000
Relative Standard Error:	7.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.108694	20.0	841447.0	0.108694	Y
2	STD8260 240-450378/14	2.0	0.244284	20.0	857034.0	0.122142	Y
3	STD8260 240-450378/13	20.0	2.622975	20.0	949906.0	0.131149	Y
4	ICIS 240-450378/12	40.0	4.592648	20.0	955305.0	0.114816	Y
5	STD8260 240-450378/11	80.0	10.810419	20.0	985207.0	0.13513	Y
6	STD8260 240-450378/10	120.0	14.661469	20.0	986335.0	0.122179	Y
7	STD8260 240-450378/9	160.0	21.218493	20.0	1016272.0	0.132616	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

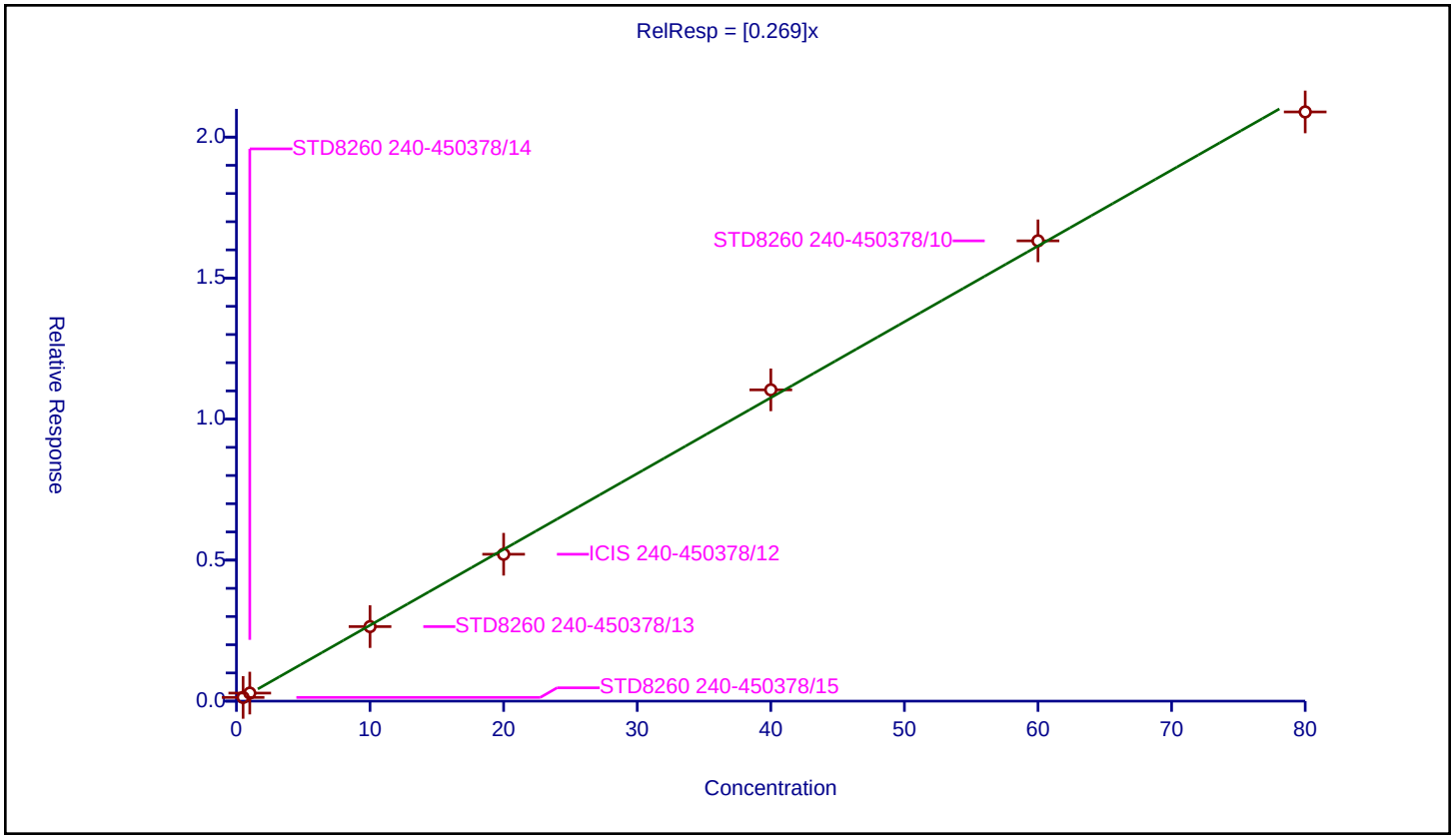
Curve Coefficients

Intercept:	0
Slope:	0.269

Error Coefficients

Standard Error:	598000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.13163	20.0	841447.0	0.263261	Y
2	STD8260 240-450378/14	1.0	0.285846	20.0	857034.0	0.285846	Y
3	STD8260 240-450378/13	10.0	2.642914	20.0	949906.0	0.264291	Y
4	ICIS 240-450378/12	20.0	5.208452	20.0	955305.0	0.260423	Y
5	STD8260 240-450378/11	40.0	11.037559	20.0	985207.0	0.275939	Y
6	STD8260 240-450378/10	60.0	16.321878	20.0	986335.0	0.272031	Y
7	STD8260 240-450378/9	80.0	20.892241	20.0	1016272.0	0.261153	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

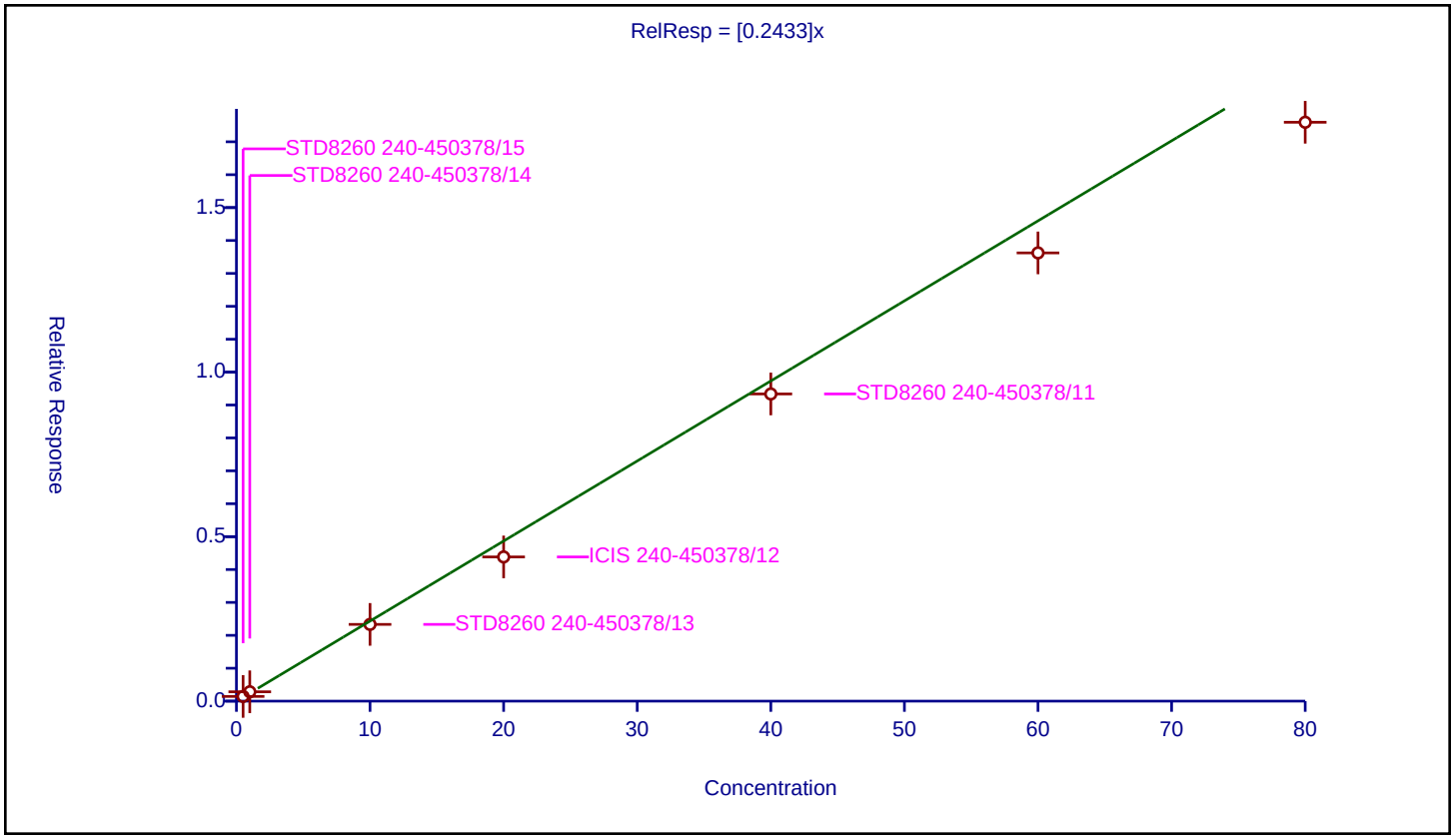
Curve Coefficients

Intercept:	0
Slope:	0.2433

Error Coefficients

Standard Error:	503000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.143016	20.0	841447.0	0.286031	Y
2	STD8260 240-450378/14	1.0	0.284166	20.0	857034.0	0.284166	Y
3	STD8260 240-450378/13	10.0	2.332862	20.0	949906.0	0.233286	Y
4	ICIS 240-450378/12	20.0	4.383312	20.0	955305.0	0.219166	Y
5	STD8260 240-450378/11	40.0	9.336048	20.0	985207.0	0.233401	Y
6	STD8260 240-450378/10	60.0	13.622937	20.0	986335.0	0.227049	Y
7	STD8260 240-450378/9	80.0	17.593597	20.0	1016272.0	0.21992	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

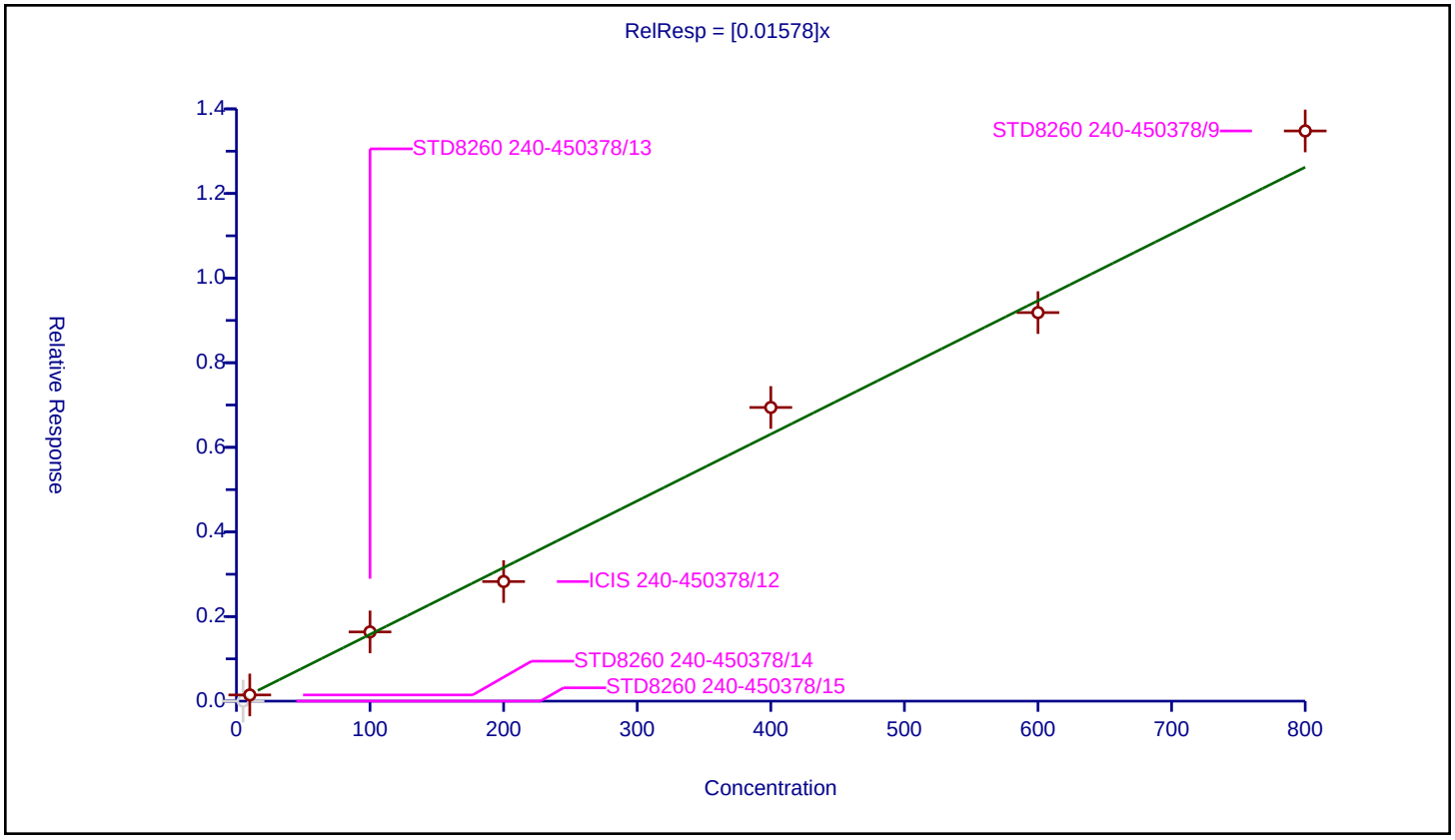
Curve Coefficients

Intercept:	0
Slope:	0.01578

Error Coefficients

Standard Error:	404000
Relative Standard Error:	8.1
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	5.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	10.0	0.146599	20.0	857034.0	0.01466	Y
3	STD8260 240-450378/13	100.0	1.635699	20.0	949906.0	0.016357	Y
4	ICIS 240-450378/12	200.0	2.827327	20.0	955305.0	0.014137	Y
5	STD8260 240-450378/11	400.0	6.9425	20.0	985207.0	0.017356	Y
6	STD8260 240-450378/10	600.0	9.184567	20.0	986335.0	0.015308	Y
7	STD8260 240-450378/9	800.0	13.478813	20.0	1016272.0	0.016849	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

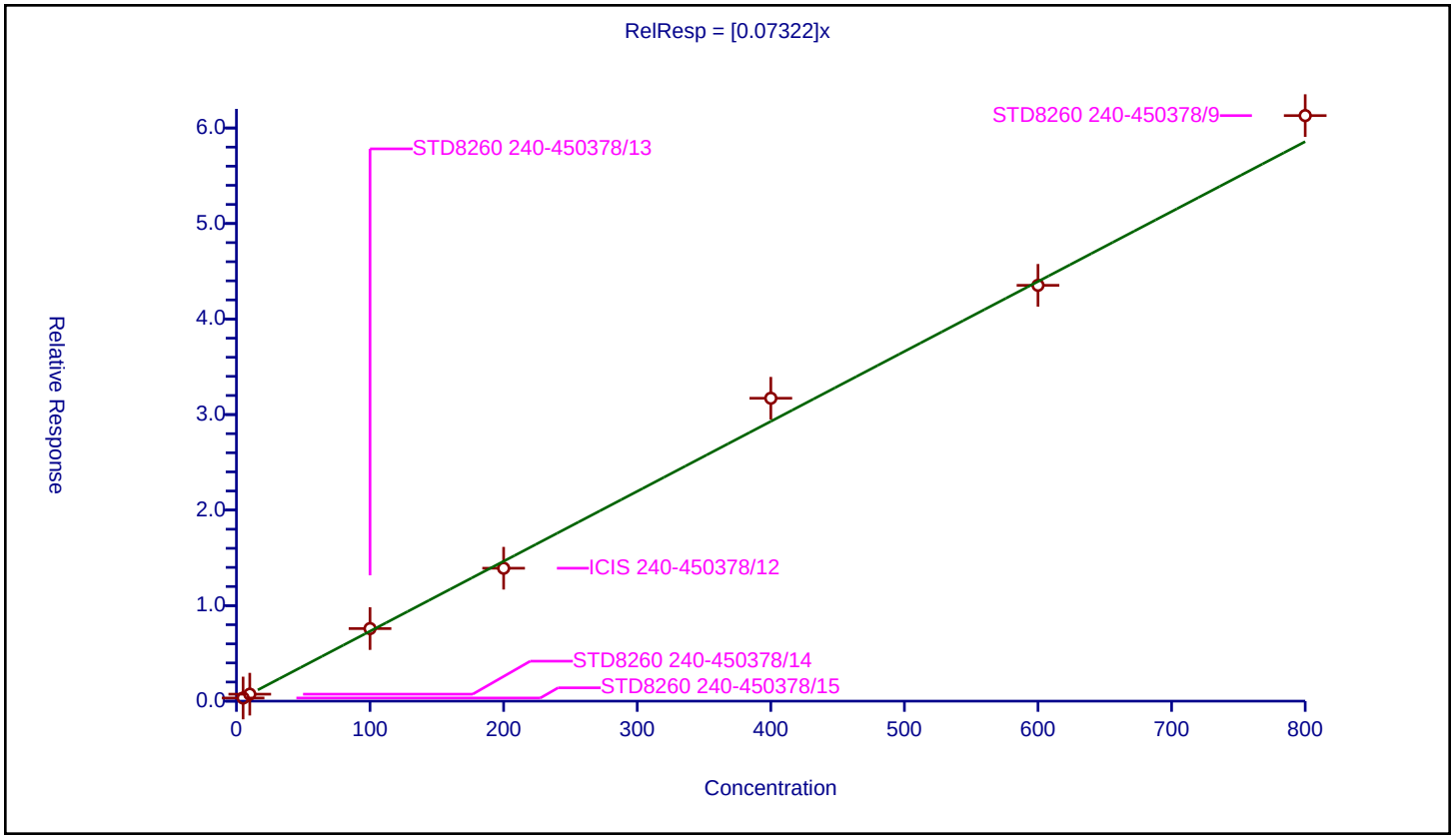
Curve Coefficients

Intercept:	0
Slope:	0.07322

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	6.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	5.0	0.32822	20.0	841447.0	0.065644	Y
2	STD8260 240-450378/14	10.0	0.728839	20.0	857034.0	0.072884	Y
3	STD8260 240-450378/13	100.0	7.59751	20.0	949906.0	0.075975	Y
4	ICIS 240-450378/12	200.0	13.913232	20.0	955305.0	0.069566	Y
5	STD8260 240-450378/11	400.0	31.709052	20.0	985207.0	0.079273	Y
6	STD8260 240-450378/10	600.0	43.531457	20.0	986335.0	0.072552	Y
7	STD8260 240-450378/9	800.0	61.298117	20.0	1016272.0	0.076623	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

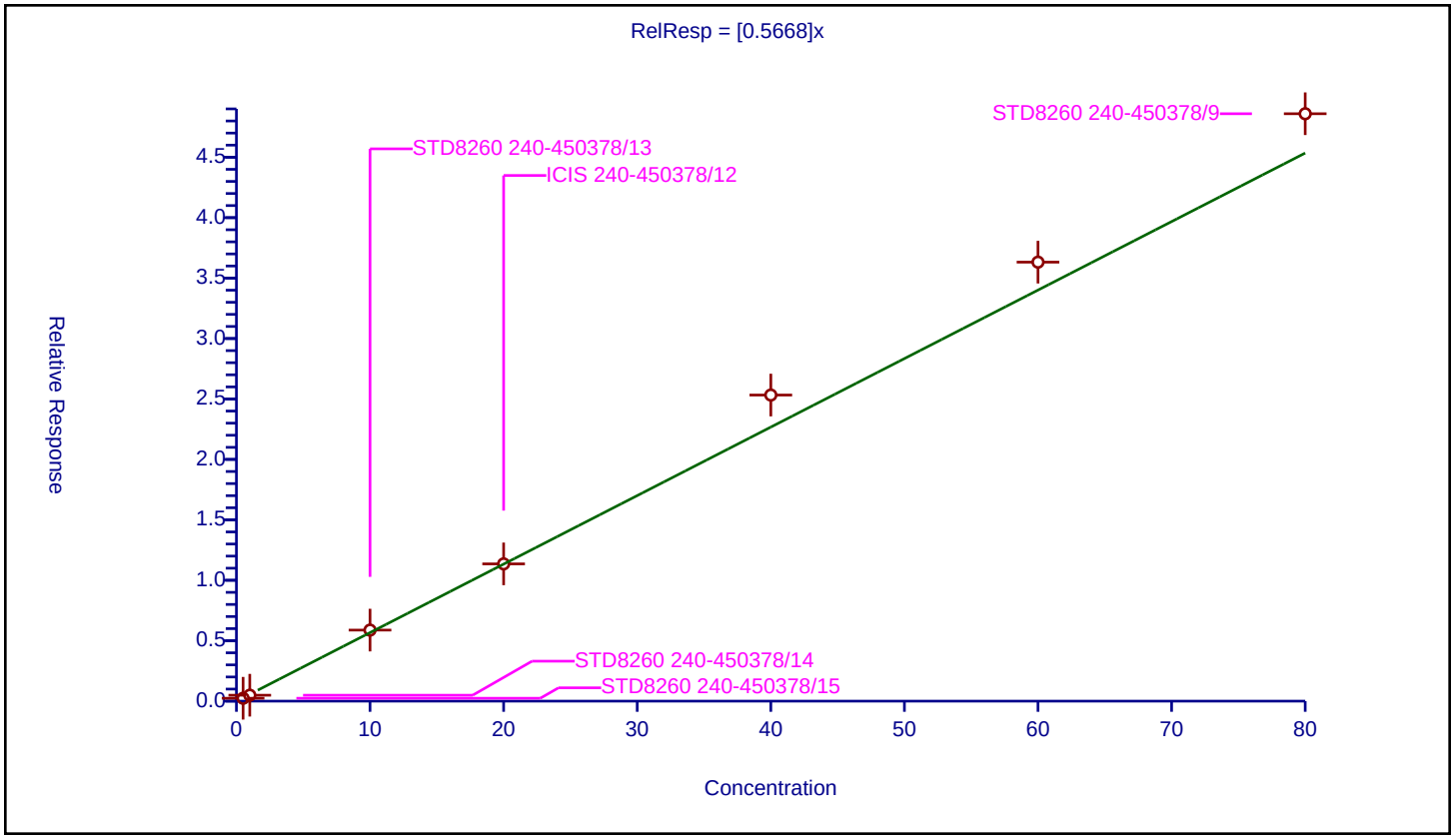
Curve Coefficients

Intercept:	0
Slope:	0.5668

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	10.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.238019	20.0	841447.0	0.476037	Y
2	STD8260 240-450378/14	1.0	0.490202	20.0	857034.0	0.490202	Y
3	STD8260 240-450378/13	10.0	5.877403	20.0	949906.0	0.58774	Y
4	ICIS 240-450378/12	20.0	11.356645	20.0	955305.0	0.567832	Y
5	STD8260 240-450378/11	40.0	25.325013	20.0	985207.0	0.633125	Y
6	STD8260 240-450378/10	60.0	36.320033	20.0	986335.0	0.605334	Y
7	STD8260 240-450378/9	80.0	48.598131	20.0	1016272.0	0.607477	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

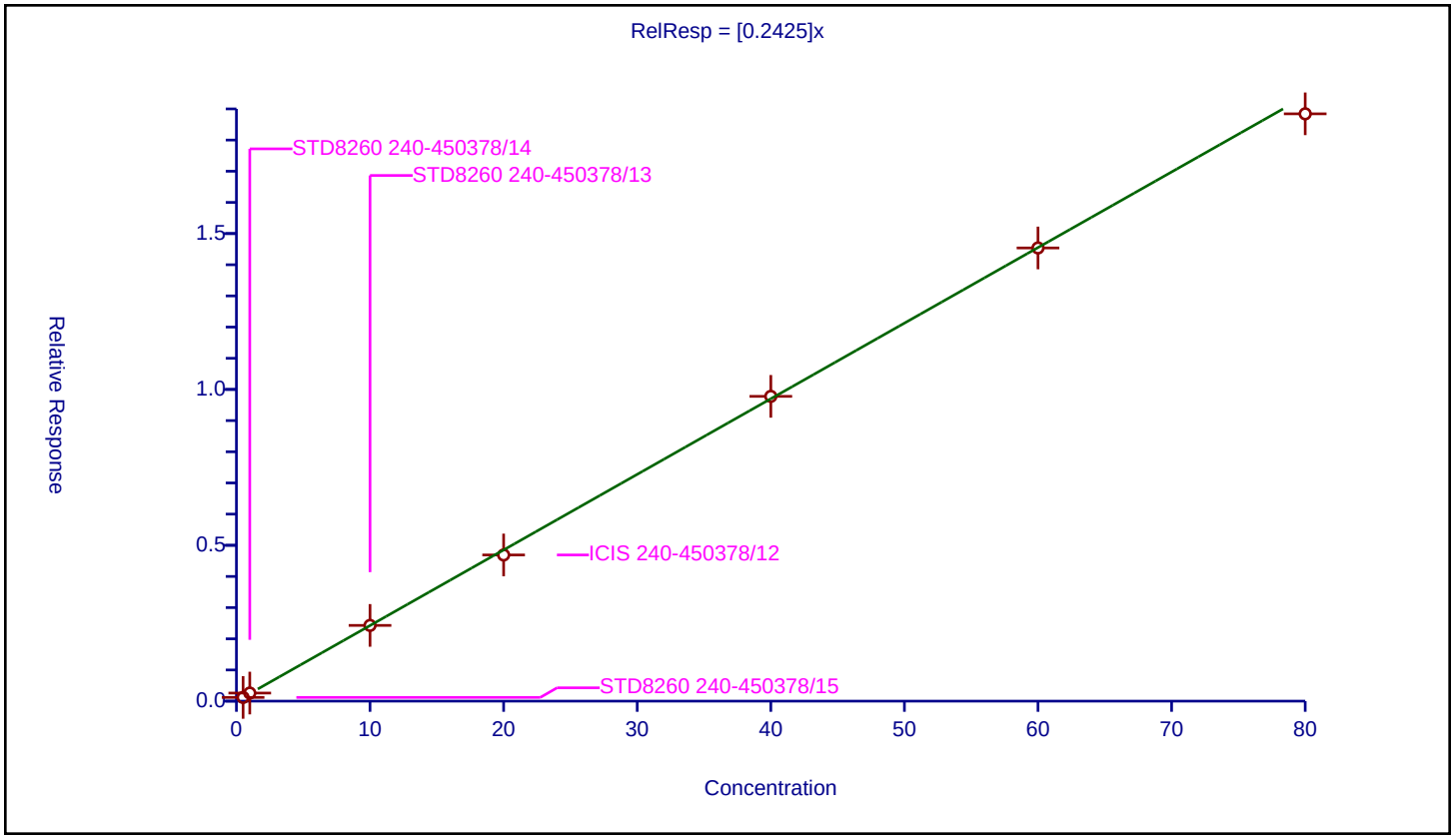
Curve Coefficients

Intercept:	0
Slope:	0.2425

Error Coefficients

Standard Error:	536000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.119176	20.0	841447.0	0.238351	Y
2	STD8260 240-450378/14	1.0	0.25964	20.0	857034.0	0.25964	Y
3	STD8260 240-450378/13	10.0	2.429251	20.0	949906.0	0.242925	Y
4	ICIS 240-450378/12	20.0	4.689644	20.0	955305.0	0.234482	Y
5	STD8260 240-450378/11	40.0	9.777803	20.0	985207.0	0.244445	Y
6	STD8260 240-450378/10	60.0	14.539218	20.0	986335.0	0.24232	Y
7	STD8260 240-450378/9	80.0	18.842337	20.0	1016272.0	0.235529	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

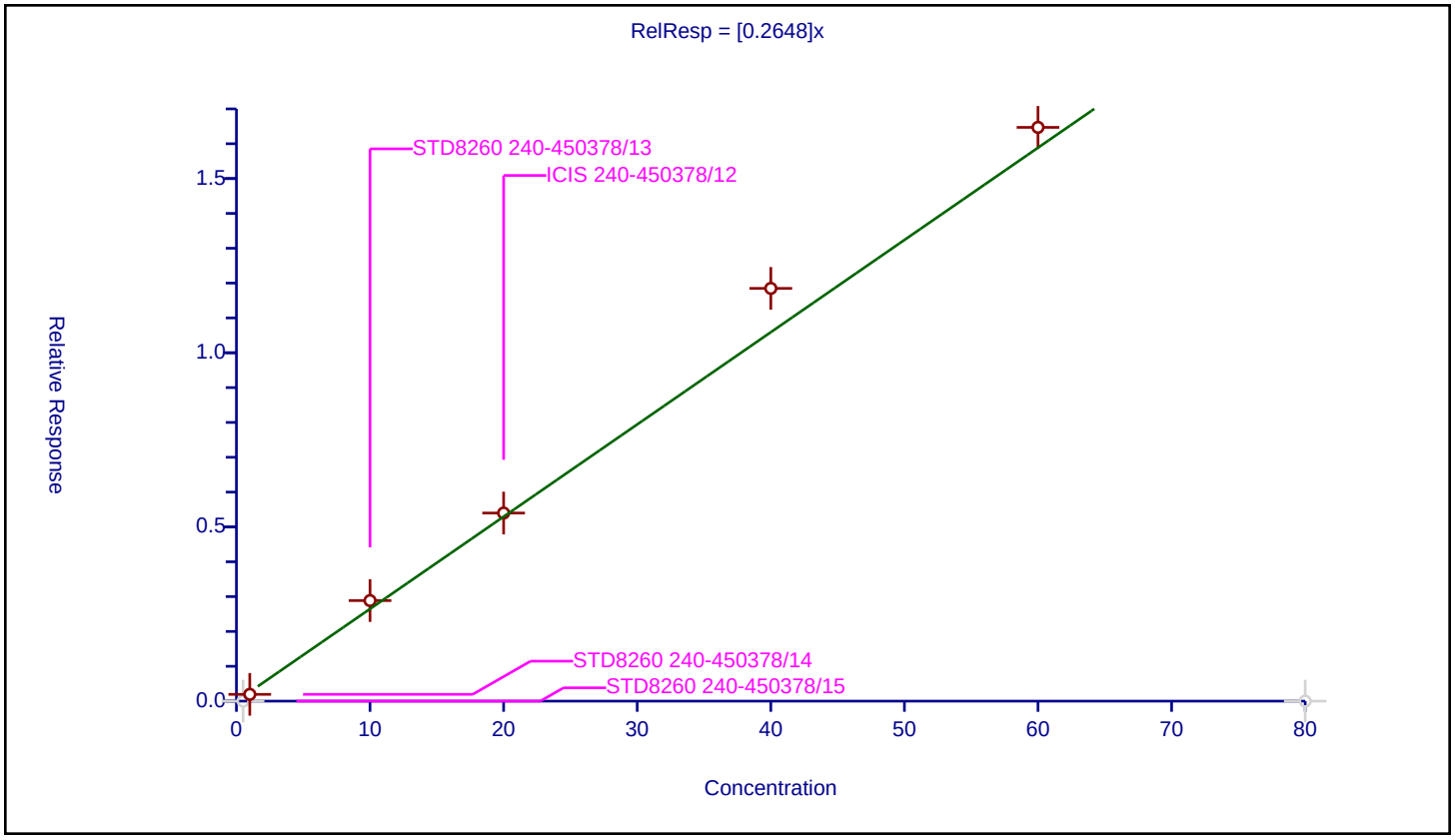
Curve Coefficients

Intercept:	0
Slope:	0.2648

Error Coefficients

Standard Error:	521000
Relative Standard Error:	15.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	1.0	0.194508	20.0	857034.0	0.194508	Y
3	STD8260 240-450378/13	10.0	2.886201	20.0	949906.0	0.28862	Y
4	ICIS 240-450378/12	20.0	5.39903	20.0	955305.0	0.269951	Y
5	STD8260 240-450378/11	40.0	11.847622	20.0	985207.0	0.296191	Y
6	STD8260 240-450378/10	60.0	16.469455	20.0	986335.0	0.274491	Y
7	STD8260 240-450378/9	80.0	0.0	20.0	1016272.0	0.0	N



Calibration / Vinyl acetate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

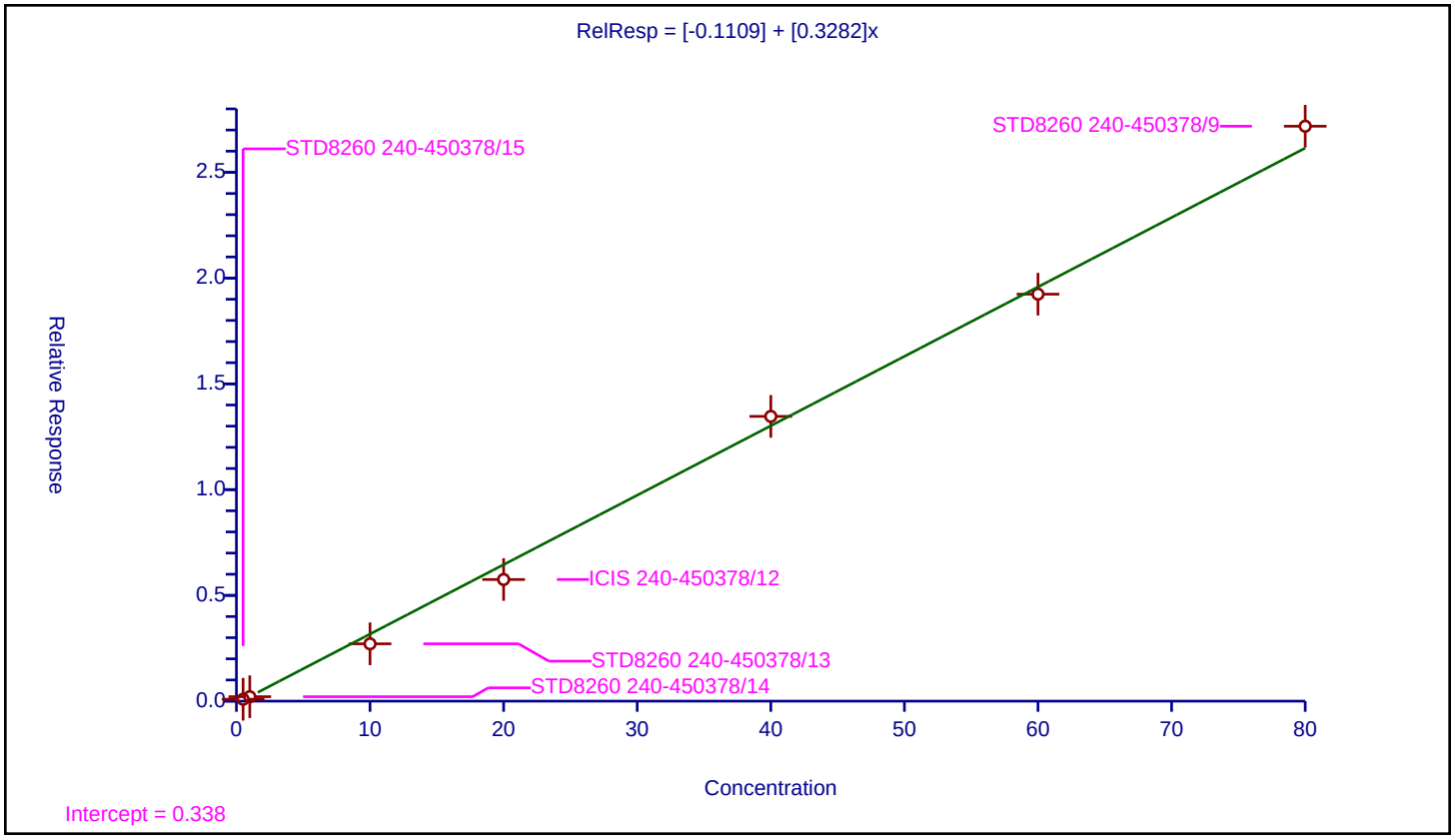
Curve Coefficients

Intercept:	-0.1109
Slope:	0.3282

Error Coefficients

Standard Error:	817000
Relative Standard Error:	12.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.088681	20.0	841447.0	0.177361	Y
2	STD8260 240-450378/14	1.0	0.20928	20.0	857034.0	0.20928	Y
3	STD8260 240-450378/13	10.0	2.710268	20.0	949906.0	0.271027	Y
4	ICIS 240-450378/12	20.0	5.750331	20.0	955305.0	0.287517	Y
5	STD8260 240-450378/11	40.0	13.462227	20.0	985207.0	0.336556	Y
6	STD8260 240-450378/10	60.0	19.240643	20.0	986335.0	0.320677	Y
7	STD8260 240-450378/9	80.0	27.180499	20.0	1016272.0	0.339756	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

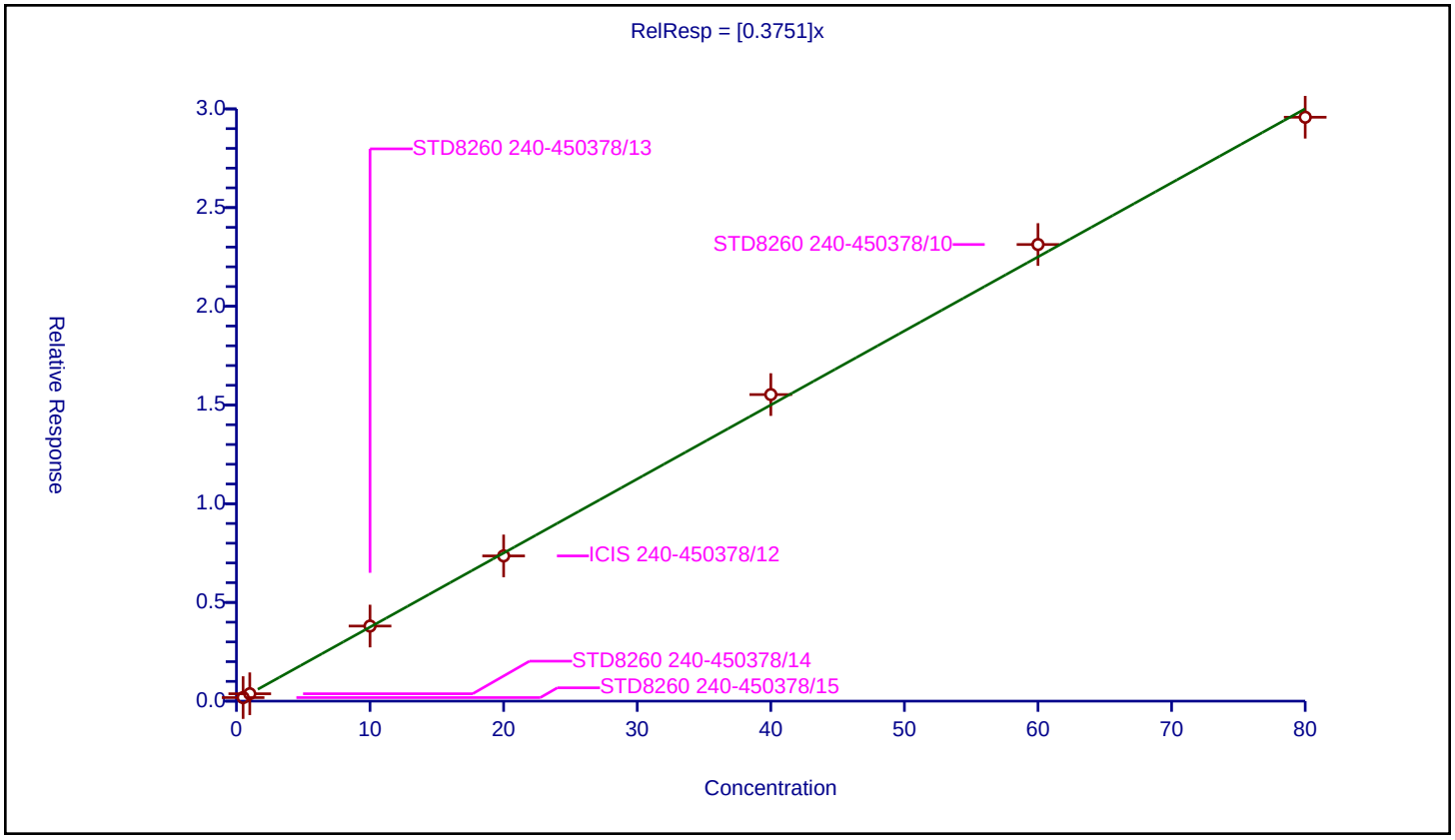
Curve Coefficients

Intercept:	0
Slope:	0.3751

Error Coefficients

Standard Error:	847000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.179453	20.0	841447.0	0.358906	Y
2	STD8260 240-450378/14	1.0	0.374944	20.0	857034.0	0.374944	Y
3	STD8260 240-450378/13	10.0	3.804082	20.0	949906.0	0.380408	Y
4	ICIS 240-450378/12	20.0	7.35652	20.0	955305.0	0.367826	Y
5	STD8260 240-450378/11	40.0	15.529183	20.0	985207.0	0.38823	Y
6	STD8260 240-450378/10	60.0	23.130052	20.0	986335.0	0.385501	Y
7	STD8260 240-450378/9	80.0	29.578105	20.0	1016272.0	0.369726	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

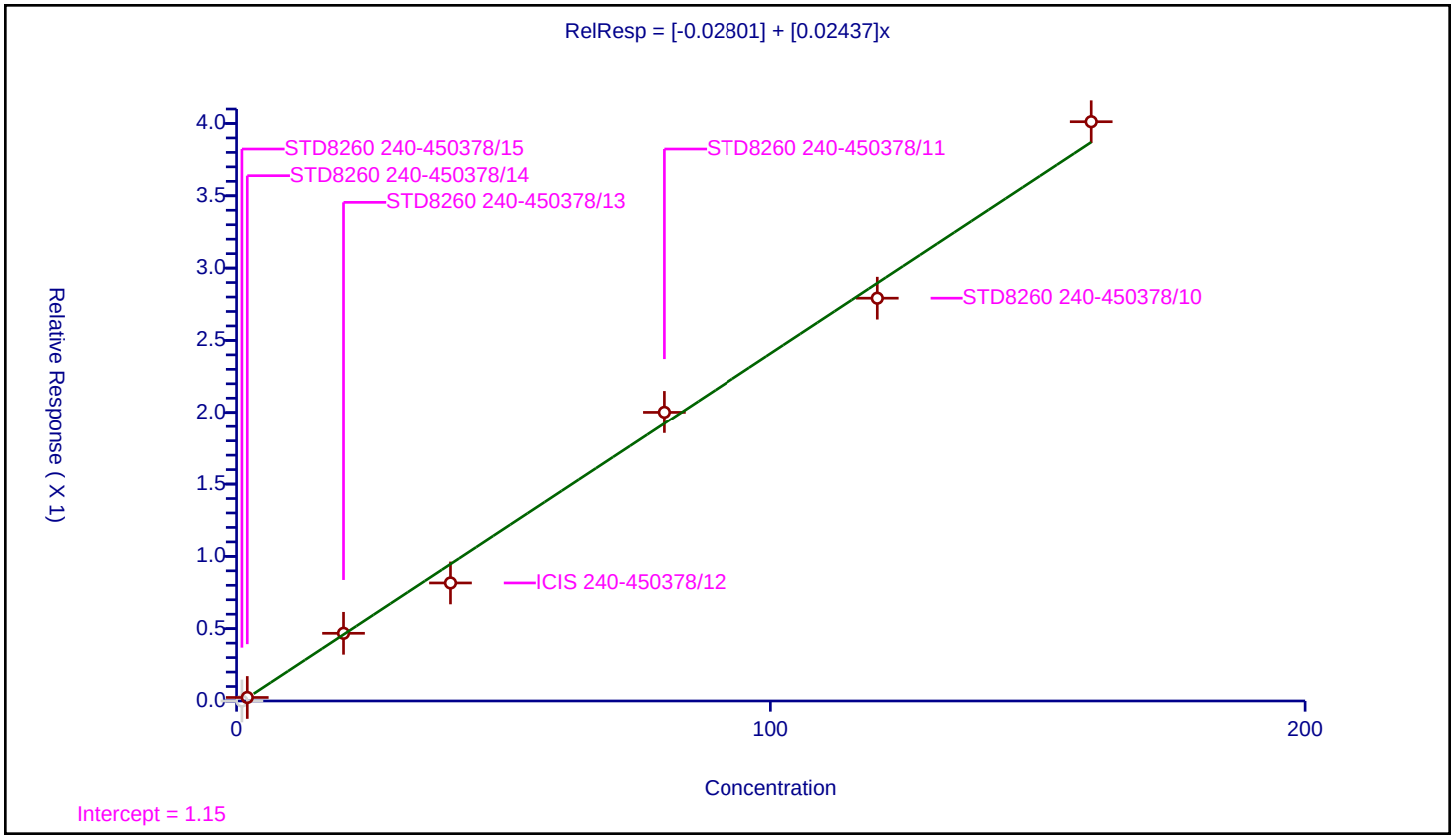
Curve Coefficients

Intercept:	-0.02801
Slope:	0.02437

Error Coefficients

Standard Error:	134000
Relative Standard Error:	8.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	2.0	0.024316	20.0	857034.0	0.012158	Y
3	STD8260 240-450378/13	20.0	0.468088	20.0	949906.0	0.023404	Y
4	ICIS 240-450378/12	40.0	0.816242	20.0	955305.0	0.020406	Y
5	STD8260 240-450378/11	80.0	2.002158	20.0	985207.0	0.025027	Y
6	STD8260 240-450378/10	120.0	2.791993	20.0	986335.0	0.023267	Y
7	STD8260 240-450378/9	160.0	4.012272	20.0	1016272.0	0.025077	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

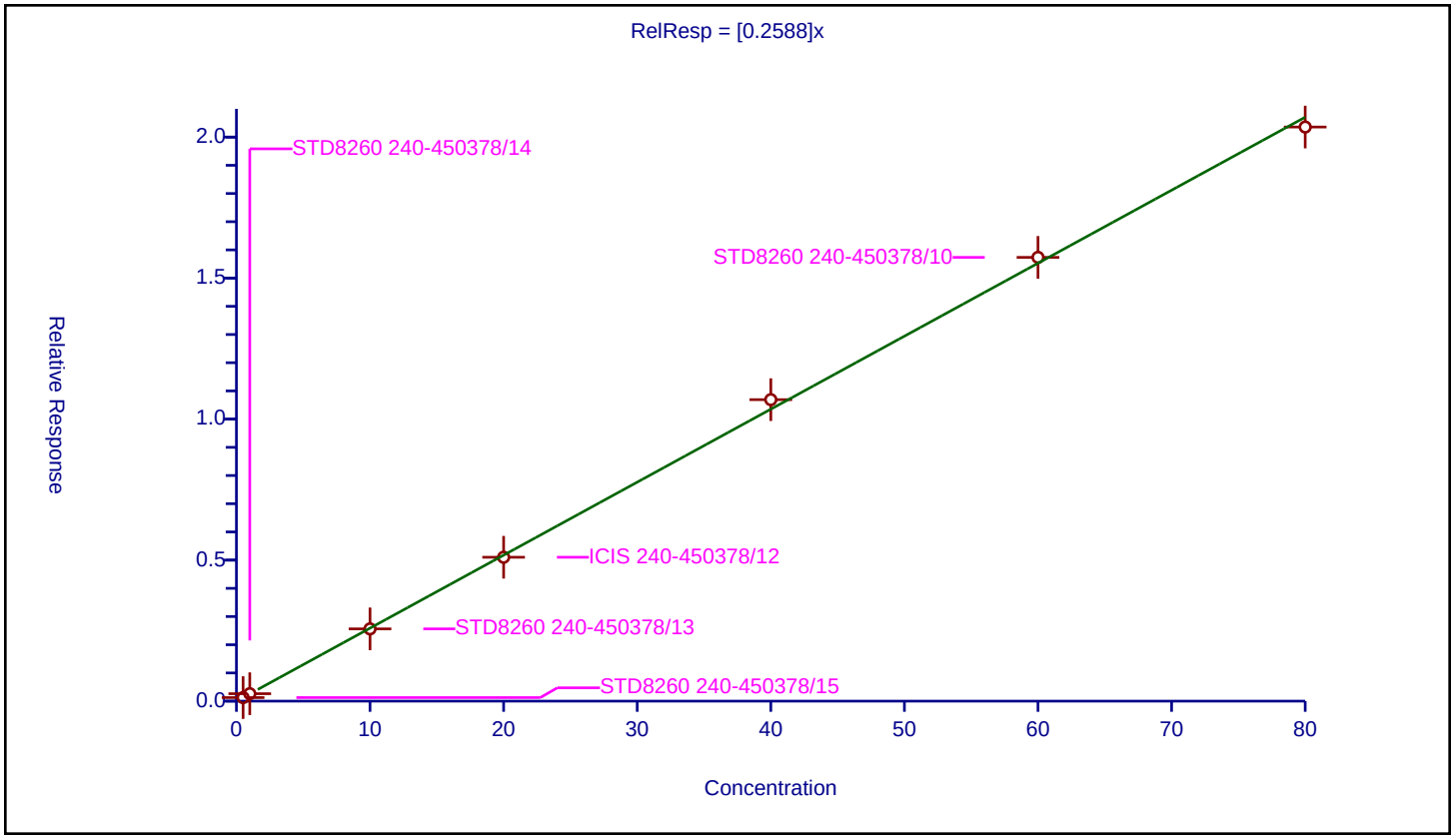
Curve Coefficients

Intercept:	0
Slope:	0.2588

Error Coefficients

Standard Error:	581000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.126045	20.0	841447.0	0.25209	Y
2	STD8260 240-450378/14	1.0	0.264307	20.0	857034.0	0.264307	Y
3	STD8260 240-450378/13	10.0	2.562485	20.0	949906.0	0.256249	Y
4	ICIS 240-450378/12	20.0	5.10237	20.0	955305.0	0.255119	Y
5	STD8260 240-450378/11	40.0	10.690322	20.0	985207.0	0.267258	Y
6	STD8260 240-450378/10	60.0	15.73506	20.0	986335.0	0.262251	Y
7	STD8260 240-450378/9	80.0	20.356814	20.0	1016272.0	0.25446	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

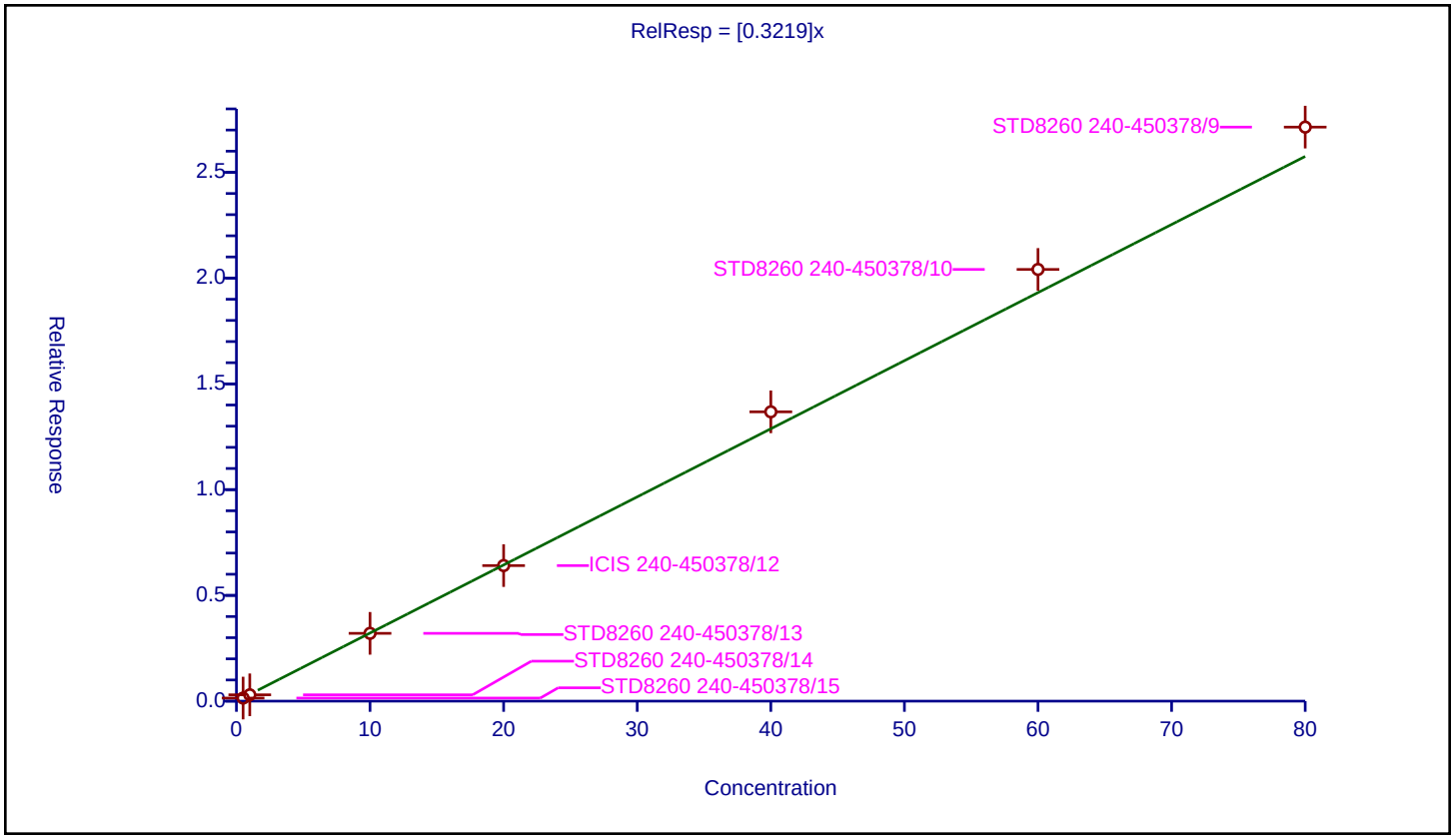
Curve Coefficients

Intercept:	0
Slope:	0.3219

Error Coefficients

Standard Error:	762000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.145892	20.0	841447.0	0.291783	Y
2	STD8260 240-450378/14	1.0	0.299335	20.0	857034.0	0.299335	Y
3	STD8260 240-450378/13	10.0	3.205454	20.0	949906.0	0.320545	Y
4	ICIS 240-450378/12	20.0	6.408571	20.0	955305.0	0.320429	Y
5	STD8260 240-450378/11	40.0	13.67806	20.0	985207.0	0.341951	Y
6	STD8260 240-450378/10	60.0	20.409354	20.0	986335.0	0.340156	Y
7	STD8260 240-450378/9	80.0	27.13927	20.0	1016272.0	0.339241	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

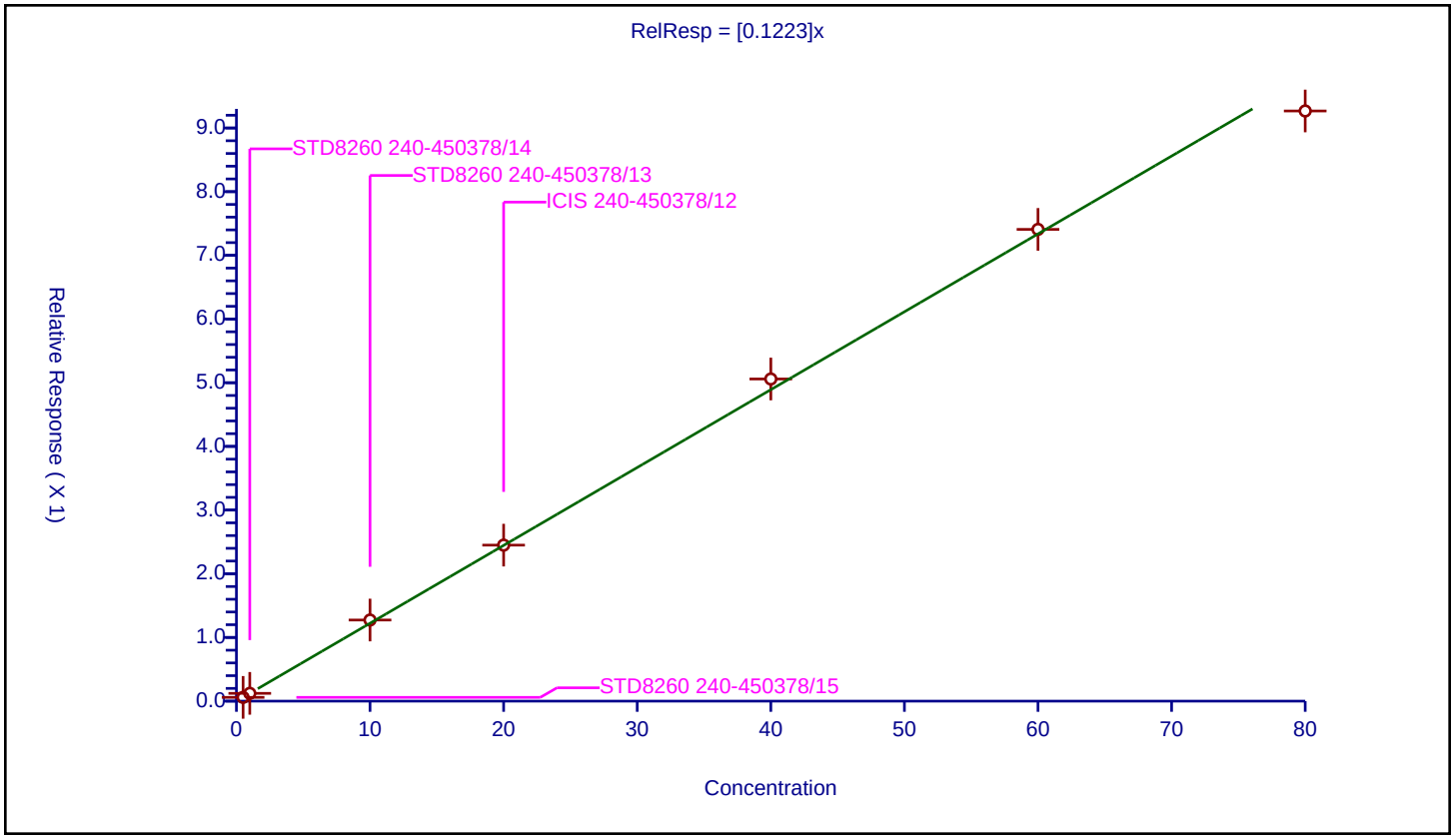
Curve Coefficients

Intercept:	0
Slope:	0.1223

Error Coefficients

Standard Error:	269000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.058994	20.0	841447.0	0.117987	Y
2	STD8260 240-450378/14	1.0	0.122329	20.0	857034.0	0.122329	Y
3	STD8260 240-450378/13	10.0	1.273789	20.0	949906.0	0.127379	Y
4	ICIS 240-450378/12	20.0	2.449626	20.0	955305.0	0.122481	Y
5	STD8260 240-450378/11	40.0	5.058876	20.0	985207.0	0.126472	Y
6	STD8260 240-450378/10	60.0	7.407727	20.0	986335.0	0.123462	Y
7	STD8260 240-450378/9	80.0	9.267401	20.0	1016272.0	0.115843	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

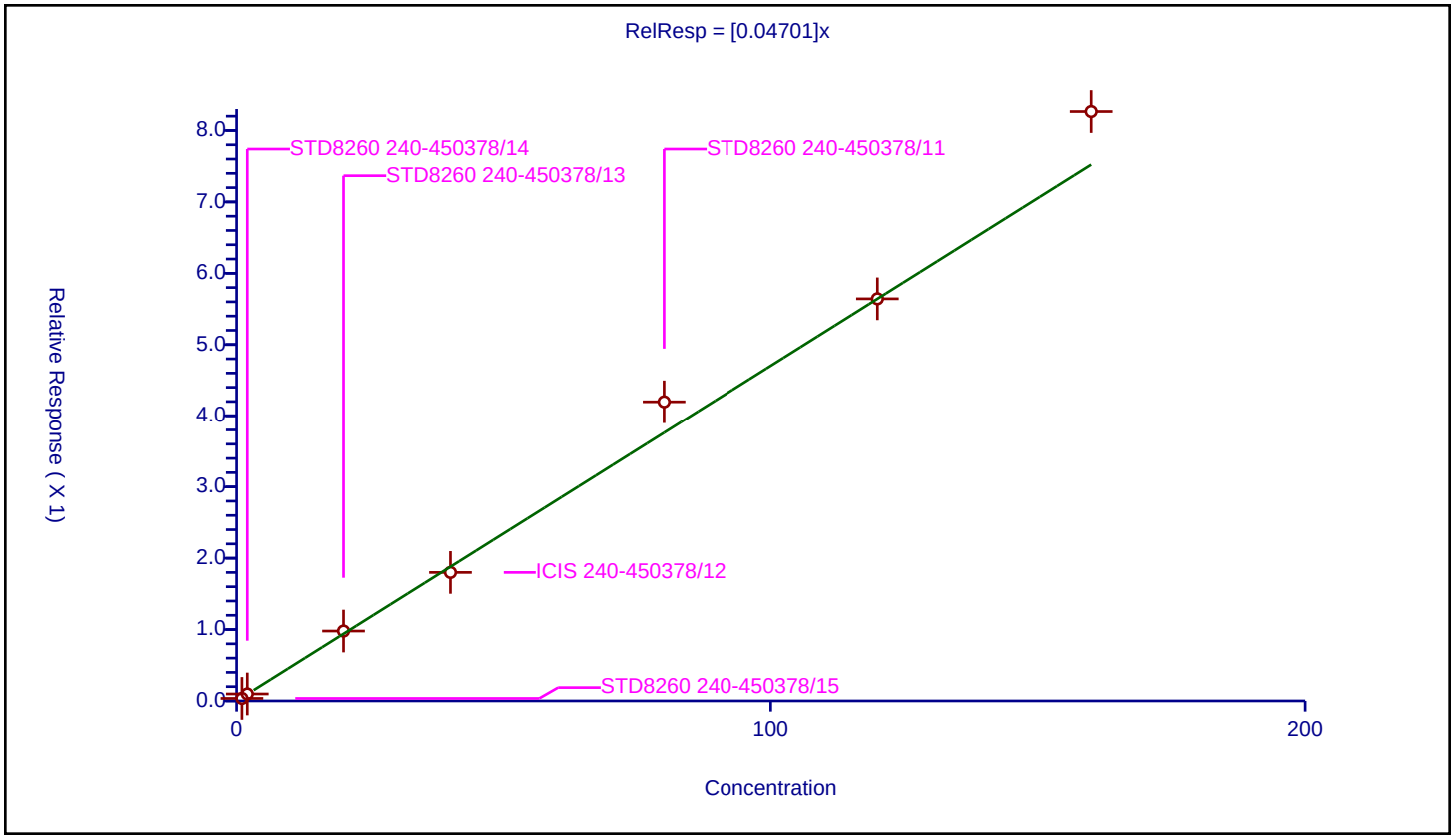
Curve Coefficients

Intercept:	0
Slope:	0.04701

Error Coefficients

Standard Error:	226000
Relative Standard Error:	12.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.03513	20.0	841447.0	0.03513	Y
2	STD8260 240-450378/14	2.0	0.097709	20.0	857034.0	0.048855	Y
3	STD8260 240-450378/13	20.0	0.979402	20.0	949906.0	0.04897	Y
4	ICIS 240-450378/12	40.0	1.800242	20.0	955305.0	0.045006	Y
5	STD8260 240-450378/11	80.0	4.196519	20.0	985207.0	0.052456	Y
6	STD8260 240-450378/10	120.0	5.641998	20.0	986335.0	0.047017	Y
7	STD8260 240-450378/9	160.0	8.265031	20.0	1016272.0	0.051656	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

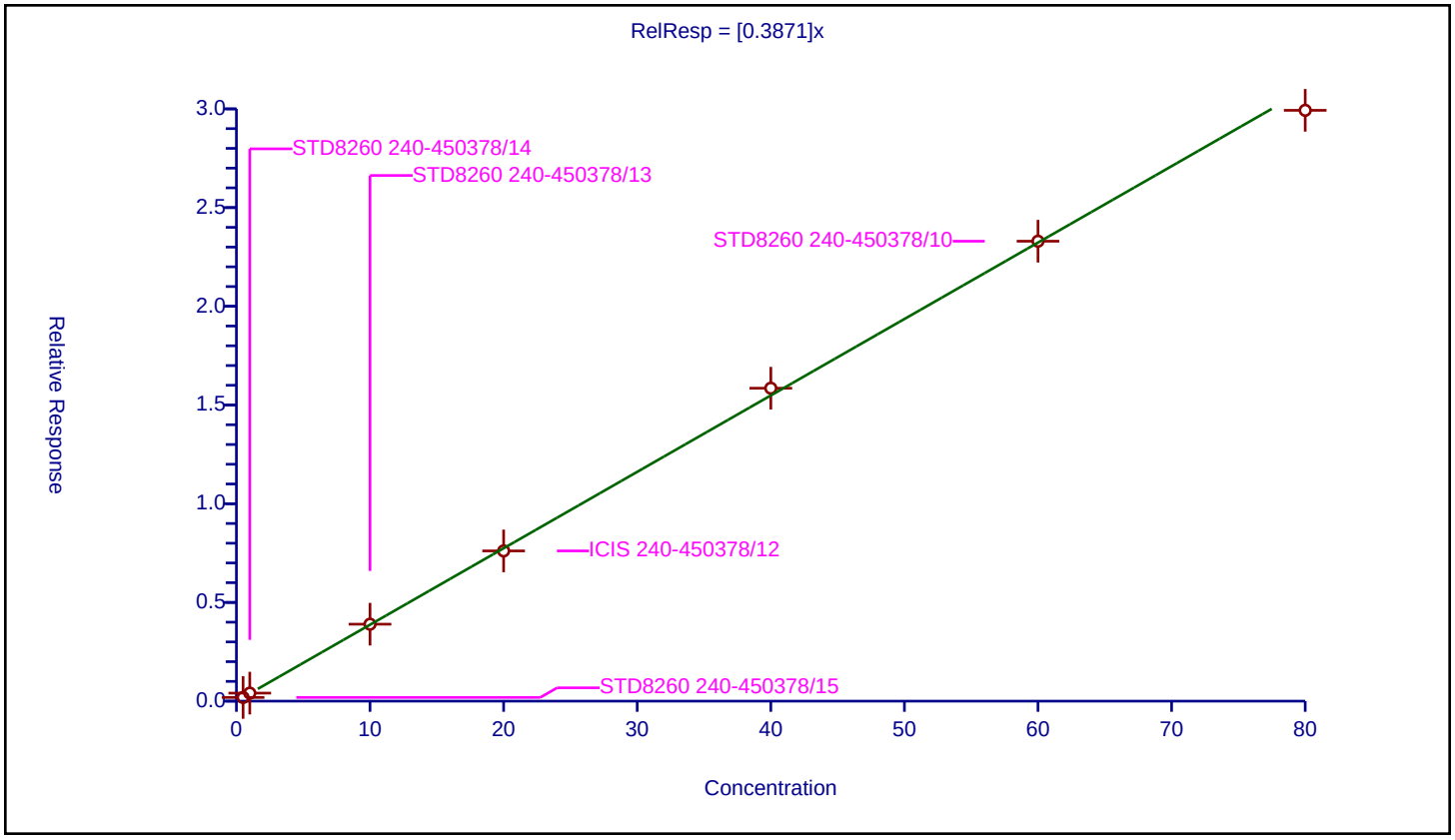
Curve Coefficients

Intercept:	0
Slope:	0.3871

Error Coefficients

Standard Error:	857000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.187296	20.0	841447.0	0.374593	Y
2	STD8260 240-450378/14	1.0	0.406262	20.0	857034.0	0.406262	Y
3	STD8260 240-450378/13	10.0	3.898765	20.0	949906.0	0.389876	Y
4	ICIS 240-450378/12	20.0	7.60936	20.0	955305.0	0.380468	Y
5	STD8260 240-450378/11	40.0	15.851877	20.0	985207.0	0.396297	Y
6	STD8260 240-450378/10	60.0	23.297906	20.0	986335.0	0.388298	Y
7	STD8260 240-450378/9	80.0	29.927008	20.0	1016272.0	0.374088	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

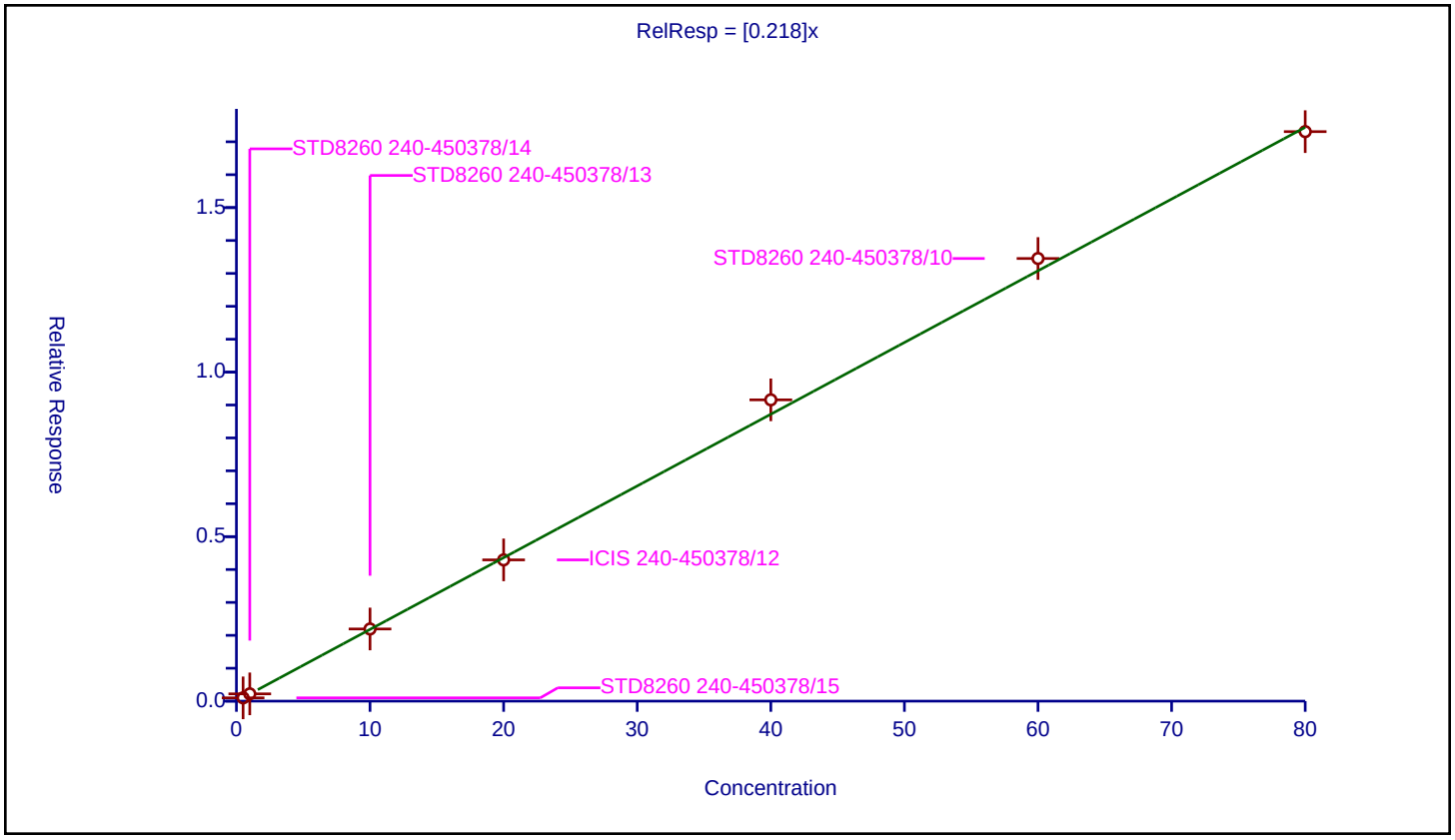
Curve Coefficients

Intercept:	0
Slope:	0.218

Error Coefficients

Standard Error:	495000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.100327	20.0	841447.0	0.200654	Y
2	STD8260 240-450378/14	1.0	0.221788	20.0	857034.0	0.221788	Y
3	STD8260 240-450378/13	10.0	2.193628	20.0	949906.0	0.219363	Y
4	ICIS 240-450378/12	20.0	4.292807	20.0	955305.0	0.21464	Y
5	STD8260 240-450378/11	40.0	9.15704	20.0	985207.0	0.228926	Y
6	STD8260 240-450378/10	60.0	13.453502	20.0	986335.0	0.224225	Y
7	STD8260 240-450378/9	80.0	17.308909	20.0	1016272.0	0.216361	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

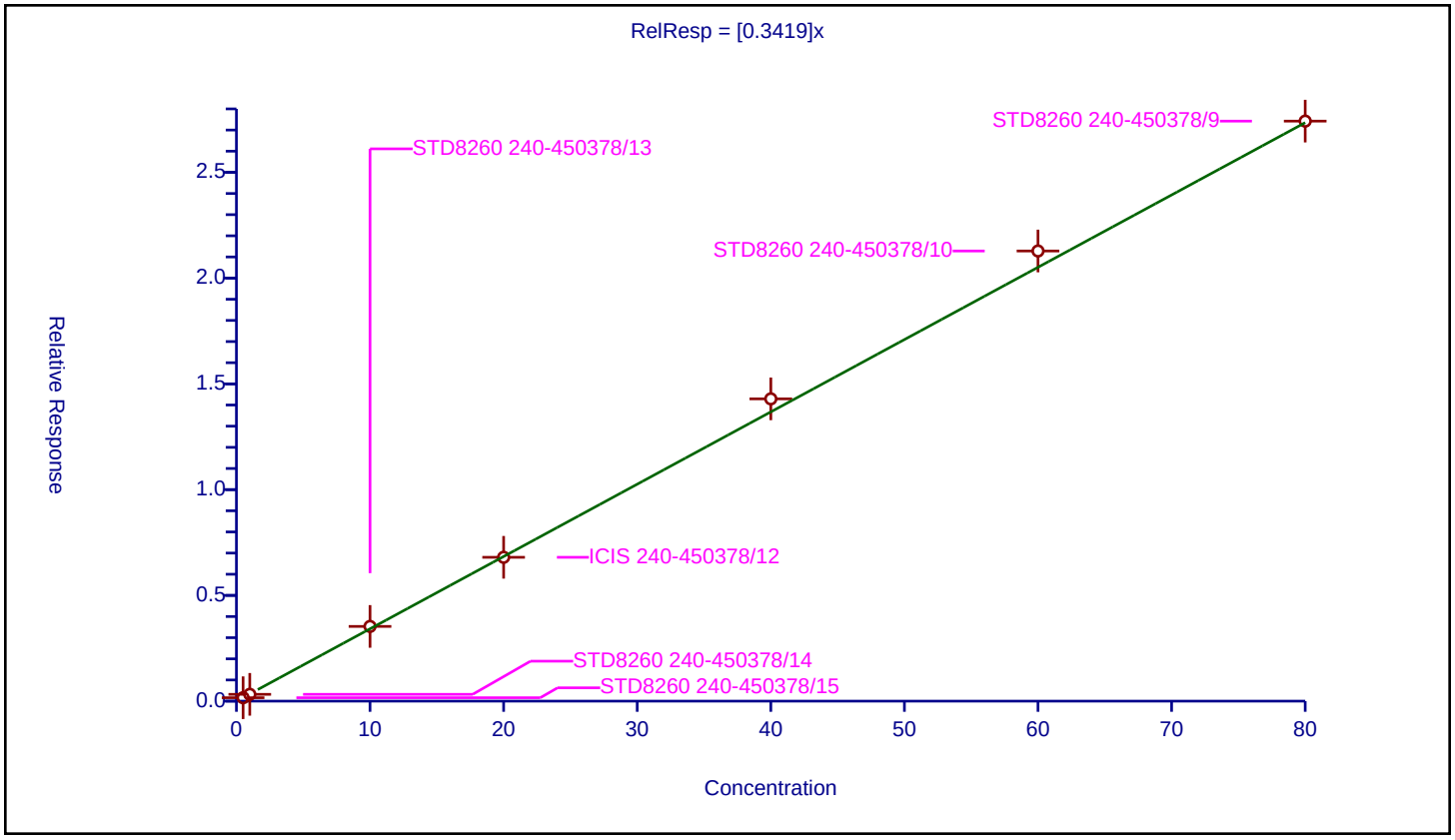
Curve Coefficients

Intercept:	0
Slope:	0.3419

Error Coefficients

Standard Error:	782000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.16184	20.0	841447.0	0.323681	Y
2	STD8260 240-450378/14	1.0	0.321317	20.0	857034.0	0.321317	Y
3	STD8260 240-450378/13	10.0	3.533044	20.0	949906.0	0.353304	Y
4	ICIS 240-450378/12	20.0	6.800697	20.0	955305.0	0.340035	Y
5	STD8260 240-450378/11	40.0	14.291535	20.0	985207.0	0.357288	Y
6	STD8260 240-450378/10	60.0	21.281836	20.0	986335.0	0.354697	Y
7	STD8260 240-450378/9	80.0	27.422619	20.0	1016272.0	0.342783	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

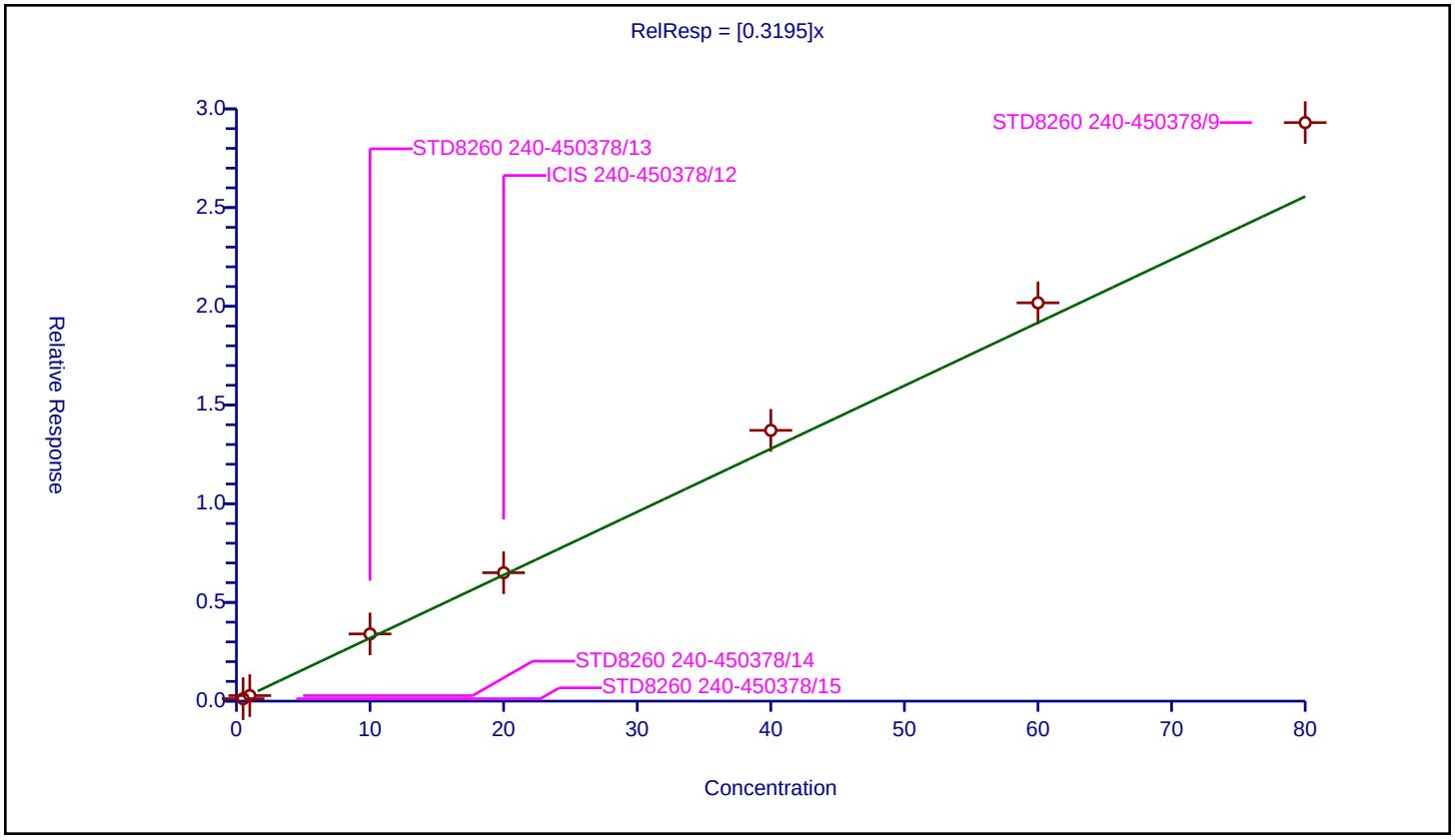
Curve Coefficients

Intercept:	0
Slope:	0.3195

Error Coefficients

Standard Error:	794000
Relative Standard Error:	13.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.122788	20.0	841447.0	0.245577	Y
2	STD8260 240-450378/14	1.0	0.280129	20.0	857034.0	0.280129	Y
3	STD8260 240-450378/13	10.0	3.404189	20.0	949906.0	0.340419	Y
4	ICIS 240-450378/12	20.0	6.50431	20.0	955305.0	0.325216	Y
5	STD8260 240-450378/11	40.0	13.715351	20.0	985207.0	0.342884	Y
6	STD8260 240-450378/10	60.0	20.176816	20.0	986335.0	0.33628	Y
7	STD8260 240-450378/9	80.0	29.304635	20.0	1016272.0	0.366308	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

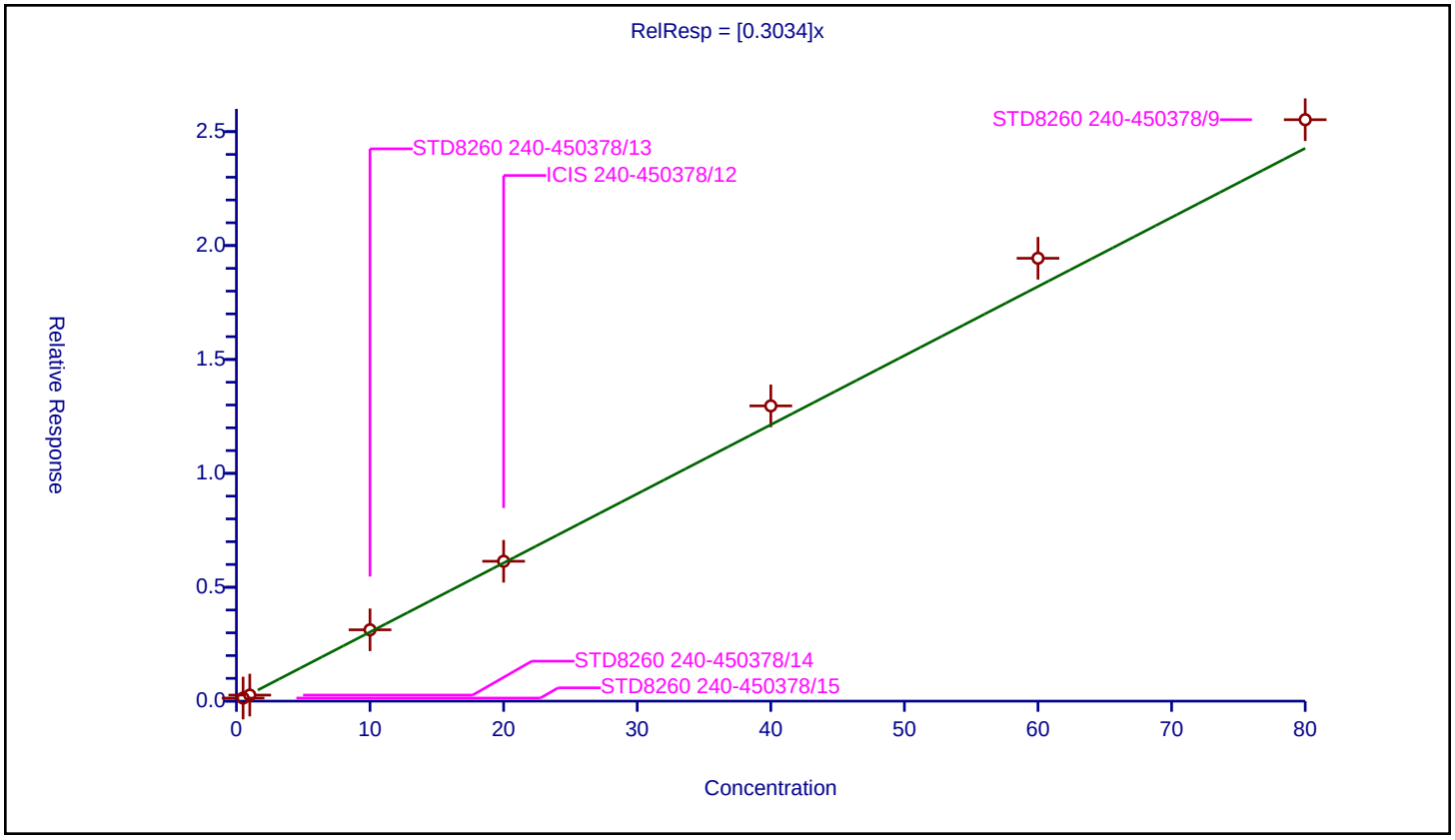
Curve Coefficients

Intercept:	0
Slope:	0.3034

Error Coefficients

Standard Error:	721000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.135029	20.0	841447.0	0.270059	Y
2	STD8260 240-450378/14	1.0	0.26622	20.0	857034.0	0.26622	Y
3	STD8260 240-450378/13	10.0	3.132099	20.0	949906.0	0.31321	Y
4	ICIS 240-450378/12	20.0	6.140008	20.0	955305.0	0.307	Y
5	STD8260 240-450378/11	40.0	12.961702	20.0	985207.0	0.324043	Y
6	STD8260 240-450378/10	60.0	19.443293	20.0	986335.0	0.324055	Y
7	STD8260 240-450378/9	80.0	25.525509	20.0	1016272.0	0.319069	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

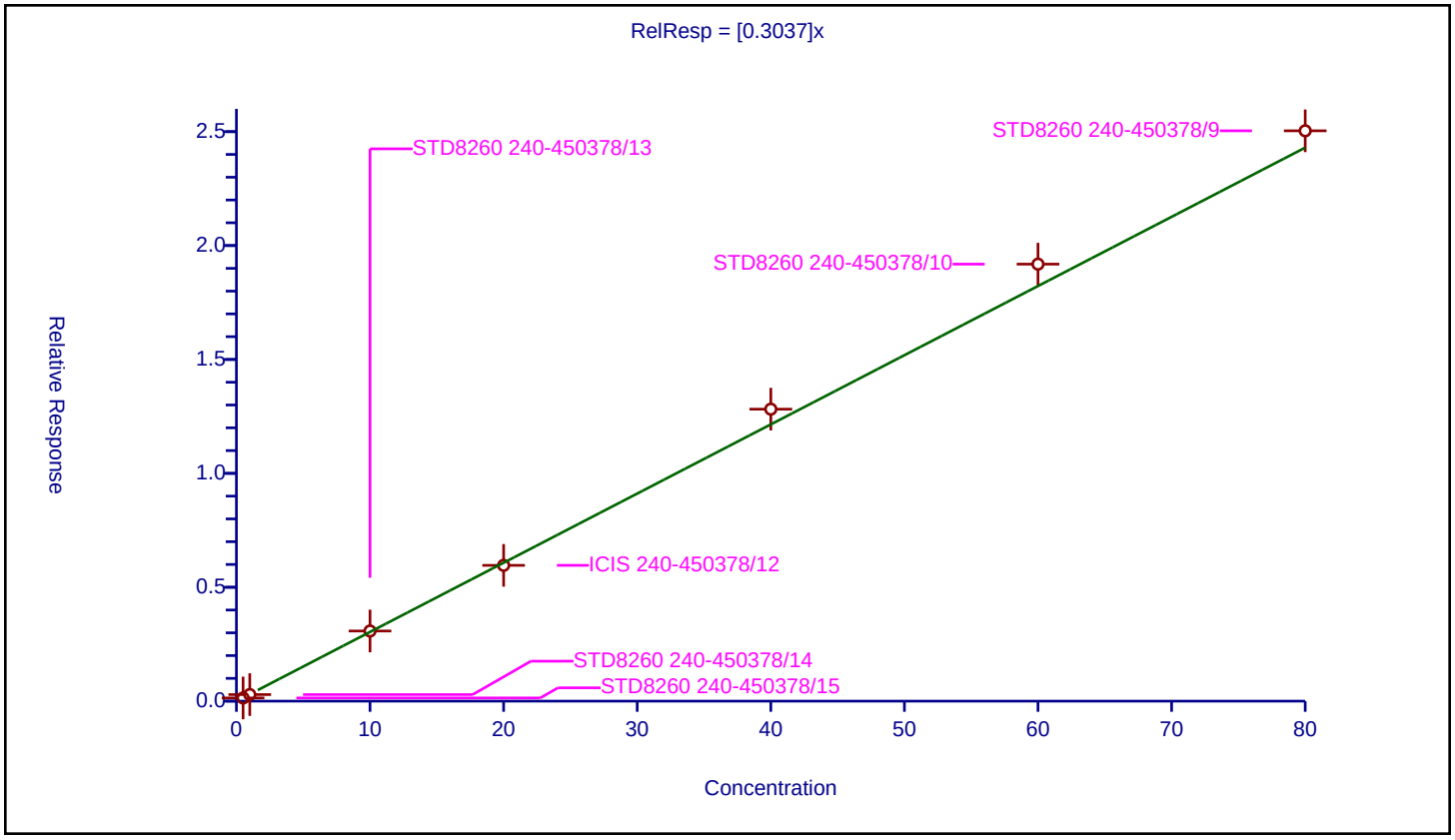
Curve Coefficients

Intercept:	0
Slope:	0.3037

Error Coefficients

Standard Error:	709000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.139593	20.0	841447.0	0.279186	Y
2	STD8260 240-450378/14	1.0	0.287737	20.0	857034.0	0.287737	Y
3	STD8260 240-450378/13	10.0	3.079778	20.0	949906.0	0.307978	Y
4	ICIS 240-450378/12	20.0	5.961531	20.0	955305.0	0.298077	Y
5	STD8260 240-450378/11	40.0	12.817509	20.0	985207.0	0.320438	Y
6	STD8260 240-450378/10	60.0	19.184233	20.0	986335.0	0.319737	Y
7	STD8260 240-450378/9	80.0	25.037844	20.0	1016272.0	0.312973	Y



Calibration / Isobutyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

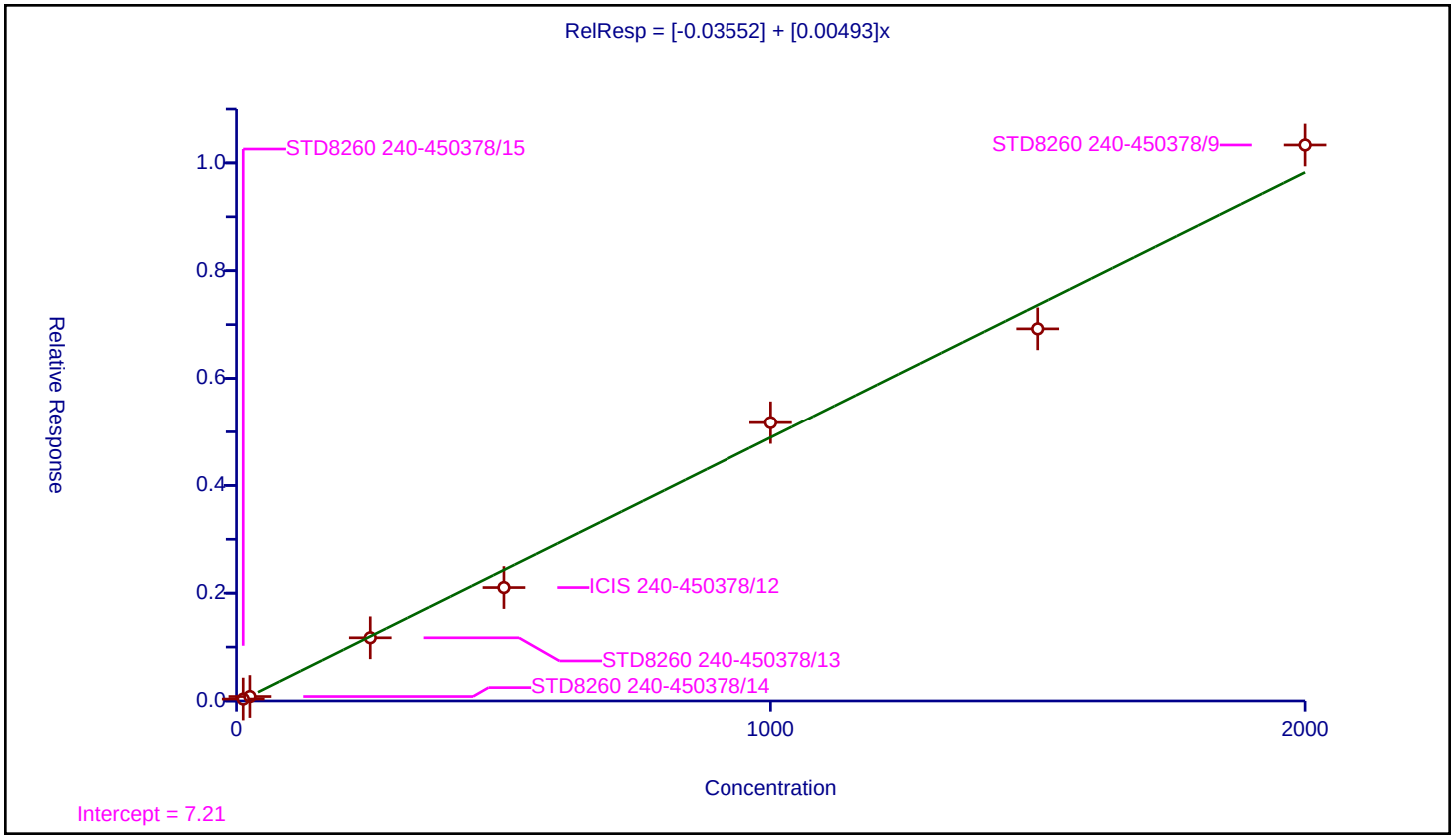
Curve Coefficients

Intercept:	-0.03552
Slope:	0.00493

Error Coefficients

Standard Error:	307000
Relative Standard Error:	10.1
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	12.5	0.035177	20.0	841447.0	0.002814	Y
2	STD8260 240-450378/14	25.0	0.082377	20.0	857034.0	0.003295	Y
3	STD8260 240-450378/13	250.0	1.172242	20.0	949906.0	0.004689	Y
4	ICIS 240-450378/12	500.0	2.104312	20.0	955305.0	0.004209	Y
5	STD8260 240-450378/11	1000.0	5.172679	20.0	985207.0	0.005173	Y
6	STD8260 240-450378/10	1500.0	6.921218	20.0	986335.0	0.004614	Y
7	STD8260 240-450378/9	2000.0	10.333257	20.0	1016272.0	0.005167	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

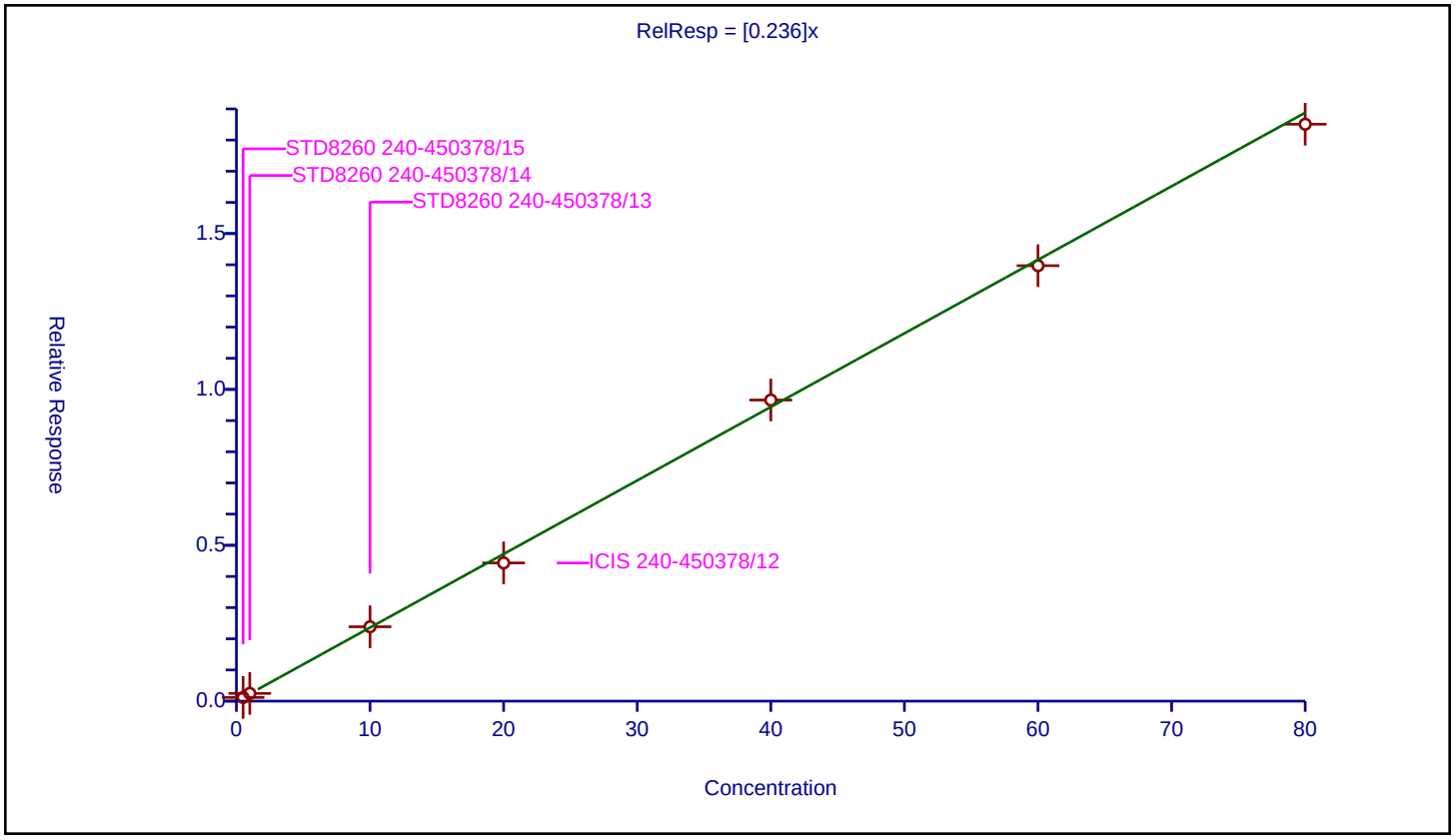
Curve Coefficients

Intercept:	0
Slope:	0.236

Error Coefficients

Standard Error:	523000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.118748	20.0	841447.0	0.237496	Y
2	STD8260 240-450378/14	1.0	0.248415	20.0	857034.0	0.248415	Y
3	STD8260 240-450378/13	10.0	2.385689	20.0	949906.0	0.238569	Y
4	ICIS 240-450378/12	20.0	4.433139	20.0	955305.0	0.221657	Y
5	STD8260 240-450378/11	40.0	9.659574	20.0	985207.0	0.241489	Y
6	STD8260 240-450378/10	60.0	13.969899	20.0	986335.0	0.232832	Y
7	STD8260 240-450378/9	80.0	18.508962	20.0	1016272.0	0.231362	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

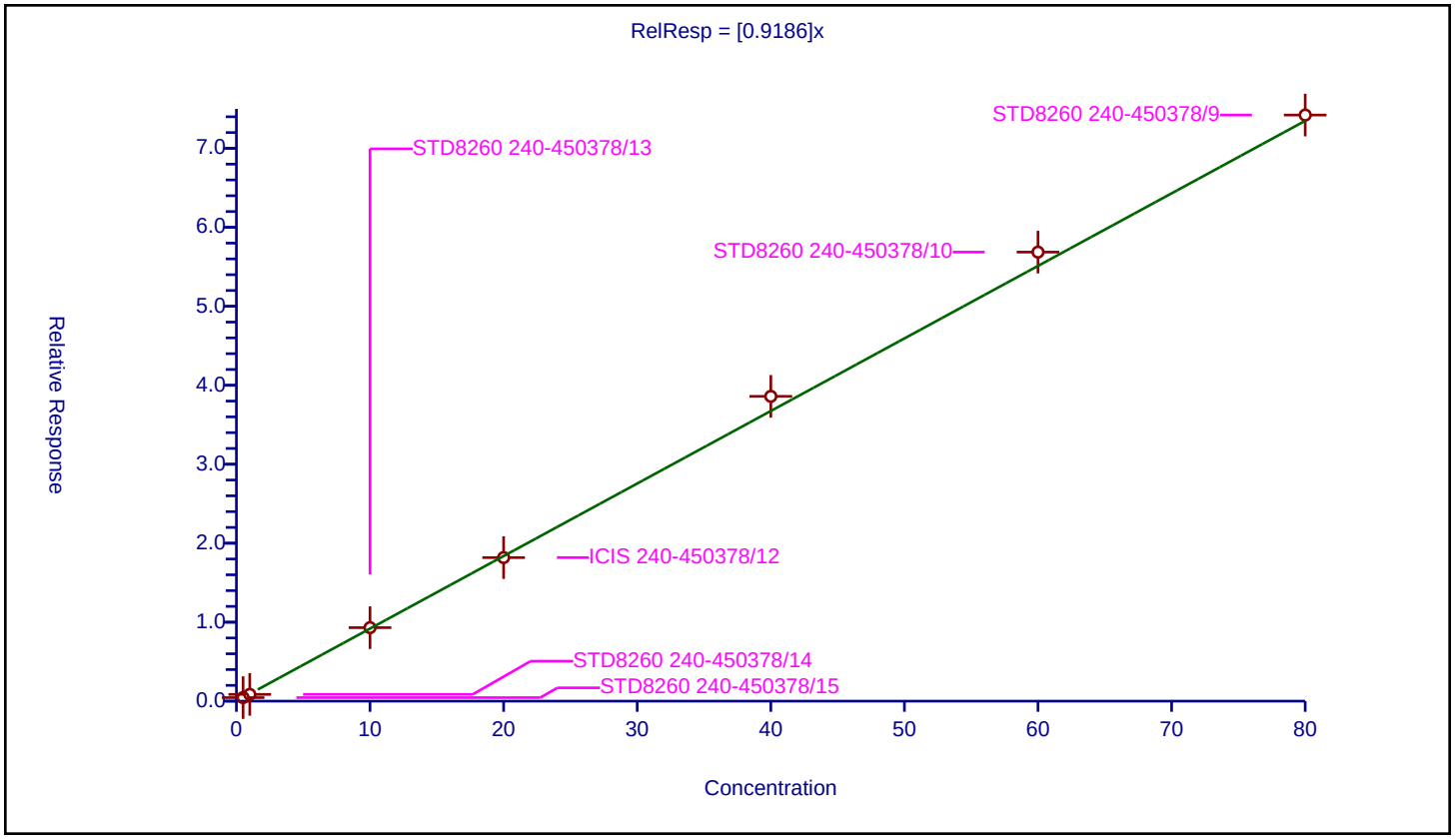
Curve Coefficients

Intercept:	0
Slope:	0.9186

Error Coefficients

Standard Error:	2110000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.447919	20.0	841447.0	0.895838	Y
2	STD8260 240-450378/14	1.0	0.854412	20.0	857034.0	0.854412	Y
3	STD8260 240-450378/13	10.0	9.308289	20.0	949906.0	0.930829	Y
4	ICIS 240-450378/12	20.0	18.177566	20.0	955305.0	0.908878	Y
5	STD8260 240-450378/11	40.0	38.596681	20.0	985207.0	0.964917	Y
6	STD8260 240-450378/10	60.0	56.862871	20.0	986335.0	0.947715	Y
7	STD8260 240-450378/9	80.0	74.22198	20.0	1016272.0	0.927775	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

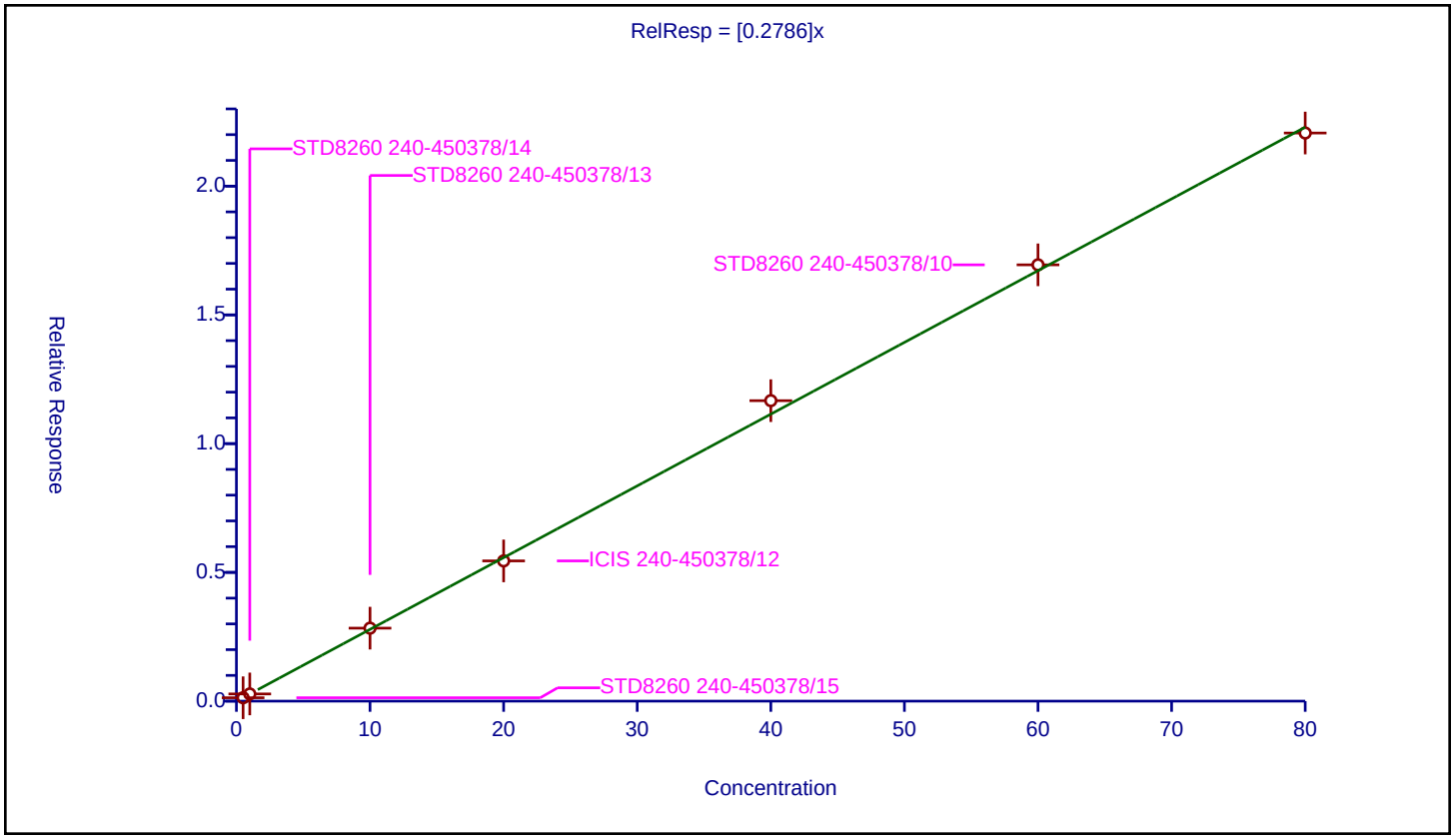
Curve Coefficients

Intercept:	0
Slope:	0.2786

Error Coefficients

Standard Error:	629000
Relative Standard Error:	3.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.132272	20.0	841447.0	0.264544	Y
2	STD8260 240-450378/14	1.0	0.280246	20.0	857034.0	0.280246	Y
3	STD8260 240-450378/13	10.0	2.834533	20.0	949906.0	0.283453	Y
4	ICIS 240-450378/12	20.0	5.446009	20.0	955305.0	0.2723	Y
5	STD8260 240-450378/11	40.0	11.668959	20.0	985207.0	0.291724	Y
6	STD8260 240-450378/10	60.0	16.943473	20.0	986335.0	0.282391	Y
7	STD8260 240-450378/9	80.0	22.062381	20.0	1016272.0	0.27578	Y



Calibration / n-Heptane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

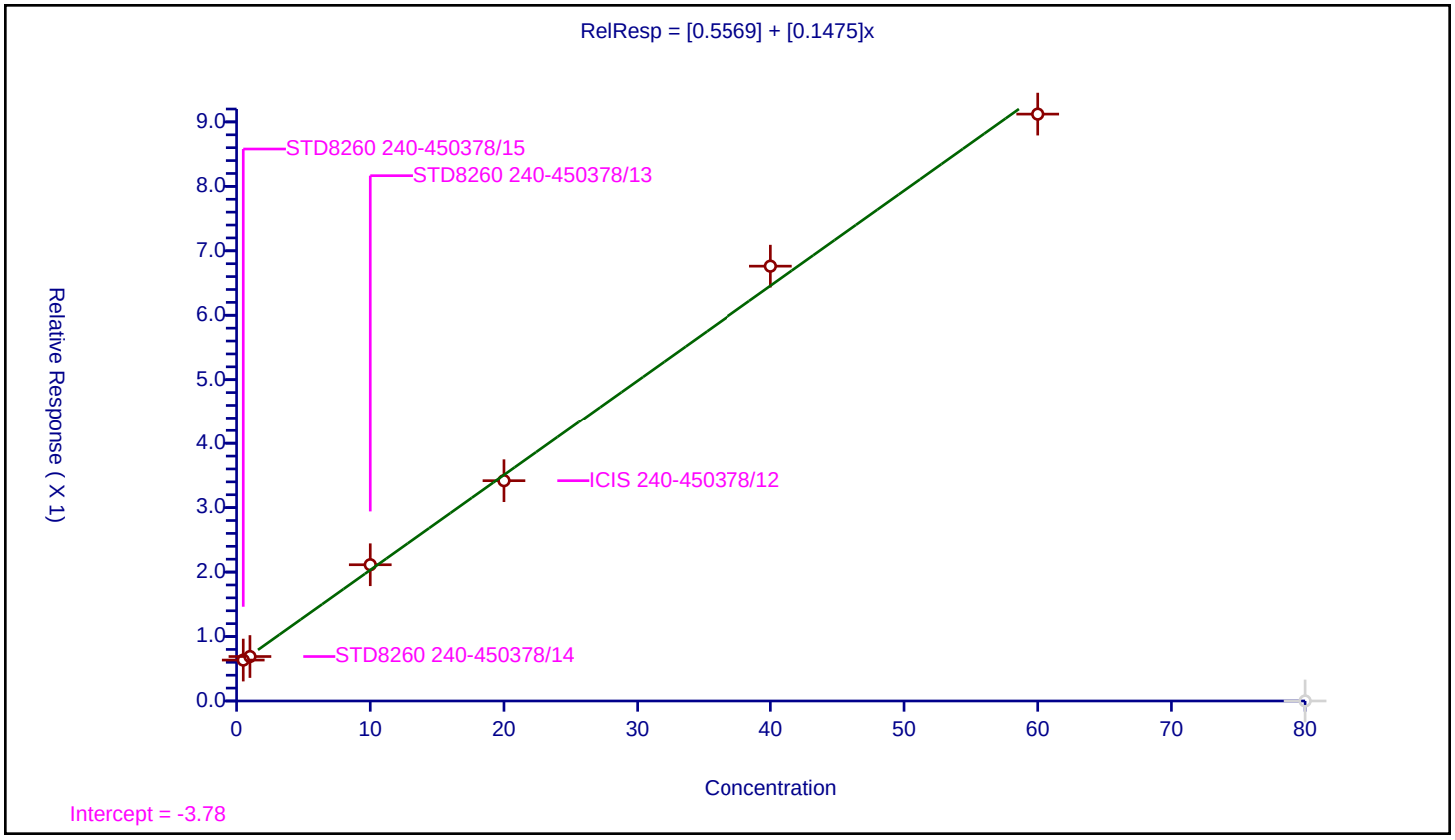
Curve Coefficients

Intercept:	0.5569
Slope:	0.1475

Error Coefficients

Standard Error:	296000
Relative Standard Error:	7.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.634787	20.0	841447.0	1.269575	Y
2	STD8260 240-450378/14	1.0	0.689704	20.0	857034.0	0.689704	Y
3	STD8260 240-450378/13	10.0	2.113851	20.0	949906.0	0.211385	Y
4	ICIS 240-450378/12	20.0	3.418133	20.0	955305.0	0.170907	Y
5	STD8260 240-450378/11	40.0	6.76201	20.0	985207.0	0.16905	Y
6	STD8260 240-450378/10	60.0	9.1211	20.0	986335.0	0.152018	Y
7	STD8260 240-450378/9	80.0	0.0	20.0	1016272.0	0.0	N



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

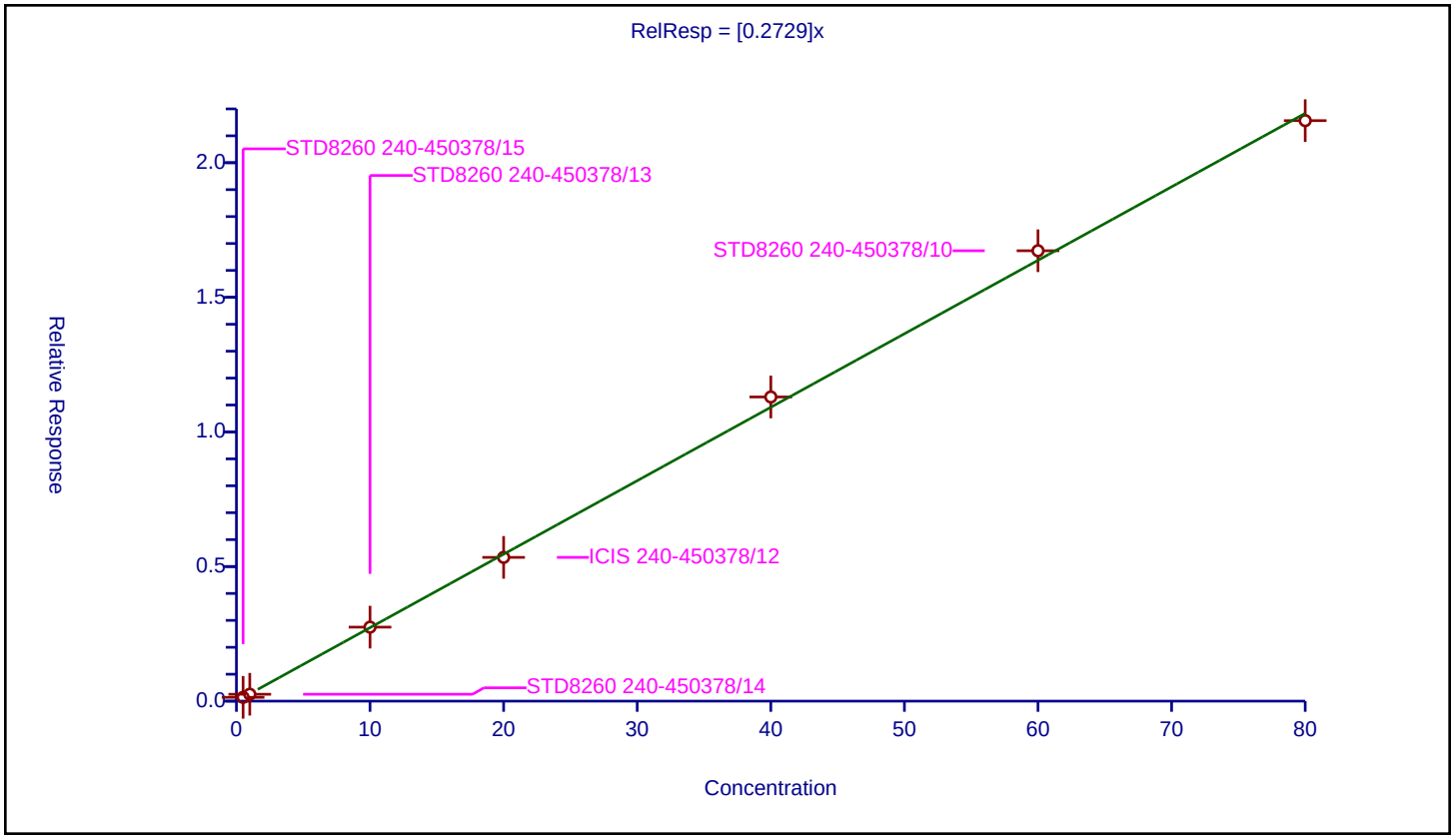
Curve Coefficients

Intercept:	0
Slope:	0.2729

Error Coefficients

Standard Error:	616000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.140924	20.0	841447.0	0.281848	Y
2	STD8260 240-450378/14	1.0	0.255859	20.0	857034.0	0.255859	Y
3	STD8260 240-450378/13	10.0	2.749198	20.0	949906.0	0.27492	Y
4	ICIS 240-450378/12	20.0	5.340577	20.0	955305.0	0.267029	Y
5	STD8260 240-450378/11	40.0	11.299006	20.0	985207.0	0.282475	Y
6	STD8260 240-450378/10	60.0	16.730847	20.0	986335.0	0.278847	Y
7	STD8260 240-450378/9	80.0	21.563971	20.0	1016272.0	0.26955	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

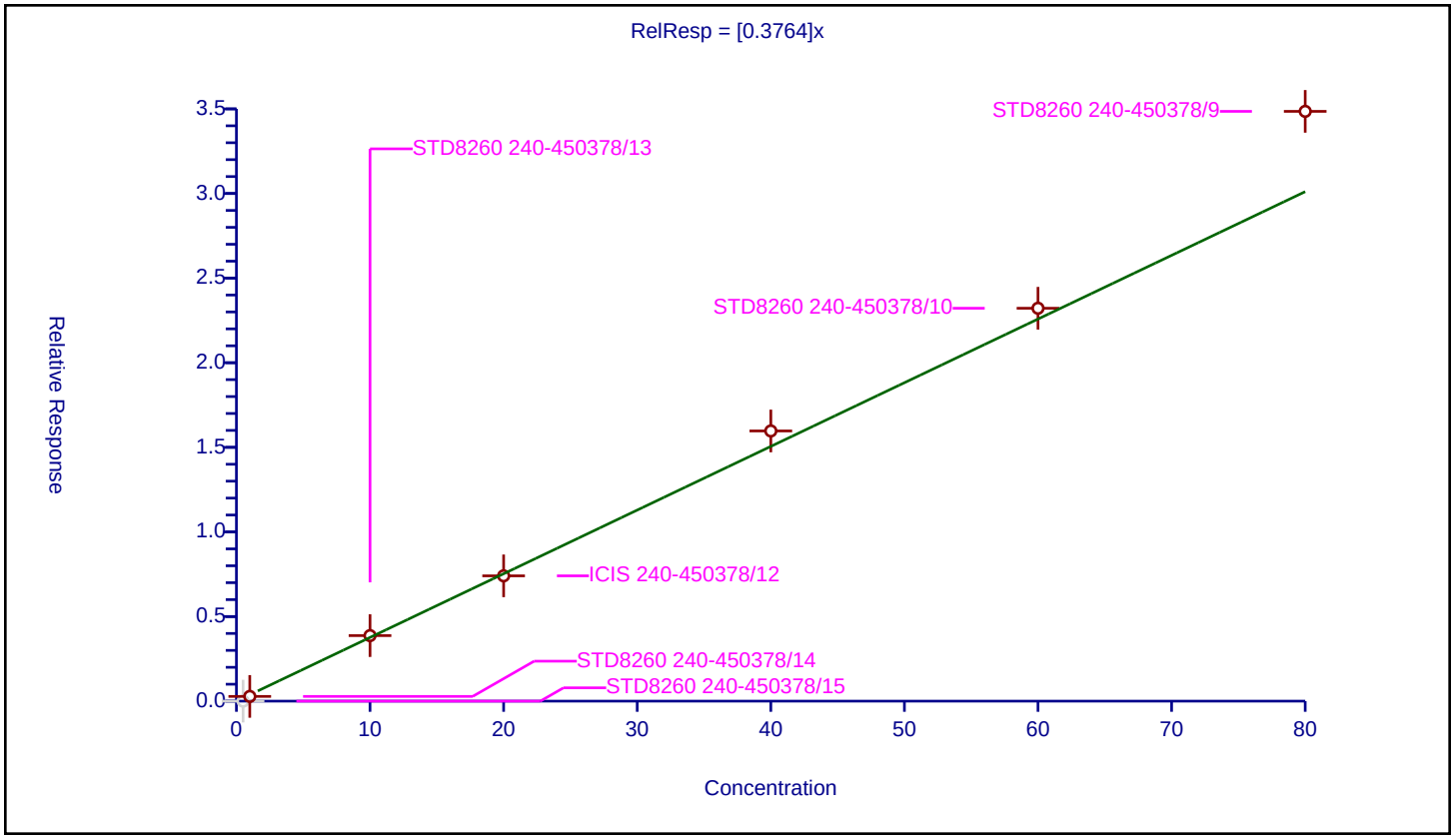
Curve Coefficients

Intercept:	0
Slope:	0.3764

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	14.0
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	1.0	0.278822	20.0	857034.0	0.278822	Y
3	STD8260 240-450378/13	10.0	3.872131	20.0	949906.0	0.387213	Y
4	ICIS 240-450378/12	20.0	7.404965	20.0	955305.0	0.370248	Y
5	STD8260 240-450378/11	40.0	15.967507	20.0	985207.0	0.399188	Y
6	STD8260 240-450378/10	60.0	23.219089	20.0	986335.0	0.386985	Y
7	STD8260 240-450378/9	80.0	34.853504	20.0	1016272.0	0.435669	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

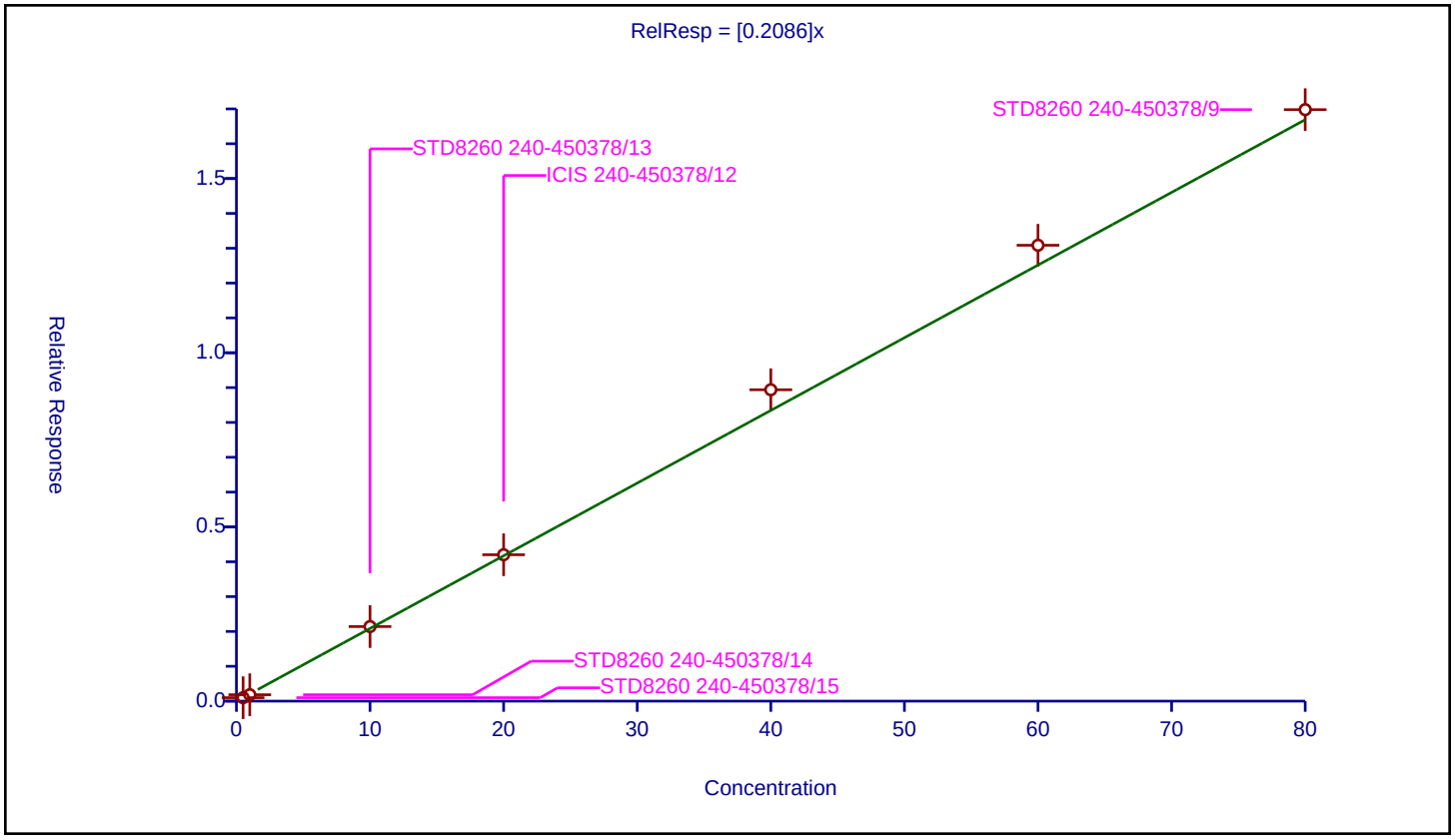
Curve Coefficients

Intercept:	0
Slope:	0.2086

Error Coefficients

Standard Error:	484000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.099186	20.0	841447.0	0.198373	Y
2	STD8260 240-450378/14	1.0	0.184053	20.0	857034.0	0.184053	Y
3	STD8260 240-450378/13	10.0	2.139875	20.0	949906.0	0.213987	Y
4	ICIS 240-450378/12	20.0	4.202344	20.0	955305.0	0.210117	Y
5	STD8260 240-450378/11	40.0	8.938183	20.0	985207.0	0.223455	Y
6	STD8260 240-450378/10	60.0	13.085392	20.0	986335.0	0.21809	Y
7	STD8260 240-450378/9	80.0	16.978644	20.0	1016272.0	0.212233	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

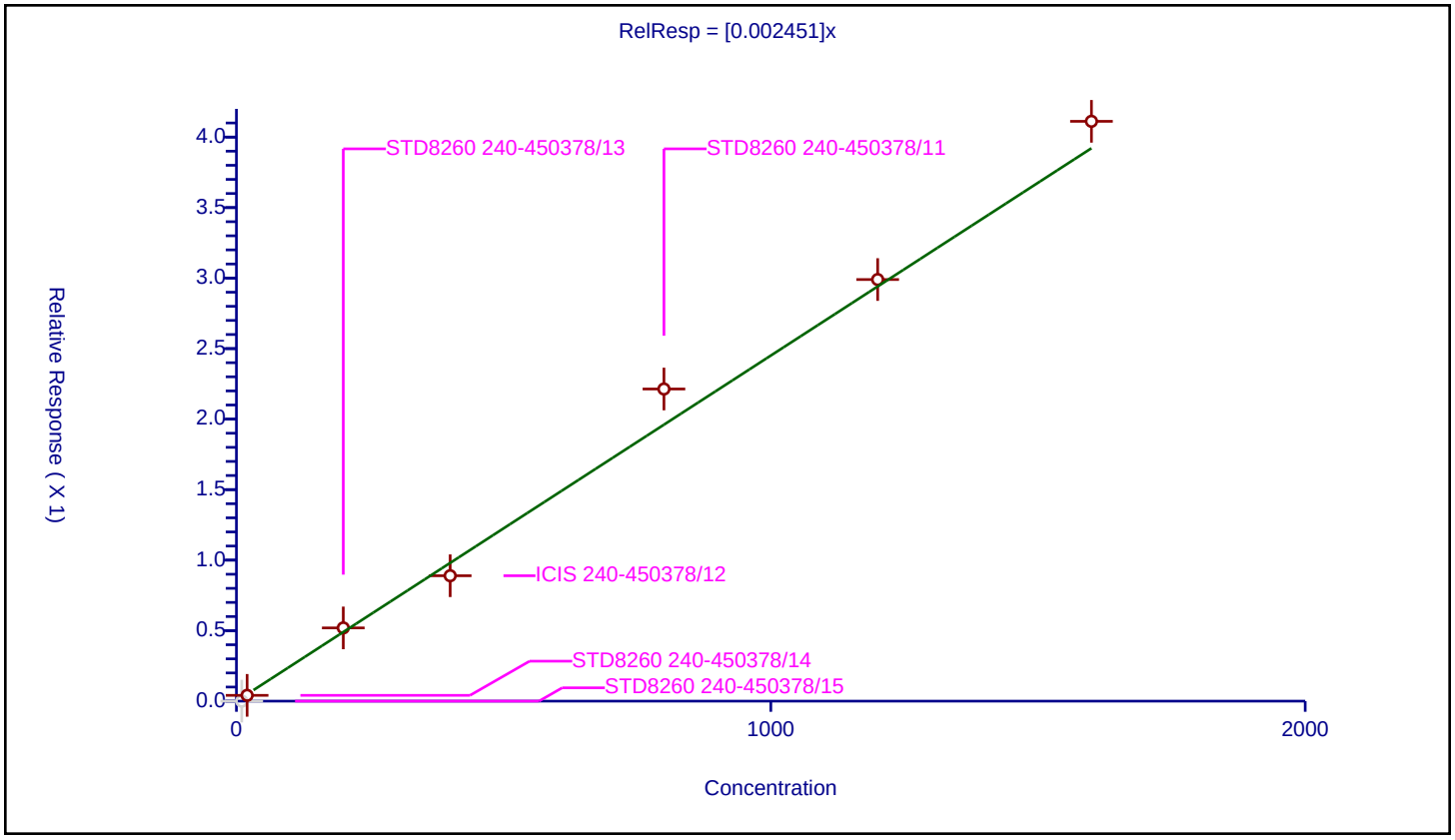
Curve Coefficients

Intercept:	0
Slope:	0.002451

Error Coefficients

Standard Error:	126000
Relative Standard Error:	10.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	10.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	20.0	0.041119	20.0	857034.0	0.002056	Y
3	STD8260 240-450378/13	200.0	0.519336	20.0	949906.0	0.002597	Y
4	ICIS 240-450378/12	400.0	0.889308	20.0	955305.0	0.002223	Y
5	STD8260 240-450378/11	800.0	2.213484	20.0	985207.0	0.002767	Y
6	STD8260 240-450378/10	1200.0	2.989836	20.0	986335.0	0.002492	Y
7	STD8260 240-450378/9	1600.0	4.111872	20.0	1016272.0	0.00257	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

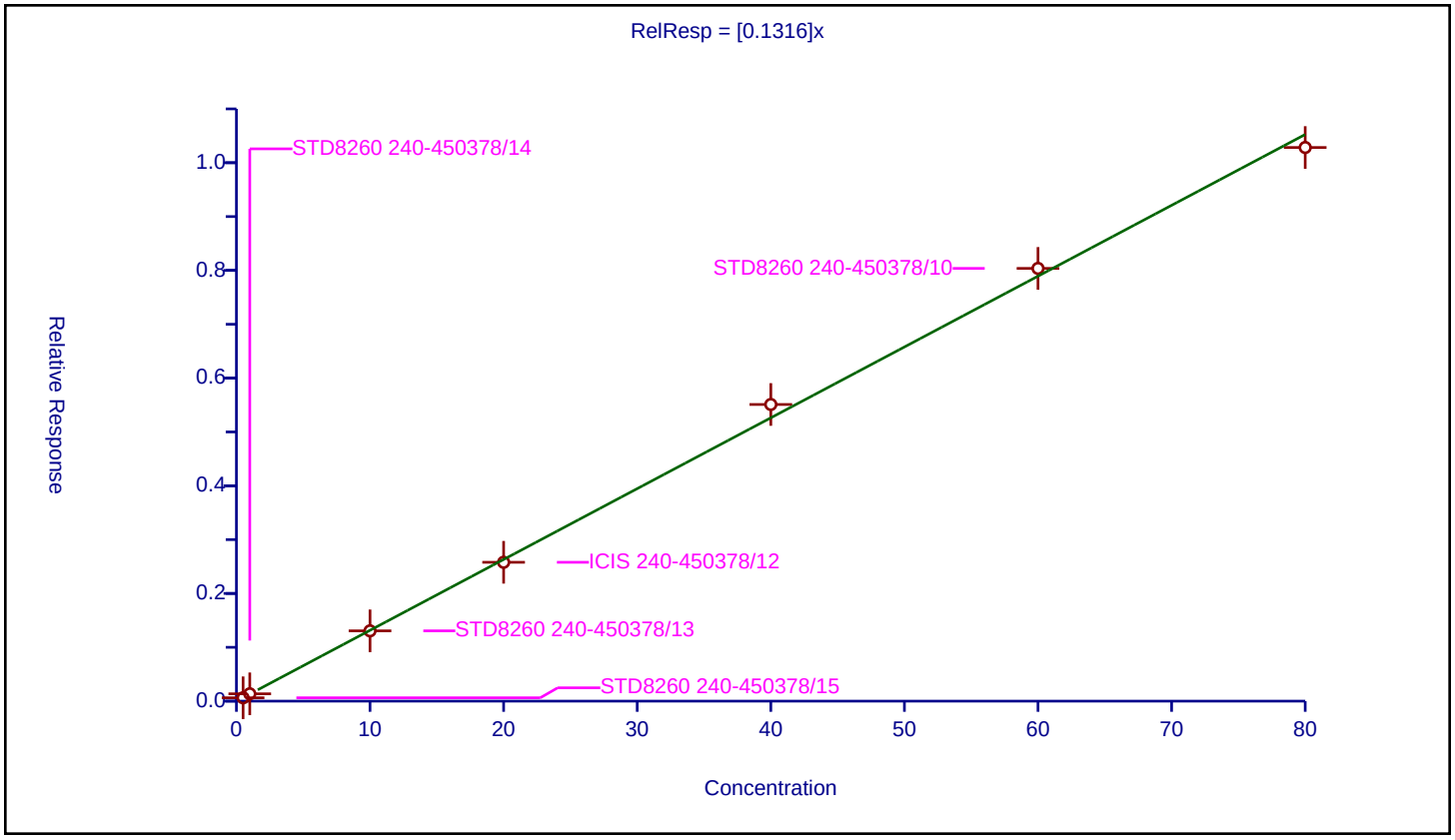
Curve Coefficients

Intercept:	0
Slope:	0.1316

Error Coefficients

Standard Error:	295000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.062511	20.0	841447.0	0.125023	Y
2	STD8260 240-450378/14	1.0	0.136144	20.0	857034.0	0.136144	Y
3	STD8260 240-450378/13	10.0	1.305519	20.0	949906.0	0.130552	Y
4	ICIS 240-450378/12	20.0	2.578799	20.0	955305.0	0.12894	Y
5	STD8260 240-450378/11	40.0	5.510253	20.0	985207.0	0.137756	Y
6	STD8260 240-450378/10	60.0	8.037533	20.0	986335.0	0.133959	Y
7	STD8260 240-450378/9	80.0	10.282523	20.0	1016272.0	0.128532	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

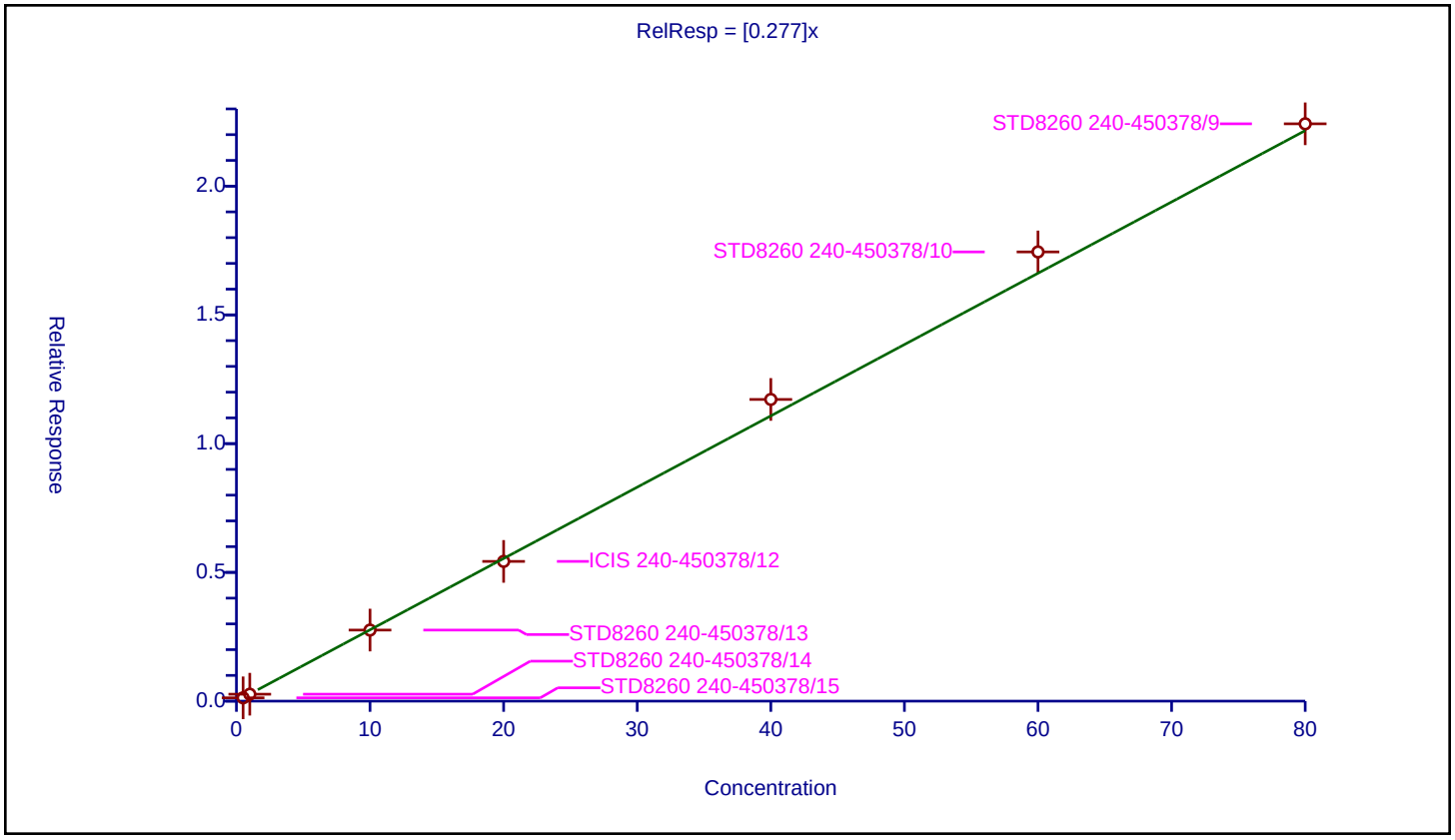
Curve Coefficients

Intercept:	0
Slope:	0.277

Error Coefficients

Standard Error:	640000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.129016	20.0	841447.0	0.258032	Y
2	STD8260 240-450378/14	1.0	0.269418	20.0	857034.0	0.269418	Y
3	STD8260 240-450378/13	10.0	2.760042	20.0	949906.0	0.276004	Y
4	ICIS 240-450378/12	20.0	5.426811	20.0	955305.0	0.271341	Y
5	STD8260 240-450378/11	40.0	11.716259	20.0	985207.0	0.292906	Y
6	STD8260 240-450378/10	60.0	17.445533	20.0	986335.0	0.290759	Y
7	STD8260 240-450378/9	80.0	22.420828	20.0	1016272.0	0.28026	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

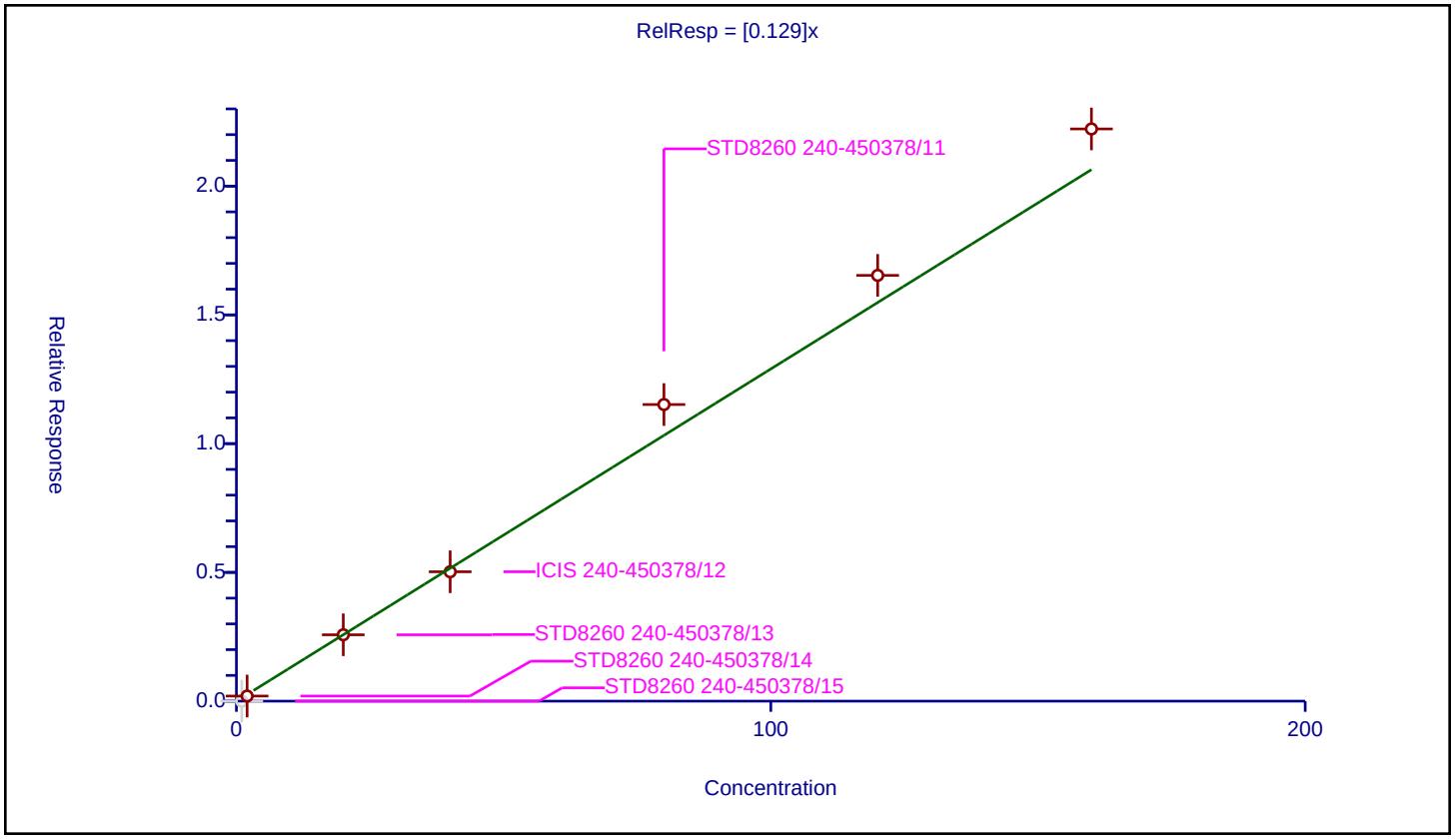
Curve Coefficients

Intercept:	0
Slope:	0.129

Error Coefficients

Standard Error:	683000
Relative Standard Error:	12.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	2.0	0.197798	20.0	857034.0	0.098899	Y
3	STD8260 240-450378/13	20.0	2.577308	20.0	949906.0	0.128865	Y
4	ICIS 240-450378/12	40.0	5.024134	20.0	955305.0	0.125603	Y
5	STD8260 240-450378/11	80.0	11.519285	20.0	985207.0	0.143991	Y
6	STD8260 240-450378/10	120.0	16.534038	20.0	986335.0	0.137784	Y
7	STD8260 240-450378/9	160.0	22.220961	20.0	1016272.0	0.138881	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

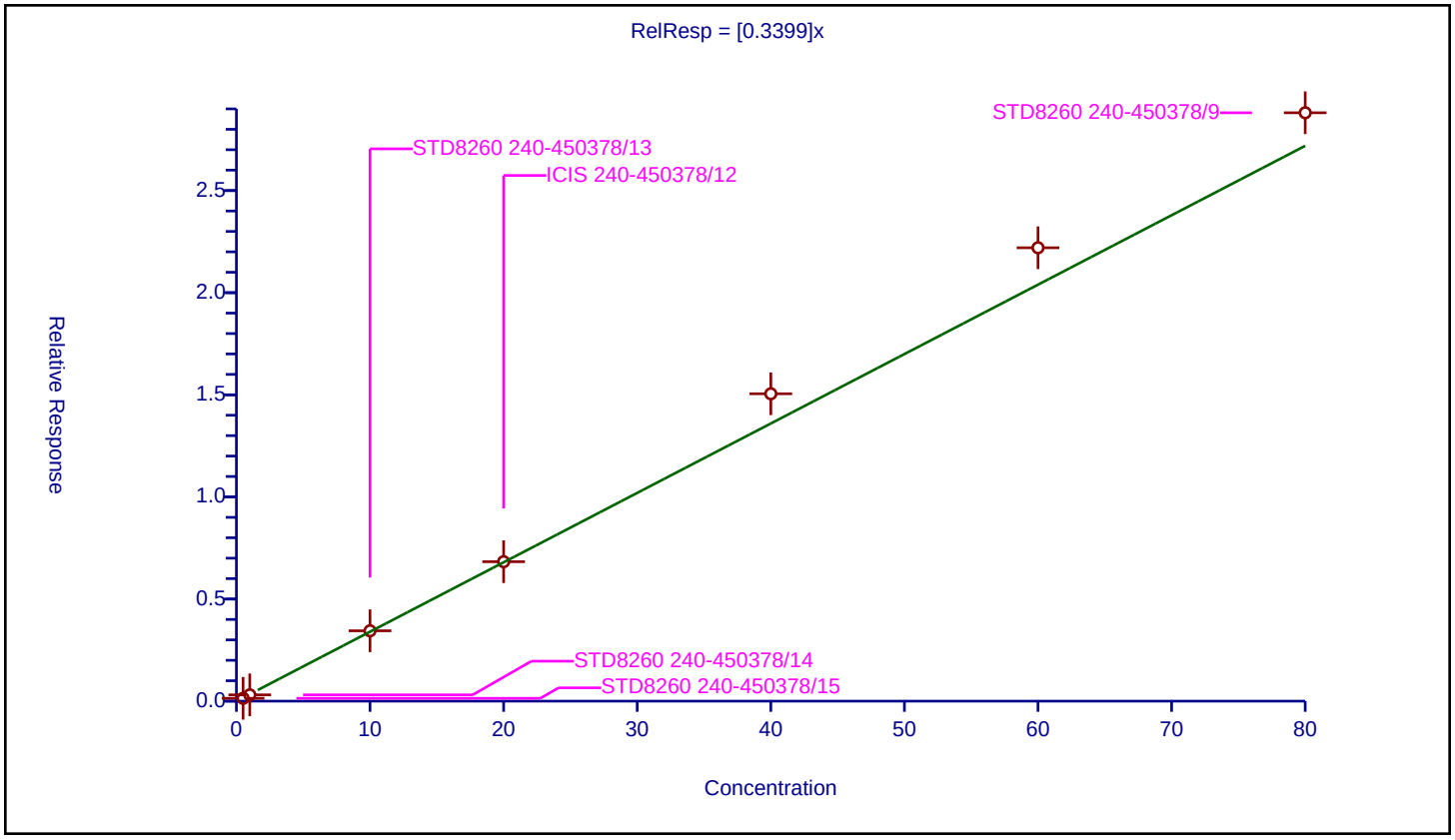
Curve Coefficients

Intercept:	0
Slope:	0.3399

Error Coefficients

Standard Error:	819000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.139189	20.0	841447.0	0.278378	Y
2	STD8260 240-450378/14	1.0	0.308669	20.0	857034.0	0.308669	Y
3	STD8260 240-450378/13	10.0	3.444488	20.0	949906.0	0.344449	Y
4	ICIS 240-450378/12	20.0	6.8276	20.0	955305.0	0.34138	Y
5	STD8260 240-450378/11	40.0	15.050908	20.0	985207.0	0.376273	Y
6	STD8260 240-450378/10	60.0	22.199577	20.0	986335.0	0.369993	Y
7	STD8260 240-450378/9	80.0	28.809964	20.0	1016272.0	0.360125	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

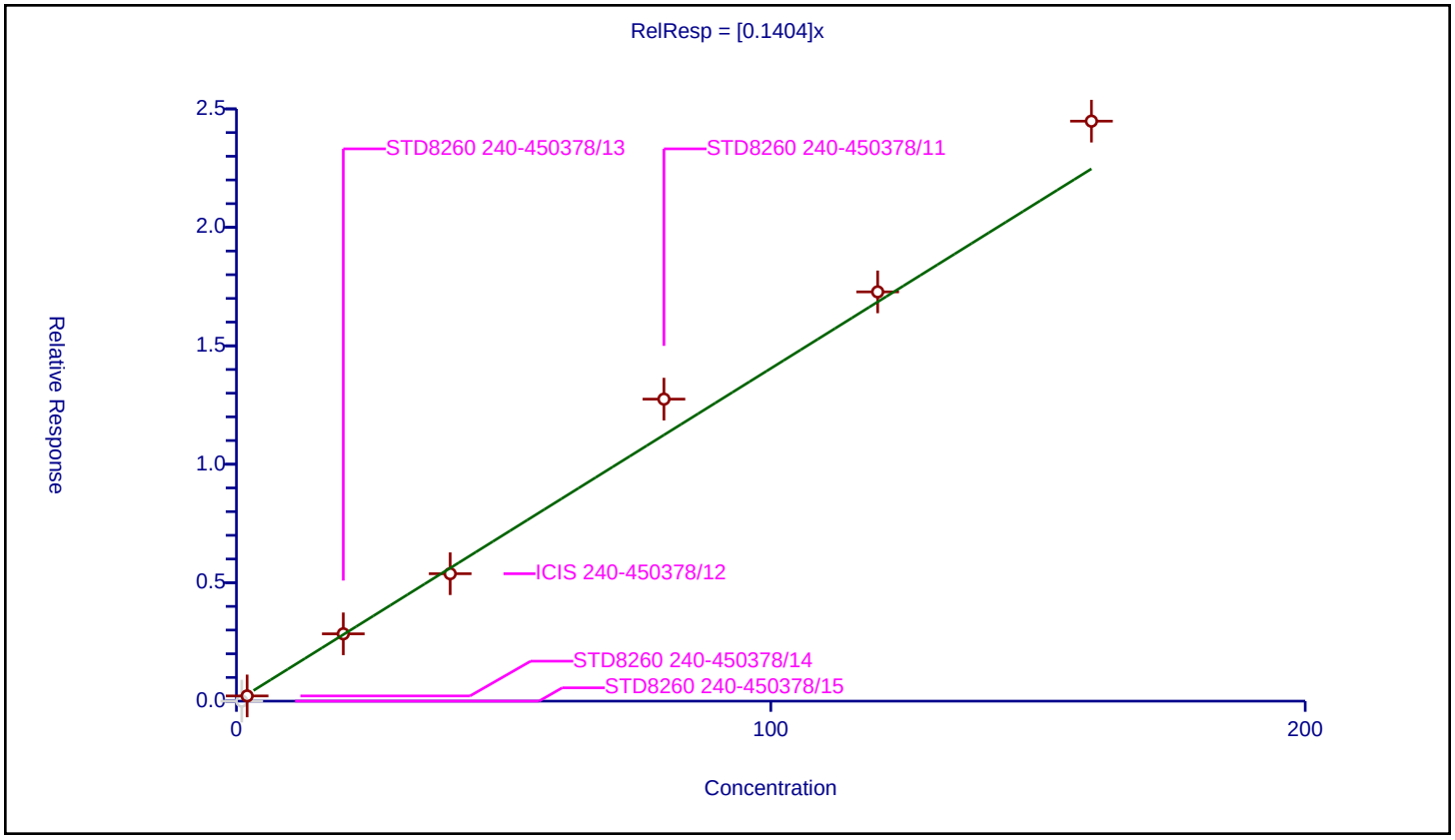
Curve Coefficients

Intercept:	0
Slope:	0.1404

Error Coefficients

Standard Error:	742000
Relative Standard Error:	12.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	2.0	0.219501	20.0	857034.0	0.109751	Y
3	STD8260 240-450378/13	20.0	2.841502	20.0	949906.0	0.142075	Y
4	ICIS 240-450378/12	40.0	5.378931	20.0	955305.0	0.134473	Y
5	STD8260 240-450378/11	80.0	12.748651	20.0	985207.0	0.159358	Y
6	STD8260 240-450378/10	120.0	17.275875	20.0	986335.0	0.143966	Y
7	STD8260 240-450378/9	160.0	24.482698	20.0	1016272.0	0.153017	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

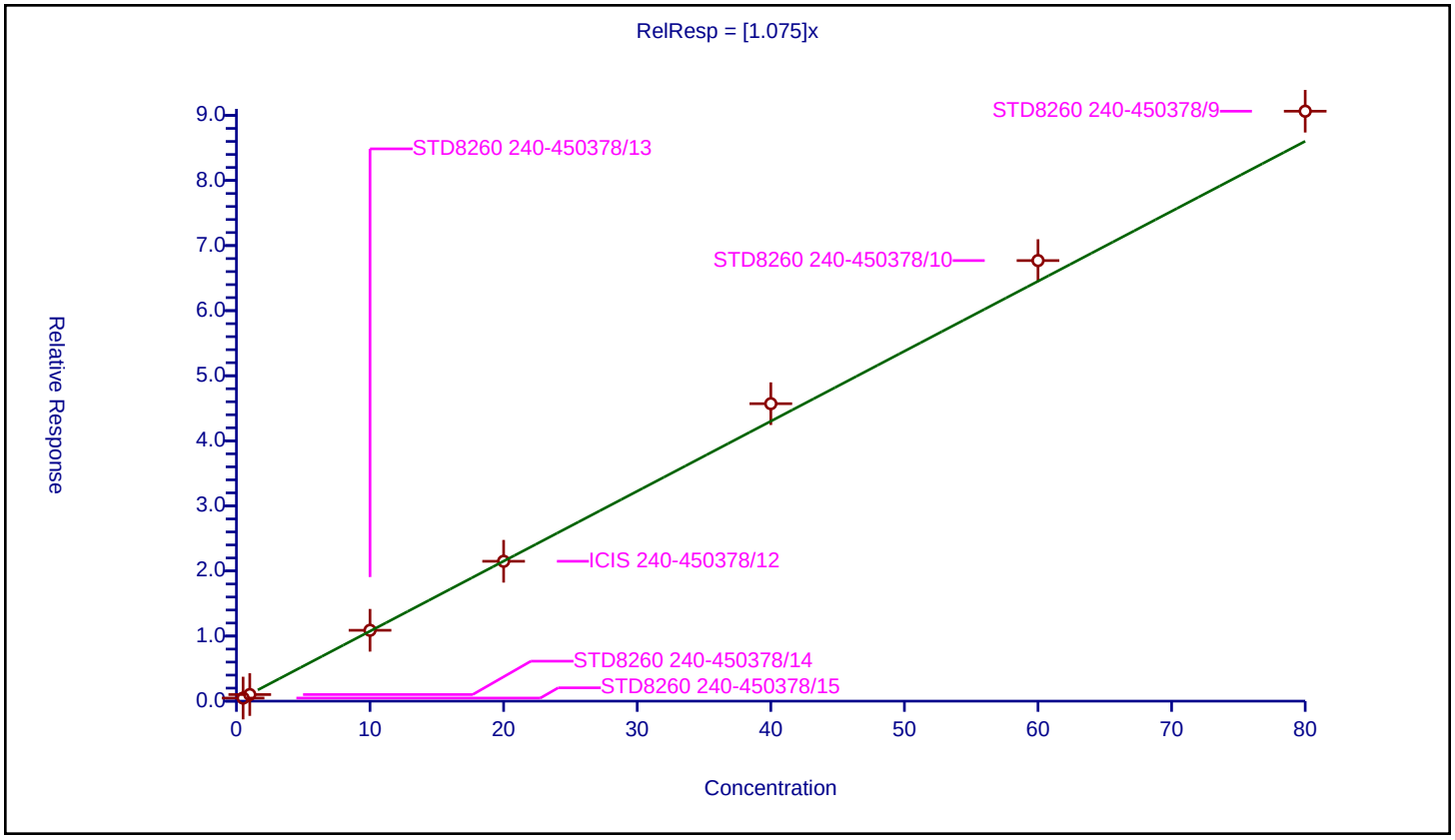
Curve Coefficients

Intercept:	0
Slope:	1.075

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.473113	20.0	695225.0	0.946226	Y
2	STD8260 240-450378/14	1.0	1.013947	20.0	706605.0	1.013947	Y
3	STD8260 240-450378/13	10.0	10.887467	20.0	754124.0	1.088747	Y
4	ICIS 240-450378/12	20.0	21.49142	20.0	743399.0	1.074571	Y
5	STD8260 240-450378/11	40.0	45.704123	20.0	768658.0	1.142603	Y
6	STD8260 240-450378/10	60.0	67.693124	20.0	763435.0	1.128219	Y
7	STD8260 240-450378/9	80.0	90.643941	20.0	778146.0	1.133049	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

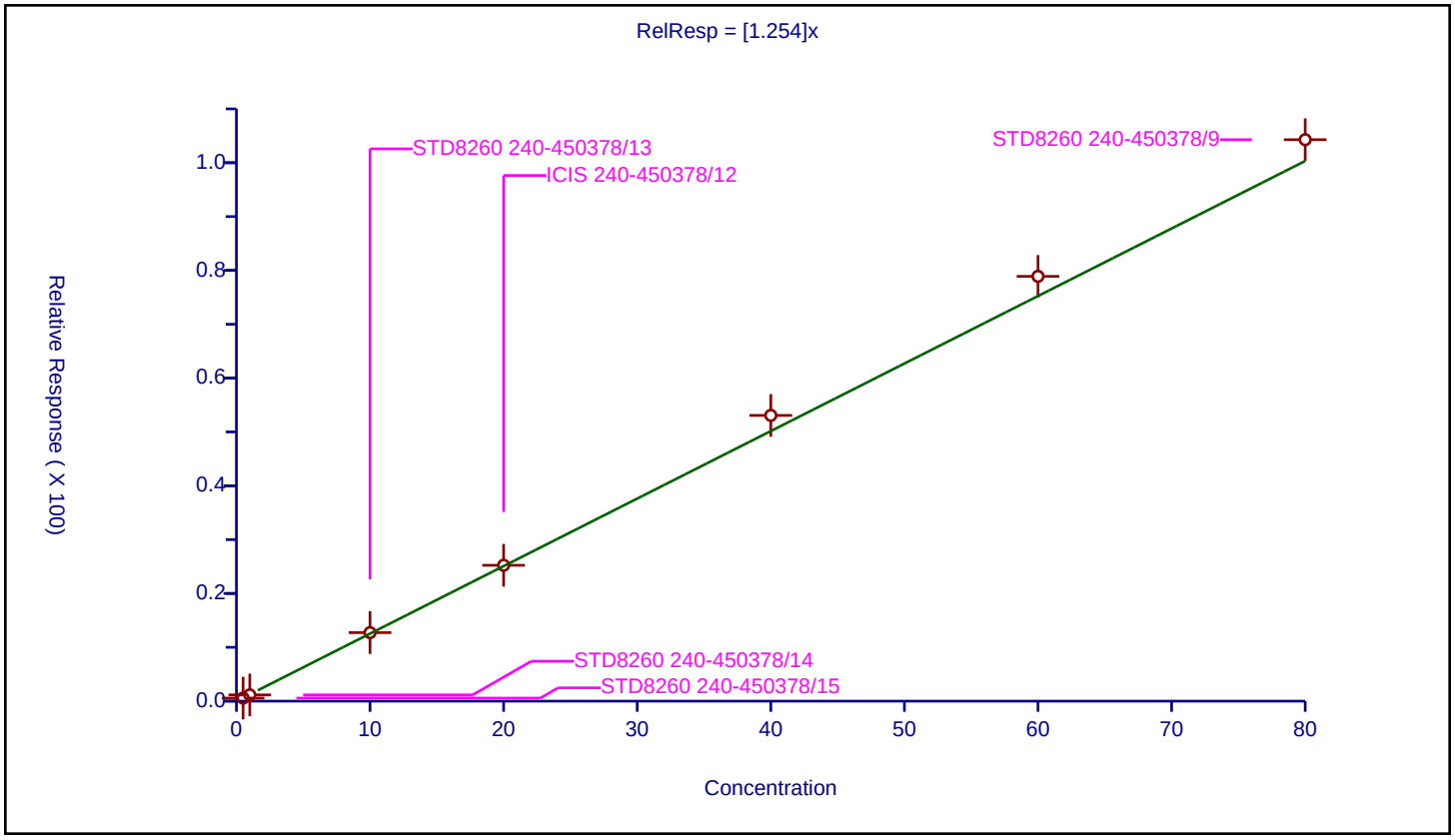
Curve Coefficients

Intercept:	0
Slope:	1.254

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.567557	20.0	695225.0	1.135115	Y
2	STD8260 240-450378/14	1.0	1.163564	20.0	706605.0	1.163564	Y
3	STD8260 240-450378/13	10.0	12.725944	20.0	754124.0	1.272594	Y
4	ICIS 240-450378/12	20.0	25.237026	20.0	743399.0	1.261851	Y
5	STD8260 240-450378/11	40.0	53.072836	20.0	768658.0	1.326821	Y
6	STD8260 240-450378/10	60.0	78.900496	20.0	763435.0	1.315008	Y
7	STD8260 240-450378/9	80.0	104.282615	20.0	778146.0	1.303533	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

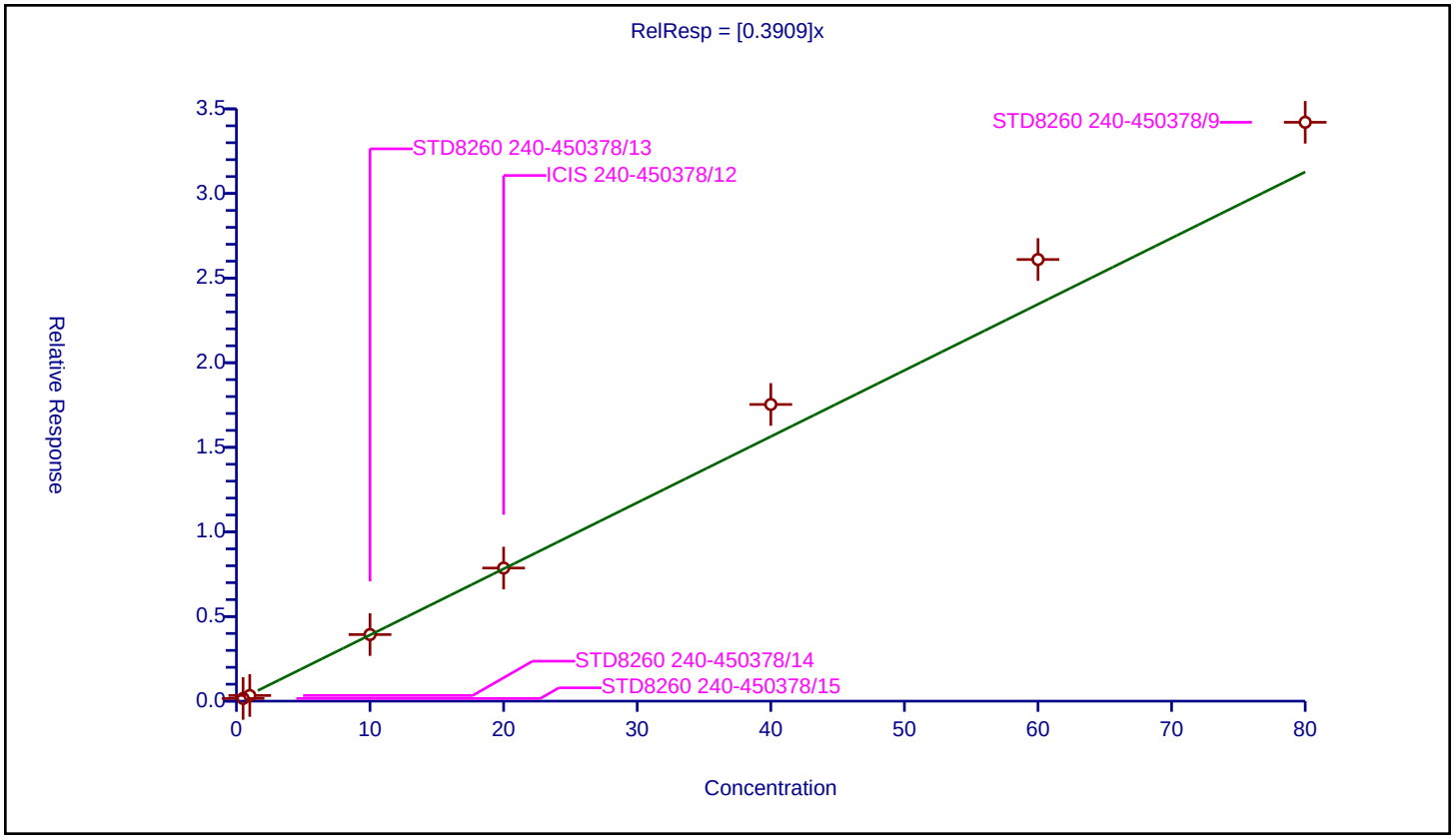
Curve Coefficients

Intercept:	0
Slope:	0.3909

Error Coefficients

Standard Error:	744000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.158193	20.0	695225.0	0.316387	Y
2	STD8260 240-450378/14	1.0	0.332491	20.0	706605.0	0.332491	Y
3	STD8260 240-450378/13	10.0	3.934287	20.0	754124.0	0.393429	Y
4	ICIS 240-450378/12	20.0	7.865951	20.0	743399.0	0.393298	Y
5	STD8260 240-450378/11	40.0	17.53404	20.0	768658.0	0.438351	Y
6	STD8260 240-450378/10	60.0	26.099589	20.0	763435.0	0.434993	Y
7	STD8260 240-450378/9	80.0	34.207591	20.0	778146.0	0.427595	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

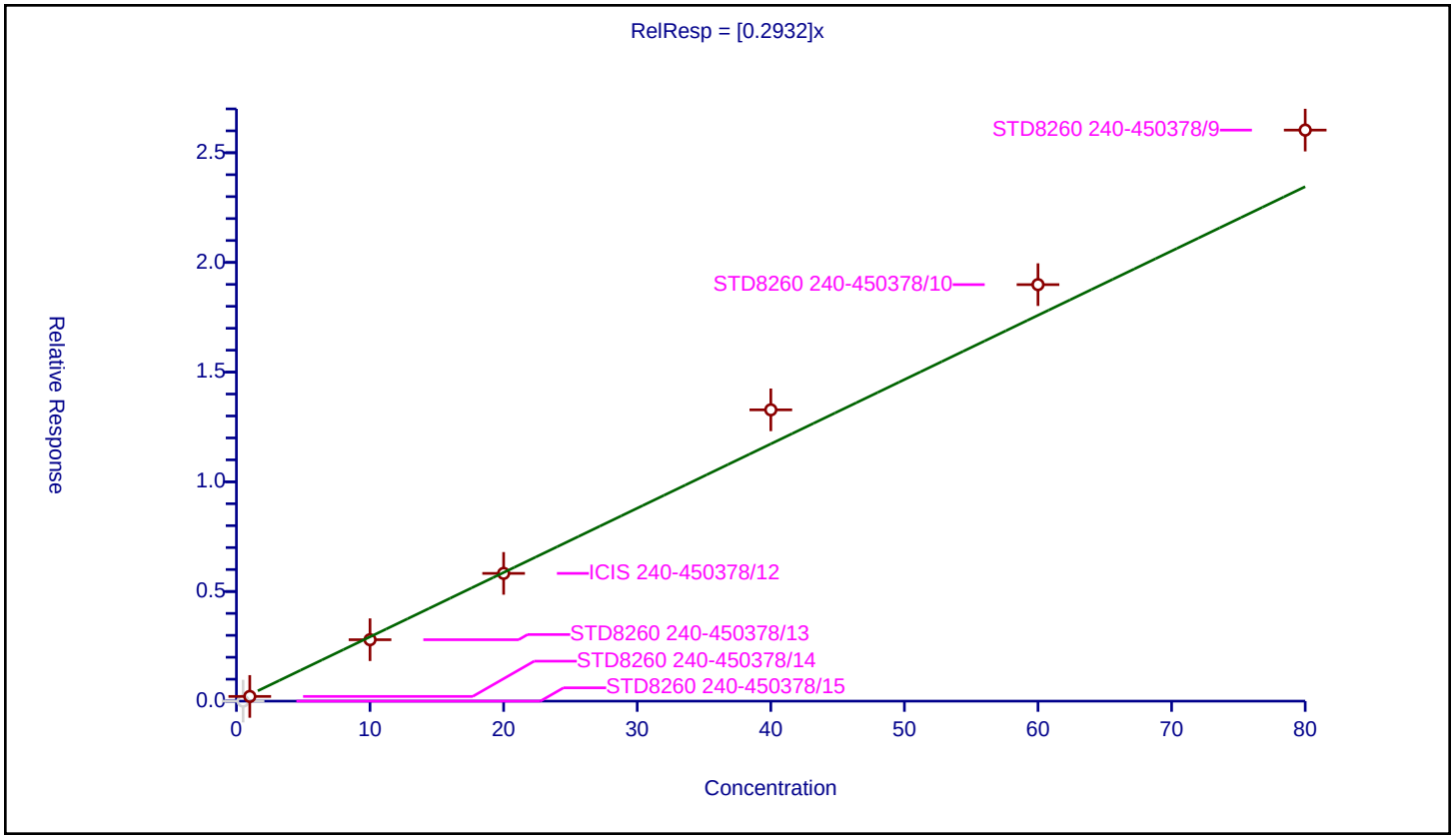
Curve Coefficients

Intercept:	0
Slope:	0.2932

Error Coefficients

Standard Error:	612000
Relative Standard Error:	14.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	695225.0	0.0	N
2	STD8260 240-450378/14	1.0	0.213868	20.0	706605.0	0.213868	Y
3	STD8260 240-450378/13	10.0	2.801157	20.0	754124.0	0.280116	Y
4	ICIS 240-450378/12	20.0	5.823871	20.0	743399.0	0.291194	Y
5	STD8260 240-450378/11	40.0	13.280809	20.0	768658.0	0.33202	Y
6	STD8260 240-450378/10	60.0	18.98886	20.0	763435.0	0.316481	Y
7	STD8260 240-450378/9	80.0	26.033007	20.0	778146.0	0.325413	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

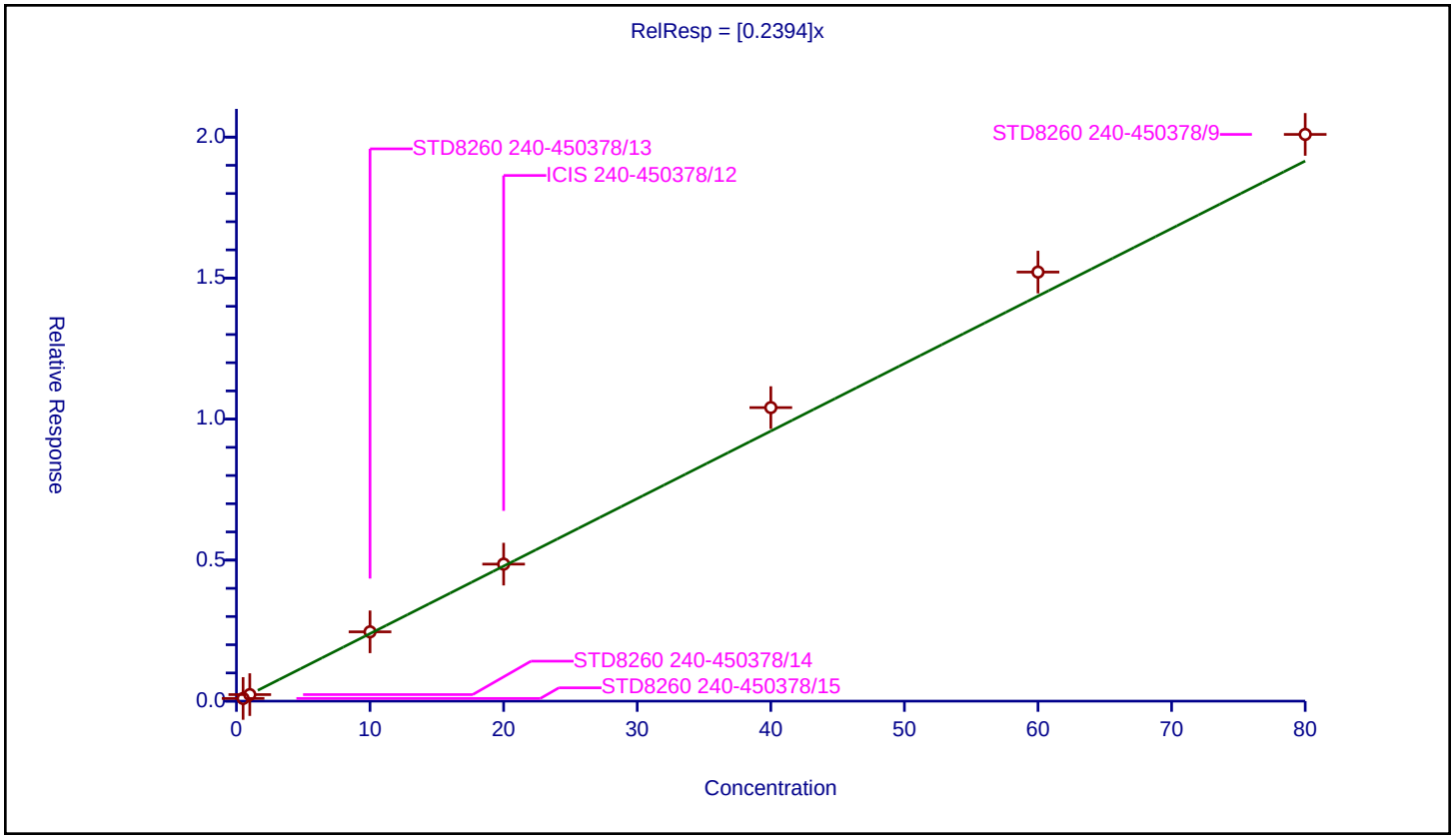
Curve Coefficients

Intercept:	0
Slope:	0.2394

Error Coefficients

Standard Error:	438000
Relative Standard Error:	9.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.095077	20.0	695225.0	0.190154	Y
2	STD8260 240-450378/14	1.0	0.232039	20.0	706605.0	0.232039	Y
3	STD8260 240-450378/13	10.0	2.457341	20.0	754124.0	0.245734	Y
4	ICIS 240-450378/12	20.0	4.858602	20.0	743399.0	0.24293	Y
5	STD8260 240-450378/11	40.0	10.408218	20.0	768658.0	0.260205	Y
6	STD8260 240-450378/10	60.0	15.213555	20.0	763435.0	0.253559	Y
7	STD8260 240-450378/9	80.0	20.095689	20.0	778146.0	0.251196	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

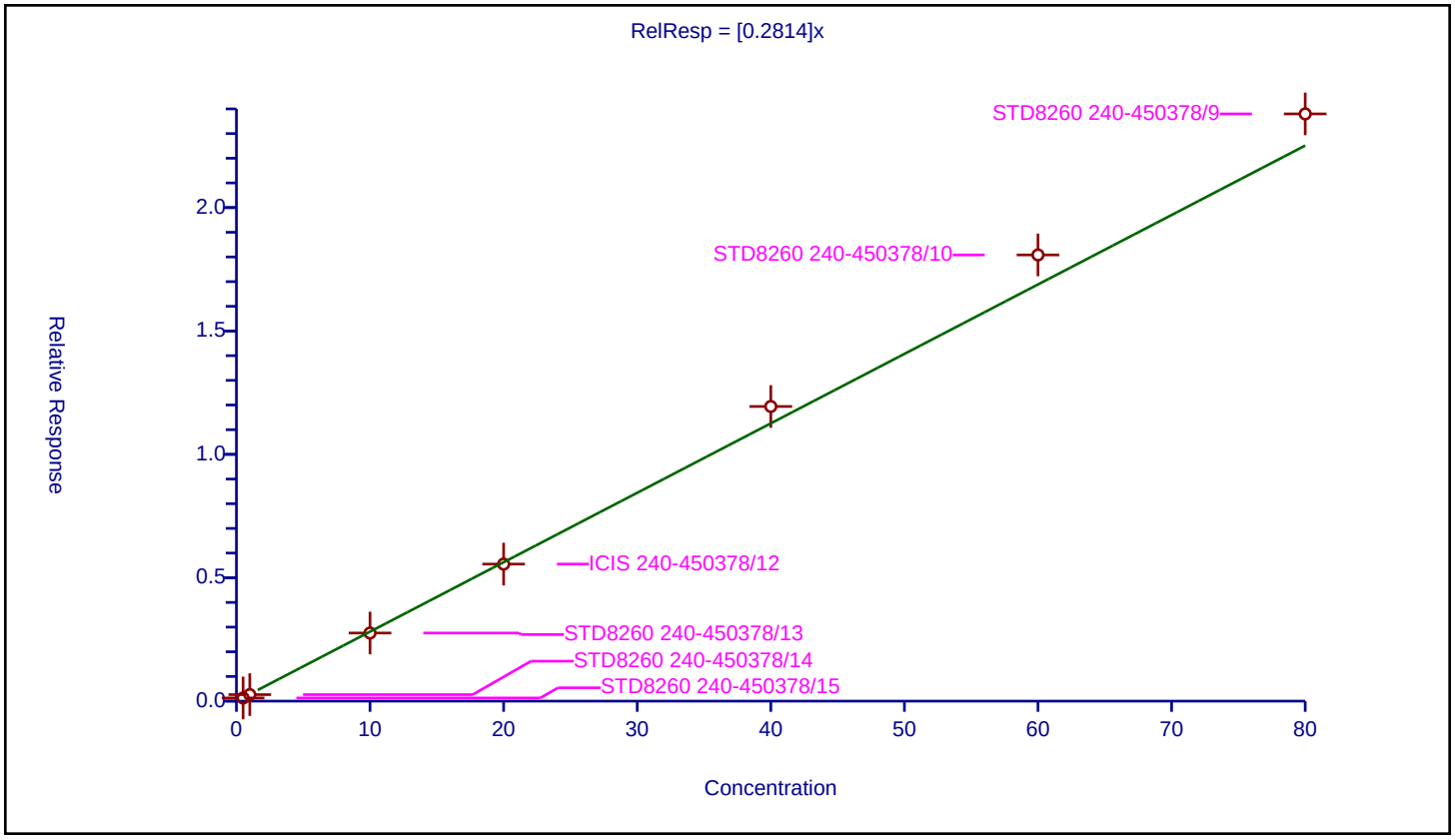
Curve Coefficients

Intercept:	0
Slope:	0.2814

Error Coefficients

Standard Error:	516000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.127498	20.0	695225.0	0.254997	Y
2	STD8260 240-450378/14	1.0	0.26391	20.0	706605.0	0.26391	Y
3	STD8260 240-450378/13	10.0	2.760713	20.0	754124.0	0.276071	Y
4	ICIS 240-450378/12	20.0	5.553142	20.0	743399.0	0.277657	Y
5	STD8260 240-450378/11	40.0	11.940941	20.0	768658.0	0.298524	Y
6	STD8260 240-450378/10	60.0	18.08209	20.0	763435.0	0.301368	Y
7	STD8260 240-450378/9	80.0	23.797051	20.0	778146.0	0.297463	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

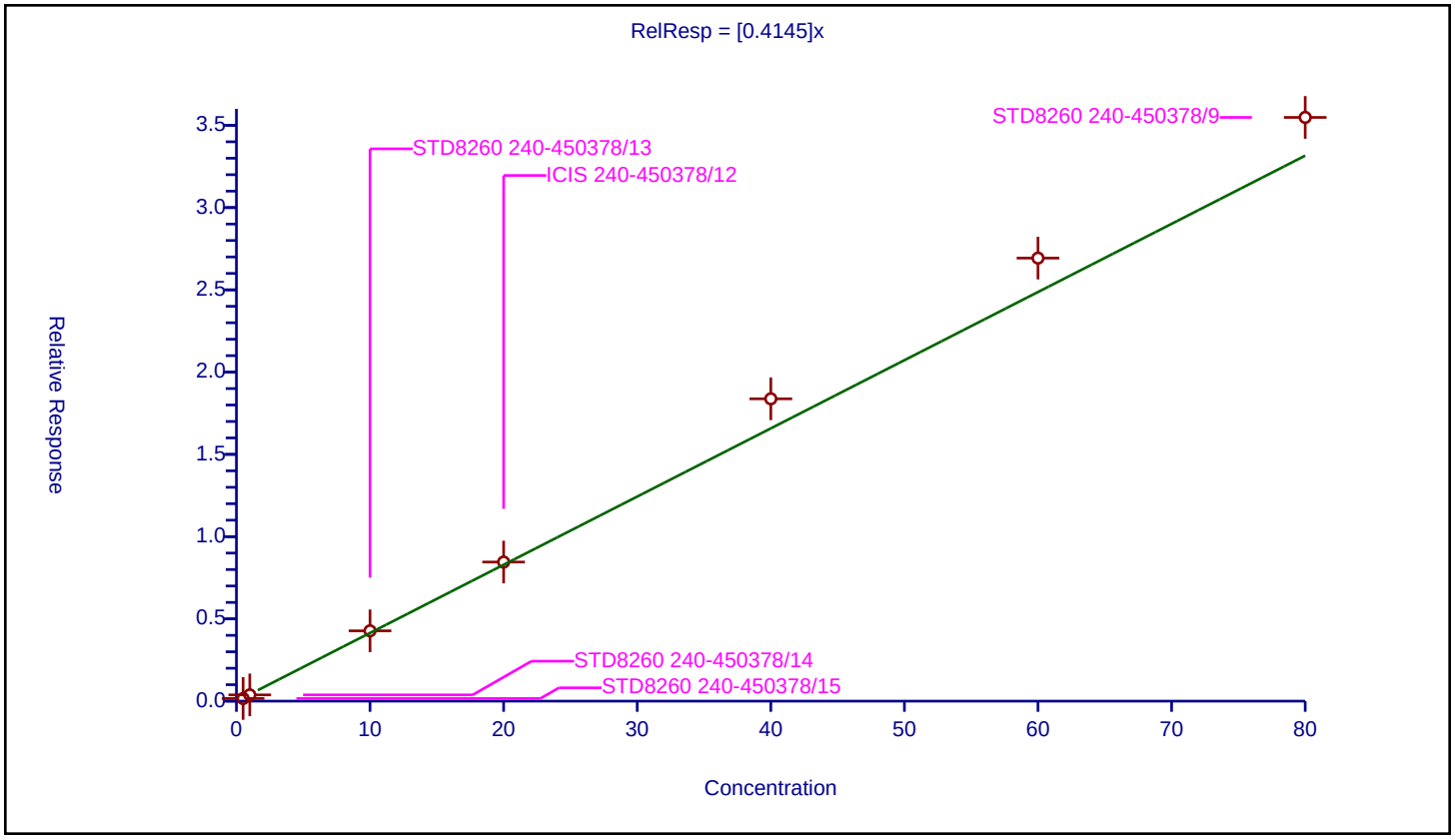
Curve Coefficients

Intercept:	0
Slope:	0.4145

Error Coefficients

Standard Error:	773000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.160236	20.0	695225.0	0.320472	Y
2	STD8260 240-450378/14	1.0	0.37908	20.0	706605.0	0.37908	Y
3	STD8260 240-450378/13	10.0	4.272666	20.0	754124.0	0.427267	Y
4	ICIS 240-450378/12	20.0	8.454733	20.0	743399.0	0.422737	Y
5	STD8260 240-450378/11	40.0	18.377198	20.0	768658.0	0.45943	Y
6	STD8260 240-450378/10	60.0	26.930754	20.0	763435.0	0.448846	Y
7	STD8260 240-450378/9	80.0	35.481465	20.0	778146.0	0.443518	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

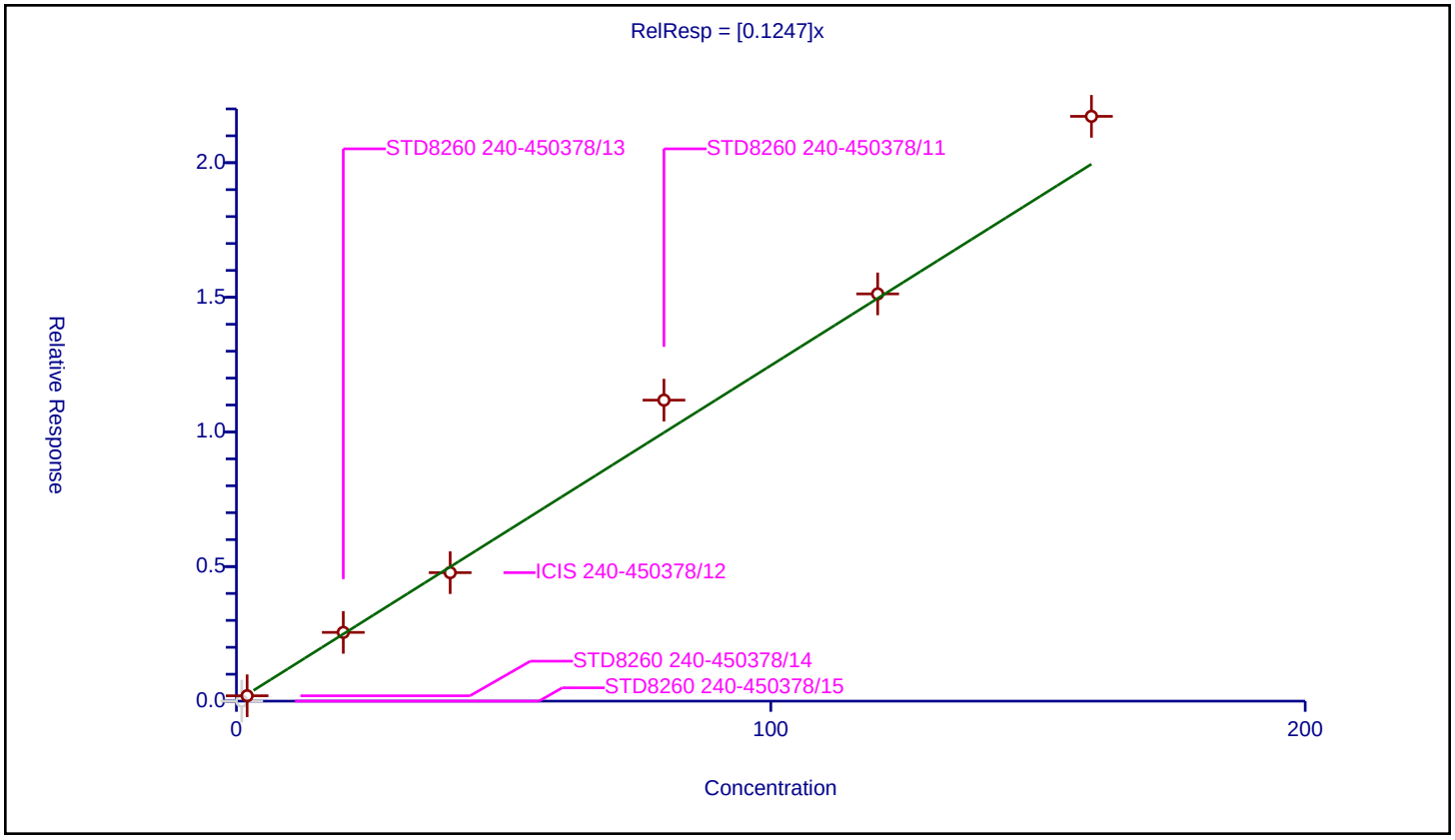
Curve Coefficients

Intercept:	0
Slope:	0.1247

Error Coefficients

Standard Error:	505000
Relative Standard Error:	11.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.0	20.0	695225.0	0.0	N
2	STD8260 240-450378/14	2.0	0.19898	20.0	706605.0	0.09949	Y
3	STD8260 240-450378/13	20.0	2.553824	20.0	754124.0	0.127691	Y
4	ICIS 240-450378/12	40.0	4.772861	20.0	743399.0	0.119322	Y
5	STD8260 240-450378/11	80.0	11.181149	20.0	768658.0	0.139764	Y
6	STD8260 240-450378/10	120.0	15.128282	20.0	763435.0	0.126069	Y
7	STD8260 240-450378/9	160.0	21.723404	20.0	778146.0	0.135771	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

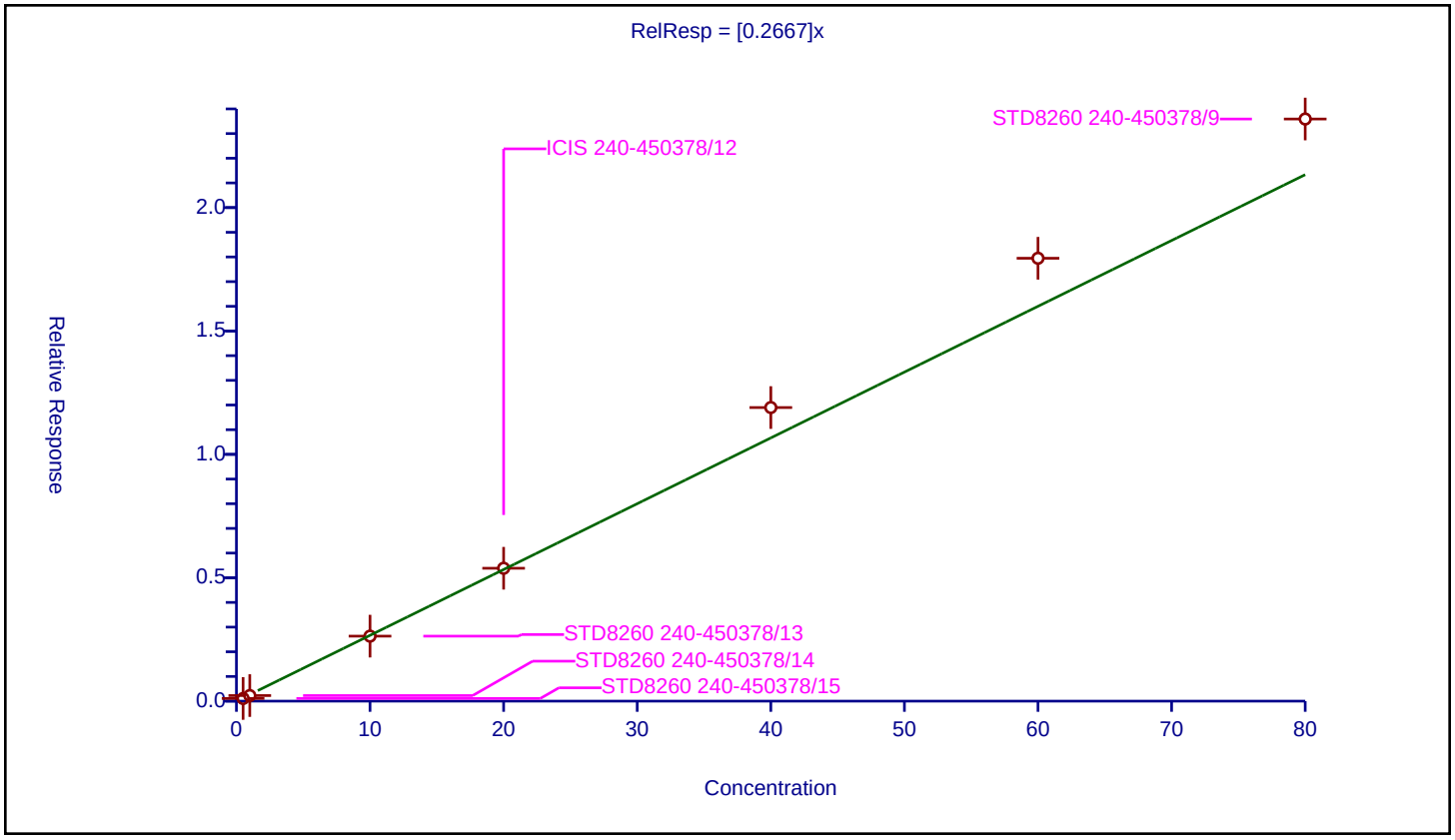
Curve Coefficients

Intercept:	0
Slope:	0.2667

Error Coefficients

Standard Error:	512000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.108166	20.0	695225.0	0.216333	Y
2	STD8260 240-450378/14	1.0	0.226293	20.0	706605.0	0.226293	Y
3	STD8260 240-450378/13	10.0	2.634182	20.0	754124.0	0.263418	Y
4	ICIS 240-450378/12	20.0	5.385345	20.0	743399.0	0.269267	Y
5	STD8260 240-450378/11	40.0	11.897463	20.0	768658.0	0.297437	Y
6	STD8260 240-450378/10	60.0	17.947461	20.0	763435.0	0.299124	Y
7	STD8260 240-450378/9	80.0	23.589378	20.0	778146.0	0.294867	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

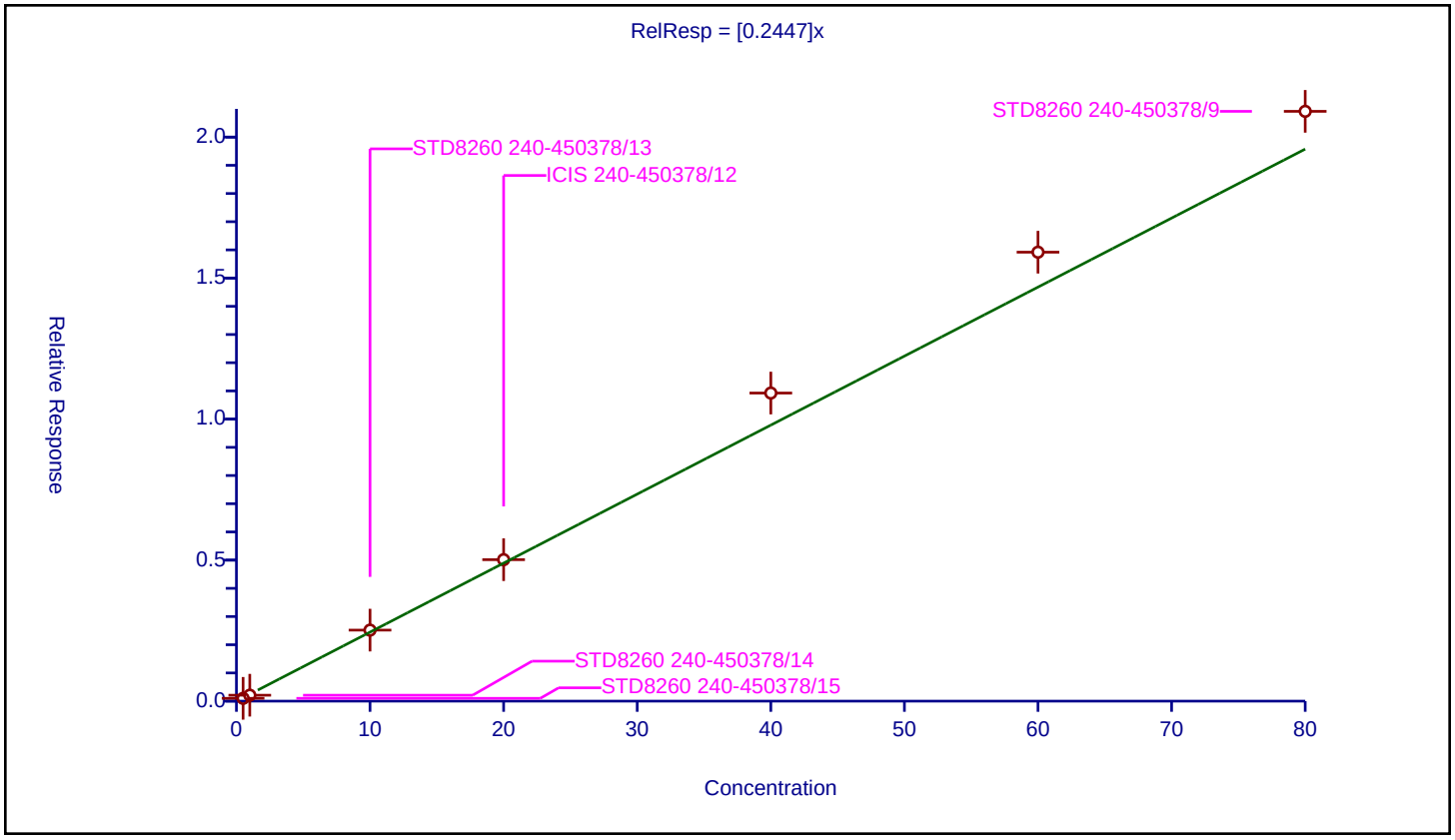
Curve Coefficients

Intercept:	0
Slope:	0.2447

Error Coefficients

Standard Error:	457000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.099881	20.0	695225.0	0.199763	Y
2	STD8260 240-450378/14	1.0	0.210528	20.0	706605.0	0.210528	Y
3	STD8260 240-450378/13	10.0	2.518657	20.0	754124.0	0.251866	Y
4	ICIS 240-450378/12	20.0	5.015987	20.0	743399.0	0.250799	Y
5	STD8260 240-450378/11	40.0	10.924312	20.0	768658.0	0.273108	Y
6	STD8260 240-450378/10	60.0	15.919076	20.0	763435.0	0.265318	Y
7	STD8260 240-450378/9	80.0	20.913428	20.0	778146.0	0.261418	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

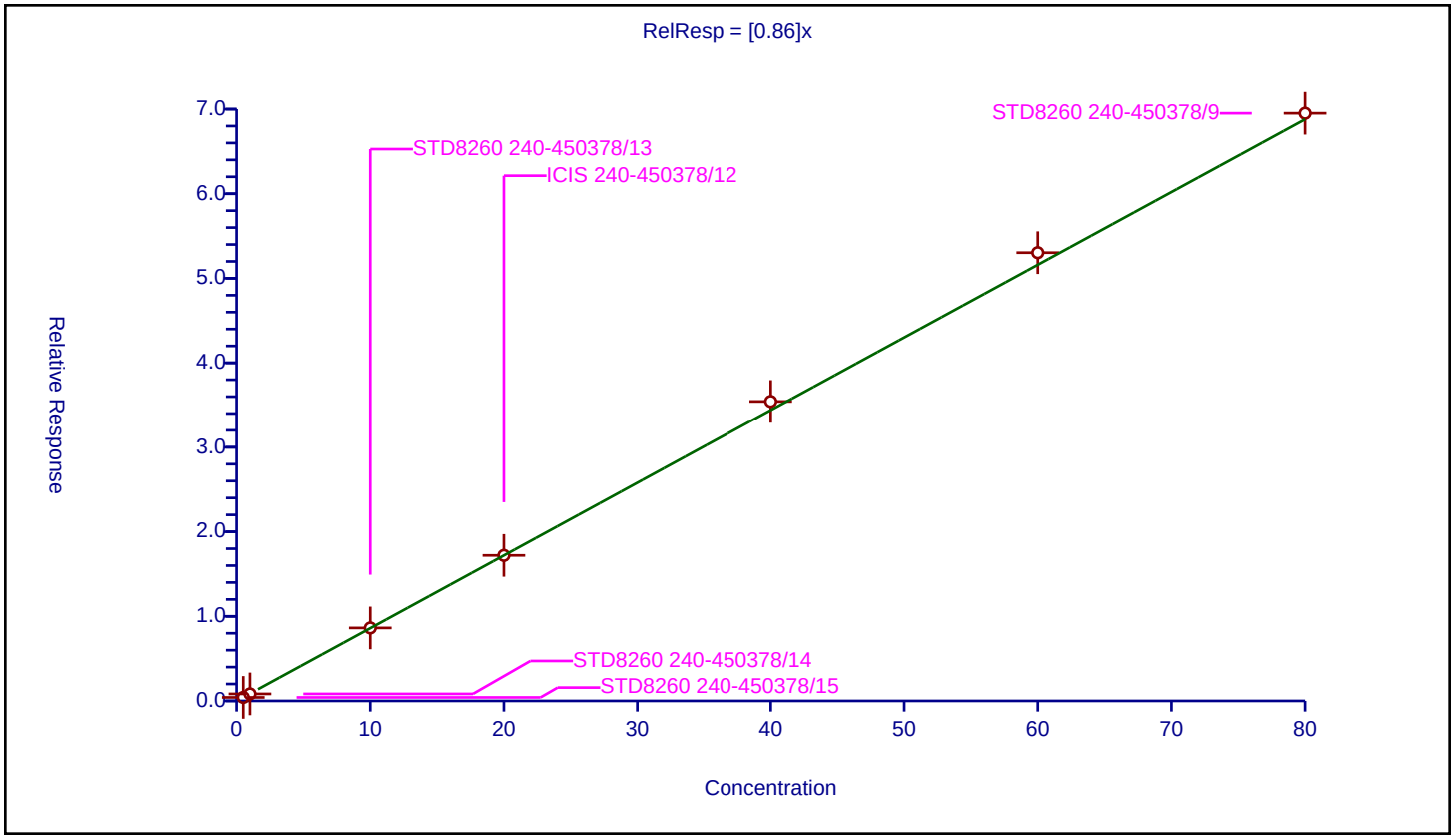
Curve Coefficients

Intercept:	0
Slope:	0.86

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.414226	20.0	695225.0	0.828451	Y
2	STD8260 240-450378/14	1.0	0.829657	20.0	706605.0	0.829657	Y
3	STD8260 240-450378/13	10.0	8.63065	20.0	754124.0	0.863065	Y
4	ICIS 240-450378/12	20.0	17.206668	20.0	743399.0	0.860333	Y
5	STD8260 240-450378/11	40.0	35.42811	20.0	768658.0	0.885703	Y
6	STD8260 240-450378/10	60.0	53.031941	20.0	763435.0	0.883866	Y
7	STD8260 240-450378/9	80.0	69.513922	20.0	778146.0	0.868924	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

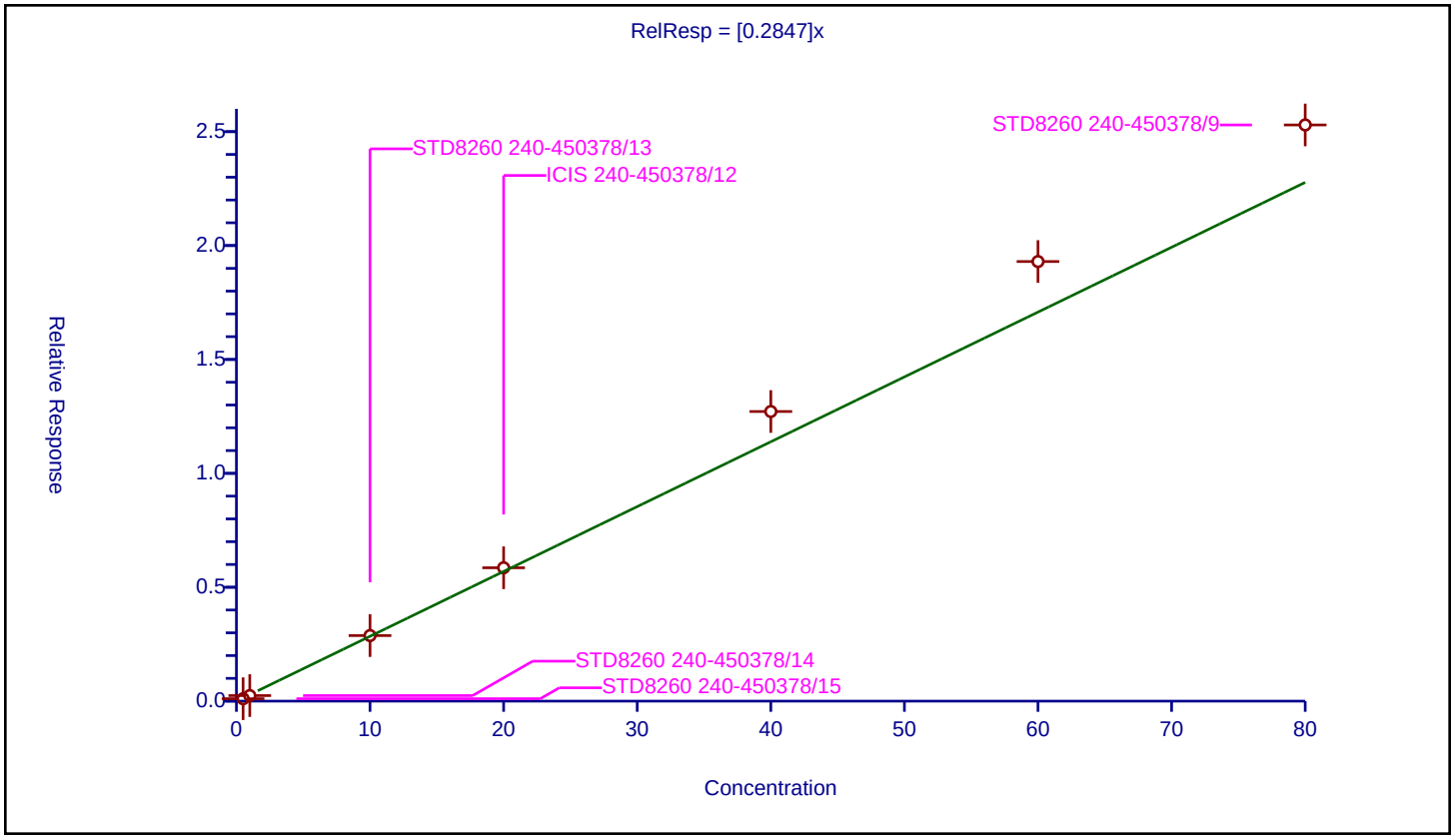
Curve Coefficients

Intercept:	0
Slope:	0.2847

Error Coefficients

Standard Error:	549000
Relative Standard Error:	14.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.106555	20.0	695225.0	0.213111	Y
2	STD8260 240-450378/14	1.0	0.243248	20.0	706605.0	0.243248	Y
3	STD8260 240-450378/13	10.0	2.878306	20.0	754124.0	0.287831	Y
4	ICIS 240-450378/12	20.0	5.854433	20.0	743399.0	0.292722	Y
5	STD8260 240-450378/11	40.0	12.715252	20.0	768658.0	0.317881	Y
6	STD8260 240-450378/10	60.0	19.299377	20.0	763435.0	0.321656	Y
7	STD8260 240-450378/9	80.0	25.295304	20.0	778146.0	0.316191	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

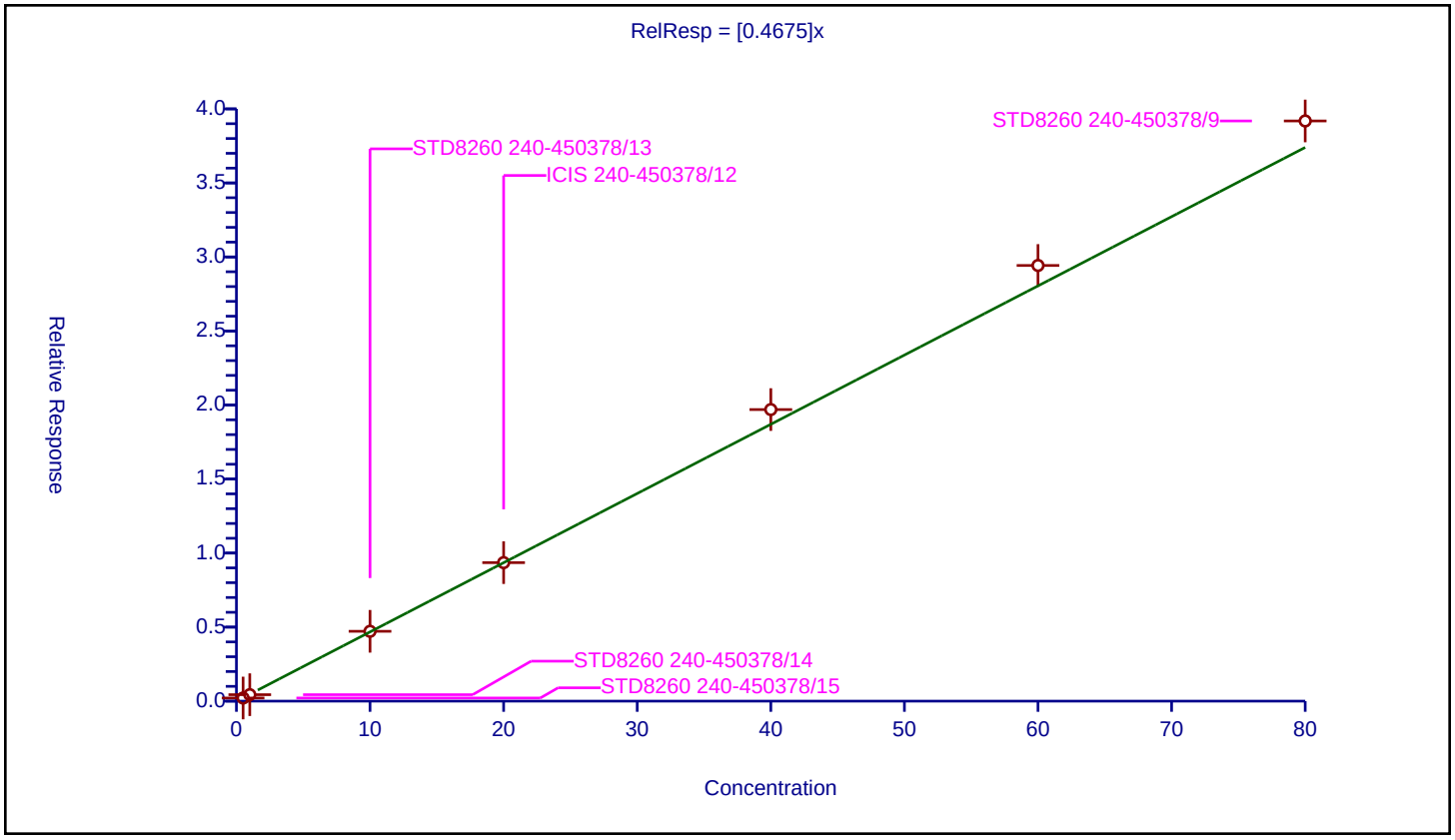
Curve Coefficients

Intercept:	0
Slope:	0.4675

Error Coefficients

Standard Error:	848000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.211701	20.0	695225.0	0.423402	Y
2	STD8260 240-450378/14	1.0	0.436878	20.0	706605.0	0.436878	Y
3	STD8260 240-450378/13	10.0	4.716598	20.0	754124.0	0.47166	Y
4	ICIS 240-450378/12	20.0	9.35468	20.0	743399.0	0.467734	Y
5	STD8260 240-450378/11	40.0	19.693154	20.0	768658.0	0.492329	Y
6	STD8260 240-450378/10	60.0	29.424299	20.0	763435.0	0.490405	Y
7	STD8260 240-450378/9	80.0	39.185371	20.0	778146.0	0.489817	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

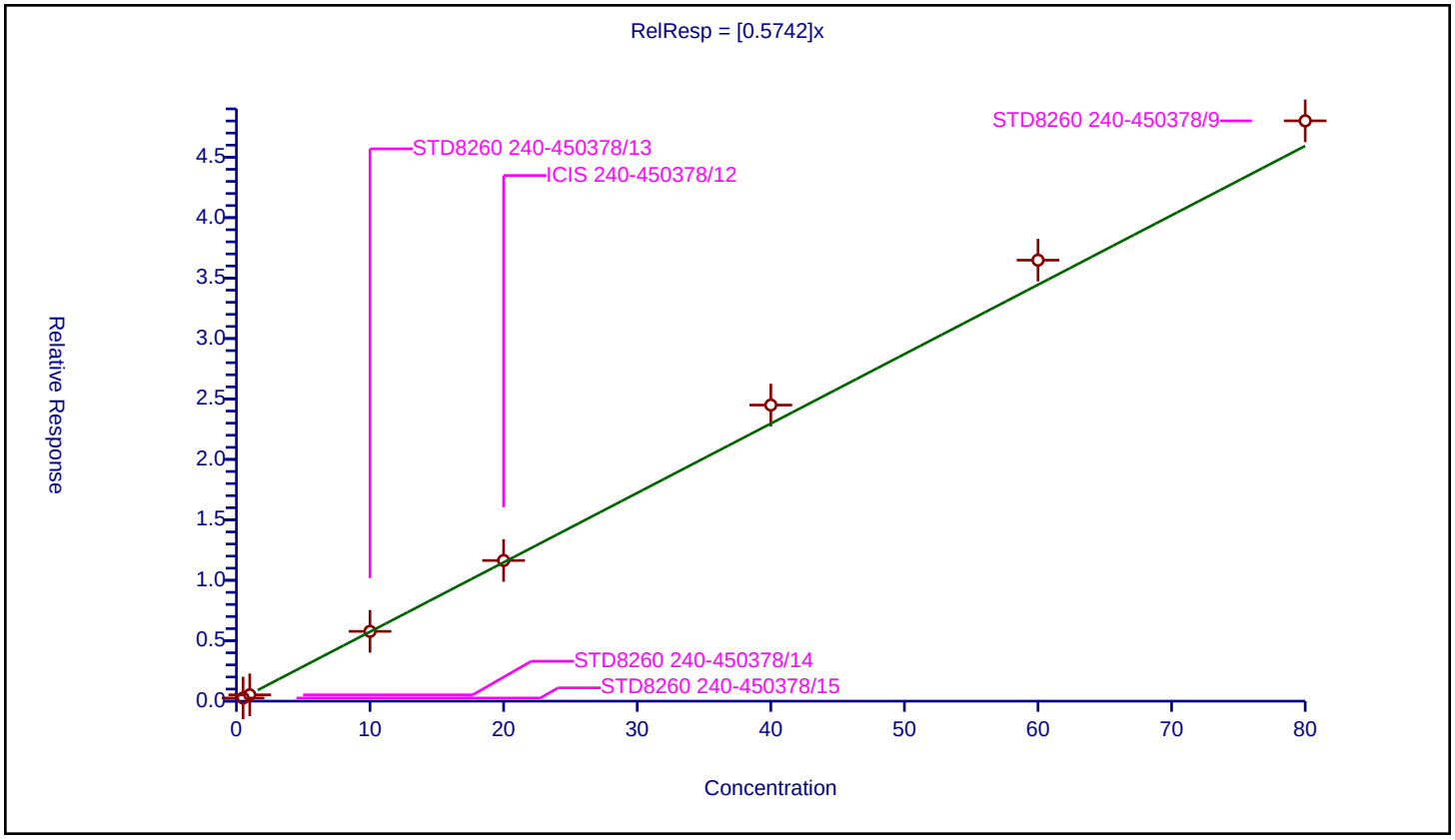
Curve Coefficients

Intercept:	0
Slope:	0.5742

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.257988	20.0	695225.0	0.515977	Y
2	STD8260 240-450378/14	1.0	0.523234	20.0	706605.0	0.523234	Y
3	STD8260 240-450378/13	10.0	5.775363	20.0	754124.0	0.577536	Y
4	ICIS 240-450378/12	20.0	11.638219	20.0	743399.0	0.581911	Y
5	STD8260 240-450378/11	40.0	24.496928	20.0	768658.0	0.612423	Y
6	STD8260 240-450378/10	60.0	36.484599	20.0	763435.0	0.608077	Y
7	STD8260 240-450378/9	80.0	48.011556	20.0	778146.0	0.600144	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

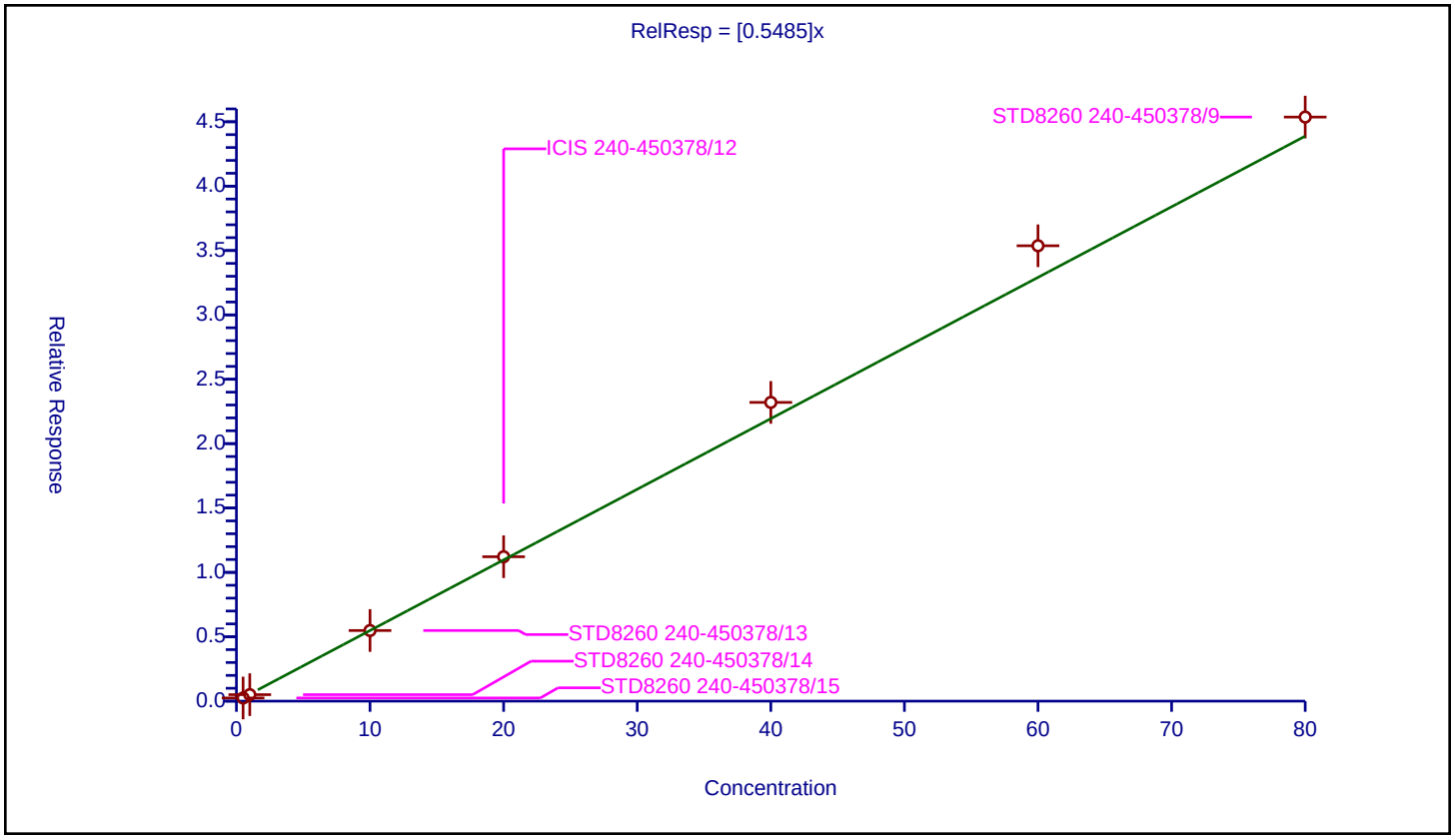
Curve Coefficients

Intercept:	0
Slope:	0.5485

Error Coefficients

Standard Error:	996000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.244669	20.0	695225.0	0.489338	Y
2	STD8260 240-450378/14	1.0	0.50461	20.0	706605.0	0.50461	Y
3	STD8260 240-450378/13	10.0	5.484111	20.0	754124.0	0.548411	Y
4	ICIS 240-450378/12	20.0	11.215996	20.0	743399.0	0.5608	Y
5	STD8260 240-450378/11	40.0	23.204104	20.0	768658.0	0.580103	Y
6	STD8260 240-450378/10	60.0	35.369377	20.0	763435.0	0.58949	Y
7	STD8260 240-450378/9	80.0	45.365394	20.0	778146.0	0.567067	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

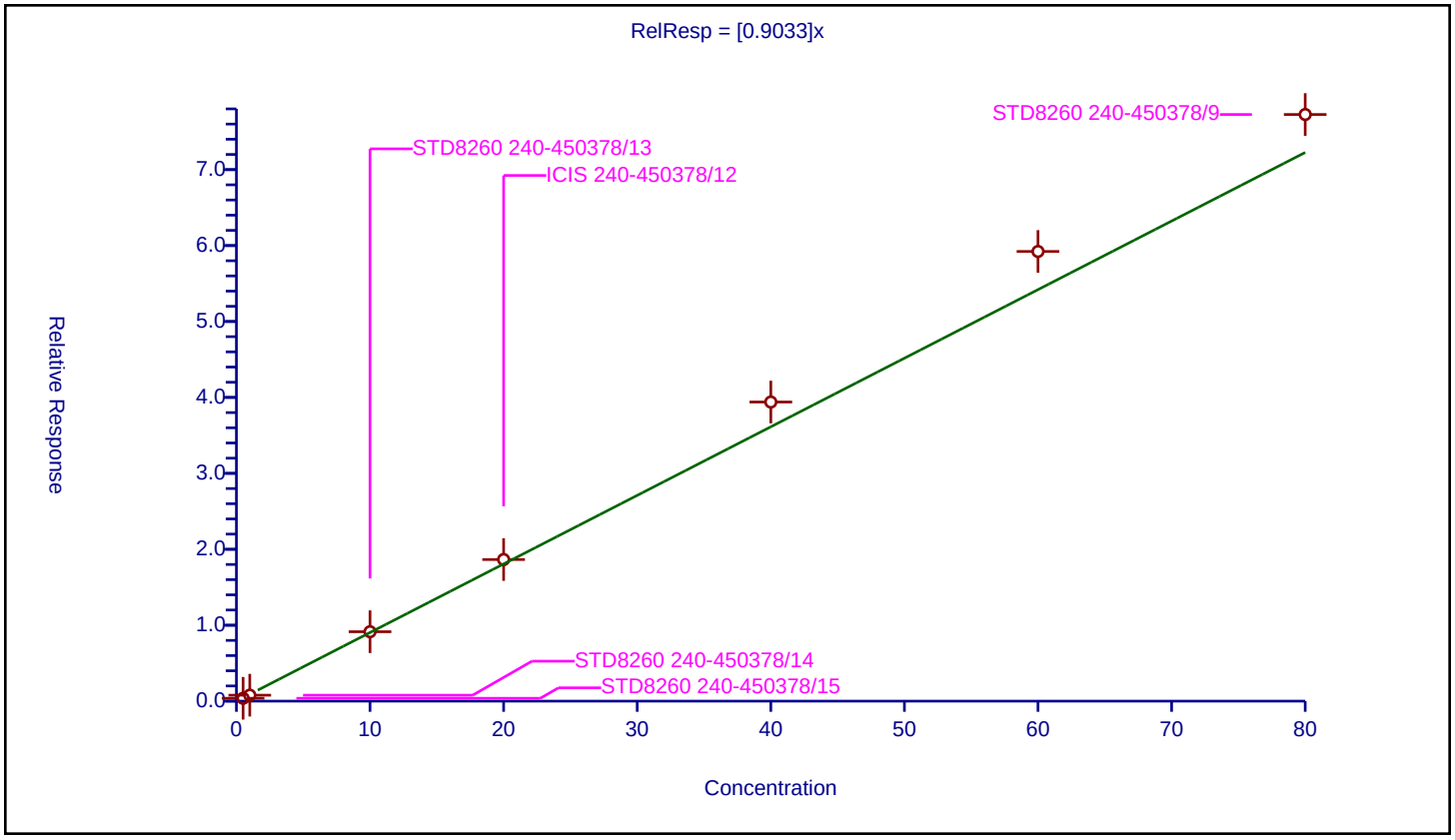
Curve Coefficients

Intercept:	0
Slope:	0.9033

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.377576	20.0	695225.0	0.755151	Y
2	STD8260 240-450378/14	1.0	0.783408	20.0	706605.0	0.783408	Y
3	STD8260 240-450378/13	10.0	9.142873	20.0	754124.0	0.914287	Y
4	ICIS 240-450378/12	20.0	18.649796	20.0	743399.0	0.93249	Y
5	STD8260 240-450378/11	40.0	39.392916	20.0	768658.0	0.984823	Y
6	STD8260 240-450378/10	60.0	59.223981	20.0	763435.0	0.987066	Y
7	STD8260 240-450378/9	80.0	77.260668	20.0	778146.0	0.965758	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

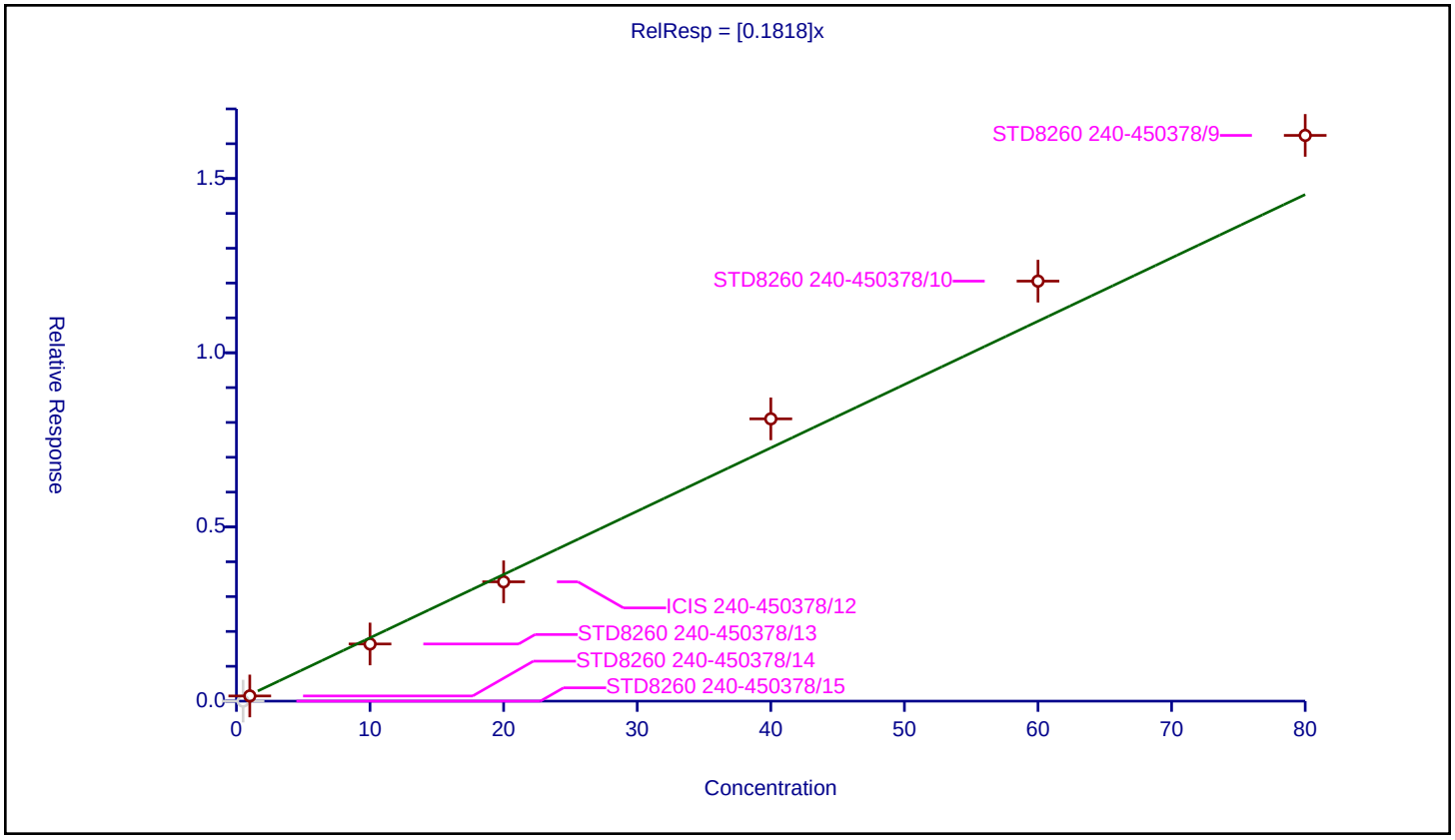
Curve Coefficients

Intercept:	0
Slope:	0.1818

Error Coefficients

Standard Error:	382000
Relative Standard Error:	12.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	695225.0	0.0	N
2	STD8260 240-450378/14	1.0	0.148768	20.0	706605.0	0.148768	Y
3	STD8260 240-450378/13	10.0	1.640712	20.0	754124.0	0.164071	Y
4	ICIS 240-450378/12	20.0	3.425321	20.0	743399.0	0.171266	Y
5	STD8260 240-450378/11	40.0	8.102823	20.0	768658.0	0.202571	Y
6	STD8260 240-450378/10	60.0	12.056167	20.0	763435.0	0.200936	Y
7	STD8260 240-450378/9	80.0	16.239292	20.0	778146.0	0.202991	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

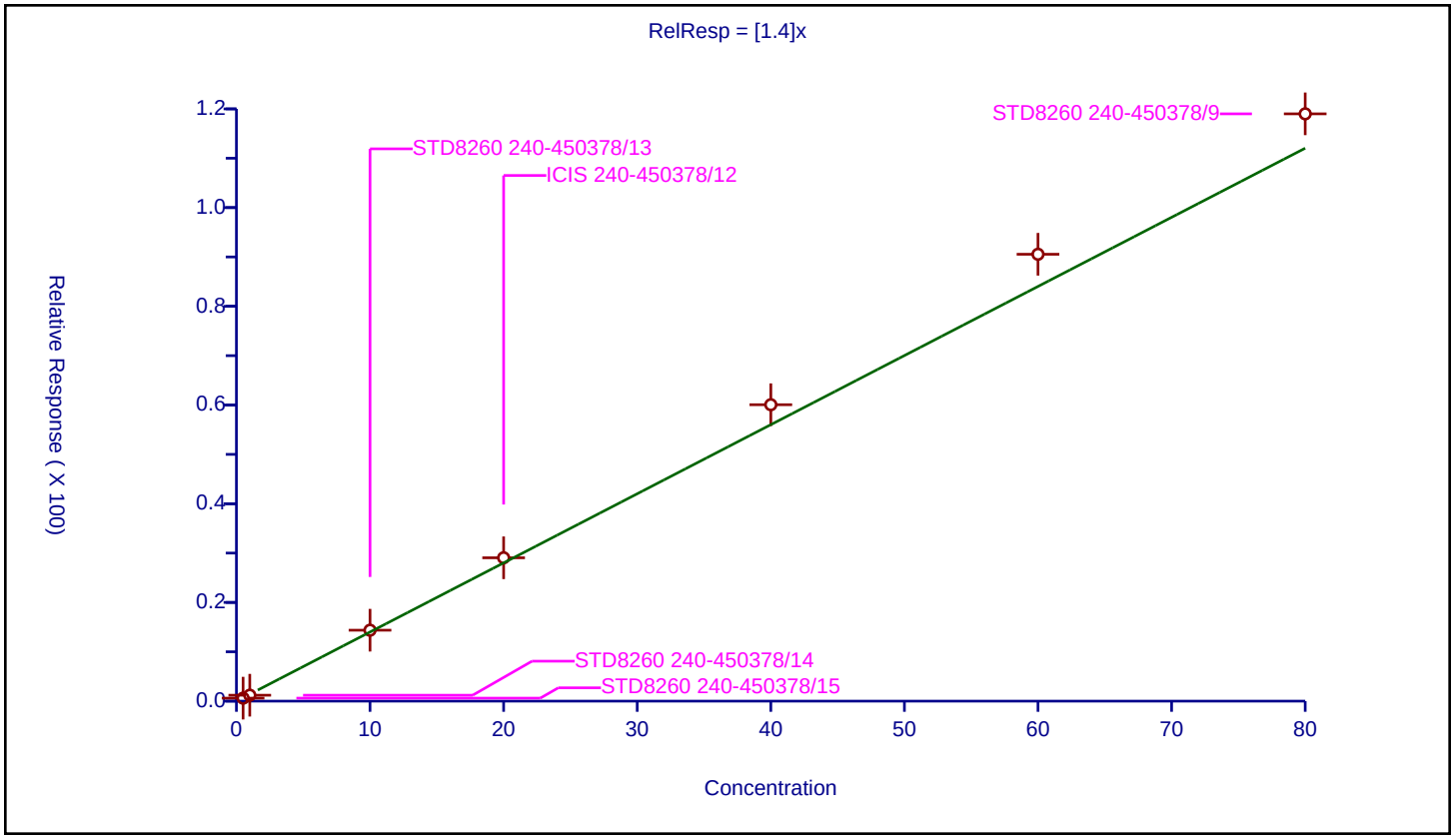
Curve Coefficients

Intercept:	0
Slope:	1.4

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.60671	20.0	695225.0	1.21342	Y
2	STD8260 240-450378/14	1.0	1.20186	20.0	706605.0	1.20186	Y
3	STD8260 240-450378/13	10.0	14.374533	20.0	754124.0	1.437453	Y
4	ICIS 240-450378/12	20.0	29.044995	20.0	743399.0	1.45225	Y
5	STD8260 240-450378/11	40.0	60.063149	20.0	768658.0	1.501579	Y
6	STD8260 240-450378/10	60.0	90.543556	20.0	763435.0	1.509059	Y
7	STD8260 240-450378/9	80.0	118.997669	20.0	778146.0	1.487471	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

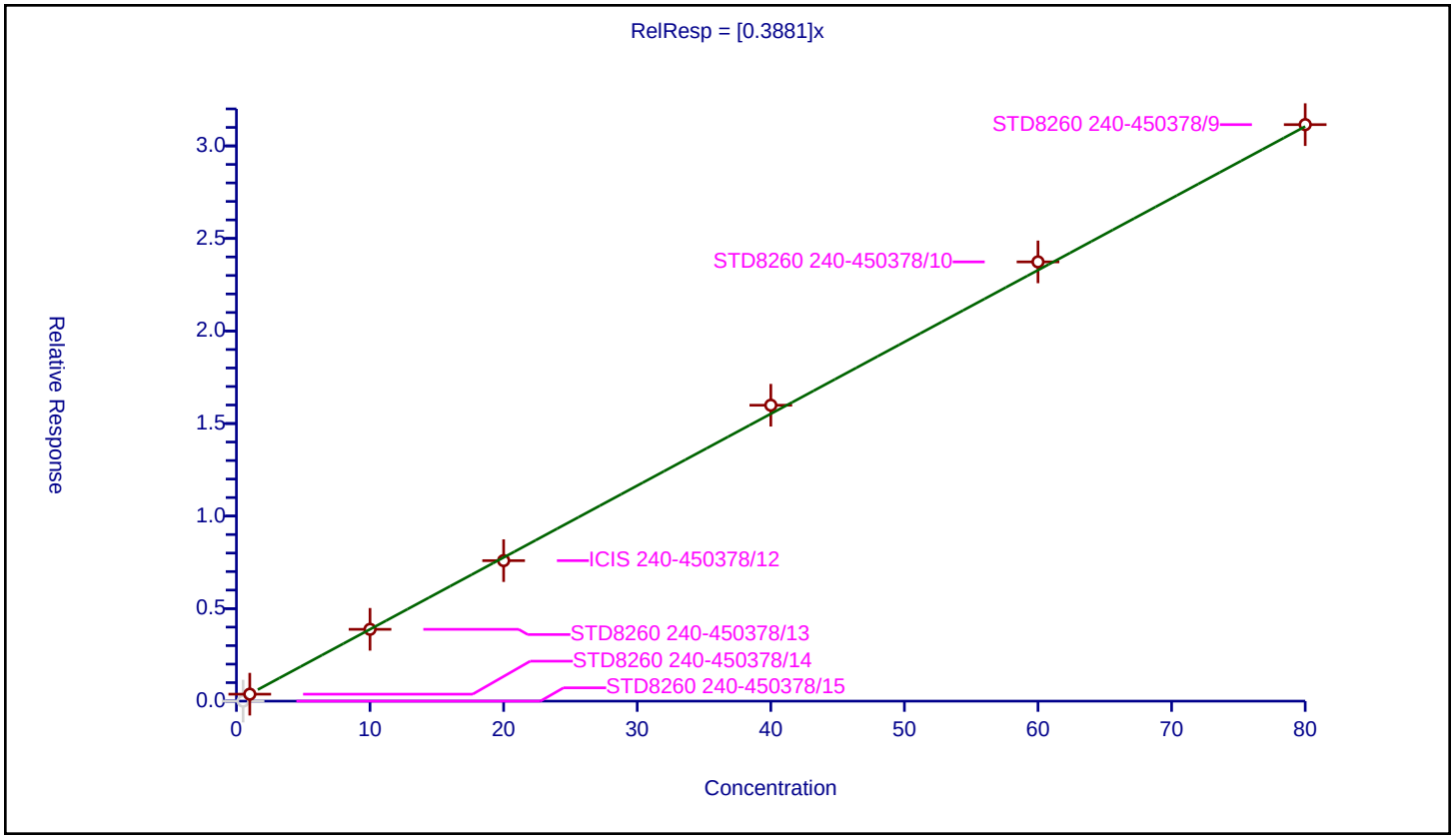
Curve Coefficients

Intercept:	0
Slope:	0.3881

Error Coefficients

Standard Error:	744000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	695225.0	0.0	N
2	STD8260 240-450378/14	1.0	0.376533	20.0	706605.0	0.376533	Y
3	STD8260 240-450378/13	10.0	3.880449	20.0	754124.0	0.388045	Y
4	ICIS 240-450378/12	20.0	7.591347	20.0	743399.0	0.379567	Y
5	STD8260 240-450378/11	40.0	15.988541	20.0	768658.0	0.399714	Y
6	STD8260 240-450378/10	60.0	23.734306	20.0	763435.0	0.395572	Y
7	STD8260 240-450378/9	80.0	31.150041	20.0	778146.0	0.389376	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

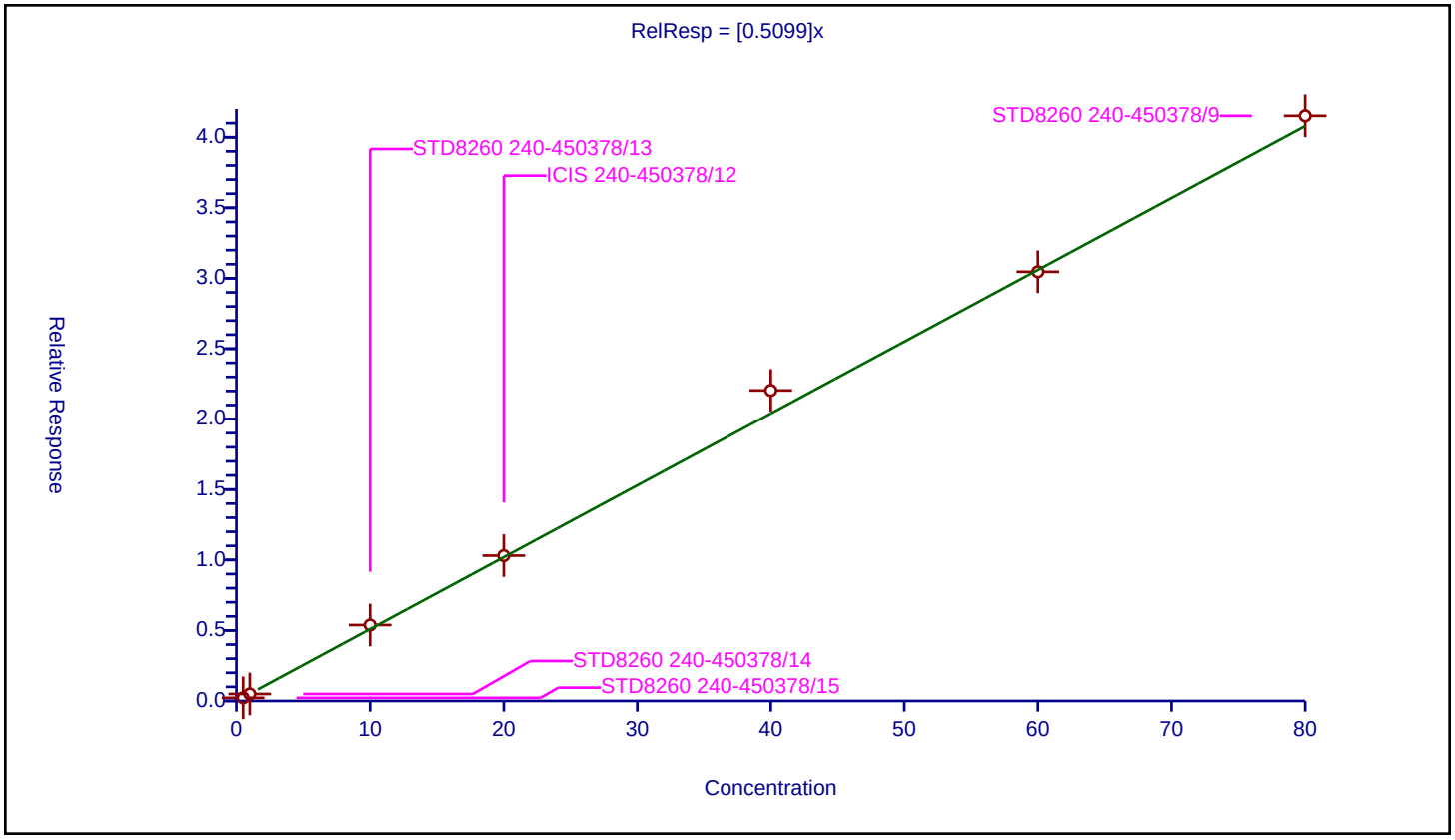
Curve Coefficients

Intercept:	0
Slope:	0.5099

Error Coefficients

Standard Error:	521000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.2213	20.0	385450.0	0.4426	Y
2	STD8260 240-450378/14	1.0	0.495281	20.0	380148.0	0.495281	Y
3	STD8260 240-450378/13	10.0	5.386113	20.0	410385.0	0.538611	Y
4	ICIS 240-450378/12	20.0	10.307408	20.0	412806.0	0.51537	Y
5	STD8260 240-450378/11	40.0	22.039095	20.0	434281.0	0.550977	Y
6	STD8260 240-450378/10	60.0	30.465155	20.0	445572.0	0.507753	Y
7	STD8260 240-450378/9	80.0	41.515628	20.0	451694.0	0.518945	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

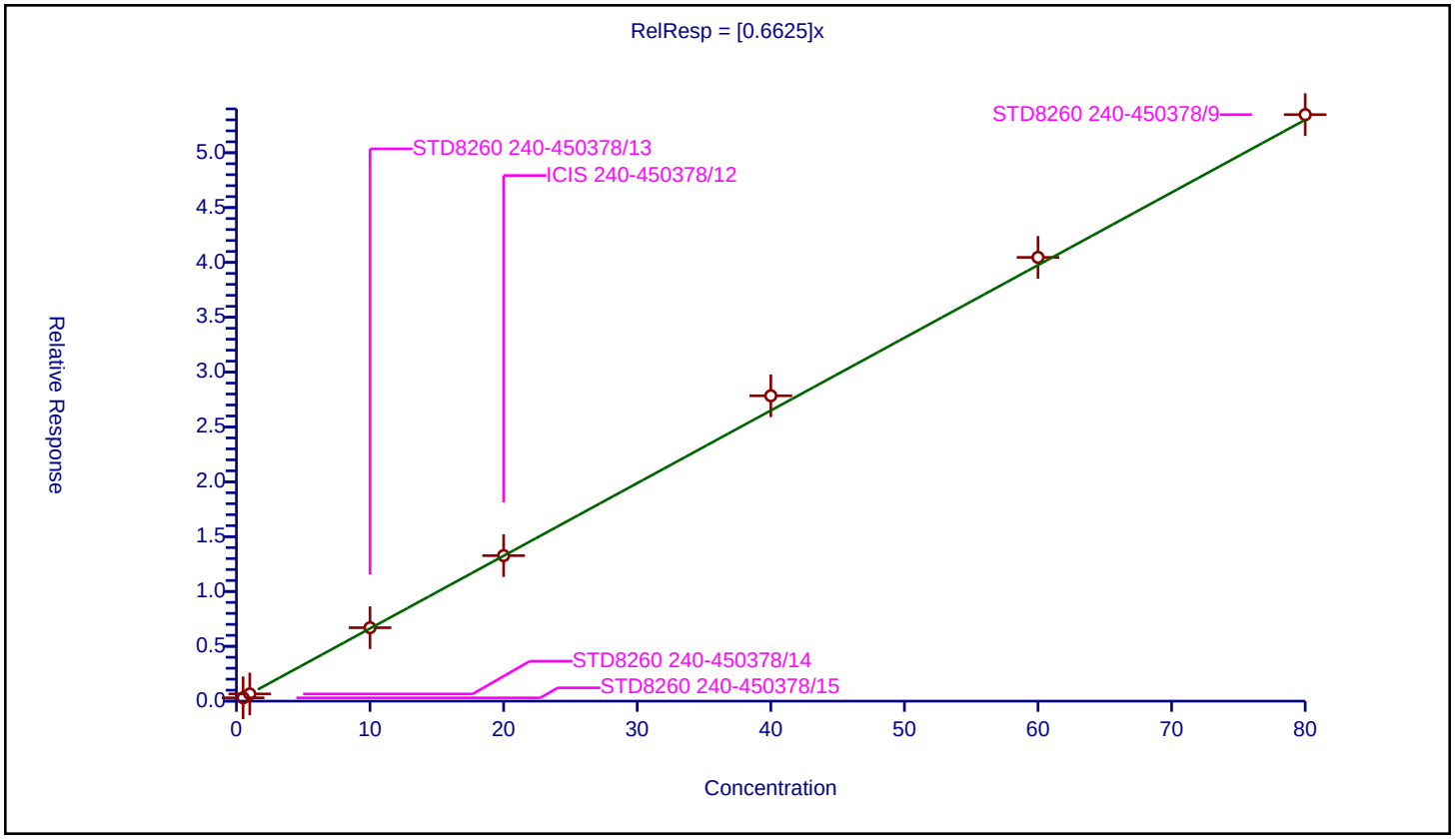
Curve Coefficients

Intercept:	0
Slope:	0.6625

Error Coefficients

Standard Error:	675000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.304787	20.0	385450.0	0.609573	Y
2	STD8260 240-450378/14	1.0	0.656165	20.0	380148.0	0.656165	Y
3	STD8260 240-450378/13	10.0	6.696882	20.0	410385.0	0.669688	Y
4	ICIS 240-450378/12	20.0	13.268945	20.0	412806.0	0.663447	Y
5	STD8260 240-450378/11	40.0	27.843401	20.0	434281.0	0.696085	Y
6	STD8260 240-450378/10	60.0	40.460936	20.0	445572.0	0.674349	Y
7	STD8260 240-450378/9	80.0	53.474565	20.0	451694.0	0.668432	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

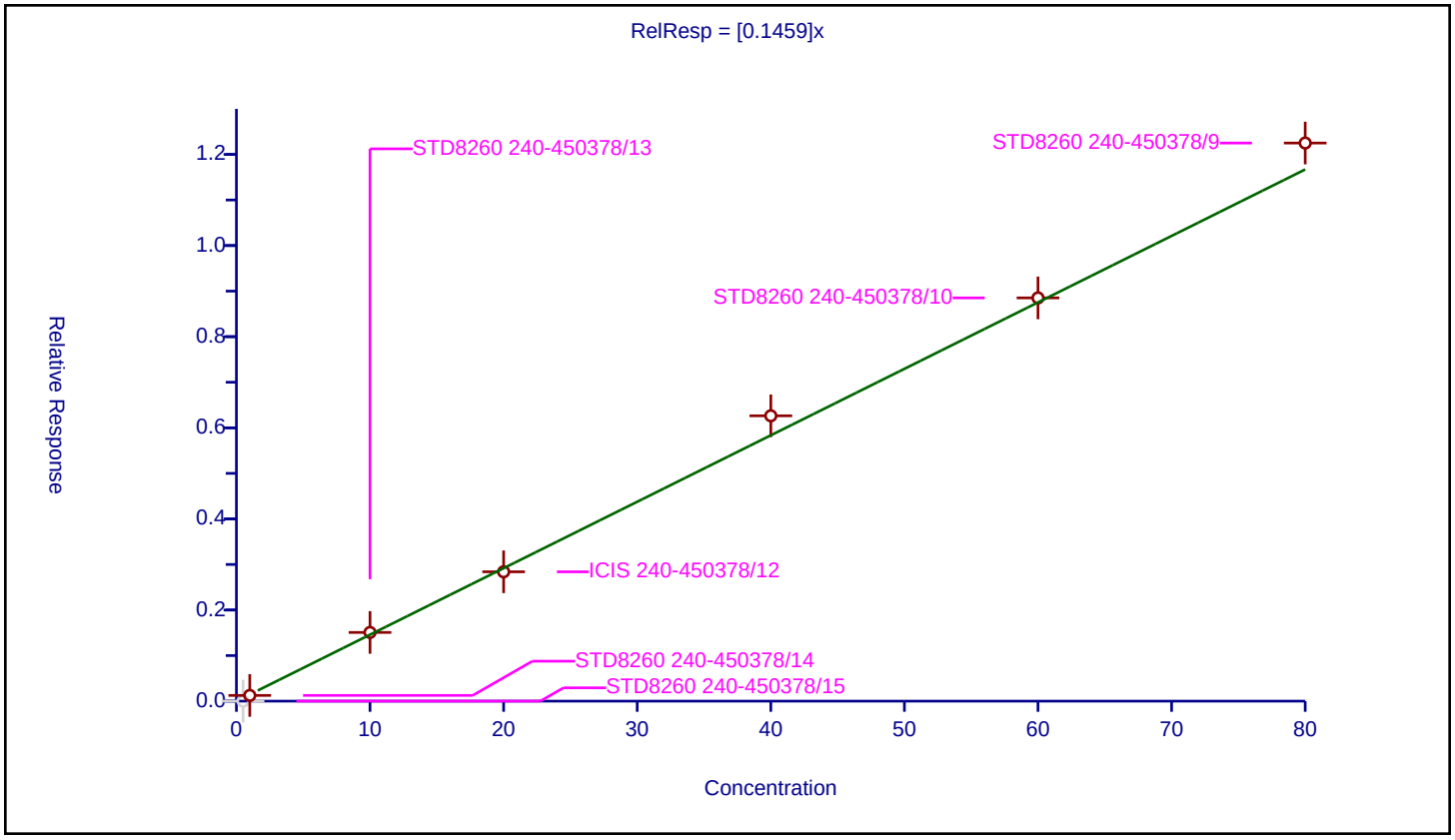
Curve Coefficients

Intercept:	0
Slope:	0.1459

Error Coefficients

Standard Error:	166000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	385450.0	0.0	N
2	STD8260 240-450378/14	1.0	0.125267	20.0	380148.0	0.125267	Y
3	STD8260 240-450378/13	10.0	1.508194	20.0	410385.0	0.150819	Y
4	ICIS 240-450378/12	20.0	2.839106	20.0	412806.0	0.141955	Y
5	STD8260 240-450378/11	40.0	6.263364	20.0	434281.0	0.156584	Y
6	STD8260 240-450378/10	60.0	8.851319	20.0	445572.0	0.147522	Y
7	STD8260 240-450378/9	80.0	12.250329	20.0	451694.0	0.153129	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

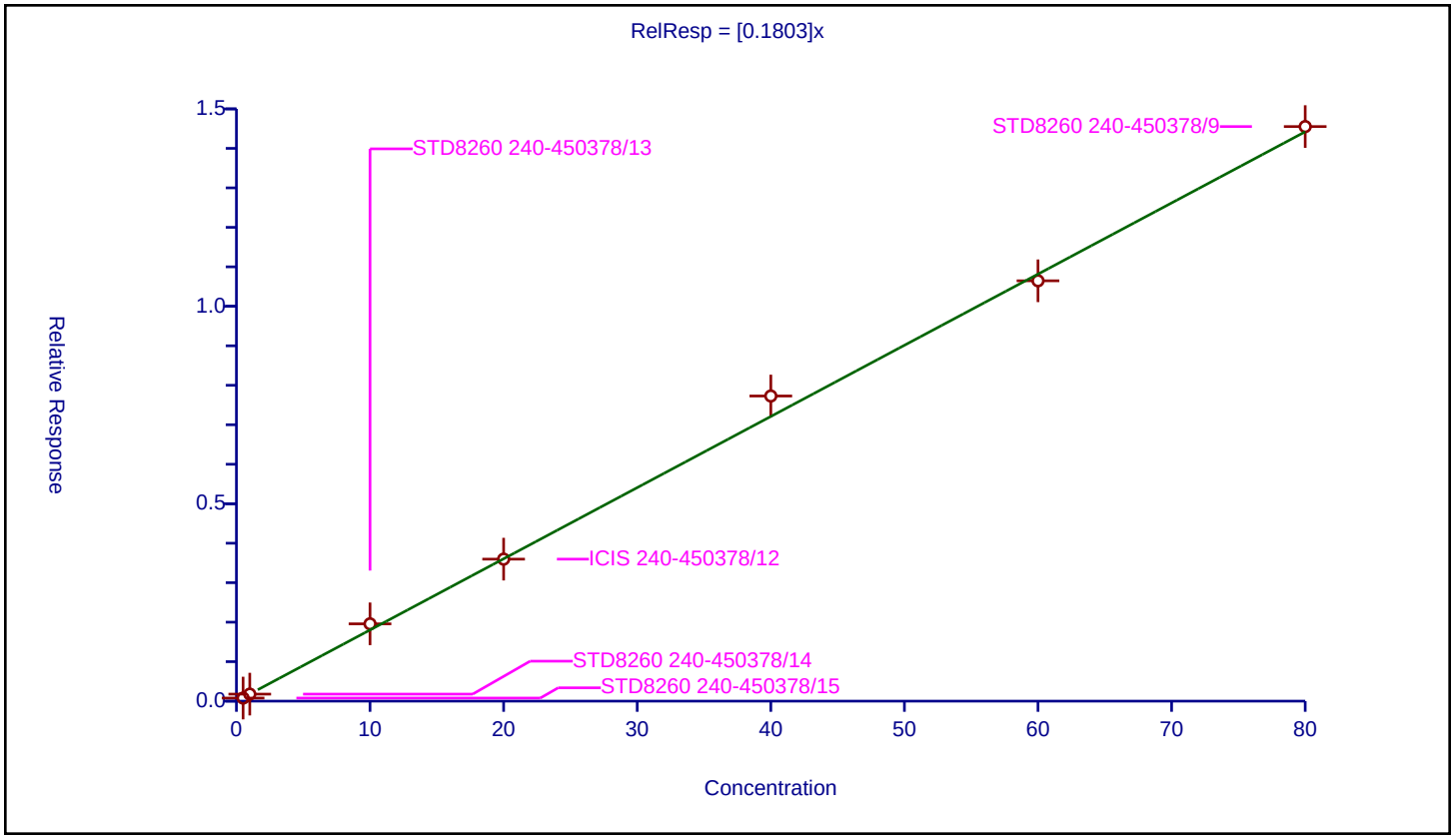
Curve Coefficients

Intercept:	0
Slope:	0.1803

Error Coefficients

Standard Error:	182000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.078039	20.0	385450.0	0.156077	Y
2	STD8260 240-450378/14	1.0	0.177562	20.0	380148.0	0.177562	Y
3	STD8260 240-450378/13	10.0	1.957869	20.0	410385.0	0.195787	Y
4	ICIS 240-450378/12	20.0	3.59675	20.0	412806.0	0.179838	Y
5	STD8260 240-450378/11	40.0	7.728176	20.0	434281.0	0.193204	Y
6	STD8260 240-450378/10	60.0	10.646315	20.0	445572.0	0.177439	Y
7	STD8260 240-450378/9	80.0	14.551754	20.0	451694.0	0.181897	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

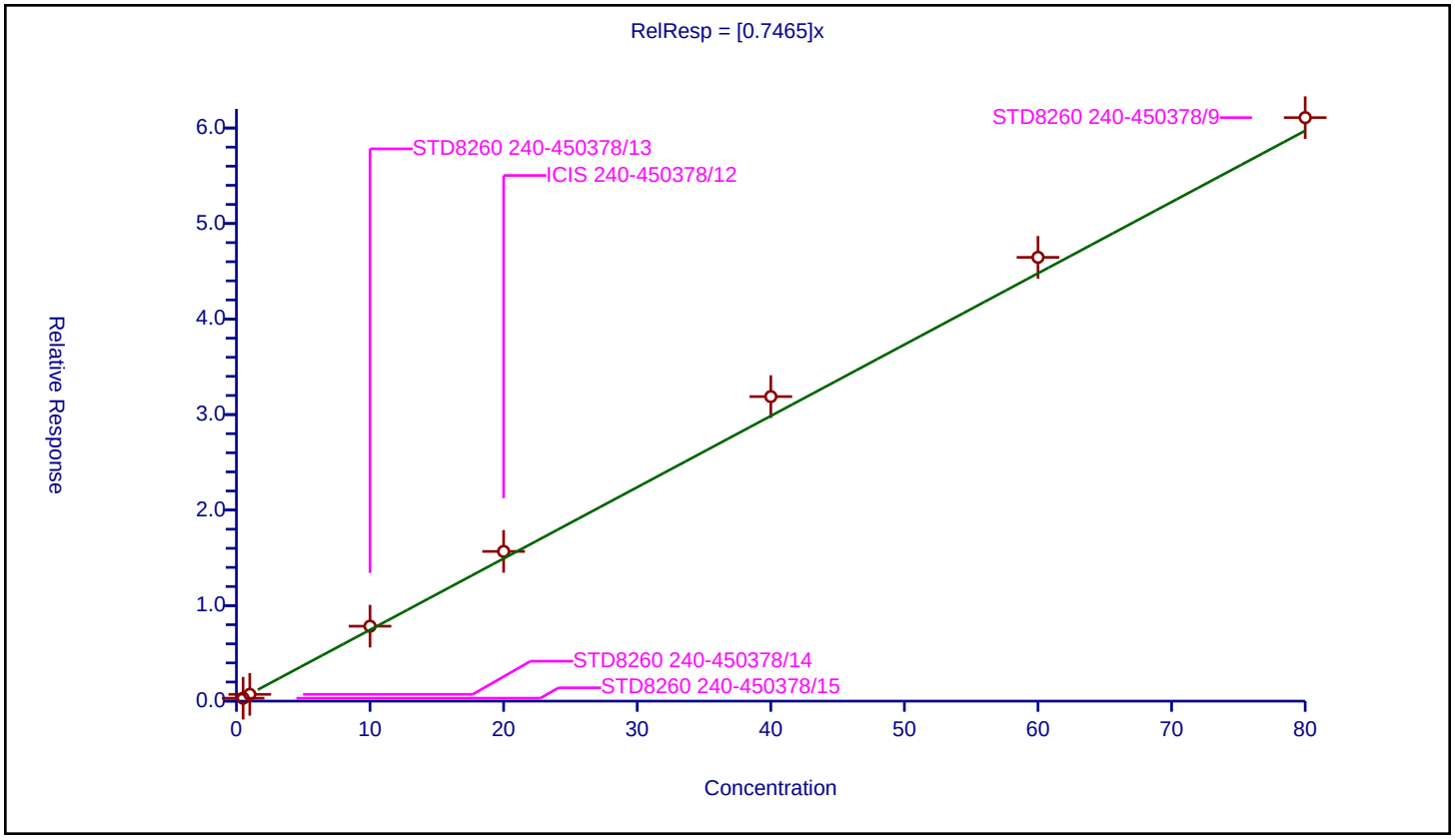
Curve Coefficients

Intercept:	0
Slope:	0.7465

Error Coefficients

Standard Error:	773000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.306603	20.0	385450.0	0.613205	Y
2	STD8260 240-450378/14	1.0	0.708829	20.0	380148.0	0.708829	Y
3	STD8260 240-450378/13	10.0	7.845803	20.0	410385.0	0.78458	Y
4	ICIS 240-450378/12	20.0	15.674191	20.0	412806.0	0.78371	Y
5	STD8260 240-450378/11	40.0	31.880603	20.0	434281.0	0.797015	Y
6	STD8260 240-450378/10	60.0	46.457587	20.0	445572.0	0.774293	Y
7	STD8260 240-450378/9	80.0	61.086798	20.0	451694.0	0.763585	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

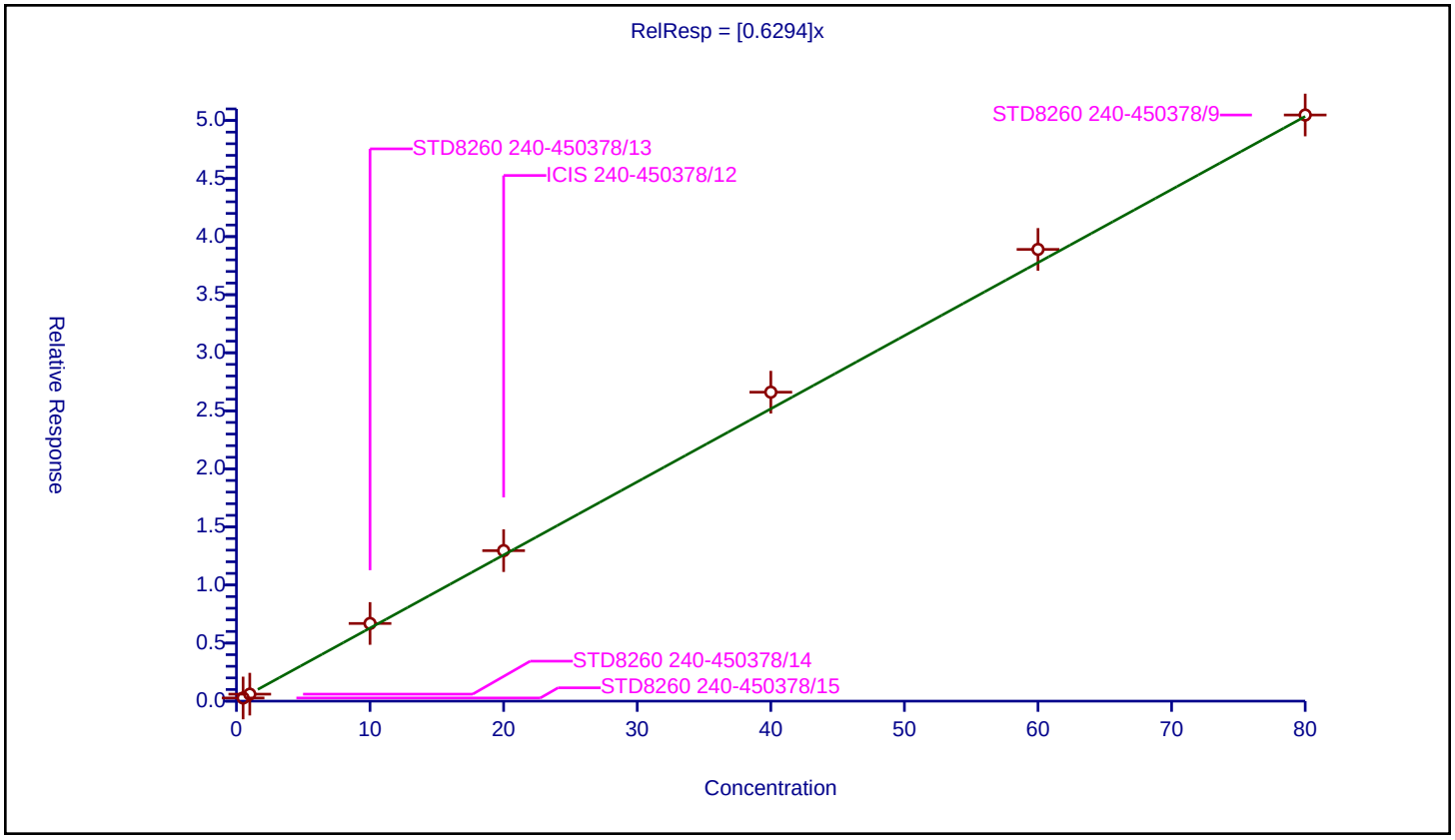
Curve Coefficients

Intercept:	0
Slope:	0.6294

Error Coefficients

Standard Error:	642000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.271475	20.0	385450.0	0.54295	Y
2	STD8260 240-450378/14	1.0	0.60145	20.0	380148.0	0.60145	Y
3	STD8260 240-450378/13	10.0	6.688938	20.0	410385.0	0.668894	Y
4	ICIS 240-450378/12	20.0	12.960325	20.0	412806.0	0.648016	Y
5	STD8260 240-450378/11	40.0	26.606045	20.0	434281.0	0.665151	Y
6	STD8260 240-450378/10	60.0	38.900066	20.0	445572.0	0.648334	Y
7	STD8260 240-450378/9	80.0	50.473728	20.0	451694.0	0.630922	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

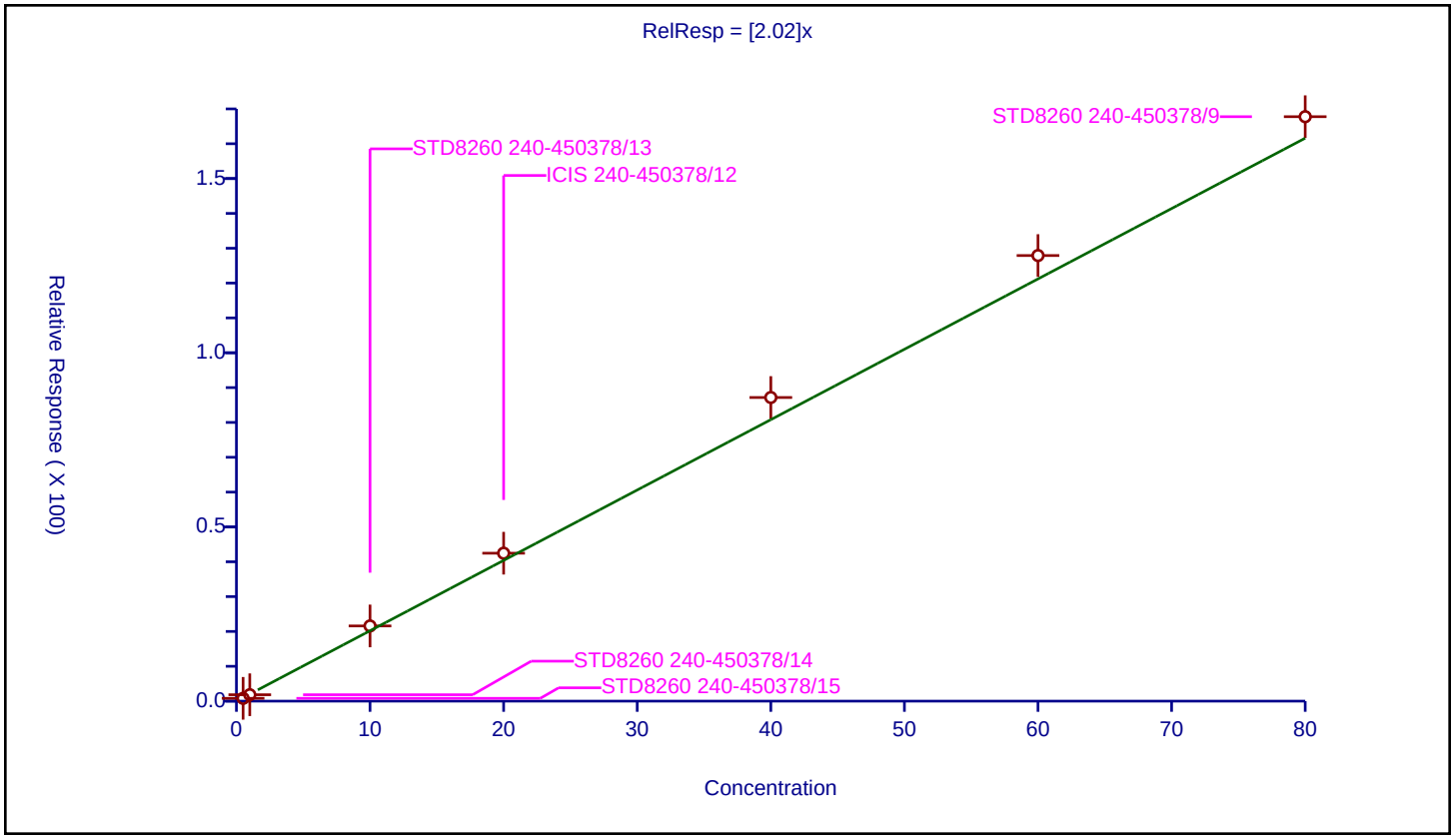
Curve Coefficients

Intercept:	0
Slope:	2.02

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.806486	20.0	385450.0	1.612972	Y
2	STD8260 240-450378/14	1.0	1.837127	20.0	380148.0	1.837127	Y
3	STD8260 240-450378/13	10.0	21.585146	20.0	410385.0	2.158515	Y
4	ICIS 240-450378/12	20.0	42.467551	20.0	412806.0	2.123378	Y
5	STD8260 240-450378/11	40.0	87.155966	20.0	434281.0	2.178899	Y
6	STD8260 240-450378/10	60.0	127.907903	20.0	445572.0	2.131798	Y
7	STD8260 240-450378/9	80.0	167.762556	20.0	451694.0	2.097032	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

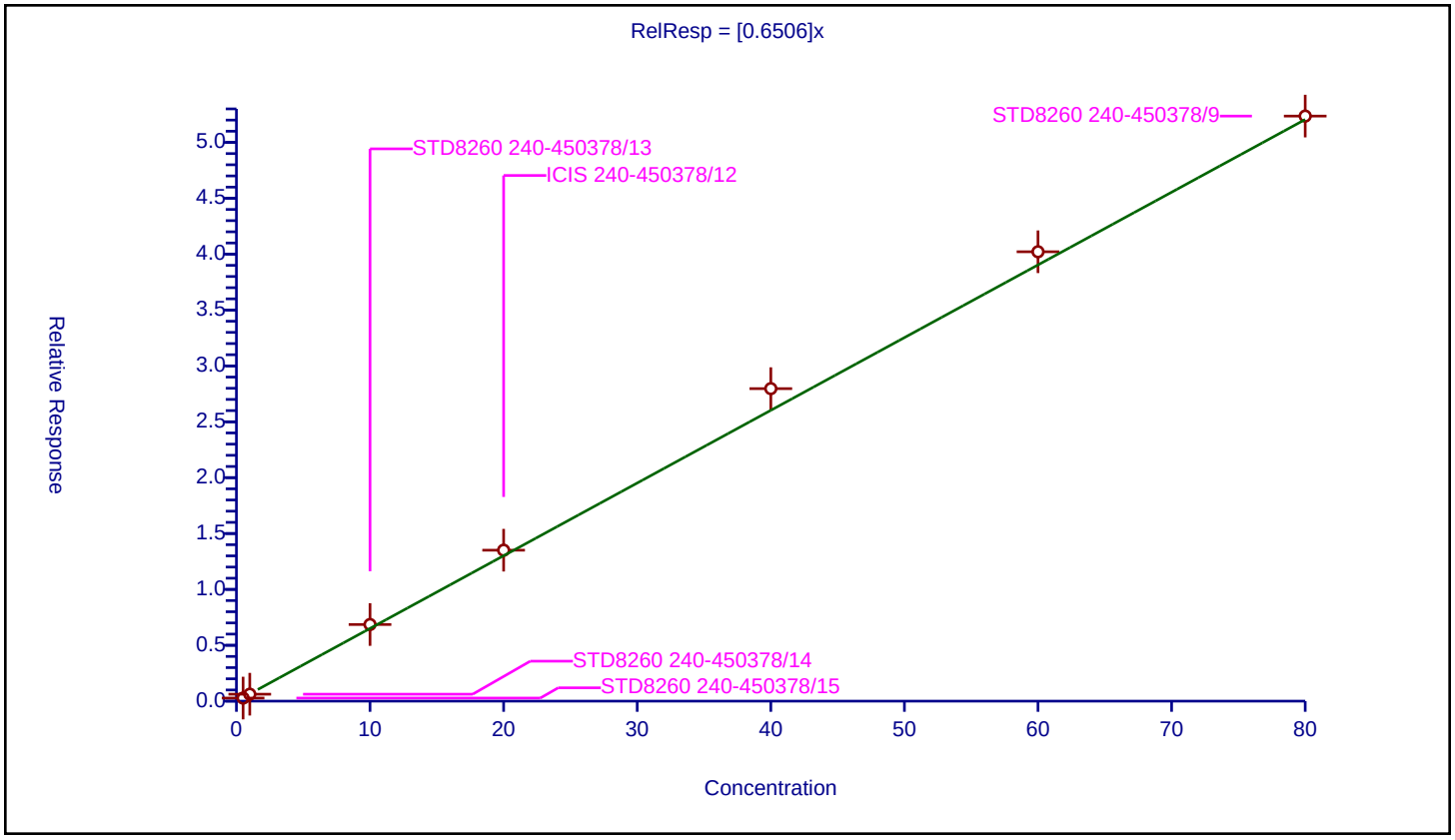
Curve Coefficients

Intercept:	0
Slope:	0.6506

Error Coefficients

Standard Error:	667000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.274484	20.0	385450.0	0.548969	Y
2	STD8260 240-450378/14	1.0	0.62039	20.0	380148.0	0.62039	Y
3	STD8260 240-450378/13	10.0	6.858243	20.0	410385.0	0.685824	Y
4	ICIS 240-450378/12	20.0	13.507653	20.0	412806.0	0.675383	Y
5	STD8260 240-450378/11	40.0	27.966777	20.0	434281.0	0.699169	Y
6	STD8260 240-450378/10	60.0	40.214017	20.0	445572.0	0.670234	Y
7	STD8260 240-450378/9	80.0	52.356905	20.0	451694.0	0.654461	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

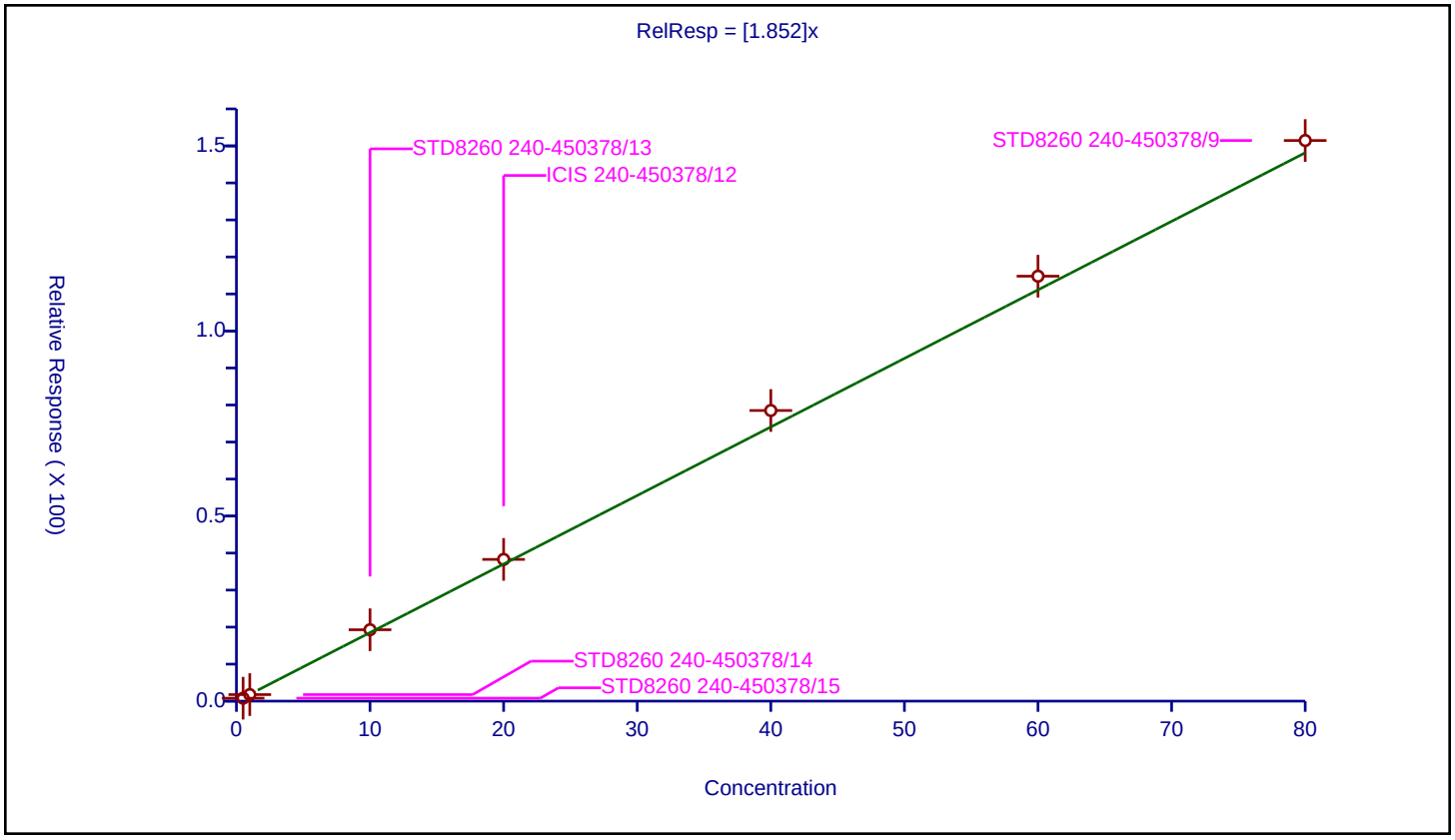
Curve Coefficients

Intercept:	0
Slope:	1.852

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.792943	20.0	385450.0	1.585887	Y
2	STD8260 240-450378/14	1.0	1.763997	20.0	380148.0	1.763997	Y
3	STD8260 240-450378/13	10.0	19.284623	20.0	410385.0	1.928462	Y
4	ICIS 240-450378/12	20.0	38.2883	20.0	412806.0	1.914415	Y
5	STD8260 240-450378/11	40.0	78.517458	20.0	434281.0	1.962936	Y
6	STD8260 240-450378/10	60.0	114.802995	20.0	445572.0	1.913383	Y
7	STD8260 240-450378/9	80.0	151.456074	20.0	451694.0	1.893201	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

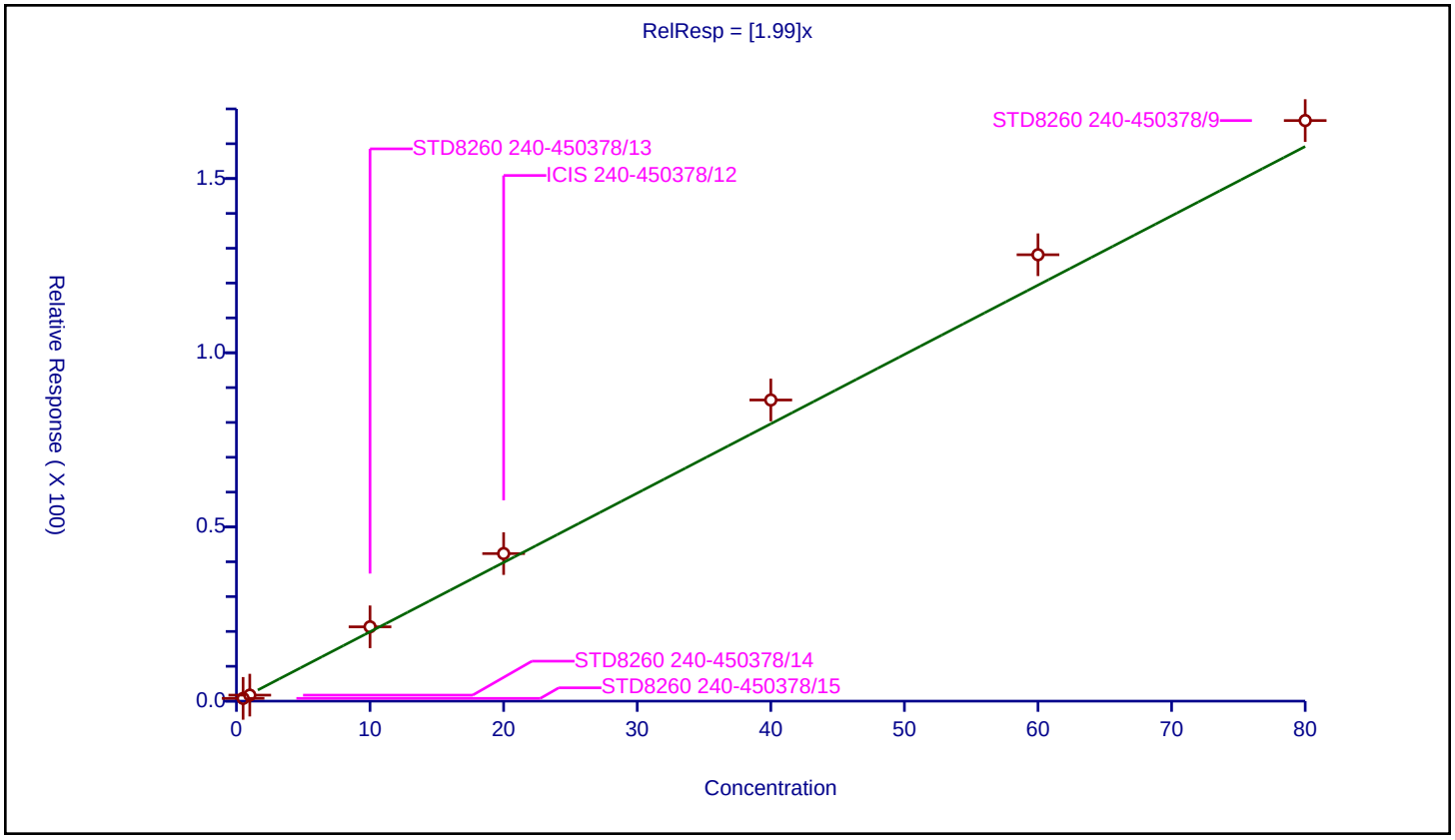
Curve Coefficients

Intercept:	0
Slope:	1.99

Error Coefficients

Standard Error:	2110000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.787495	20.0	385450.0	1.57499	Y
2	STD8260 240-450378/14	1.0	1.724644	20.0	380148.0	1.724644	Y
3	STD8260 240-450378/13	10.0	21.337037	20.0	410385.0	2.133704	Y
4	ICIS 240-450378/12	20.0	42.360479	20.0	412806.0	2.118024	Y
5	STD8260 240-450378/11	40.0	86.435741	20.0	434281.0	2.160894	Y
6	STD8260 240-450378/10	60.0	128.133411	20.0	445572.0	2.135557	Y
7	STD8260 240-450378/9	80.0	166.65176	20.0	451694.0	2.083147	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

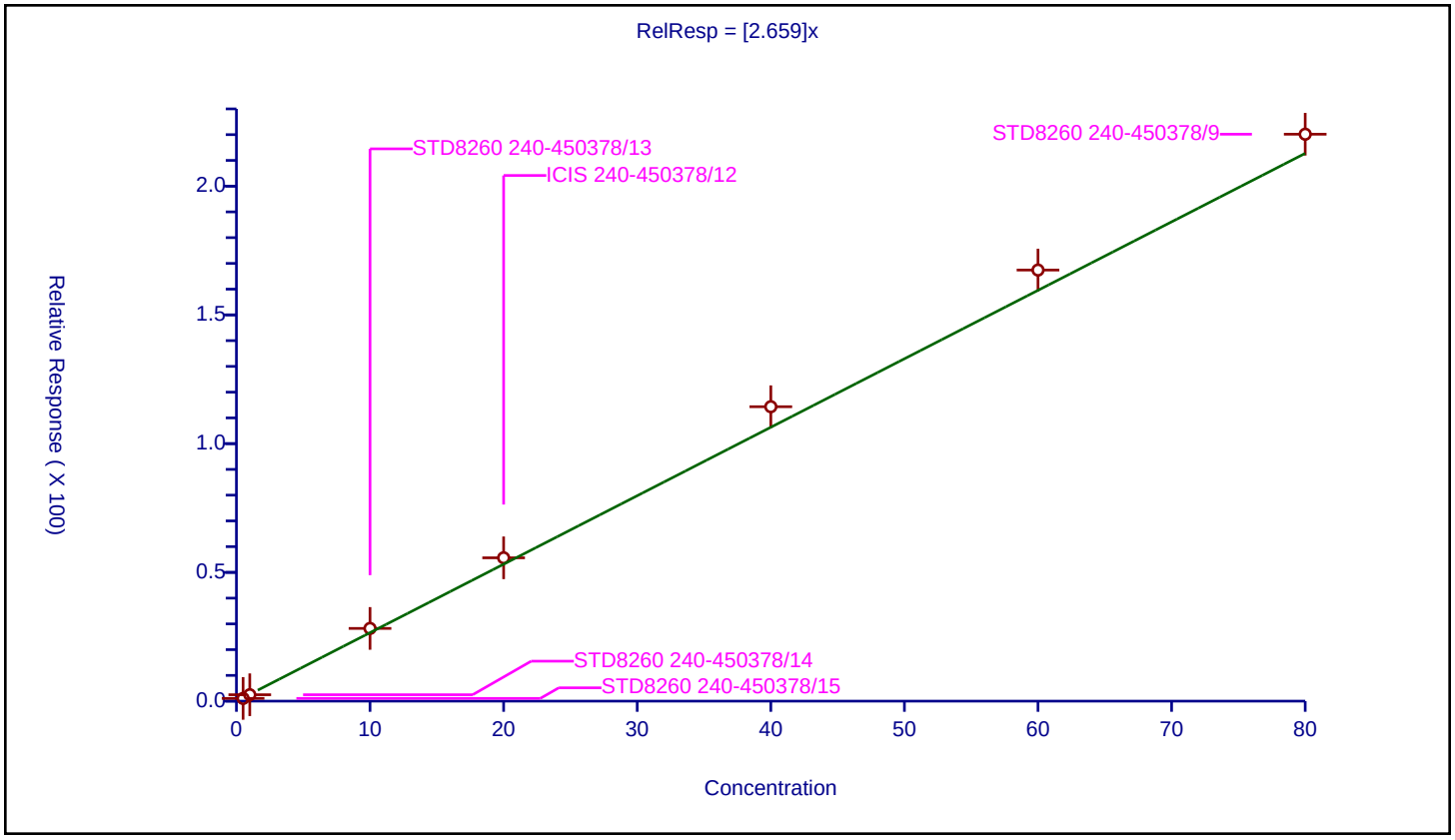
Curve Coefficients

Intercept:	0
Slope:	2.659

Error Coefficients

Standard Error:	2780000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	1.060112	20.0	385450.0	2.120223	Y
2	STD8260 240-450378/14	1.0	2.485663	20.0	380148.0	2.485663	Y
3	STD8260 240-450378/13	10.0	28.239336	20.0	410385.0	2.823934	Y
4	ICIS 240-450378/12	20.0	55.658832	20.0	412806.0	2.782942	Y
5	STD8260 240-450378/11	40.0	114.345735	20.0	434281.0	2.858643	Y
6	STD8260 240-450378/10	60.0	167.407871	20.0	445572.0	2.790131	Y
7	STD8260 240-450378/9	80.0	220.162898	20.0	451694.0	2.752036	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

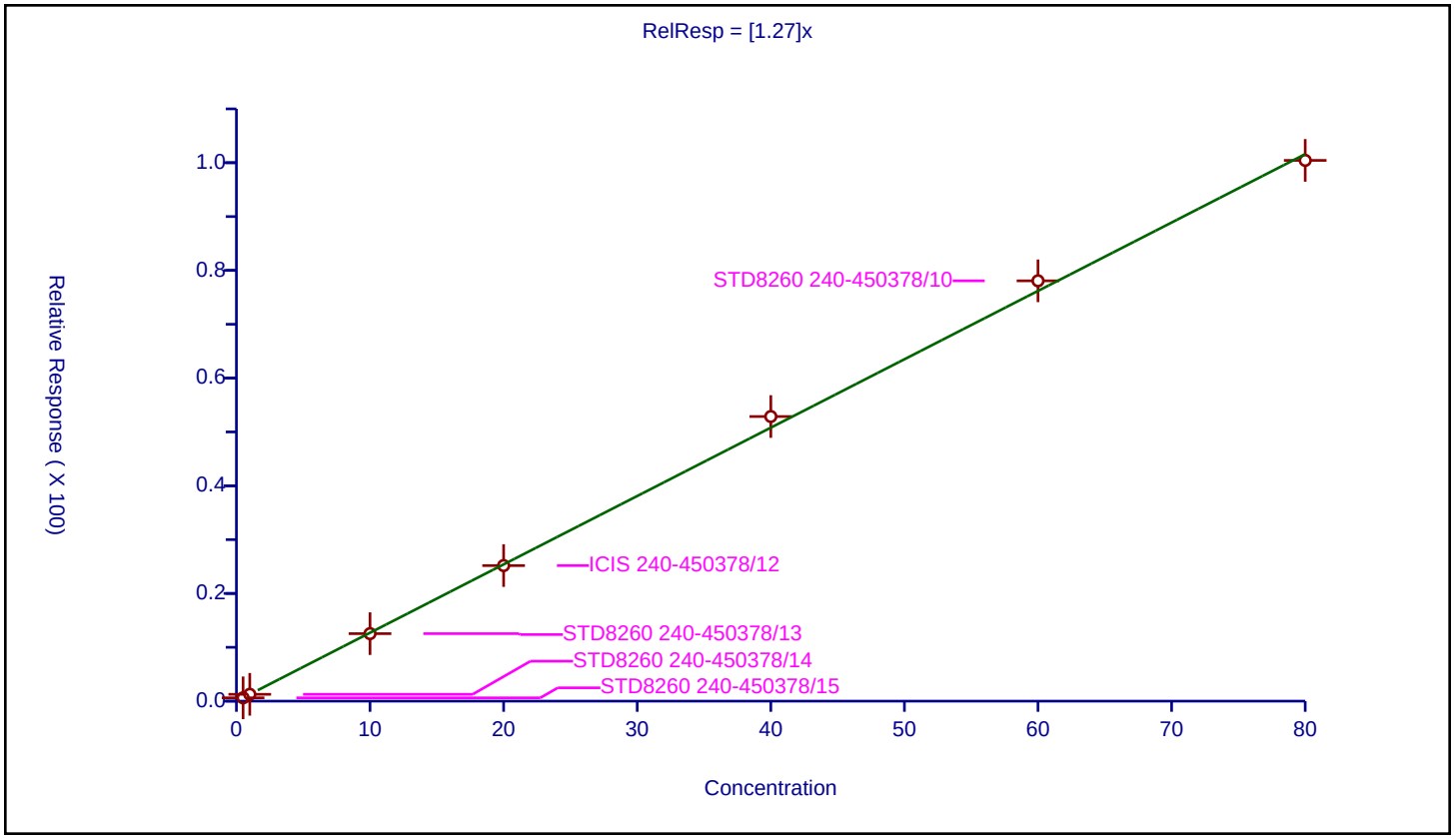
Curve Coefficients

Intercept:	0
Slope:	1.27

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	2.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.615592	20.0	385450.0	1.231184	Y
2	STD8260 240-450378/14	1.0	1.267243	20.0	380148.0	1.267243	Y
3	STD8260 240-450378/13	10.0	12.53925	20.0	410385.0	1.253925	Y
4	ICIS 240-450378/12	20.0	25.176088	20.0	412806.0	1.258804	Y
5	STD8260 240-450378/11	40.0	52.862594	20.0	434281.0	1.321565	Y
6	STD8260 240-450378/10	60.0	78.069268	20.0	445572.0	1.301154	Y
7	STD8260 240-450378/9	80.0	100.431708	20.0	451694.0	1.255396	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

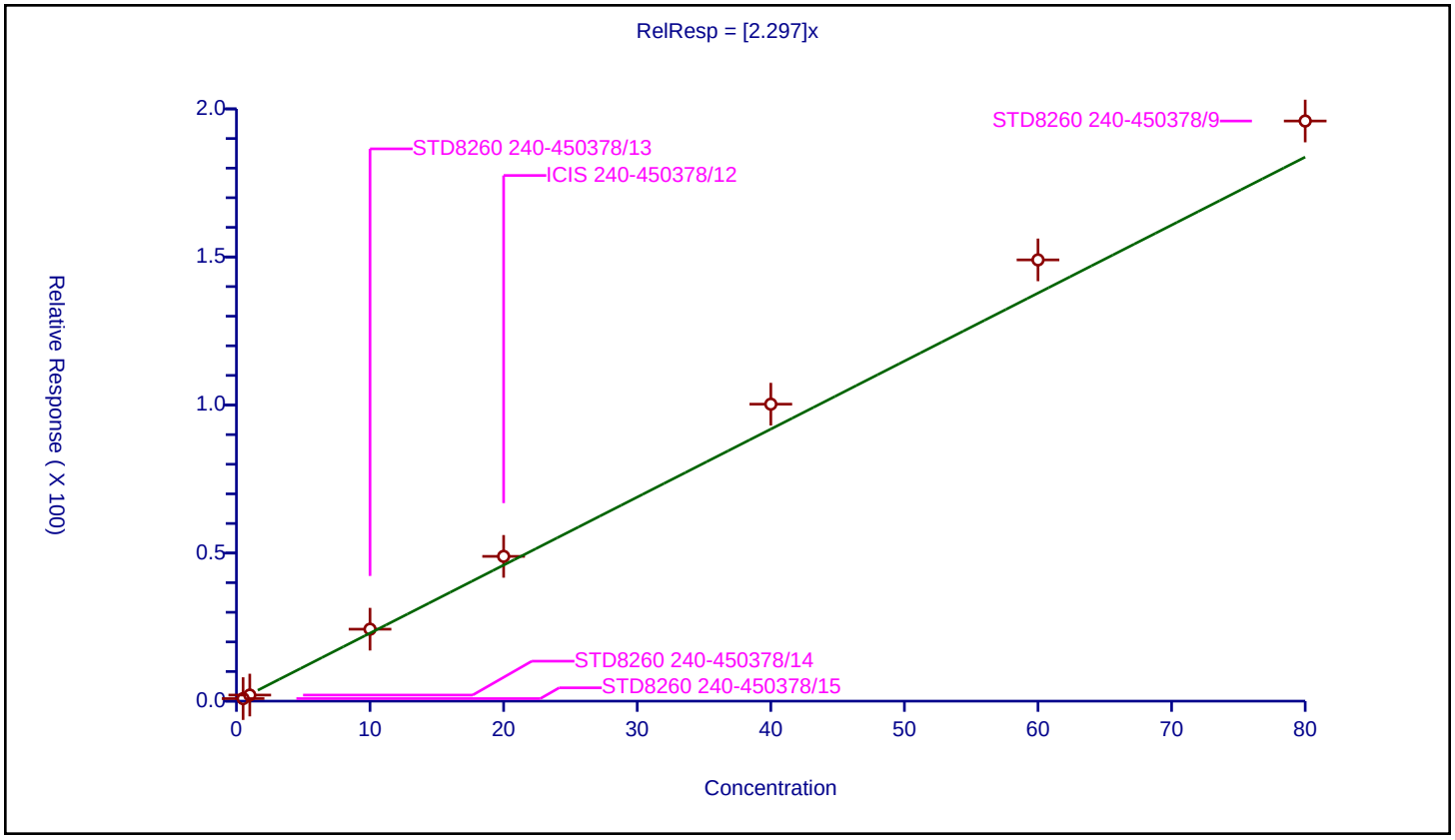
Curve Coefficients

Intercept:	0
Slope:	2.297

Error Coefficients

Standard Error:	2470000
Relative Standard Error:	13.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.855104	20.0	385450.0	1.710209	Y
2	STD8260 240-450378/14	1.0	2.052201	20.0	380148.0	2.052201	Y
3	STD8260 240-450378/13	10.0	24.300888	20.0	410385.0	2.430089	Y
4	ICIS 240-450378/12	20.0	48.889309	20.0	412806.0	2.444465	Y
5	STD8260 240-450378/11	40.0	100.286681	20.0	434281.0	2.507167	Y
6	STD8260 240-450378/10	60.0	149.008421	20.0	445572.0	2.483474	Y
7	STD8260 240-450378/9	80.0	195.910462	20.0	451694.0	2.448881	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

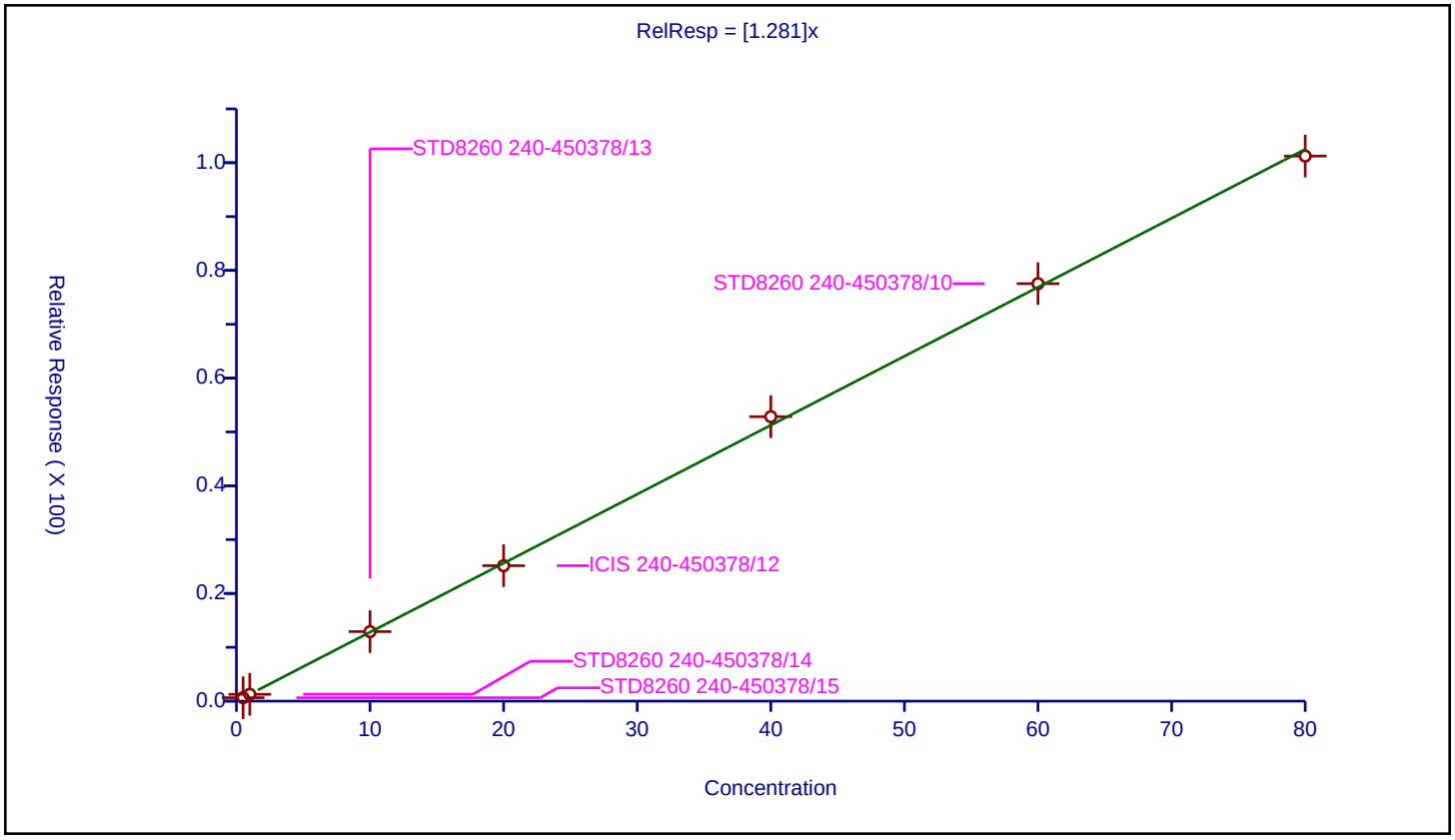
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	1.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.63614	20.0	385450.0	1.272279	Y
2	STD8260 240-450378/14	1.0	1.268822	20.0	380148.0	1.268822	Y
3	STD8260 240-450378/13	10.0	12.913435	20.0	410385.0	1.291343	Y
4	ICIS 240-450378/12	20.0	25.154673	20.0	412806.0	1.257734	Y
5	STD8260 240-450378/11	40.0	52.837172	20.0	434281.0	1.320929	Y
6	STD8260 240-450378/10	60.0	77.543921	20.0	445572.0	1.292399	Y
7	STD8260 240-450378/9	80.0	101.236722	20.0	451694.0	1.265459	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

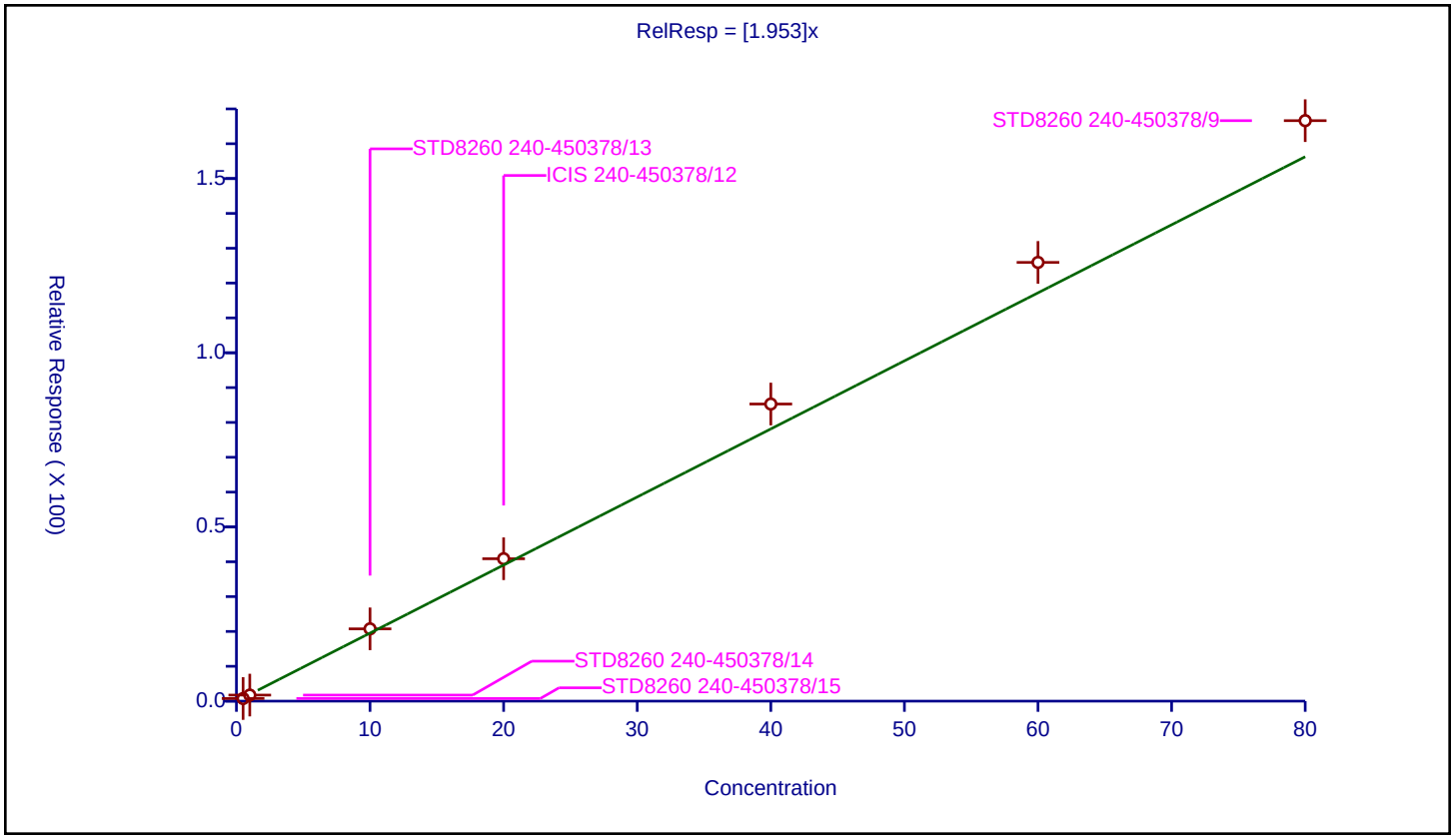
Curve Coefficients

Intercept:	0
Slope:	1.953

Error Coefficients

Standard Error:	2100000
Relative Standard Error:	12.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.749306	20.0	385450.0	1.498612	Y
2	STD8260 240-450378/14	1.0	1.742216	20.0	380148.0	1.742216	Y
3	STD8260 240-450378/13	10.0	20.752172	20.0	410385.0	2.075217	Y
4	ICIS 240-450378/12	20.0	40.870966	20.0	412806.0	2.043548	Y
5	STD8260 240-450378/11	40.0	85.287682	20.0	434281.0	2.132192	Y
6	STD8260 240-450378/10	60.0	125.936639	20.0	445572.0	2.098944	Y
7	STD8260 240-450378/9	80.0	166.622669	20.0	451694.0	2.082783	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

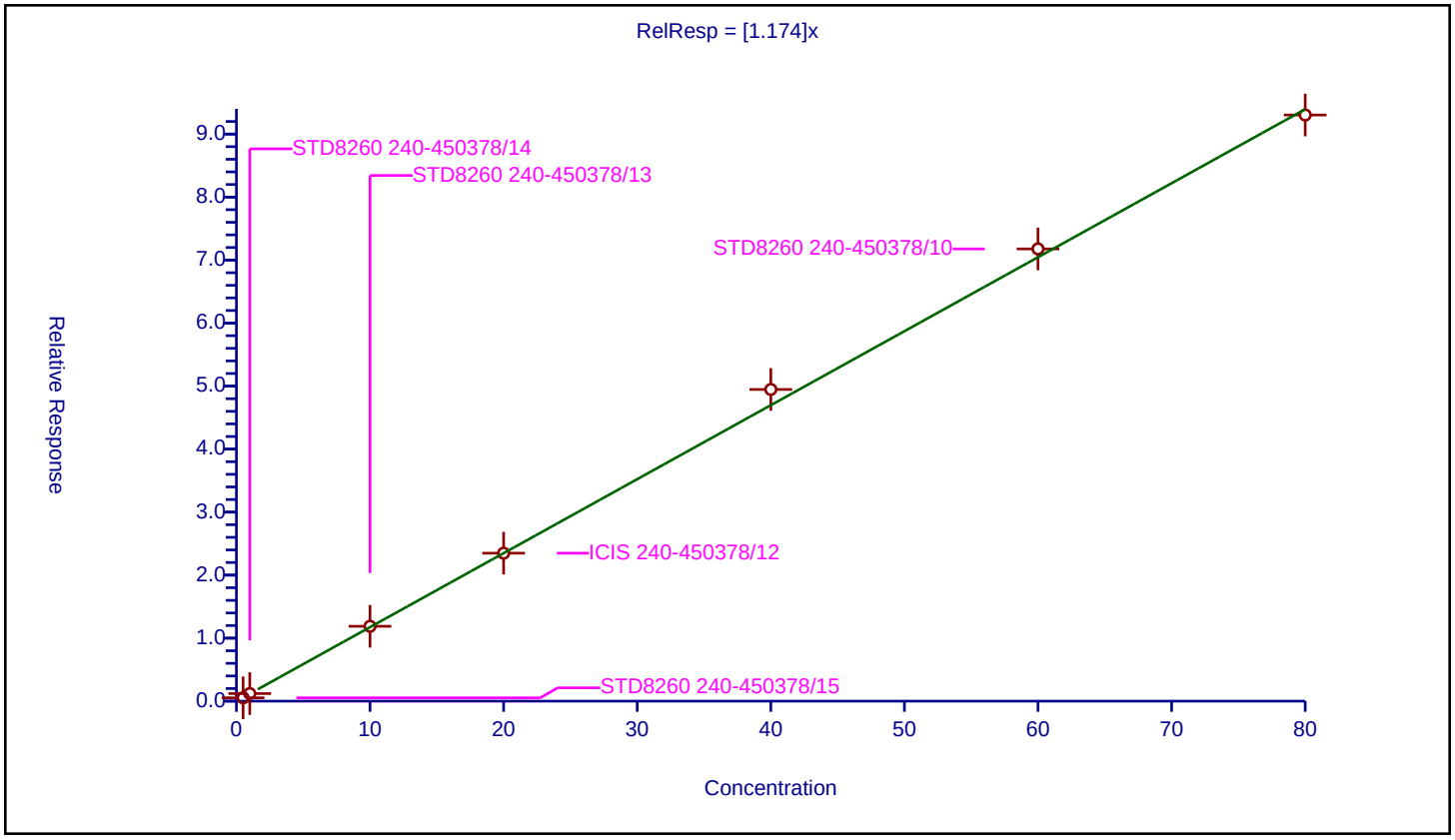
Curve Coefficients

Intercept:	0
Slope:	1.174

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.529822	20.0	385450.0	1.059645	Y
2	STD8260 240-450378/14	1.0	1.202006	20.0	380148.0	1.202006	Y
3	STD8260 240-450378/13	10.0	11.881087	20.0	410385.0	1.188109	Y
4	ICIS 240-450378/12	20.0	23.485511	20.0	412806.0	1.174276	Y
5	STD8260 240-450378/11	40.0	49.471379	20.0	434281.0	1.236784	Y
6	STD8260 240-450378/10	60.0	71.778388	20.0	445572.0	1.196306	Y
7	STD8260 240-450378/9	80.0	93.029795	20.0	451694.0	1.162872	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

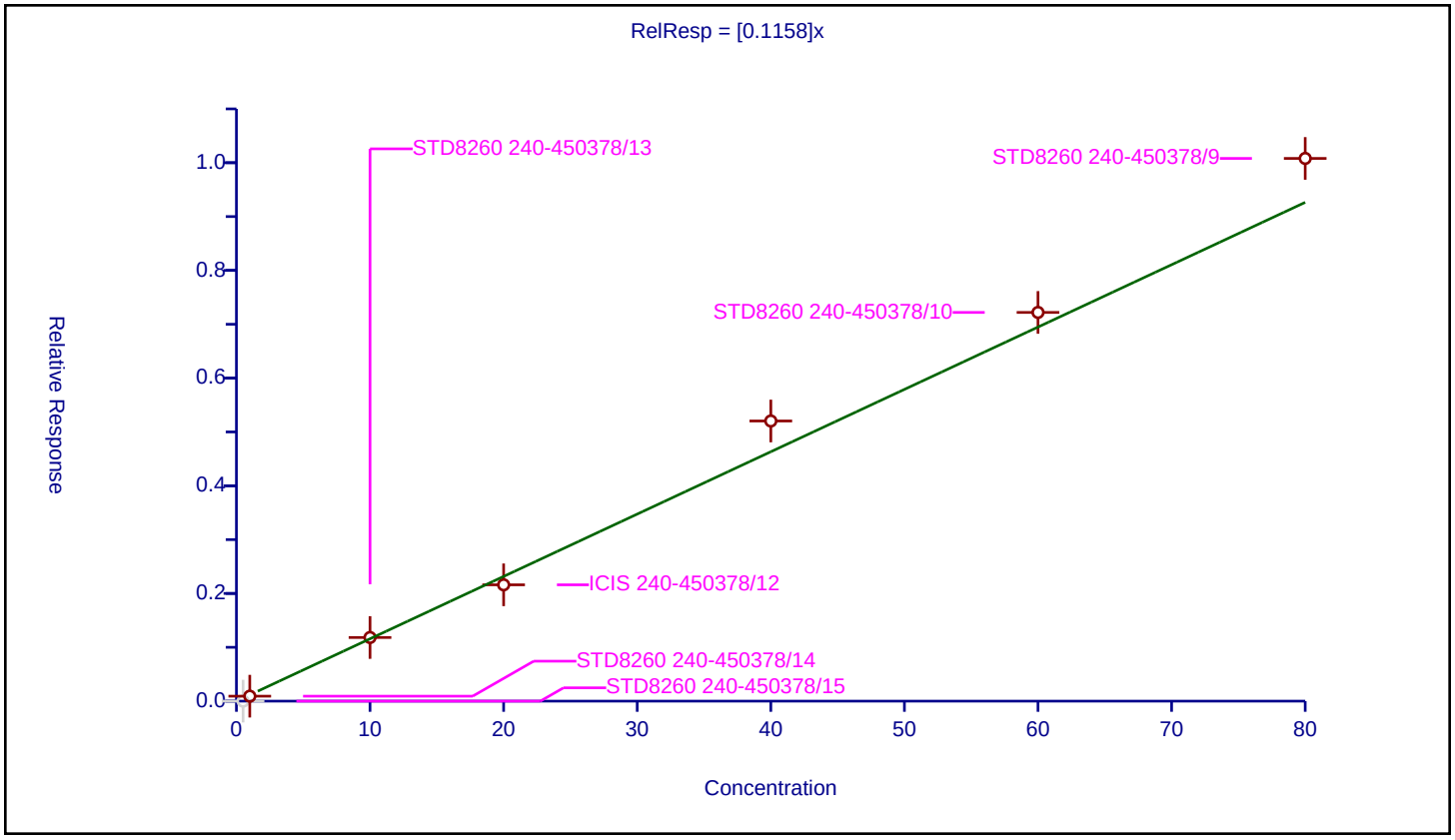
Curve Coefficients

Intercept:	0
Slope:	0.1158

Error Coefficients

Standard Error:	136000
Relative Standard Error:	11.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	385450.0	0.0	N
2	STD8260 240-450378/14	1.0	0.092175	20.0	380148.0	0.092175	Y
3	STD8260 240-450378/13	10.0	1.181866	20.0	410385.0	0.118187	Y
4	ICIS 240-450378/12	20.0	2.160482	20.0	412806.0	0.108024	Y
5	STD8260 240-450378/11	40.0	5.203451	20.0	434281.0	0.130086	Y
6	STD8260 240-450378/10	60.0	7.219709	20.0	445572.0	0.120328	Y
7	STD8260 240-450378/9	80.0	10.079877	20.0	451694.0	0.125998	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

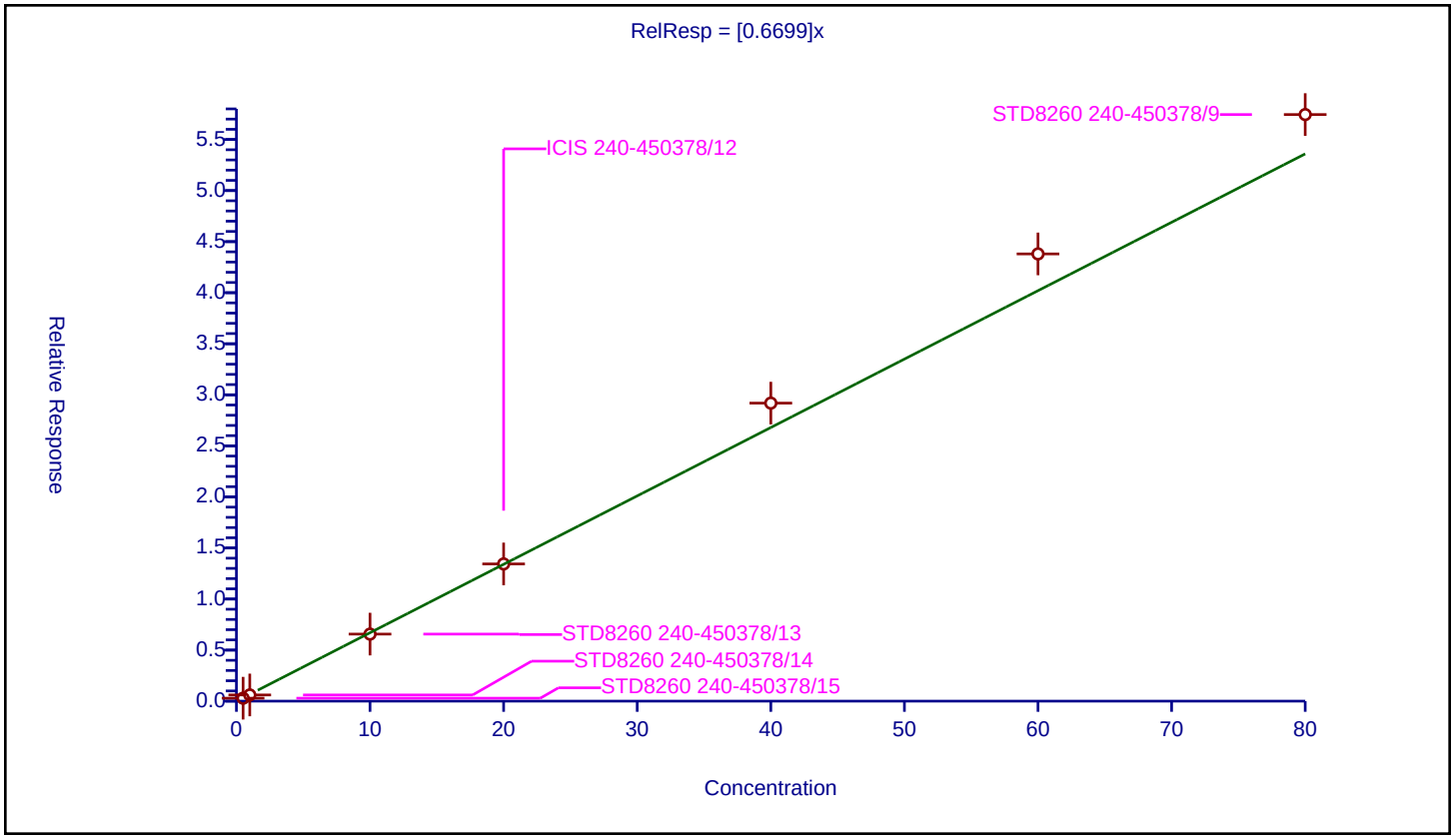
Curve Coefficients

Intercept:	0
Slope:	0.6699

Error Coefficients

Standard Error:	722000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.288338	20.0	385450.0	0.576677	Y
2	STD8260 240-450378/14	1.0	0.606658	20.0	380148.0	0.606658	Y
3	STD8260 240-450378/13	10.0	6.566029	20.0	410385.0	0.656603	Y
4	ICIS 240-450378/12	20.0	13.437935	20.0	412806.0	0.671897	Y
5	STD8260 240-450378/11	40.0	29.185435	20.0	434281.0	0.729636	Y
6	STD8260 240-450378/10	60.0	43.797366	20.0	445572.0	0.729956	Y
7	STD8260 240-450378/9	80.0	57.445527	20.0	451694.0	0.718069	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

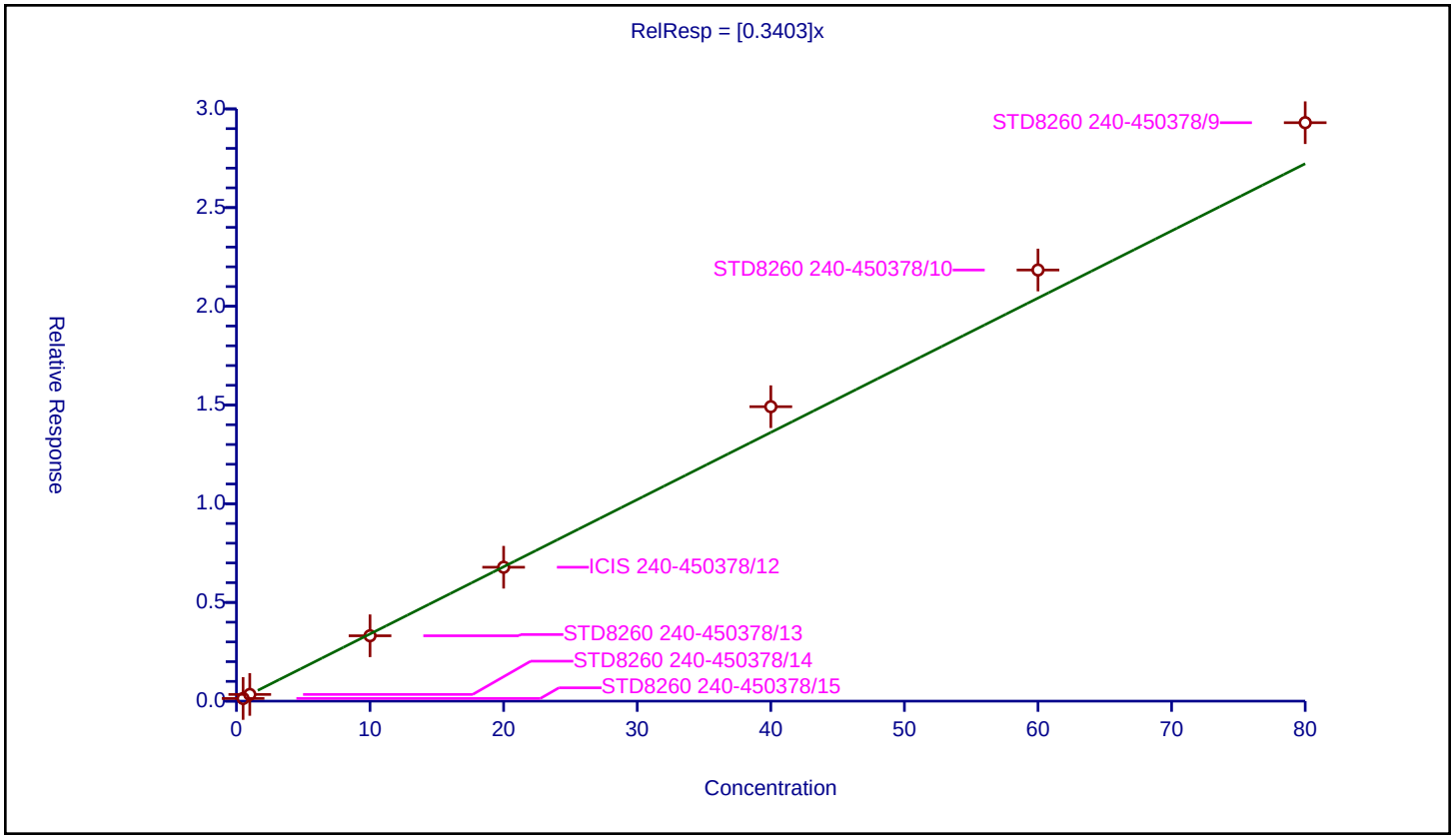
Curve Coefficients

Intercept:	0
Slope:	0.3403

Error Coefficients

Standard Error:	366000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.1347	20.0	385450.0	0.269399	Y
2	STD8260 240-450378/14	1.0	0.339184	20.0	380148.0	0.339184	Y
3	STD8260 240-450378/13	10.0	3.312109	20.0	410385.0	0.331211	Y
4	ICIS 240-450378/12	20.0	6.78275	20.0	412806.0	0.339138	Y
5	STD8260 240-450378/11	40.0	14.914997	20.0	434281.0	0.372875	Y
6	STD8260 240-450378/10	60.0	21.83885	20.0	445572.0	0.363981	Y
7	STD8260 240-450378/9	80.0	29.301164	20.0	451694.0	0.366265	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

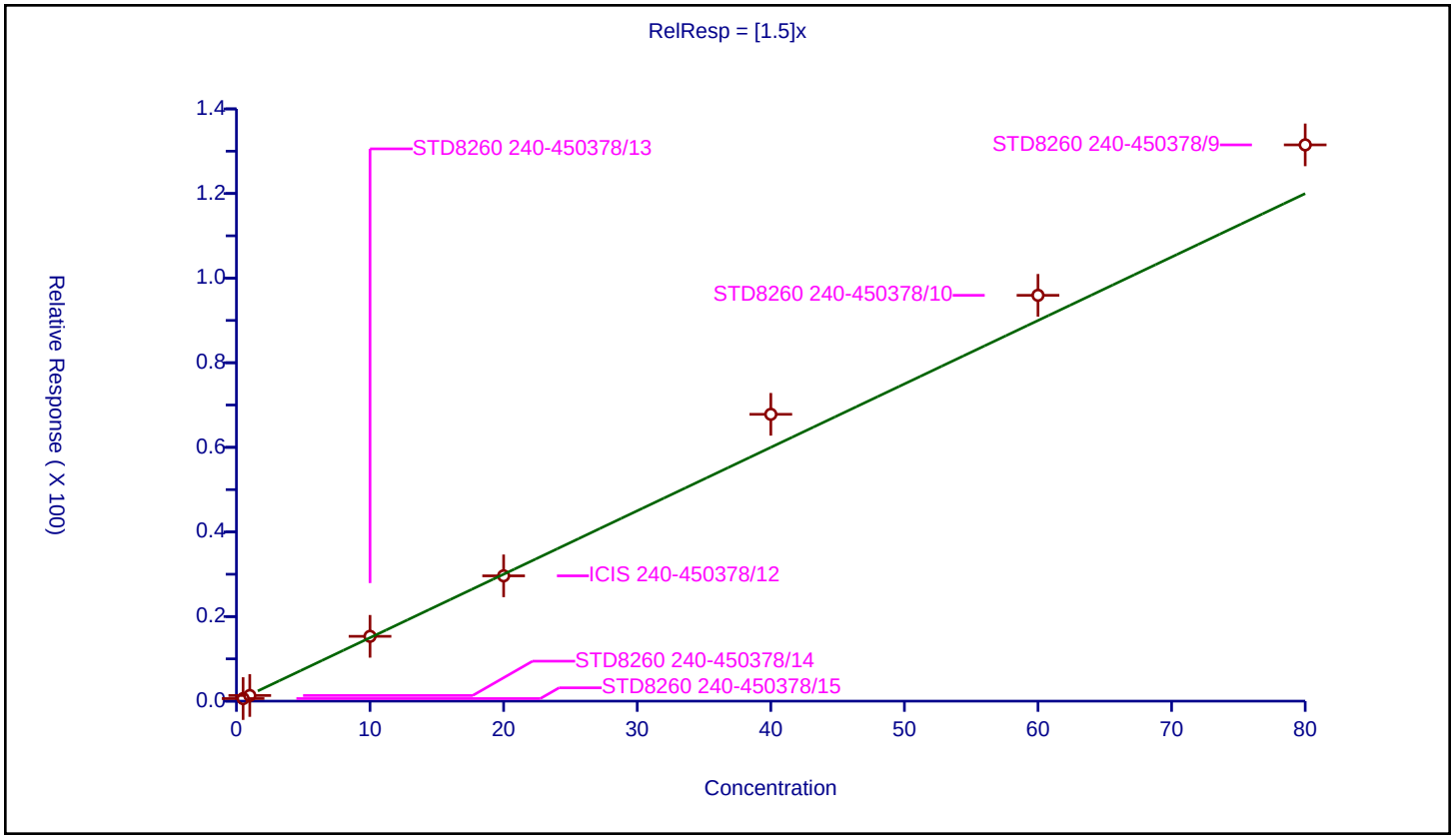
Curve Coefficients

Intercept:	0
Slope:	1.5

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	11.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.606304	20.0	385450.0	1.212609	Y
2	STD8260 240-450378/14	1.0	1.334375	20.0	380148.0	1.334375	Y
3	STD8260 240-450378/13	10.0	15.323075	20.0	410385.0	1.532307	Y
4	ICIS 240-450378/12	20.0	29.620887	20.0	412806.0	1.481044	Y
5	STD8260 240-450378/11	40.0	67.804394	20.0	434281.0	1.69511	Y
6	STD8260 240-450378/10	60.0	95.93417	20.0	445572.0	1.598903	Y
7	STD8260 240-450378/9	80.0	131.491674	20.0	451694.0	1.643646	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

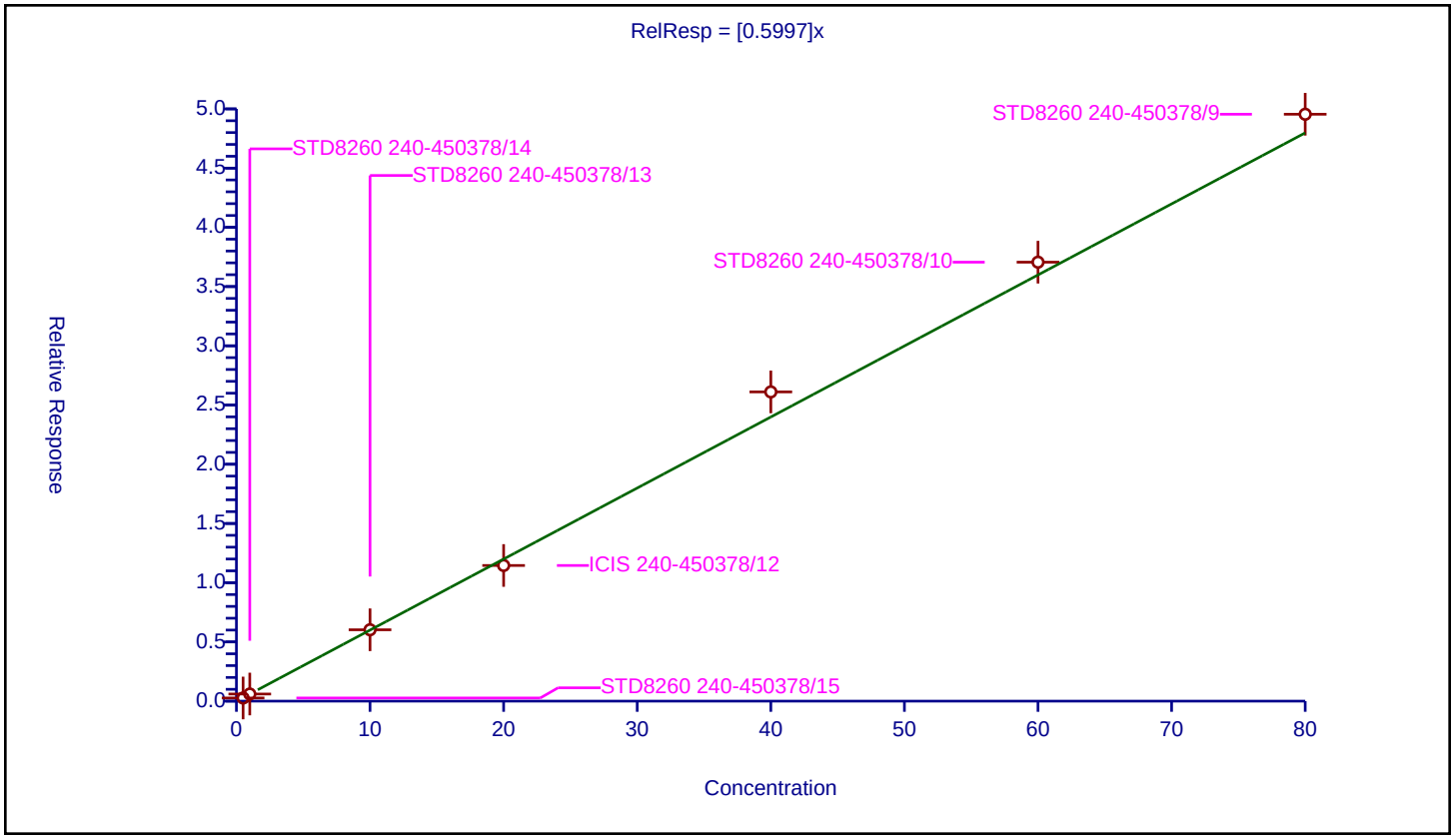
Curve Coefficients

Intercept:	0
Slope:	0.5997

Error Coefficients

Standard Error:	623000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.265612	20.0	385450.0	0.531223	Y
2	STD8260 240-450378/14	1.0	0.601766	20.0	380148.0	0.601766	Y
3	STD8260 240-450378/13	10.0	6.025951	20.0	410385.0	0.602595	Y
4	ICIS 240-450378/12	20.0	11.453273	20.0	412806.0	0.572664	Y
5	STD8260 240-450378/11	40.0	26.10729	20.0	434281.0	0.652682	Y
6	STD8260 240-450378/10	60.0	37.0596	20.0	445572.0	0.61766	Y
7	STD8260 240-450378/9	80.0	49.547083	20.0	451694.0	0.619339	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0260 0.0224	0.0265	0.0246	0.0232	0.0222	Ave		0.0241				7.6		20.0			
Diisopropyl ether	0.1490 0.1993	0.1554	0.1862	0.1892	0.1889	Ave		0.1780				11.6		20.0			
2-Chloro-1,3-butadiene	0.2405 0.3168	0.2679	0.3121	0.3084	0.2984	Ave		0.2907				10.4		20.0			
Ethyl-t-butyl ether (ETBE)	0.4301 0.5902	0.4583	0.5407	0.5581	0.5559	Ave		0.5222				12.1		20.0			
Ethyl acetate	0.1072 0.1611	0.1236	0.1437	0.1500	0.1519	Ave		0.1396				14.5		20.0			
Propionitrile	0.0225 0.0284	0.0267	0.0286	0.0288	0.0278	Ave		0.0271				8.8		20.0			
Methacrylonitrile	0.0866 0.1124	0.0889	0.1062	0.1066	0.1055	Ave		0.1010				10.5		20.0			
Isooctane	0.4089 0.6831	0.4887	0.6101	0.6519	0.6238	Ave		0.5777				18.4		20.0			
Tert-amyl-methyl ether (TAME)	0.4509 0.5900	0.4262	0.5222	0.5457	0.5544	Ave		0.5149				12.3		20.0			
n-Butanol	+++++ 0.0048	0.0022	0.0037	0.0040	0.0043	Lin1	-0.083	0.0046				14.6			0.9950		0.9900
Ethyl acrylate	0.1416 0.2306	0.1557	0.1891	0.2034	0.2108	Ave		0.1885				18.0		20.0			
Methyl methacrylate	0.0993 0.1473	0.1016	0.1253	0.1336	0.1370	Ave		0.1240				15.8		20.0			
2-Nitropropane	0.0294 0.0489	0.0320	0.0398	0.0423	0.0453	Ave		0.0396				19.1		20.0			
n-Butyl acetate	0.1765 0.2279	0.1621	0.1977	0.2074	0.2149	Ave		0.1978				12.4		20.0			
1-Chlorohexane	0.3742 0.4594	0.3719	0.4186	0.4403	0.4340	Ave		0.4164				8.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	+++++ 0.0135	0.0080	0.0111	0.0118	0.0127	Ave		0.0114				18.6		20.0			
Pentachloroethane	0.0999 0.1408	0.0697	0.0710	0.0986	0.1164	Ave		0.0994				27.4	*	20.0			
1,2,3-Trimethylbenzene	1.6603 2.1922	1.6949	2.0277	2.0909	2.0909	Ave		1.9595				11.5		20.0			
Benzyl chloride	+++++ 0.2519	0.1562	0.1929	0.2145	0.2326	Ave		0.2096				17.6		20.0			
1,3,5-Trichlorobenzene	0.6940 0.9027	0.7767	0.8661	0.8680	0.8608	Ave		0.8280				9.4		20.0			
2-Methylnaphthalene	0.4414 0.7171	0.5265	0.5761	0.6401	0.6755	Ave		0.5961				17.1		20.0			
1-Methylnaphthalene	0.3719 0.6339	0.4611	0.5537	0.5969	0.6095	Ave		0.5378				18.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	5457 896718	11301	108754	215625	442777	5.00 800	10.0	100	200	400
Diisopropyl ether	FB	Ave	3133 798576	6625	82477	175721	376478	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	5057 1269422	11420	138254	286358	594715	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	9044 2364815	19533	239506	518262	1107852	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	4509 1290936	10536	127343	278537	605390	1.00 160	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	4727 1139003	11381	126888	267016	553096	5.00 800	10.0	100	200	400
Methacrylonitrile	FB	Ave	18208 4504926	37890	470374	989714	2101907	5.00 800	10.0	100	200	400
Isooctane	FB	Ave	8598 2737094	20830	270247	605373	1243289	0.500 80.0	1.00	10.0	20.0	40.0
Tert-amyl-methyl ether (TAME)	FB	Ave	9481 2364034	18165	231324	506726	1104984	0.500 80.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Lin1	+++++ 480104	2295	41072	93035	214983	+++++ 2000	25.0	250	500	1000
Ethyl acrylate	FB	Ave	2978 923794	6636	83776	188923	420020	0.500 80.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	4174 1180481	8663	110975	248049	546060	1.00 160	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	1238 391604	2732	35233	78628	180588	1.00 160	2.00	20.0	40.0	80.0
n-Butyl acetate	FB	Ave	3712 913202	6910	87580	192617	428298	0.500 80.0	1.00	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	6381 1455198	12907	151095	328318	678828	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Ave	+++++ 229096	1498	21341	46930	105799	+++++ 800	10.0	100	200	400

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Pentachloroethane	CBNZ d5	Ave	3408 892044	4835	51259	147100	364165	1.00 160	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	15560 3712698	31838	389395	828541	1747967	0.500 80.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	+++++ 426558	2934	37047	85003	194435	+++++ 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	6504 1528824	14589	166326	343938	719649	0.500 80.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	8273 2428941	19778	221271	507266	1129364	1.00 160	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	6971 2147009	17322	212650	473084	1019067	1.00 160	2.00	20.0	40.0	80.0

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1 Analy Batch No.: 450378

SDG No.: MSA FMC

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
n-Butanol	+++++	19.3						50				

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31032.D
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Sep-2020 16:30:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-019
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:34 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:22:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1001695	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	85	791870	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	423399	20.0	20.0	
25 Acetonitrile	41	3.580	3.581	-0.001	99	896718	800.0	741.7	
36 Isopropyl ether	87	4.399	4.399	0.000	91	798576	80.0	89.6	
37 2-Chloro-1,3-butadiene	53	4.434	4.446	-0.012	90	1269422	80.0	87.2	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	2364815	80.0	90.4	
43 Ethyl acetate	43	4.885	4.885	0.000	98	1290936	160.0	184.7	
42 Propionitrile	54	4.920	4.921	-0.001	99	1139003	800.0	838.4	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	4504926	800.0	890.3	
163 Isooctane	57	5.703	5.703	0.000	96	2737094	80.0	94.6	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	2364034	80.0	91.7	
57 n-Butanol	56	6.059	6.059	0.000	84	480104	2000.0	2109.8	
59 Ethyl acrylate	55	6.225	6.225	0.000	98	923794	80.0	97.8	
62 Methyl methacrylate	41	6.427	6.427	0.000	85	1180481	160.0	190.1	
66 2-Nitropropane	41	6.818	6.818	0.000	99	391604	160.0	197.3	
77 n-Butyl acetate	43	7.968	7.968	0.000	95	913202	80.0	92.2	
81 1-Chlorohexane	91	8.585	8.585	0.000	91	1455198	80.0	88.3	
91 Cyclohexanone	55	9.640	9.640	0.000	90	229096	800.0	947.4	
103 Pentachloroethane	167	10.482	10.482	0.000	97	892044	160.0	226.6	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	3712698	80.0	89.5	
110 Benzyl chloride	126	11.004	11.004	0.000	99	426558	80.0	96.1	
114 1,3,5-Trichlorobenzene	180	12.213	12.214	-0.001	98	1528824	80.0	87.2	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	2428941	160.0	192.5	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	2147009	160.0	188.6	

Reagents:

vmra9w_00359	Amount Added:	64.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

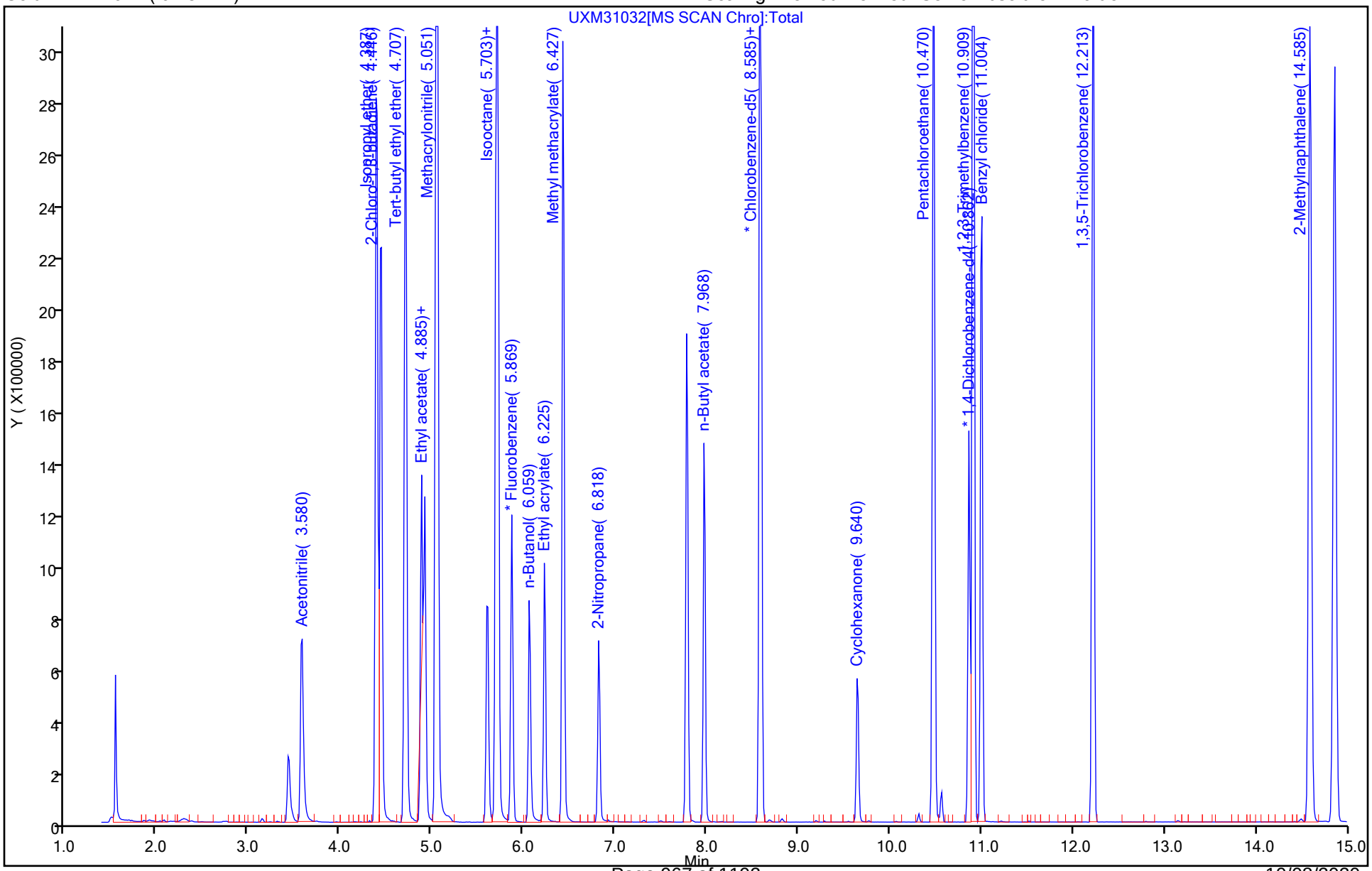
Report Date: 09-Sep-2020 08:31:35 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31032.D

Injection Date:	08-Sep-2020 16:30:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L6			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31033.D
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Sep-2020 16:55:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-020
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:36 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:22:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	996485	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	782124	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	417997	20.0	20.0	
25 Acetonitrile	41	3.581	3.581	0.000	100	442777	400.0	368.2	
36 Isopropyl ether	87	4.399	4.399	0.000	91	376478	40.0	42.4	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	90	594715	40.0	41.1	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	1107852	40.0	42.6	
43 Ethyl acetate	43	4.885	4.885	0.000	99	605390	80.0	87.0	
42 Propionitrile	54	4.921	4.921	0.000	99	553096	400.0	409.2	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	2101907	400.0	417.6	
163 Isooctane	57	5.703	5.703	0.000	96	1243289	40.0	43.2	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	1104984	40.0	43.1	
57 n-Butanol	56	6.059	6.059	0.000	85	214983	1000.0	959.6	
59 Ethyl acrylate	55	6.225	6.225	0.000	98	420020	40.0	44.7	
62 Methyl methacrylate	41	6.427	6.427	0.000	83	546060	80.0	88.4	
66 2-Nitropropane	41	6.818	6.818	0.000	99	180588	80.0	91.5	
77 n-Butyl acetate	43	7.968	7.968	0.000	94	428298	40.0	43.5	
81 1-Chlorohexane	91	8.585	8.585	0.000	93	678828	40.0	41.7	
91 Cyclohexanone	55	9.640	9.640	0.000	89	105799	400.0	443.2	
103 Pentachloroethane	167	10.482	10.482	0.000	96	364165	80.0	93.7	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	1747967	40.0	42.7	
110 Benzyl chloride	126	11.004	11.004	0.000	99	194435	40.0	44.4	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	719649	40.0	41.6	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	1129364	80.0	90.7	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	1019067	80.0	90.7	

Reagents:

vmra9w_00359	Amount Added:	32.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

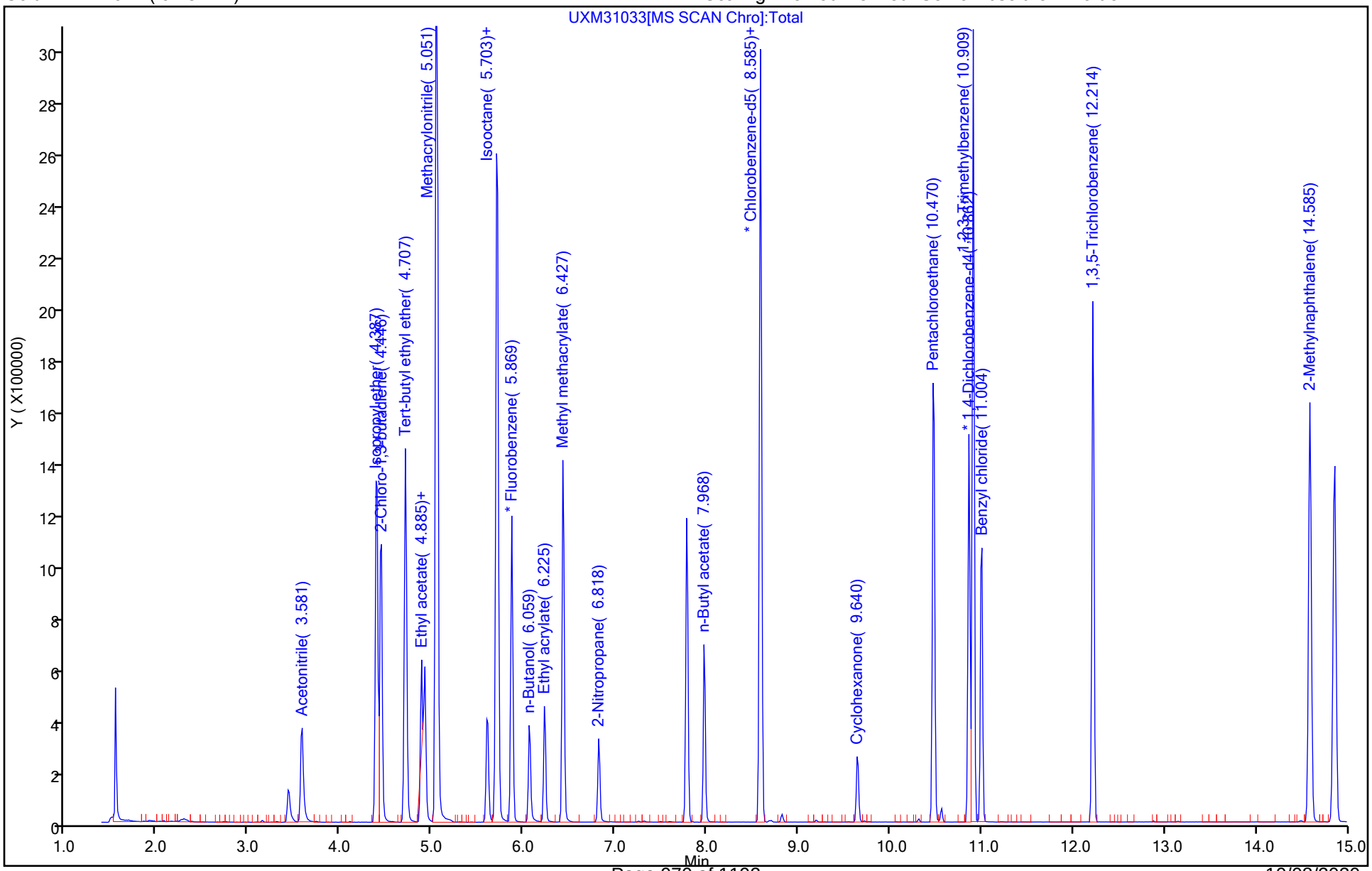
Report Date: 09-Sep-2020 08:31:37 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31033.D

Injection Date:	08-Sep-2020 16:55:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L5			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31034.D
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Sep-2020 17:19:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-021
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:38 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:22:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	928653	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	745740	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	396256	20.0	20.0	
25 Acetonitrile	41	3.580	3.581	-0.001	99	215625	200.0	192.4	
36 Isopropyl ether	87	4.399	4.399	0.000	91	175721	20.0	21.3	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	89	286358	20.0	21.2	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	518262	20.0	21.4	
43 Ethyl acetate	43	4.885	4.885	0.000	98	278537	40.0	43.0	
42 Propionitrile	54	4.920	4.921	-0.001	99	267016	200.0	212.0	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	989714	200.0	211.0	
163 Isooctane	57	5.703	5.703	0.000	96	605373	20.0	22.6	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	506726	20.0	21.2	
57 n-Butanol	56	6.059	6.059	0.000	85	93035	500.0	455.3	
59 Ethyl acrylate	55	6.225	6.225	0.000	99	188923	20.0	21.6	
62 Methyl methacrylate	41	6.427	6.427	0.000	84	248049	40.0	43.1	
66 2-Nitropropane	41	6.818	6.818	0.000	99	78628	40.0	42.7	
77 n-Butyl acetate	43	7.968	7.968	0.000	95	192617	20.0	21.0	
81 1-Chlorohexane	91	8.585	8.585	0.000	92	328318	20.0	21.1	
91 Cyclohexanone	55	9.640	9.640	0.000	89	46930	200.0	207.4	
103 Pentachloroethane	167	10.482	10.482	0.000	95	147100	40.0	39.7	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	828541	20.0	21.3	
110 Benzyl chloride	126	11.004	11.004	0.000	99	85003	20.0	20.5	
114 1,3,5-Trichlorobenzene	180	12.213	12.214	-0.001	98	343938	20.0	21.0	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	507266	40.0	43.0	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	473084	40.0	44.4	

Reagents:

vmra9w_00359	Amount Added:	16.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

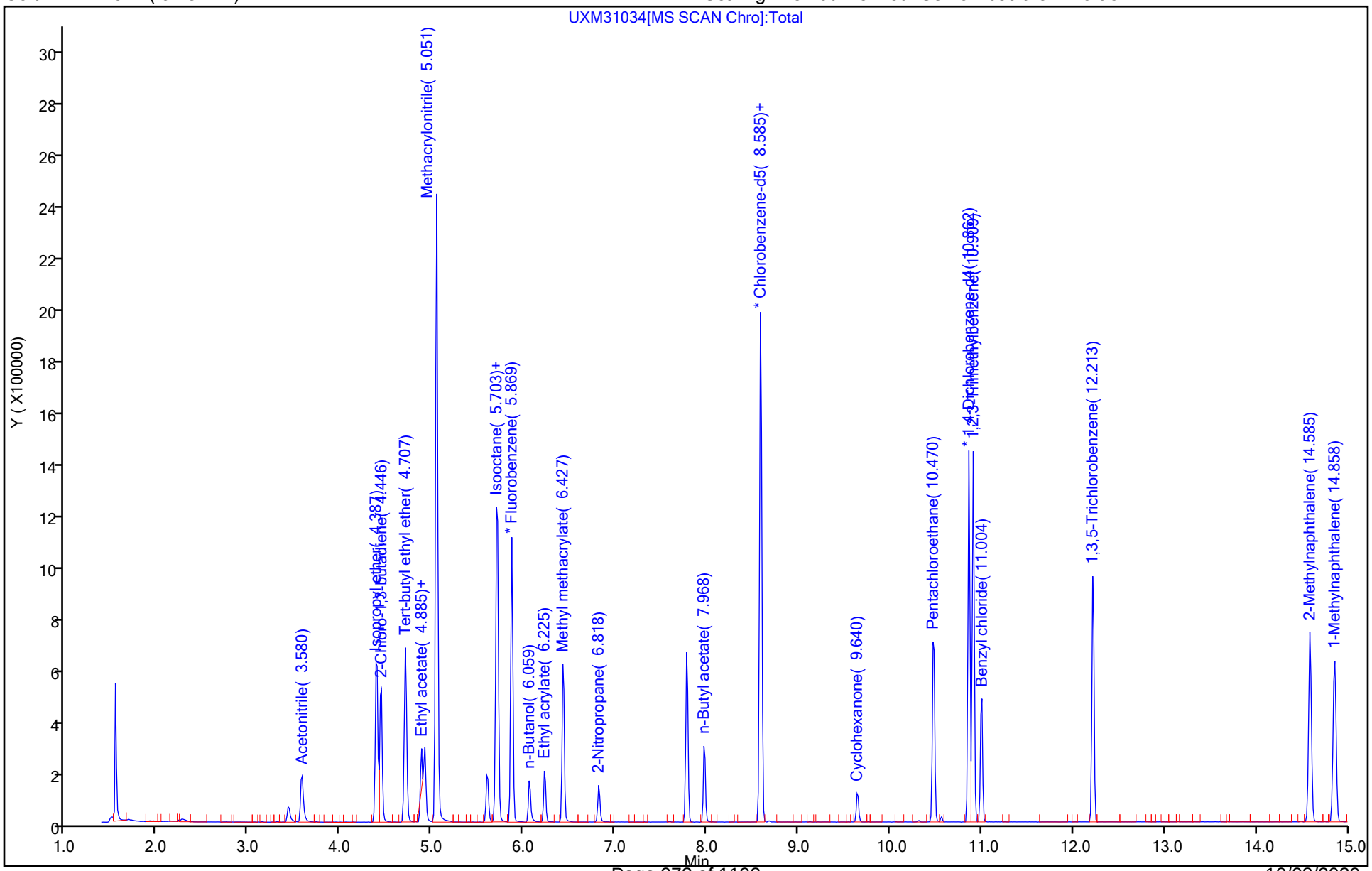
Report Date: 09-Sep-2020 08:31:39 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31034.D

Injection Date:	08-Sep-2020 17:19:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L4			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31035.D
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Sep-2020 17:44:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-022
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:40 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:22:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	885960	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	721884	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	384067	20.0	20.0	
25 Acetonitrile	41	3.581	3.581	0.000	98	108754	100.0	101.7	
36 Isopropyl ether	87	4.399	4.399	0.000	92	82477	10.0	10.5	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	90	138254	10.0	10.7	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	239506	10.0	10.4	
43 Ethyl acetate	43	4.885	4.885	0.000	98	127343	20.0	20.6	
42 Propionitrile	54	4.921	4.921	0.000	99	126888	100.0	105.6	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	470374	100.0	105.1	
163 Isooctane	57	5.703	5.703	0.000	96	270247	10.0	10.6	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	97	231324	10.0	10.1	
57 n-Butanol	56	6.059	6.059	0.000	84	41072	250.0	220.4	
59 Ethyl acrylate	55	6.225	6.225	0.000	99	83776	10.0	10.0	
62 Methyl methacrylate	41	6.427	6.427	0.000	84	110975	20.0	20.2	
66 2-Nitropropane	41	6.818	6.818	0.000	98	35233	20.0	20.1	
77 n-Butyl acetate	43	7.968	7.968	0.000	95	87580	10.0	10.0	
81 1-Chlorohexane	91	8.585	8.585	0.000	92	151095	10.0	10.1	
91 Cyclohexanone	55	9.640	9.640	0.000	88	21341	100.0	97.3	
103 Pentachloroethane	167	10.482	10.482	0.000	92	51259	20.0	14.3	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	389395	10.0	10.3	
110 Benzyl chloride	126	11.004	11.004	0.000	99	37047	10.0	9.20	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	166326	10.0	10.5	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	221271	20.0	19.3	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	212650	20.0	20.6	

Reagents:

vmra9w_00359	Amount Added:	8.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

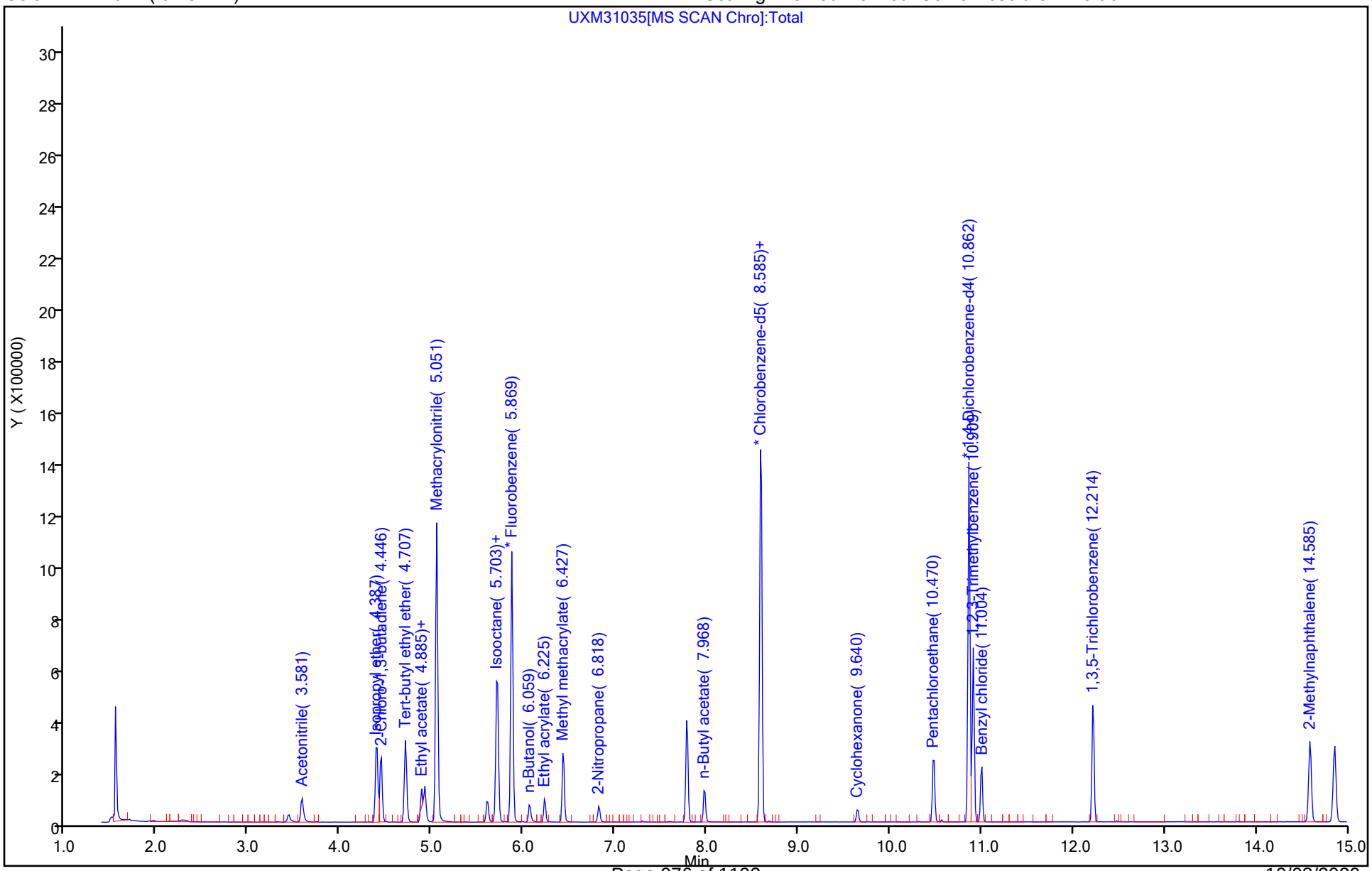
Report Date: 09-Sep-2020 08:31:41 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31035.D

Injection Date:	08-Sep-2020 17:44:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L3			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31036.D
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Sep-2020 18:09:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-023
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:42 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:23:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	852493	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	694161	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	375681	20.0	20.0	
25 Acetonitrile	41	3.581	3.581	0.000	98	11301	10.0	11.0	
36 Isopropyl ether	87	4.387	4.399	-0.012	89	6625	1.00	0.8731	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	87	11420	1.00	0.9217	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	95	19533	1.00	0.8775	
43 Ethyl acetate	43	4.885	4.885	0.000	98	10536	2.00	1.77	
42 Propionitrile	54	4.921	4.921	0.000	97	11381	10.0	9.84	
44 Methacrylonitrile	41	5.051	5.051	0.000	87	37890	10.0	8.80	
163 Isooctane	57	5.703	5.703	0.000	88	20830	1.00	0.8458	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	86	18165	1.00	0.8277	
57 n-Butanol	56	6.071	6.059	0.012	75	2295	25.0	29.8	
59 Ethyl acrylate	55	6.237	6.225	0.012	93	6636	1.00	0.8258	
62 Methyl methacrylate	41	6.427	6.427	0.000	82	8663	2.00	1.64	
66 2-Nitropropane	41	6.818	6.818	0.000	97	2732	2.00	1.62	
77 n-Butyl acetate	43	7.968	7.968	0.000	93	6910	1.00	0.8197	
81 1-Chlorohexane	91	8.585	8.585	0.000	77	12907	1.00	0.8931	
91 Cyclohexanone	55	9.640	9.640	0.000	1	1498	10.0	6.98	
103 Pentachloroethane	167	10.482	10.482	0.000	90	4835	2.00	1.40	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	95	31838	1.00	0.8650	
110 Benzyl chloride	126	11.004	11.004	0.000	99	2934	1.00	0.7452	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	97	14589	1.00	0.9380	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	91	19778	2.00	1.77	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	17322	2.00	1.71	

Reagents:

vmra9w_00359	Amount Added:	0.80	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

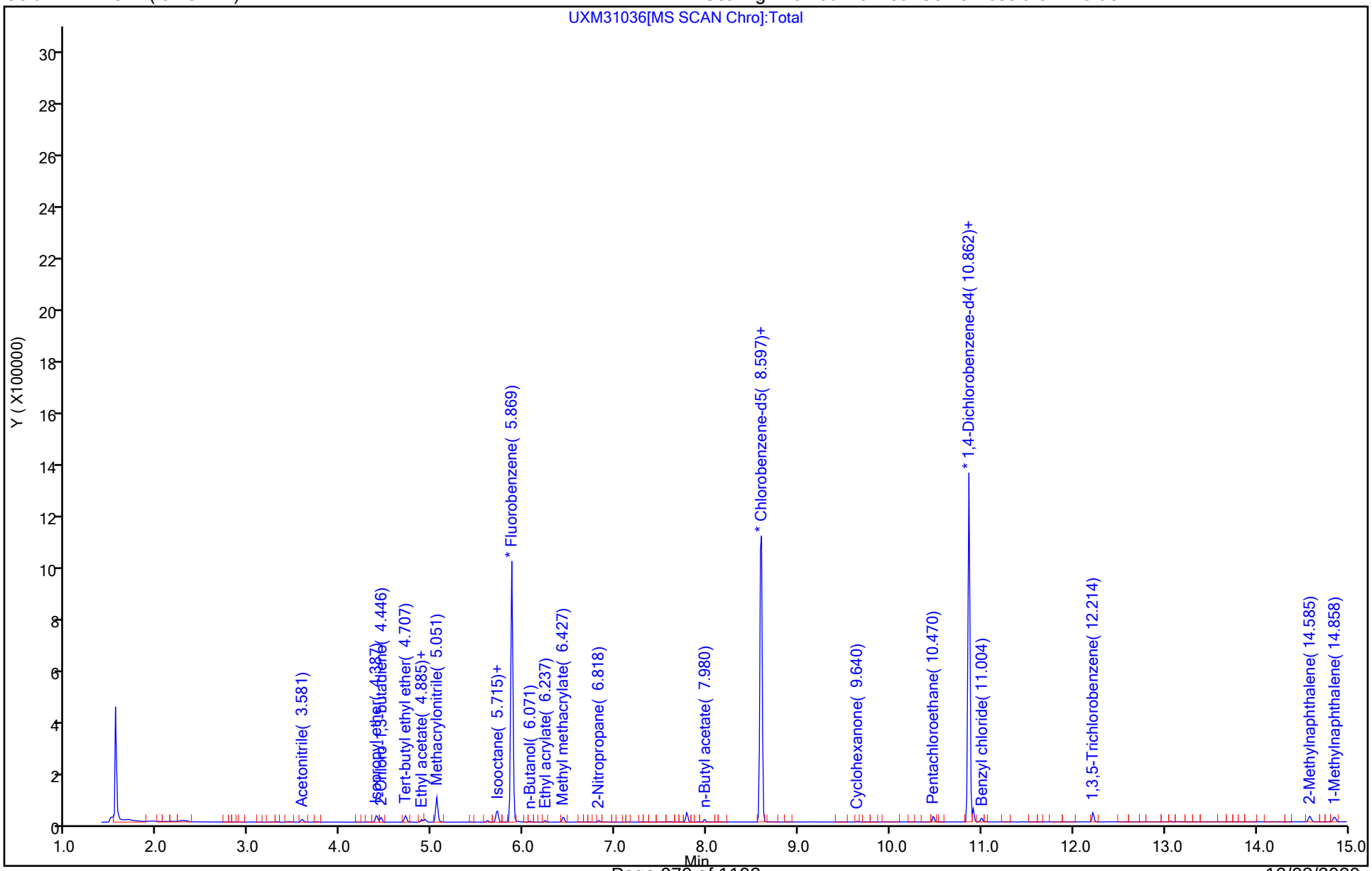
Report Date: 09-Sep-2020 08:31:42 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31036.D

Injection Date:	08-Sep-2020 18:09:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L2			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Sep-2020 18:33:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-024
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:44 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:27:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	841069	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	682101	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	374881	20.0	20.0	
25 Acetonitrile	41	3.580	3.581	-0.001	96	5457	5.00	5.38	
36 Isopropyl ether	87	4.387	4.399	-0.012	87	3133	0.5000	0.4185	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	88	5057	0.5000	0.4137	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	94	9044	0.5000	0.4118	
43 Ethyl acetate	43	4.885	4.885	0.000	96	4509	1.00	0.7682	
42 Propionitrile	54	4.920	4.921	-0.001	93	4727	5.00	4.14	
44 Methacrylonitrile	41	5.051	5.051	0.000	85	18208	5.00	4.29	
163 Isooctane	57	5.703	5.703	0.000	85	8598	0.5000	0.3539	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	87	9481	0.5000	0.4379	
57 n-Butanol	56		6.059				ND	ND	
59 Ethyl acrylate	55	6.237	6.225	0.012	91	2978	0.5000	0.3756	
62 Methyl methacrylate	41	6.426	6.427	-0.001	88	4174	1.00	0.8004	
66 2-Nitropropane	41	6.818	6.818	0.000	39	1238	1.00	0.7429	
77 n-Butyl acetate	43	7.968	7.968	0.000	91	3712	0.5000	0.4463	
81 1-Chlorohexane	91	8.585	8.585	0.000	64	6381	0.5000	0.4493	
91 Cyclohexanone	55		9.640				ND	ND	
103 Pentachloroethane	167	10.482	10.482	0.000	85	3408	1.00	1.01	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	96	15560	0.5000	0.4236	
110 Benzyl chloride	126		11.004				ND	ND	
114 1,3,5-Trichlorobenzene	180	12.213	12.214	-0.001	94	6504	0.5000	0.4190	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	89	8273	1.00	0.7404	
162 1-Methylnaphthalene	142	14.846	14.858	-0.012	0	6971	1.00	0.6915	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

vmra9w_00359	Amount Added:	0.40	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

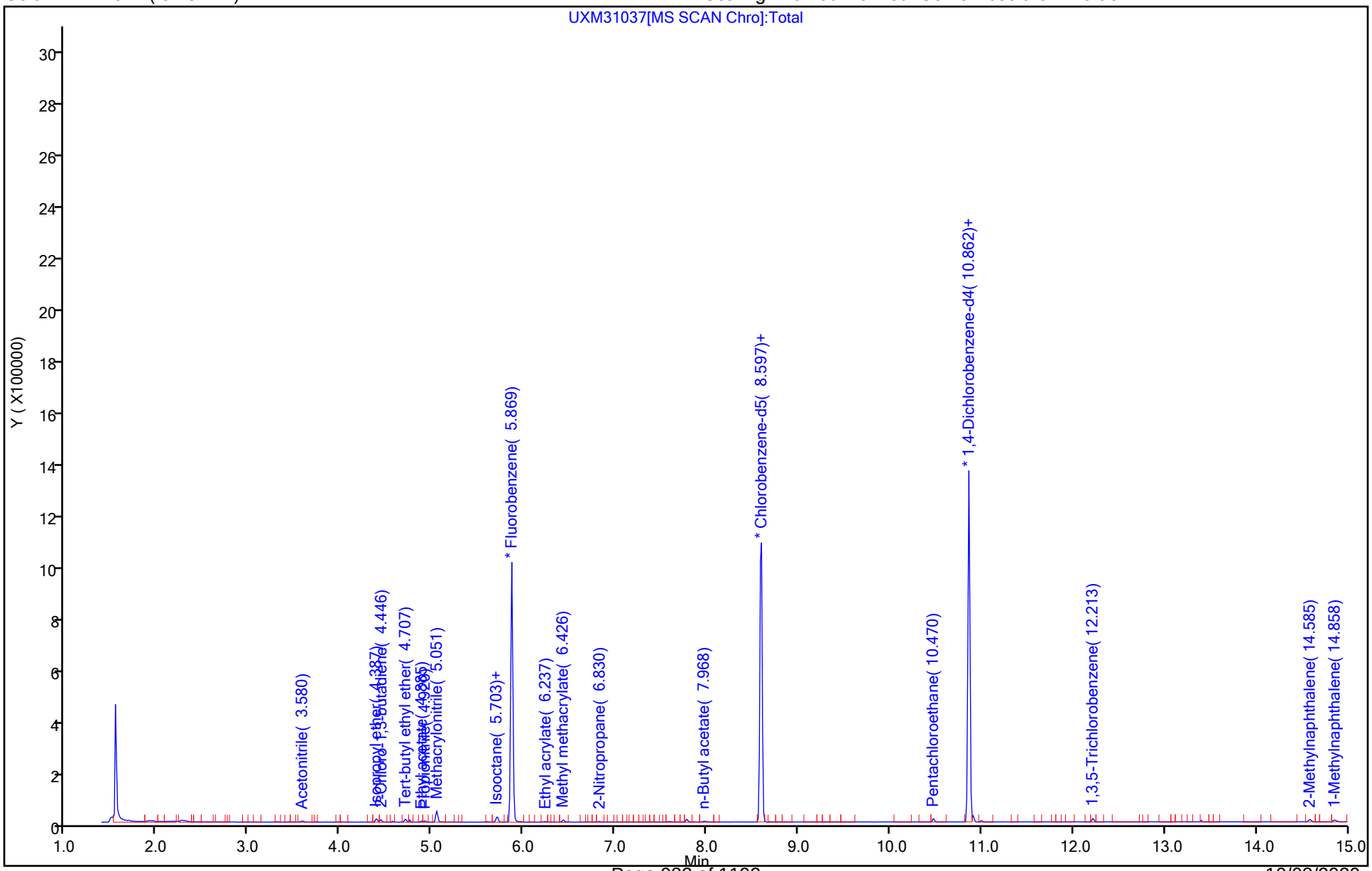
Report Date: 09-Sep-2020 08:31:44 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Injection Date:	08-Sep-2020 18:33:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L1			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton

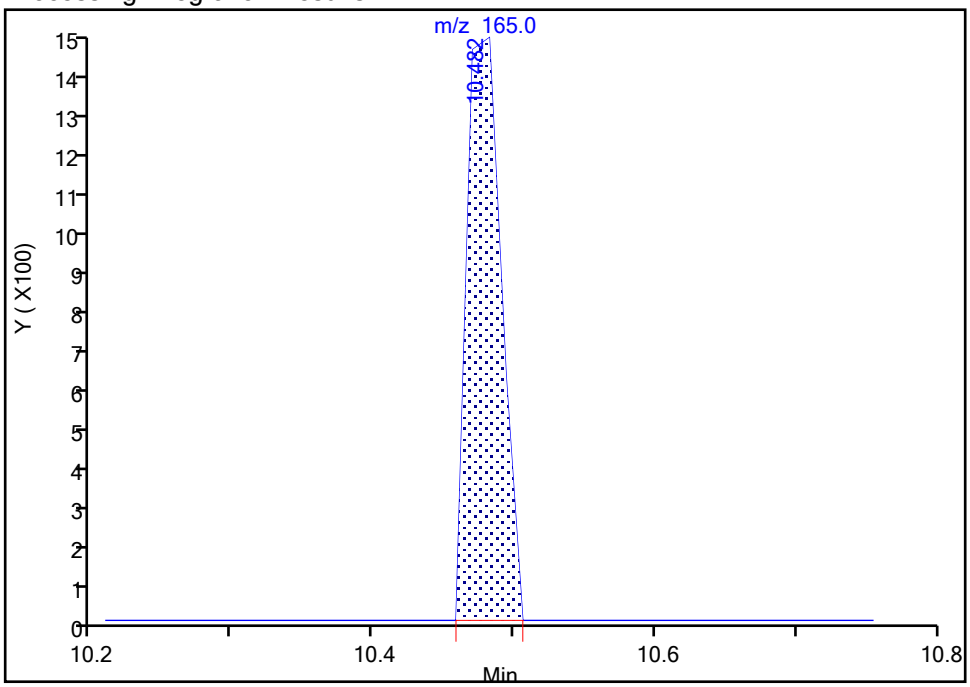
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D
Injection Date: 08-Sep-2020 18:33:30 Instrument ID: A3UX16
Lims ID: stdA9 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

103 Pentachloroethane, CAS: 76-01-7

Signal: 2

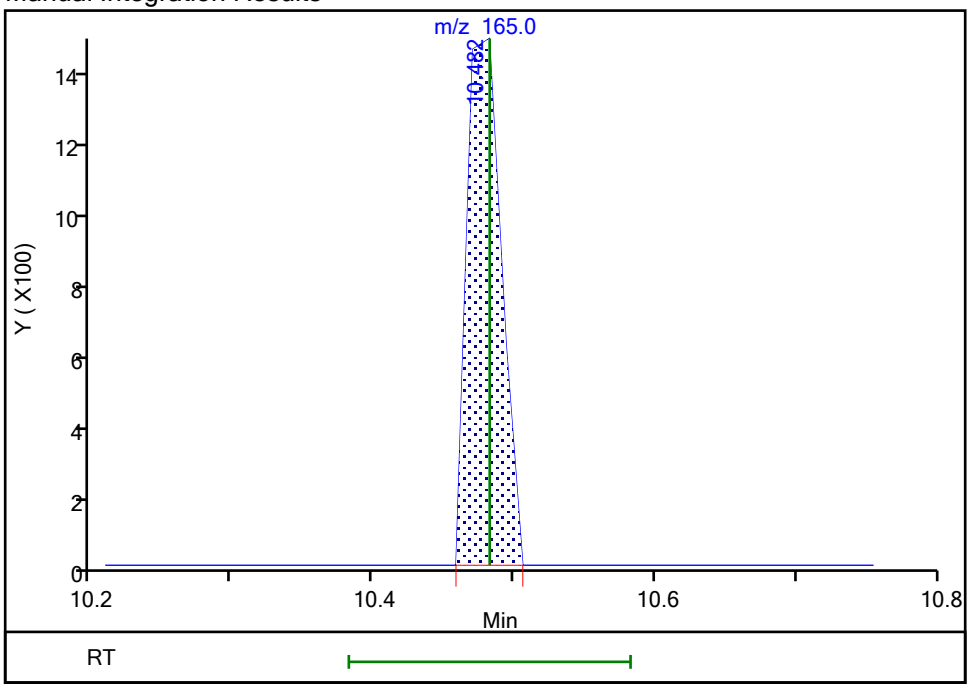
Processing Integration Results

RT: 10.48
Area: 2510
Amount: 2.701157
Amount Units: ug/l



Manual Integration Results

RT: 10.48
Area: 2510
Amount: 1.005249
Amount Units: ug/l



Reviewer: bosworthh, 09-Sep-2020 08:24:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

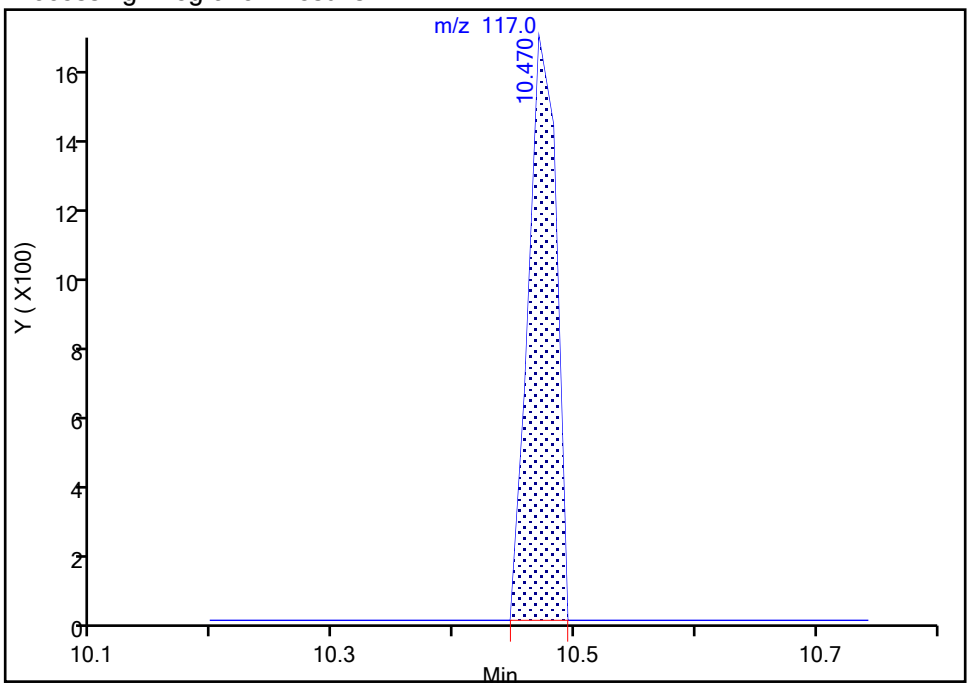
Data File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Injection Date:	08-Sep-2020 18:33:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	24	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

103 Pentachloroethane, CAS: 76-01-7

Signal: 3

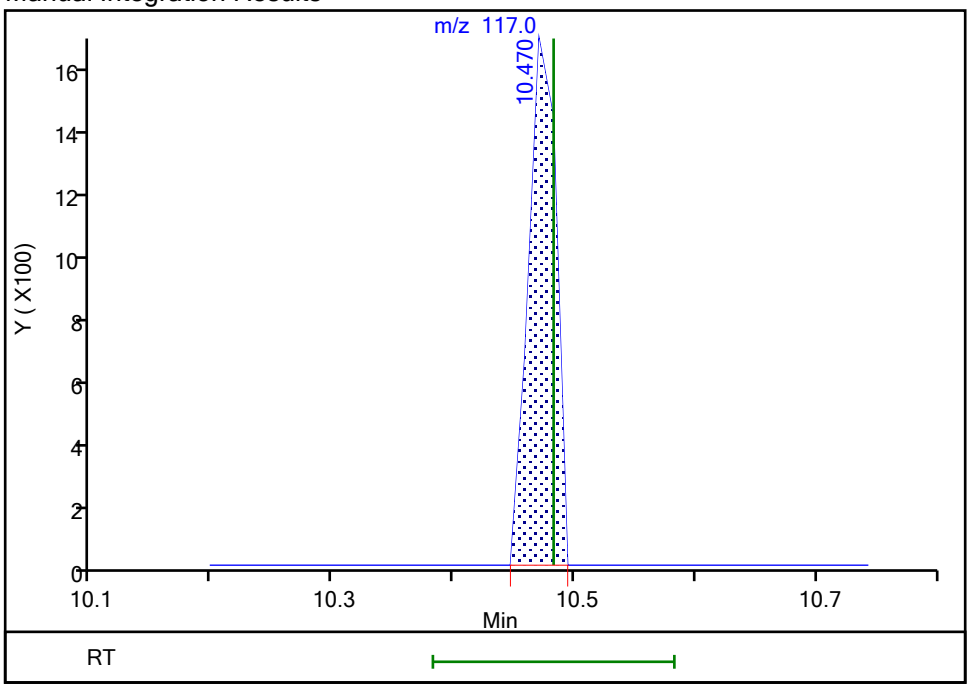
Processing Integration Results

RT: 10.47
Area: 2596
Amount: 2.701157
Amount Units: ug/l



Manual Integration Results

RT: 10.47
Area: 2596
Amount: 1.005249
Amount Units: ug/l



Reviewer: bosworthh, 09-Sep-2020 08:24:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

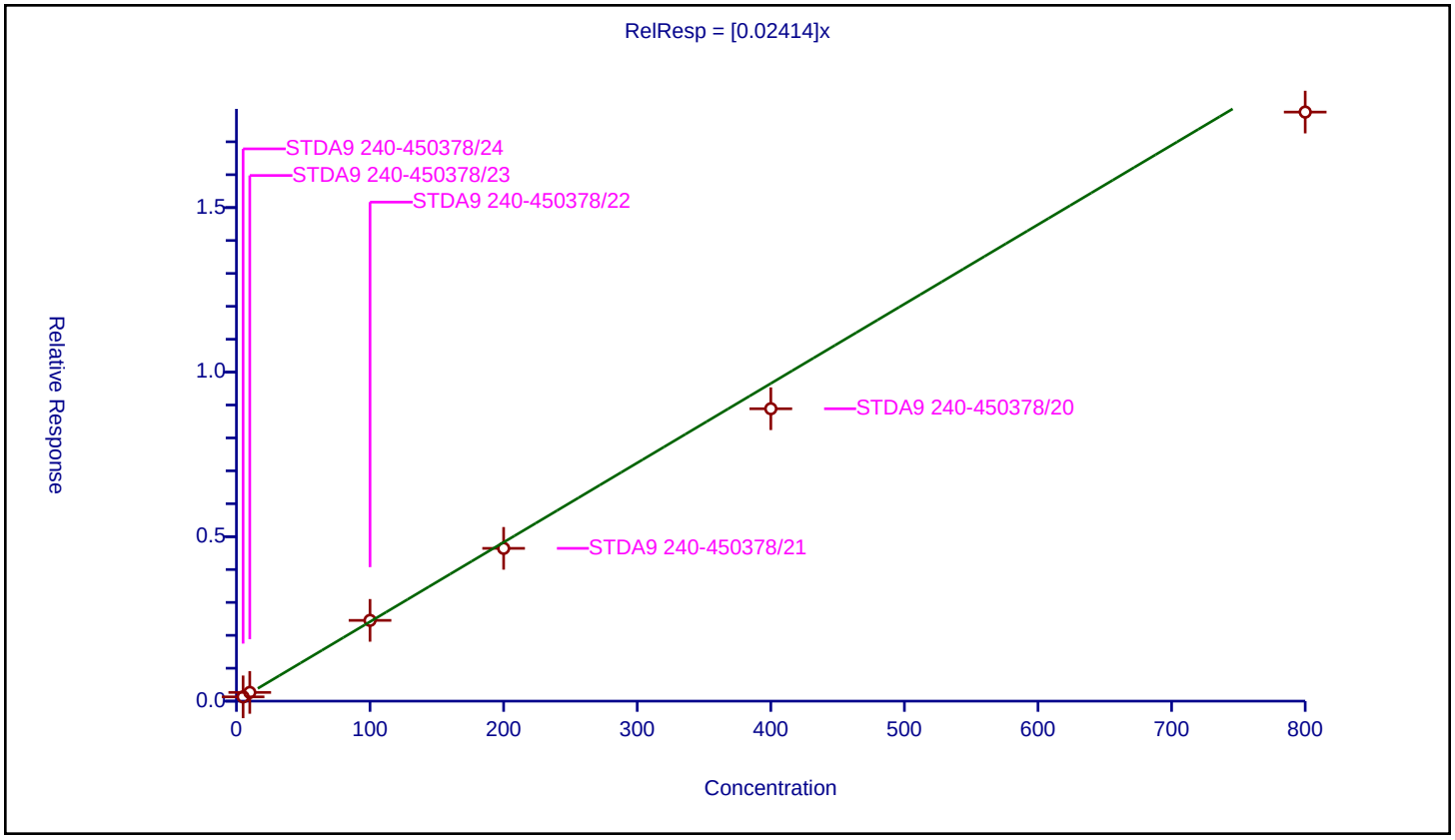
Curve Coefficients

Intercept:	0
Slope:	0.02414

Error Coefficients

Standard Error:	460000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	5.0	0.129763	20.0	841069.0	0.025953	Y
2	STDA9 240-450378/23	10.0	0.265128	20.0	852493.0	0.026513	Y
3	STDA9 240-450378/22	100.0	2.455054	20.0	885960.0	0.024551	Y
4	STDA9 240-450378/21	200.0	4.643823	20.0	928653.0	0.023219	Y
5	STDA9 240-450378/20	400.0	8.886777	20.0	996485.0	0.022217	Y
6	STDA9 240-450378/19	800.0	17.904013	20.0	1001695.0	0.02238	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

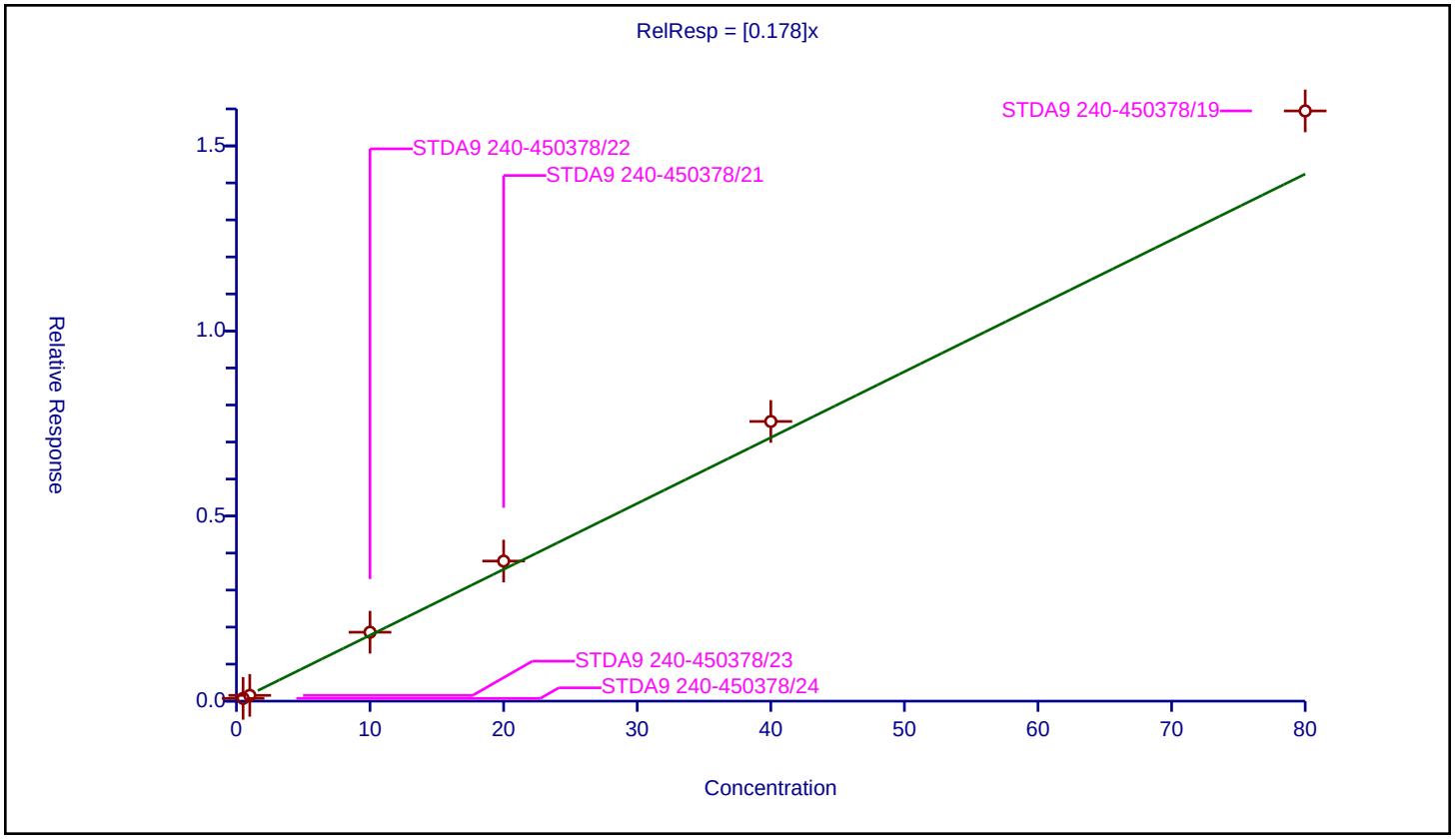
Curve Coefficients

Intercept:	0
Slope:	0.178

Error Coefficients

Standard Error:	404000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.0745	20.0	841069.0	0.149001	Y
2	STDA9 240-450378/23	1.0	0.155426	20.0	852493.0	0.155426	Y
3	STDA9 240-450378/22	10.0	1.861867	20.0	885960.0	0.186187	Y
4	STDA9 240-450378/21	20.0	3.784428	20.0	928653.0	0.189221	Y
5	STDA9 240-450378/20	40.0	7.55612	20.0	996485.0	0.188903	Y
6	STDA9 240-450378/19	80.0	15.944494	20.0	1001695.0	0.199306	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

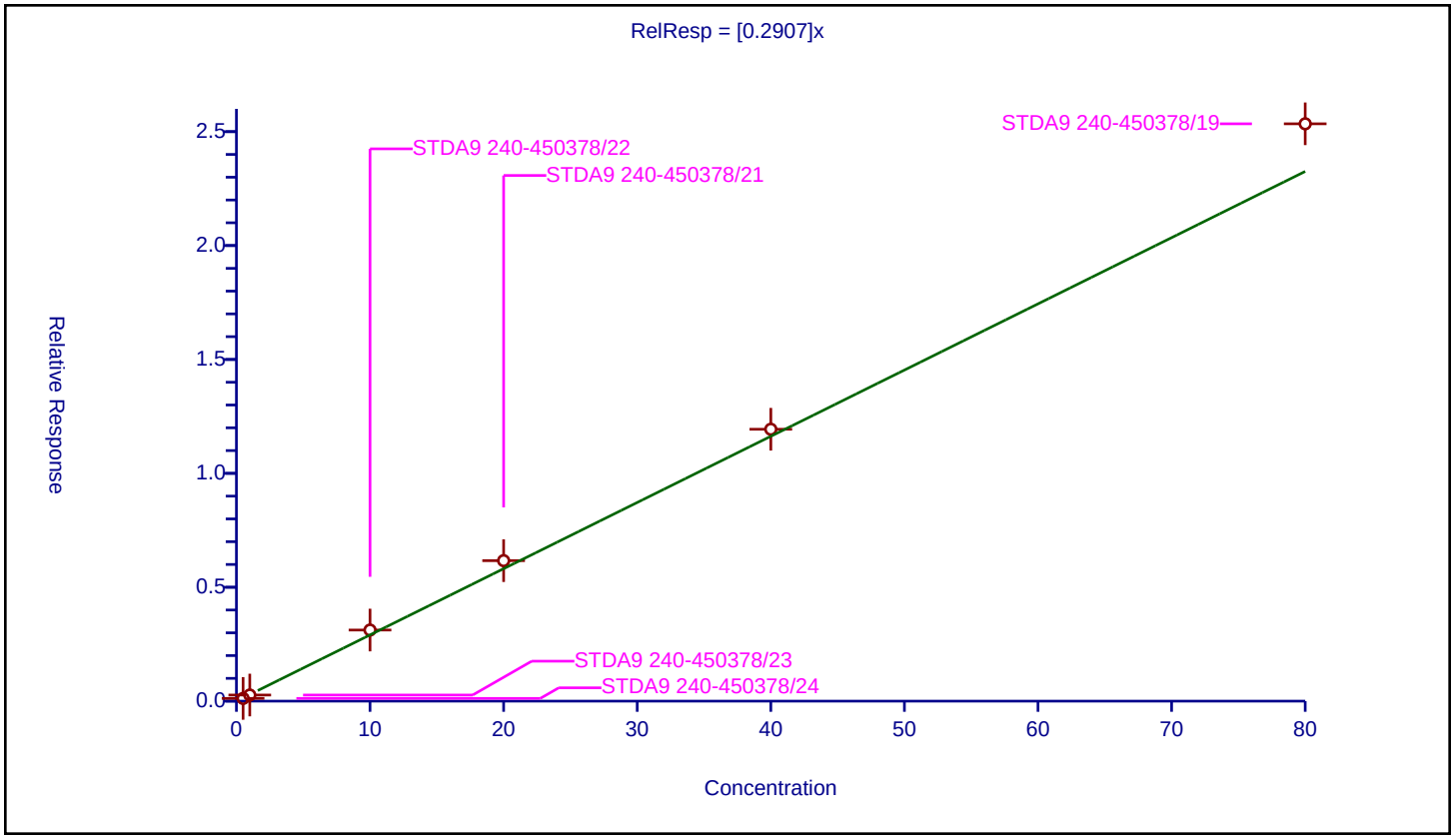
Curve Coefficients

Intercept:	0
Slope:	0.2907

Error Coefficients

Standard Error:	643000
Relative Standard Error:	10.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.120252	20.0	841069.0	0.240503	Y
2	STDA9 240-450378/23	1.0	0.26792	20.0	852493.0	0.26792	Y
3	STDA9 240-450378/22	10.0	3.120999	20.0	885960.0	0.3121	Y
4	STDA9 240-450378/21	20.0	6.167169	20.0	928653.0	0.308358	Y
5	STDA9 240-450378/20	40.0	11.936256	20.0	996485.0	0.298406	Y
6	STDA9 240-450378/19	80.0	25.345479	20.0	1001695.0	0.316818	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

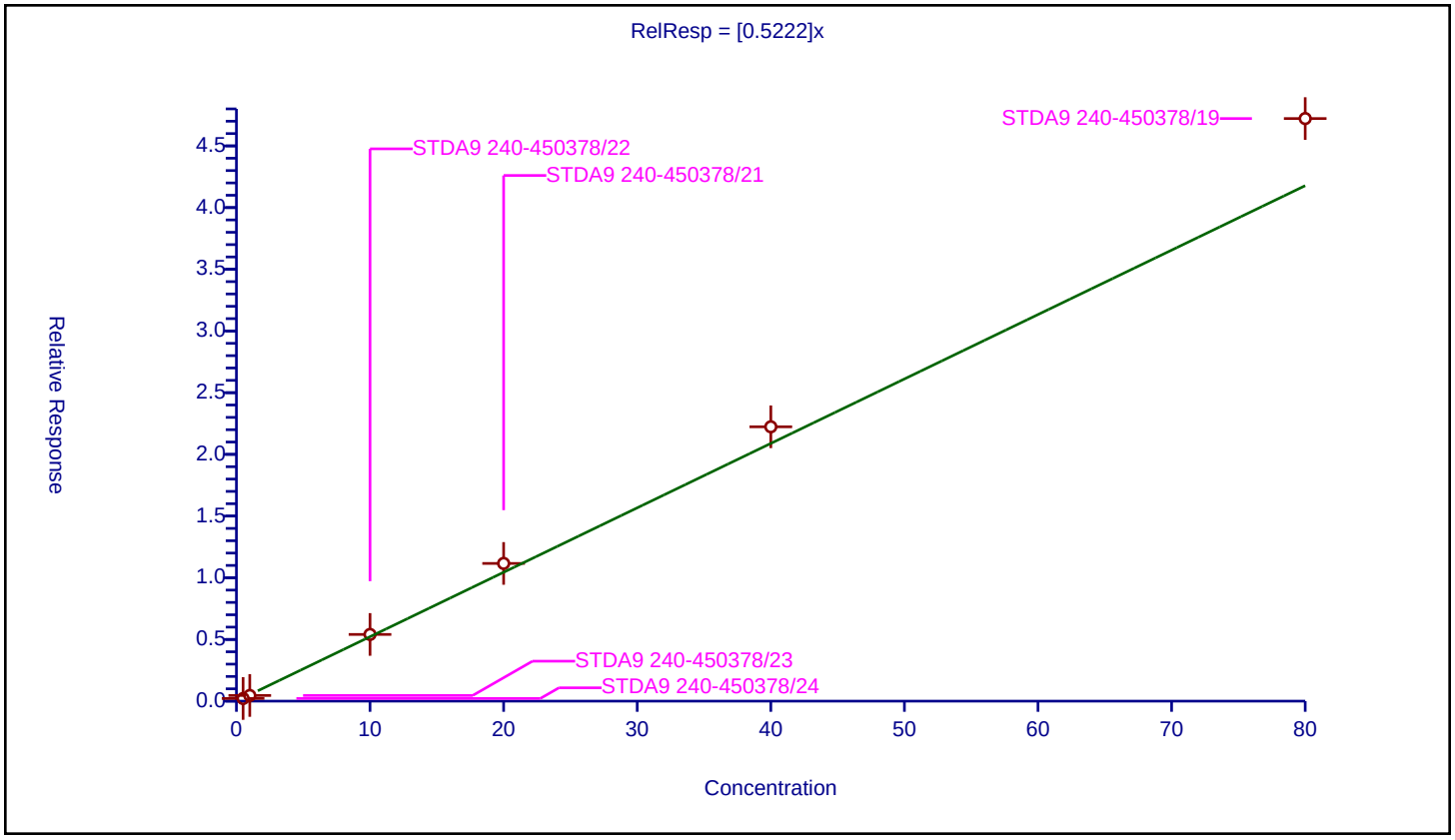
Curve Coefficients

Intercept:	0
Slope:	0.5222

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	12.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.21506	20.0	841069.0	0.430119	Y
2	STDA9 240-450378/23	1.0	0.458256	20.0	852493.0	0.458256	Y
3	STDA9 240-450378/22	10.0	5.4067	20.0	885960.0	0.54067	Y
4	STDA9 240-450378/21	20.0	11.161586	20.0	928653.0	0.558079	Y
5	STDA9 240-450378/20	40.0	22.235197	20.0	996485.0	0.55588	Y
6	STDA9 240-450378/19	80.0	47.216268	20.0	1001695.0	0.590203	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

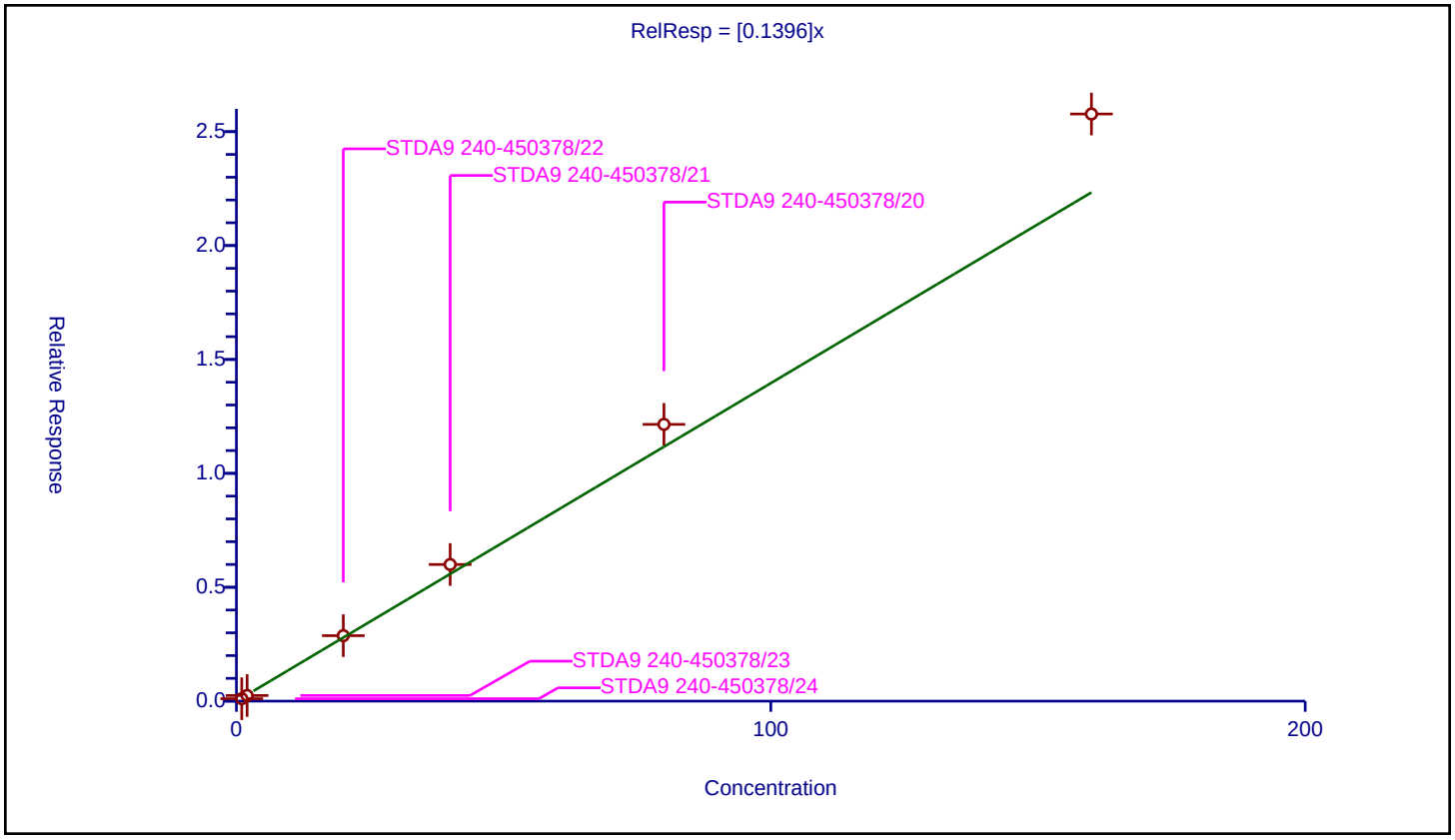
Curve Coefficients

Intercept:	0
Slope:	0.1396

Error Coefficients

Standard Error:	652000
Relative Standard Error:	14.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.107221	20.0	841069.0	0.107221	Y
2	STDA9 240-450378/23	2.0	0.247181	20.0	852493.0	0.12359	Y
3	STDA9 240-450378/22	20.0	2.87469	20.0	885960.0	0.143734	Y
4	STDA9 240-450378/21	40.0	5.998731	20.0	928653.0	0.149968	Y
5	STDA9 240-450378/20	80.0	12.150509	20.0	996485.0	0.151881	Y
6	STDA9 240-450378/19	160.0	25.775031	20.0	1001695.0	0.161094	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

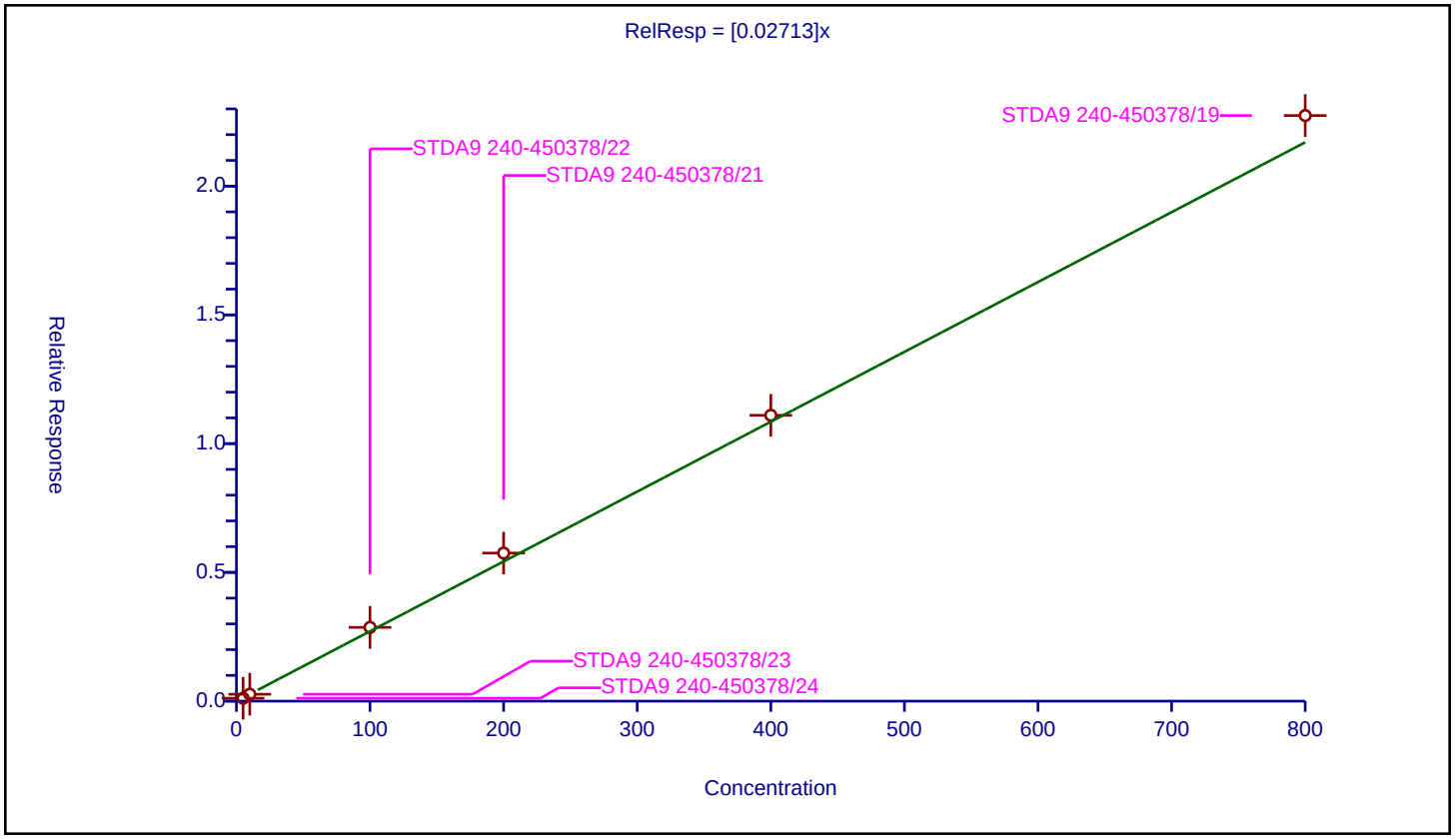
Curve Coefficients

Intercept:	0
Slope:	0.02713

Error Coefficients

Standard Error:	582000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	5.0	0.112405	20.0	841069.0	0.022481	Y
2	STDA9 240-450378/23	10.0	0.267005	20.0	852493.0	0.026701	Y
3	STDA9 240-450378/22	100.0	2.864418	20.0	885960.0	0.028644	Y
4	STDA9 240-450378/21	200.0	5.750609	20.0	928653.0	0.028753	Y
5	STDA9 240-450378/20	400.0	11.10094	20.0	996485.0	0.027752	Y
6	STDA9 240-450378/19	800.0	22.741513	20.0	1001695.0	0.028427	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

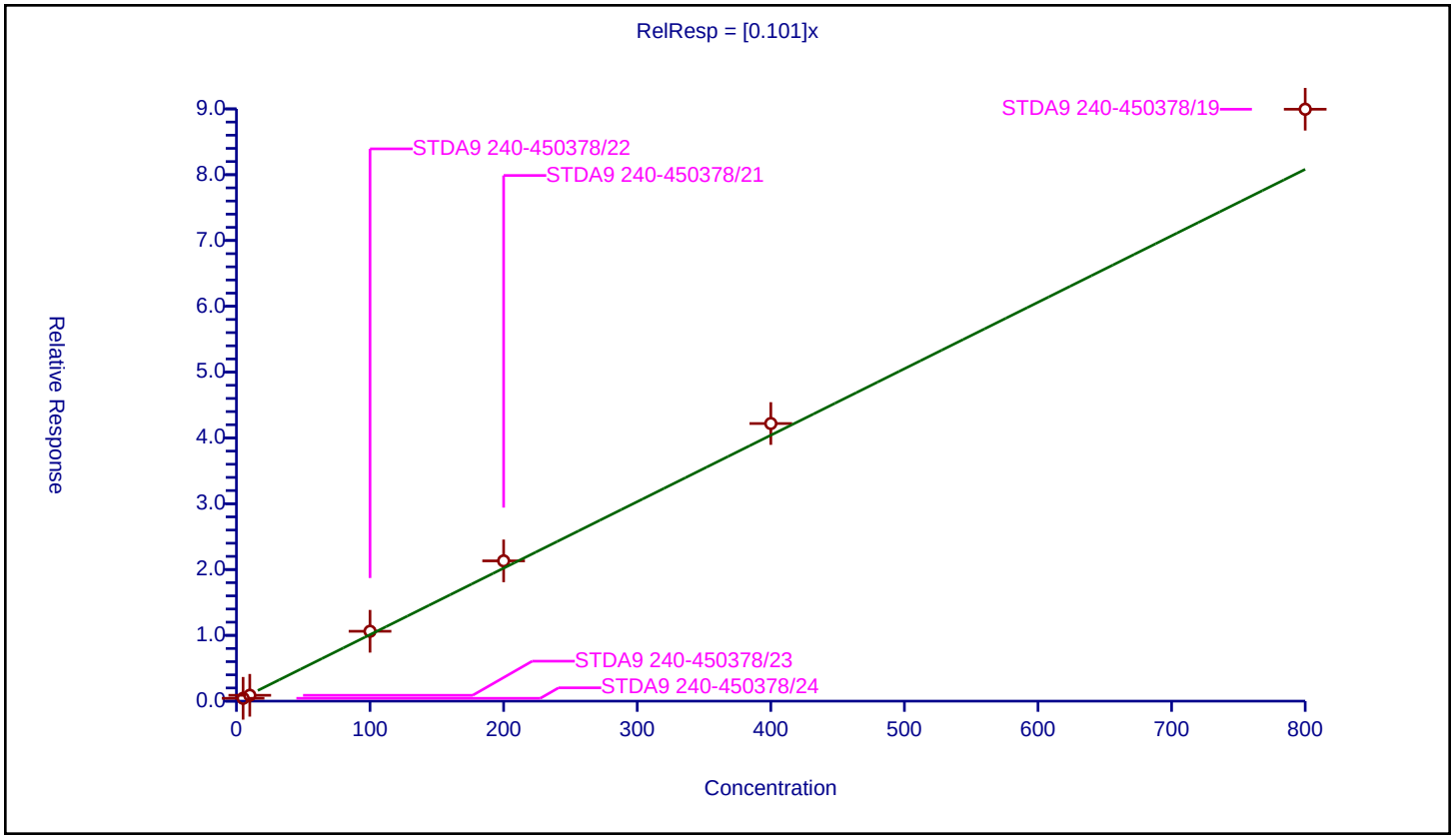
Curve Coefficients

Intercept:	0
Slope:	0.101

Error Coefficients

Standard Error:	2280000
Relative Standard Error:	10.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	5.0	0.432973	20.0	841069.0	0.086595	Y
2	STDA9 240-450378/23	10.0	0.888922	20.0	852493.0	0.088892	Y
3	STDA9 240-450378/22	100.0	10.618403	20.0	885960.0	0.106184	Y
4	STDA9 240-450378/21	200.0	21.315044	20.0	928653.0	0.106575	Y
5	STDA9 240-450378/20	400.0	42.186425	20.0	996485.0	0.105466	Y
6	STDA9 240-450378/19	800.0	89.946061	20.0	1001695.0	0.112433	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

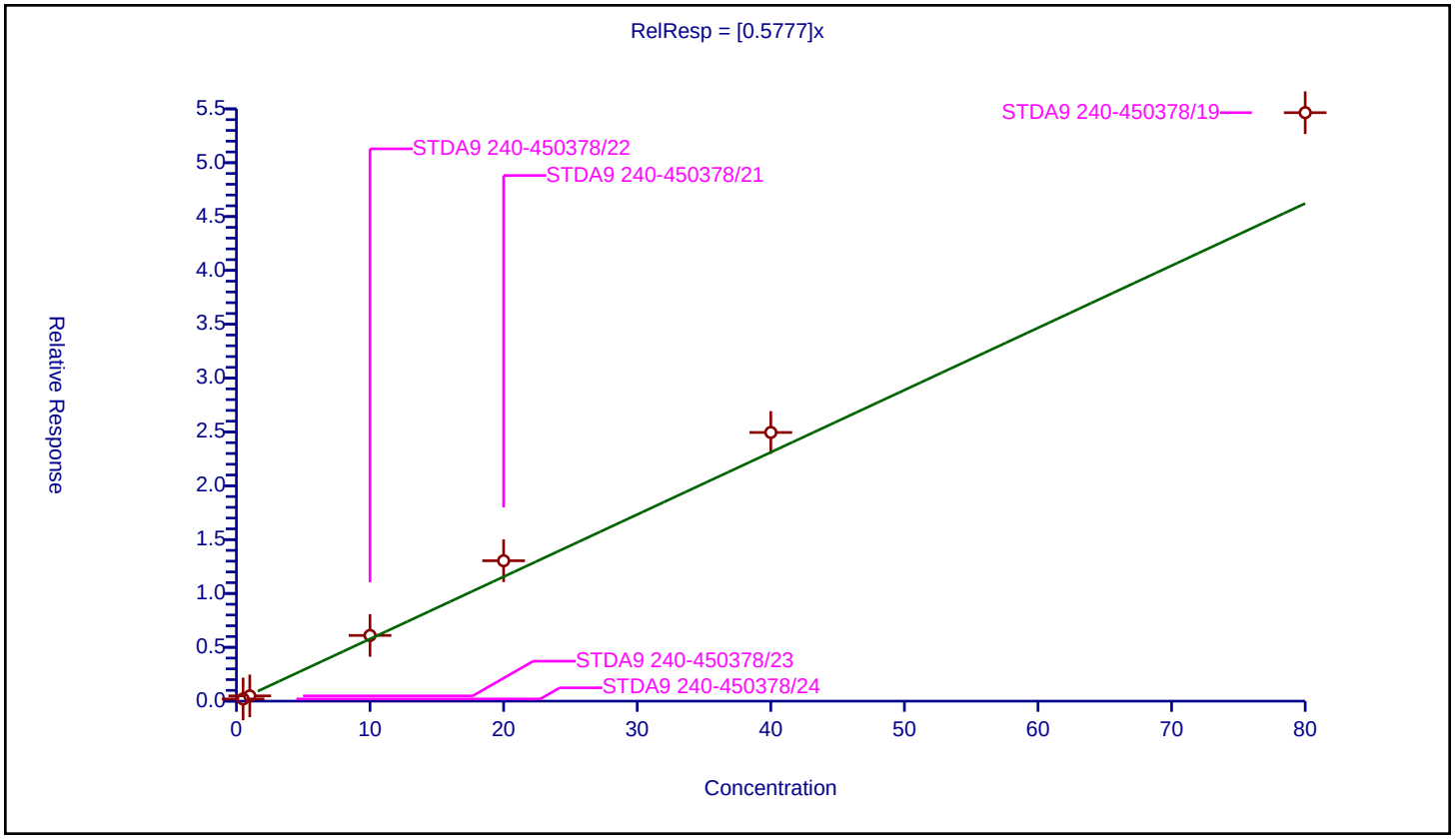
Curve Coefficients

Intercept:	0
Slope:	0.5777

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	18.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.204454	20.0	841069.0	0.408908	Y
2	STDA9 240-450378/23	1.0	0.488684	20.0	852493.0	0.488684	Y
3	STDA9 240-450378/22	10.0	6.100659	20.0	885960.0	0.610066	Y
4	STDA9 240-450378/21	20.0	13.037658	20.0	928653.0	0.651883	Y
5	STDA9 240-450378/20	40.0	24.953492	20.0	996485.0	0.623837	Y
6	STDA9 240-450378/19	80.0	54.64925	20.0	1001695.0	0.683116	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

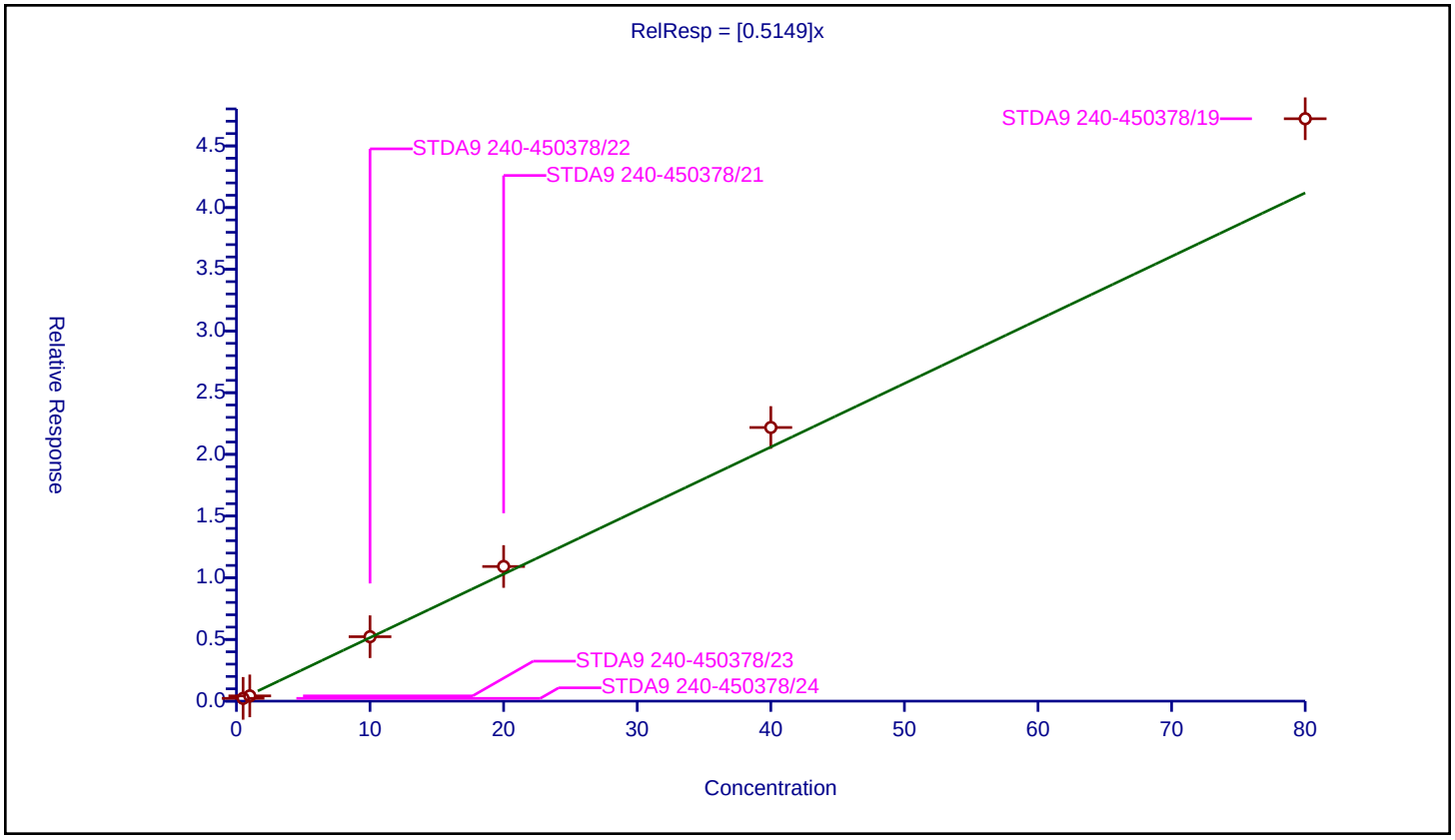
Curve Coefficients

Intercept:	0
Slope:	0.5149

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	12.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.225451	20.0	841069.0	0.450902	Y
2	STDA9 240-450378/23	1.0	0.426162	20.0	852493.0	0.426162	Y
3	STDA9 240-450378/22	10.0	5.221996	20.0	885960.0	0.5222	Y
4	STDA9 240-450378/21	20.0	10.91314	20.0	928653.0	0.545657	Y
5	STDA9 240-450378/20	40.0	22.177634	20.0	996485.0	0.554441	Y
6	STDA9 240-450378/19	80.0	47.200675	20.0	1001695.0	0.590008	Y



Calibration / n-Butanol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

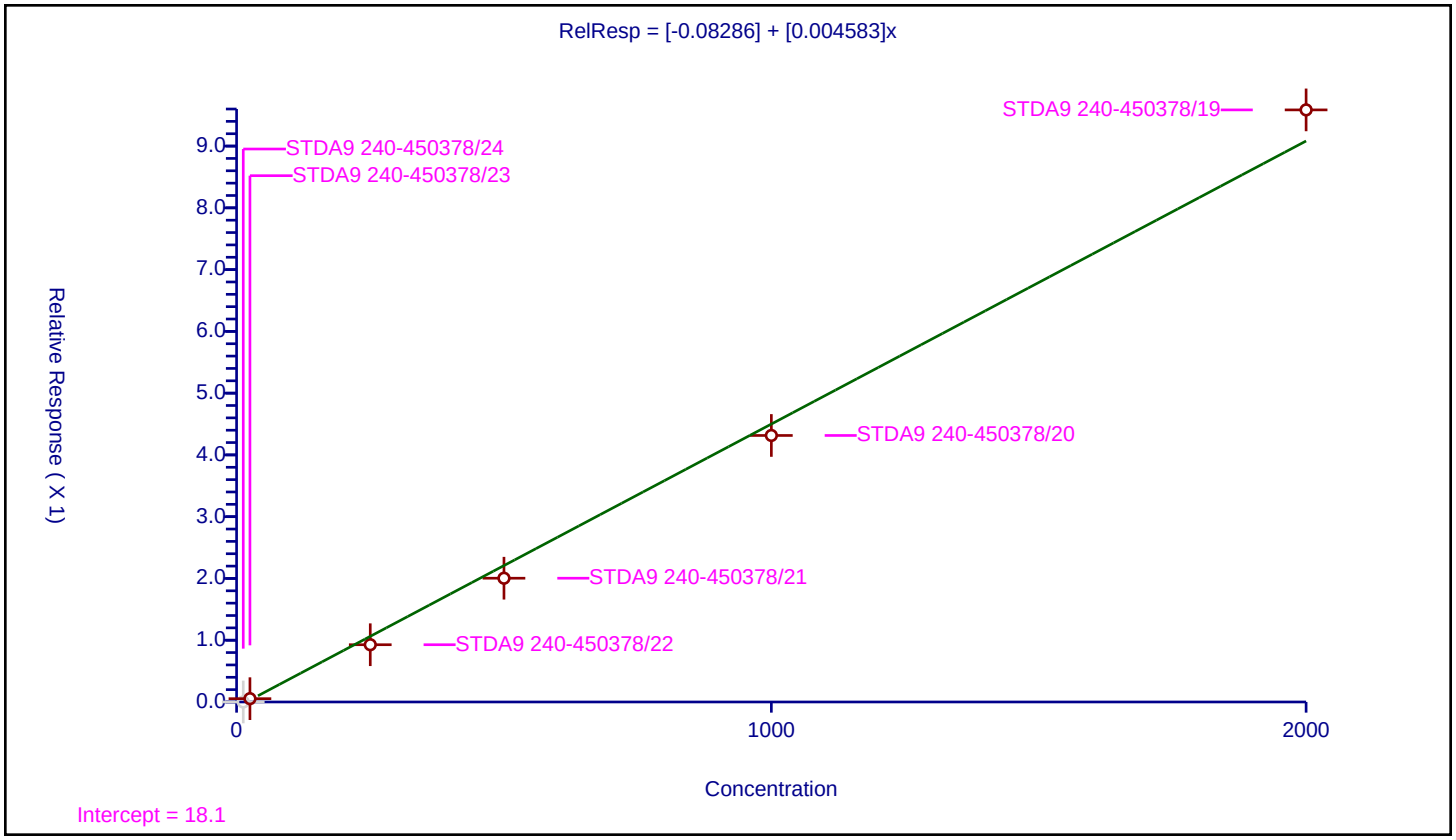
Curve Coefficients

Intercept:	-0.08286
Slope:	0.004583

Error Coefficients

Standard Error:	309000
Relative Standard Error:	14.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	12.5	0.0	20.0	841069.0	0.0	N
2	STDA9 240-450378/23	25.0	0.053842	20.0	852493.0	0.002154	Y
3	STDA9 240-450378/22	250.0	0.927175	20.0	885960.0	0.003709	Y
4	STDA9 240-450378/21	500.0	2.003655	20.0	928653.0	0.004007	Y
5	STDA9 240-450378/20	1000.0	4.314827	20.0	996485.0	0.004315	Y
6	STDA9 240-450378/19	2000.0	9.585832	20.0	1001695.0	0.004793	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

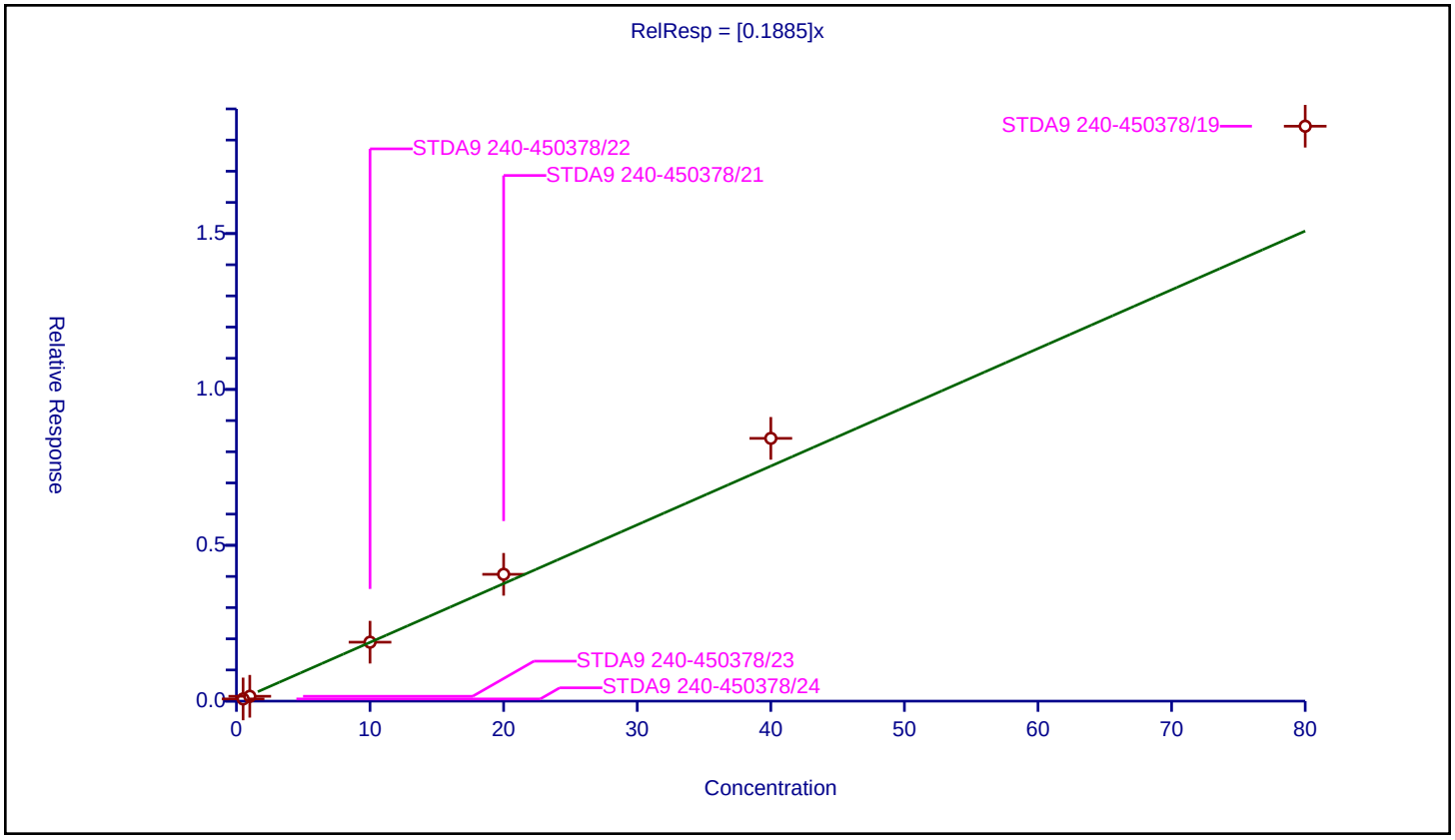
Curve Coefficients

Intercept:	0
Slope:	0.1885

Error Coefficients

Standard Error:	463000
Relative Standard Error:	18.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.070815	20.0	841069.0	0.141629	Y
2	STDA9 240-450378/23	1.0	0.155685	20.0	852493.0	0.155685	Y
3	STDA9 240-450378/22	10.0	1.891191	20.0	885960.0	0.189119	Y
4	STDA9 240-450378/21	20.0	4.068753	20.0	928653.0	0.203438	Y
5	STDA9 240-450378/20	40.0	8.430032	20.0	996485.0	0.210751	Y
6	STDA9 240-450378/19	80.0	18.444616	20.0	1001695.0	0.230558	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

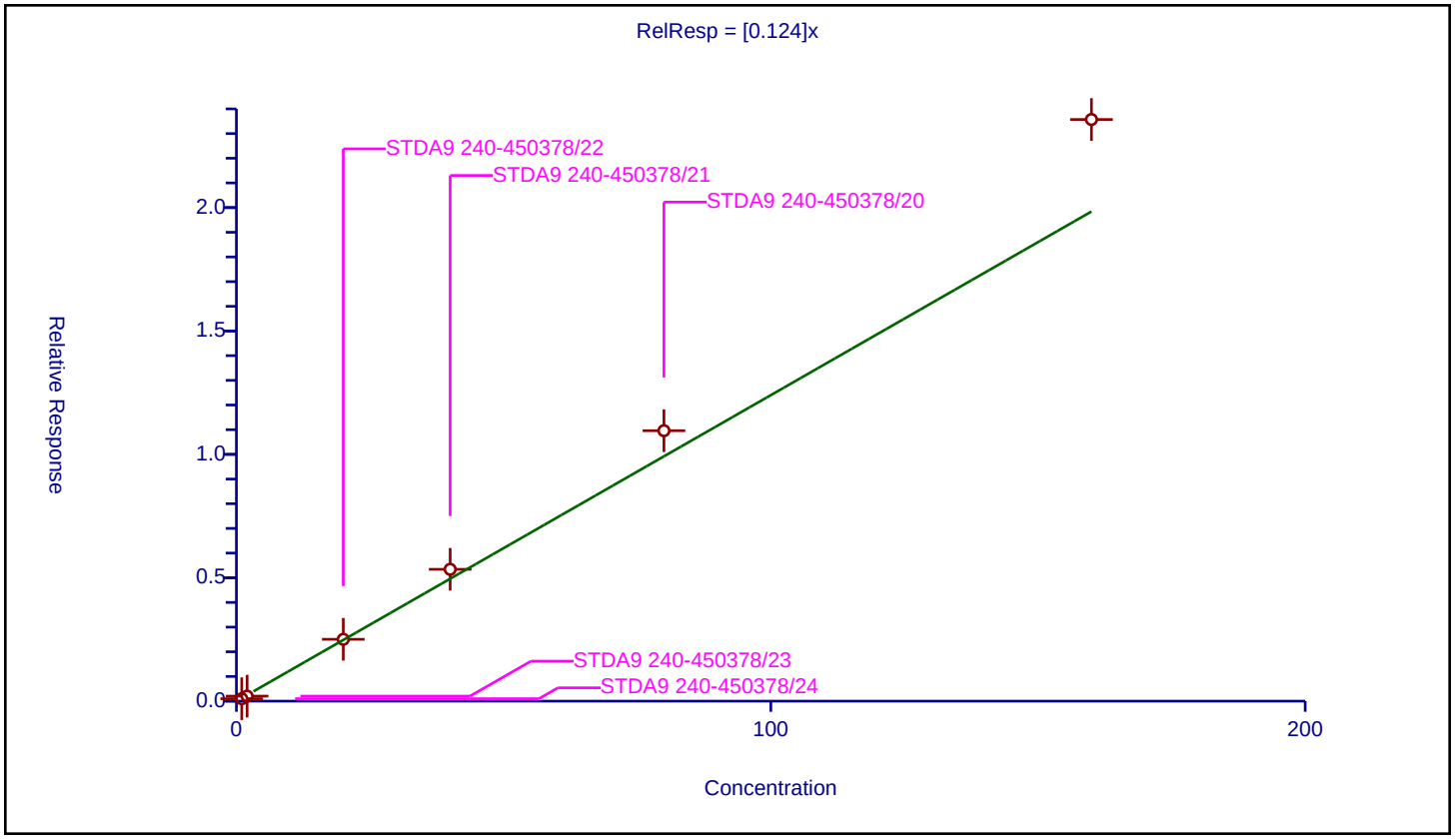
Curve Coefficients

Intercept:	0
Slope:	0.124

Error Coefficients

Standard Error:	594000
Relative Standard Error:	15.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.099255	20.0	841069.0	0.099255	Y
2	STDA9 240-450378/23	2.0	0.203239	20.0	852493.0	0.10162	Y
3	STDA9 240-450378/22	20.0	2.505192	20.0	885960.0	0.12526	Y
4	STDA9 240-450378/21	40.0	5.342125	20.0	928653.0	0.133553	Y
5	STDA9 240-450378/20	80.0	10.959723	20.0	996485.0	0.136997	Y
6	STDA9 240-450378/19	160.0	23.569669	20.0	1001695.0	0.14731	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

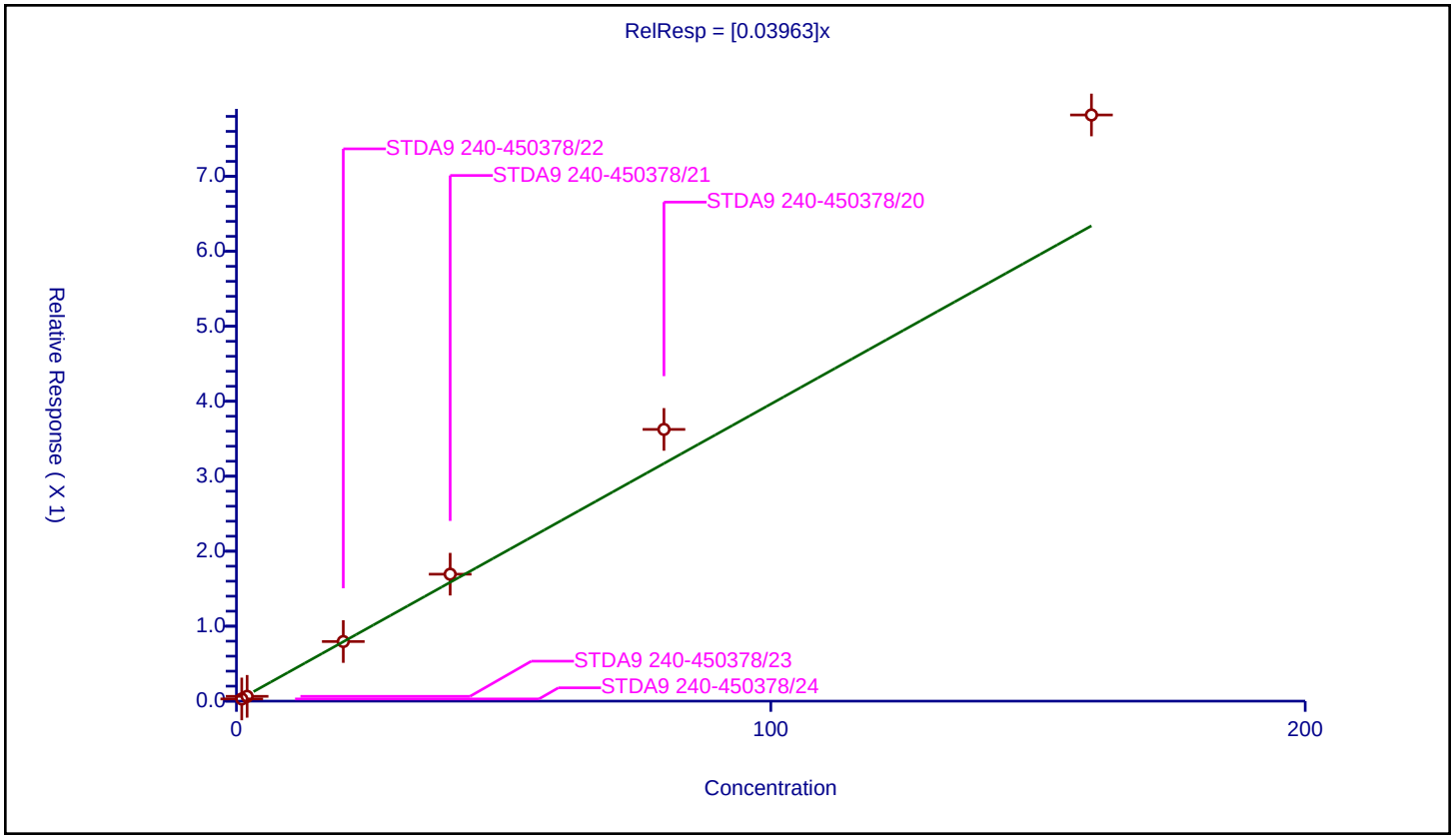
Curve Coefficients

Intercept:	0
Slope:	0.03963

Error Coefficients

Standard Error:	197000
Relative Standard Error:	19.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.029439	20.0	841069.0	0.029439	Y
2	STDA9 240-450378/23	2.0	0.064094	20.0	852493.0	0.032047	Y
3	STDA9 240-450378/22	20.0	0.795363	20.0	885960.0	0.039768	Y
4	STDA9 240-450378/21	40.0	1.693377	20.0	928653.0	0.042334	Y
5	STDA9 240-450378/20	80.0	3.6245	20.0	996485.0	0.045306	Y
6	STDA9 240-450378/19	160.0	7.818827	20.0	1001695.0	0.048868	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

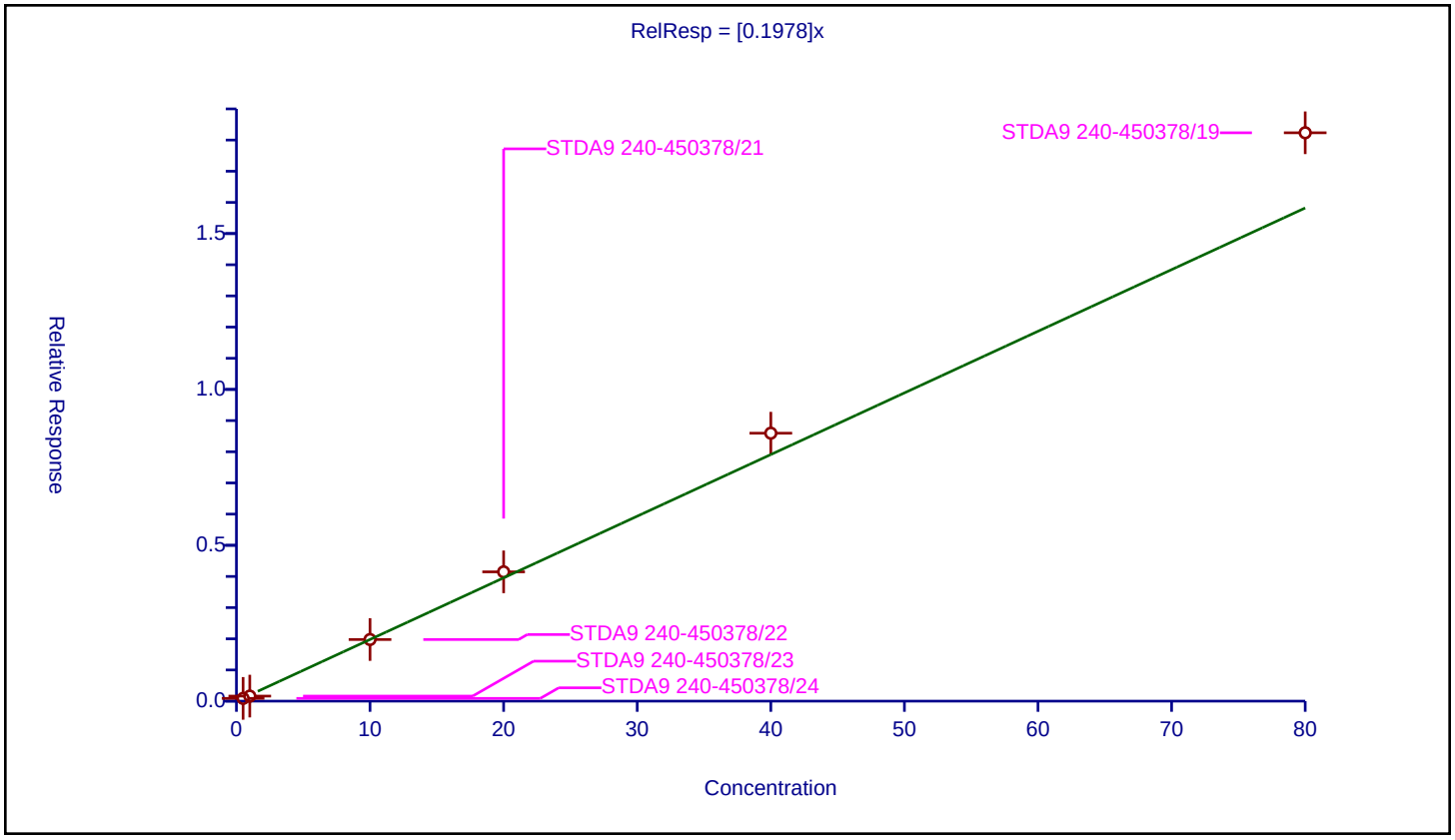
Curve Coefficients

Intercept:	0
Slope:	0.1978

Error Coefficients

Standard Error:	461000
Relative Standard Error:	12.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.088269	20.0	841069.0	0.176537	Y
2	STDA9 240-450378/23	1.0	0.162113	20.0	852493.0	0.162113	Y
3	STDA9 240-450378/22	10.0	1.977064	20.0	885960.0	0.197706	Y
4	STDA9 240-450378/21	20.0	4.148309	20.0	928653.0	0.207415	Y
5	STDA9 240-450378/20	40.0	8.596176	20.0	996485.0	0.214904	Y
6	STDA9 240-450378/19	80.0	18.233135	20.0	1001695.0	0.227914	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

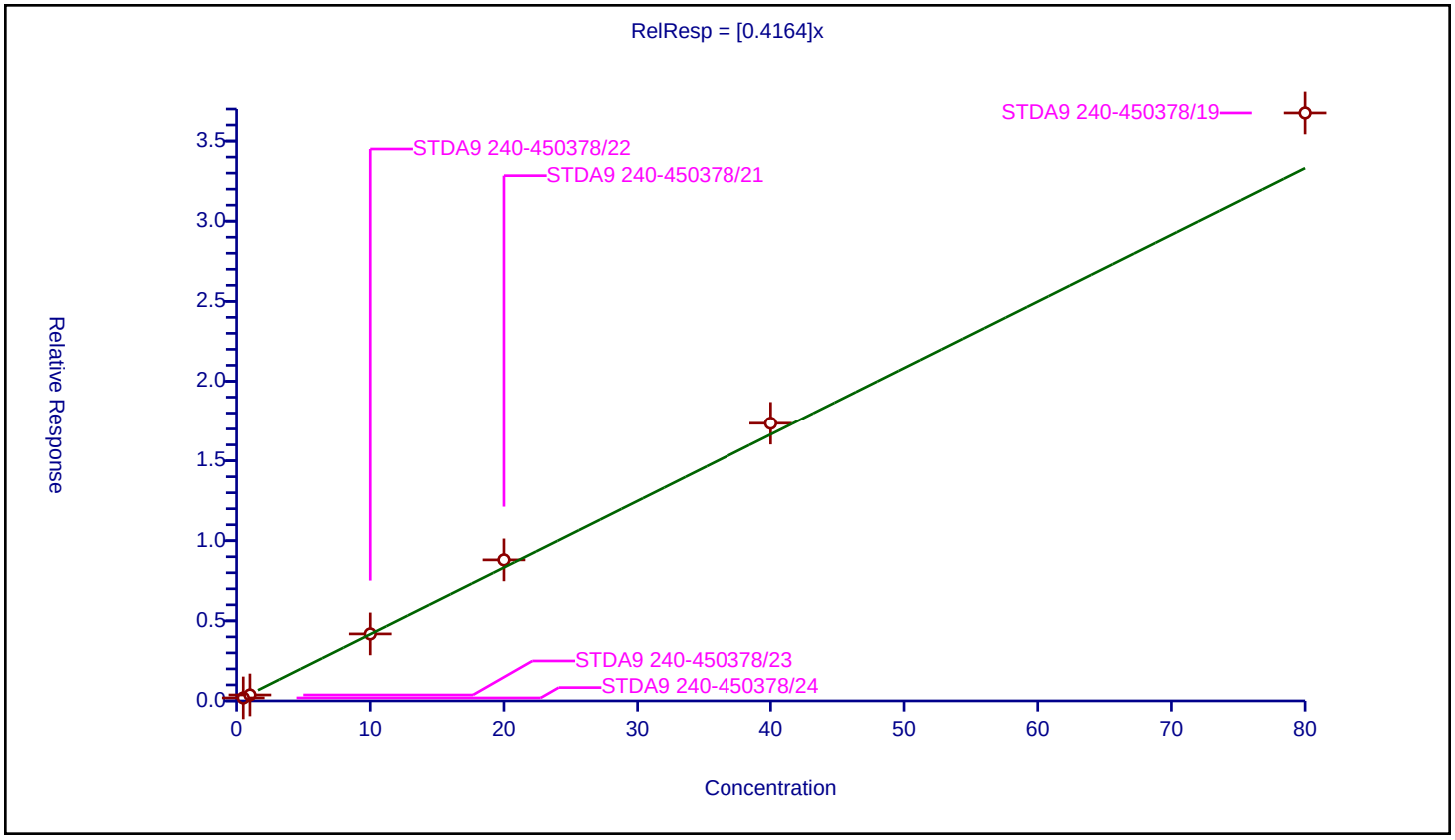
Curve Coefficients

Intercept:	0
Slope:	0.4164

Error Coefficients

Standard Error:	736000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.187098	20.0	682101.0	0.374197	Y
2	STDA9 240-450378/23	1.0	0.371873	20.0	694161.0	0.371873	Y
3	STDA9 240-450378/22	10.0	4.18613	20.0	721884.0	0.418613	Y
4	STDA9 240-450378/21	20.0	8.80516	20.0	745740.0	0.440258	Y
5	STDA9 240-450378/20	40.0	17.358577	20.0	782124.0	0.433964	Y
6	STDA9 240-450378/19	80.0	36.753457	20.0	791870.0	0.459418	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

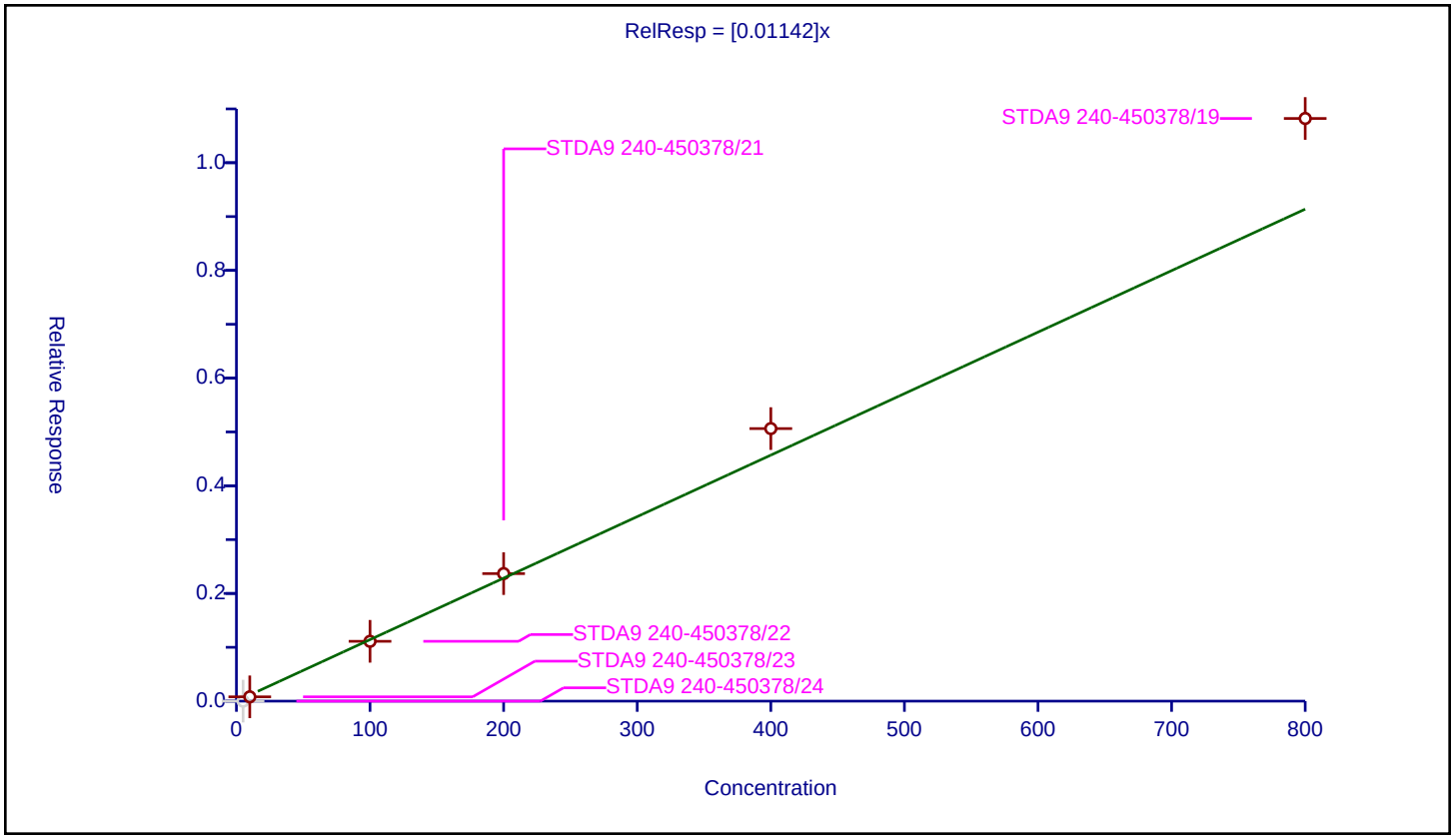
Curve Coefficients

Intercept:	0
Slope:	0.01142

Error Coefficients

Standard Error:	129000
Relative Standard Error:	18.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	5.0	0.0	20.0	374881.0	0.0	N
2	STDA9 240-450378/23	10.0	0.079749	20.0	375681.0	0.007975	Y
3	STDA9 240-450378/22	100.0	1.111317	20.0	384067.0	0.011113	Y
4	STDA9 240-450378/21	200.0	2.368671	20.0	396256.0	0.011843	Y
5	STDA9 240-450378/20	400.0	5.062189	20.0	417997.0	0.012655	Y
6	STDA9 240-450378/19	800.0	10.821754	20.0	423399.0	0.013527	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

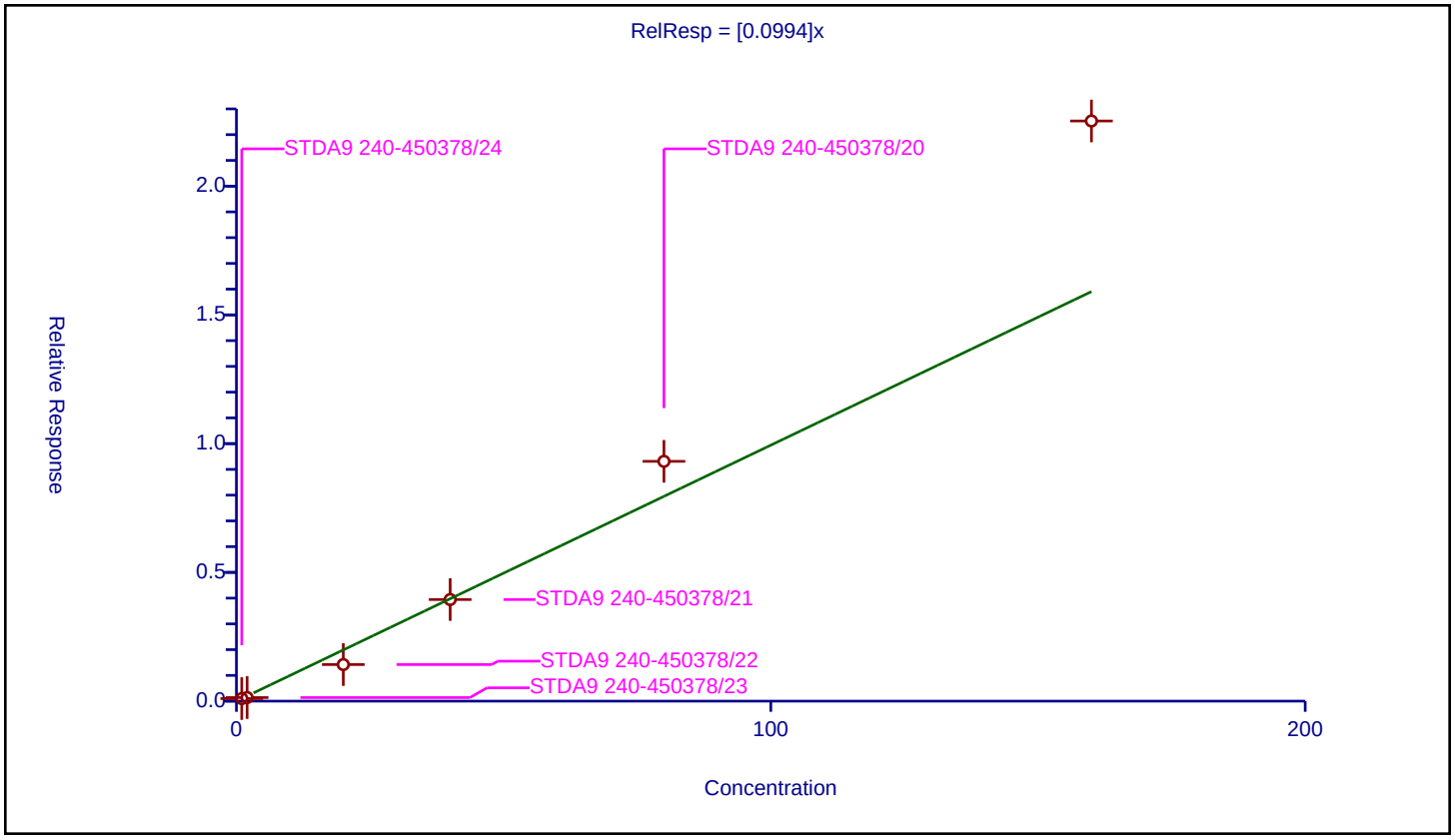
Curve Coefficients

Intercept:	0
Slope:	0.0994

Error Coefficients

Standard Error:	436000
Relative Standard Error:	27.4
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.921

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.099927	20.0	682101.0	0.099927	Y
2	STDA9 240-450378/23	2.0	0.139305	20.0	694161.0	0.069652	Y
3	STDA9 240-450378/22	20.0	1.420145	20.0	721884.0	0.071007	Y
4	STDA9 240-450378/21	40.0	3.945075	20.0	745740.0	0.098627	Y
5	STDA9 240-450378/20	80.0	9.312206	20.0	782124.0	0.116403	Y
6	STDA9 240-450378/19	160.0	22.530062	20.0	791870.0	0.140813	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

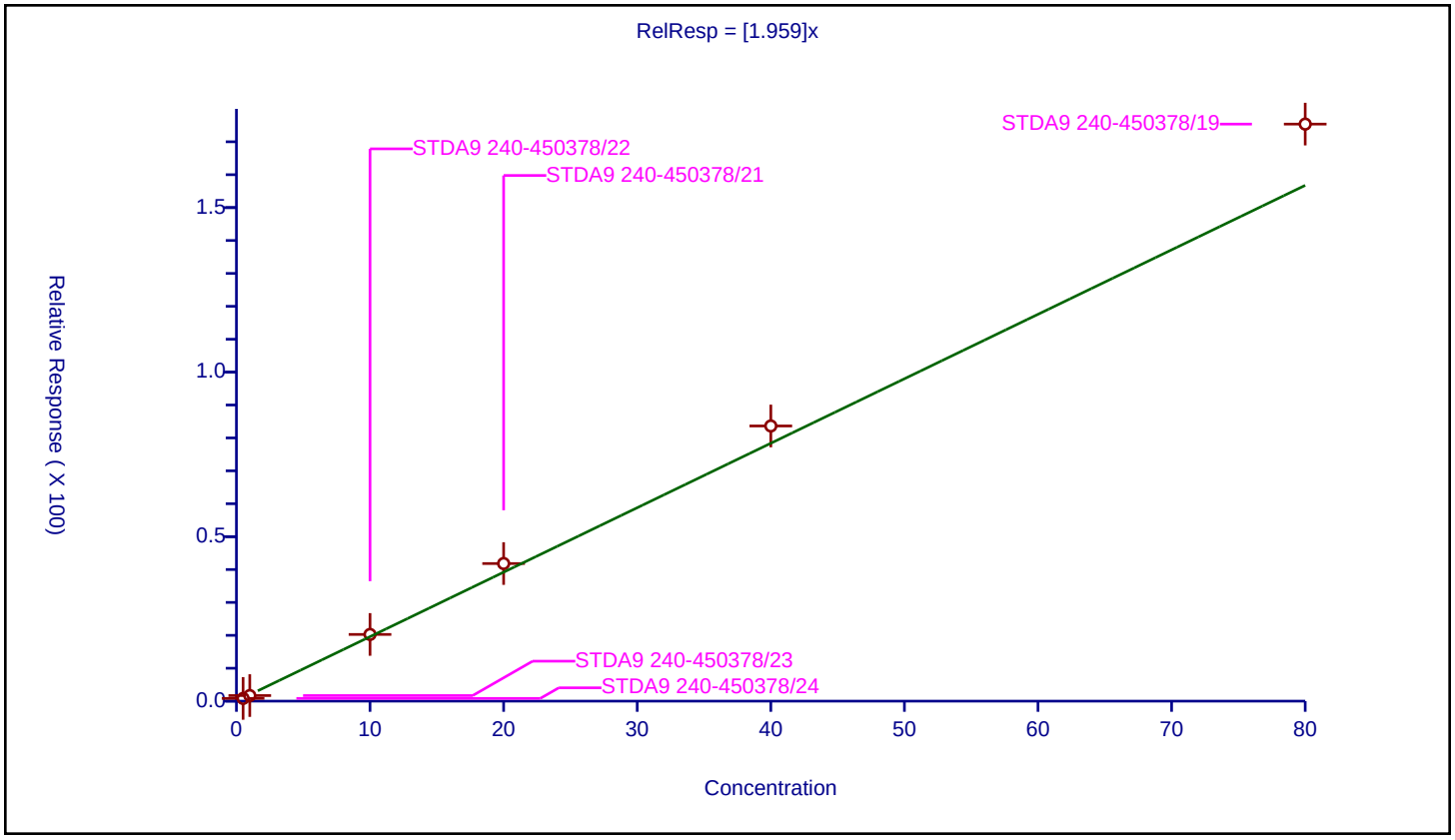
Curve Coefficients

Intercept:	0
Slope:	1.959

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.83013	20.0	374881.0	1.66026	Y
2	STDA9 240-450378/23	1.0	1.694949	20.0	375681.0	1.694949	Y
3	STDA9 240-450378/22	10.0	20.277452	20.0	384067.0	2.027745	Y
4	STDA9 240-450378/21	20.0	41.818471	20.0	396256.0	2.090924	Y
5	STDA9 240-450378/20	40.0	83.635385	20.0	417997.0	2.090885	Y
6	STDA9 240-450378/19	80.0	175.375851	20.0	423399.0	2.192198	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

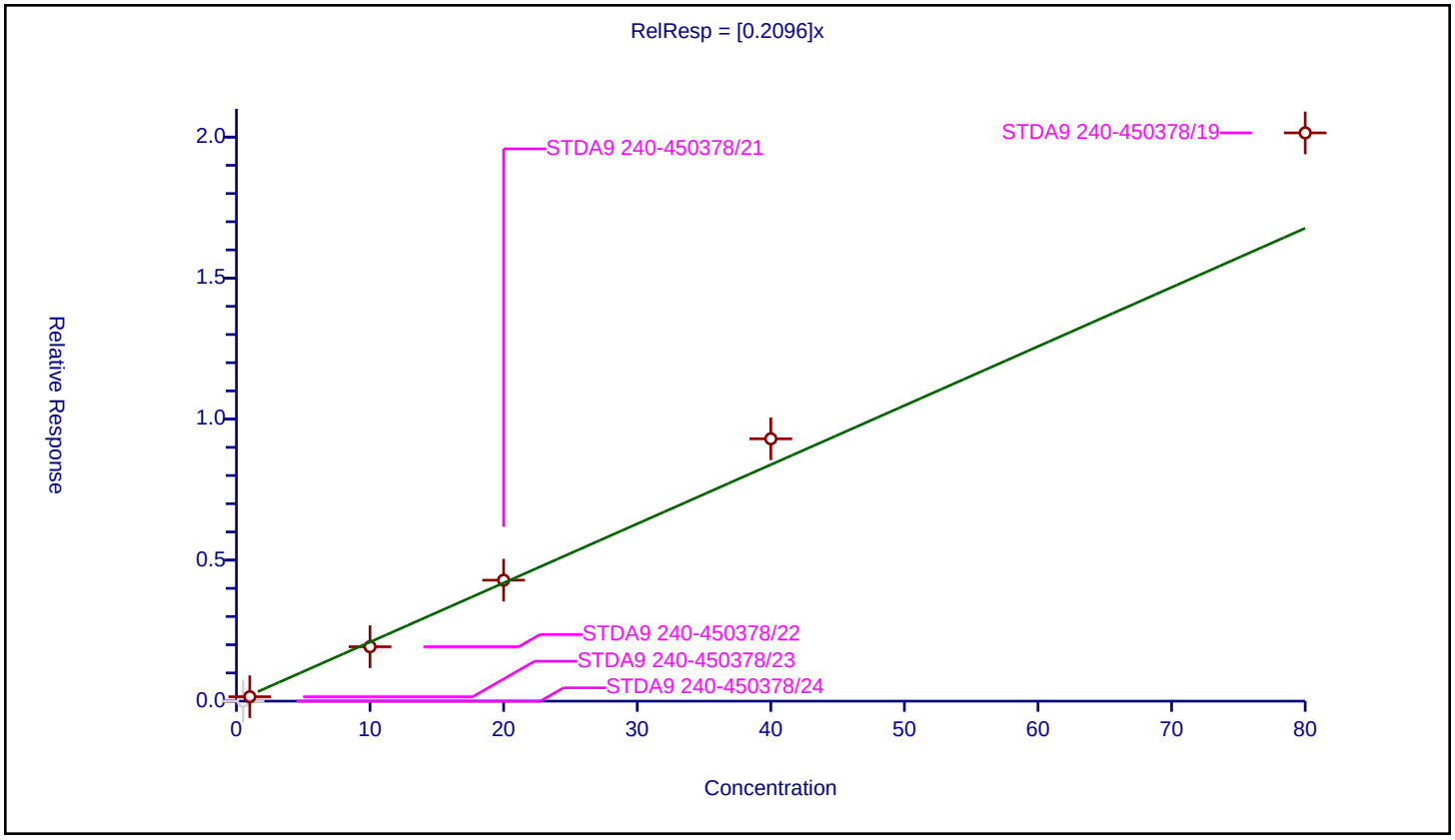
Curve Coefficients

Intercept:	0
Slope:	0.2096

Error Coefficients

Standard Error:	239000
Relative Standard Error:	17.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.0	20.0	374881.0	0.0	N
2	STDA9 240-450378/23	1.0	0.156196	20.0	375681.0	0.156196	Y
3	STDA9 240-450378/22	10.0	1.929195	20.0	384067.0	0.192919	Y
4	STDA9 240-450378/21	20.0	4.290307	20.0	396256.0	0.214515	Y
5	STDA9 240-450378/20	40.0	9.303177	20.0	417997.0	0.232579	Y
6	STDA9 240-450378/19	80.0	20.149221	20.0	423399.0	0.251865	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

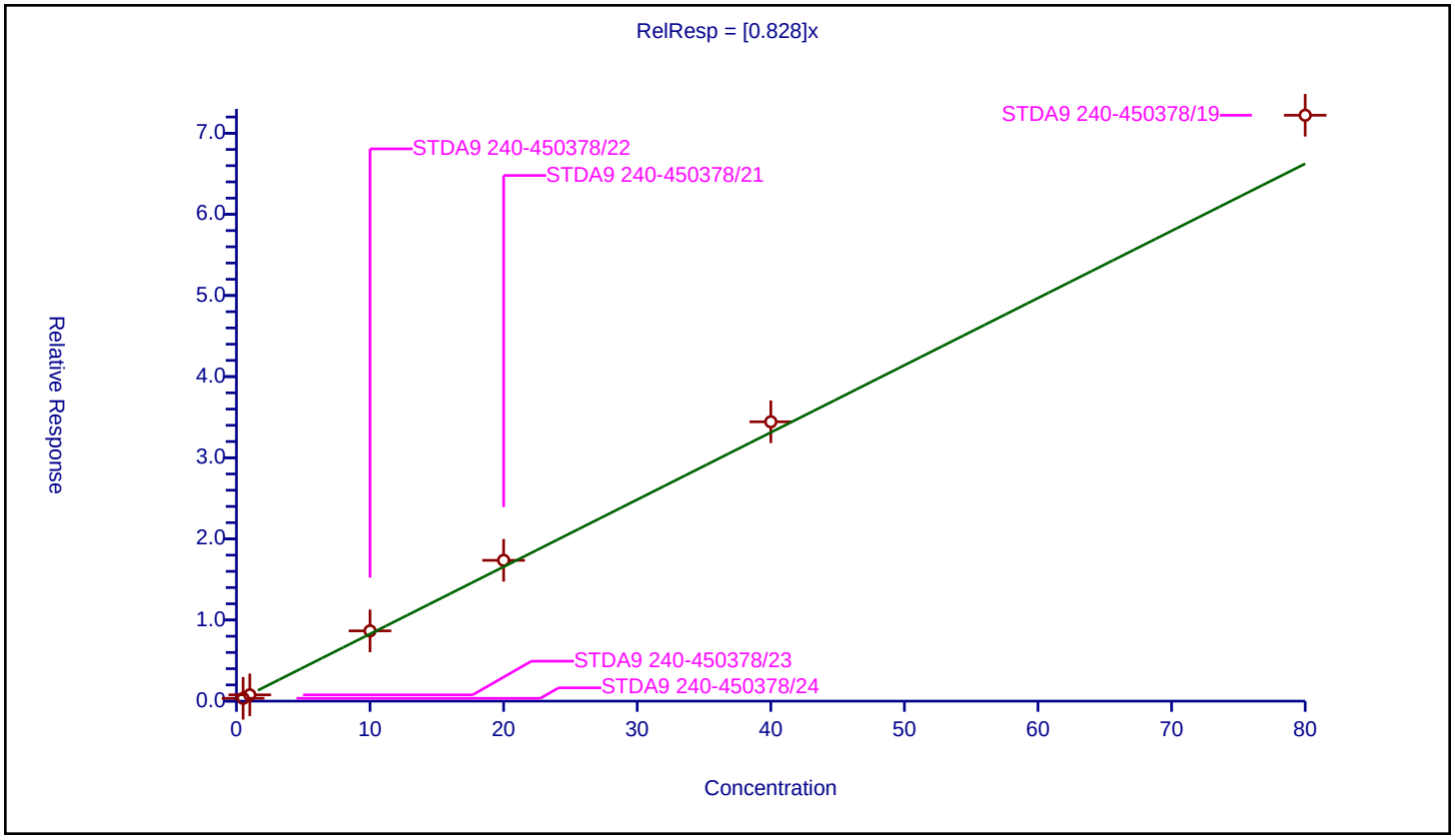
Curve Coefficients

Intercept:	0
Slope:	0.828

Error Coefficients

Standard Error:	775000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.34699	20.0	374881.0	0.69398	Y
2	STDA9 240-450378/23	1.0	0.77667	20.0	375681.0	0.77667	Y
3	STDA9 240-450378/22	10.0	8.661301	20.0	384067.0	0.86613	Y
4	STDA9 240-450378/21	20.0	17.359384	20.0	396256.0	0.867969	Y
5	STDA9 240-450378/20	40.0	34.433214	20.0	417997.0	0.86083	Y
6	STDA9 240-450378/19	80.0	72.216703	20.0	423399.0	0.902709	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

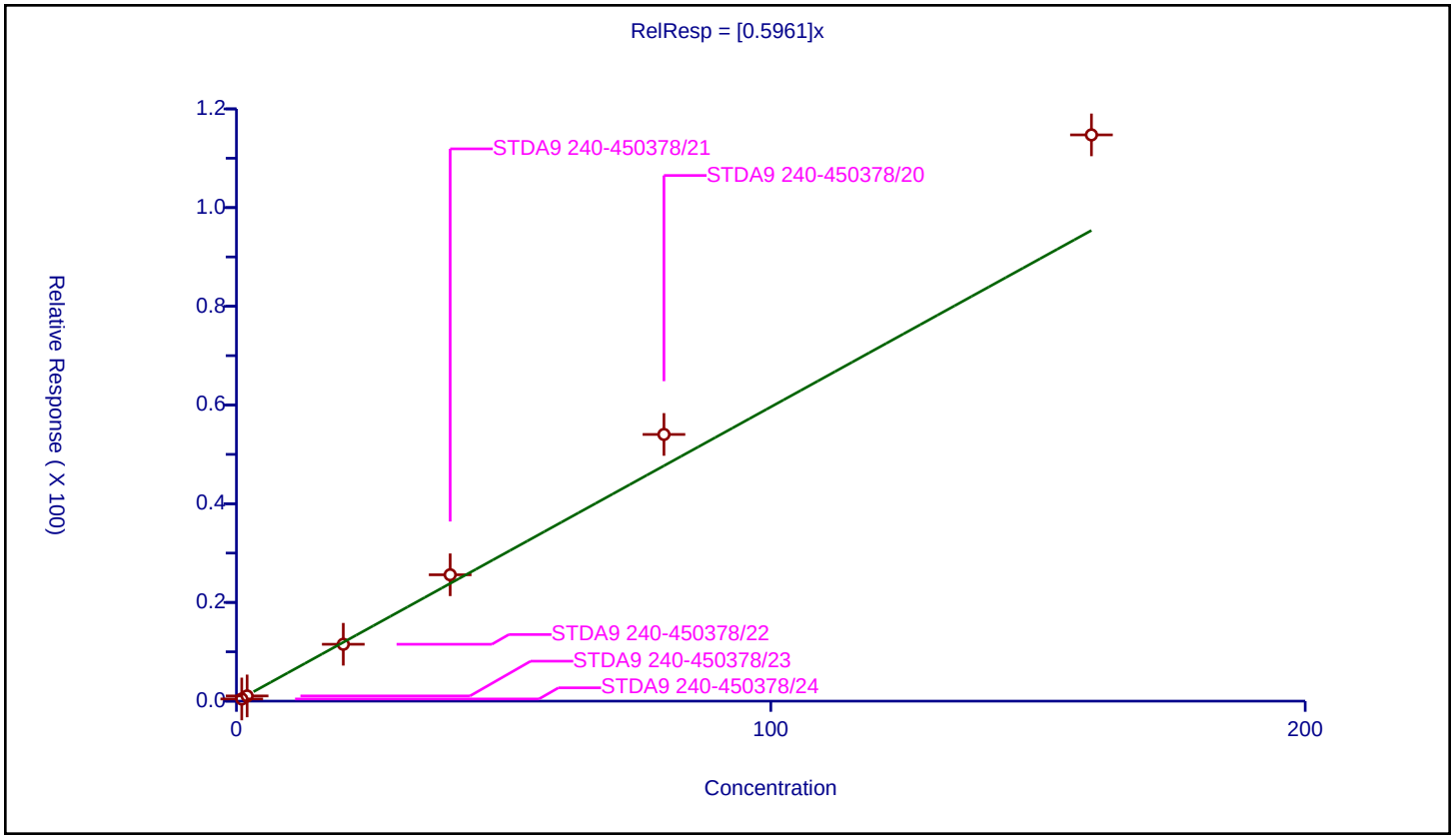
Curve Coefficients

Intercept:	0
Slope:	0.5961

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	17.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.441367	20.0	374881.0	0.441367	Y
2	STDA9 240-450378/23	2.0	1.052915	20.0	375681.0	0.526457	Y
3	STDA9 240-450378/22	20.0	11.522521	20.0	384067.0	0.576126	Y
4	STDA9 240-450378/21	40.0	25.602944	20.0	396256.0	0.640074	Y
5	STDA9 240-450378/20	80.0	54.036943	20.0	417997.0	0.675462	Y
6	STDA9 240-450378/19	160.0	114.735321	20.0	423399.0	0.717096	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

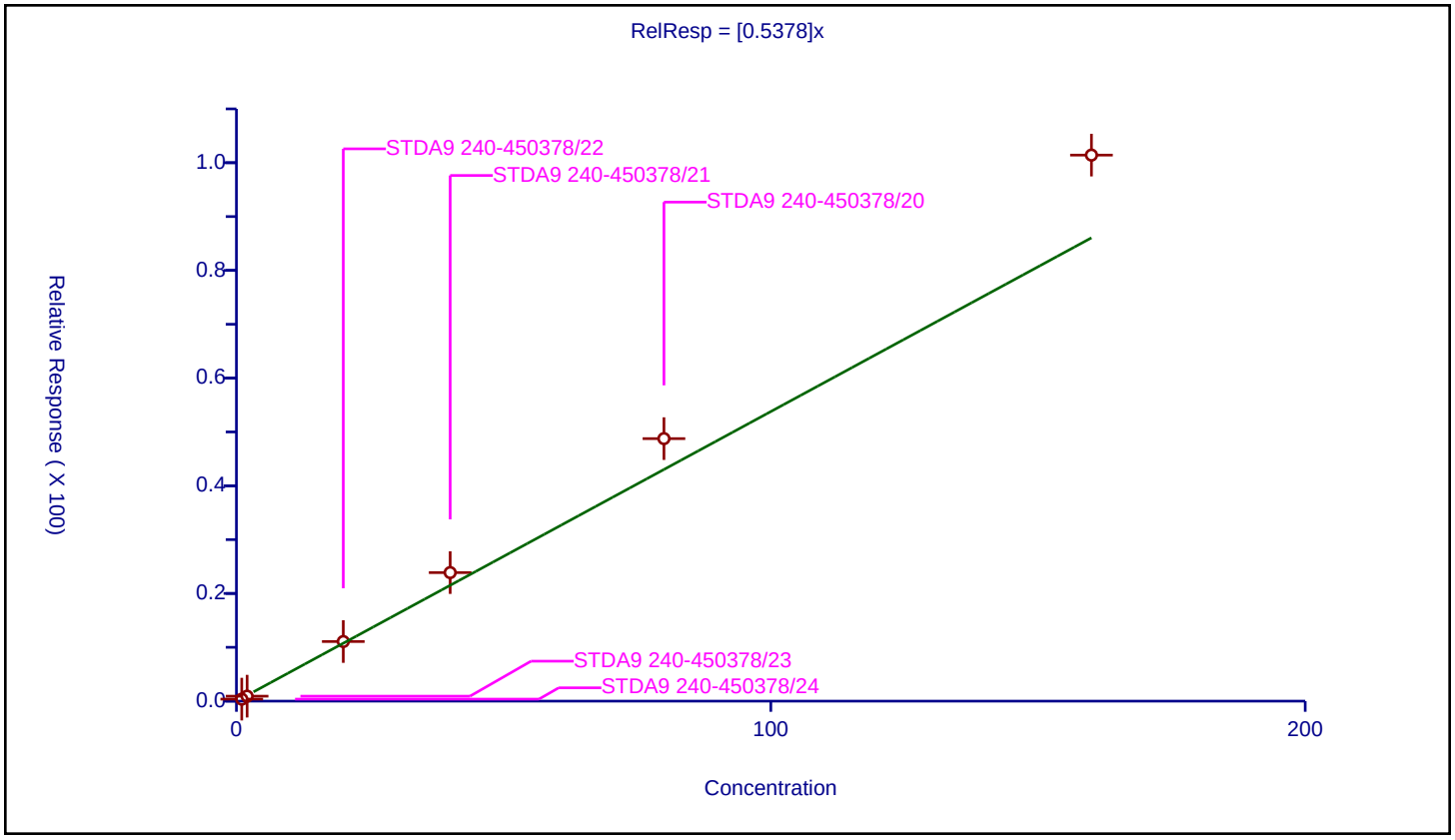
Curve Coefficients

Intercept:	0
Slope:	0.5378

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	18.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.371905	20.0	374881.0	0.371905	Y
2	STDA9 240-450378/23	2.0	0.922165	20.0	375681.0	0.461083	Y
3	STDA9 240-450378/22	20.0	11.073589	20.0	384067.0	0.553679	Y
4	STDA9 240-450378/21	40.0	23.877695	20.0	396256.0	0.596942	Y
5	STDA9 240-450378/20	80.0	48.759537	20.0	417997.0	0.609494	Y
6	STDA9 240-450378/19	160.0	101.417764	20.0	423399.0	0.633861	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-378870/25 Calibration Date: 04/30/2019 20:27

Instrument ID: A3UX12 Calib Start Date: 04/30/2019 14:10

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/30/2019 16:24

Lab File ID: U1269812.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2660	0.2521		0.0190	0.0200	-5.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2988	0.2907		0.0195	0.0200	-2.7	30.0
Toluene-d8 (Surr)	Ave	1.417	1.342		0.0189	0.0200	-5.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5219	0.4893		0.0188	0.0200	-6.2	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269812.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Apr-2019 20:27:30 ALS Bottle#: 19 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-025
Operator ID: 001904 Instrument ID: A3UX12
Sublist:

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 02-May-2019 12:03:16 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0316

First Level Reviewer: bosworthh Date: 02-May-2019 12:09:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1276838	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	84	890370	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.971	0.000	94	480538	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	95	321828	20.0	19.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	95	371155	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	1195200	20.0	18.9	
$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	94	435656	20.0	18.8	
26 Acetonitrile	41	2.942	2.942	0.000	99	705328	200.0	175.5	
37 Isopropyl ether	87	3.699	3.699	0.000	94	326682	20.0	19.0	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	89	580460	20.0	20.0	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	97	1042558	20.0	18.5	
43 Ethyl acetate	43	4.196	4.196	0.000	99	983592	40.0	42.1	
44 Propionitrile	54	4.208	4.208	0.000	99	919929	200.0	188.7	
45 Methacrylonitrile	41	4.326	4.326	0.000	92	3011956	200.0	190.9	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	98	1115344	20.0	19.3	
58 n-Butanol	56	5.344	5.344	0.000	85	586224	500.0	387.8	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	560775	20.0	22.9	
63 Methyl methacrylate	41	5.687	5.687	0.000	88	719329	40.0	44.2	
67 2-Nitropropane	41	6.042	6.030	0.012	99	180395	40.0	36.8	
79 n-Butyl acetate	43	7.202	7.202	0.000	97	630285	20.0	20.2	
82 1-Chlorohexane	91	7.746	7.746	0.000	77	509667	20.0	20.0	
91 Cyclohexanone	55	8.799	8.799	0.000	91	207270	200.0	166.3	
103 Pentachloroethane	167	9.616	9.604	0.012	90	414906	40.0	38.9	
109 1,2,3-Trimethylbenzene	105	10.042	10.042	0.000	98	1417952	20.0	20.0	
110 Benzyl chloride	91	10.136	10.136	0.000	98	938954	20.0	18.3	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	98	533529	20.0	17.6	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	93	1525808	40.0	25.6	

Reagents:

VMFASA9W_00228	Amount Added:	16.00	Units: uL	
vmDist_H2o_00144	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00003	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00080	Amount Added:	2.00	Units: uL	Run Reagent

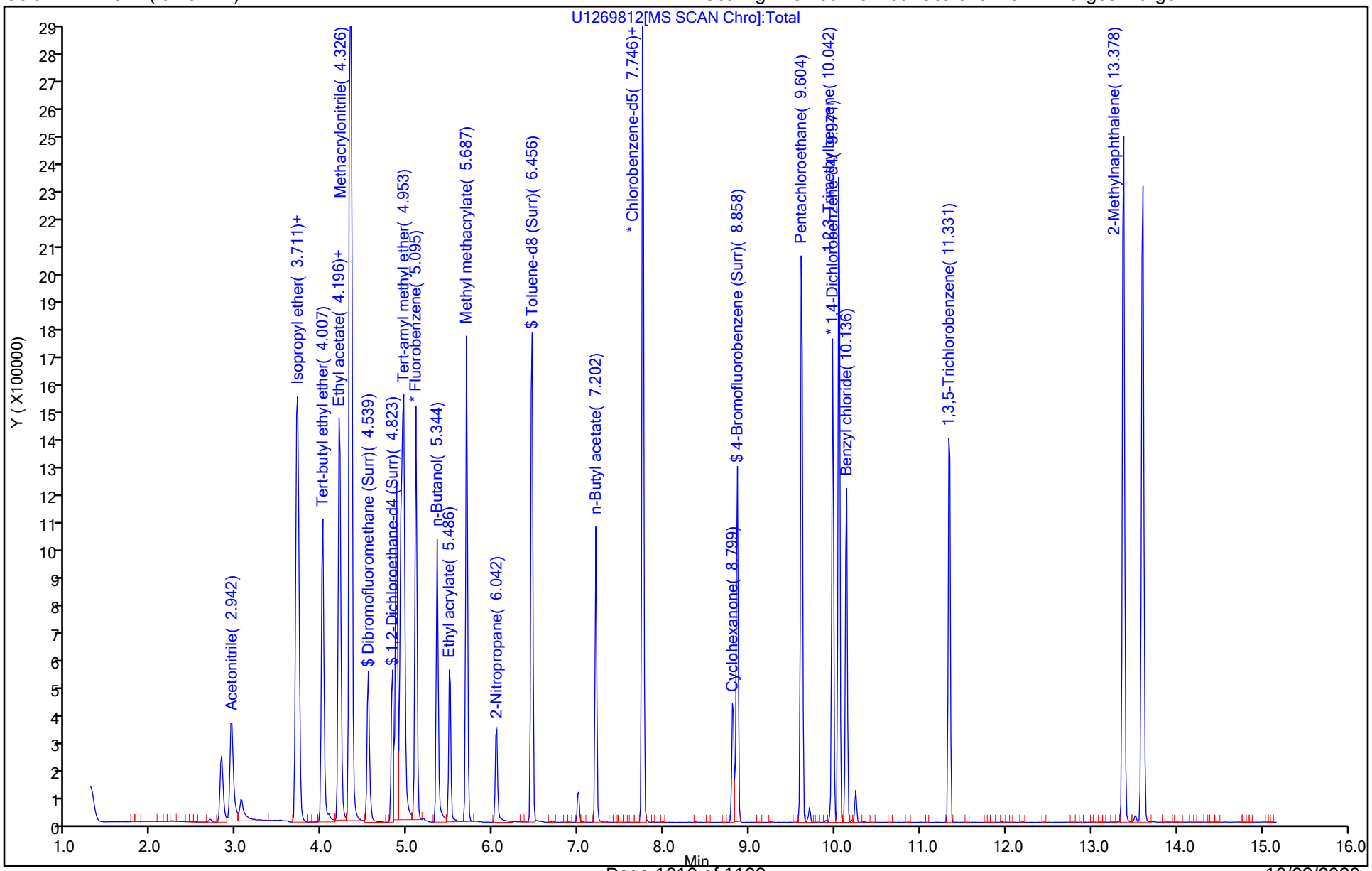
Report Date: 02-May-2019 12:09:34 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269812.D

Injection Date:	30-Apr-2019 20:27:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	ICV			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-378870/25 Calibration Date: 04/30/2019 20:27

Instrument ID: A3UX12 Calib Start Date: 04/30/2019 17:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/30/2019 20:05

Lab File ID: U1269812.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0552		0.175	0.200	-12.3	30.0
Diisopropyl ether	Ave	0.2698	0.2559		0.0190	0.0200	-5.2	30.0
2-Chloro-1,3-butadiene	Ave	0.4548	0.4546		0.0200	0.0200	-0.0	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.8827	0.8165		0.0185	0.0200	-7.5	30.0
Ethyl acetate	Ave	0.3663	0.3852		0.0421	0.0400	5.1	30.0
Propionitrile	Lin1		0.0720		0.189	0.200	-5.7	30.0
Methacrylonitrile	Ave	0.2471	0.2359		0.191	0.200	-4.5	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.9065	0.8735		0.0193	0.0200	-3.6	30.0
n-Butanol	Ave	0.0237	0.0184		0.388	0.500	-22.4	30.0
Ethyl acrylate	Ave	0.3838	0.4392		0.0229	0.0200	14.4	30.0
Methyl methacrylate	Ave	0.2550	0.2817		0.0442	0.0400	10.4	30.0
2-Nitropropane	Ave	0.0769	0.0706		0.0368	0.0400	-8.1	30.0
n-Butyl acetate	Ave	0.7023	0.7079		0.0202	0.0200	0.8	30.0
1-Chlorohexane	Ave	0.5721	0.5724		0.0200	0.0200	0.0	30.0
Cyclohexanone	Lin1		0.0233		0.166	0.200	-16.8	30.0
Pentachloroethane	Ave	0.4435	0.4317		0.0389	0.0400	-2.7	30.0
1,2,3-Trimethylbenzene	Ave	2.954	2.951		0.0200	0.0200	-0.1	30.0
Benzyl chloride	Ave	2.132	1.954		0.0183	0.0200	-8.4	30.0
1,3,5-Trichlorobenzene	Ave	1.258	1.110		0.0176	0.0200	-11.8	30.0
2-Methylnaphthalene	Ave	2.484	1.588		0.0256	0.0400	-36.1*	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269812.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Apr-2019 20:27:30 ALS Bottle#: 19 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-025
Operator ID: 001904 Instrument ID: A3UX12
Sublist:

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 02-May-2019 12:03:16 Calib Date: 30-Apr-2019 20:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269811.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0316

First Level Reviewer: bosworthh Date: 02-May-2019 12:09:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1276838	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	84	890370	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.971	0.000	94	480538	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	95	321828	20.0	19.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	95	371155	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	1195200	20.0	18.9	
$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	94	435656	20.0	18.8	
26 Acetonitrile	41	2.942	2.942	0.000	99	705328	200.0	175.5	
37 Isopropyl ether	87	3.699	3.699	0.000	94	326682	20.0	19.0	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	89	580460	20.0	20.0	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	97	1042558	20.0	18.5	
43 Ethyl acetate	43	4.196	4.196	0.000	99	983592	40.0	42.1	
44 Propionitrile	54	4.208	4.208	0.000	99	919929	200.0	188.7	
45 Methacrylonitrile	41	4.326	4.326	0.000	92	3011956	200.0	190.9	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	98	1115344	20.0	19.3	
58 n-Butanol	56	5.344	5.344	0.000	85	586224	500.0	387.8	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	560775	20.0	22.9	
63 Methyl methacrylate	41	5.687	5.687	0.000	88	719329	40.0	44.2	
67 2-Nitropropane	41	6.042	6.030	0.012	99	180395	40.0	36.8	
79 n-Butyl acetate	43	7.202	7.202	0.000	97	630285	20.0	20.2	
82 1-Chlorohexane	91	7.746	7.746	0.000	77	509667	20.0	20.0	
91 Cyclohexanone	55	8.799	8.799	0.000	91	207270	200.0	166.3	
103 Pentachloroethane	167	9.616	9.604	0.012	90	414906	40.0	38.9	
109 1,2,3-Trimethylbenzene	105	10.042	10.042	0.000	98	1417952	20.0	20.0	
110 Benzyl chloride	91	10.136	10.136	0.000	98	938954	20.0	18.3	
114 1,3,5-Trichlorobenzene	180	11.343	11.343	0.000	98	533529	20.0	17.6	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	93	1525808	40.0	25.6	

Reagents:

VMFASA9W_00228	Amount Added:	16.00	Units: uL	
vmDist_H2o_00144	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00003	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00080	Amount Added:	2.00	Units: uL	Run Reagent

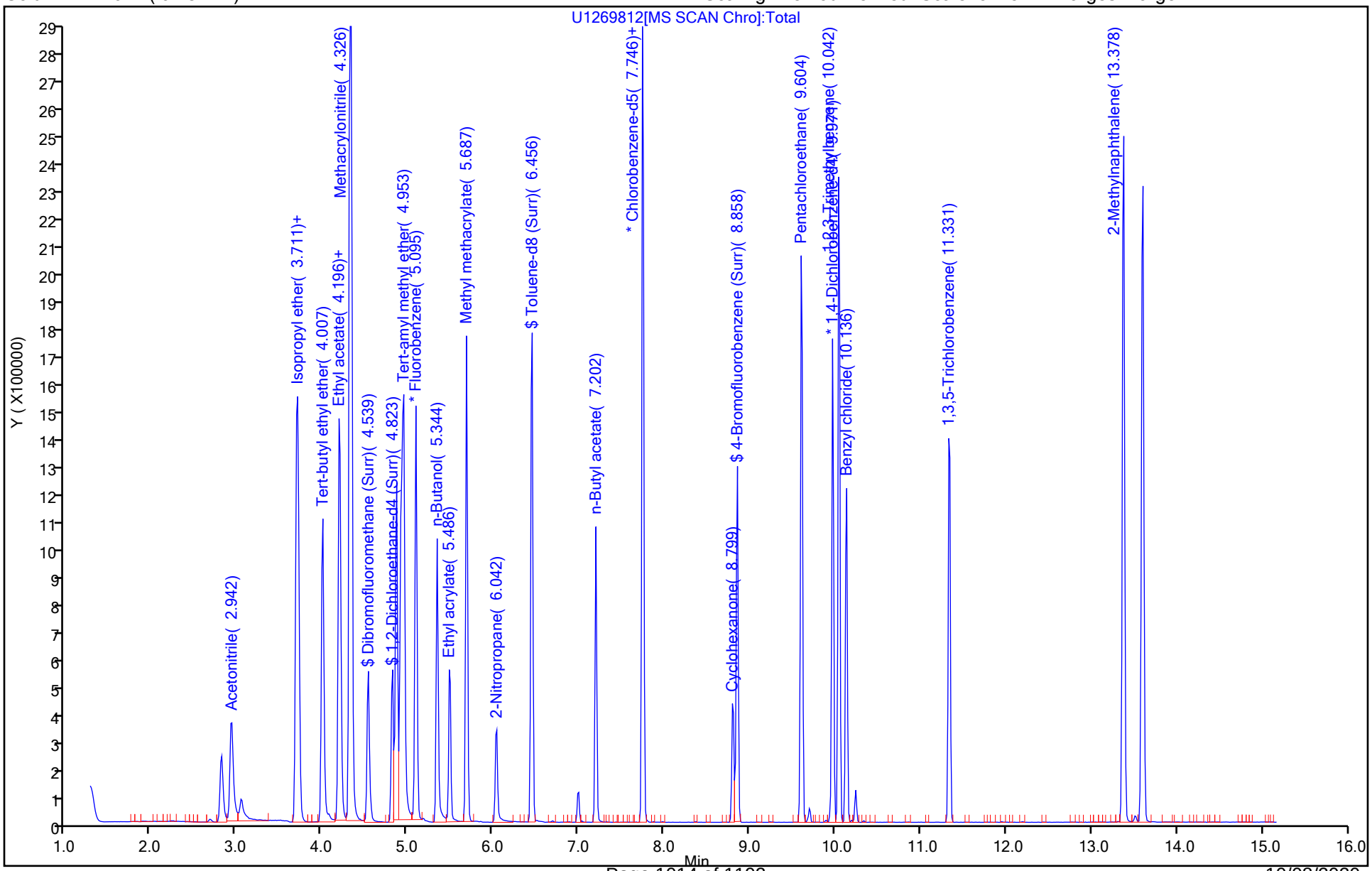
Report Date: 02-May-2019 12:09:34 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269812.D

Injection Date:	30-Apr-2019 20:27:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	ICV			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-442963/17 Calibration Date: 07/16/2020 20:43

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1279121.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3124	0.3509	0.1000	0.0225	0.0200	12.3	30.0
Chloromethane	Ave	0.5311	0.5904	0.1000	0.0222	0.0200	11.2	30.0
Butadiene	Ave	0.3681	0.4281		0.0233	0.0200	16.3	30.0
Vinyl chloride	Ave	0.3743	0.4391	0.1000	0.0235	0.0200	17.3	30.0
Bromomethane	Ave	0.2481	0.2751	0.0500	0.0222	0.0200	10.9	30.0
Chloroethane	Ave	0.2724	0.3111	0.0500	0.0228	0.0200	14.2	30.0
Dichlorofluoromethane	Ave	0.5688	0.6178		0.0217	0.0200	8.6	30.0
Trichlorofluoromethane	Ave	0.4377	0.4814	0.1000	0.0220	0.0200	10.0	30.0
Ethyl ether	Ave	0.3037	0.3304		0.0218	0.0200	8.8	30.0
Acrolein	Ave	0.0262	0.0321		0.123	0.100	22.6	30.0
1,1-Dichloroethene	Ave	0.4021	0.4100	0.1000	0.0204	0.0200	2.0	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2362	0.2354	0.0500	0.0199	0.0200	-0.3	30.0
Acetone	Ave	0.1273	0.1438	0.0100	0.0452	0.0400	12.9	50.0
Iodomethane	Ave	0.4091	0.4420		0.0216	0.0200	8.0	30.0
Carbon disulfide	Ave	0.8097	0.8205	0.1000	0.0203	0.0200	1.3	30.0
3-Chloro-1-propene	Ave	0.4509	0.4650		0.0206	0.0200	3.1	30.0
Methyl acetate	Ave	0.3065	0.3473	0.1000	0.0453	0.0400	13.3	50.0
Methylene Chloride	Ave	0.3674	0.4041	0.1000	0.0220	0.0200	10.0	50.0
tert-Butyl alcohol	Ave	0.0380	0.0557		0.293	0.200	46.7*	30.0
Acrylonitrile	Ave	0.1589	0.1738		0.219	0.200	9.4	30.0
trans-1,2-Dichloroethene	Ave	0.3859	0.4140	0.1000	0.0215	0.0200	7.3	30.0
Methyl tert-butyl ether	Ave	0.8861	0.9183	0.1000	0.0207	0.0200	3.6	30.0
Hexane	Ave	0.4275	0.4675		0.0219	0.0200	9.4	30.0
1,1-Dichloroethane	Ave	0.5143	0.6173	0.2000	0.0240	0.0200	20.0	30.0
Vinyl acetate	Ave	0.7246	0.7980		0.0220	0.0200	10.1	30.0
2,2-Dichloropropane	Ave	0.3526	0.3801		0.0216	0.0200	7.8	30.0
cis-1,2-Dichloroethene	Ave	0.3599	0.3890	0.1000	0.0216	0.0200	8.1	30.0
2-Butanone	Ave	0.0631	0.0726	0.0100	0.0460	0.0400	15.0	50.0
Bromochloromethane	Ave	0.2926	0.3171		0.0217	0.0200	8.4	30.0
Tetrahydrofuran	Ave	0.1611	0.1994		0.0495	0.0400	23.8	30.0
Chloroform	Ave	0.5092	0.5736	0.2000	0.0225	0.0200	12.6	30.0
1,1,1-Trichloroethane	Ave	0.4037	0.4657	0.1000	0.0231	0.0200	15.3	30.0
Cyclohexane	Ave	0.4779	0.5352	0.1000	0.0224	0.0200	12.0	30.0
1,1-Dichloropropene	Ave	0.4108	0.4615		0.0225	0.0200	12.3	30.0
Carbon tetrachloride	Ave	0.3288	0.3656	0.1000	0.0222	0.0200	11.2	30.0
Isobutyl alcohol	Ave	0.0161	0.0230		0.714	0.500	42.7*	30.0
Benzene	Ave	1.228	1.390	0.5000	0.0226	0.0200	13.2	30.0
1,2-Dichloroethane	Ave	0.3989	0.4554	0.1000	0.0228	0.0200	14.2	30.0
n-Heptane	Lin1		0.2071		0.0187	0.0200	-6.5	30.0
Trichloroethene	Ave	0.2776	0.2927	0.1500	0.0211	0.0200	5.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-442963/17 Calibration Date: 07/16/2020 20:43

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1279121.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4860	0.4602	0.1000	0.0189	0.0200	-5.3	30.0
1,2-Dichloropropane	Ave	0.2651	0.2750	0.1000	0.0207	0.0200	3.7	30.0
Dibromomethane	Ave	0.1882	0.2021		0.0215	0.0200	7.4	30.0
1,4-Dioxane	Ave	0.0035	0.0039		0.454	0.400	13.5	50.0
Bromodichloromethane	Ave	0.3312	0.3543	0.1500	0.0214	0.0200	7.0	30.0
2-Chloroethyl vinyl ether	Ave	0.1997	0.2025		0.0203	0.0200	1.4	30.0
cis-1,3-Dichloropropene	Ave	0.4197	0.4401	0.1500	0.0210	0.0200	4.9	50.0
4-Methyl-2-pentanone	Ave	0.4341	0.4137	0.0500	0.0381	0.0400	-4.7	50.0
Toluene	Ave	1.659	1.351	0.4000	0.0163	0.0200	-18.6	30.0
trans-1,3-Dichloropropene	Ave	0.5377	0.4494	0.1000	0.0167	0.0200	-16.4	30.0
Ethyl methacrylate	Ave	0.5422	0.4760		0.0176	0.0200	-12.2	30.0
1,1,2-Trichloroethane	Ave	0.3249	0.2775	0.1000	0.0171	0.0200	-14.6	30.0
Tetrachloroethene	Ave	0.3971	0.3339	0.1500	0.0168	0.0200	-15.9	30.0
1,3-Dichloropropane	Ave	0.6096	0.5170		0.0170	0.0200	-15.2	30.0
2-Hexanone	Ave	0.4350	0.4478	0.0500	0.0412	0.0400	2.9	50.0
Dibromochloromethane	Ave	0.3194	0.3179		0.0199	0.0200	-0.5	30.0
1,2-Dibromoethane	Ave	0.3359	0.3434		0.0204	0.0200	2.2	30.0
Chlorobenzene	Ave	0.9701	0.998	0.3000	0.0206	0.0200	2.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3372		0.0204	0.0200	2.0	30.0
Ethylbenzene	Ave	0.5327	0.5515		0.0207	0.0200	3.5	30.0
m-Xylene & p-Xylene	Ave	0.6598	0.6862		0.0208	0.0200	4.0	30.0
o-Xylene	Ave	0.6795	0.6513		0.0192	0.0200	-4.1	30.0
Styrene	Ave	1.091	1.089	0.3000	0.0200	0.0200	-0.2	30.0
Bromoform	Ave	0.2201	0.2169	0.1000	0.0197	0.0200	-1.5	30.0
Isopropylbenzene	Ave	1.703	1.642	0.1000	0.0193	0.0200	-3.6	30.0
1,1,2,2-Tetrachloroethane	Ave	1.000	1.064	0.3000	0.0213	0.0200	6.4	30.0
Bromobenzene	Ave	0.7816	0.8109		0.0207	0.0200	3.7	30.0
1,2,3-Trichloropropane	Ave	0.3449	0.3582		0.0208	0.0200	3.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2927	0.3519		0.0240	0.0200	20.2	30.0
n-Propylbenzene	Ave	0.8506	0.9062		0.0213	0.0200	6.5	30.0
2-Chlorotoluene	Ave	0.7510	0.7708		0.0205	0.0200	2.6	30.0
1,3,5-Trimethylbenzene	Ave	2.508	2.720		0.0217	0.0200	8.5	30.0
4-Chlorotoluene	Ave	0.7704	0.7927		0.0206	0.0200	2.9	30.0
tert-Butylbenzene	Ave	2.195	2.312		0.0211	0.0200	5.3	30.0
1,2,4-Trimethylbenzene	Ave	2.634	2.787		0.0212	0.0200	5.8	30.0
sec-Butylbenzene	Ave	3.184	3.288		0.0207	0.0200	3.3	30.0
1,3-Dichlorobenzene	Ave	1.484	1.505	0.6000	0.0203	0.0200	1.4	30.0
p-Isopropyltoluene	Ave	2.648	2.880		0.0218	0.0200	8.8	30.0
1,4-Dichlorobenzene	Ave	1.537	1.557	0.5000	0.0203	0.0200	1.3	30.0
n-Butylbenzene	Ave	2.220	2.439		0.0220	0.0200	9.8	30.0
1,2-Dichlorobenzene	Ave	1.473	1.461	0.4000	0.0198	0.0200	-0.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-442963/17 Calibration Date: 07/16/2020 20:43

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1279121.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2336	0.2648	0.0500	0.0227	0.0200	13.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8111	0.9289	0.2000	0.0229	0.0200	14.5	50.0
Hexachlorobutadiene	Ave	0.3104	0.3818		0.0246	0.0200	23.0	50.0
Naphthalene	Ave	2.686	3.079		0.0229	0.0200	14.6	50.0
1,2,3-Trichlorobenzene	Ave	0.7472	0.8510		0.0228	0.0200	13.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2655	0.2811		0.0212	0.0200	5.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3249	0.3526		0.0217	0.0200	8.5	30.0
Toluene-d8 (Surr)	Ave	1.353	1.134		0.0168	0.0200	-16.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4632	0.4776		0.0206	0.0200	3.1	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279121.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 16-Jul-2020 20:43:30 ALS Bottle#: 13 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-017
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub56

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Jul-2020 16:45:48 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1036

First Level Reviewer: bosworthh Date: 17-Jul-2020 16:59:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	993337	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	838058	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.000	92	407737	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	279224	20.0	21.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	97	350252	20.0	21.7	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	949955	20.0	16.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	95	400258	20.0	20.6	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	348544	20.0	22.5	
10 Chloromethane	50	1.605	1.605	0.000	99	586447	20.0	22.2	
11 Butadiene	54	1.652	1.652	0.000	88	425236	20.0	23.3	
12 Vinyl chloride	62	1.699	1.687	0.012	98	436198	20.0	23.5	
14 Bromomethane	94	1.936	1.936	0.000	91	273299	20.0	22.2	
15 Chloroethane	64	1.995	1.995	0.000	100	309023	20.0	22.8	
16 Dichlorofluoromethane	67	2.184	2.184	0.000	97	613723	20.0	21.7	
17 Trichlorofluoromethane	101	2.184	2.184	0.000	63	478218	20.0	22.0	
19 Ethyl ether	59	2.433	2.445	-0.012	92	328196	20.0	21.8	
20 Acrolein	56	2.551	2.563	-0.012	99	159396	100.0	122.6	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	98	407247	20.0	20.4	
22 112TCTFE	101	2.670	2.670	0.000	94	233841	20.0	19.9	
23 Acetone	43	2.693	2.693	0.000	100	285678	40.0	45.2	
24 Iodomethane	142	2.764	2.776	-0.012	98	439011	20.0	21.6	
25 Carbon disulfide	76	2.823	2.823	0.000	100	815013	20.0	20.3	
27 3-Chloro-1-propene	41	2.954	2.954	0.000	89	461947	20.0	20.6	
28 Methyl acetate	43	2.977	2.977	0.000	97	689875	40.0	45.3	
29 Methylene Chloride	49	3.060	3.060	0.000	93	401453	20.0	22.0	
30 2-Methyl-2-propanol	59	3.167	3.167	0.000	99	553660	200.0	293.5	
31 Acrylonitrile	53	3.273	3.285	-0.012	99	1725957	200.0	218.8	
32 trans-1,2-Dichloroethene	61	3.285	3.297	-0.012	67	411242	20.0	21.5	
33 Methyl tert-butyl ether	73	3.297	3.297	0.000	96	912225	20.0	20.7	
34 Hexane	57	3.522	3.522	0.000	91	464381	20.0	21.9	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	613203	20.0	24.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.699	-0.012	97	792663	20.0	22.0	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	83	386440	20.0	21.6	
40 2,2-Dichloropropane	77	4.137	4.137	0.000	60	377531	20.0	21.6	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	100	144149	40.0	46.0	
46 Chlorobromomethane	49	4.338	4.338	0.000	97	314975	20.0	21.7	
47 Tetrahydrofuran	42	4.374	4.374	0.000	88	396167	40.0	49.5	
48 Chloroform	83	4.397	4.409	-0.012	94	569805	20.0	22.5	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	462552	20.0	23.1	
50 Cyclohexane	84	4.598	4.598	0.000	91	531634	20.0	22.4	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	94	458449	20.0	22.5	
52 Carbon tetrachloride	117	4.693	4.693	0.000	77	363141	20.0	22.2	
53 Isobutyl alcohol	41	4.788	4.788	0.000	95	571724	500.0	713.6	
54 Benzene	78	4.871	4.870	0.001	96	1380254	20.0	22.6	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	452321	20.0	22.8	
57 n-Heptane	57	5.072	5.083	-0.011	90	205767	20.0	18.7	
59 Trichloroethene	130	5.403	5.403	0.000	96	290757	20.0	21.1	
61 Methylcyclohexane	83	5.569	5.569	0.000	88	457177	20.0	18.9	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	95	273216	20.0	20.7	
65 1,4-Dioxane	88	5.711	5.711	0.000	92	77958	400.0	453.8	
64 Dibromomethane	174	5.699	5.711	-0.012	94	200761	20.0	21.5	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	351960	20.0	21.4	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	201159	20.0	20.3	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	437123	20.0	21.0	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	95	821820	40.0	38.1	
71 Toluene	91	6.515	6.515	0.000	99	1132493	20.0	16.3	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	95	376655	20.0	16.7	
74 Ethyl methacrylate	69	6.776	6.776	0.000	90	398944	20.0	17.6	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	93	232540	20.0	17.1	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	279828	20.0	16.8	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	433260	20.0	17.0	
78 2-Hexanone	43	7.083	7.095	-0.012	96	750568	40.0	41.2	
80 Chlorodibromomethane	129	7.225	7.225	0.000	90	266384	20.0	19.9	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	287765	20.0	20.4	
83 Chlorobenzene	112	7.781	7.781	0.000	95	836668	20.0	20.6	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	94	282602	20.0	20.4	
85 Ethylbenzene	106	7.876	7.876	0.000	98	462200	20.0	20.7	
86 m-Xylene & p-Xylene	106	7.983	7.983	0.000	99	575048	20.0	20.8	
87 o-Xylene	106	8.361	8.361	0.000	94	545846	20.0	19.2	
88 Styrene	104	8.373	8.373	0.000	96	912644	20.0	20.0	
89 Bromoform	173	8.551	8.551	0.000	97	181797	20.0	19.7	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	1376423	20.0	19.3	
92 Bromobenzene	156	9.000	9.000	0.000	94	330644	20.0	20.7	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	84	433631	20.0	21.3	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	85	146054	20.0	20.8	
95 trans-1,4-Dichloro-2-butene	53	9.048	9.048	0.000	92	143465	20.0	24.0	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	369474	20.0	21.3	
97 2-Chlorotoluene	126	9.190	9.178	0.012	97	314297	20.0	20.5	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	1109190	20.0	21.7	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	323205	20.0	20.6	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	942757	20.0	21.1	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	1136160	20.0	21.2	
105 sec-Butylbenzene	105	9.793	9.793	0.000	95	1340543	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	613552	20.0	20.3	
107 4-Isopropyltoluene	119	9.935	9.947	-0.012	97	1174175	20.0	21.8	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	94	634809	20.0	20.3	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	994318	20.0	22.0	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	97	595587	20.0	19.8	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	84	107973	20.0	22.7	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	94	378752	20.0	22.9	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	155689	20.0	24.6	
117 Naphthalene	128	12.195	12.195	0.000	97	1255549	20.0	22.9	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	95	346971	20.0	22.8	
S 124 Trihalomethanes, Total	1				0		80.0	83.5	
S 125 Total BTEX	1				0		100.0	99.6	
S 128 Xylenes, Total	106				0		40.0	40.0	

Reagents:

vmfasgw_00367	Amount Added:	16.00	Units: uL	
vmfaspw_00358	Amount Added:	16.00	Units: uL	
vmfasaw_00336	Amount Added:	16.00	Units: uL	
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

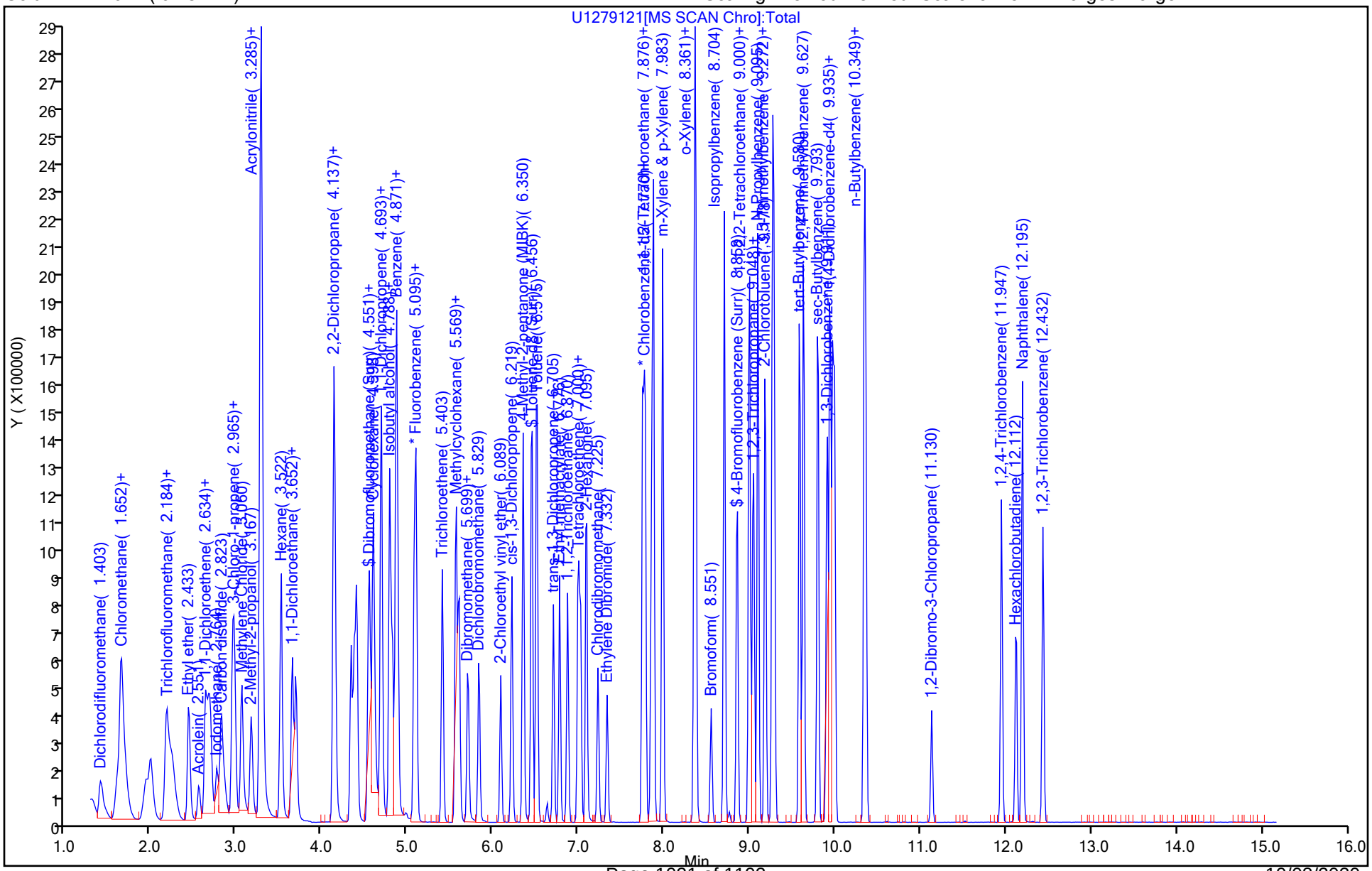
Report Date: 17-Jul-2020 17:00:02 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279121.D

Injection Date:	16-Jul-2020 20:43:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	ICV			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCV 240-453571/3 Calibration Date: 09/29/2020 17:28

Instrument ID: A3UX12 Calib Start Date: 04/30/2019 17:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/30/2019 20:05

Lab File ID: U1280876a.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0650		0.208	0.200	4.1	20.0
Diisopropyl ether	Ave	0.2698	0.2592		0.0192	0.0200	-3.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4548	0.5086		0.0224	0.0200	11.8	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.8827	0.9304		0.0211	0.0200	5.4	20.0
Ethyl acetate	Ave	0.3663	0.4321		0.0472	0.0400	18.0	20.0
Propionitrile	Lin1		0.0704		0.184	0.200	-7.9	20.0
Methacrylonitrile	Ave	0.2471	0.2838		0.230	0.200	14.8	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.9065	0.9855		0.0217	0.0200	8.7	20.0
n-Butanol	Ave	0.0237	0.0186		0.393	0.500	-21.5*	20.0
Ethyl acrylate	Ave	0.3838	0.5010		0.0261	0.0200	30.5*	20.0
Methyl methacrylate	Ave	0.2550	0.3484		0.0546	0.0400	36.6*	20.0
2-Nitropropane	Ave	0.0769	0.0966		0.0503	0.0400	25.7*	20.0
n-Butyl acetate	Ave	0.7023	0.8839		0.0252	0.0200	25.9*	20.0
1-Chlorohexane	Ave	0.5721	0.6143		0.0215	0.0200	7.4	20.0
Cyclohexanone	Lin1		0.0234		0.167	0.200	-16.5	20.0
Pentachloroethane	Ave	0.4435	0.4135		0.0373	0.0400	-6.8	20.0
1,2,3-Trimethylbenzene	Ave	2.954	2.766		0.0187	0.0200	-6.4	20.0
Benzyl chloride	Ave	2.132	2.045		0.0192	0.0200	-4.1	20.0
1,3,5-Trichlorobenzene	Ave	1.258	0.9485		0.0151	0.0200	-24.6*	20.0
2-Methylnaphthalene	Ave	2.484	1.275		0.0205	0.0400	-48.7*	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280876a.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 29-Sep-2020 17:28:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-003
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub4

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 18:07:24 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: laveyt Date: 29-Sep-2020 18:07:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1190638	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	837583	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.971	0.000	95	427617	20.0	20.0	
26 Acetonitrile	41	2.930	2.930	0.000	99	774077	200.0	208.2	
37 Isopropyl ether	87	3.699	3.699	0.000	95	308670	20.0	19.2	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	91	605551	20.0	22.4	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	98	1107728	20.0	21.1	
43 Ethyl acetate	43	4.196	4.196	0.000	99	1028903	40.0	47.2	
44 Propionitrile	54	4.208	4.208	0.000	99	838506	200.0	184.2	
45 Methacrylonitrile	41	4.326	4.326	0.000	94	3378729	200.0	229.7	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	99	1173362	20.0	21.7	
58 n-Butanol	56	5.344	5.344	0.000	87	553514	500.0	392.7	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	596489	20.0	26.1	
63 Methyl methacrylate	41	5.687	5.687	0.000	92	829612	40.0	54.6	
67 2-Nitropropane	41	6.030	6.030	0.000	99	230035	40.0	50.3	
79 n-Butyl acetate	43	7.202	7.202	0.000	99	740377	20.0	25.2	
82 1-Chlorohexane	91	7.746	7.746	0.000	82	514531	20.0	21.5	
91 Cyclohexanone	55	8.799	8.799	0.000	93	195653	200.0	167.0	
103 Pentachloroethane	167	9.604	9.604	0.000	91	353664	40.0	37.3	
109 1,2,3-Trimethylbenzene	105	10.042	10.042	0.000	98	1182687	20.0	18.7	
110 Benzyl chloride	91	10.136	10.136	0.000	99	874617	20.0	19.2	
114 1,3,5-Trichlorobenzene	180	11.331	11.331	0.000	98	405599	20.0	15.1	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	94	1090122	40.0	20.5	
168 1-Methylnaphthalene	142	13.591	13.591	0.000	0	941234	NC	NC	
169 Isooctane	57		0.000				ND	ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

vmra9w_00362	Amount Added:	16.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

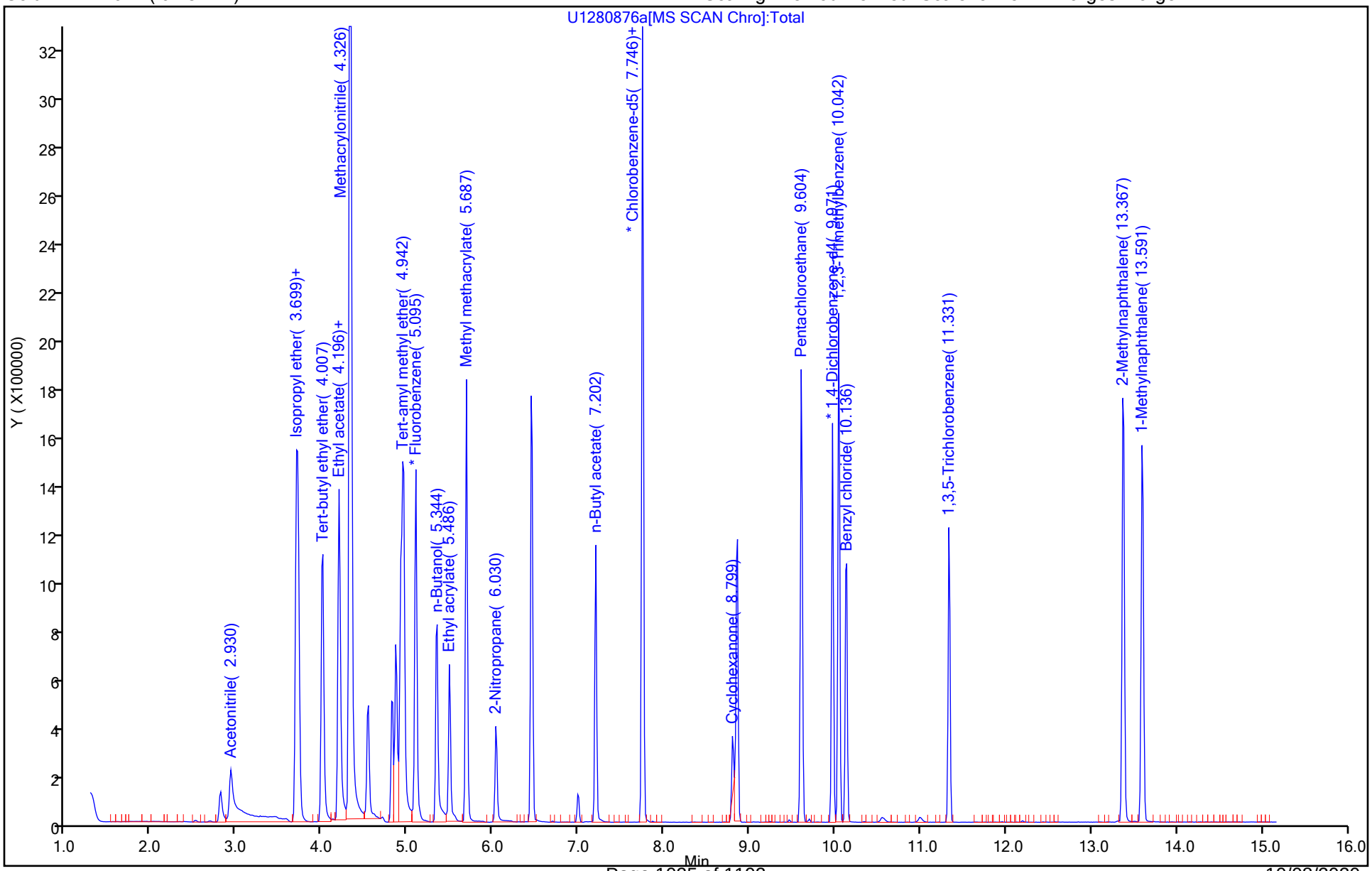
Report Date: 29-Sep-2020 18:07:25 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280876a.D

Injection Date:	29-Sep-2020 17:28:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	CCV A9			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453571/4 Calibration Date: 09/29/2020 17:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280877.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3124	0.3220	0.1000	0.0206	0.0200	3.1	20.0
Chloromethane	Ave	0.5311	0.5185	0.1000	0.0195	0.0200	-2.4	20.0
Butadiene	Ave	0.3681	0.4103		0.0223	0.0200	11.5	20.0
Vinyl chloride	Ave	0.3743	0.3607	0.1000	0.0193	0.0200	-3.6	20.0
Bromomethane	Ave	0.2481	0.2125	0.0500	0.0171	0.0200	-14.3	20.0
Chloroethane	Ave	0.2724	0.2438	0.0500	0.0179	0.0200	-10.5	20.0
Dichlorofluoromethane	Ave	0.5688	0.4908		0.0173	0.0200	-13.7	20.0
Trichlorofluoromethane	Ave	0.4377	0.3980	0.1000	0.0182	0.0200	-9.1	20.0
Ethyl ether	Ave	0.3037	0.2752		0.0181	0.0200	-9.4	20.0
Acrolein	Ave	0.0262	0.0275		0.105	0.100	5.1	20.0
1,1-Dichloroethene	Ave	0.4021	0.4231	0.1000	0.0210	0.0200	5.2	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2362	0.2591	0.0500	0.0219	0.0200	9.7	20.0
Acetone	Ave	0.1273	0.1503	0.0100	0.0472	0.0400	18.0	50.0
Iodomethane	Ave	0.4091	0.3841		0.0188	0.0200	-6.1	20.0
Carbon disulfide	Ave	0.8097	0.8183	0.1000	0.0202	0.0200	1.1	20.0
3-Chloro-1-propene	Ave	0.4509	0.4959		0.0220	0.0200	10.0	20.0
Methyl acetate	Ave	0.3065	0.3626	0.1000	0.0473	0.0400	18.3	50.0
Methylene Chloride	Ave	0.3674	0.3744	0.1000	0.0204	0.0200	1.9	50.0
tert-Butyl alcohol	Ave	0.0380	0.0519		0.273	0.200	36.6*	20.0
Acrylonitrile	Ave	0.1589	0.1775		0.224	0.200	11.8	20.0
Methyl tert-butyl ether	Ave	0.8861	0.8932	0.1000	0.0202	0.0200	0.8	20.0
trans-1,2-Dichloroethene	Ave	0.3859	0.4117	0.1000	0.0213	0.0200	6.7	20.0
Hexane	Ave	0.4275	0.4883		0.0228	0.0200	14.2	20.0
1,1-Dichloroethane	Ave	0.5143	0.5204	0.2000	0.0202	0.0200	1.2	20.0
Vinyl acetate	Ave	0.7246	0.7486		0.0207	0.0200	3.3	20.0
2,2-Dichloropropane	Ave	0.3526	0.2956		0.0168	0.0200	-16.2	20.0
cis-1,2-Dichloroethene	Ave	0.3599	0.3038	0.1000	0.0169	0.0200	-15.6	20.0
2-Butanone	Ave	0.0631	0.0624	0.0100	0.0396	0.0400	-1.1	50.0
Bromochloromethane	Ave	0.2926	0.2594		0.0177	0.0200	-11.4	20.0
Tetrahydrofuran	Ave	0.1611	0.1729		0.0429	0.0400	7.3	20.0
Chloroform	Ave	0.5092	0.4658	0.2000	0.0183	0.0200	-8.5	20.0
1,1,1-Trichloroethane	Ave	0.4037	0.3925	0.1000	0.0194	0.0200	-2.8	20.0
Cyclohexane	Ave	0.4779	0.4873	0.1000	0.0204	0.0200	2.0	20.0
1,1-Dichloropropene	Ave	0.4108	0.4219		0.0205	0.0200	2.7	20.0
Carbon tetrachloride	Ave	0.3288	0.3243	0.1000	0.0197	0.0200	-1.4	20.0
Isobutyl alcohol	Ave	0.0161	0.0202		0.625	0.500	25.0*	20.0
Benzene	Ave	1.228	1.205	0.5000	0.0196	0.0200	-1.8	20.0
1,2-Dichloroethane	Ave	0.3989	0.3700	0.1000	0.0186	0.0200	-7.2	20.0
n-Heptane	Lin1		0.2284		0.0210	0.0200	4.8	20.0
Trichloroethene	Ave	0.2776	0.2895	0.1500	0.0209	0.0200	4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453571/4 Calibration Date: 09/29/2020 17:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280877.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4860	0.5271	0.1000	0.0217	0.0200	8.5	20.0
1,2-Dichloropropane	Ave	0.2651	0.2851	0.1000	0.0215	0.0200	7.5	20.0
Dibromomethane	Ave	0.1882	0.1808		0.0192	0.0200	-4.0	20.0
1,4-Dioxane	Ave	0.0035	0.0049		0.565	0.400	41.1	50.0
Bromodichloromethane	Ave	0.3312	0.3265	0.1500	0.0197	0.0200	-1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1997	0.2195		0.0440	0.0400	9.9	20.0
cis-1,3-Dichloropropene	Ave	0.4197	0.4476	0.1500	0.0213	0.0200	6.7	50.0
4-Methyl-2-pentanone	Ave	0.4341	0.4541	0.0500	0.0418	0.0400	4.6	50.0
Toluene	Ave	1.659	1.706	0.4000	0.0206	0.0200	2.8	20.0
trans-1,3-Dichloropropene	Ave	0.5377	0.5705	0.1000	0.0212	0.0200	6.1	20.0
Ethyl methacrylate	Ave	0.5422	0.6020		0.0222	0.0200	11.0	20.0
1,1,2-Trichloroethane	Ave	0.3249	0.3293	0.1000	0.0203	0.0200	1.3	20.0
Tetrachloroethene	Ave	0.3971	0.4173	0.1500	0.0210	0.0200	5.1	20.0
1,3-Dichloropropane	Ave	0.6096	0.6397		0.0210	0.0200	4.9	20.0
2-Hexanone	Ave	0.4350	0.4881	0.0500	0.0449	0.0400	12.2	50.0
Dibromochloromethane	Ave	0.3194	0.3149		0.0197	0.0200	-1.4	20.0
1,2-Dibromoethane	Ave	0.3359	0.3511		0.0209	0.0200	4.5	20.0
Chlorobenzene	Ave	0.9701	1.031	0.3000	0.0213	0.0200	6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3350		0.0203	0.0200	1.3	20.0
Ethylbenzene	Ave	0.5327	0.5914		0.0222	0.0200	11.0	20.0
m-Xylene & p-Xylene	Ave	0.6598	0.7354		0.0223	0.0200	11.5	20.0
o-Xylene	Ave	0.6795	0.7129		0.0210	0.0200	4.9	20.0
Styrene	Ave	1.091	1.175	0.3000	0.0215	0.0200	7.7	20.0
Bromoform	Ave	0.2201	0.2229	0.1000	0.0202	0.0200	1.2	20.0
Isopropylbenzene	Ave	1.703	1.842	0.1000	0.0216	0.0200	8.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.000	1.080	0.3000	0.0216	0.0200	8.1	20.0
Bromobenzene	Ave	0.7816	0.8398		0.0215	0.0200	7.4	20.0
1,2,3-Trichloropropane	Ave	0.3449	0.3764		0.0218	0.0200	9.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2927	0.2777		0.0190	0.0200	-5.1	20.0
n-Propylbenzene	Ave	0.8506	0.9862		0.0232	0.0200	15.9	20.0
2-Chlorotoluene	Ave	0.7510	0.7992		0.0213	0.0200	6.4	20.0
1,3,5-Trimethylbenzene	Ave	2.508	2.804		0.0224	0.0200	11.8	20.0
4-Chlorotoluene	Ave	0.7704	0.8323		0.0216	0.0200	8.0	20.0
tert-Butylbenzene	Ave	2.195	2.453		0.0223	0.0200	11.7	20.0
1,2,4-Trimethylbenzene	Ave	2.634	2.817		0.0214	0.0200	6.9	20.0
sec-Butylbenzene	Ave	3.184	3.476		0.0218	0.0200	9.2	20.0
1,3-Dichlorobenzene	Ave	1.484	1.562	0.6000	0.0211	0.0200	5.3	20.0
p-Isopropyltoluene	Ave	2.648	2.981		0.0225	0.0200	12.6	20.0
1,4-Dichlorobenzene	Ave	1.537	1.578	0.5000	0.0205	0.0200	2.7	20.0
n-Butylbenzene	Ave	2.220	2.477		0.0223	0.0200	11.6	20.0
1,2-Dichlorobenzene	Ave	1.473	1.527	0.4000	0.0207	0.0200	3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453571/4 Calibration Date: 09/29/2020 17:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280877.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2336	0.2766	0.0500	0.0237	0.0200	18.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8111	0.8930	0.2000	0.0220	0.0200	10.1	50.0
Hexachlorobutadiene	Ave	0.3104	0.3196		0.0206	0.0200	2.9	50.0
Naphthalene	Ave	2.686	3.124		0.0233	0.0200	16.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7472	0.8400		0.0225	0.0200	12.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2655	0.2408		0.0181	0.0200	-9.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3249	0.3017		0.0186	0.0200	-7.1	20.0
Toluene-d8 (Surr)	Ave	1.353	1.402		0.0207	0.0200	3.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4632	0.5122		0.0221	0.0200	10.6	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280877.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Sep-2020 17:51:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-004
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 18:25:45 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: laveyt Date: 29-Sep-2020 18:25:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1190490	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	832661	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	92	421773	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	286641	20.0	18.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	96	359151	20.0	18.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1167269	20.0	20.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.846	8.846	0.000	92	426479	20.0	22.1	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	383390	20.0	20.6	
10 Chloromethane	50	1.628	1.628	0.000	99	617262	20.0	19.5	
11 Butadiene	54	1.640	1.640	0.000	92	488449	20.0	22.3	
12 Vinyl chloride	62	1.687	1.687	0.000	97	429433	20.0	19.3	
14 Bromomethane	94	1.948	1.948	0.000	90	253022	20.0	17.1	
15 Chloroethane	64	1.995	1.995	0.000	100	290283	20.0	17.9	
16 Dichlorofluoromethane	67	2.184	2.184	0.000	97	584247	20.0	17.3	
17 Trichlorofluoromethane	101	2.255	2.255	0.000	97	473794	20.0	18.2	
19 Ethyl ether	59	2.433	2.433	0.000	92	327598	20.0	18.1	
20 Acrolein	56	2.551	2.551	0.000	98	163697	100.0	105.1	
21 1,1-Dichloroethene	61	2.622	2.622	0.000	97	503692	20.0	21.0	
22 112TCTFE	101	2.670	2.670	0.000	95	308503	20.0	21.9	
23 Acetone	43	2.681	2.681	0.000	100	357744	40.0	47.2	
24 Iodomethane	142	2.764	2.764	0.000	98	457266	20.0	18.8	M
25 Carbon disulfide	76	2.812	2.812	0.000	99	974200	20.0	20.2	
27 3-Chloro-1-propene	41	2.942	2.942	0.000	90	590316	20.0	22.0	
28 Methyl acetate	43	2.965	2.965	0.000	98	863325	40.0	47.3	
29 Methylene Chloride	49	3.048	3.048	0.000	95	445680	20.0	20.4	
30 2-Methyl-2-propanol	59	3.167	3.167	0.000	100	617855	200.0	273.3	
31 Acrylonitrile	53	3.273	3.273	0.000	99	2113435	200.0	223.5	
33 Methyl tert-butyl ether	73	3.285	3.285	0.000	97	1063381	20.0	20.2	
32 trans-1,2-Dichloroethene	61	3.285	3.285	0.000	98	490165	20.0	21.3	
34 Hexane	57	3.510	3.510	0.000	92	581342	20.0	22.8	
35 1,1-Dichloroethane	63	3.640	3.640	0.000	96	619572	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.687	3.687	0.000	97	891192	20.0	20.7	
40 2,2-Dichloropropane	77	4.125	4.125	0.000	60	351904	20.0	16.8	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	82	361697	20.0	16.9	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	100	148683	40.0	39.6	
46 Chlorobromomethane	49	4.326	4.326	0.000	98	308790	20.0	17.7	
47 Tetrahydrofuran	42	4.373	4.373	0.000	89	411653	40.0	42.9	
48 Chloroform	83	4.397	4.397	0.000	94	554483	20.0	18.3	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	467274	20.0	19.4	
50 Cyclohexane	84	4.598	4.598	0.000	90	580112	20.0	20.4	
51 1,1-Dichloropropene	75	4.681	4.681	0.000	95	502326	20.0	20.5	
52 Carbon tetrachloride	117	4.693	4.693	0.000	75	386050	20.0	19.7	
53 Isobutyl alcohol	41	4.788	4.788	0.000	95	600247	500.0	625.1	
54 Benzene	78	4.859	4.859	0.000	96	1434790	20.0	19.6	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	440483	20.0	18.6	
57 n-Heptane	57	5.072	5.072	0.000	93	271941	20.0	21.0	
59 Trichloroethene	130	5.403	5.403	0.000	97	344697	20.0	20.9	
61 Methylcyclohexane	83	5.569	5.569	0.000	90	627530	20.0	21.7	
62 1,2-Dichloropropane	63	5.592	5.592	0.000	93	339440	20.0	21.5	
64 Dibromomethane	174	5.699	5.699	0.000	94	215207	20.0	19.2	
65 1,4-Dioxane	88	5.711	5.711	0.000	93	116231	400.0	564.6	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	388689	20.0	19.7	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	522588	40.0	44.0	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	532871	20.0	21.3	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	96	1081287	40.0	41.8	
71 Toluene	91	6.503	6.503	0.000	99	1420231	20.0	20.6	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	94	475042	20.0	21.2	
74 Ethyl methacrylate	69	6.776	6.776	0.000	91	501259	20.0	22.2	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	274157	20.0	20.3	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	347493	20.0	21.0	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	532670	20.0	21.0	
78 2-Hexanone	43	7.083	7.083	0.000	97	812856	40.0	44.9	
80 Chlorodibromomethane	129	7.225	7.225	0.000	90	262173	20.0	19.7	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	292384	20.0	20.9	
83 Chlorobenzene	112	7.781	7.781	0.000	95	858844	20.0	21.3	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	278936	20.0	20.3	
85 Ethylbenzene	106	7.876	7.876	0.000	98	492445	20.0	22.2	
86 m-Xylene & p-Xylene	106	7.983	7.983	0.000	98	612344	20.0	22.3	
87 o-Xylene	106	8.361	8.361	0.000	95	593640	20.0	21.0	
88 Styrene	104	8.373	8.373	0.000	96	978071	20.0	21.5	
89 Bromoform	173	8.551	8.551	0.000	97	185576	20.0	20.2	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	1534095	20.0	21.6	
93 1,1,2,2-Tetrachloroethane	83	8.988	8.988	0.000	84	455694	20.0	21.6	
92 Bromobenzene	156	9.000	9.000	0.000	93	354184	20.0	21.5	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	87	158736	20.0	21.8	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.047	0.000	92	117112	20.0	19.0	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	415956	20.0	23.2	
97 2-Chlorotoluene	126	9.178	9.178	0.000	96	337077	20.0	21.3	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	1182775	20.0	22.4	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	351036	20.0	21.6	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	1034564	20.0	22.3	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	1188066	20.0	21.4	
105 sec-Butylbenzene	105	9.793	9.793	0.000	95	1466069	20.0	21.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	99	658817	20.0	21.1	
107 4-Isopropyltoluene	119	9.935	9.935	0.000	97	1257139	20.0	22.5	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	665651	20.0	20.5	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	1044856	20.0	22.3	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	644021	20.0	20.7	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	85	116673	20.0	23.7	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	93	376655	20.0	22.0	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	134784	20.0	20.6	
117 Naphthalene	128	12.195	12.195	0.000	97	1317533	20.0	23.3	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	96	354309	20.0	22.5	
S 124 Trihalomethanes, Total	1				0		80.0	78.0	
S 125 Total BTEX	1				0		100.0	105.7	
S 128 Xylenes, Total	106				0		40.0	43.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

vmarolistdw_00362	Amount Added:	16.00	Units: uL	
vmrprimw_00405	Amount Added:	16.00	Units: uL	
vmrgas_00356	Amount Added:	16.00	Units: uL	
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

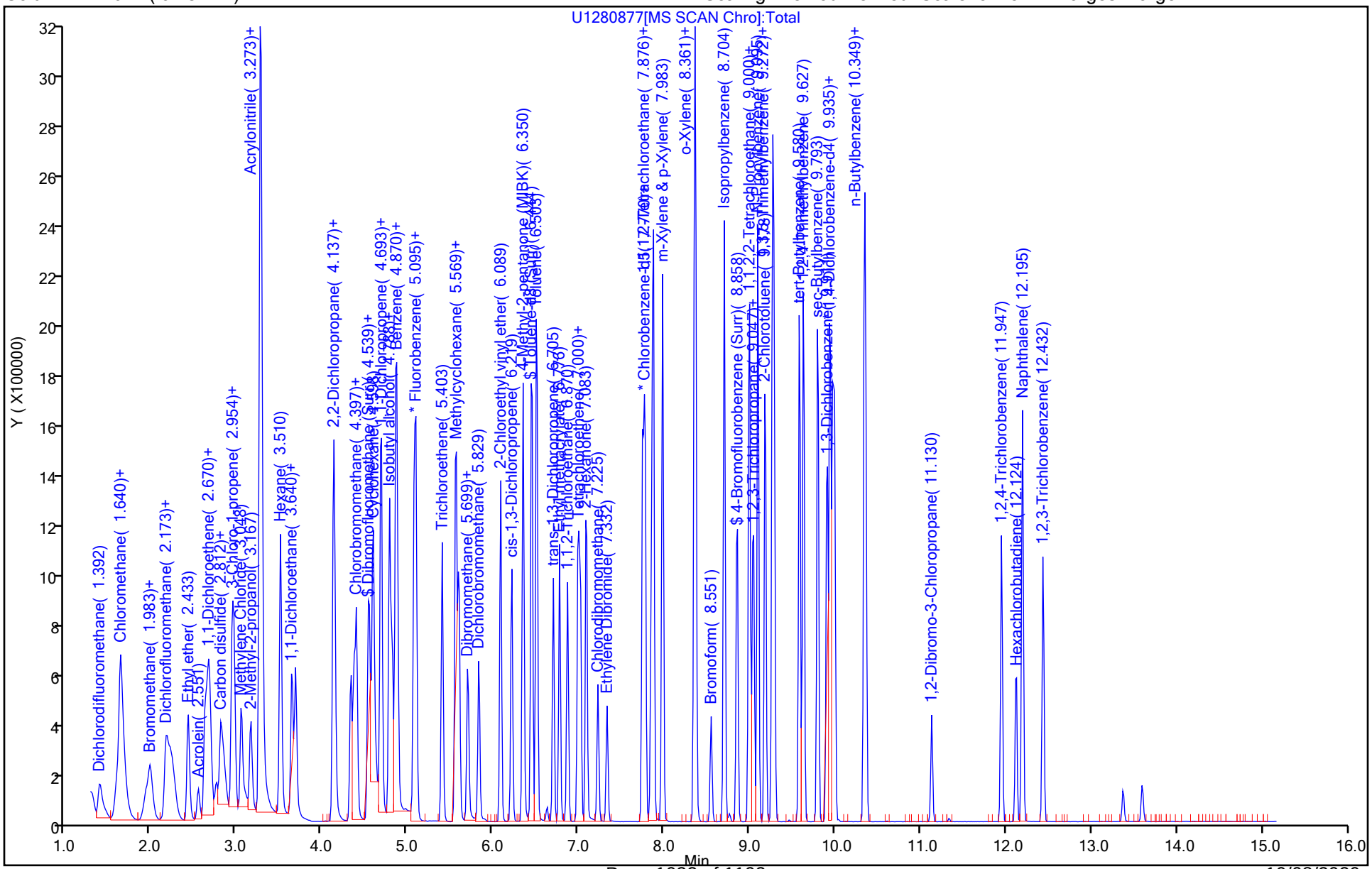
Report Date: 29-Sep-2020 18:25:48 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280877.D

Injection Date:	29-Sep-2020 17:51:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

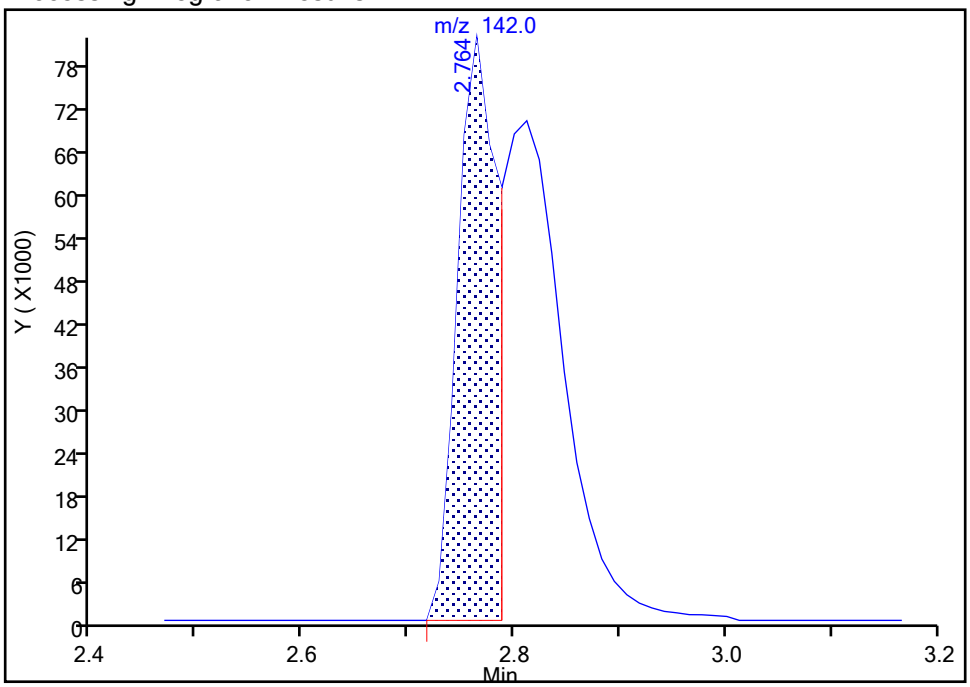
Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280877.D
Injection Date: 29-Sep-2020 17:51:30 Instrument ID: A3UX12
Lims ID: CCVIS
Client ID:
Operator ID: 001904 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Iodomethane, CAS: 74-88-4

Signal: 1

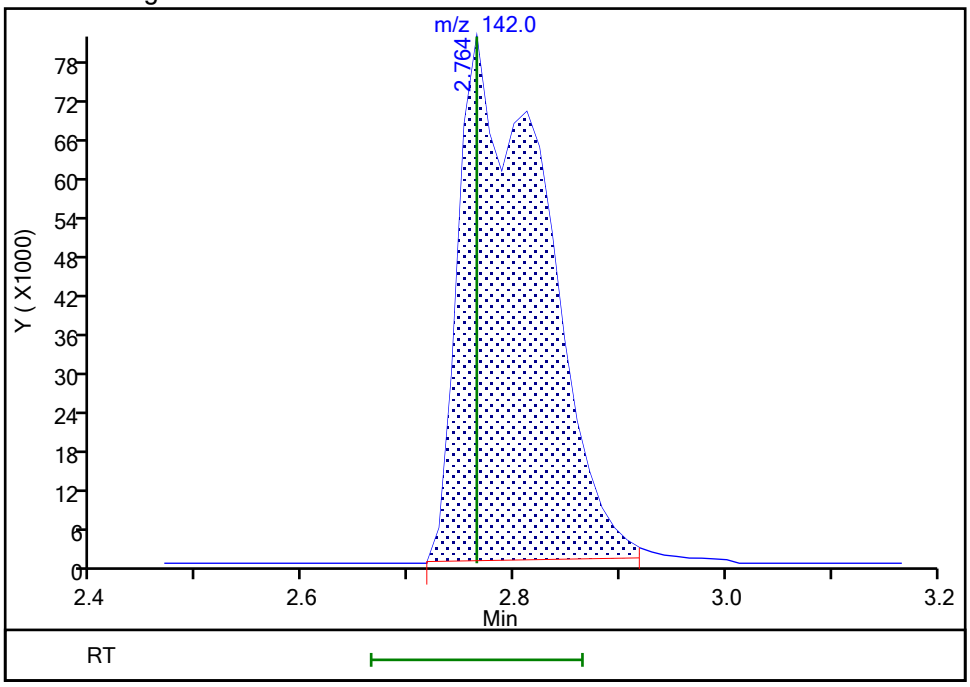
Processing Integration Results

RT: 2.76
Area: 220299
Amount: 9.047612
Amount Units: ug/l



Manual Integration Results

RT: 2.76
Area: 457266
Amount: 18.779773
Amount Units: ug/l



Reviewer: laveyt, 29-Sep-2020 18:23:57
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCV 240-453771/3 Calibration Date: 09/30/2020 16:29

Instrument ID: A3UX12 Calib Start Date: 04/30/2019 17:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/30/2019 20:05

Lab File ID: U1280902a.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0697		0.224	0.200	12.0	20.0
Diisopropyl ether	Ave	0.2698	0.2633		0.0195	0.0200	-2.4	20.0
2-Chloro-1,3-butadiene	Ave	0.4548	0.5303		0.0233	0.0200	16.6	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.8827	0.9415		0.0213	0.0200	6.7	20.0
Ethyl acetate	Ave	0.3663	0.4114		0.0449	0.0400	12.3	20.0
Propionitrile	Lin1		0.0748		0.196	0.200	-1.9	20.0
Methacrylonitrile	Ave	0.2471	0.2819		0.228	0.200	14.1	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.9065	1.014		0.0224	0.0200	11.9	20.0
n-Butanol	Ave	0.0237	0.0196		0.414	0.500	-17.3	20.0
Ethyl acrylate	Ave	0.3838	0.4696		0.0245	0.0200	22.4*	20.0
Methyl methacrylate	Ave	0.2550	0.3260		0.0511	0.0400	27.8*	20.0
2-Nitropropane	Ave	0.0769	0.0918		0.0478	0.0400	19.5	20.0
n-Butyl acetate	Ave	0.7023	0.8416		0.0240	0.0200	19.8	20.0
1-Chlorohexane	Ave	0.5721	0.6089		0.0213	0.0200	6.4	20.0
Cyclohexanone	Lin1		0.0252		0.181	0.200	-9.7	20.0
Pentachloroethane	Ave	0.4435	0.4361		0.0393	0.0400	-1.7	20.0
1,2,3-Trimethylbenzene	Ave	2.954	2.888		0.0196	0.0200	-2.2	20.0
Benzyl chloride	Ave	2.132	2.131		0.0200	0.0200	-0.0	20.0
1,3,5-Trichlorobenzene	Ave	1.258	1.023		0.0163	0.0200	-18.7	20.0
2-Methylnaphthalene	Ave	2.484	1.427		0.0230	0.0400	-42.6*	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280902a.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 30-Sep-2020 16:29:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-003
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub4

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 16:51:00 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 16:51:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1099004	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	743044	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.971	0.000	95	380642	20.0	20.0	
26 Acetonitrile	41	2.942	2.942	0.000	99	766430	200.0	224.0	
37 Isopropyl ether	87	3.699	3.699	0.000	95	289422	20.0	19.5	
38 2-Chloro-1,3-butadiene	53	3.723	3.723	0.000	91	582757	20.0	23.3	
39 Tert-butyl ethyl ether	59	4.007	4.007	0.000	98	1034767	20.0	21.3	
43 Ethyl acetate	43	4.196	4.196	0.000	99	904369	40.0	44.9	
44 Propionitrile	54	4.208	4.208	0.000	99	822008	200.0	196.2	
45 Methacrylonitrile	41	4.338	4.338	0.000	93	3097871	200.0	228.2	
56 Tert-amyl methyl ether	73	4.953	4.953	0.000	99	1114582	20.0	22.4	
58 n-Butanol	56	5.344	5.344	0.000	87	537994	500.0	413.5	
60 Ethyl acrylate	55	5.486	5.486	0.000	99	516115	20.0	24.5	
63 Methyl methacrylate	41	5.687	5.687	0.000	93	716590	40.0	51.1	
67 2-Nitropropane	41	6.030	6.030	0.000	98	201810	40.0	47.8	
79 n-Butyl acetate	43	7.202	7.202	0.000	98	625376	20.0	24.0	
82 1-Chlorohexane	91	7.746	7.746	0.000	84	452414	20.0	21.3	
91 Cyclohexanone	55	8.799	8.799	0.000	93	186966	200.0	180.7	
103 Pentachloroethane	167	9.604	9.604	0.000	91	332026	40.0	39.3	
109 1,2,3-Trimethylbenzene	105	10.042	10.042	0.000	98	1099272	20.0	19.6	
110 Benzyl chloride	91	10.136	10.136	0.000	99	811063	20.0	20.0	
114 1,3,5-Trichlorobenzene	180	11.331	11.331	0.000	98	389266	20.0	16.3	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	94	1086022	40.0	23.0	
168 1-Methylnaphthalene	142	13.591	13.591	0.000	0	958163	NC	NC	
169 Isooctane	57		0.000				ND	ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

vmra9w_00362	Amount Added:	16.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

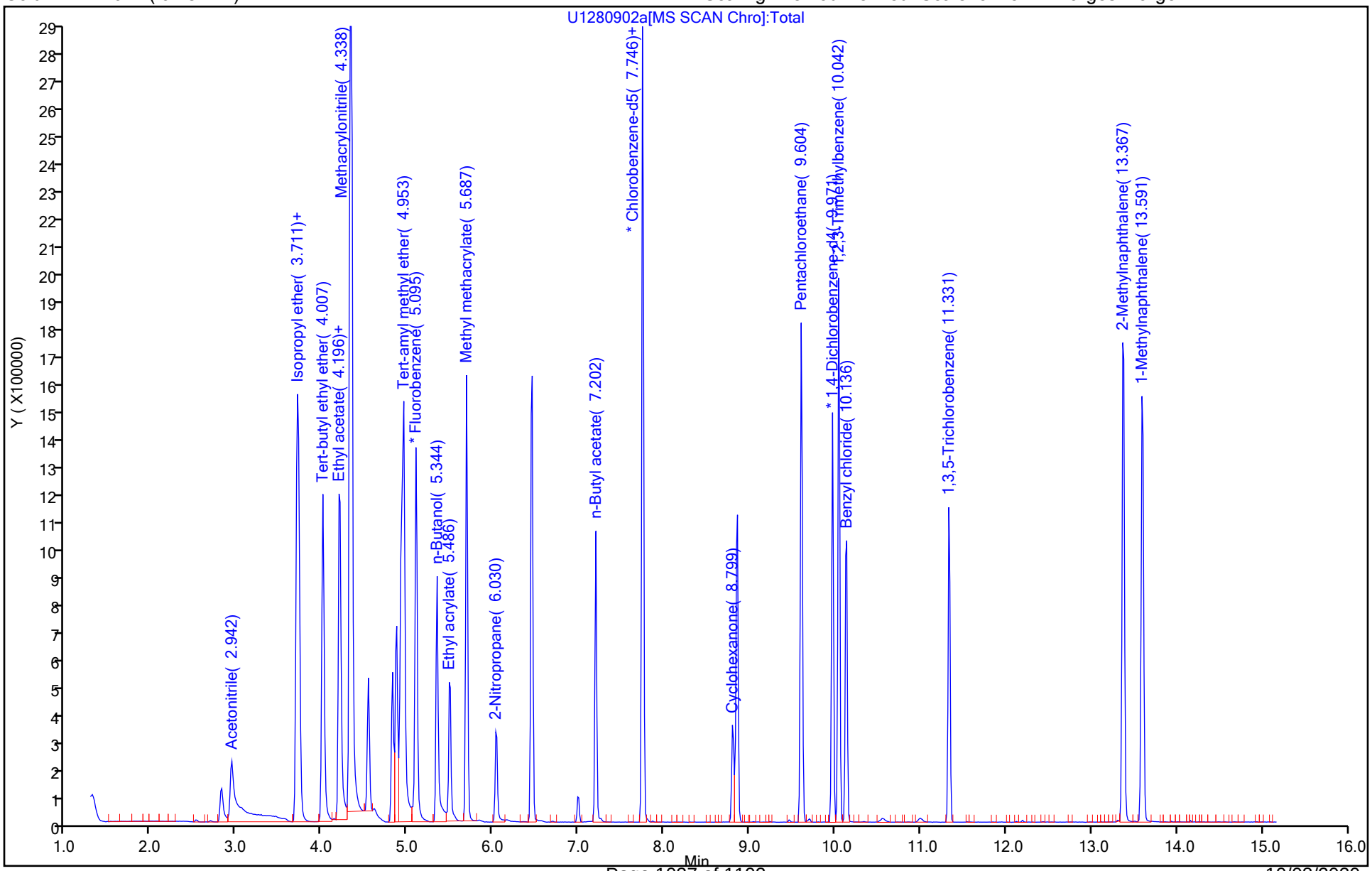
Report Date: 30-Sep-2020 16:51:00 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280902a.D

Injection Date:	30-Sep-2020 16:29:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	CCV A9			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453771/4 Calibration Date: 09/30/2020 16:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280903.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3124	0.3191	0.1000	0.0204	0.0200	2.1	20.0
Chloromethane	Ave	0.5311	0.5199	0.1000	0.0196	0.0200	-2.1	20.0
Butadiene	Ave	0.3681	0.4048		0.0220	0.0200	10.0	20.0
Vinyl chloride	Ave	0.3743	0.3662	0.1000	0.0196	0.0200	-2.1	20.0
Bromomethane	Ave	0.2481	0.2143	0.0500	0.0173	0.0200	-13.6	20.0
Chloroethane	Ave	0.2724	0.2430	0.0500	0.0178	0.0200	-10.8	20.0
Dichlorofluoromethane	Ave	0.5688	0.4931		0.0173	0.0200	-13.3	20.0
Trichlorofluoromethane	Ave	0.4377	0.4000	0.1000	0.0183	0.0200	-8.6	20.0
Ethyl ether	Ave	0.3037	0.2667		0.0176	0.0200	-12.2	20.0
Acrolein	Ave	0.0262	0.0203		0.0775	0.100	-22.5*	20.0
1,1-Dichloroethene	Ave	0.4021	0.4117	0.1000	0.0205	0.0200	2.4	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2362	0.2492	0.0500	0.0211	0.0200	5.5	20.0
Acetone	Ave	0.1273	0.1247	0.0100	0.0392	0.0400	-2.0	50.0
Iodomethane	Ave	0.4091	0.3903		0.0191	0.0200	-4.6	20.0
Carbon disulfide	Ave	0.8097	0.8114	0.1000	0.0200	0.0200	0.2	20.0
3-Chloro-1-propene	Ave	0.4509	0.4837		0.0215	0.0200	7.3	20.0
Methyl acetate	Ave	0.3065	0.3341	0.1000	0.0436	0.0400	9.0	50.0
Methylene Chloride	Ave	0.3674	0.3709	0.1000	0.0202	0.0200	0.9	50.0
tert-Butyl alcohol	Ave	0.0380	0.0341		0.180	0.200	-10.1	20.0
Acrylonitrile	Ave	0.1589	0.1604		0.202	0.200	1.0	20.0
Methyl tert-butyl ether	Ave	0.8861	0.8529	0.1000	0.0193	0.0200	-3.7	20.0
trans-1,2-Dichloroethene	Ave	0.3859	0.4085	0.1000	0.0212	0.0200	5.8	20.0
Hexane	Ave	0.4275	0.4596		0.0215	0.0200	7.5	20.0
1,1-Dichloroethane	Ave	0.5143	0.5085	0.2000	0.0198	0.0200	-1.1	20.0
Vinyl acetate	Ave	0.7246	0.6507		0.0180	0.0200	-10.2	20.0
2,2-Dichloropropane	Ave	0.3526	0.2968		0.0168	0.0200	-15.8	20.0
cis-1,2-Dichloroethene	Ave	0.3599	0.3009	0.1000	0.0167	0.0200	-16.4	20.0
2-Butanone	Ave	0.0631	0.0554	0.0100	0.0351	0.0400	-12.3	50.0
Bromochloromethane	Ave	0.2926	0.2525		0.0173	0.0200	-13.7	20.0
Tetrahydrofuran	Ave	0.1611	0.1532		0.0380	0.0400	-4.9	20.0
Chloroform	Ave	0.5092	0.4603	0.2000	0.0181	0.0200	-9.6	20.0
1,1,1-Trichloroethane	Ave	0.4037	0.3773	0.1000	0.0187	0.0200	-6.5	20.0
Cyclohexane	Ave	0.4779	0.4735	0.1000	0.0198	0.0200	-0.9	20.0
1,1-Dichloropropene	Ave	0.4108	0.4026		0.0196	0.0200	-2.0	20.0
Carbon tetrachloride	Ave	0.3288	0.3109	0.1000	0.0189	0.0200	-5.4	20.0
Isobutyl alcohol	Ave	0.0161	0.0175		0.543	0.500	8.6	20.0
Benzene	Ave	1.228	1.163	0.5000	0.0190	0.0200	-5.2	20.0
1,2-Dichloroethane	Ave	0.3989	0.3540	0.1000	0.0178	0.0200	-11.2	20.0
n-Heptane	Lin1		0.2121		0.0192	0.0200	-3.9	20.0
Trichloroethene	Ave	0.2776	0.2779	0.1500	0.0200	0.0200	0.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453771/4 Calibration Date: 09/30/2020 16:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280903.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4860	0.4955	0.1000	0.0204	0.0200	2.0	20.0
1,2-Dichloropropane	Ave	0.2651	0.2693	0.1000	0.0203	0.0200	1.6	20.0
1,4-Dioxane	Ave	0.0035	0.0040		0.460	0.400	15.1	50.0
Dibromomethane	Ave	0.1882	0.1753		0.0186	0.0200	-6.9	20.0
Bromodichloromethane	Ave	0.3312	0.3101	0.1500	0.0187	0.0200	-6.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1997	0.1974		0.0395	0.0400	-1.2	20.0
cis-1,3-Dichloropropene	Ave	0.4197	0.4125	0.1500	0.0197	0.0200	-1.7	50.0
4-Methyl-2-pentanone	Ave	0.4341	0.4079	0.0500	0.0376	0.0400	-6.0	50.0
Toluene	Ave	1.659	1.612	0.4000	0.0194	0.0200	-2.9	20.0
trans-1,3-Dichloropropene	Ave	0.5377	0.5277	0.1000	0.0196	0.0200	-1.8	20.0
Ethyl methacrylate	Ave	0.5422	0.5638		0.0208	0.0200	4.0	20.0
1,1,2-Trichloroethane	Ave	0.3249	0.3161	0.1000	0.0195	0.0200	-2.7	20.0
Tetrachloroethene	Ave	0.3971	0.4027	0.1500	0.0203	0.0200	1.4	20.0
1,3-Dichloropropane	Ave	0.6096	0.6062		0.0199	0.0200	-0.6	20.0
2-Hexanone	Ave	0.4350	0.4587	0.0500	0.0422	0.0400	5.4	50.0
Dibromochloromethane	Ave	0.3194	0.2994		0.0187	0.0200	-6.3	20.0
1,2-Dibromoethane	Ave	0.3359	0.3347		0.0199	0.0200	-0.4	20.0
Chlorobenzene	Ave	0.9701	0.9791	0.3000	0.0202	0.0200	0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3307	0.3253		0.0197	0.0200	-1.6	20.0
Ethylbenzene	Ave	0.5327	0.5624		0.0211	0.0200	5.6	20.0
m-Xylene & p-Xylene	Ave	0.6598	0.7002		0.0212	0.0200	6.1	20.0
o-Xylene	Ave	0.6795	0.6822		0.0201	0.0200	0.4	20.0
Styrene	Ave	1.091	1.094	0.3000	0.0201	0.0200	0.3	20.0
Bromoform	Ave	0.2201	0.2345	0.1000	0.0213	0.0200	6.5	20.0
Isopropylbenzene	Ave	1.703	1.776	0.1000	0.0209	0.0200	4.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.000	1.022	0.3000	0.0204	0.0200	2.2	20.0
Bromobenzene	Ave	0.7816	0.7873		0.0201	0.0200	0.7	20.0
1,2,3-Trichloropropane	Ave	0.3449	0.3410		0.0198	0.0200	-1.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2927	0.2594		0.0177	0.0200	-11.4	20.0
n-Propylbenzene	Ave	0.8506	0.9107		0.0214	0.0200	7.1	20.0
2-Chlorotoluene	Ave	0.7510	0.7561		0.0201	0.0200	0.7	20.0
1,3,5-Trimethylbenzene	Ave	2.508	2.592		0.0207	0.0200	3.4	20.0
4-Chlorotoluene	Ave	0.7704	0.7720		0.0200	0.0200	0.2	20.0
tert-Butylbenzene	Ave	2.195	2.241		0.0204	0.0200	2.1	20.0
1,2,4-Trimethylbenzene	Ave	2.634	2.606		0.0198	0.0200	-1.1	20.0
sec-Butylbenzene	Ave	3.184	3.196		0.0201	0.0200	0.4	20.0
1,3-Dichlorobenzene	Ave	1.484	1.456	0.6000	0.0196	0.0200	-1.9	20.0
p-Isopropyltoluene	Ave	2.648	2.727		0.0206	0.0200	3.0	20.0
1,4-Dichlorobenzene	Ave	1.537	1.463	0.5000	0.0190	0.0200	-4.8	20.0
n-Butylbenzene	Ave	2.220	2.244		0.0202	0.0200	1.1	20.0
1,2-Dichlorobenzene	Ave	1.473	1.410	0.4000	0.0191	0.0200	-4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453771/4 Calibration Date: 09/30/2020 16:51

Instrument ID: A3UX12 Calib Start Date: 07/16/2020 17:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/16/2020 20:20

Lab File ID: U1280903.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2336	0.2539	0.0500	0.0217	0.0200	8.7	50.0
1,2,4-Trichlorobenzene	Ave	0.8111	0.8205	0.2000	0.0202	0.0200	1.2	50.0
Hexachlorobutadiene	Ave	0.3104	0.2886		0.0186	0.0200	-7.0	50.0
Naphthalene	Ave	2.686	2.882		0.0215	0.0200	7.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7472	0.7683		0.0206	0.0200	2.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2655	0.2390		0.0180	0.0200	-10.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3249	0.2967		0.0183	0.0200	-8.7	20.0
Toluene-d8 (Surr)	Ave	1.353	1.381		0.0204	0.0200	2.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4632	0.4977		0.0215	0.0200	7.5	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280903.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Sep-2020 16:51:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-004
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12_h2o*sub2

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 17:15:41 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 17:15:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1163558	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	797559	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	419334	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	278080	20.0	18.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	96	345257	20.0	18.3	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1101358	20.0	20.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	97	396970	20.0	21.5	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	371306	20.0	20.4	
10 Chloromethane	50	1.616	1.616	0.000	98	604956	20.0	19.6	
11 Butadiene	54	1.652	1.652	0.000	87	470997	20.0	22.0	
12 Vinyl chloride	62	1.687	1.687	0.000	98	426111	20.0	19.6	
14 Bromomethane	94	1.948	1.948	0.000	91	249385	20.0	17.3	
15 Chloroethane	64	2.007	2.007	0.000	99	282717	20.0	17.8	
16 Dichlorofluoromethane	67	2.184	2.184	0.000	97	573771	20.0	17.3	
17 Trichlorofluoromethane	101	2.184	2.184	0.000	97	465429	20.0	18.3	
19 Ethyl ether	59	2.445	2.445	0.000	92	310293	20.0	17.6	
20 Acrolein	56	2.563	2.563	0.000	99	118007	100.0	77.5	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	96	479083	20.0	20.5	
22 112TCTFE	101	2.681	2.681	0.000	94	290003	20.0	21.1	
23 Acetone	43	2.693	2.693	0.000	100	290242	40.0	39.2	
24 Iodomethane	142	2.776	2.776	0.000	97	454120	20.0	19.1	
25 Carbon disulfide	76	2.823	2.823	0.000	99	944091	20.0	20.0	
27 3-Chloro-1-propene	41	2.954	2.954	0.000	91	562871	20.0	21.5	
28 Methyl acetate	43	2.977	2.977	0.000	98	777533	40.0	43.6	
29 Methylene Chloride	49	3.060	3.060	0.000	95	431532	20.0	20.2	
30 2-Methyl-2-propanol	59	3.167	3.167	0.000	99	397179	200.0	179.7	
31 Acrylonitrile	53	3.273	3.273	0.000	99	1866719	200.0	202.0	
32 trans-1,2-Dichloroethene	61	3.297	3.297	0.000	69	475295	20.0	21.2	
33 Methyl tert-butyl ether	73	3.297	3.297	0.000	96	992393	20.0	19.3	
34 Hexane	57	3.522	3.522	0.000	92	534774	20.0	21.5	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	591703	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.699	3.699	0.000	97	757145	20.0	18.0	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	83	350107	20.0	16.7	
40 2,2-Dichloropropane	77	4.137	4.137	0.000	61	345286	20.0	16.8	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	100	128854	40.0	35.1	
46 Chlorobromomethane	49	4.338	4.338	0.000	97	293787	20.0	17.3	
47 Tetrahydrofuran	42	4.373	4.373	0.000	90	356452	40.0	38.0	
48 Chloroform	83	4.409	4.409	0.000	94	535590	20.0	18.1	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	439037	20.0	18.7	
50 Cyclohexane	84	4.598	4.598	0.000	91	550917	20.0	19.8	
52 Carbon tetrachloride	117	4.693	4.693	0.000	76	361760	20.0	18.9	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	95	468407	20.0	19.6	
53 Isobutyl alcohol	41	4.788	4.788	0.000	95	509745	500.0	543.1	
54 Benzene	78	4.870	4.870	0.000	96	1353785	20.0	19.0	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	411945	20.0	17.8	
57 n-Heptane	57	5.072	5.083	-0.011	92	246770	20.0	19.2	
59 Trichloroethene	130	5.403	5.403	0.000	98	323313	20.0	20.0	
61 Methylcyclohexane	83	5.569	5.569	0.000	89	576575	20.0	20.4	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	93	313316	20.0	20.3	
65 1,4-Dioxane	88	5.711	5.711	0.000	95	92644	400.0	460.4	
64 Dibromomethane	174	5.711	5.711	0.000	95	203917	20.0	18.6	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	360769	20.0	18.7	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	459329	40.0	39.5	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	479996	20.0	19.7	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	97	949136	40.0	37.6	
71 Toluene	91	6.515	6.515	0.000	99	1285674	20.0	19.4	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	94	420905	20.0	19.6	
74 Ethyl methacrylate	69	6.776	6.776	0.000	91	449695	20.0	20.8	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	252115	20.0	19.5	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	321152	20.0	20.3	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	483443	20.0	19.9	
78 2-Hexanone	43	7.095	7.095	0.000	95	731666	40.0	42.2	
80 Chlorodibromomethane	129	7.225	7.225	0.000	91	238784	20.0	18.7	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	266967	20.0	19.9	
83 Chlorobenzene	112	7.781	7.781	0.000	95	780880	20.0	20.2	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	259473	20.0	19.7	
85 Ethylbenzene	106	7.876	7.876	0.000	98	448562	20.0	21.1	
86 m-Xylene & p-Xylene	106	7.983	7.983	0.000	99	558414	20.0	21.2	
87 o-Xylene	106	8.361	8.361	0.000	95	544079	20.0	20.1	
88 Styrene	104	8.373	8.373	0.000	95	872593	20.0	20.1	
89 Bromoform	173	8.550	8.550	0.000	97	187011	20.0	21.3	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	1416471	20.0	20.9	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	84	428435	20.0	20.4	
92 Bromobenzene	156	9.000	9.000	0.000	93	330130	20.0	20.1	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	86	143002	20.0	19.8	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.047	0.000	91	108771	20.0	17.7	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	381874	20.0	21.4	
97 2-Chlorotoluene	126	9.178	9.178	0.000	96	317046	20.0	20.1	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	1087092	20.0	20.7	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	323709	20.0	20.0	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	939642	20.0	20.4	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	96	1092924	20.0	19.8	
105 sec-Butylbenzene	105	9.793	9.793	0.000	95	1340109	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	610454	20.0	19.6	
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	1143677	20.0	20.6	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	613481	20.0	19.0	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	941120	20.0	20.2	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	591147	20.0	19.1	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	85	106486	20.0	21.7	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	0.000	93	344059	20.0	20.2	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	121027	20.0	18.6	
117 Naphthalene	128	12.195	12.195	0.000	97	1208546	20.0	21.5	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	96	322179	20.0	20.6	
S 124 Trihalomethanes, Total	1				0		80.0	76.9	
S 125 Total BTEX	1				0		100.0	100.8	
S 128 Xylenes, Total	106				0		40.0	41.3	

QC Flag Legend

Processing Flags

Reagents:

vmarolistdw_00362	Amount Added: 16.00	Units: uL	
vmrprimw_00405	Amount Added: 16.00	Units: uL	
vmrgas_00356	Amount Added: 16.00	Units: uL	
vmDist_H2o_00181	Amount Added: 0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added: 2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added: 0.00	Units:	Run Reagent

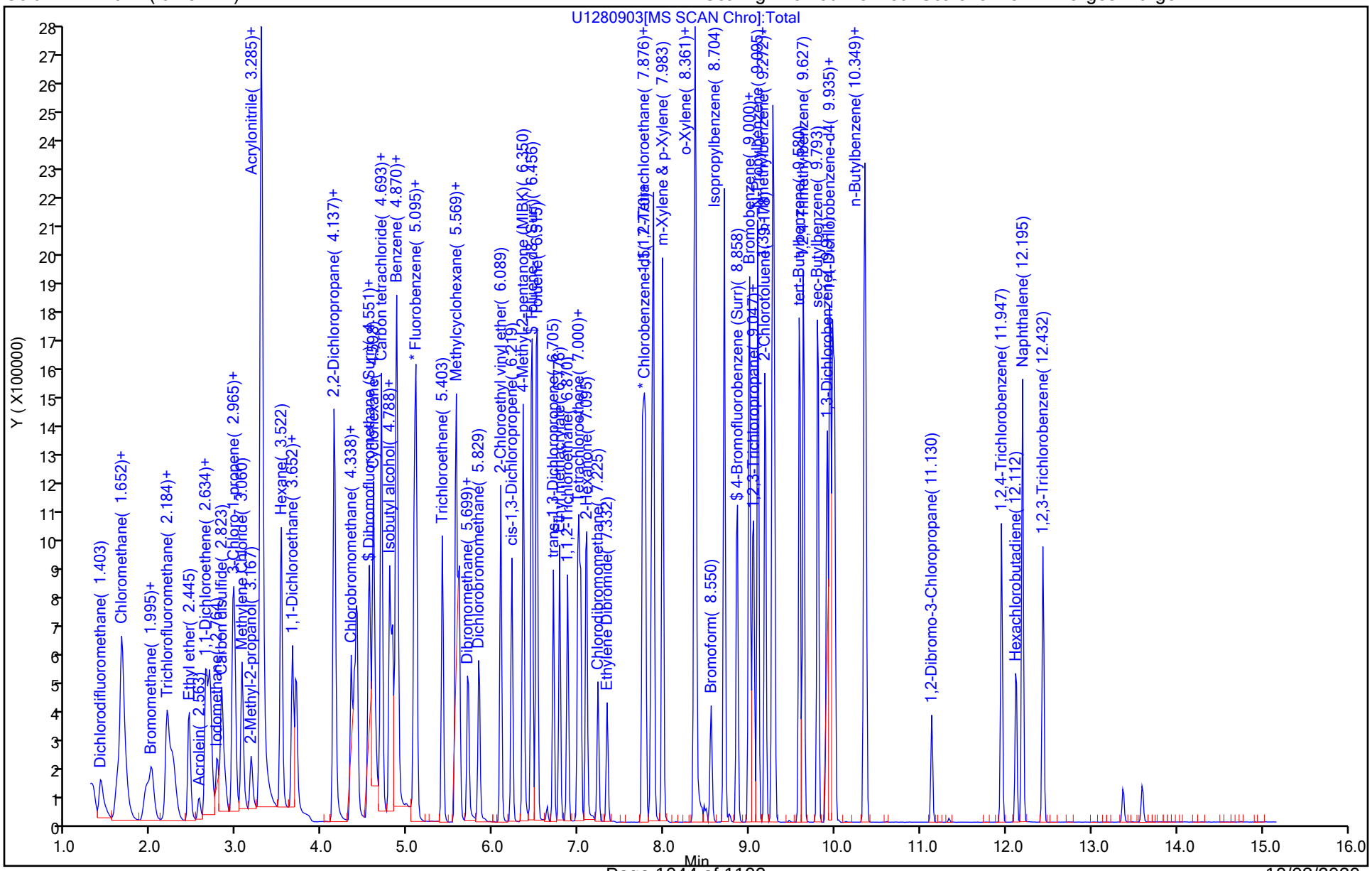
Report Date: 30-Sep-2020 17:15:45 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280903.D

Injection Date:	30-Sep-2020 16:51:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.2726	0.1000	0.0221	0.0200	10.4	30.0
Chloromethane	Ave	0.3154	0.3025	0.1000	0.0192	0.0200	-4.1	30.0
Vinyl chloride	Ave	0.3384	0.3433	0.1000	0.0203	0.0200	1.5	30.0
Butadiene	Ave	0.2983	0.3191		0.0214	0.0200	7.0	30.0
Bromomethane	Ave	0.2173	0.1999	0.0500	0.0184	0.0200	-8.0	30.0
Chloroethane	Ave	0.1802	0.1765	0.0500	0.0196	0.0200	-2.1	30.0
Dichlorofluoromethane	Ave	0.3832	0.4058		0.0212	0.0200	5.9	30.0
Trichlorofluoromethane	Ave	0.3386	0.3733	0.1000	0.0221	0.0200	10.3	30.0
Ethyl ether	Ave	0.1595	0.1514		0.0190	0.0200	-5.1	30.0
Acrolein	Ave	0.0119	0.0069		0.0579	0.100	-42.1*	30.0
1,1-Dichloroethene	Ave	0.2049	0.1999	0.1000	0.0195	0.0200	-2.4	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.1762	0.0500	0.0218	0.0200	9.1	30.0
Acetone	Ave	0.0178	0.0142	0.0100	0.0319	0.0400	-20.2	50.0
Iodomethane	Ave	0.3163	0.2718		0.0172	0.0200	-14.0	30.0
Carbon disulfide	Ave	0.6609	0.6132	0.1000	0.0186	0.0200	-7.2	30.0
Methyl acetate	Ave	0.1238	0.1097	0.1000	0.0354	0.0400	-11.4	50.0
3-Chloro-1-propene	Ave	0.2690	0.2515		0.0187	0.0200	-6.5	30.0
Methylene Chloride	Ave	0.2433	0.2261	0.1000	0.0186	0.0200	-7.1	50.0
tert-Butyl alcohol	Ave	0.0158	0.0130		0.165	0.200	-17.3	30.0
Acrylonitrile	Ave	0.0732	0.0657		0.179	0.200	-10.3	30.0
Methyl tert-butyl ether	Ave	0.5668	0.5340	0.1000	0.0188	0.0200	-5.8	30.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2345	0.1000	0.0193	0.0200	-3.3	30.0
Hexane	Ave	0.2648	0.3109		0.0235	0.0200	17.4	30.0
Vinyl acetate	Lin1		0.2549		0.0159	0.0200	-20.7	30.0
1,1-Dichloroethane	Ave	0.3751	0.3549	0.2000	0.0189	0.0200	-5.4	30.0
2-Butanone	Lin1		0.0194	0.0100	0.0330	0.0400	-17.6	50.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2532	0.1000	0.0196	0.0200	-2.2	30.0
2,2-Dichloropropane	Ave	0.3219	0.3218		0.0200	0.0200	-0.0	30.0
Bromochloromethane	Ave	0.1223	0.1142		0.0187	0.0200	-6.6	30.0
Tetrahydrofuran	Ave	0.0470	0.0414		0.0352	0.0400	-11.9	30.0
Chloroform	Ave	0.3871	0.3673	0.2000	0.0190	0.0200	-5.1	30.0
1,1,1-Trichloroethane	Ave	0.3419	0.3362	0.1000	0.0197	0.0200	-1.6	30.0
Cyclohexane	Ave	0.3195	0.3491	0.1000	0.0218	0.0200	9.2	30.0
1,1-Dichloropropene	Ave	0.3034	0.2966		0.0196	0.0200	-2.2	30.0
Carbon tetrachloride	Ave	0.3037	0.2977	0.1000	0.0196	0.0200	-2.0	30.0
Isobutyl alcohol	Lin1		0.0040		0.408	0.500	-18.4	30.0
Benzene	Ave	0.9186	0.8855	0.5000	0.0193	0.0200	-3.6	30.0
1,2-Dichloroethane	Ave	0.2786	0.2608	0.1000	0.0187	0.0200	-6.4	30.0
n-Heptane	Lin1		0.1946		0.0226	0.0200	13.0	30.0
Trichloroethene	Ave	0.2729	0.2620	0.1500	0.0192	0.0200	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.4060	0.1000	0.0216	0.0200	7.9	30.0
1,2-Dichloropropane	Ave	0.2086	0.2029	0.1000	0.0195	0.0200	-2.7	30.0
1,4-Dioxane	Ave	0.0025	0.0022		0.357	0.400	-10.7	50.0
Dibromomethane	Ave	0.1316	0.1223		0.0186	0.0200	-7.0	30.0
Bromodichloromethane	Ave	0.2770	0.2745	0.1500	0.0198	0.0200	-0.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1146		0.0178	0.0200	-11.2	30.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3342	0.1500	0.0197	0.0200	-1.7	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1278	0.0500	0.0364	0.0400	-9.0	50.0
Toluene	Ave	1.254	1.218	0.4000	0.0194	0.0200	-2.9	30.0
trans-1,3-Dichloropropene	Ave	0.3909	0.3512	0.1000	0.0180	0.0200	-10.2	30.0
Ethyl methacrylate	Ave	0.2932	0.2722		0.0186	0.0200	-7.2	30.0
1,1,2-Trichloroethane	Ave	0.2394	0.2289	0.1000	0.0191	0.0200	-4.4	30.0
Tetrachloroethene	Ave	0.2814	0.2708	0.1500	0.0192	0.0200	-3.8	30.0
1,3-Dichloropropane	Ave	0.4145	0.3957		0.0191	0.0200	-4.5	30.0
2-Hexanone	Ave	0.1247	0.1078	0.0500	0.0346	0.0400	-13.6	50.0
Dibromochloromethane	Ave	0.2667	0.2578		0.0193	0.0200	-3.3	30.0
1,2-Dibromoethane	Ave	0.2447	0.2341		0.0191	0.0200	-4.3	30.0
Chlorobenzene	Ave	0.8600	0.8278	0.3000	0.0193	0.0200	-3.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2770		0.0195	0.0200	-2.7	30.0
Ethylbenzene	Ave	0.4675	0.4578		0.0196	0.0200	-2.1	30.0
m-Xylene & p-Xylene	Ave	0.5742	0.5611		0.0195	0.0200	-2.3	30.0
o-Xylene	Ave	0.5485	0.5397		0.0197	0.0200	-1.6	30.0
Styrene	Ave	0.9033	0.9110	0.3000	0.0202	0.0200	0.9	30.0
Bromoform	Ave	0.1818	0.1599	0.1000	0.0176	0.0200	-12.0	30.0
Isopropylbenzene	Ave	1.400	1.423	0.1000	0.0203	0.0200	1.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.4850	0.3000	0.0190	0.0200	-4.9	30.0
Bromobenzene	Ave	0.6625	0.6290		0.0190	0.0200	-5.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1374		0.0188	0.0200	-5.8	30.0
1,2,3-Trichloropropane	Ave	0.1803	0.1687		0.0187	0.0200	-6.4	30.0
n-Propylbenzene	Ave	0.7465	0.7443		0.0199	0.0200	-0.3	30.0
2-Chlorotoluene	Ave	0.6294	0.6260		0.0199	0.0200	-0.5	30.0
1,3,5-Trimethylbenzene	Ave	2.020	2.084		0.0206	0.0200	3.2	30.0
4-Chlorotoluene	Ave	0.6506	0.6585		0.0202	0.0200	1.2	30.0
tert-Butylbenzene	Ave	1.852	1.855		0.0200	0.0200	0.2	30.0
1,2,4-Trimethylbenzene	Ave	1.990	2.075		0.0209	0.0200	4.3	30.0
sec-Butylbenzene	Ave	2.659	2.745		0.0206	0.0200	3.2	30.0
1,3-Dichlorobenzene	Ave	1.270	1.219	0.6000	0.0192	0.0200	-4.0	30.0
p-Isopropyltoluene	Ave	2.297	2.390		0.0208	0.0200	4.1	30.0
1,4-Dichlorobenzene	Ave	1.281	1.227	0.5000	0.0192	0.0200	-4.2	30.0
n-Butylbenzene	Ave	1.953	2.025		0.0207	0.0200	3.7	30.0
1,2-Dichlorobenzene	Ave	1.174	1.092	0.4000	0.0186	0.0200	-7.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1072	0.0500	0.0185	0.0200	-7.4	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6161	0.2000	0.0184	0.0200	-8.0	50.0
Hexachlorobutadiene	Ave	0.3403	0.3373		0.0198	0.0200	-0.9	50.0
Naphthalene	Ave	1.500	1.390		0.0185	0.0200	-7.3	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5563		0.0186	0.0200	-7.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.2550		0.0234	0.0200	17.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2595		0.0220	0.0200	10.0	30.0
Toluene-d8 (Surr)	Ave	1.075	1.286		0.0239	0.0200	19.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.5080		0.0262	0.0200	30.9*	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31029.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Sep-2020 15:15:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-016
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:27 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 15:37:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	937717	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	83	743116	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	412044	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	239101	20.0	23.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	-0.001	97	243383	20.0	22.0	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	955377	20.0	23.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	95	377533	20.0	26.2	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	255660	20.0	22.1	
10 Chloromethane	50	1.909	1.909	-0.001	99	283637	20.0	19.2	
11 Vinyl chloride	62	2.027	2.027	0.000	98	321961	20.0	20.3	
12 Butadiene	54	2.075	2.075	0.000	97	299229	20.0	21.4	
13 Bromomethane	94	2.371	2.371	0.000	89	187443	20.0	18.4	
14 Chloroethane	64	2.490	2.490	0.000	99	165464	20.0	19.6	
15 Dichlorofluoromethane	67	2.727	2.727	0.000	97	380512	20.0	21.2	
16 Trichlorofluoromethane	101	2.750	2.750	0.000	97	350081	20.0	22.1	
17 Ethyl ether	59	3.035	3.035	0.000	87	141972	20.0	19.0	
18 Acrolein	56	3.177	3.177	0.000	100	32397	100.0	57.9	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	97	187496	20.0	19.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	165184	20.0	21.8	
21 Acetone	58	3.308	3.308	0.000	100	26717	40.0	31.9	
23 Iodomethane	142	3.415	3.415	0.000	97	254911	20.0	17.2	
24 Carbon disulfide	76	3.474	3.474	0.000	99	574962	20.0	18.6	
27 Methyl acetate	43	3.604	3.604	0.000	96	205693	40.0	35.4	
26 3-Chloro-1-propene	41	3.616	3.616	0.000	85	235848	20.0	18.7	
28 Methylene Chloride	84	3.735	3.735	0.000	88	212021	20.0	18.6	
29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	122303	200.0	165.3	
30 Acrylonitrile	53	3.948	3.948	0.000	99	615641	200.0	179.3	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	500717	20.0	18.8	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	219864	20.0	19.3	
33 Hexane	57	4.233	4.221	0.012	89	291546	20.0	23.5	
35 Vinyl acetate	43	4.363	4.363	0.000	97	239004	20.0	15.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	332764	20.0	18.9	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	36362	40.0	33.0	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	237435	20.0	19.6	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	87	301777	20.0	20.0	
45 Chlorobromomethane	128	5.087	5.087	0.000	87	107118	20.0	18.7	
46 Tetrahydrofuran	42	5.087	5.087	0.000	82	77693	40.0	35.2	
47 Chloroform	83	5.158	5.158	0.000	93	344462	20.0	19.0	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	315296	20.0	19.7	
49 Cyclohexane	56	5.371	5.371	0.000	85	327336	20.0	21.8	
51 Carbon tetrachloride	117	5.442	5.442	0.000	92	279188	20.0	19.6	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	278142	20.0	19.6	
52 Isobutyl alcohol	41	5.502	5.502	0.000	94	92634	500.0	407.9	
54 Benzene	78	5.620	5.620	0.000	96	830339	20.0	19.3	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	244548	20.0	18.7	
56 n-Heptane	57	5.846	5.846	0.000	91	182434	20.0	22.6	
58 Trichloroethene	130	6.178	6.178	0.000	94	245708	20.0	19.2	
60 Methylcyclohexane	83	6.391	6.391	0.000	87	380698	20.0	21.6	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	190246	20.0	19.5	
64 1,4-Dioxane	88	6.462	6.462	0.000	88	41061	400.0	357.4	
63 Dibromomethane	93	6.486	6.486	0.000	90	114695	20.0	18.6	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	257392	20.0	19.8	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	107446	20.0	17.8	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	97	313364	20.0	19.7	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	239705	40.0	36.4	
70 Toluene	91	7.316	7.316	0.000	99	904769	20.0	19.4	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	91	261003	20.0	18.0	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	202274	20.0	18.6	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	170107	20.0	19.1	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	201223	20.0	19.2	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	89	294046	20.0	19.1	
76 2-Hexanone	43	7.873	7.873	0.000	94	160159	40.0	34.6	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	191556	20.0	19.3	
80 Ethylene Dibromide	107	8.170	8.170	0.000	98	173995	20.0	19.1	
82 Chlorobenzene	112	8.620	8.620	0.000	97	615135	20.0	19.3	
84 Ethylbenzene	106	8.703	8.703	0.000	97	340215	20.0	19.6	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	94	205875	20.0	19.5	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	416961	20.0	19.5	
86 o-Xylene	106	9.201	9.190	0.011	95	401063	20.0	19.7	
87 Styrene	104	9.213	9.213	0.000	96	676982	20.0	20.2	
88 Bromoform	173	9.403	9.403	0.000	98	118858	20.0	17.6	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	1057229	20.0	20.3	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	199842	20.0	19.0	
93 Bromobenzene	156	9.866	9.866	0.000	90	259169	20.0	19.0	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	74	56598	20.0	18.8	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	81	69494	20.0	18.7	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	306690	20.0	19.9	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	257934	20.0	19.9	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	858851	20.0	20.6	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	271314	20.0	20.2	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	764431	20.0	20.0	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	855191	20.0	20.9	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	1131105	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	0.000	98	502230	20.0	19.2	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	984883	20.0	20.8	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	505572	20.0	19.2	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	834542	20.0	20.7	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	449852	20.0	18.6	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	90	44175	20.0	18.5	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	253847	20.0	18.4	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	97	138988	20.0	19.8	
117 Naphthalene	128	13.150	13.150	0.000	96	572773	20.0	18.5	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	95	229230	20.0	18.6	
S 134 Trihalomethanes, Total	1				0		80.0	75.7	
S 158 Total BTEX	1				0		100.0	97.5	
S 133 Xylenes, Total	106				0		40.0	39.2	

Reagents:

vmfasgw_00375	Amount Added: 16.00	Units: uL		
vmfasaw_00342	Amount Added: 16.00	Units: uL		
vmfaspw_00365	Amount Added: 16.00	Units: uL		
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00167	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00085	Amount Added: 2.00	Units: uL	Run Reagent	

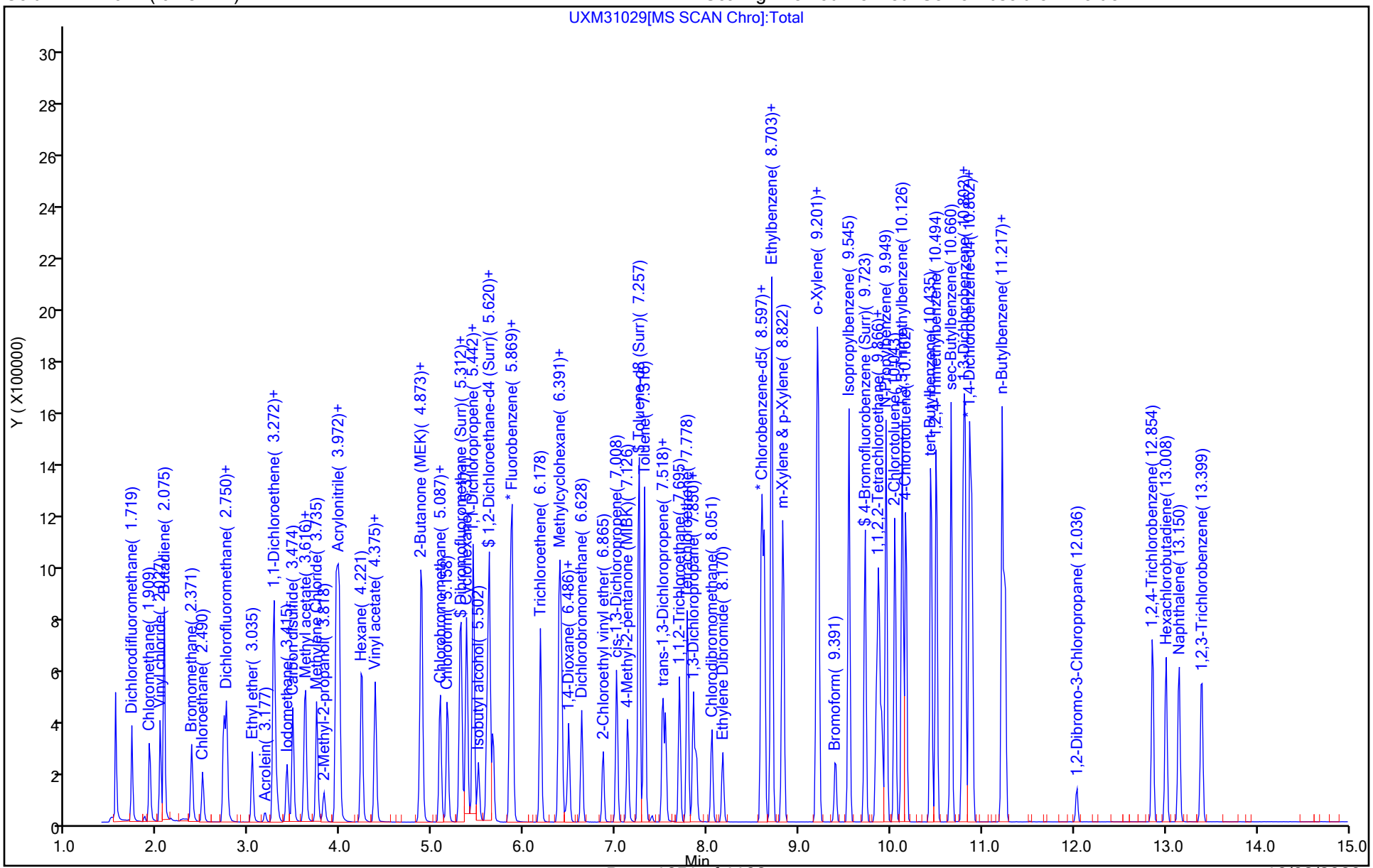
Report Date: 08-Sep-2020 15:53:38 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31029.D

Injection Date:	08-Sep-2020 15:15:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/25 Calibration Date: 09/08/2020 18:58

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31038.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2180	0.2608		0.0239	0.0200	19.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2720		0.0231	0.0200	15.3	30.0
Toluene-d8 (Surr)	Ave	1.075	1.266		0.0235	0.0200	17.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.4944		0.0255	0.0200	27.4	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31038.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 08-Sep-2020 18:58:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-025
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:44 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:30:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	909527	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	734035	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	394515	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	237174	20.0	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	0.000	98	247416	20.0	23.1	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	929322	20.0	23.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	362893	20.0	25.5	
25 Acetonitrile	41	3.581	3.581	0.000	99	207090	200.0	188.7	
36 Isopropyl ether	87	4.399	4.399	0.000	90	165794	20.0	20.5	
37 2-Chloro-1,3-butadiene	53	4.435	4.446	-0.011	90	259046	20.0	19.6	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	478904	20.0	20.2	
43 Ethyl acetate	43	4.885	4.885	0.000	98	261214	40.0	41.2	
42 Propionitrile	54	4.921	4.921	0.000	99	254756	200.0	206.5	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	930193	200.0	202.5	
163 Isooctane	57	5.703	5.703	0.000	96	502675	20.0	19.1	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	489103	20.0	20.9	
57 n-Butanol	56	6.059	6.059	0.000	85	86037	500.0	430.9	
59 Ethyl acrylate	55	6.225	6.225	0.000	98	180358	20.0	21.0	
62 Methyl methacrylate	41	6.427	6.427	0.000	82	239183	40.0	42.4	
66 2-Nitropropane	41	6.818	6.818	0.000	100	72320	40.0	40.1	
77 n-Butyl acetate	43	7.968	7.968	0.000	94	180420	20.0	20.1	
81 1-Chlorohexane	91	8.585	8.585	0.000	93	295396	20.0	19.3	
91 Cyclohexanone	55	9.640	9.640	0.000	89	47947	200.0	212.8	
103 Pentachloroethane	167	10.482	10.482	0.000	94	121171	40.0	33.2	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	813989	20.0	21.1	
110 Benzyl chloride	126	11.004	11.004	0.000	99	68783	20.0	16.6	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	324479	20.0	19.9	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	438412	40.0	37.3	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	419204	40.0	39.5	

Reagents:

VMFASA9W_00290	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00167	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent

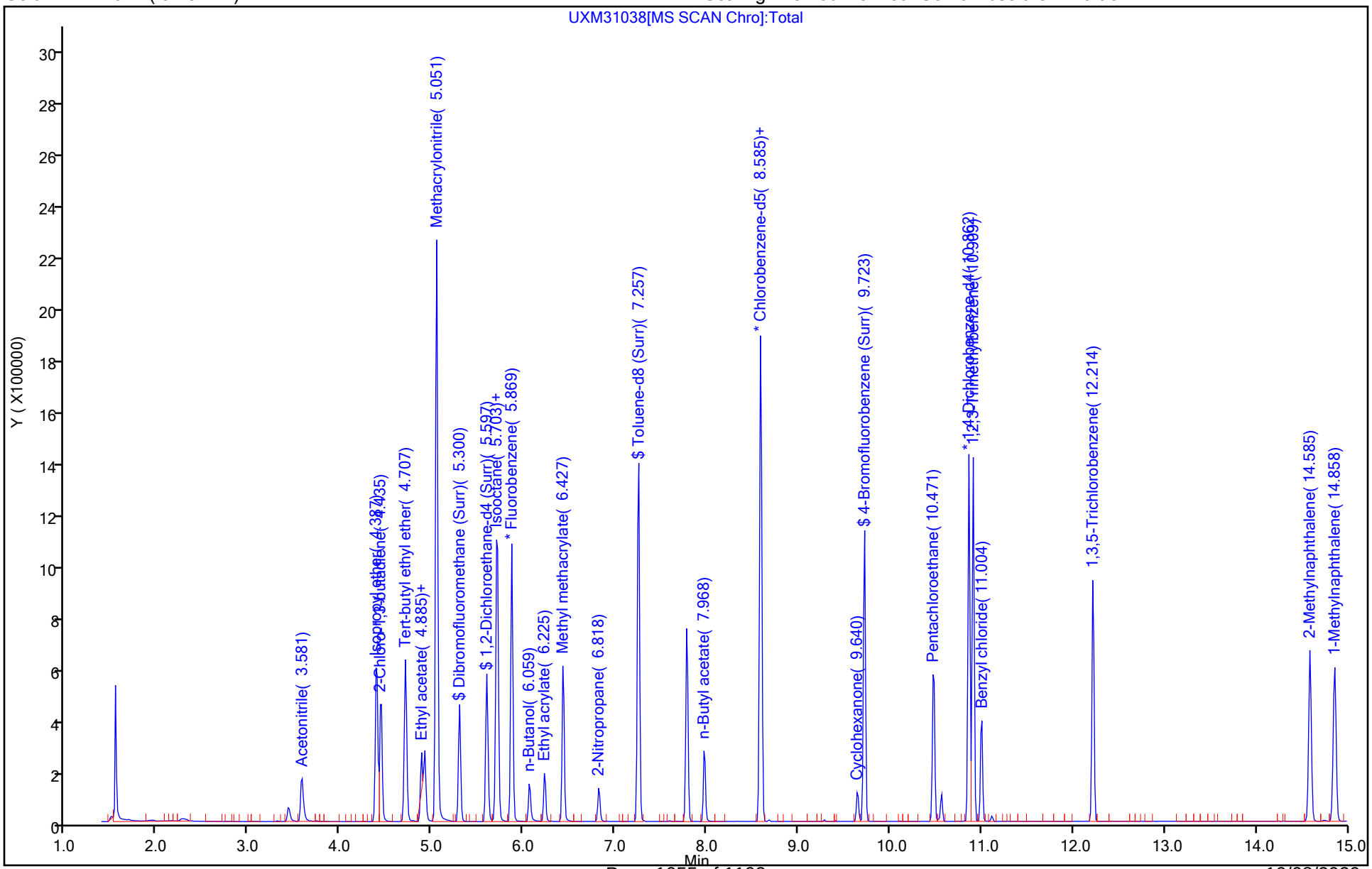
Report Date: 09-Sep-2020 08:31:46 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31038.D

Injection Date:	08-Sep-2020 18:58:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV a9			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: ICV 240-450378/25 Calibration Date: 09/08/2020 18:58

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM31038.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0228		0.189	0.200	-5.7	30.0
Diisopropyl ether	Ave	0.1780	0.1823		0.0205	0.0200	2.4	30.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.2848		0.0196	0.0200	-2.0	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.5265		0.0202	0.0200	0.8	30.0
Ethyl acetate	Ave	0.1396	0.1436		0.0412	0.0400	2.9	30.0
Propionitrile	Ave	0.0271	0.0280		0.207	0.200	3.3	30.0
Methacrylonitrile	Ave	0.1010	0.1023		0.202	0.200	1.2	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.5378		0.0209	0.0200	4.4	30.0
n-Butanol	Lin1		0.0038		0.431	0.500	-13.8	30.0
Ethyl acrylate	Ave	0.1885	0.1983		0.0210	0.0200	5.2	30.0
Methyl methacrylate	Ave	0.1240	0.1315		0.0424	0.0400	6.0	30.0
2-Nitropropane	Ave	0.0396	0.0398		0.0401	0.0400	0.3	30.0
n-Butyl acetate	Ave	0.1978	0.1984		0.0201	0.0200	0.3	30.0
1-Chlorohexane	Ave	0.4164	0.4024		0.0193	0.0200	-3.4	30.0
Cyclohexanone	Ave	0.0114	0.0122		0.213	0.200	6.4	30.0
Pentachloroethane	Ave	0.0994	0.0825		0.0332	0.0400	-17.0	30.0
1,2,3-Trimethylbenzene	Ave	1.959	2.063		0.0211	0.0200	5.3	30.0
Benzyl chloride	Ave	0.2096	0.1743		0.0166	0.0200	-16.8	30.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.8225		0.0199	0.0200	-0.7	30.0
2-Methylnaphthalene	Ave	0.5961	0.5556		0.0373	0.0400	-6.8	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31038.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 08-Sep-2020 18:58:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-025
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:44 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:30:38

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	909527	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	734035	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	394515	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	237174	20.0	23.9	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	0.000	98	247416	20.0	23.1	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	929322	20.0	23.5	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	362893	20.0	25.5	
	25 Acetonitrile	41	3.581	3.581	0.000	99	207090	200.0	188.7	
	36 Isopropyl ether	87	4.399	4.399	0.000	90	165794	20.0	20.5	
	37 2-Chloro-1,3-butadiene	53	4.435	4.446	-0.011	90	259046	20.0	19.6	
	38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	478904	20.0	20.2	
	43 Ethyl acetate	43	4.885	4.885	0.000	98	261214	40.0	41.2	
	42 Propionitrile	54	4.921	4.921	0.000	99	254756	200.0	206.5	
	44 Methacrylonitrile	41	5.051	5.051	0.000	88	930193	200.0	202.5	
	163 Isooctane	57	5.703	5.703	0.000	96	502675	20.0	19.1	
	55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	489103	20.0	20.9	
	57 n-Butanol	56	6.059	6.059	0.000	85	86037	500.0	430.9	
	59 Ethyl acrylate	55	6.225	6.225	0.000	98	180358	20.0	21.0	
	62 Methyl methacrylate	41	6.427	6.427	0.000	82	239183	40.0	42.4	
	66 2-Nitropropane	41	6.818	6.818	0.000	100	72320	40.0	40.1	
	77 n-Butyl acetate	43	7.968	7.968	0.000	94	180420	20.0	20.1	
	81 1-Chlorohexane	91	8.585	8.585	0.000	93	295396	20.0	19.3	
	91 Cyclohexanone	55	9.640	9.640	0.000	89	47947	200.0	212.8	
	103 Pentachloroethane	167	10.482	10.482	0.000	94	121171	40.0	33.2	
	109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	813989	20.0	21.1	
	110 Benzyl chloride	126	11.004	11.004	0.000	99	68783	20.0	16.6	
	114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	324479	20.0	19.9	
	119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	438412	40.0	37.3	
	162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	419204	40.0	39.5	

Reagents:

VMFASA9W_00290	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00167	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent

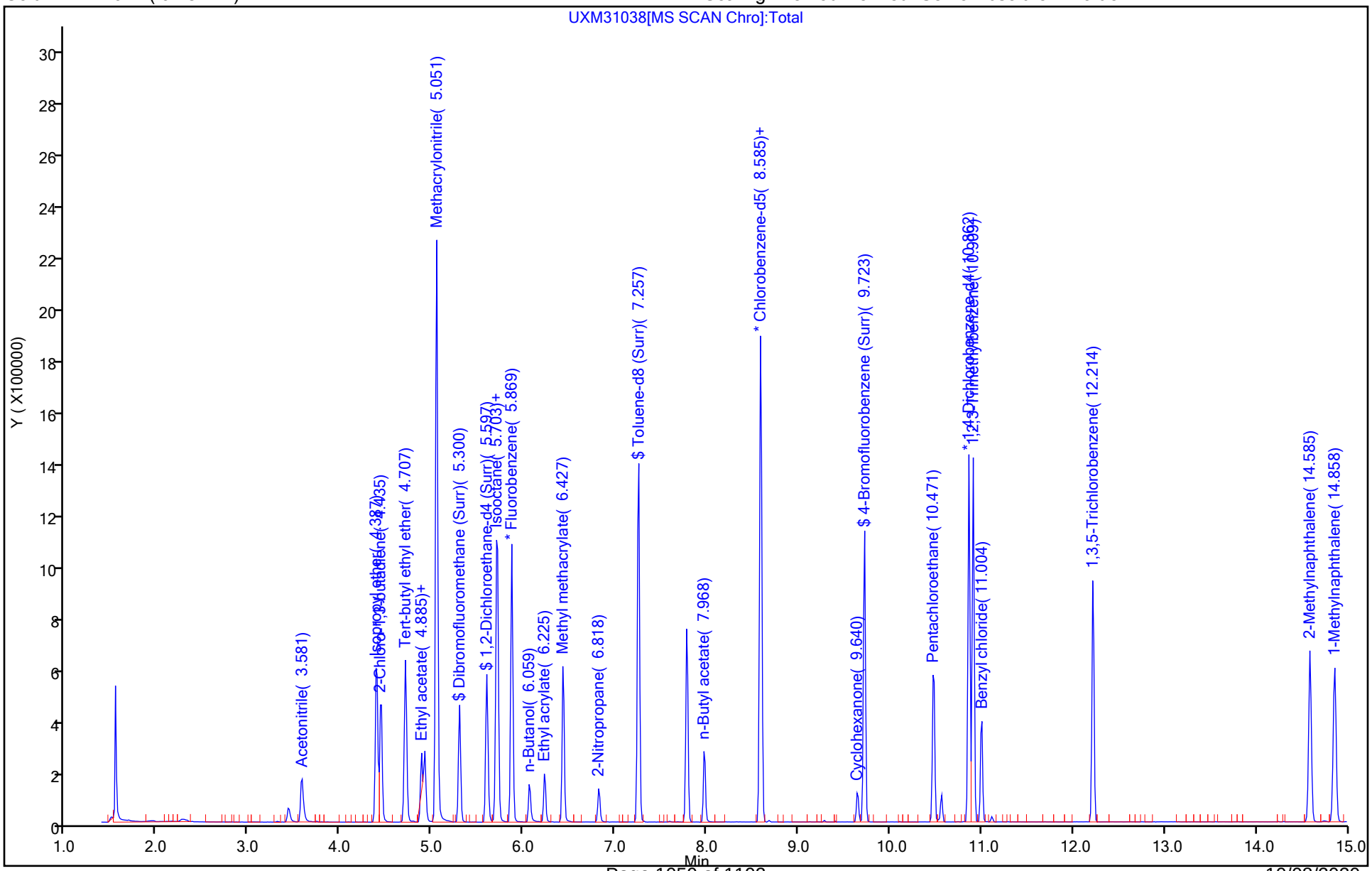
Report Date: 09-Sep-2020 08:31:46 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31038.D

Injection Date:	08-Sep-2020 18:58:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV a9			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCV 240-453487/4 Calibration Date: 09/29/2020 09:47

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM31387.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0252		0.209	0.200	4.5	20.0
Diisopropyl ether	Ave	0.1780	0.1630		0.0183	0.0200	-8.5	20.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.2895		0.0199	0.0200	-0.4	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.5048		0.0193	0.0200	-3.3	20.0
Ethyl acetate	Ave	0.1396	0.1447		0.0415	0.0400	3.6	20.0
Propionitrile	Ave	0.0271	0.0267		0.197	0.200	-1.4	20.0
Methacrylonitrile	Ave	0.1010	0.1024		0.203	0.200	1.4	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.4879		0.0190	0.0200	-5.2	20.0
n-Butanol	Lin1		0.0036		0.407	0.500	-18.7	20.0
Ethyl acrylate	Ave	0.1885	0.1808		0.0192	0.0200	-4.1	20.0
Methyl methacrylate	Ave	0.1240	0.1315		0.0424	0.0400	6.1	20.0
2-Nitropropane	Ave	0.0396	0.0399		0.0403	0.0400	0.8	20.0
n-Butyl acetate	Ave	0.1978	0.1916		0.0194	0.0200	-3.1	20.0
1-Chlorohexane	Ave	0.4164	0.3859		0.0185	0.0200	-7.3	20.0
Cyclohexanone	Ave	0.0114	0.0107		0.188	0.200	-6.2	20.0
Pentachloroethane	Ave	0.0994	0.1174		0.0473	0.0400	18.1	20.0
1,2,3-Trimethylbenzene	Ave	1.959	1.766		0.0180	0.0200	-9.9	20.0
Benzyl chloride	Ave	0.2096	0.1834		0.0175	0.0200	-12.5	20.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.7806		0.0189	0.0200	-5.7	20.0
2-Methylnaphthalene	Ave	0.5961	0.5355		0.0359	0.0400	-10.2	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31387.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 29-Sep-2020 09:47:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102406-004
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 10:05:22 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 10:05:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	876540	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	85	705466	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	386736	20.0	20.0	
25 Acetonitrile	41	3.569	3.569	0.000	98	221034	200.0	208.9	
36 Isopropyl ether	87	4.387	4.387	0.000	92	142839	20.0	18.3	
37 2-Chloro-1,3-butadiene	53	4.434	4.434	0.000	91	253749	20.0	19.9	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	97	442441	20.0	19.3	
43 Ethyl acetate	43	4.885	4.885	0.000	98	253588	40.0	41.5	
42 Propionitrile	54	4.921	4.921	0.000	99	234460	200.0	197.2	
44 Methacrylonitrile	41	5.051	5.051	0.000	90	897787	200.0	202.8	
163 Isooctane	57	5.703	5.703	0.000	97	599780	20.0	23.7	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	427706	20.0	19.0	
57 n-Butanol	56	6.059	6.059	0.000	85	78017	500.0	406.5	
59 Ethyl acrylate	55	6.225	6.225	0.000	99	158482	20.0	19.2	
62 Methyl methacrylate	41	6.427	6.427	0.000	85	230581	40.0	42.4	
66 2-Nitropropane	41	6.818	6.818	0.000	98	70004	40.0	40.3	
77 n-Butyl acetate	43	7.968	7.968	0.000	95	167940	20.0	19.4	
81 1-Chlorohexane	91	8.585	8.585	0.000	96	272223	20.0	18.5	
91 Cyclohexanone	55	9.640	9.640	0.000	90	41456	200.0	187.7	
103 Pentachloroethane	167	10.482	10.482	0.000	93	165687	40.0	47.3	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	683147	20.0	18.0	
110 Benzyl chloride	126	11.004	11.004	0.000	99	70934	20.0	17.5	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	97	301880	20.0	18.9	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	414226	40.0	35.9	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	355126	40.0	34.1	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00362	Amount Added:	16.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

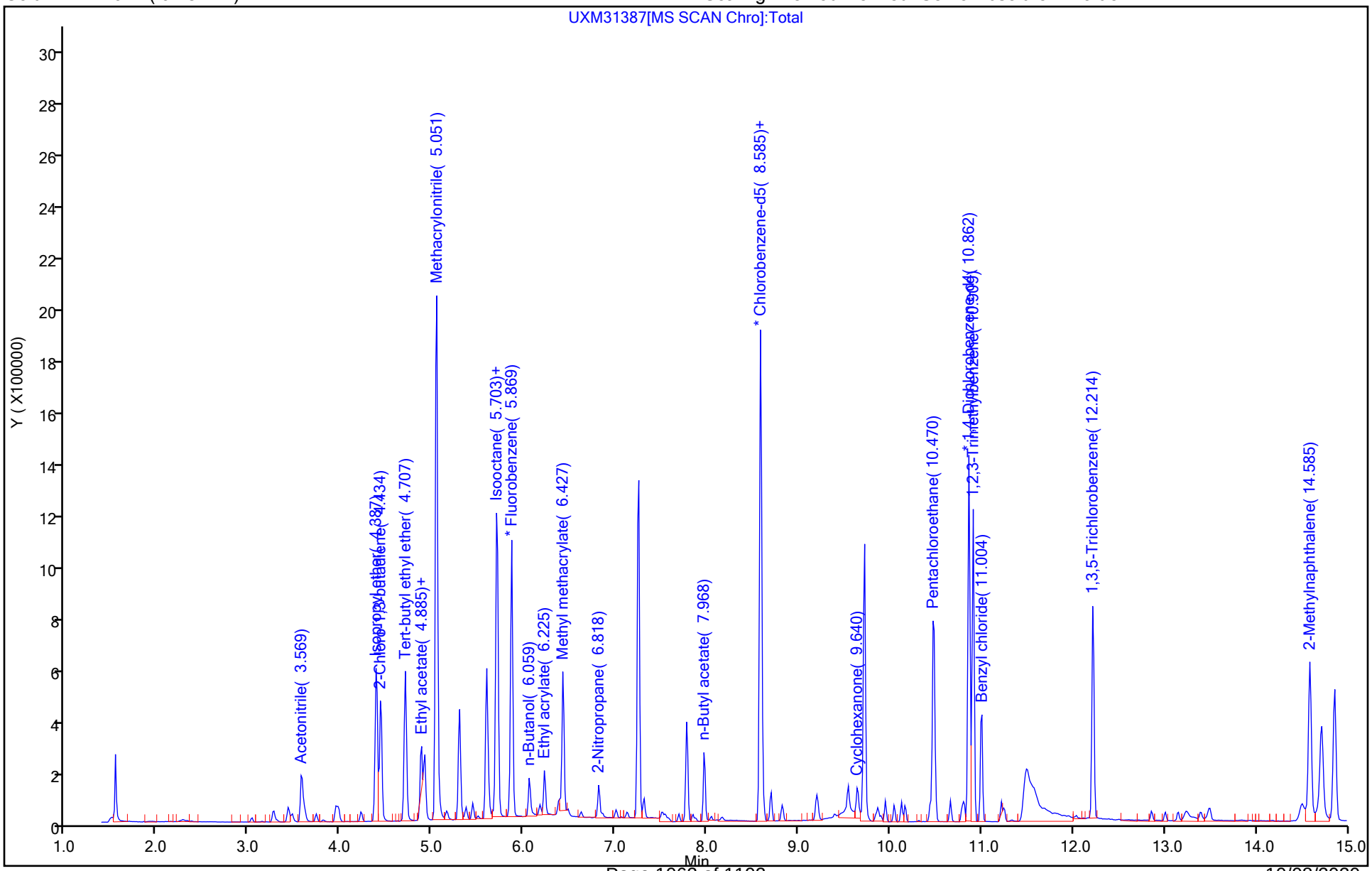
Report Date: 29-Sep-2020 10:05:23 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31387.D

Injection Date:	29-Sep-2020 09:47:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	CCV A9			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453487/5 Calibration Date: 09/29/2020 10:12

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31388.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.2572	0.1000	0.0208	0.0200	4.1	20.0
Chloromethane	Ave	0.3154	0.2855	0.1000	0.0181	0.0200	-9.5	20.0
Vinyl chloride	Ave	0.3384	0.3349	0.1000	0.0198	0.0200	-1.0	20.0
Butadiene	Ave	0.2983	0.3096		0.0208	0.0200	3.8	20.0
Bromomethane	Ave	0.2173	0.1162	0.0500	0.0107	0.0200	-46.5*	20.0
Chloroethane	Ave	0.1802	0.1728	0.0500	0.0192	0.0200	-4.1	20.0
Dichlorofluoromethane	Ave	0.3832	0.3796		0.0198	0.0200	-0.9	20.0
Trichlorofluoromethane	Ave	0.3386	0.3462	0.1000	0.0205	0.0200	2.3	20.0
Ethyl ether	Ave	0.1595	0.1475		0.0185	0.0200	-7.6	20.0
Acrolein	Ave	0.0119	0.0145		0.121	0.100	21.2*	20.0
1,1-Dichloroethene	Ave	0.2049	0.1720	0.1000	0.0168	0.0200	-16.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.1598	0.0500	0.0198	0.0200	-1.1	20.0
Acetone	Ave	0.0178	0.0180	0.0100	0.0404	0.0400	1.0	50.0
Iodomethane	Ave	0.3163	0.0845		0.00534	0.0200	-73.3*	20.0
Carbon disulfide	Ave	0.6609	0.5593	0.1000	0.0169	0.0200	-15.4	20.0
Methyl acetate	Ave	0.1238	0.1314	0.1000	0.0424	0.0400	6.1	50.0
3-Chloro-1-propene	Ave	0.2690	0.2538		0.0189	0.0200	-5.6	20.0
Methylene Chloride	Ave	0.2433	0.2030	0.1000	0.0167	0.0200	-16.5	50.0
tert-Butyl alcohol	Ave	0.0158	0.0171		0.217	0.200	8.4	20.0
Acrylonitrile	Ave	0.0732	0.0762		0.208	0.200	4.1	20.0
Methyl tert-butyl ether	Ave	0.5668	0.5453	0.1000	0.0192	0.0200	-3.8	20.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2071	0.1000	0.0171	0.0200	-14.6	20.0
Hexane	Ave	0.2648	0.2916		0.0220	0.0200	10.1	20.0
1,1-Dichloroethane	Ave	0.3751	0.3429	0.2000	0.0183	0.0200	-8.6	20.0
Vinyl acetate	Lin1		0.3111		0.0193	0.0200	-3.5	20.0
2-Butanone	Lin1		0.0233	0.0100	0.0395	0.0400	-1.3	50.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2211	0.1000	0.0171	0.0200	-14.6	20.0
2,2-Dichloropropane	Ave	0.3219	0.2933		0.0182	0.0200	-8.9	20.0
Bromochloromethane	Ave	0.1223	0.1059		0.0173	0.0200	-13.4	20.0
Tetrahydrofuran	Ave	0.0470	0.0520		0.0442	0.0400	10.5	20.0
Chloroform	Ave	0.3871	0.3393	0.2000	0.0175	0.0200	-12.4	20.0
1,1,1-Trichloroethane	Ave	0.3419	0.2973	0.1000	0.0174	0.0200	-13.0	20.0
Cyclohexane	Ave	0.3195	0.3264	0.1000	0.0204	0.0200	2.1	20.0
1,1-Dichloropropene	Ave	0.3034	0.2796		0.0184	0.0200	-7.8	20.0
Carbon tetrachloride	Ave	0.3037	0.2544	0.1000	0.0168	0.0200	-16.2	20.0
Isobutyl alcohol	Lin1		0.0055		0.566	0.500	13.2	20.0
Benzene	Ave	0.9186	0.8384	0.5000	0.0183	0.0200	-8.7	20.0
1,2-Dichloroethane	Ave	0.2786	0.2596	0.1000	0.0186	0.0200	-6.8	20.0
n-Heptane	Lin1		0.1874		0.0216	0.0200	8.1	20.0
Trichloroethene	Ave	0.2729	0.2286	0.1500	0.0168	0.0200	-16.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453487/5 Calibration Date: 09/29/2020 10:12

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31388.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.3742	0.1000	0.0199	0.0200	-0.6	20.0
1,2-Dichloropropane	Ave	0.2086	0.1951	0.1000	0.0187	0.0200	-6.5	20.0
1,4-Dioxane	Ave	0.0025	0.0025		0.402	0.400	0.6	50.0
Dibromomethane	Ave	0.1316	0.1164		0.0177	0.0200	-11.5	20.0
Bromodichloromethane	Ave	0.2770	0.2411	0.1500	0.0174	0.0200	-12.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1228		0.0381	0.0400	-4.8	20.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3142	0.1500	0.0185	0.0200	-7.6	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1475	0.0500	0.0420	0.0400	5.0	50.0
Toluene	Ave	1.254	1.143	0.4000	0.0182	0.0200	-8.9	20.0
trans-1,3-Dichloropropene	Ave	0.3909	0.3710	0.1000	0.0190	0.0200	-5.1	20.0
Ethyl methacrylate	Ave	0.2932	0.2798		0.0191	0.0200	-4.5	20.0
1,1,2-Trichloroethane	Ave	0.2394	0.2230	0.1000	0.0186	0.0200	-6.9	20.0
Tetrachloroethene	Ave	0.2814	0.2534	0.1500	0.0180	0.0200	-9.9	20.0
1,3-Dichloropropane	Ave	0.4145	0.3963		0.0191	0.0200	-4.4	20.0
2-Hexanone	Ave	0.1247	0.1324	0.0500	0.0425	0.0400	6.2	50.0
Dibromochloromethane	Ave	0.2667	0.2312		0.0173	0.0200	-13.3	20.0
1,2-Dibromoethane	Ave	0.2447	0.2248		0.0184	0.0200	-8.1	20.0
Chlorobenzene	Ave	0.8600	0.7558	0.3000	0.0176	0.0200	-12.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2542		0.0179	0.0200	-10.7	20.0
Ethylbenzene	Ave	0.4675	0.4189		0.0179	0.0200	-10.4	20.0
m-Xylene & p-Xylene	Ave	0.5742	0.5183		0.0181	0.0200	-9.7	20.0
o-Xylene	Ave	0.5485	0.4872		0.0178	0.0200	-11.2	20.0
Styrene	Ave	0.9033	0.8158	0.3000	0.0181	0.0200	-9.7	20.0
Bromoform	Ave	0.1818	0.1504	0.1000	0.0166	0.0200	-17.2	20.0
Isopropylbenzene	Ave	1.400	1.267	0.1000	0.0181	0.0200	-9.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.4796	0.3000	0.0188	0.0200	-6.0	20.0
Bromobenzene	Ave	0.6625	0.5709		0.0172	0.0200	-13.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1405		0.0193	0.0200	-3.7	20.0
1,2,3-Trichloropropane	Ave	0.1803	0.1673		0.0186	0.0200	-7.2	20.0
n-Propylbenzene	Ave	0.7465	0.6551		0.0176	0.0200	-12.2	20.0
2-Chlorotoluene	Ave	0.6294	0.5372		0.0171	0.0200	-14.7	20.0
1,3,5-Trimethylbenzene	Ave	2.020	1.808		0.0179	0.0200	-10.5	20.0
4-Chlorotoluene	Ave	0.6506	0.5709		0.0175	0.0200	-12.3	20.0
tert-Butylbenzene	Ave	1.852	1.631		0.0176	0.0200	-11.9	20.0
1,2,4-Trimethylbenzene	Ave	1.990	1.799		0.0181	0.0200	-9.6	20.0
sec-Butylbenzene	Ave	2.659	2.420		0.0182	0.0200	-9.0	20.0
1,3-Dichlorobenzene	Ave	1.270	1.077	0.6000	0.0170	0.0200	-15.2	20.0
p-Isopropyltoluene	Ave	2.297	2.071		0.0180	0.0200	-9.8	20.0
1,4-Dichlorobenzene	Ave	1.281	1.087	0.5000	0.0170	0.0200	-15.1	20.0
n-Butylbenzene	Ave	1.953	1.809		0.0185	0.0200	-7.4	20.0
1,2-Dichlorobenzene	Ave	1.174	1.028	0.4000	0.0175	0.0200	-12.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Lab Sample ID: CCVIS 240-453487/5 Calibration Date: 09/29/2020 10:12

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31388.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1024	0.0500	0.0177	0.0200	-11.5	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6085	0.2000	0.0182	0.0200	-9.2	50.0
Hexachlorobutadiene	Ave	0.3403	0.3306		0.0194	0.0200	-2.8	50.0
Naphthalene	Ave	1.500	1.333		0.0178	0.0200	-11.1	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5379		0.0179	0.0200	-10.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.1997		0.0228	0.0249	-8.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2283		0.0241	0.0249	-3.2	20.0
Toluene-d8 (Surr)	Ave	1.075	1.056		0.0245	0.0249	-1.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.3978		0.0255	0.0249	2.5	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31388.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Sep-2020 10:12:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102406-005
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 10:36:52 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 10:36:52

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	906648	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	704882	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	407895	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	225560	24.9	22.8	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.596	0.000	97	257951	24.9	24.1	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	93	927236	24.9	24.5	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	96	349351	24.9	25.5	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	100	233191	20.0	20.8	
	10 Chloromethane	50	1.908	1.908	0.000	99	258883	20.0	18.1	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	303606	20.0	19.8	
	12 Butadiene	54	2.074	2.074	0.000	98	280686	20.0	20.8	
	13 Bromomethane	94	2.371	2.371	0.000	90	105394	20.0	10.7	
	14 Chloroethane	64	2.489	2.489	0.000	100	156649	20.0	19.2	
	15 Dichlorofluoromethane	67	2.727	2.727	0.000	97	344138	20.0	19.8	
	16 Trichlorofluoromethane	101	2.750	2.750	0.000	97	313901	20.0	20.5	
	17 Ethyl ether	59	3.035	3.035	0.000	89	133688	20.0	18.5	
	18 Acrolein	56	3.177	3.177	0.000	99	65565	100.0	121.2	
	19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	155979	20.0	16.8	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	90	144852	20.0	19.8	
	21 Acetone	58	3.308	3.308	0.000	99	32683	40.0	40.4	
	23 Iodomethane	142	3.414	3.414	0.000	97	76619	20.0	5.34	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	507121	20.0	16.9	
	27 Methyl acetate	43	3.604	3.604	0.000	97	238237	40.0	42.4	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	86	230105	20.0	18.9	
	28 Methylene Chloride	84	3.735	3.735	0.000	90	184087	20.0	16.7	
	29 2-Methyl-2-propanol	59	3.818	3.818	0.000	100	155019	200.0	216.7	
	30 Acrylonitrile	53	3.948	3.948	0.000	99	691022	200.0	208.2	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	95	494429	20.0	19.2	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	97	187781	20.0	17.1	
	33 Hexane	57	4.233	4.233	0.000	90	264380	20.0	22.0	
	35 Vinyl acetate	43	4.375	4.375	0.000	97	282019	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	310872	20.0	18.3	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	42321	40.0	39.5	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	81	200444	20.0	17.1	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	88	265922	20.0	18.2	
45 Chlorobromomethane	128	5.086	5.086	0.000	90	95984	20.0	17.3	
46 Tetrahydrofuran	42	5.086	5.086	0.000	85	94202	40.0	44.2	
47 Chloroform	83	5.158	5.158	0.000	93	307599	20.0	17.5	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	99	269546	20.0	17.4	
49 Cyclohexane	56	5.371	5.371	0.000	87	295896	20.0	20.4	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	253520	20.0	18.4	
51 Carbon tetrachloride	117	5.442	5.442	0.000	87	230687	20.0	16.8	
52 Isobutyl alcohol	41	5.502	5.502	0.000	92	124945	500.0	566.2	
54 Benzene	78	5.620	5.620	0.000	97	760109	20.0	18.3	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	235325	20.0	18.6	
56 n-Heptane	57	5.845	5.845	0.000	86	169867	20.0	21.6	
58 Trichloroethene	130	6.177	6.177	0.000	96	207256	20.0	16.8	
60 Methylcyclohexane	83	6.391	6.391	0.000	89	339264	20.0	19.9	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	94	176924	20.0	18.7	
64 1,4-Dioxane	88	6.462	6.462	0.000	90	44707	400.0	402.4	
63 Dibromomethane	93	6.486	6.486	0.000	90	105547	20.0	17.7	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	218597	20.0	17.4	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	92	222611	40.0	38.1	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	95	284875	20.0	18.5	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	267502	40.0	42.0	
70 Toluene	91	7.316	7.316	0.000	98	805536	20.0	18.2	
71 trans-1,3-Dichloropropene	75	7.517	7.517	0.000	92	261495	20.0	19.0	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	197257	20.0	19.1	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	91	157155	20.0	18.6	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	178638	20.0	18.0	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	87	279364	20.0	19.1	
76 2-Hexanone	43	7.873	7.873	0.000	95	186623	40.0	42.5	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	162969	20.0	17.3	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	158484	20.0	18.4	
82 Chlorobenzene	112	8.620	8.620	0.000	96	532728	20.0	17.6	
84 Ethylbenzene	106	8.703	8.703	0.000	98	295268	20.0	17.9	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	94	179182	20.0	17.9	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	97	365372	20.0	18.1	
86 o-Xylene	106	9.190	9.190	0.000	97	343429	20.0	17.8	
87 Styrene	104	9.213	9.213	0.000	95	575073	20.0	18.1	
88 Bromoform	173	9.403	9.403	0.000	97	106047	20.0	16.6	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	893424	20.0	18.1	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	195612	20.0	18.8	
93 Bromobenzene	156	9.865	9.865	0.000	91	232874	20.0	17.2	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	77	57309	20.0	19.3	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	68241	20.0	18.6	
96 N-Propylbenzene	120	9.948	9.948	0.000	99	267226	20.0	17.6	
97 2-Chlorotoluene	126	10.043	10.043	0.000	97	219109	20.0	17.1	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	737489	20.0	17.9	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	232872	20.0	17.5	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	665276	20.0	17.6	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	733634	20.0	18.1	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	987239	20.0	18.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.790	10.790	0.000	99	439248	20.0	17.0	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	844756	20.0	18.0	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	443474	20.0	17.0	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	737950	20.0	18.5	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	98	419371	20.0	17.5	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	87	41788	20.0	17.7	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	92	248195	20.0	18.2	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	94	134855	20.0	19.4	
117 Naphthalene	128	13.150	13.150	0.000	96	543703	20.0	17.8	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	95	219421	20.0	17.9	
S 134 Trihalomethanes, Total	1				0		80.0	68.8	
S 158 Total BTEX	1				0		100.0	90.2	
S 133 Xylenes, Total	106				0		40.0	35.8	

QC Flag Legend

Processing Flags

Reagents:

vmrprimw_00405	Amount Added: 16.00	Units: uL	
vmrgas_00356	Amount Added: 16.00	Units: uL	
vmarolistdw_00362	Amount Added: 16.00	Units: uL	
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00181	Amount Added: 0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added: 2.49	Units: uL	Run Reagent

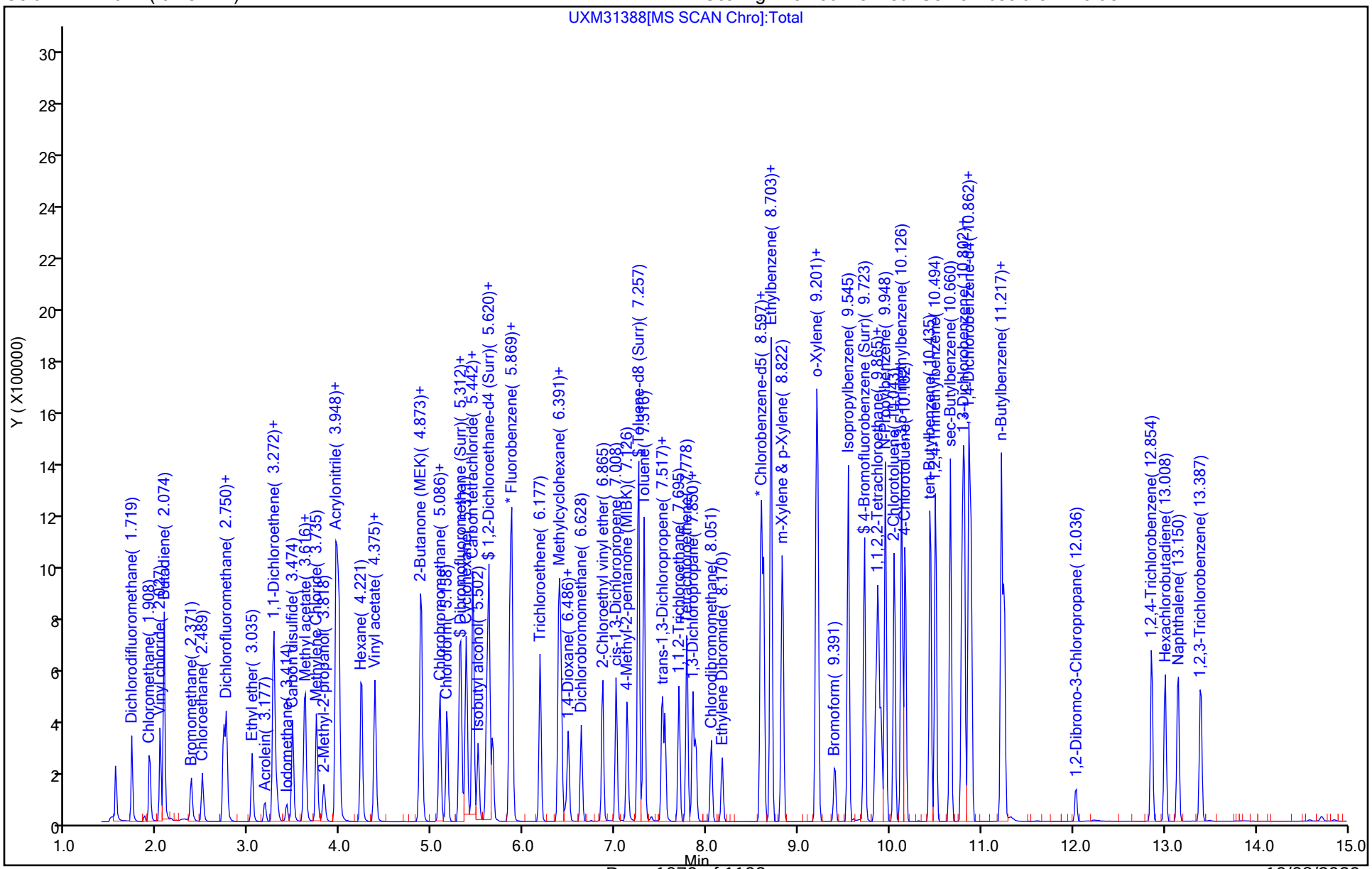
Report Date: 29-Sep-2020 10:36:53 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31388.D

Injection Date:	29-Sep-2020 10:12:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\BFB4108.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Apr-2019 13:47:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0086631-001
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Apr-2019 17:21:58 Calib Date: 30-Apr-2019 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\U1269801.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0333

First Level Reviewer: laveyt Date: 30-Apr-2019 14:30:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.433	3.433	0.000	0	656639	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

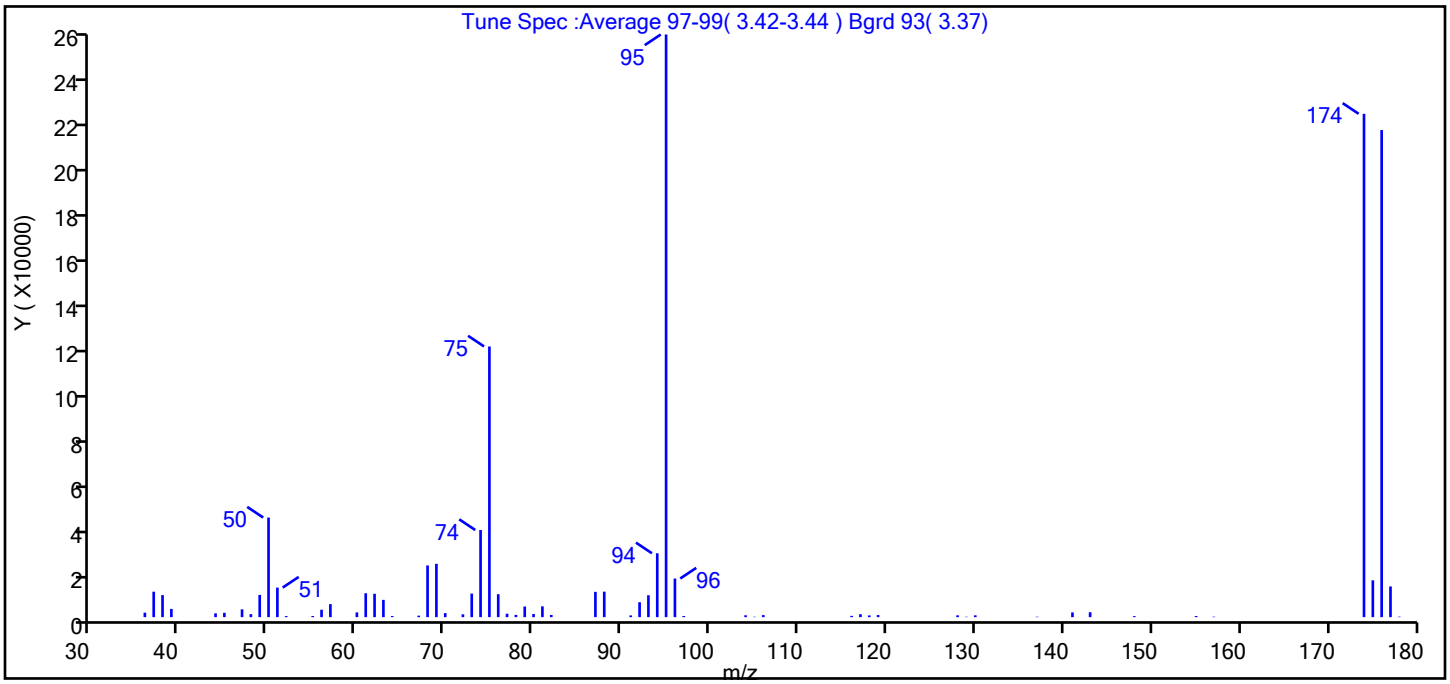
vmbfb_00021 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\BFB4108.D
Injection Date: 30-Apr-2019 13:47:30 Instrument ID: A3UX12
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.1
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.4
175	5 to 9% of m/z 174	6.3 (7.3)
176	Greater than 95% but less than 101% of m/z 174	83.6 (96.8)
177	5 to 9% of m/z 176	5.3 (6.3)

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\BFB4108.D\8260_12_h2o.rslt\spectra.d
Injection Date: 30-Apr-2019 13:47:30
Spectrum: Tune Spec :Average 97-99(3.42-3.44) Bgrd 93(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1949	62.00	10132	82.00	933	128.00	791
37.00	11044	63.00	7504	87.00	10980	129.00	174
38.00	9555	64.00	476	88.00	11070	130.00	792
39.00	3574	67.00	648	91.00	753	137.00	198
44.00	1655	68.00	22440	92.00	6468	141.00	2039
45.00	1879	69.00	23152	93.00	9506	143.00	2139
47.00	3381	70.00	1747	94.00	27720	148.00	438
48.00	1302	72.00	1224	95.00	252864	155.00	497
49.00	9643	73.00	10230	96.00	16760	157.00	207
50.00	43216	74.00	37816	97.00	508	174.00	218432
51.00	12836	75.00	117464	104.00	812	175.00	15985
52.00	474	76.00	9966	105.00	167	176.00	211392
55.00	510	77.00	1482	106.00	890	177.00	13318
56.00	3216	78.00	977	116.00	563	178.00	214
57.00	5655	79.00	4608	117.00	1264		
60.00	2066	80.00	1344	118.00	750		
61.00	10369	81.00	4681	119.00	914		

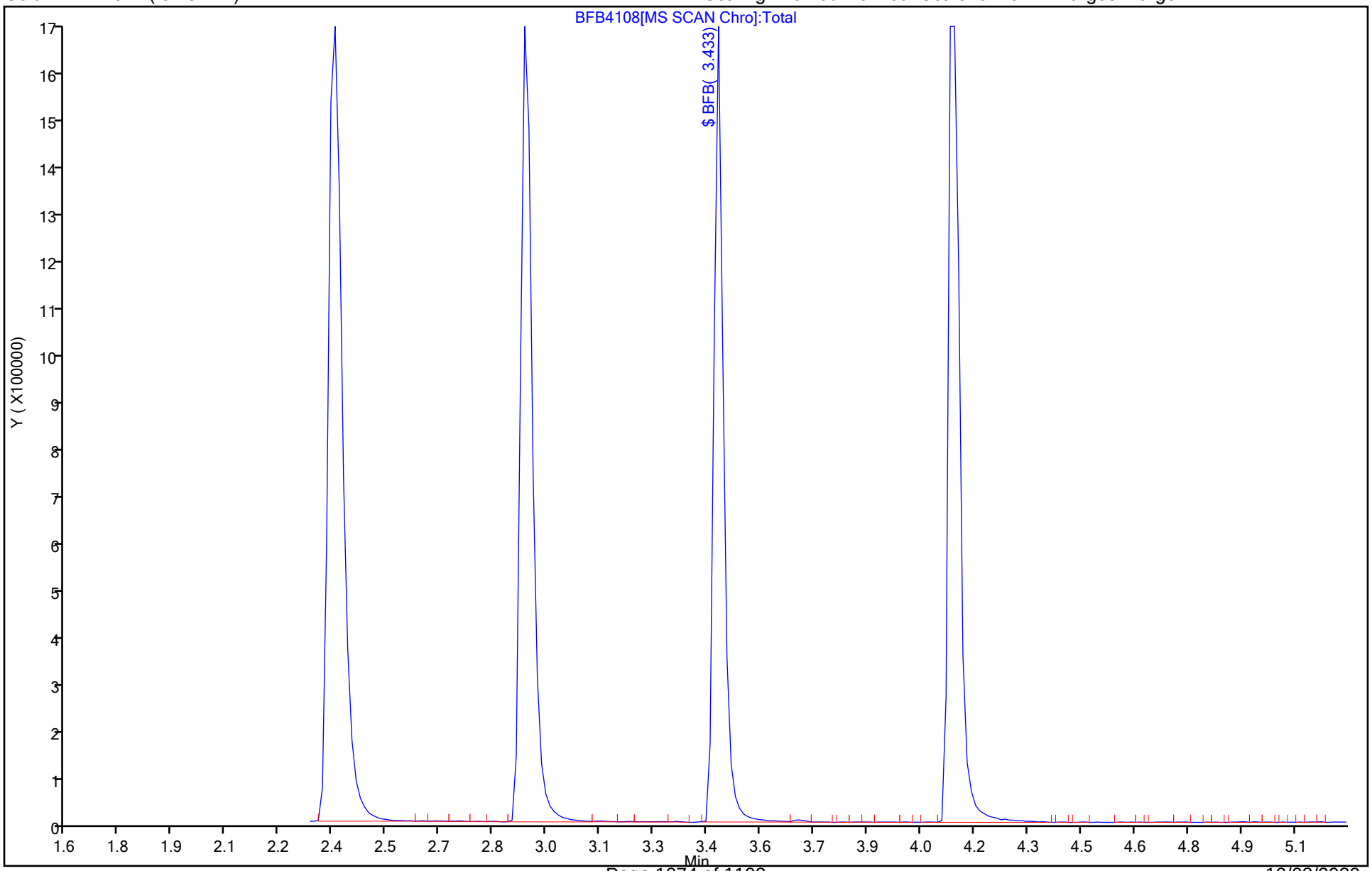
Report Date: 30-Apr-2019 17:21:59 Chrom Revision: 2.3 10-Apr-2019 17:48:54

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX12\20190430-86631.b\BFB4108.D

Injection Date:	30-Apr-2019 13:47:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\BFB4436a.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Jul-2020 16:09:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0100113-001
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Jul-2020 16:51:51 Calib Date: 15-Jul-2020 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200715-100077.b\U1279106.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1017

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.421	3.421	0.000	0	523292	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

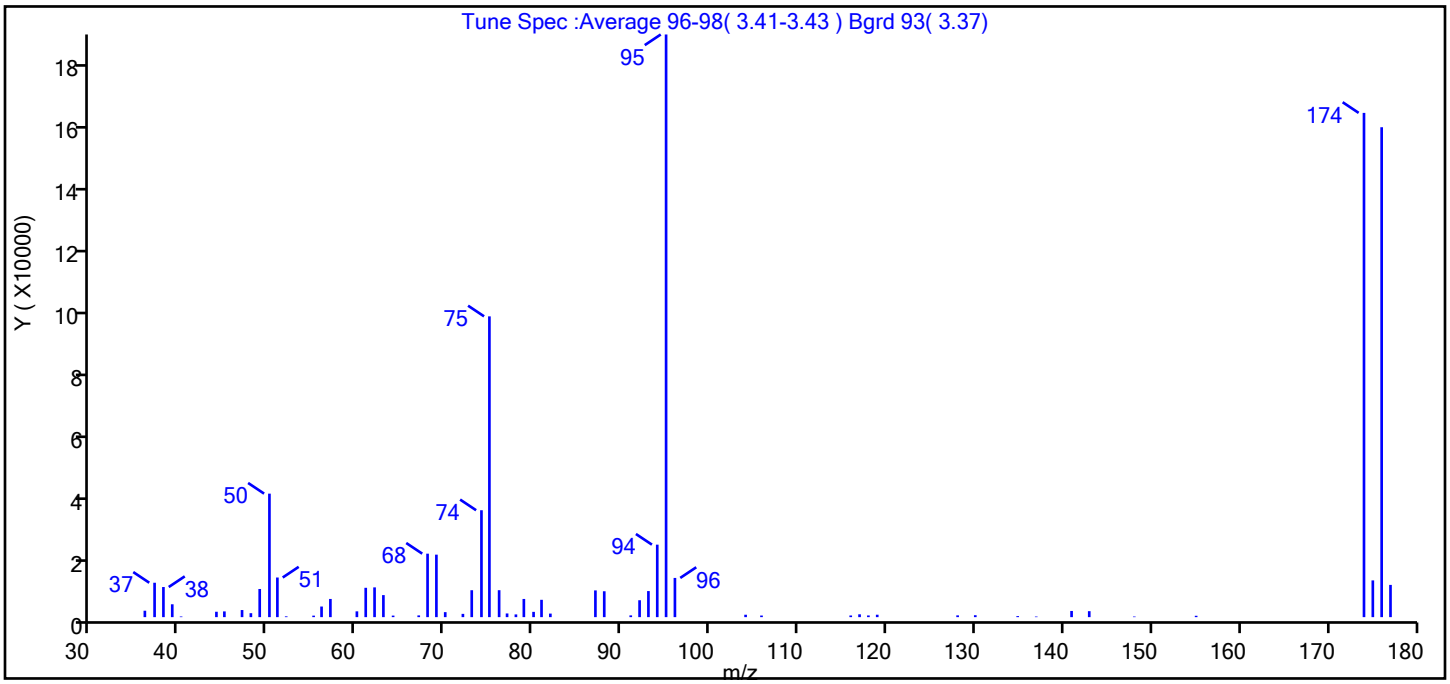
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\BFB4436a.D
Injection Date: 16-Jul-2020 16:09:30 Instrument ID: A3UX12
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.2
75	30 to 60% of m/z 95	51.6
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.5
175	5 to 9% of m/z 174	6.3 (7.3)
176	Greater than 95% but less than 101% of m/z 174	84.1 (97.2)
177	5 to 9% of m/z 176	5.5 (6.6)

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\BFB4436a.D\8260_12_h2o.rslt\spectra.d
Injection Date: 16-Jul-2020 16:09:30
Spectrum: Tune Spec :Average 96-98(3.41-3.43) Bgrd 93(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2092	60.00	1892	79.00	5925	118.00	553
37.00	11204	61.00	9556	80.00	1722	119.00	790
38.00	9809	62.00	9693	81.00	5646	128.00	579
39.00	4190	63.00	7176	82.00	1157	130.00	628
40.00	211	64.00	505	87.00	8707	135.00	337
44.00	1759	67.00	566	88.00	8430	137.00	194
45.00	1870	68.00	20672	91.00	571	141.00	2014
47.00	2314	69.00	20352	92.00	5506	143.00	1946
48.00	1290	70.00	1628	93.00	8490	148.00	196
49.00	9168	72.00	1068	94.00	23608	155.00	446
50.00	40224	73.00	8768	95.00	189760	174.00	164224
51.00	12908	74.00	34816	96.00	12771	175.00	11968
52.00	259	75.00	97960	104.00	786	176.00	159552
55.00	490	76.00	8776	106.00	525	177.00	10502
56.00	3458	77.00	1200	116.00	539		
57.00	5925	78.00	890	117.00	922		

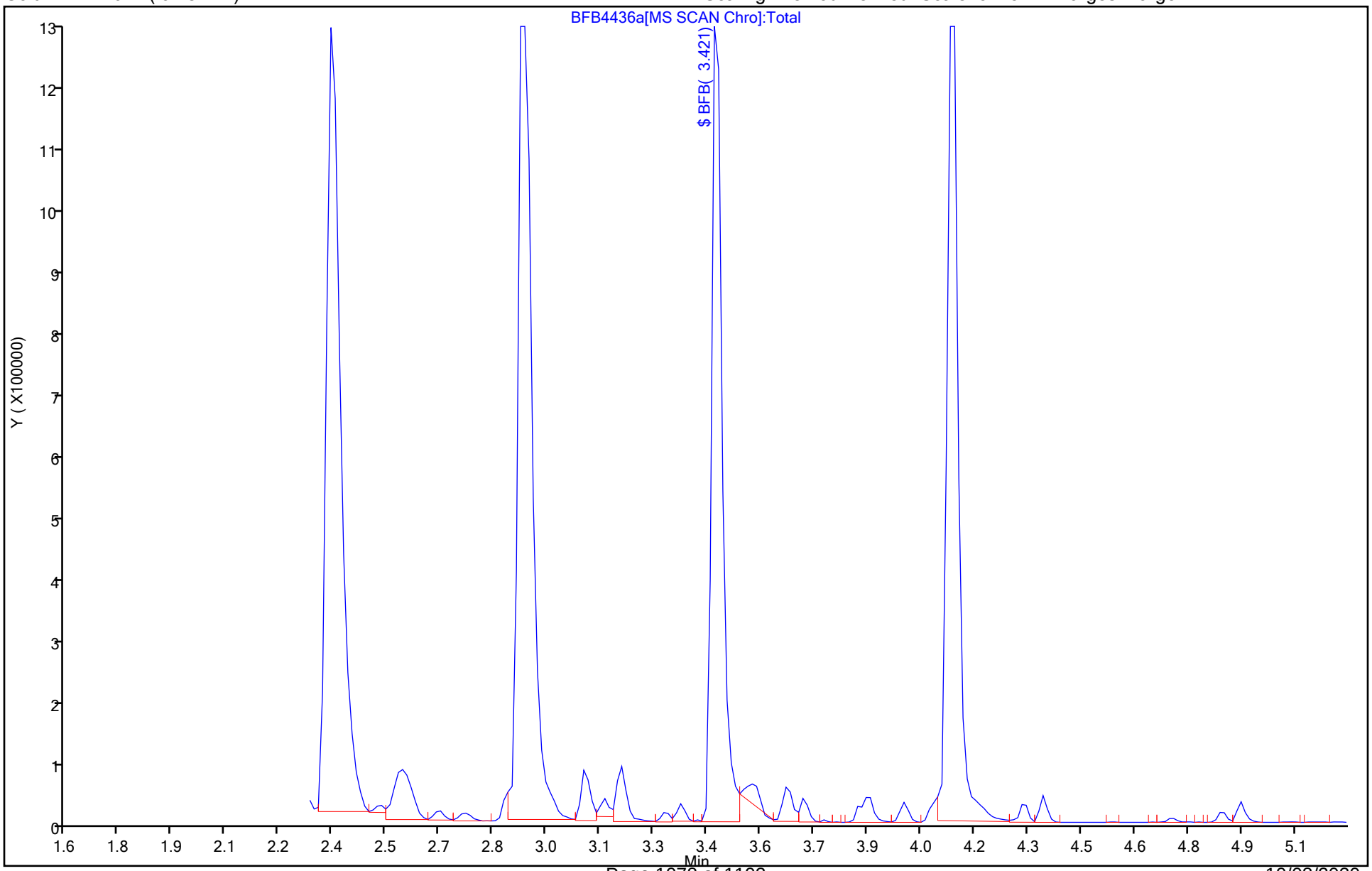
Report Date: 16-Jul-2020 16:51:52 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\BFB4436a.D

Injection Date:	16-Jul-2020 16:09:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\BFB4496.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	29-Sep-2020 17:06:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102415-001				
Operator ID:	001904	Instrument ID:	A3UX12		
Method:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	29-Sep-2020 17:15:08	Calib Date:	16-Jul-2020 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1604				
First Level Reviewer: laveyt		Date:	29-Sep-2020 17:15:08		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.421	3.421	0.000	0	604466	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

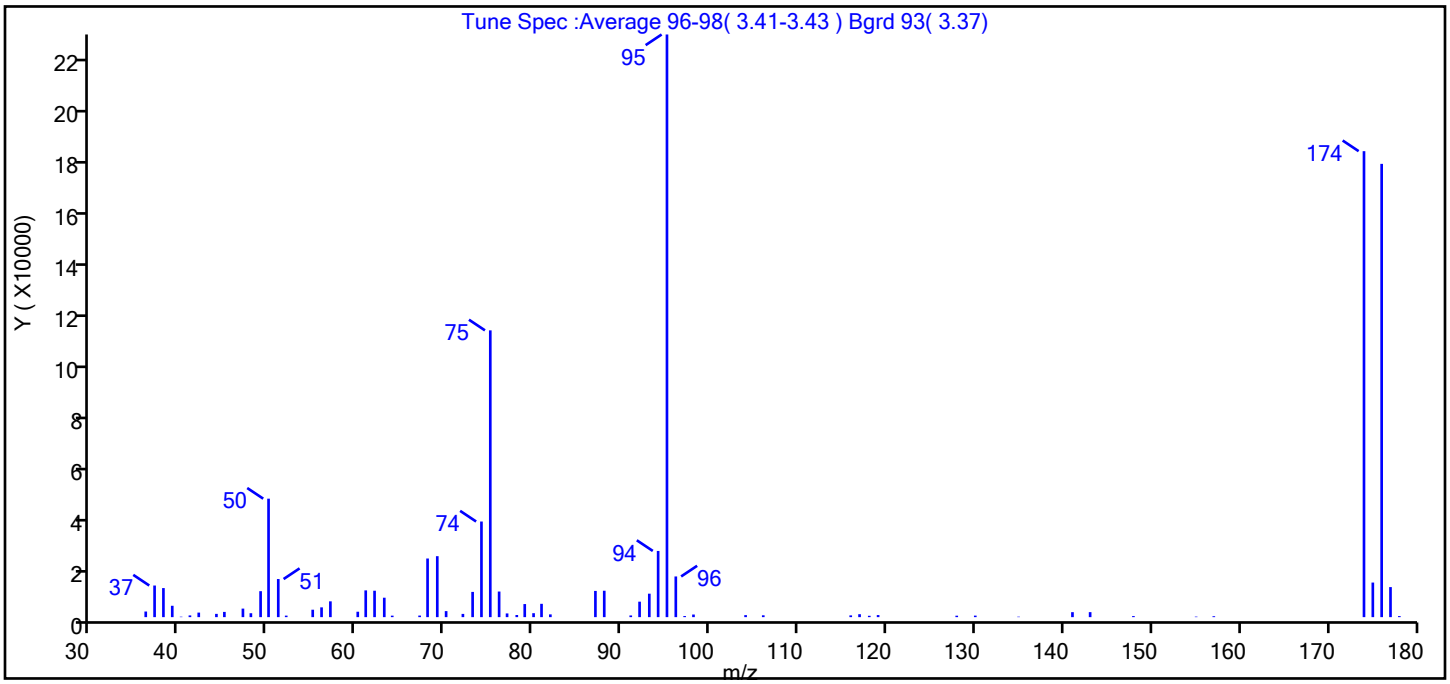
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\BFB4496.D				
Injection Date:	29-Sep-2020 17:06:30	Instrument ID:	A3UX12		
Lims ID:	BFB				
Client ID:					
Operator ID:	001904	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.3
75	30 to 60% of m/z 95	49.2
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.0
175	5 to 9% of m/z 174	5.9 (7.4)
176	Greater than 95% but less than 101% of m/z 174	77.8 (97.3)
177	5 to 9% of m/z 176	5.2 (6.6)

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\BFB4496.D\8260_12_h2o.rslt\spectra.d
Injection Date: 29-Sep-2020 17:06:30
Spectrum: Tune Spec :Average 96-98(3.41-3.43) Bgrd 93(3.37)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2183	57.00	6136	79.00	5079	117.00	1140
37.00	12277	60.00	2103	80.00	1534	118.00	528
38.00	11284	61.00	10391	81.00	5174	119.00	805
39.00	4413	62.00	10258	82.00	1073	128.00	561
40.00	172	63.00	7544	87.00	10182	130.00	593
41.00	670	64.00	582	88.00	10257	135.00	175
42.00	1765	67.00	613	91.00	653	141.00	1933
44.00	1274	68.00	22768	92.00	6009	143.00	1944
45.00	2033	69.00	23672	93.00	9110	148.00	408
47.00	3315	70.00	2343	94.00	25704	155.00	201
48.00	1521	72.00	1260	95.00	226240	157.00	349
49.00	10083	73.00	9800	96.00	15798	174.00	180928
50.00	46000	74.00	37128	97.00	424	175.00	13431
51.00	14795	75.00	111352	98.00	1018	176.00	176000
52.00	593	76.00	9942	104.00	782	177.00	11668
55.00	2885	77.00	1440	106.00	719	178.00	400
56.00	3800	78.00	831	116.00	684		

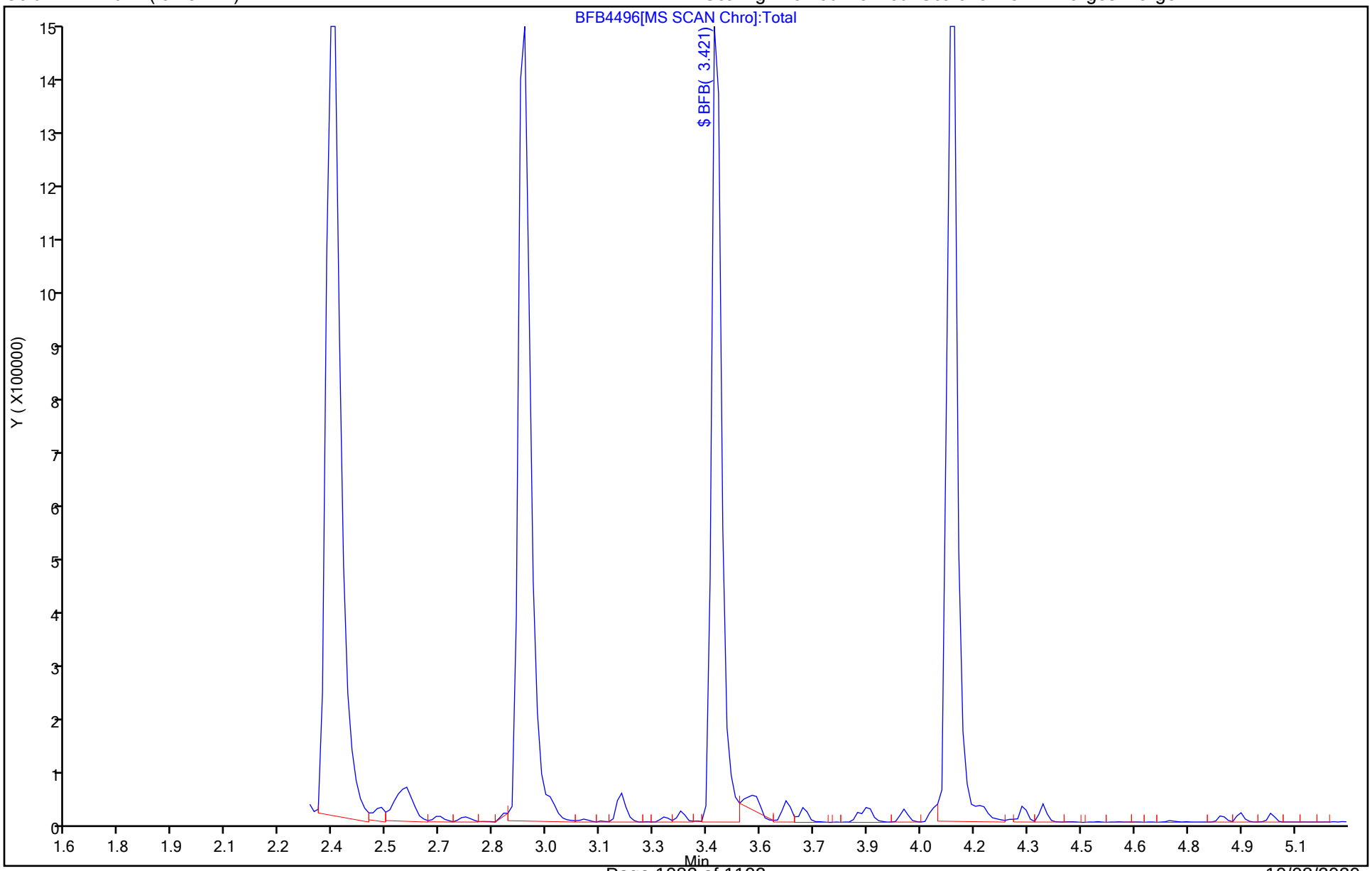
Report Date: 29-Sep-2020 17:15:09 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\BFB4496.D

Injection Date:	29-Sep-2020 17:06:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\BFB4497.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Sep-2020 16:06:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-001
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 16:14:42 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 16:14:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.421	3.421	0.000	0	577523	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

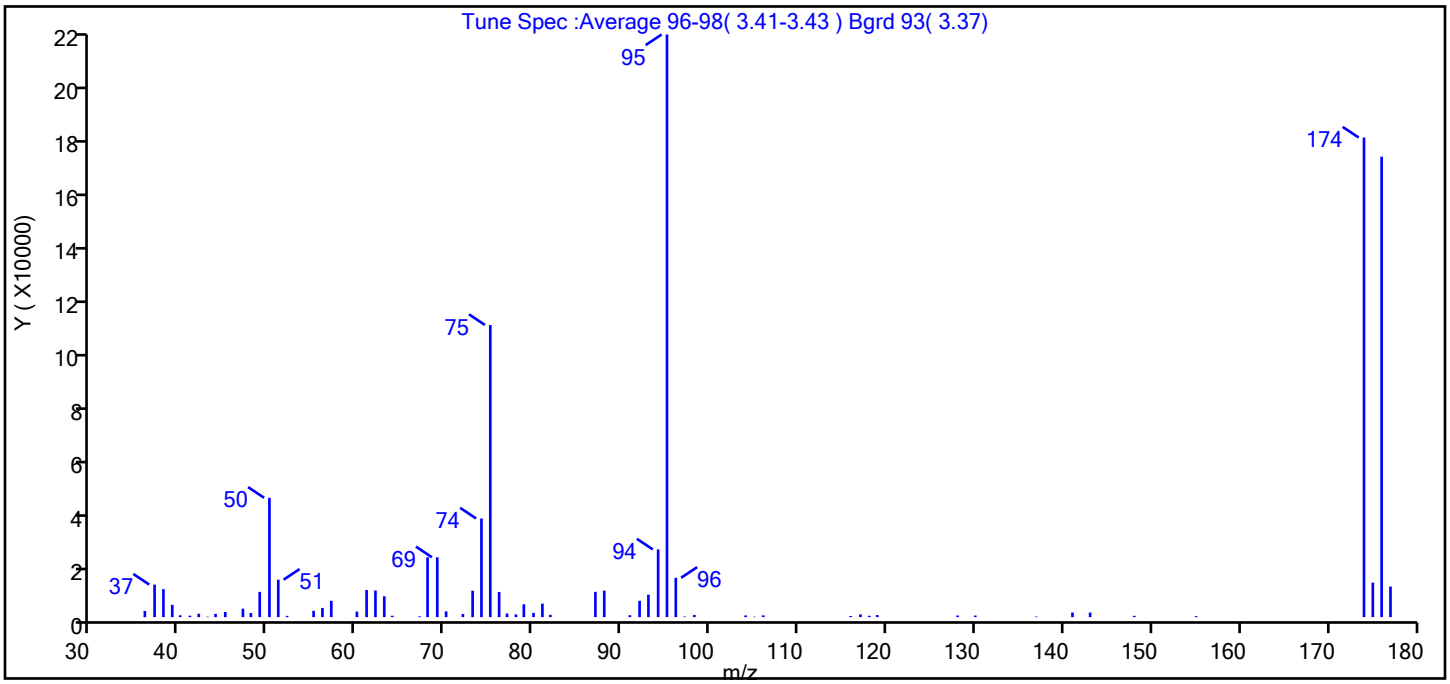
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\BFB4497.D
Injection Date: 30-Sep-2020 16:06:30 Instrument ID: A3UX12
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.5
75	30 to 60% of m/z 95	50.1
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.3
175	5 to 9% of m/z 174	5.9 (7.2)
176	Greater than 95% but less than 101% of m/z 174	79.0 (96.0)
177	5 to 9% of m/z 176	5.3 (6.6)

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\BFB4497.D\8260_12_h2o.rslt\spectra.d
Injection Date: 30-Sep-2020 16:06:30
Spectrum: Tune Spec :Average 96-98(3.41-3.43) Bgrd 93(3.37)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2276	56.00	3394	78.00	999	106.00	657
37.00	11965	57.00	6012	79.00	4732	116.00	427
38.00	10290	60.00	2046	80.00	1550	117.00	1031
39.00	4541	61.00	9978	81.00	4978	118.00	508
40.00	681	62.00	9799	82.00	850	119.00	769
41.00	542	63.00	7665	87.00	9298	128.00	603
42.00	1253	64.00	524	88.00	9741	130.00	584
43.00	170	67.00	296	91.00	717	137.00	207
44.00	1203	68.00	22000	92.00	6008	141.00	1712
45.00	1909	69.00	22000	93.00	8251	143.00	1671
47.00	3123	70.00	2113	94.00	24896	148.00	496
48.00	1519	72.00	1157	95.00	214208	155.00	380
49.00	9283	73.00	9738	96.00	14469	174.00	176320
50.00	43880	74.00	36264	97.00	223	175.00	12694
51.00	13760	75.00	107408	98.00	813	176.00	169280
52.00	467	76.00	9252	104.00	628	177.00	11250
55.00	2301	77.00	1332	105.00	174		

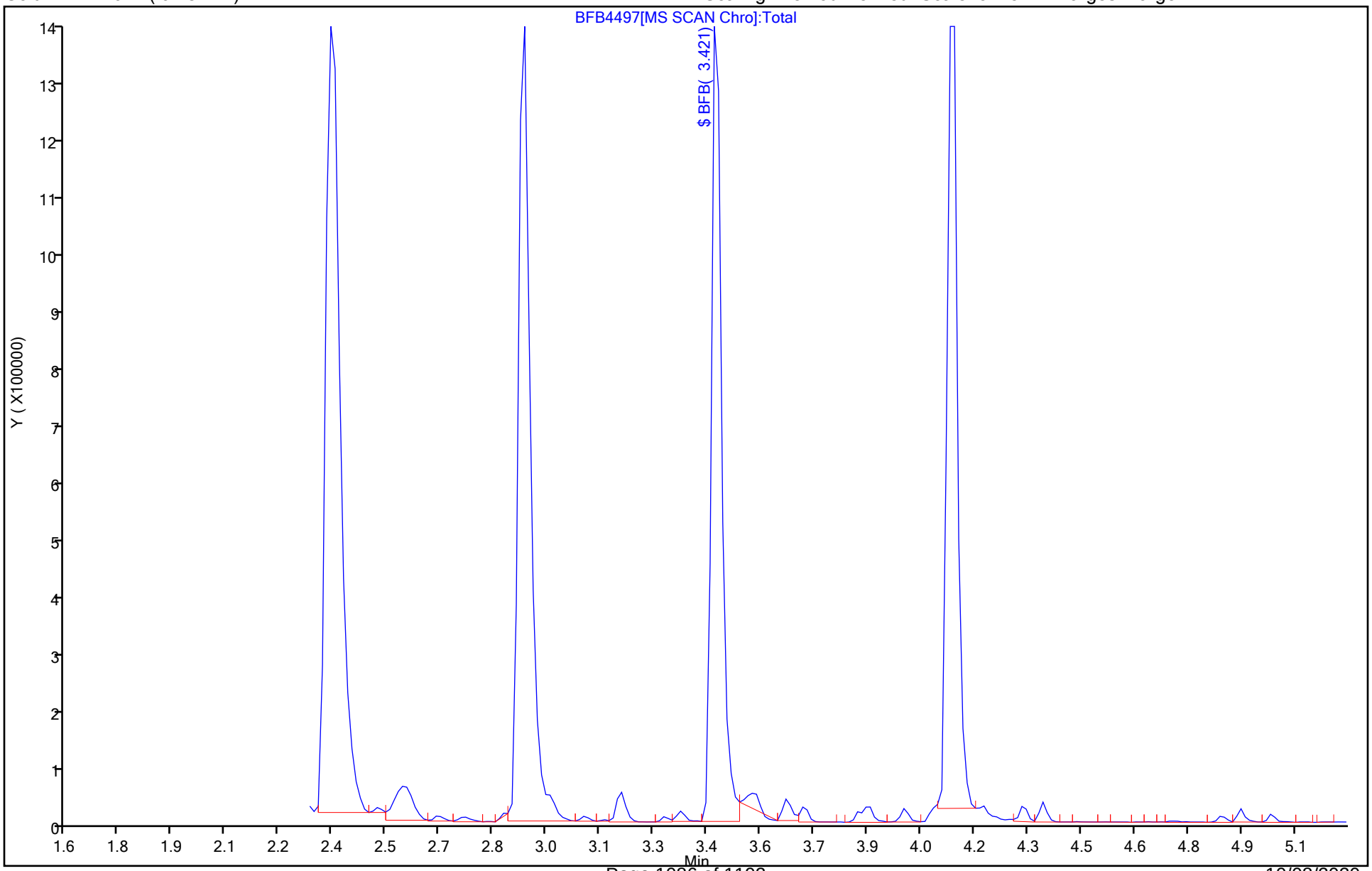
Report Date: 30-Sep-2020 16:14:43 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\BFB4497.D

Injection Date:	30-Sep-2020 16:06:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\BFB6489.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Sep-2020 11:23:30 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:52:32 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 11:43:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.888	3.888	0.000	0	272662	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

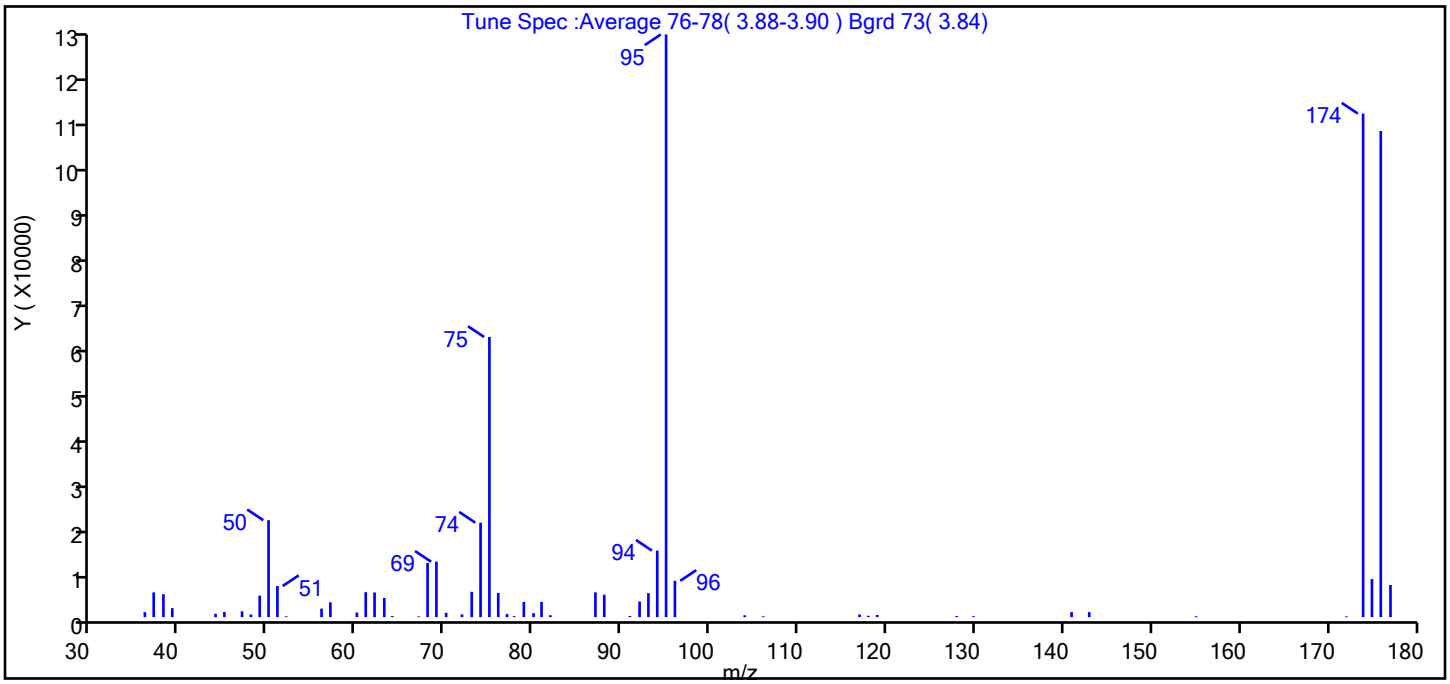
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\BFB6489.D				
Injection Date:	08-Sep-2020 11:23:30	Instrument ID:	A3UX16		
Lims ID:	BFB				
Client ID:					
Operator ID:	001765	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.6
75	30 to 60% of m/z 95	48.1
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.4
175	5 to 9% of m/z 174	6.5 (7.6)
176	Greater than 95% but less than 101% of m/z 174	83.4 (96.5)
177	5 to 9% of m/z 176	5.5 (6.6)

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\BFB6489.D\8260_16.rslt\spectra.d
Injection Date: 08-Sep-2020 11:23:30
Spectrum: Tune Spec :Average 76-78(3.88-3.90) Bgrd 73(3.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1062	61.00	5274	79.00	3212	118.00	298
37.00	5239	62.00	5213	80.00	840	119.00	459
38.00	4849	63.00	4050	81.00	3233	128.00	231
39.00	1913	64.00	228	82.00	408	130.00	205
44.00	715	67.00	170	87.00	5249	141.00	1067
45.00	1090	68.00	11455	88.00	4744	143.00	1063
47.00	1234	69.00	11727	91.00	253	155.00	190
48.00	549	70.00	917	92.00	3307	172.00	178
49.00	4568	72.00	588	93.00	5082	174.00	106520
50.00	20512	73.00	5352	94.00	14078	175.00	8053
51.00	6586	74.00	19992	95.00	123248	176.00	102832
52.00	182	75.00	59264	96.00	7692	177.00	6800
56.00	1806	76.00	5109	104.00	390		
57.00	3131	77.00	652	106.00	185		
60.00	986	78.00	215	117.00	557		

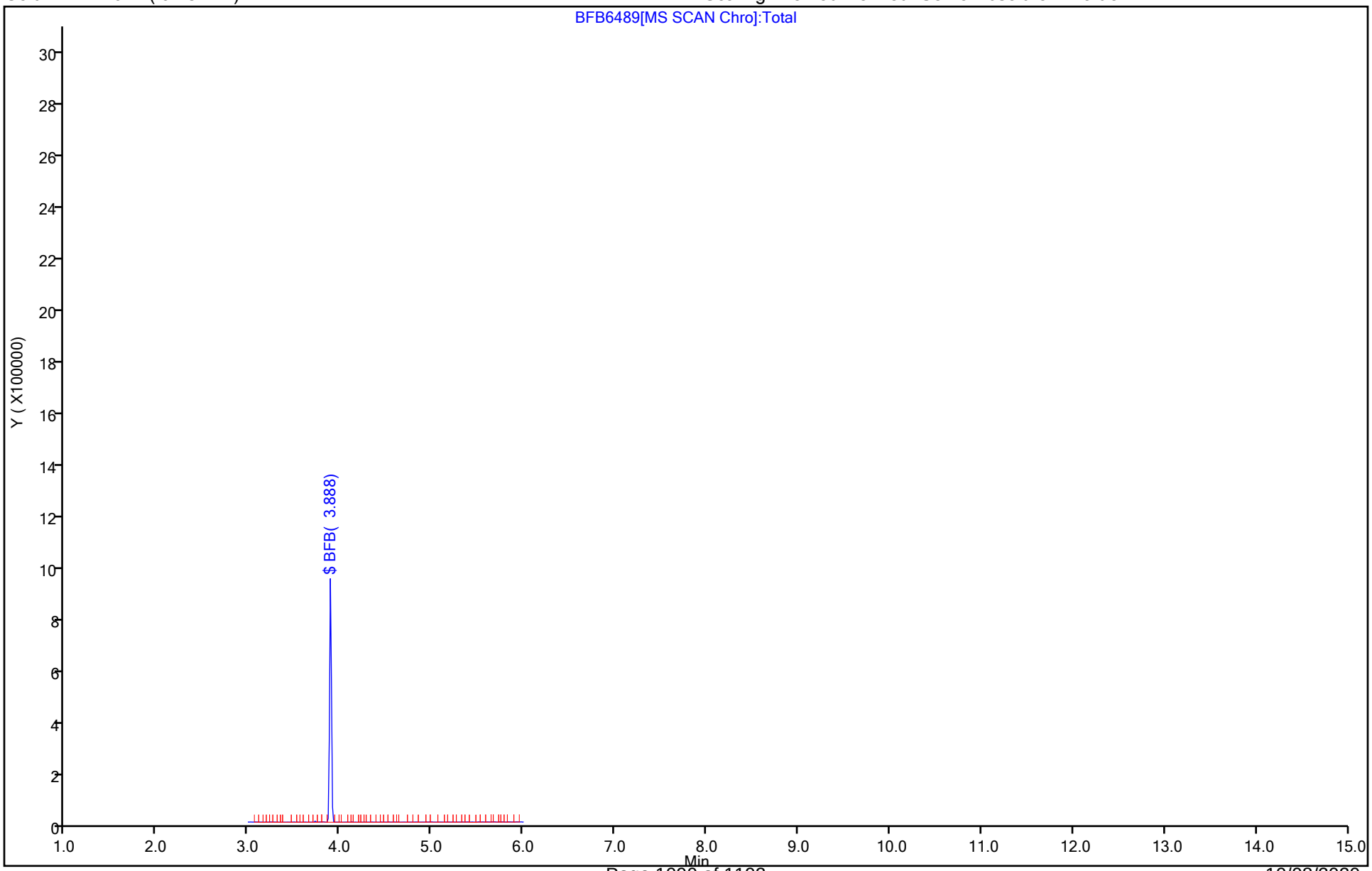
Report Date: 08-Sep-2020 15:52:33 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\BFB6489.D

Injection Date:	08-Sep-2020 11:23:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\BFB6506.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Sep-2020 09:24:30 ALS Bottle#: 6 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0102406-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 10:05:39 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 10:05:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.888	3.888	0.000	0	348946	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

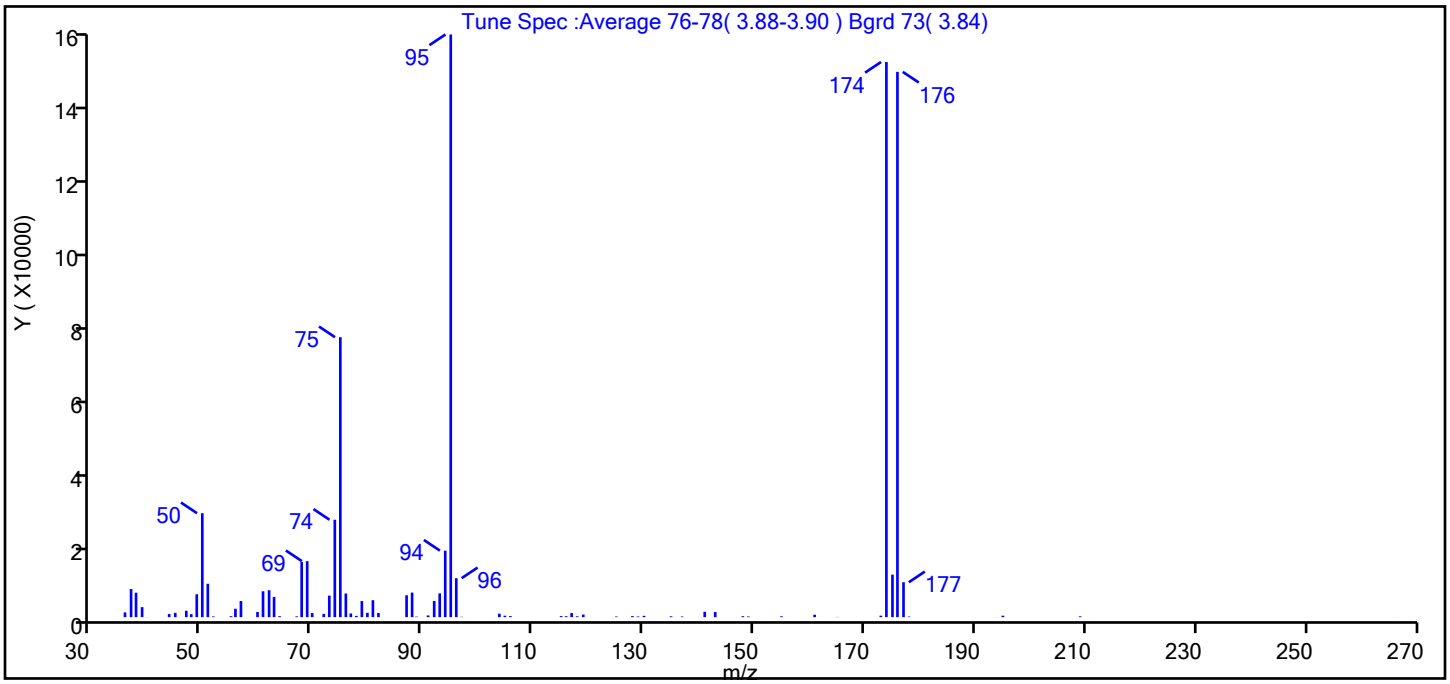
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\BFB6506.D
Injection Date: 29-Sep-2020 09:24:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 6 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.8
75	30 to 60% of m/z 95	48.0
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.3 (0.3)
174	50 to 120% of m/z 95	95.3
175	5 to 9% of m/z 174	7.3 (7.7)
176	Greater than 95% but less than 101% of m/z 174	93.6 (98.2)
177	5 to 9% of m/z 176	6.0 (6.4)

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\BFB6506.D\8260_16.rslt\spectra.d
Injection Date: 29-Sep-2020 09:24:30
Spectrum: Tune Spec :Average 76-78(3.88-3.90) Bgrd 73(3.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1289	64.00	259	92.00	4402	141.00	1452
37.00	7646	67.00	215	93.00	6464	143.00	1383
38.00	6658	68.00	15011	94.00	18104	148.00	264
39.00	2721	69.00	15242	95.00	158592	149.00	182
40.00	37	70.00	1113	96.00	10597	155.00	231
44.00	851	72.00	883	97.00	93	161.00	663
45.00	1168	73.00	5860	104.00	939	165.00	54
47.00	1736	74.00	26512	105.00	389	173.00	407
48.00	807	75.00	76200	106.00	283	174.00	151104
49.00	6225	76.00	6433	115.00	287	175.00	11571
50.00	28296	77.00	1001	116.00	256	176.00	148416
51.00	9071	78.00	340	117.00	1109	177.00	9503
52.00	191	79.00	4373	118.00	232	178.00	155
55.00	260	80.00	1183	119.00	704	194.00	23
56.00	2296	81.00	4614	125.00	171	195.00	396
57.00	4396	82.00	1125	128.00	284	209.00	222
60.00	1405	87.00	5957	129.00	181	250.00	6
61.00	7041	88.00	6678	130.00	359	266.00	20
62.00	7326	89.00	128	135.00	233		
63.00	5507	91.00	465	137.00	171		

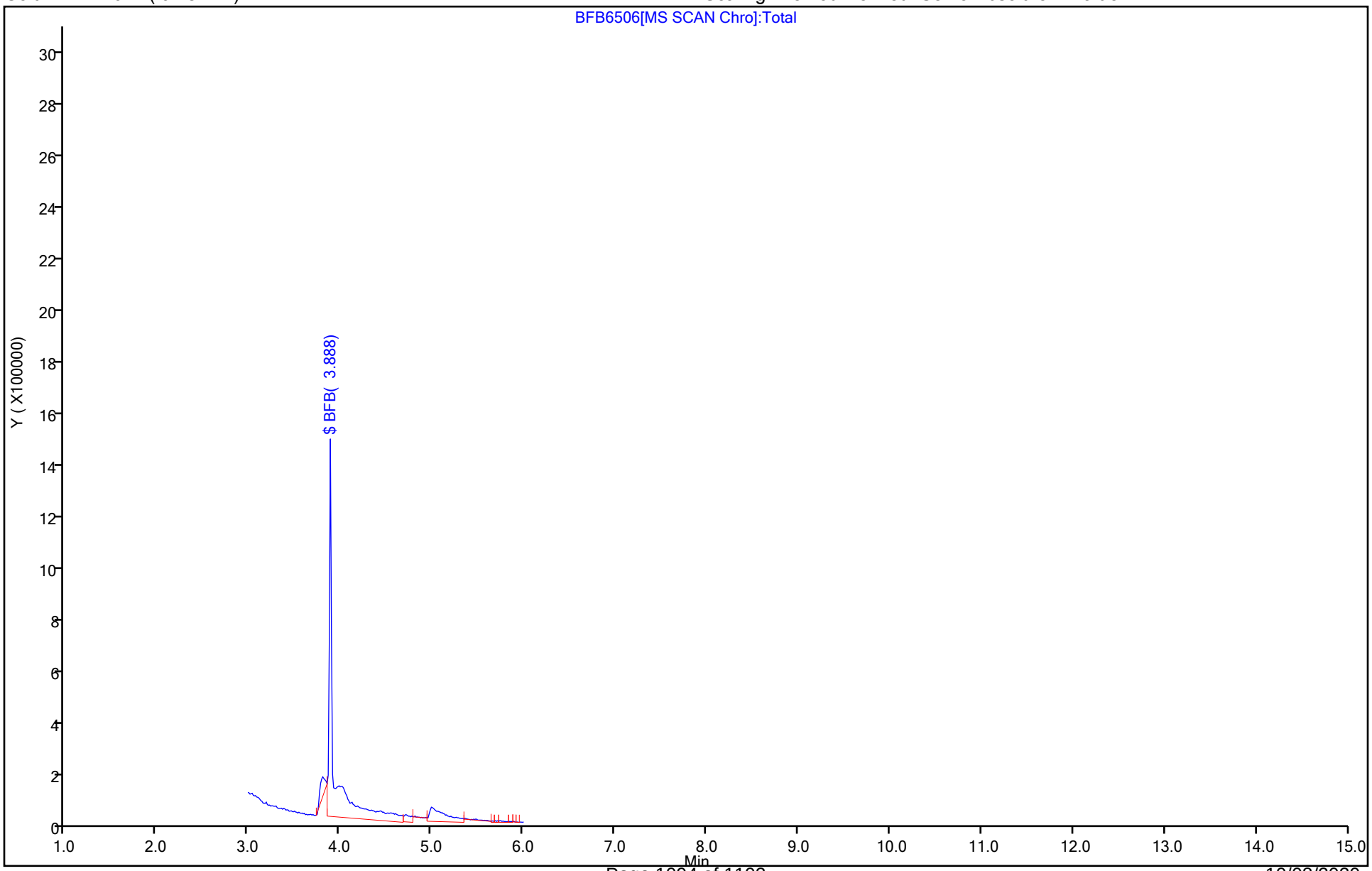
Report Date: 29-Sep-2020 10:05:40 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\BFB6506.D

Injection Date:	29-Sep-2020 09:24:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453487/9

Matrix: Water Lab File ID: UXM31392.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453487/9

Matrix: Water Lab File ID: UXM31392.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453487/9

Matrix: Water Lab File ID: UXM31392.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	98		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453487/9

Matrix: Water Lab File ID: UXM31392.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

Number TICs Found: 1 TIC Result Total: 4.29

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.54	4.29	T J	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31392.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Sep-2020 11:51:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102406-009
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 12:14:24 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 12:14:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	783166	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	648751	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	366175	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	209100	24.9	24.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.000	98	238612	24.9	25.8	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	93	820430	24.9	23.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	313913	24.9	24.9	
9 Dichlorodifluoromethane	85		1.719					ND	
10 Chloromethane	50		1.908					ND	
11 Vinyl chloride	62		2.027					ND	
12 Butadiene	54		2.074					ND	
13 Bromomethane	94		2.371					ND	
14 Chloroethane	64		2.489					ND	
123 Ethylene oxide	44	2.656	2.584	0.072	32	809			NC
15 Dichlorofluoromethane	67		2.727					ND	
16 Trichlorofluoromethane	101		2.750					ND	
17 Ethyl ether	59		3.035					ND	
18 Acrolein	56		3.177					ND	
120 Propene oxide	58		3.203					ND	
19 1,1-Dichloroethene	96		3.260					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272					ND	
21 Acetone	58		3.308					ND	
23 Iodomethane	142		3.414					ND	
24 Carbon disulfide	76		3.474					ND	
25 Acetonitrile	41		3.569					ND	
27 Methyl acetate	43		3.604					ND	
26 3-Chloro-1-propene	41		3.616					ND	
22 Methylal	45		3.629					ND	
28 Methylene Chloride	84		3.735					ND	
29 2-Methyl-2-propanol	59		3.818					ND	
30 Acrylonitrile	53		3.948					ND	
31 Methyl tert-butyl ether	73		3.972					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.984					ND	
33 Hexane	57		4.233					ND	
35 Vinyl acetate	43		4.375					ND	
34 1,1-Dichloroethane	63		4.375					ND	
36 Isopropyl ether	87		4.387					ND	
37 2-Chloro-1,3-butadiene	53		4.434					ND	
38 Tert-butyl ethyl ether	59		4.707					ND	
40 2-Butanone (MEK)	72		4.861					ND	
39 cis-1,2-Dichloroethene	96		4.873					ND	
41 2,2-Dichloropropane	77		4.885					ND	
43 Ethyl acetate	43		4.885					ND	
42 Propionitrile	54		4.921					ND	
44 Methacrylonitrile	41		5.051					ND	
45 Chlorobromomethane	128		5.086					ND	
46 Tetrahydrofuran	42		5.086					ND	
47 Chloroform	83		5.158					ND	
48 1,1,1-Trichloroethane	97		5.312					ND	
49 Cyclohexane	56		5.371					ND	
50 1,1-Dichloropropene	75		5.442					ND	
51 Carbon tetrachloride	117		5.442					ND	
52 Isobutyl alcohol	41		5.502					ND	
54 Benzene	78		5.620					ND	
53 1,2-Dichloroethane	62		5.656					ND	
163 Isooctane	57		5.703					ND	
55 Tert-amyl methyl ether	73		5.715					ND	
56 n-Heptane	57		5.845					ND	
57 n-Butanol	56		6.059					ND	
58 Trichloroethene	130		6.177					ND	
59 Ethyl acrylate	55		6.225					ND	
60 Methylcyclohexane	83		6.391					ND	
61 1,2-Dichloropropane	63		6.403					ND	
62 Methyl methacrylate	41		6.427					ND	
64 1,4-Dioxane	88		6.462					ND	
63 Dibromomethane	93		6.486					ND	
65 Dichlorobromomethane	83		6.628					ND	
66 2-Nitropropane	41		6.818					ND	
67 2-Chloroethyl vinyl ether	63		6.865					ND	
121 Epichlorohydrin	57		6.948					ND	
68 cis-1,3-Dichloropropene	75		7.008					ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126					ND	
70 Toluene	91		7.316					ND	
71 trans-1,3-Dichloropropene	75		7.517					ND	
72 Ethyl methacrylate	69		7.541					ND	
73 1,1,2-Trichloroethane	97		7.695					ND	
75 Tetrachloroethene	164		7.778					ND	
74 1,3-Dichloropropane	76		7.850					ND	
76 2-Hexanone	43		7.873					ND	
77 n-Butyl acetate	43		7.968					ND	
79 Tetrahydrothiophene	60		8.021					ND	
78 Chlorodibromomethane	129		8.051					ND	
80 Ethylene Dibromide	107		8.170					ND	
81 1-Chlorohexane	91		8.585					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 Chlorobenzene	112		8.620					ND	
84 Ethylbenzene	106		8.703					ND	
83 1,1,1,2-Tetrachloroethane	131		8.703					ND	
85 m-Xylene & p-Xylene	106		8.822					ND	
86 o-Xylene	106		9.190					ND	
87 Styrene	104		9.213					ND	
88 Bromoform	173		9.403					ND	
89 Isopropylbenzene	105		9.545					ND	
90 1,4-Dichlorobutane	55		9.628					ND	
91 Cyclohexanone	55		9.640					ND	
92 1,1,2,2-Tetrachloroethane	83		9.842					ND	
93 Bromobenzene	156		9.865					ND	
94 trans-1,4-Dichloro-2-butene	53		9.877					ND	
95 1,2,3-Trichloropropane	110		9.901					ND	
96 N-Propylbenzene	120		9.948					ND	
97 2-Chlorotoluene	126		10.043					ND	
99 1,3,5-Trimethylbenzene	105		10.126					ND	
100 4-Chlorotoluene	126		10.162					ND	
98 3-Ethyltoluene	105		10.411					ND	
101 2-Ethyltoluene	105		10.411					ND	
102 tert-Butylbenzene	119		10.435					ND	
103 Pentachloroethane	167		10.482					ND	
104 1,2,4-Trimethylbenzene	105		10.494					ND	
105 sec-Butylbenzene	105		10.660					ND	
106 1,3-Dichlorobenzene	146		10.790					ND	
107 4-Isopropyltoluene	119		10.814					ND	
108 1,4-Dichlorobenzene	146		10.885					ND	
109 1,2,3-Trimethylbenzene	105		10.909					ND	
110 Benzyl chloride	126		11.004					ND	
111 n-Butylbenzene	91		11.217					ND	
112 1,2-Dichlorobenzene	146		11.253					ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036					ND	
114 1,3,5-Trichlorobenzene	180		12.214					ND	
115 1,2,4-Trichlorobenzene	180		12.854					ND	
116 Hexachlorobutadiene	225		13.008					ND	
117 Naphthalene	128		13.150					ND	
118 1,2,3-Trichlorobenzene	180		13.399					ND	
119 2-Methylnaphthalene	142		14.585					ND	
162 1-Methylnaphthalene	142		14.858					ND	
126 Butyl Methacrylate TIC	1		0.520					ND	
S 134 Trihalomethanes, Total	1		0.520					ND	
S 158 Total BTEX	1		0.520					ND	
S 131 1,2-Dichloroethene, Total	96		1.660					ND	
S 132 1,3-Dichloropropene, Total	75		7.280					ND	
S 133 Xylenes, Total	106		17.050					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.49	Units: uL	Run Reagent

Eurofins TestAmerica, Canton
Tentatively Identified Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31392.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	29-Sep-2020 11:51:30	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102406-009				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	29-Sep-2020 12:14:24	Calib Date:	08-Sep-2020 18:33:30		
Tic RT Window:	1.400 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\chromfs\Canton\Database\NIST98.L				
Min. Match:	50				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1605				
First Level Reviewer: bosworthh		Date:	29-Sep-2020 12:14:24		

Tentative Identified Compound Results

RT	Area	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
		Unknown						
1.541	333952	4.29	1					

Quantitation Compounds

Compound	RT	Area	Amount ug/l
* 1 Fluorobenzene	5.869	1557923	20.0

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.49	Units: uL	Run Reagent

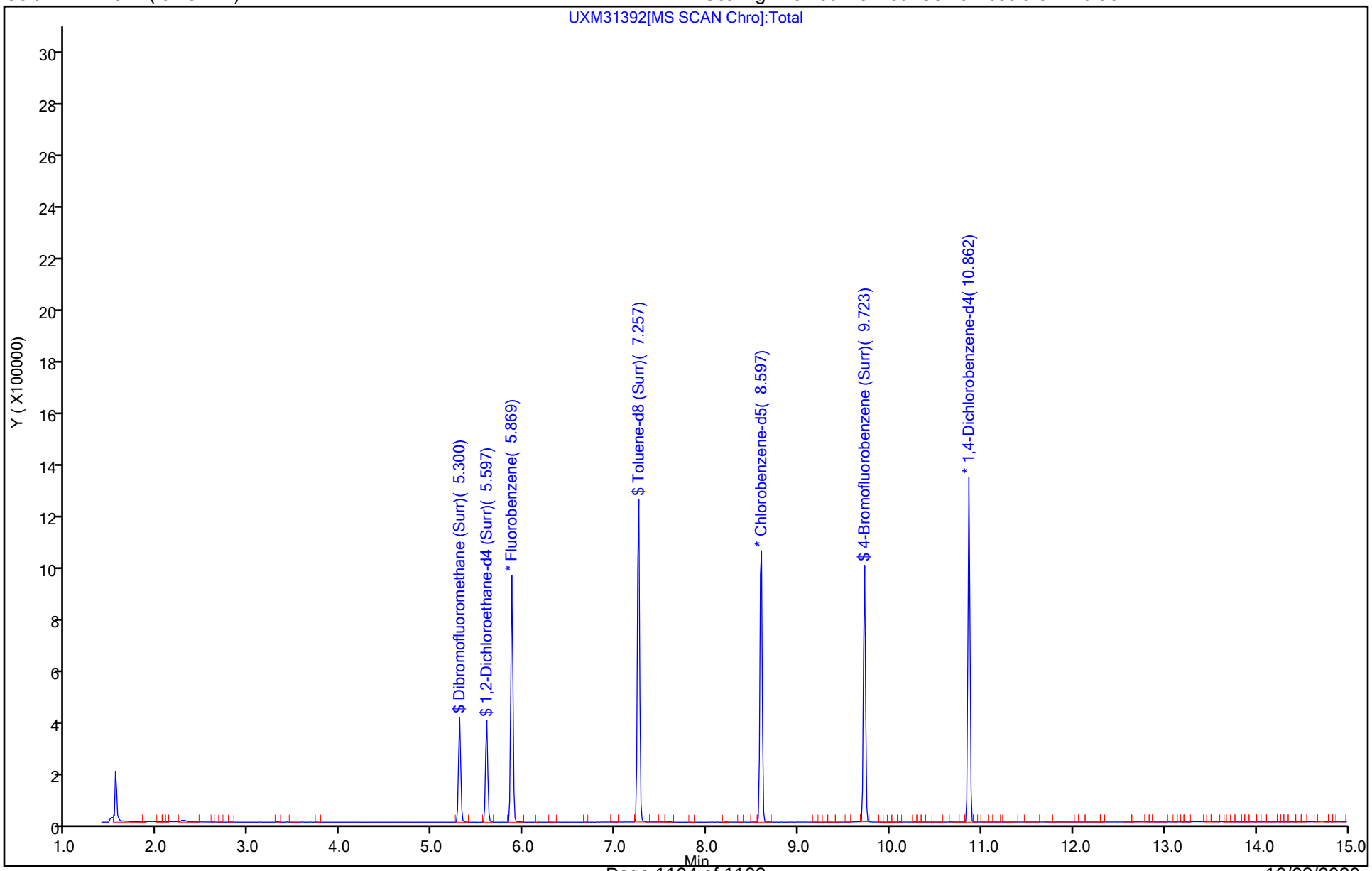
Report Date: 29-Sep-2020 12:14:25 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31392.D

Injection Date:	29-Sep-2020 11:51:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31392.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	29-Sep-2020 11:51:30	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102406-009				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	29-Sep-2020 12:14:24	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1605				

First Level Reviewer: bosworthh Date: 29-Sep-2020 12:14:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	24.5	98.30
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.8	103.62
$ 6 Toluene-d8 (Surr)	24.9	23.5	94.38
$ 7 4-Bromofluorobenzene (Surr)	24.9	24.9	100.05

Report Date: 29-Sep-2020 12:14:25 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31392.D

Injection Date: 29-Sep-2020 11:51:30 Instrument ID: A3UX16

Lims ID: MB

Client ID:

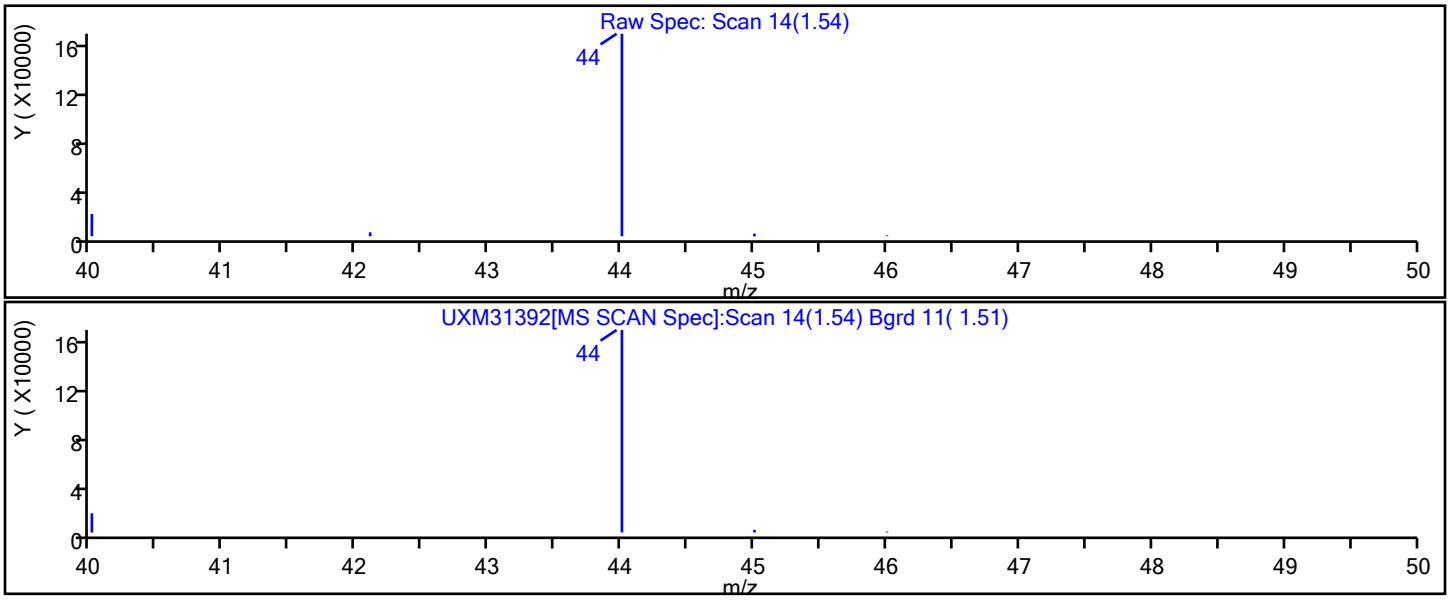
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260_16 Limit Group: MSV 8260C ICAL

Column: Detector MS SCAN

No Library Matches Found above the Threshold: 50



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453571/8

Matrix: Water Lab File ID: U1280881a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453571/8

Matrix: Water Lab File ID: U1280881a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453571/8

Matrix: Water Lab File ID: U1280881a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453571/8

Matrix: Water Lab File ID: U1280881a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280881a.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Sep-2020 19:21:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-008
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 19:56:30 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: laveyt Date: 29-Sep-2020 19:56:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1144959	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	759851	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	391859	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	270751	20.0	17.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	352440	20.0	18.9	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1055606	20.0	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	376052	20.0	21.4	
9 Dichlorodifluoromethane	85		1.403					ND	
10 Chloromethane	50		1.628					ND	
11 Butadiene	54		1.640					ND	
12 Vinyl chloride	62		1.687					ND	
13 1-Chloro-1-fluoroethane TIC	47		1.900					ND	
14 Bromomethane	94		1.948					ND	
15 Chloroethane	64		1.995					ND	
16 Dichlorofluoromethane	67		2.184					ND	
17 Trichlorofluoromethane	101		2.255					ND	
18 Methylal	45		2.346					ND	
19 Ethyl ether	59		2.433					ND	
20 Acrolein	56		2.551					ND	
21 1,1-Dichloroethene	61		2.622					ND	
22 112TCTFE	101		2.670					ND	
23 Acetone	43	2.681	2.681	0.000	98	9621		1.32	
24 Iodomethane	142		2.764					ND	
25 Carbon disulfide	76		2.812					ND	7
26 Acetonitrile	41		2.930					ND	7
27 3-Chloro-1-propene	41		2.942					ND	7
28 Methyl acetate	43		2.965					ND	
29 Methylene Chloride	49		3.048					ND	
30 2-Methyl-2-propanol	59		3.167					ND	
31 Acrylonitrile	53		3.273					ND	
32 trans-1,2-Dichloroethene	61		3.285					ND	
33 Methyl tert-butyl ether	73		3.285					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	57		3.510					ND	
35 1,1-Dichloroethane	63		3.640					ND	
36 Vinyl acetate	43		3.687					ND	
37 Isopropyl ether	87		3.699					ND	
38 2-Chloro-1,3-butadiene	53		3.723					ND	
39 Tert-butyl ethyl ether	59		4.007					ND	
40 2,2-Dichloropropane	77		4.125					ND	
41 cis-1,2-Dichloroethene	96		4.137					ND	
42 2-Butanone (MEK)	72		4.149					ND	
43 Ethyl acetate	43		4.196					ND	7
44 Propionitrile	54		4.208					ND	
46 Chlorobromomethane	49		4.326					ND	
45 Methacrylonitrile	41		4.326					ND	
47 Tetrahydrofuran	42	4.373	4.373	0.000	83	2300		0.2493	
48 Chloroform	83		4.397					ND	
49 1,1,1-Trichloroethane	97		4.551					ND	
50 Cyclohexane	84		4.598					ND	
51 1,1-Dichloropropene	75		4.681					ND	
52 Carbon tetrachloride	117		4.693					ND	
53 Isobutyl alcohol	41		4.788					ND	
54 Benzene	78		4.859					ND	
55 1,2-Dichloroethane	62		4.882					ND	
56 Tert-amyl methyl ether	73		4.953					ND	
57 n-Heptane	57		5.072					ND	
58 n-Butanol	56		5.344					ND	
59 Trichloroethene	130		5.403					ND	
60 Ethyl acrylate	55		5.486					ND	
61 Methylcyclohexane	83		5.569					ND	
62 1,2-Dichloropropane	63		5.592					ND	
63 Methyl methacrylate	41		5.687					ND	
64 Dibromomethane	174		5.699					ND	
65 1,4-Dioxane	88		5.711					ND	
66 Dichlorobromomethane	83		5.829					ND	
67 2-Nitropropane	41		6.030					ND	
68 2-Chloroethyl vinyl ether	63		6.089					ND	
69 cis-1,3-Dichloropropene	75		6.219					ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350					ND	U
71 Toluene	91		6.503					ND	
72 trans-1,3-Dichloropropene	75		6.705					ND	
73 Tetrahydrothiophene	60		6.745					ND	
74 Ethyl methacrylate	69		6.776					ND	
75 1,1,2-Trichloroethane	97		6.870					ND	
76 Tetrachloroethene	166		7.000					ND	
77 1,3-Dichloropropane	76		7.024					ND	
78 2-Hexanone	43		7.083					ND	
79 n-Butyl acetate	43		7.202					ND	
80 Chlorodibromomethane	129		7.225					ND	
81 Ethylene Dibromide	107		7.332					ND	
82 1-Chlorohexane	91		7.746					ND	7
83 Chlorobenzene	112		7.781					ND	
84 1,1,1,2-Tetrachloroethane	131		7.852					ND	
85 Ethylbenzene	106		7.876					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 m-Xylene & p-Xylene	106		7.983					ND	
87 o-Xylene	106		8.361					ND	
88 Styrene	104		8.373					ND	
89 Bromoform	173		8.551					ND	
90 Isopropylbenzene	105		8.704					ND	
91 Cyclohexanone	55		8.799					ND	
93 1,1,2,2-Tetrachloroethane	83		8.988					ND	
92 Bromobenzene	156		9.000					ND	
94 1,2,3-Trichloropropane	110		9.036					ND	
95 trans-1,4-Dichloro-2-butene	53		9.047					ND	
96 N-Propylbenzene	120		9.095					ND	
97 2-Chlorotoluene	126		9.178					ND	
98 1,3,5-Trimethylbenzene	105		9.272					ND	
99 4-Chlorotoluene	126		9.284					ND	
100 3-Ethyltoluene	105		9.324					ND	
101 2-Ethyltoluene	105		9.513					ND	
102 tert-Butylbenzene	119		9.580					ND	
103 Pentachloroethane	167		9.604					ND	
104 1,2,4-Trimethylbenzene	105		9.627					ND	
105 sec-Butylbenzene	105		9.793					ND	
106 1,3-Dichlorobenzene	146		9.911					ND	7
107 4-Isopropyltoluene	119		9.935					ND	
108 1,4-Dichlorobenzene	146		9.994					ND	7
109 1,2,3-Trimethylbenzene	105		10.042					ND	
110 Benzyl chloride	91		10.136					ND	
111 n-Butylbenzene	91		10.337					ND	
112 1,2-Dichlorobenzene	146		10.361					ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130					ND	
114 1,3,5-Trichlorobenzene	180		11.331					ND	
115 1,2,4-Trichlorobenzene	180		11.947					ND	7
116 Hexachlorobutadiene	225		12.124					ND	
117 Naphthalene	128		12.195					ND	7
118 1,2,3-Trichlorobenzene	180		12.432					ND	
119 2-Methylnaphthalene	142		13.378					ND	7
168 1-Methylnaphthalene	142	13.591	13.591	0.000	0	4538		NC	
169 Isooctane	57		0.000					ND	
120 1,4-Dichlorobutane	1		-0.510					ND	
123 Epichlorohydrin	1		-0.510					ND	
121 Ethylene oxide	1		-0.510					ND	
122 Propene oxide	1		-0.510					ND	
S 124 Trihalomethanes, Total	1		-0.510					ND	
S 125 Total BTEX	1		-0.510					ND	
S 126 1,2-Dichloroethene, Total	96		0.630					ND	
S 127 1,3-Dichloropropene, Total	75		6.250					ND	
S 128 Xylenes, Total	106		16.020					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

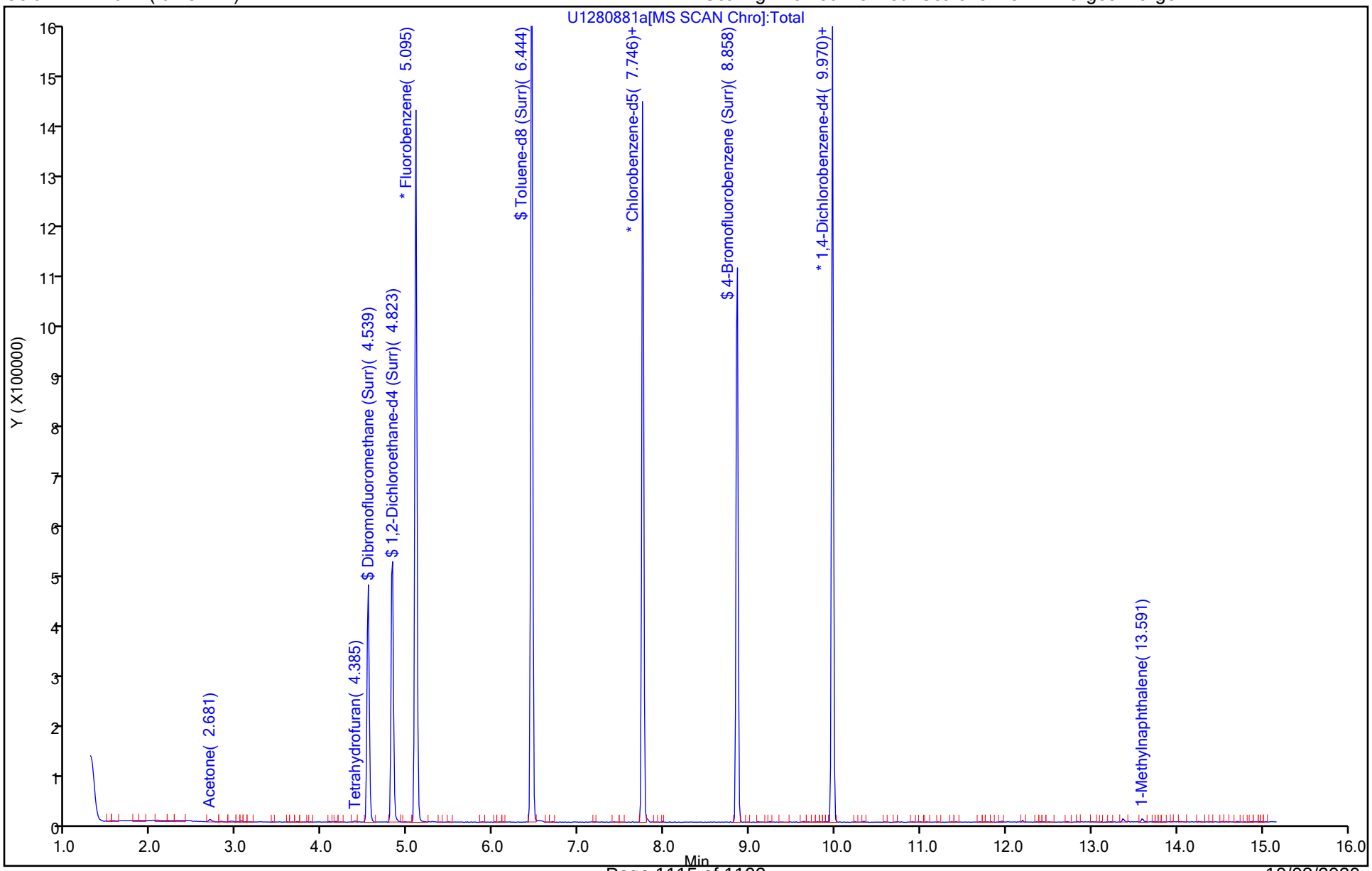
Report Date: 29-Sep-2020 19:56:30 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280881a.D

Injection Date:	29-Sep-2020 19:21:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280881a.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Sep-2020 19:21:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-008
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 19:56:30 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: laveyt Date: 29-Sep-2020 19:56:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	17.8	89.08
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.9	94.75
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.70
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.4	106.85

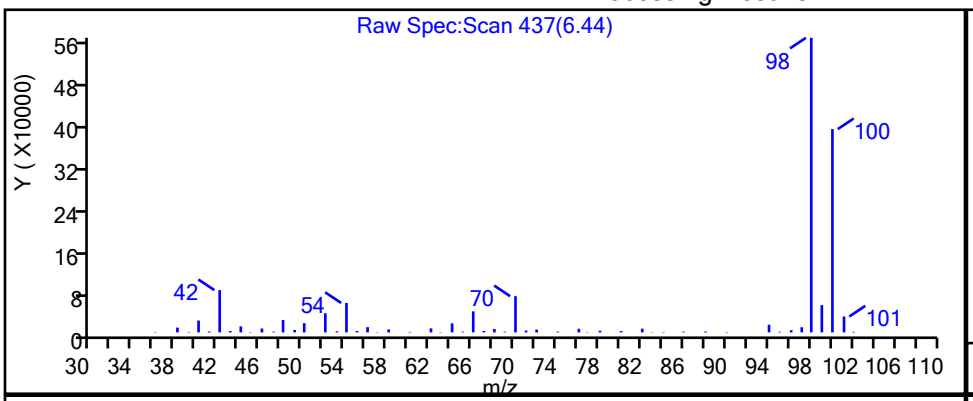
User Disabled Compound Report

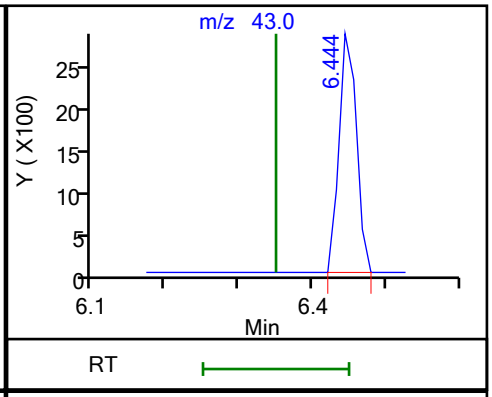
Eurofins TestAmerica, Canton

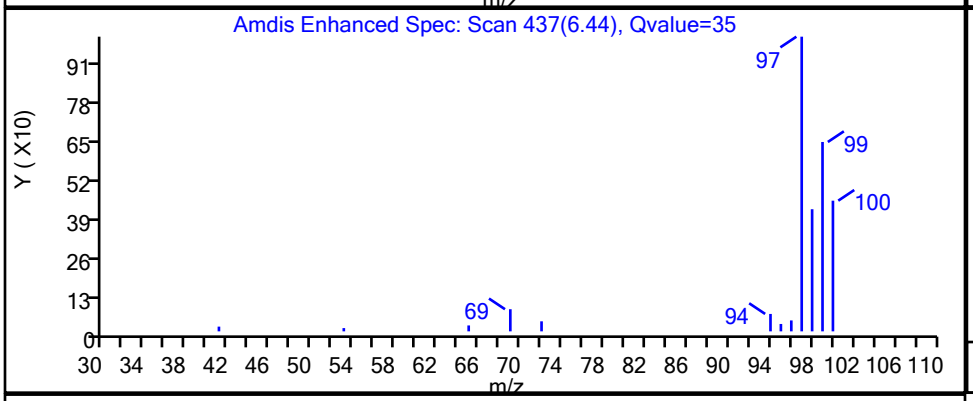
Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280881a.D
Injection Date: 29-Sep-2020 19:21:30 Instrument ID: A3UX12
Lims ID: MB
Client ID:
Operator ID: 001904 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

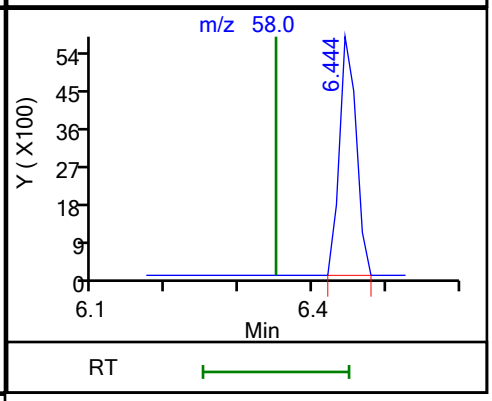
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

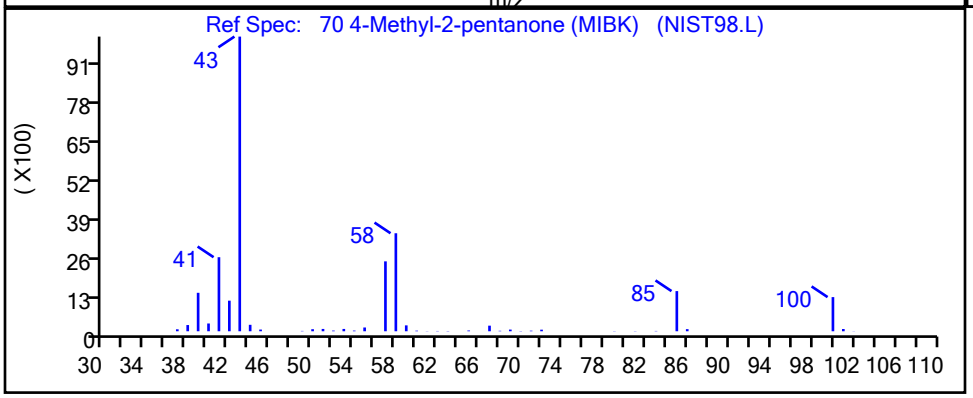
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4789	0.192704
6.44	58.00	9208	

Reviewer: laveyt, 29-Sep-2020 19:55:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453771/8

Matrix: Water Lab File ID: U1280907.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 18:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	5.0	U	5.0	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453771/8

Matrix: Water Lab File ID: U1280907.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 18:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	5.0	U	5.0	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	20	U	20	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453771/8

Matrix: Water Lab File ID: U1280907.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 18:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: MB 240-453771/8

Matrix: Water Lab File ID: U1280907.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 18:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280907.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Sep-2020 18:21:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-008
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 19:02:24 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 19:02:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1116135	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	752142	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.971	9.970	0.000	95	393779	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	267567	20.0	18.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	94	336373	20.0	18.6	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1028600	20.0	20.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	95	371241	20.0	21.3	
9 Dichlorodifluoromethane	85		1.403					ND	
10 Chloromethane	50		1.616					ND	
11 Butadiene	54		1.652					ND	
12 Vinyl chloride	62		1.687					ND	
13 1-Chloro-1-fluoroethane TIC	47		1.900					ND	
14 Bromomethane	94		1.948					ND	
15 Chloroethane	64		2.007					ND	
16 Dichlorofluoromethane	67		2.184					ND	
17 Trichlorofluoromethane	101		2.184					ND	
18 Methylal	45		2.346					ND	
19 Ethyl ether	59		2.445					ND	
20 Acrolein	56		2.563					ND	
21 1,1-Dichloroethene	61		2.634					ND	
22 112TCTFE	101		2.681					ND	
23 Acetone	43	2.693	2.693	0.000	98	7496		1.05	
24 Iodomethane	142		2.776					ND	
25 Carbon disulfide	76		2.823					ND	7
26 Acetonitrile	41		2.942					ND	7
27 3-Chloro-1-propene	41		2.954					ND	7
28 Methyl acetate	43		2.977					ND	
29 Methylene Chloride	49	3.060	3.060	0.000	94	2364		0.1153	
30 2-Methyl-2-propanol	59		3.167					ND	
31 Acrylonitrile	53		3.273					ND	
32 trans-1,2-Dichloroethene	61		3.297					ND	
33 Methyl tert-butyl ether	73		3.297					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	57		3.522					ND	
35 1,1-Dichloroethane	63		3.652					ND	
36 Vinyl acetate	43		3.699					ND	
37 Isopropyl ether	87		3.699					ND	
38 2-Chloro-1,3-butadiene	53		3.723					ND	
39 Tert-butyl ethyl ether	59		4.007					ND	
40 2,2-Dichloropropane	77		4.137					ND	
41 cis-1,2-Dichloroethene	96		4.137					ND	
42 2-Butanone (MEK)	72		4.149					ND	
43 Ethyl acetate	43		4.196					ND	7
44 Propionitrile	54		4.208					ND	
46 Chlorobromomethane	49		4.338					ND	
45 Methacrylonitrile	41		4.338					ND	
47 Tetrahydrofuran	42		4.373					ND	U
48 Chloroform	83		4.409					ND	
49 1,1,1-Trichloroethane	97		4.551					ND	
50 Cyclohexane	84		4.598					ND	
51 1,1-Dichloropropene	75		4.693					ND	
52 Carbon tetrachloride	117		4.693					ND	
53 Isobutyl alcohol	41		4.788					ND	
54 Benzene	78		4.870					ND	
55 1,2-Dichloroethane	62		4.882					ND	
56 Tert-amyl methyl ether	73		4.953					ND	
57 n-Heptane	57		5.083					ND	
58 n-Butanol	56		5.344					ND	
59 Trichloroethene	130		5.403					ND	
60 Ethyl acrylate	55		5.486					ND	
61 Methylcyclohexane	83		5.569					ND	
62 1,2-Dichloropropane	63		5.604					ND	
63 Methyl methacrylate	41		5.687					ND	
64 Dibromomethane	174		5.711					ND	
65 1,4-Dioxane	88		5.711					ND	
66 Dichlorobromomethane	83		5.829					ND	
67 2-Nitropropane	41		6.030					ND	
68 2-Chloroethyl vinyl ether	63		6.089					ND	
69 cis-1,3-Dichloropropene	75		6.219					ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.350					ND	U
71 Toluene	91		6.515					ND	
72 trans-1,3-Dichloropropene	75		6.705					ND	
73 Tetrahydrothiophene	60		6.745					ND	
74 Ethyl methacrylate	69		6.776					ND	
75 1,1,2-Trichloroethane	97		6.870					ND	
76 Tetrachloroethene	166		7.000					ND	
77 1,3-Dichloropropane	76		7.024					ND	
78 2-Hexanone	43		7.095					ND	
79 n-Butyl acetate	43		7.202					ND	
80 Chlorodibromomethane	129		7.225					ND	
81 Ethylene Dibromide	107		7.332					ND	
82 1-Chlorohexane	91		7.746					ND	
83 Chlorobenzene	112		7.781					ND	
84 1,1,1,2-Tetrachloroethane	131		7.852					ND	
85 Ethylbenzene	106		7.876					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 m-Xylene & p-Xylene	106		7.983					ND	
87 o-Xylene	106		8.361					ND	
88 Styrene	104		8.373					ND	
89 Bromoform	173		8.550					ND	
90 Isopropylbenzene	105		8.704					ND	
91 Cyclohexanone	55		8.799					ND	
93 1,1,2,2-Tetrachloroethane	83		9.000					ND	
92 Bromobenzene	156		9.000					ND	
94 1,2,3-Trichloropropane	110		9.036					ND	
95 trans-1,4-Dichloro-2-butene	53		9.047					ND	
96 N-Propylbenzene	120		9.095					ND	
97 2-Chlorotoluene	126		9.178					ND	
98 1,3,5-Trimethylbenzene	105		9.272					ND	
99 4-Chlorotoluene	126		9.284					ND	
100 3-Ethyltoluene	105		9.324					ND	
101 2-Ethyltoluene	105		9.513					ND	
102 tert-Butylbenzene	119		9.580					ND	
103 Pentachloroethane	167		9.604					ND	
104 1,2,4-Trimethylbenzene	105		9.627					ND	
105 sec-Butylbenzene	105		9.793					ND	
106 1,3-Dichlorobenzene	146		9.911					ND	
107 4-Isopropyltoluene	119		9.947					ND	
108 1,4-Dichlorobenzene	146		9.994					ND	
109 1,2,3-Trimethylbenzene	105		10.042					ND	
110 Benzyl chloride	91		10.136					ND	
111 n-Butylbenzene	91		10.337					ND	7
112 1,2-Dichlorobenzene	146		10.361					ND	
113 1,2-Dibromo-3-Chloropropane	157		11.130					ND	
114 1,3,5-Trichlorobenzene	180		11.331					ND	
115 1,2,4-Trichlorobenzene	180		11.947					ND	7
116 Hexachlorobutadiene	225		12.124					ND	
117 Naphthalene	128		12.195					ND	7
118 1,2,3-Trichlorobenzene	180		12.432					ND	
119 2-Methylnaphthalene	142	13.378	13.378	0.000	89	5325		0.1089	
168 1-Methylnaphthalene	142	13.591	13.591	0.000	0	5023		NC	
169 Isooctane	57		0.000					ND	
120 1,4-Dichlorobutane	1		-0.510					ND	
123 Epichlorohydrin	1		-0.510					ND	
121 Ethylene oxide	1		-0.510					ND	
122 Propene oxide	1		-0.510					ND	
S 124 Trihalomethanes, Total	1		-0.510					ND	
S 125 Total BTEX	1		-0.510					ND	
S 126 1,2-Dichloroethene, Total	96		0.630					ND	
S 127 1,3-Dichloropropene, Total	75		6.250					ND	
S 128 Xylenes, Total	106		16.020					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

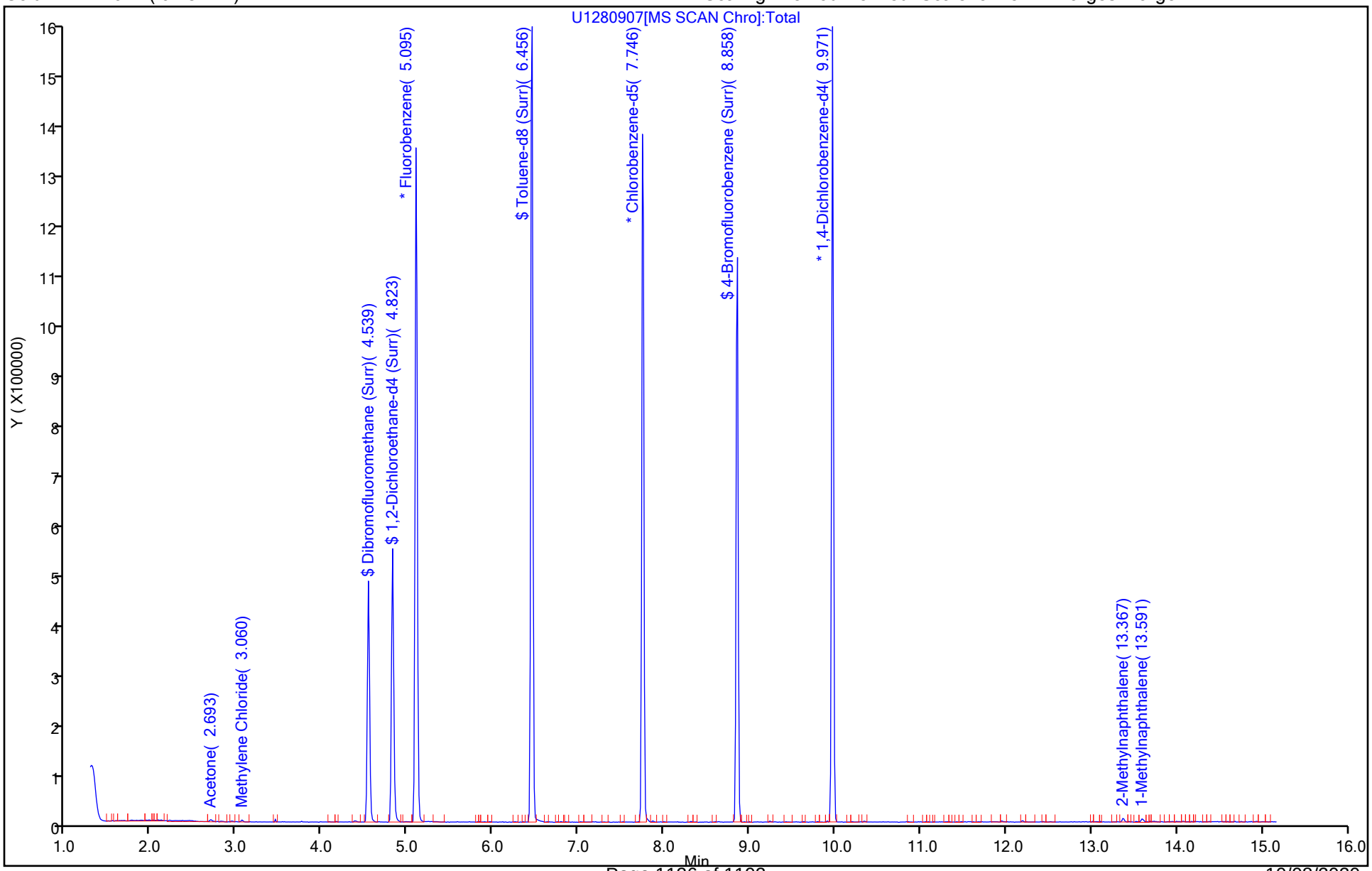
Report Date: 30-Sep-2020 19:02:24 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280907.D

Injection Date:	30-Sep-2020 18:21:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280907.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Sep-2020 18:21:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-008
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 19:02:24 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 19:02:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.1	90.31
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.6	92.76
$ 6 Toluene-d8 (Surr)	20.0	20.2	101.10
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.3	106.57

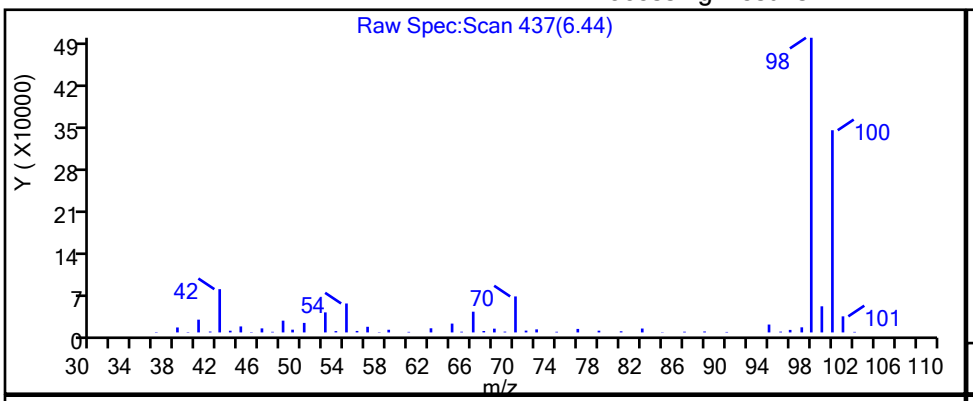
User Disabled Compound Report

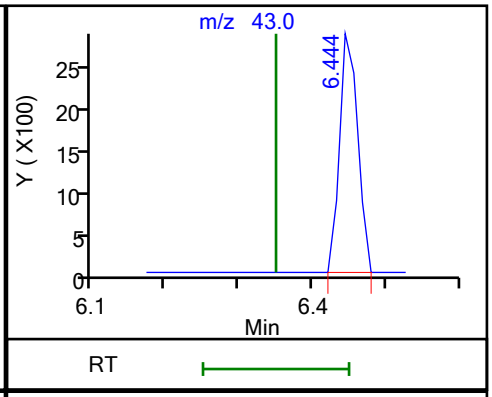
Eurofins TestAmerica, Canton

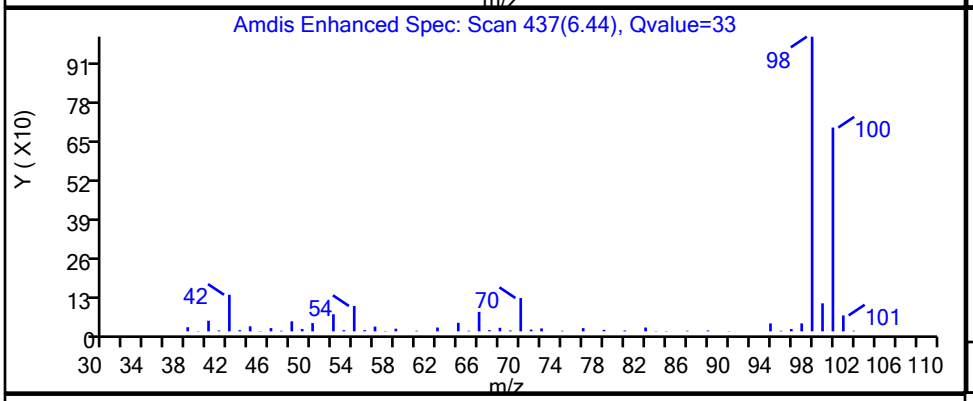
Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280907.D
Injection Date: 30-Sep-2020 18:21:30 Instrument ID: A3UX12
Lims ID: MB
Client ID:
Operator ID: 001904 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12_h2o Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

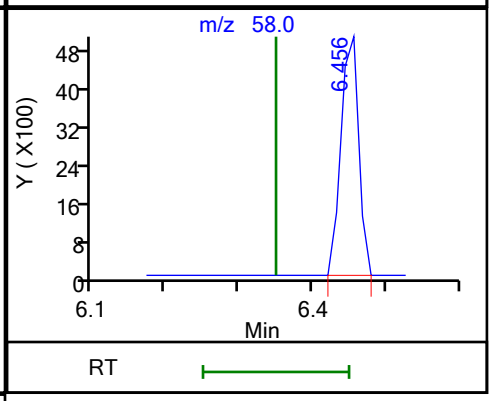
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

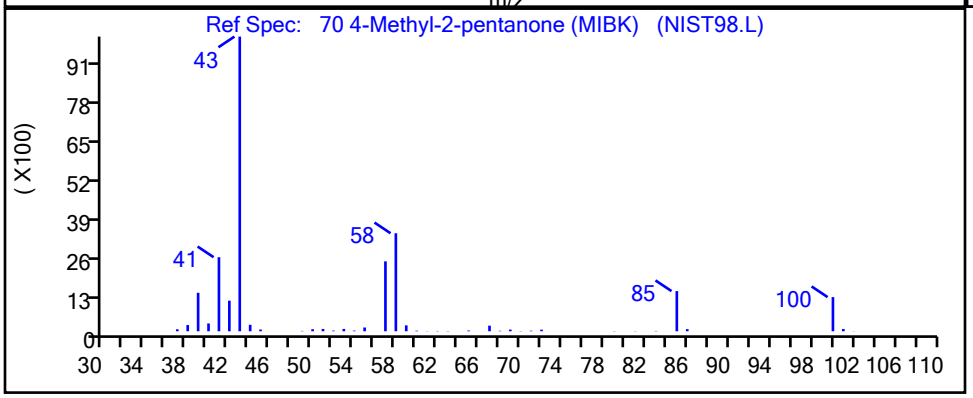
Processing Results











RT	Mass	Response	Amount
6.44	43.00	4937	0.203789
6.46	58.00	8627	

Reviewer: laveyt, 30-Sep-2020 18:39:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453487/6

Matrix: Water Lab File ID: UXM31389.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 10:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	40.6		5.0	5.4
71-43-2	Benzene	19.3		1.0	0.13
108-86-1	Bromobenzene	18.3		1.0	0.12
74-97-5	Bromochloromethane	17.7		1.0	0.14
75-27-4	Bromodichloromethane	19.0		1.0	0.17
75-25-2	Bromoform	17.9		1.0	0.76
74-83-9	Bromomethane	12.9		1.0	0.42
78-93-3	2-Butanone	41.2		5.0	1.2
75-15-0	Carbon disulfide	18.1		1.0	0.28
56-23-5	Carbon tetrachloride	18.0		1.0	0.26
108-90-7	Chlorobenzene	18.5		1.0	0.14
75-00-3	Chloroethane	19.6		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	19.8		10	0.26
67-66-3	Chloroform	18.6		1.0	0.13
74-87-3	Chloromethane	18.8		1.0	0.20
95-49-8	2-Chlorotoluene	18.2		1.0	0.15
106-43-4	4-Chlorotoluene	18.7		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	18.8		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	19.9		1.0	0.61
124-48-1	Dibromochloromethane	18.3		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		5.0	0.91
106-93-4	1,2-Dibromoethane	19.3		1.0	0.12
74-95-3	Dibromomethane	18.6		1.0	0.090
95-50-1	1,2-Dichlorobenzene	17.7		1.0	0.15
541-73-1	1,3-Dichlorobenzene	17.8		1.0	0.15
106-46-7	1,4-Dichlorobenzene	18.1		1.0	0.16
75-71-8	Dichlorodifluoromethane	20.0		1.0	0.35
75-34-3	1,1-Dichloroethane	19.4		1.0	0.17
107-06-2	1,2-Dichloroethane	19.7		1.0	0.21
75-35-4	1,1-Dichloroethene	18.5		1.0	0.19
78-87-5	1,2-Dichloropropane	20.2		1.0	0.15
142-28-9	1,3-Dichloropropane	20.2		1.0	0.21
594-20-7	2,2-Dichloropropane	19.5		1.0	0.31
563-58-6	1,1-Dichloropropene	19.2		1.0	0.14
100-41-4	Ethylbenzene	18.7		1.0	0.11
87-68-3	Hexachlorobutadiene	20.8		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453487/6

Matrix: Water Lab File ID: UXM31389.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 10:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	45.3		5.0	0.54
98-82-8	Isopropylbenzene	19.4		1.0	0.090
75-09-2	Methylene Chloride	18.0		5.0	2.6
108-10-1	4-Methyl-2-pentanone	44.8		5.0	0.42
1634-04-4	Methyl tert-butyl ether	20.6		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	18.9		2.0	0.080
91-20-3	Naphthalene	18.4		1.0	0.32
104-51-8	n-Butylbenzene	18.9		1.0	0.14
103-65-1	n-Propylbenzene	18.5		1.0	0.15
95-47-6	o-Xylene	18.8		1.0	0.090
99-87-6	p-Isopropyltoluene	18.9		1.0	0.13
135-98-8	sec-Butylbenzene	19.0		1.0	0.13
100-42-5	Styrene	19.0		1.0	0.10
75-65-0	tert-Butyl alcohol	232		20	1.7
98-06-6	tert-Butylbenzene	18.4		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	18.6		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	19.8		1.0	0.13
127-18-4	Tetrachloroethene	18.8		1.0	0.15
108-88-3	Toluene	19.2		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	18.6		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	18.7		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	18.6		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	18.9		1.0	0.26
71-55-6	1,1,1-Trichloroethane	18.8		1.0	0.24
79-01-6	Trichloroethene	17.9		1.0	0.10
75-69-4	Trichlorofluoromethane	20.8		1.0	0.45
96-18-4	1,2,3-Trichloropropane	19.2		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	20.4		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	19.4		1.0	0.070
108-05-4	Vinyl acetate	18.1		2.0	0.19
75-01-4	Vinyl chloride	20.1		0.50	0.20
1330-20-7	Xylenes, Total	37.7		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453487/6

Matrix: Water Lab File ID: UXM31389.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 10:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31389.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Sep-2020 10:37:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102406-006
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 11:38:19 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 11:38:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	913212	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	715336	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	411154	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	225223	24.9	22.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.001	97	258034	24.9	23.9	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	93	931825	24.9	24.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	96	353536	24.9	25.5	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	225350	20.0	20.0	
10 Chloromethane	50	1.909	1.908	0.001	99	270542	20.0	18.8	
11 Vinyl chloride	62	2.027	2.027	0.000	98	310535	20.0	20.1	
12 Butadiene	54	2.075	2.074	0.001	98	289023	20.0	21.2	
13 Bromomethane	94	2.371	2.371	0.000	90	127592	20.0	12.9	
14 Chloroethane	64	2.490	2.489	0.001	99	161226	20.0	19.6	
15 Dichlorofluoromethane	67	2.727	2.727	0.000	97	363929	20.0	20.8	
16 Trichlorofluoromethane	101	2.751	2.750	0.001	98	321473	20.0	20.8	
17 Ethyl ether	59	3.035	3.035	0.000	88	150080	20.0	20.6	
18 Acrolein	56	3.177	3.177	0.000	98	42707	100.0	78.4	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	173364	20.0	18.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	150398	20.0	20.4	
21 Acetone	58	3.308	3.308	0.000	100	33074	40.0	40.6	
23 Iodomethane	142	3.415	3.414	0.001	97	111052	20.0	7.69	
24 Carbon disulfide	76	3.474	3.474	0.000	99	545254	20.0	18.1	
27 Methyl acetate	43	3.604	3.604	0.000	97	259218	40.0	45.9	
26 3-Chloro-1-propene	41	3.616	3.616	0.000	87	247255	20.0	20.1	
28 Methylene Chloride	84	3.735	3.735	0.000	89	199858	20.0	18.0	
29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	166894	200.0	231.7	
30 Acrylonitrile	53	3.948	3.948	0.000	99	724147	200.0	216.6	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	95	533550	20.0	20.6	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	97	206239	20.0	18.6	
33 Hexane	57	4.221	4.233	-0.012	91	277757	20.0	23.0	
35 Vinyl acetate	43	4.363	4.375	-0.012	98	266713	20.0	18.1	
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	331969	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	44540	40.0	41.2	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	81	221602	20.0	18.8	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	88	287301	20.0	19.5	
45 Chlorobromomethane	128	5.087	5.086	0.001	90	98799	20.0	17.7	
46 Tetrahydrofuran	42	5.087	5.086	0.001	84	100074	40.0	46.6	
47 Chloroform	83	5.158	5.158	0.000	94	329012	20.0	18.6	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	293018	20.0	18.8	
49 Cyclohexane	56	5.371	5.371	0.000	87	308033	20.0	21.1	
51 Carbon tetrachloride	117	5.442	5.442	0.000	88	249397	20.0	18.0	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	265839	20.0	19.2	
52 Isobutyl alcohol	41	5.502	5.502	0.000	94	129512	500.0	582.5	
54 Benzene	78	5.620	5.620	0.000	96	808112	20.0	19.3	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	250982	20.0	19.7	
56 n-Heptane	57	5.846	5.845	0.001	87	174661	20.0	22.2	
58 Trichloroethene	130	6.178	6.177	0.001	96	223410	20.0	17.9	
60 Methylcyclohexane	83	6.379	6.391	-0.012	88	345576	20.0	20.1	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	94	192440	20.0	20.2	
64 1,4-Dioxane	88	6.462	6.462	0.000	91	47167	400.0	421.5	
63 Dibromomethane	93	6.486	6.486	0.000	91	111667	20.0	18.6	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	240731	20.0	19.0	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	116415	20.0	19.8	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	308764	20.0	19.9	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	95	287196	40.0	44.8	
70 Toluene	91	7.316	7.316	0.000	98	862170	20.0	19.2	
71 trans-1,3-Dichloropropene	75	7.518	7.517	0.001	93	261456	20.0	18.7	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	210773	20.0	20.1	
73 1,1,2-Trichloroethane	97	7.696	7.695	0.001	90	168640	20.0	19.7	
75 Tetrachloroethene	164	7.779	7.778	0.001	97	189036	20.0	18.8	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	87	299983	20.0	20.2	
76 2-Hexanone	43	7.873	7.873	0.000	96	201939	40.0	45.3	
78 Chlorodibromomethane	129	8.051	8.051	0.000	90	174534	20.0	18.3	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	168791	20.0	19.3	
82 Chlorobenzene	112	8.620	8.620	0.000	96	569877	20.0	18.5	
84 Ethylbenzene	106	8.704	8.703	0.001	98	312005	20.0	18.7	
83 1,1,1,2-Tetrachloroethane	131	8.704	8.703	0.001	94	189307	20.0	18.6	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	387516	20.0	18.9	
86 o-Xylene	106	9.190	9.190	0.000	97	368459	20.0	18.8	
87 Styrene	104	9.213	9.213	0.000	95	614763	20.0	19.0	
88 Bromoform	173	9.391	9.403	-0.012	97	116275	20.0	17.9	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	970868	20.0	19.4	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	207895	20.0	19.8	
93 Bromobenzene	156	9.866	9.865	0.001	91	248775	20.0	18.3	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	76	59524	20.0	19.8	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	83	70977	20.0	19.2	
96 N-Propylbenzene	120	9.949	9.948	0.001	98	283183	20.0	18.5	
97 2-Chlorotoluene	126	10.044	10.043	0.001	97	235022	20.0	18.2	
99 1,3,5-Trimethylbenzene	105	10.127	10.126	0.001	95	785939	20.0	18.9	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	250034	20.0	18.7	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	700159	20.0	18.4	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	795156	20.0	19.4	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	1038966	20.0	19.0	
106 1,3-Dichlorobenzene	146	10.791	10.790	0.001	99	465102	20.0	17.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	891851	20.0	18.9	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	476575	20.0	18.1	
111 n-Butylbenzene	91	11.218	11.217	0.001	97	758658	20.0	18.9	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	427791	20.0	17.7	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	89	44013	20.0	18.5	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	93	259891	20.0	18.9	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	94	145259	20.0	20.8	
117 Naphthalene	128	13.150	13.150	0.000	96	566145	20.0	18.4	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	95	229795	20.0	18.6	
S 134 Trihalomethanes, Total	1				0		80.0	73.8	
S 158 Total BTEX	1				0		100.0	94.8	
S 133 Xylenes, Total	106				0		40.0	37.6	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00367	Amount Added: 16.00	Units: uL		
vmfasgw_00378	Amount Added: 16.00	Units: uL		
vmfasaw_00345	Amount Added: 16.00	Units: uL		
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00181	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00085	Amount Added: 2.49	Units: uL	Run Reagent	

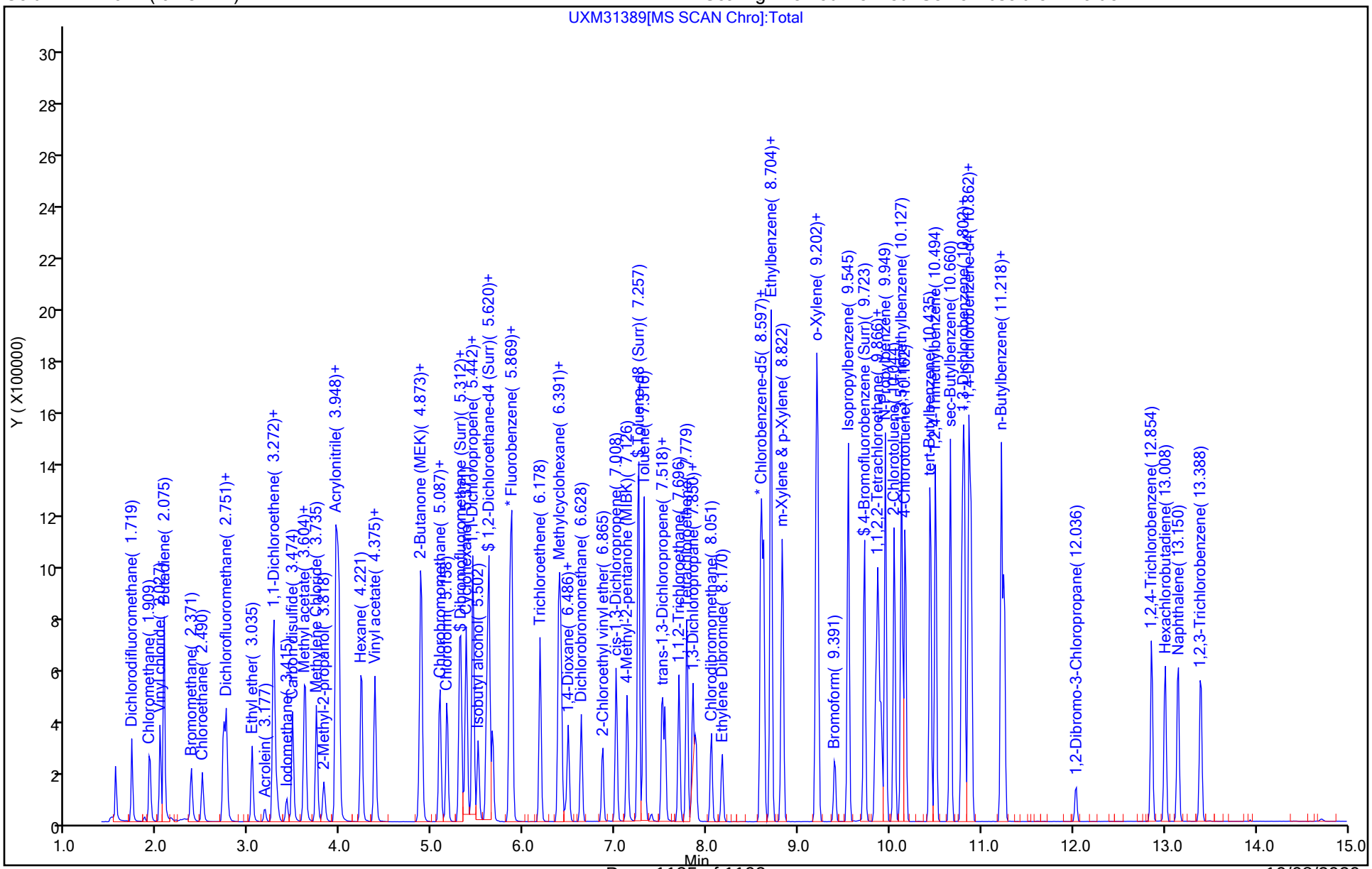
Report Date: 29-Sep-2020 11:38:20 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31389.D

Injection Date:	29-Sep-2020 10:37:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31389.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	29-Sep-2020 10:37:30	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0102406-006				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	29-Sep-2020 11:38:19	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1605				

First Level Reviewer: bosworthh Date: 29-Sep-2020 11:38:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	22.6	90.80
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	23.9	96.10
$ 6 Toluene-d8 (Surr)	24.9	24.2	97.22
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.5	102.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453571/5

Matrix: Water Lab File ID: U1280878.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 18:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	46.3		5.0	5.4
71-43-2	Benzene	20.2		1.0	0.13
108-86-1	Bromobenzene	22.3		1.0	0.12
74-97-5	Bromochloromethane	18.1		1.0	0.14
75-27-4	Bromodichloromethane	20.6		1.0	0.17
75-25-2	Bromoform	21.0		1.0	0.76
74-83-9	Bromomethane	18.2		1.0	0.42
78-93-3	2-Butanone	39.2		5.0	1.2
75-15-0	Carbon disulfide	22.8		1.0	0.28
56-23-5	Carbon tetrachloride	20.5		1.0	0.26
108-90-7	Chlorobenzene	21.4		1.0	0.14
75-00-3	Chloroethane	18.6		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	22.3		10	0.26
67-66-3	Chloroform	19.0		1.0	0.13
74-87-3	Chloromethane	20.2		1.0	0.20
95-49-8	2-Chlorotoluene	22.0		1.0	0.15
106-43-4	4-Chlorotoluene	21.8		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	18.0		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	21.3		1.0	0.61
124-48-1	Dibromochloromethane	20.1		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	24.3		5.0	0.91
106-93-4	1,2-Dibromoethane	20.8		1.0	0.12
74-95-3	Dibromomethane	20.2		1.0	0.090
95-50-1	1,2-Dichlorobenzene	20.6		1.0	0.15
541-73-1	1,3-Dichlorobenzene	21.4		1.0	0.15
106-46-7	1,4-Dichlorobenzene	21.2		1.0	0.16
75-71-8	Dichlorodifluoromethane	20.6		1.0	0.35
75-34-3	1,1-Dichloroethane	21.2		1.0	0.17
107-06-2	1,2-Dichloroethane	19.2		1.0	0.21
75-35-4	1,1-Dichloroethene	23.5		1.0	0.19
78-87-5	1,2-Dichloropropane	22.4		1.0	0.15
142-28-9	1,3-Dichloropropane	20.8		1.0	0.21
594-20-7	2,2-Dichloropropane	18.6		1.0	0.31
563-58-6	1,1-Dichloropropene	20.8		1.0	0.14
100-41-4	Ethylbenzene	22.4		1.0	0.11
87-68-3	Hexachlorobutadiene	22.9		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453571/5

Matrix: Water Lab File ID: U1280878.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 18:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	44.4		5.0	0.54
98-82-8	Isopropylbenzene	22.2		1.0	0.090
75-09-2	Methylene Chloride	21.5		5.0	2.6
108-10-1	4-Methyl-2-pentanone	42.4		5.0	0.42
1634-04-4	Methyl tert-butyl ether	20.7		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	22.4		2.0	0.080
91-20-3	Naphthalene	23.9		1.0	0.32
104-51-8	n-Butylbenzene	22.9		1.0	0.14
103-65-1	n-Propylbenzene	23.4		1.0	0.15
95-47-6	o-Xylene	21.2		1.0	0.090
99-87-6	p-Isopropyltoluene	23.1		1.0	0.13
135-98-8	sec-Butylbenzene	22.2		1.0	0.13
100-42-5	Styrene	21.6		1.0	0.10
75-65-0	tert-Butyl alcohol	267		20	1.7
98-06-6	tert-Butylbenzene	22.7		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	20.8		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	22.1		1.0	0.13
127-18-4	Tetrachloroethene	21.6		1.0	0.15
108-88-3	Toluene	20.6		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	23.1		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	20.1		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	23.5		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	23.0		1.0	0.26
71-55-6	1,1,1-Trichloroethane	20.6		1.0	0.24
79-01-6	Trichloroethene	21.6		1.0	0.10
75-69-4	Trichlorofluoromethane	18.7		1.0	0.45
96-18-4	1,2,3-Trichloropropane	22.1		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	23.3		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	22.1		1.0	0.070
108-05-4	Vinyl acetate	19.7		2.0	0.19
75-01-4	Vinyl chloride	20.2		0.50	0.20
1330-20-7	Xylenes, Total	43.6		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453571/5

Matrix: Water Lab File ID: U1280878.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 18:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453571 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	102		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280878.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Sep-2020 18:13:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-005
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 16:53:54 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: laveyt Date: 29-Sep-2020 18:57:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1190397	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	86	834222	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	419108	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	285074	20.0	18.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	96	355335	20.0	18.4	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1147918	20.0	20.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.846	0.012	96	413734	20.0	21.4	
9 Dichlorodifluoromethane	85	1.392	1.403	-0.011	99	383781	20.0	20.6	
10 Chloromethane	50	1.593	1.628	-0.035	98	638516	20.0	20.2	
11 Butadiene	54	1.640	1.640	0.000	91	506763	20.0	23.1	
12 Vinyl chloride	62	1.676	1.687	-0.011	97	450210	20.0	20.2	
14 Bromomethane	94	1.924	1.948	-0.024	91	268741	20.0	18.2	
15 Chloroethane	64	1.983	1.995	-0.012	100	301020	20.0	18.6	
16 Dichlorofluoromethane	67	2.173	2.184	-0.011	97	628606	20.0	18.6	
17 Trichlorofluoromethane	101	2.173	2.255	-0.082	98	488317	20.0	18.7	
19 Ethyl ether	59	2.433	2.433	0.000	93	359348	20.0	19.9	
20 Acrolein	56	2.551	2.551	0.000	100	97655	100.0	62.7	
21 1,1-Dichloroethene	61	2.622	2.622	0.000	97	563289	20.0	23.5	
22 112TCTFE	101	2.658	2.670	-0.012	94	327554	20.0	23.3	
23 Acetone	43	2.681	2.681	0.000	100	351198	40.0	46.3	
24 Iodomethane	142	2.764	2.764	0.000	97	503555	20.0	20.7	
25 Carbon disulfide	76	2.812	2.812	0.000	99	1099826	20.0	22.8	
27 3-Chloro-1-propene	41	2.942	2.942	0.000	92	629251	20.0	23.4	
28 Methyl acetate	43	2.965	2.965	0.000	98	883541	40.0	48.4	
29 Methylene Chloride	49	3.048	3.048	0.000	95	470921	20.0	21.5	
30 2-Methyl-2-propanol	59	3.166	3.167	-0.001	100	604530	200.0	267.4	
31 Acrylonitrile	53	3.273	3.273	0.000	99	2144577	200.0	226.8	
32 trans-1,2-Dichloroethene	61	3.285	3.285	0.000	97	529791	20.0	23.1	
33 Methyl tert-butyl ether	73	3.285	3.285	0.000	96	1093774	20.0	20.7	
34 Hexane	57	3.510	3.510	0.000	92	632243	20.0	24.8	
35 1,1-Dichloroethane	63	3.640	3.640	0.000	96	647840	20.0	21.2	
36 Vinyl acetate	43	3.687	3.687	0.000	97	850418	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2,2-Dichloropropane	77	4.137	4.125	0.012	61	391281	20.0	18.6	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	82	385187	20.0	18.0	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	100	147231	40.0	39.2	
46 Chlorobromomethane	49	4.338	4.326	0.012	97	314448	20.0	18.1	
47 Tetrahydrofuran	42	4.373	4.373	0.000	89	411392	40.0	42.9	
48 Chloroform	83	4.397	4.397	0.000	94	575750	20.0	19.0	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	496105	20.0	20.6	
50 Cyclohexane	84	4.598	4.598	0.000	91	586015	20.0	20.6	
51 1,1-Dichloropropene	75	4.681	4.681	0.000	94	507456	20.0	20.8	
52 Carbon tetrachloride	117	4.693	4.693	0.000	78	401293	20.0	20.5	
53 Isobutyl alcohol	41	4.788	4.788	0.000	95	577969	500.0	601.9	
54 Benzene	78	4.859	4.859	0.000	97	1474691	20.0	20.2	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	96	454692	20.0	19.2	
57 n-Heptane	57	5.072	5.072	0.000	92	284818	20.0	22.1	
59 Trichloroethene	130	5.403	5.403	0.000	97	356683	20.0	21.6	
61 Methylcyclohexane	83	5.569	5.569	0.000	89	639923	20.0	22.1	
62 1,2-Dichloropropane	63	5.604	5.592	0.012	93	353430	20.0	22.4	
64 Dibromomethane	174	5.699	5.699	0.000	94	225806	20.0	20.2	
65 1,4-Dioxane	88	5.711	5.711	0.000	96	116652	400.0	566.7	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	406305	20.0	20.6	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	92	264614	20.0	22.3	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	533083	20.0	21.3	
70 4-Methyl-2-pentanone (MIBK)	43	6.350	6.350	0.000	96	1094330	40.0	42.4	
71 Toluene	91	6.503	6.503	0.000	99	1427516	20.0	20.6	
72 trans-1,3-Dichloropropene	75	6.705	6.705	0.000	94	451330	20.0	20.1	
74 Ethyl methacrylate	69	6.776	6.776	0.000	91	504965	20.0	22.3	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	279705	20.0	20.6	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	358349	20.0	21.6	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	529671	20.0	20.8	
78 2-Hexanone	43	7.083	7.083	0.000	97	805922	40.0	44.4	
80 Chlorodibromomethane	129	7.225	7.225	0.000	91	267501	20.0	20.1	
81 Ethylene Dibromide	107	7.332	7.332	0.000	99	291596	20.0	20.8	
83 Chlorobenzene	112	7.781	7.781	0.000	95	865969	20.0	21.4	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	94	287058	20.0	20.8	
85 Ethylbenzene	106	7.876	7.876	0.000	98	497183	20.0	22.4	
86 m-Xylene & p-Xylene	106	7.982	7.983	-0.001	99	616095	20.0	22.4	
87 o-Xylene	106	8.361	8.361	0.000	97	600222	20.0	21.2	
88 Styrene	104	8.373	8.373	0.000	95	980979	20.0	21.6	
89 Bromoform	173	8.550	8.551	0.000	97	192414	20.0	21.0	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	1576270	20.0	22.2	
93 1,1,2,2-Tetrachloroethane	83	9.000	8.988	0.012	85	463187	20.0	22.1	
92 Bromobenzene	156	9.000	9.000	0.000	93	365755	20.0	22.3	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	86	159795	20.0	22.1	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.047	0.000	86	121909	20.0	19.9	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	416471	20.0	23.4	
97 2-Chlorotoluene	126	9.189	9.178	0.011	97	347001	20.0	22.0	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	1212862	20.0	23.1	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	351188	20.0	21.8	
102 tert-Butylbenzene	119	9.592	9.580	0.012	92	1046183	20.0	22.7	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	97	1219579	20.0	22.1	
105 sec-Butylbenzene	105	9.805	9.793	0.012	94	1481951	20.0	22.2	
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	99	665516	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	9.947	9.935	0.012	97	1283990	20.0	23.1	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	96	682401	20.0	21.2	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	1063885	20.0	22.9	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	635316	20.0	20.6	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	85	119071	20.0	24.3	
115 1,2,4-Trichlorobenzene	180	11.947	11.947	-0.001	93	391755	20.0	23.0	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	94	149270	20.0	22.9	
117 Naphthalene	128	12.195	12.195	0.000	97	1346099	20.0	23.9	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	95	367829	20.0	23.5	
S 124 Trihalomethanes, Total	1				0		80.0	80.6	
S 125 Total BTEX	1				0		100.0	106.7	
S 128 Xylenes, Total	106				0		40.0	43.6	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00378	Amount Added:	16.00	Units: uL	
vmfaspw_00367	Amount Added:	16.00	Units: uL	
vmfasaw_00345	Amount Added:	16.00	Units: uL	
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

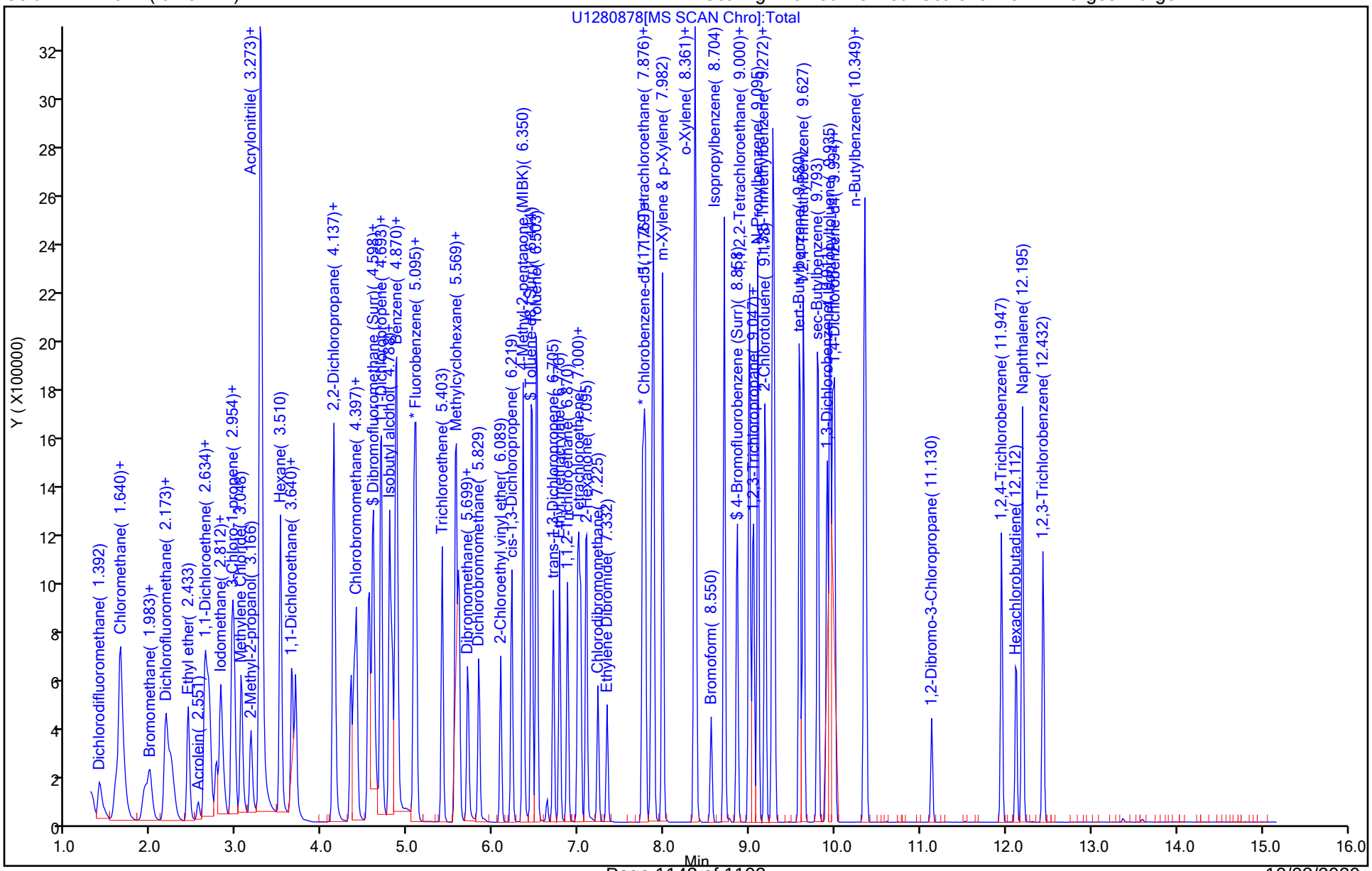
Report Date: 29-Sep-2020 18:57:39 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280878.D

Injection Date:	29-Sep-2020 18:13:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\U1280878.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Sep-2020 18:13:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102415-005
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200929-102415.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 16:53:54 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: laveyt Date: 29-Sep-2020 18:57:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.0	90.21
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.4	91.88
$ 6 Toluene-d8 (Surr)	20.0	20.3	101.72
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.4	107.08

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453771/5

Matrix: Water Lab File ID: U1280904a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 17:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	43.5		5.0	5.4
71-43-2	Benzene	19.8		1.0	0.13
108-86-1	Bromobenzene	21.7		1.0	0.12
74-97-5	Bromochloromethane	17.9		1.0	0.14
75-27-4	Bromodichloromethane	20.3		1.0	0.17
75-25-2	Bromoform	20.7		1.0	0.76
74-83-9	Bromomethane	18.4		1.0	0.42
78-93-3	2-Butanone	37.5		5.0	1.2
75-15-0	Carbon disulfide	22.7		1.0	0.28
56-23-5	Carbon tetrachloride	20.2		1.0	0.26
108-90-7	Chlorobenzene	21.2		1.0	0.14
75-00-3	Chloroethane	18.8		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	20.4		10	0.26
67-66-3	Chloroform	18.7		1.0	0.13
74-87-3	Chloromethane	20.3		1.0	0.20
95-49-8	2-Chlorotoluene	21.5		1.0	0.15
106-43-4	4-Chlorotoluene	21.4		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	18.1		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	20.7		1.0	0.61
124-48-1	Dibromochloromethane	20.0		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	23.8		5.0	0.91
106-93-4	1,2-Dibromoethane	20.5		1.0	0.12
74-95-3	Dibromomethane	19.7		1.0	0.090
95-50-1	1,2-Dichlorobenzene	20.5		1.0	0.15
541-73-1	1,3-Dichlorobenzene	21.0		1.0	0.15
106-46-7	1,4-Dichlorobenzene	20.5		1.0	0.16
75-71-8	Dichlorodifluoromethane	19.9		1.0	0.35
75-34-3	1,1-Dichloroethane	20.9		1.0	0.17
107-06-2	1,2-Dichloroethane	18.6		1.0	0.21
75-35-4	1,1-Dichloroethene	23.3		1.0	0.19
78-87-5	1,2-Dichloropropane	21.5		1.0	0.15
142-28-9	1,3-Dichloropropane	20.3		1.0	0.21
594-20-7	2,2-Dichloropropane	17.6		1.0	0.31
563-58-6	1,1-Dichloropropene	20.7		1.0	0.14
100-41-4	Ethylbenzene	22.3		1.0	0.11
87-68-3	Hexachlorobutadiene	22.8		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453771/5

Matrix: Water Lab File ID: U1280904a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 17:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	42.0		5.0	0.54
98-82-8	Isopropylbenzene	22.2		1.0	0.090
75-09-2	Methylene Chloride	21.6		5.0	2.6
108-10-1	4-Methyl-2-pentanone	39.6		5.0	0.42
1634-04-4	Methyl tert-butyl ether	20.4		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	22.2		2.0	0.080
91-20-3	Naphthalene	23.6		1.0	0.32
104-51-8	n-Butylbenzene	22.6		1.0	0.14
103-65-1	n-Propylbenzene	23.1		1.0	0.15
95-47-6	o-Xylene	21.2		1.0	0.090
99-87-6	p-Isopropyltoluene	22.5		1.0	0.13
135-98-8	sec-Butylbenzene	22.1		1.0	0.13
100-42-5	Styrene	21.3		1.0	0.10
75-65-0	tert-Butyl alcohol	242		20	1.7
98-06-6	tert-Butylbenzene	22.4		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	20.8		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.0	0.13
127-18-4	Tetrachloroethene	21.5		1.0	0.15
108-88-3	Toluene	20.5		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	23.0		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	19.9		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	23.1		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	22.5		1.0	0.26
71-55-6	1,1,1-Trichloroethane	19.9		1.0	0.24
79-01-6	Trichloroethene	21.2		1.0	0.10
75-69-4	Trichlorofluoromethane	19.2		1.0	0.45
96-18-4	1,2,3-Trichloropropane	21.1		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	23.4		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	21.8		1.0	0.070
108-05-4	Vinyl acetate	18.0		2.0	0.19
75-01-4	Vinyl chloride	20.2		0.50	0.20
1330-20-7	Xylenes, Total	43.4		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: LCS 240-453771/5

Matrix: Water Lab File ID: U1280904a.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/30/2020 17:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453771 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	102		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280904a.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Sep-2020 17:14:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-005
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 16:03:58 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 18:09:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	1161794	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.746	7.746	0.000	87	788953	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	95	400811	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	4.539	4.539	0.000	94	277919	20.0	18.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.823	4.823	0.000	95	348879	20.0	18.5	
$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	93	1087177	20.0	20.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.858	8.858	0.000	96	389786	20.0	21.3	
9 Dichlorodifluoromethane	85	1.403	1.403	0.000	99	361399	20.0	19.9	
10 Chloromethane	50	1.640	1.616	0.024	98	625580	20.0	20.3	
11 Butadiene	54	1.652	1.652	0.000	90	492074	20.0	23.0	
12 Vinyl chloride	62	1.687	1.687	0.000	97	439446	20.0	20.2	
14 Bromomethane	94	1.959	1.948	0.011	91	264624	20.0	18.4	
15 Chloroethane	64	2.007	2.007	0.000	100	297134	20.0	18.8	
16 Dichlorofluoromethane	67	2.184	2.184	0.000	97	610352	20.0	18.5	
17 Trichlorofluoromethane	101	2.184	2.184	0.000	96	488109	20.0	19.2	
19 Ethyl ether	59	2.445	2.445	0.000	92	345166	20.0	19.6	
20 Acrolein	56	2.551	2.563	-0.012	99	89054	100.0	58.6	
21 1,1-Dichloroethene	61	2.634	2.634	0.000	97	544230	20.0	23.3	
22 112TCTFE	101	2.681	2.681	0.000	94	321643	20.0	23.4	
23 Acetone	43	2.693	2.693	0.000	100	321385	40.0	43.5	
24 Iodomethane	142	2.764	2.776	-0.012	97	489728	20.0	20.6	
25 Carbon disulfide	76	2.823	2.823	0.000	99	1069212	20.0	22.7	
27 3-Chloro-1-propene	41	2.953	2.954	-0.001	91	611376	20.0	23.3	
28 Methyl acetate	43	2.977	2.977	0.000	98	843122	40.0	47.3	
29 Methylene Chloride	49	3.060	3.060	0.000	94	460040	20.0	21.6	
30 2-Methyl-2-propanol	59	3.166	3.167	0.000	99	534768	200.0	242.4	
31 Acrylonitrile	53	3.273	3.273	0.000	99	2038032	200.0	220.9	
32 trans-1,2-Dichloroethene	61	3.297	3.297	0.000	69	515657	20.0	23.0	
33 Methyl tert-butyl ether	73	3.297	3.297	0.000	96	1050033	20.0	20.4	
34 Hexane	57	3.521	3.522	-0.001	92	599066	20.0	24.1	
35 1,1-Dichloroethane	63	3.652	3.652	0.000	96	624355	20.0	20.9	
36 Vinyl acetate	43	3.699	3.699	0.000	97	757150	20.0	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2,2-Dichloropropane	77	4.137	4.137	0.000	60	361494	20.0	17.6	
41 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	83	377894	20.0	18.1	
42 2-Butanone (MEK)	72	4.149	4.149	0.000	100	137317	40.0	37.5	
46 Chlorobromomethane	49	4.338	4.338	0.000	97	303536	20.0	17.9	
47 Tetrahydrofuran	42	4.373	4.373	0.000	89	385810	40.0	41.2	
48 Chloroform	83	4.409	4.409	0.000	94	553961	20.0	18.7	
49 1,1,1-Trichloroethane	97	4.551	4.551	0.000	99	466494	20.0	19.9	
50 Cyclohexane	84	4.598	4.598	0.000	91	591248	20.0	21.3	
51 1,1-Dichloropropene	75	4.693	4.693	0.000	95	495160	20.0	20.7	
52 Carbon tetrachloride	117	4.693	4.693	0.000	77	386028	20.0	20.2	
53 Isobutyl alcohol	41	4.788	4.788	0.000	96	530681	500.0	566.3	
54 Benzene	78	4.870	4.870	0.000	96	1415335	20.0	19.8	
55 1,2-Dichloroethane	62	4.882	4.882	0.000	97	429937	20.0	18.6	
57 n-Heptane	57	5.072	5.083	-0.011	92	266293	20.0	21.1	
59 Trichloroethene	130	5.403	5.403	0.000	98	341944	20.0	21.2	
61 Methylcyclohexane	83	5.569	5.569	0.000	90	610843	20.0	21.6	
62 1,2-Dichloropropane	63	5.604	5.604	0.000	93	330805	20.0	21.5	
64 Dibromomethane	174	5.711	5.711	0.000	94	215284	20.0	19.7	
65 1,4-Dioxane	88	5.711	5.711	0.000	94	107208	400.0	533.6	
66 Dichlorobromomethane	83	5.829	5.829	0.000	99	389717	20.0	20.3	
68 2-Chloroethyl vinyl ether	63	6.089	6.089	0.000	91	236849	20.0	20.4	
69 cis-1,3-Dichloropropene	75	6.219	6.219	0.000	95	504845	20.0	20.7	
70 4-Methyl-2-pentanone (MIBK)	43	6.349	6.350	-0.001	97	997478	40.0	39.6	
71 Toluene	91	6.515	6.515	0.000	99	1344035	20.0	20.5	
72 trans-1,3-Dichloropropene	75	6.704	6.705	-0.001	94	422550	20.0	19.9	
74 Ethyl methacrylate	69	6.775	6.776	-0.001	91	454184	20.0	21.2	
75 1,1,2-Trichloroethane	97	6.870	6.870	0.000	92	258791	20.0	20.2	
76 Tetrachloroethene	166	7.000	7.000	0.000	97	337441	20.0	21.5	
77 1,3-Dichloropropane	76	7.024	7.024	0.000	91	488299	20.0	20.3	
78 2-Hexanone	43	7.095	7.095	0.000	95	720948	40.0	42.0	
80 Chlorodibromomethane	129	7.225	7.225	0.000	91	252415	20.0	20.0	
81 Ethylene Dibromide	107	7.332	7.332	0.000	98	271452	20.0	20.5	
83 Chlorobenzene	112	7.781	7.781	0.000	95	810188	20.0	21.2	
84 1,1,1,2-Tetrachloroethane	131	7.852	7.852	0.000	95	271269	20.0	20.8	
85 Ethylbenzene	106	7.876	7.876	0.000	98	469341	20.0	22.3	
86 m-Xylene & p-Xylene	106	7.982	7.983	0.000	98	578885	20.0	22.2	
87 o-Xylene	106	8.361	8.361	0.000	97	569056	20.0	21.2	
88 Styrene	104	8.373	8.373	0.000	96	917337	20.0	21.3	
89 Bromoform	173	8.550	8.550	0.000	97	179447	20.0	20.7	
90 Isopropylbenzene	105	8.704	8.704	0.000	96	1491103	20.0	22.2	
93 1,1,2,2-Tetrachloroethane	83	9.000	9.000	0.000	85	439553	20.0	21.9	
92 Bromobenzene	156	9.000	9.000	0.000	93	339285	20.0	21.7	
94 1,2,3-Trichloropropane	110	9.036	9.036	0.000	86	145981	20.0	21.1	
95 trans-1,4-Dichloro-2-butene	53	9.047	9.047	0.000	90	113306	20.0	19.3	
96 N-Propylbenzene	120	9.095	9.095	0.000	99	393252	20.0	23.1	
97 2-Chlorotoluene	126	9.189	9.178	0.011	97	324132	20.0	21.5	
98 1,3,5-Trimethylbenzene	105	9.272	9.272	0.000	96	1138858	20.0	22.7	
99 4-Chlorotoluene	126	9.284	9.284	0.000	99	331169	20.0	21.4	
102 tert-Butylbenzene	119	9.580	9.580	0.000	92	987497	20.0	22.4	
104 1,2,4-Trimethylbenzene	105	9.627	9.627	0.000	96	1151911	20.0	21.8	
105 sec-Butylbenzene	105	9.793	9.793	0.000	95	1411103	20.0	22.1	
106 1,3-Dichlorobenzene	146	9.911	9.911	0.000	98	623102	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	9.947	9.947	0.000	97	1193910	20.0	22.5	
108 1,4-Dichlorobenzene	146	9.994	9.994	0.000	95	632131	20.0	20.5	
111 n-Butylbenzene	91	10.337	10.337	0.000	97	1007756	20.0	22.6	
112 1,2-Dichlorobenzene	146	10.361	10.361	0.000	98	605955	20.0	20.5	
113 1,2-Dibromo-3-Chloropropane	157	11.130	11.130	0.000	84	111336	20.0	23.8	
115 1,2,4-Trichlorobenzene	180	11.946	11.947	-0.001	94	366356	20.0	22.5	
116 Hexachlorobutadiene	225	12.124	12.124	0.000	95	141803	20.0	22.8	
117 Naphthalene	128	12.195	12.195	0.000	97	1272196	20.0	23.6	
118 1,2,3-Trichlorobenzene	180	12.432	12.432	0.000	95	346430	20.0	23.1	
S 124 Trihalomethanes, Total	1				0		80.0	79.7	
S 125 Total BTEX	1				0		100.0	106.2	
S 128 Xylenes, Total	106				0		40.0	43.5	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00378	Amount Added:	16.00	Units: uL	
vmfaspw_00368	Amount Added:	16.00	Units: uL	
vmfasaw_00345	Amount Added:	16.00	Units: uL	
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent

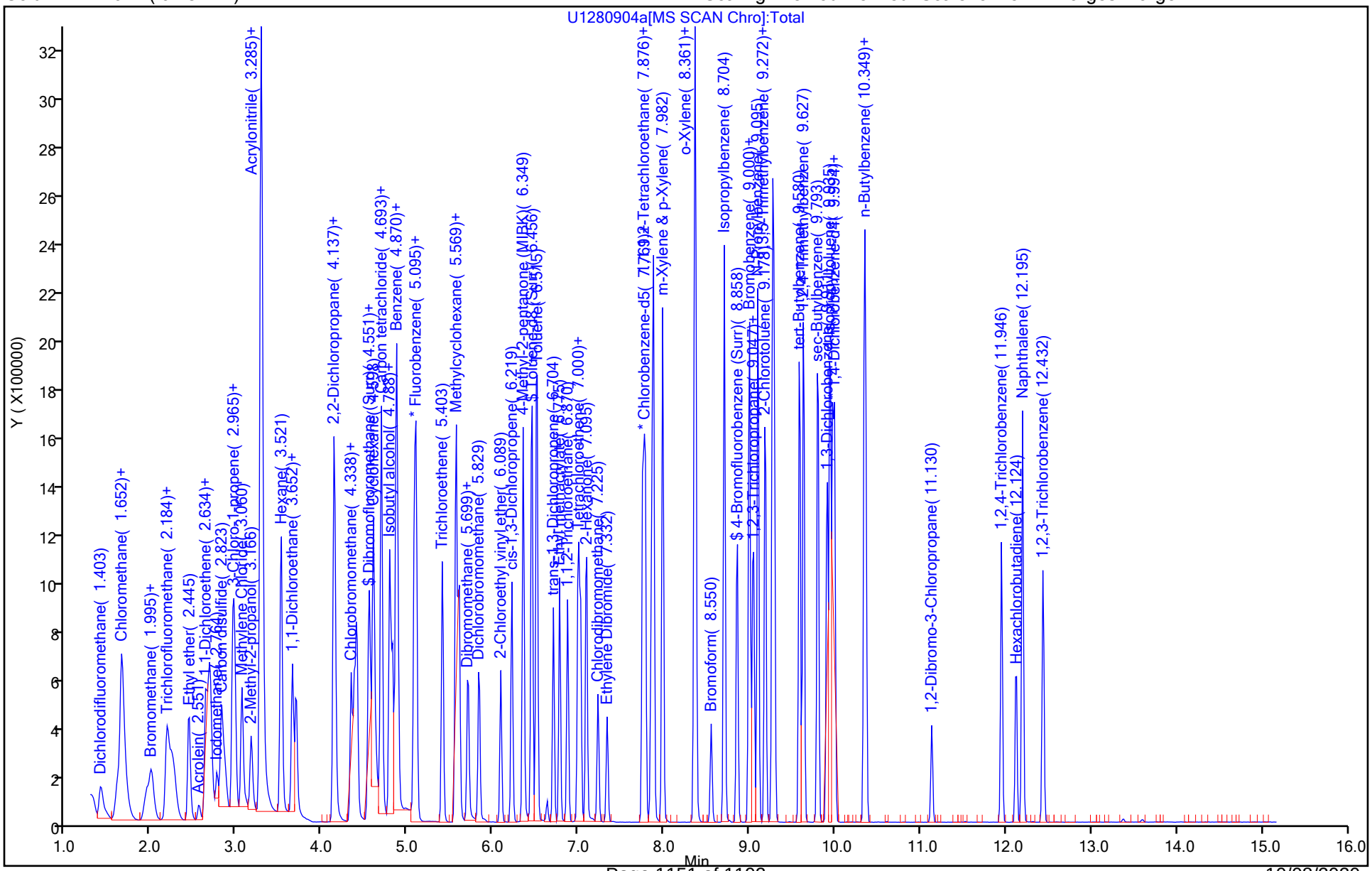
Report Date: 30-Sep-2020 18:09:20 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280904a.D

Injection Date:	30-Sep-2020 17:14:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_12_h2o	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\U1280904a.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Sep-2020 17:14:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0102455-005
Operator ID: 001904 Instrument ID: A3UX12

Method: \\chromfs\Canton\ChromData\A3UX12\20200930-102455.b\8260_12_h2o.m
Limit Group: MSV 8260C ICAL
Last Update: 30-Sep-2020 16:03:58 Calib Date: 16-Jul-2020 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX12\20200716-100113.b\U1279120.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: laveyt Date: 30-Sep-2020 18:09:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	18.0	90.11
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.5	92.43
$ 6 Toluene-d8 (Surr)	20.0	20.4	101.87
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.3	106.67

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: 240-137031-C-14 MS

Matrix: Water Lab File ID: UXM31395.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 13:07

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	201		25	27
71-43-2	Benzene	102		5.0	0.65
75-27-4	Bromodichloromethane	102		5.0	0.85
75-25-2	Bromoform	95.4		5.0	3.8
74-83-9	Bromomethane	58.6		5.0	2.1
78-93-3	2-Butanone	203		25	5.8
75-15-0	Carbon disulfide	98.1		5.0	1.4
56-23-5	Carbon tetrachloride	97.7		5.0	1.3
108-90-7	Chlorobenzene	99.7		5.0	0.70
75-00-3	Chloroethane	93.8		5.0	4.2
67-66-3	Chloroform	98.6		5.0	0.65
74-87-3	Chloromethane	87.9		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	99.4		5.0	0.80
10061-01-5	cis-1,3-Dichloropropene	103		5.0	3.1
124-48-1	Dibromochloromethane	97.4		5.0	2.0
75-34-3	1,1-Dichloroethane	102		5.0	0.85
107-06-2	1,2-Dichloroethane	104		5.0	1.1
75-35-4	1,1-Dichloroethene	99.5		5.0	0.95
78-87-5	1,2-Dichloropropane	107		5.0	0.75
100-41-4	Ethylbenzene	100		5.0	0.55
591-78-6	2-Hexanone	225		25	2.7
75-09-2	Methylene Chloride	94.7		25	13
108-10-1	4-Methyl-2-pentanone	225		25	2.1
179601-23-1	m-Xylene & p-Xylene	102		10	0.40
95-47-6	o-Xylene	99.7		5.0	0.45
100-42-5	Styrene	103		5.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	103		5.0	0.65
127-18-4	Tetrachloroethene	103		5.0	0.75
108-88-3	Toluene	102		5.0	0.70
156-60-5	trans-1,2-Dichloroethene	98.8		5.0	0.95
10061-02-6	trans-1,3-Dichloropropene	98.3		5.0	3.4
71-55-6	1,1,1-Trichloroethane	99.1		5.0	1.2
79-01-6	Trichloroethene	94.2		5.0	0.50
75-01-4	Vinyl chloride	343		2.5	1.0
1330-20-7	Xylenes, Total	202		10	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: 240-137031-C-14 MS

Matrix: Water Lab File ID: UXM31395.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 13:07

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
2037-26-5	Toluene-d8 (Surr)	98		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31395.D
Lims ID: 240-137031-C-14 MS
Client ID:
Sample Type: MS
Inject. Date: 29-Sep-2020 13:07:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 13:47:15 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 13:52:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	848058	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	660605	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	389096	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	208550	24.9	22.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.001	98	242166	24.9	24.2	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	93	864289	24.9	24.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	324198	24.9	25.3	
10 Chloromethane	50	1.909	1.908	0.001	99	234966	20.0	17.6	
11 Vinyl chloride	62	2.027	2.027	0.000	98	984484	20.0	68.6	
13 Bromomethane	94	2.371	2.371	0.000	90	108025	20.0	11.7	
14 Chloroethane	64	2.490	2.489	0.001	99	143339	20.0	18.8	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	172826	20.0	19.9	
21 Acetone	58	3.308	3.308	0.000	100	30418	40.0	40.2	
24 Carbon disulfide	76	3.474	3.474	0.000	99	549689	20.0	19.6	
28 Methylene Chloride	84	3.735	3.735	0.000	89	195343	20.0	18.9	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	98	203196	20.0	19.8	
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	324616	20.0	20.4	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	99	40773	40.0	40.6	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	81	218138	20.0	19.9	
47 Chloroform	83	5.158	5.158	0.000	94	323611	20.0	19.7	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	287237	20.0	19.8	
51 Carbon tetrachloride	117	5.442	5.442	0.000	88	251607	20.0	19.5	
54 Benzene	78	5.620	5.620	0.000	96	798086	20.0	20.5	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	245847	20.0	20.8	
58 Trichloroethene	130	6.178	6.177	0.001	96	217959	20.0	18.8	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	94	188701	20.0	21.3	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	238424	20.0	20.3	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	297459	20.0	20.6	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	95	267751	40.0	45.0	
70 Toluene	91	7.316	7.316	0.000	98	848523	20.0	20.5	
71 trans-1,3-Dichloropropene	75	7.518	7.517	0.001	92	253761	20.0	19.7	
73 1,1,2-Trichloroethane	97	7.696	7.695	0.001	90	165680	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
75 Tetrachloroethene	164	7.779	7.778	0.001	97	192053	20.0	20.7	
76 2-Hexanone	43	7.873	7.873	0.000	95	185009	40.0	44.9	
78 Chlorodibromomethane	129	8.051	8.051	0.000	91	171593	20.0	19.5	
82 Chlorobenzene	112	8.620	8.620	0.000	96	566141	20.0	19.9	
84 Ethylbenzene	106	8.703	8.703	0.000	98	309199	20.0	20.0	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	386425	20.0	20.4	
86 o-Xylene	106	9.190	9.190	0.000	97	361136	20.0	19.9	
87 Styrene	104	9.213	9.213	0.000	95	612503	20.0	20.5	
88 Bromoform	173	9.403	9.403	0.000	97	114532	20.0	19.1	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	204449	20.0	20.6	
S 133 Xylenes, Total	106				0		40.0	40.3	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00367	Amount Added:	16.00	Units: uL	
vmfasaw_00345	Amount Added:	16.00	Units: uL	
vmfasgw_00378	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.49	Units: uL	Run Reagent

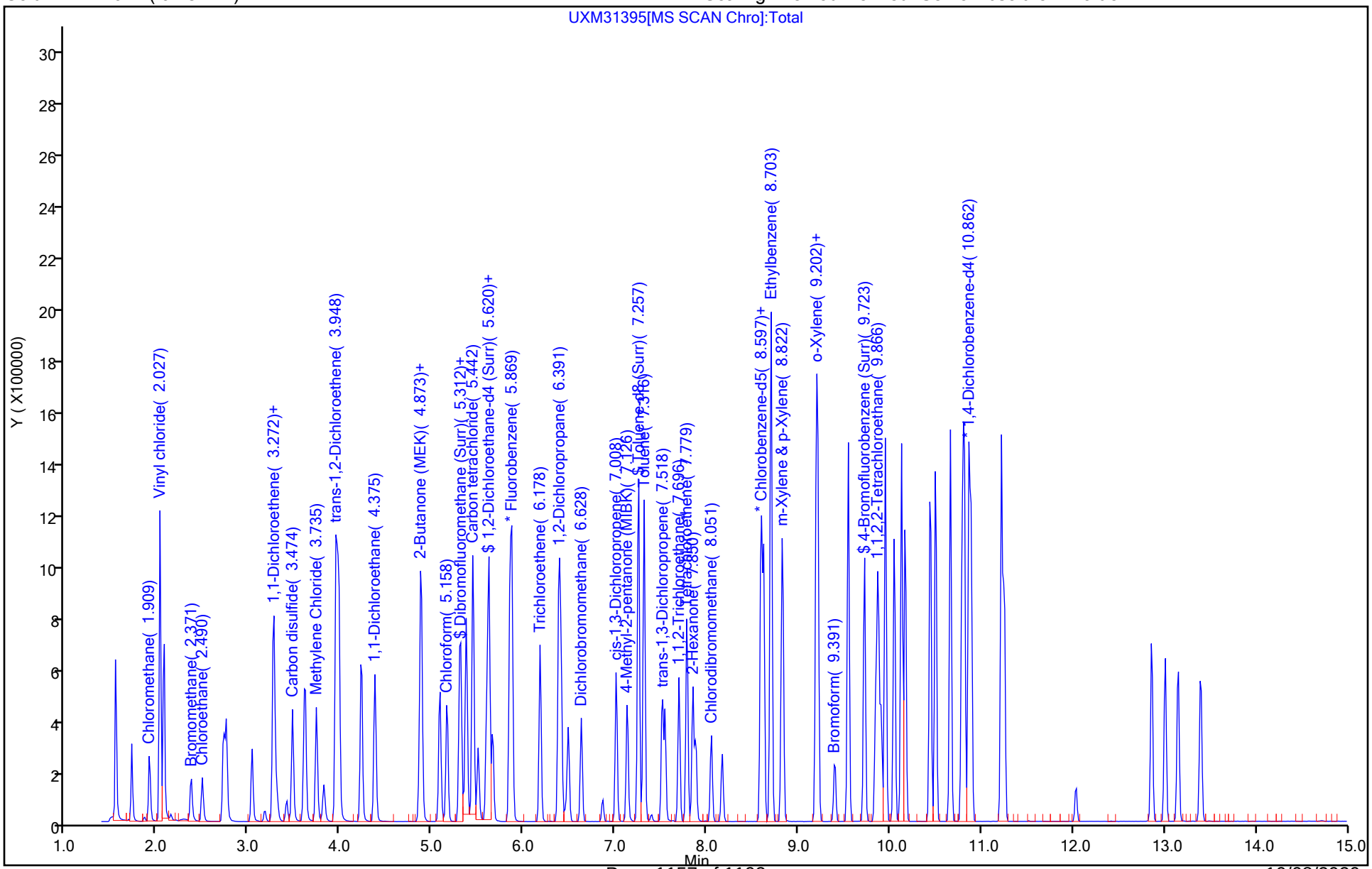
Report Date: 29-Sep-2020 13:52:20 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31395.D

Injection Date:	29-Sep-2020 13:07:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-137031-C-14 MS			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	12
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31395.D
Lims ID: 240-137031-C-14 MS
Client ID:
Sample Type: MS
Inject. Date: 29-Sep-2020 13:07:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 13:47:15 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 13:52:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	22.6	90.54
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.2	97.12
$ 6 Toluene-d8 (Surr)	24.9	24.3	97.65
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.3	101.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: 240-137031-C-14 MSD

Matrix: Water Lab File ID: UXM31396.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 13:32

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	201		25	27
71-43-2	Benzene	99.7		5.0	0.65
75-27-4	Bromodichloromethane	99.3		5.0	0.85
75-25-2	Bromoform	94.0		5.0	3.8
74-83-9	Bromomethane	61.5		5.0	2.1
78-93-3	2-Butanone	206		25	5.8
75-15-0	Carbon disulfide	95.7		5.0	1.4
56-23-5	Carbon tetrachloride	97.3		5.0	1.3
108-90-7	Chlorobenzene	96.6		5.0	0.70
75-00-3	Chloroethane	94.3		5.0	4.2
67-66-3	Chloroform	97.1		5.0	0.65
74-87-3	Chloromethane	89.8		5.0	1.0
156-59-2	cis-1,2-Dichloroethene	97.3		5.0	0.80
10061-01-5	cis-1,3-Dichloropropene	99.7		5.0	3.1
124-48-1	Dibromochloromethane	98.7		5.0	2.0
75-34-3	1,1-Dichloroethane	100		5.0	0.85
107-06-2	1,2-Dichloroethane	101		5.0	1.1
75-35-4	1,1-Dichloroethene	98.6		5.0	0.95
78-87-5	1,2-Dichloropropane	104		5.0	0.75
100-41-4	Ethylbenzene	98.2		5.0	0.55
591-78-6	2-Hexanone	219		25	2.7
75-09-2	Methylene Chloride	92.9		25	13
108-10-1	4-Methyl-2-pentanone	220		25	2.1
179601-23-1	m-Xylene & p-Xylene	98.8		10	0.40
95-47-6	o-Xylene	98.8		5.0	0.45
100-42-5	Styrene	100		5.0	0.50
79-34-5	1,1,2,2-Tetrachloroethane	102		5.0	0.65
127-18-4	Tetrachloroethene	100		5.0	0.75
108-88-3	Toluene	99.9		5.0	0.70
156-60-5	trans-1,2-Dichloroethene	97.7		5.0	0.95
10061-02-6	trans-1,3-Dichloropropene	98.3		5.0	3.4
71-55-6	1,1,1-Trichloroethane	98.5		5.0	1.2
79-01-6	Trichloroethene	93.2		5.0	0.50
75-01-4	Vinyl chloride	335		2.5	1.0
1330-20-7	Xylenes, Total	198		10	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Client Sample ID: Lab Sample ID: 240-137031-C-14 MSD

Matrix: Water Lab File ID: UXM31396.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2020 13:32

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 453487 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31396.D
Lims ID: 240-137031-C-14 MSD
Client ID:
Sample Type: MSD
Inject. Date: 29-Sep-2020 13:32:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 13:52:39 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 13:53:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	854014	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	669513	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	393863	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	95	211340	24.9	22.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.596	0.000	98	240691	24.9	23.9	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	93	870640	24.9	24.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	327413	24.9	25.2	
10 Chloromethane	50	1.908	1.908	0.000	99	241974	20.0	18.0	
11 Vinyl chloride	62	2.027	2.027	0.000	98	968449	20.0	67.0	
13 Bromomethane	94	2.371	2.371	0.000	91	114187	20.0	12.3	
14 Chloroethane	64	2.489	2.489	0.000	99	145187	20.0	18.9	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	172443	20.0	19.7	
21 Acetone	58	3.308	3.308	0.000	100	30602	40.0	40.1	
24 Carbon disulfide	76	3.474	3.474	0.000	99	540379	20.0	19.1	
28 Methylene Chloride	84	3.735	3.735	0.000	89	192977	20.0	18.6	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	96	202395	20.0	19.5	
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	320786	20.0	20.0	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	41570	40.0	41.1	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	81	215051	20.0	19.5	
47 Chloroform	83	5.158	5.158	0.000	93	321138	20.0	19.4	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	287634	20.0	19.7	
51 Carbon tetrachloride	117	5.442	5.442	0.000	89	252328	20.0	19.5	
54 Benzene	78	5.620	5.620	0.000	96	782506	20.0	19.9	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	240958	20.0	20.3	
58 Trichloroethene	130	6.177	6.177	0.000	95	217131	20.0	18.6	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	185209	20.0	20.8	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	234879	20.0	19.9	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	289347	20.0	19.9	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	96	263996	40.0	44.0	
70 Toluene	91	7.316	7.316	0.000	99	838520	20.0	20.0	
71 trans-1,3-Dichloropropene	75	7.517	7.517	0.000	92	257295	20.0	19.7	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	164402	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
75 Tetrachloroethene	164	7.778	7.778	0.000	97	189234	20.0	20.1	
76 2-Hexanone	43	7.873	7.873	0.000	95	182983	40.0	43.8	
78 Chlorodibromomethane	129	8.051	8.051	0.000	90	176230	20.0	19.7	
82 Chlorobenzene	112	8.620	8.620	0.000	96	556406	20.0	19.3	
84 Ethylbenzene	106	8.703	8.703	0.000	98	307381	20.0	19.6	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	379622	20.0	19.8	
86 o-Xylene	106	9.201	9.190	0.011	96	362730	20.0	19.8	
87 Styrene	104	9.213	9.213	0.000	95	607162	20.0	20.1	
88 Bromoform	173	9.391	9.403	-0.012	97	114420	20.0	18.8	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	94	204282	20.0	20.3	
S 133 Xylenes, Total	106				0		40.0	39.5	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00367	Amount Added:	16.00	Units: uL	
vmfasaw_00345	Amount Added:	16.00	Units: uL	
vmfasgw_00378	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00181	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.49	Units: uL	Run Reagent

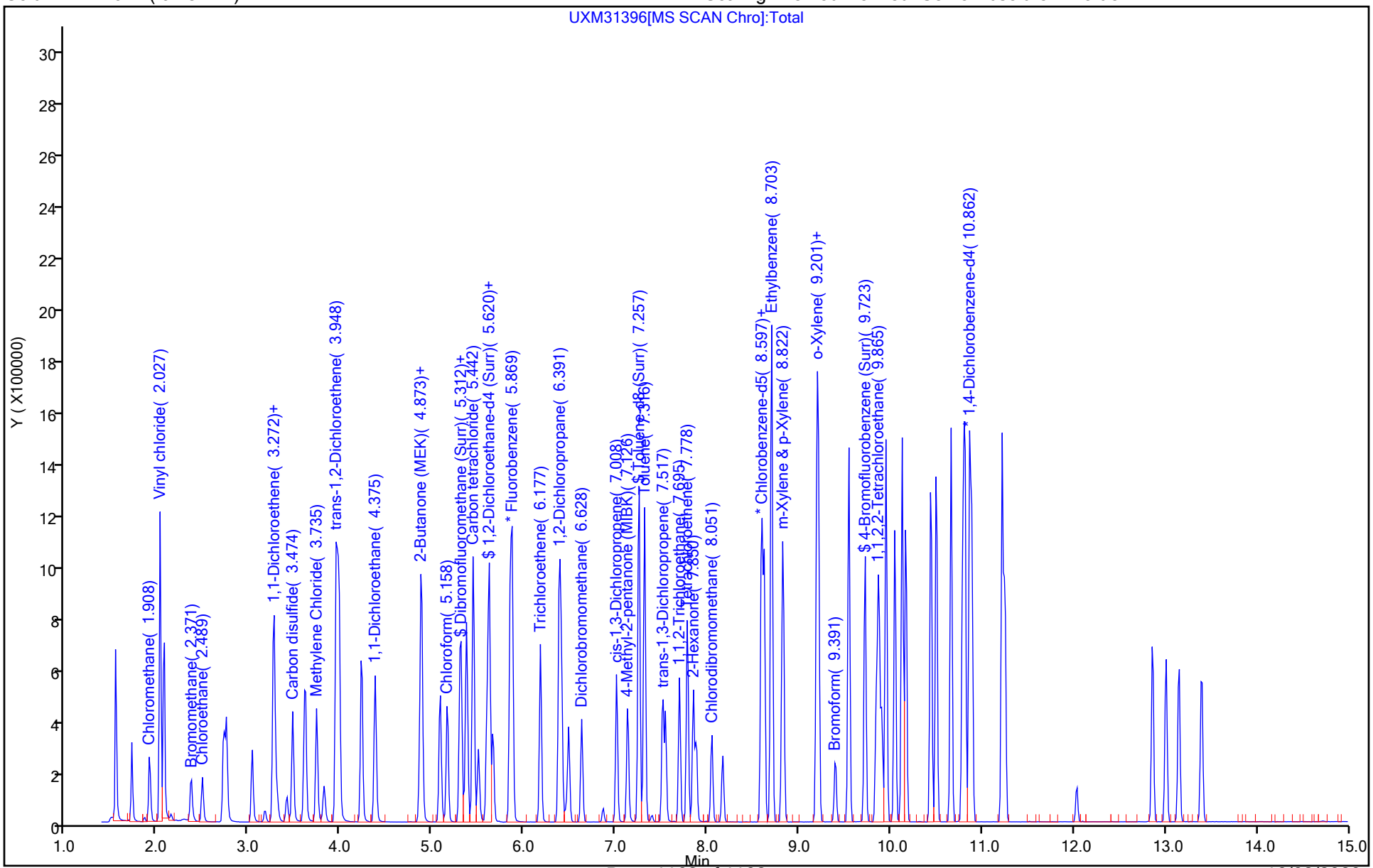
Report Date: 29-Sep-2020 13:53:14 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31396.D

Injection Date:	29-Sep-2020 13:32:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-137031-C-14 MSD			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	13
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\UXM31396.D
Lims ID: 240-137031-C-14 MSD
Client ID:
Sample Type: MSD
Inject. Date: 29-Sep-2020 13:32:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200929-102406.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 29-Sep-2020 13:52:39 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: bosworthh Date: 29-Sep-2020 13:53:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	22.7	91.11
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	23.9	95.85
$ 6 Toluene-d8 (Surr)	24.9	24.2	97.05
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.2	101.12

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Start Date: 04/30/2019 13:47

Analysis Batch Number: 378870 End Date: 04/30/2019 21:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-378870/1		04/30/2019 13:47	1	BFB4108.D	DB-624 0.18(mm)
STD8260 240-378870/8 IC		04/30/2019 14:10	1	U1269795.D	DB-624 0.18(mm)
STD8260 240-378870/9 IC		04/30/2019 14:33	1	U1269796.D	DB-624 0.18(mm)
STD8260 240-378870/10 IC		04/30/2019 14:55	1	U1269797.D	DB-624 0.18(mm)
ICIS 240-378870/11		04/30/2019 15:17	1	U1269798.D	DB-624 0.18(mm)
STD8260 240-378870/12 IC		04/30/2019 15:39	1	U1269799.D	DB-624 0.18(mm)
STD8260 240-378870/13 IC		04/30/2019 16:02	1	U1269800.D	DB-624 0.18(mm)
STD8260 240-378870/14 IC		04/30/2019 16:24	1	U1269801.D	DB-624 0.18(mm)
ICV 240-378870/15		04/30/2019 16:46	1		DB-624 0.18(mm)
MRL 240-378870/16 MDLV		04/30/2019 17:09	1		DB-624 0.18(mm)
STDA9 240-378870/18 IC		04/30/2019 17:52	1	U1269805.D	DB-624 0.18(mm)
STDA9 240-378870/19 IC		04/30/2019 18:14	1	U1269806a.D	DB-624 0.18(mm)
STDA9 240-378870/20 IC		04/30/2019 18:37	1	U1269807.D	DB-624 0.18(mm)
STDA9 240-378870/21 IC		04/30/2019 18:59	1	U1269808.D	DB-624 0.18(mm)
STDA9 240-378870/22 IC		04/30/2019 19:21	1	U1269809.D	DB-624 0.18(mm)
STDA9 240-378870/23 IC		04/30/2019 19:43	1	U1269810.D	DB-624 0.18(mm)
STDA9 240-378870/24 IC		04/30/2019 20:05	1	U1269811.D	DB-624 0.18(mm)
ICV 240-378870/25		04/30/2019 20:27	1	U1269812.D	DB-624 0.18(mm)
MRL 240-378870/26 MDLV		04/30/2019 20:50	1		DB-624 0.18(mm)
ZZZZZ		04/30/2019 21:12	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Start Date: 07/16/2020 16:09

Analysis Batch Number: 442963 End Date: 07/16/2020 21:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-442963/1		07/16/2020 16:09	1	BFB4436a.D	DB-624 0.18(mm)
STD8260 240-442963/9 IC		07/16/2020 17:43	1	U1279113.D	DB-624 0.18(mm)
STD8260 240-442963/10 IC		07/16/2020 18:05	1	U1279114.D	DB-624 0.18(mm)
STD8260 240-442963/11 IC		07/16/2020 18:27	1	U1279115.D	DB-624 0.18(mm)
STD8260 240-442963/12 IC		07/16/2020 18:50	1	U1279116.D	DB-624 0.18(mm)
ICIS 240-442963/13		07/16/2020 19:12	1	U1279117.D	DB-624 0.18(mm)
STD8260 240-442963/14 IC		07/16/2020 19:35	1	U1279118.D	DB-624 0.18(mm)
STD8260 240-442963/15 IC		07/16/2020 19:57	1	U1279119.D	DB-624 0.18(mm)
STD8260 240-442963/16 IC		07/16/2020 20:20	1	U1279120.D	DB-624 0.18(mm)
ICV 240-442963/17		07/16/2020 20:43	1	U1279121.D	DB-624 0.18(mm)
MDLV 240-442963/18		07/16/2020 21:05	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX16 Start Date: 09/08/2020 11:23

Analysis Batch Number: 450378 End Date: 09/08/2020 18:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-450378/1		09/08/2020 11:23	1	BFB6489.D	DB-624 0.18(mm)
STD8260 240-450378/9 IC		09/08/2020 12:22	1	UXM31022.D	DB-624 0.18(mm)
STD8260 240-450378/10 IC		09/08/2020 12:47	1	UXM31023.D	DB-624 0.18(mm)
STD8260 240-450378/11 IC		09/08/2020 13:12	1	UXM31024.D	DB-624 0.18(mm)
ICIS 240-450378/12		09/08/2020 13:36	1	UXM31025.D	DB-624 0.18(mm)
STD8260 240-450378/13 IC		09/08/2020 14:01	1	UXM31026.D	DB-624 0.18(mm)
STD8260 240-450378/14 IC		09/08/2020 14:26	1	UXM31027.D	DB-624 0.18(mm)
STD8260 240-450378/15 IC		09/08/2020 14:50	1	UXM31028.D	DB-624 0.18(mm)
ICV 240-450378/16		09/08/2020 15:15	1	UXM31029.D	DB-624 0.18(mm)
STDA9 240-450378/19 IC		09/08/2020 16:30	1	UXM31032.D	DB-624 0.18(mm)
STDA9 240-450378/20 IC		09/08/2020 16:55	1	UXM31033.D	DB-624 0.18(mm)
STDA9 240-450378/21 IC		09/08/2020 17:19	1	UXM31034.D	DB-624 0.18(mm)
STDA9 240-450378/22 IC		09/08/2020 17:44	1	UXM31035.D	DB-624 0.18(mm)
STDA9 240-450378/23 IC		09/08/2020 18:09	1	UXM31036.D	DB-624 0.18(mm)
STDA9 240-450378/24 IC		09/08/2020 18:33	1	UXM31037.D	DB-624 0.18(mm)
ICV 240-450378/25		09/08/2020 18:58	1	UXM31038.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX16 Start Date: 09/29/2020 09:24

Analysis Batch Number: 453487 End Date: 09/29/2020 20:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-453487/1		09/29/2020 09:24	1	BFB6506.D	DB-624 0.18(mm)
CCV 240-453487/4		09/29/2020 09:47	1	UXM31387.D	DB-624 0.18(mm)
CCVIS 240-453487/5		09/29/2020 10:12	1	UXM31388.D	DB-624 0.18(mm)
LCS 240-453487/6		09/29/2020 10:37	1	UXM31389.D	DB-624 0.18(mm)
MRL 240-453487/7 MDLV		09/29/2020 11:01	1		DB-624 0.18(mm)
MRL 240-453487/8 MDLV		09/29/2020 11:26	1		DB-624 0.18(mm)
MB 240-453487/9		09/29/2020 11:51	1	UXM31392.D	DB-624 0.18(mm)
ZZZZZ		09/29/2020 12:18	5		DB-624 0.18(mm)
ZZZZZ		09/29/2020 12:42	1		DB-624 0.18(mm)
240-137031-C-14 MS		09/29/2020 13:07	5	UXM31395.D	DB-624 0.18(mm)
240-137031-C-14 MSD		09/29/2020 13:32	5	UXM31396.D	DB-624 0.18(mm)
ZZZZZ		09/29/2020 13:56	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 14:21	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 14:46	4		DB-624 0.18(mm)
ZZZZZ		09/29/2020 15:11	50		DB-624 0.18(mm)
ZZZZZ		09/29/2020 15:36	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 16:00	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 16:25	1		DB-624 0.18(mm)
ZZZZZ		09/29/2020 16:50	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 17:14	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 17:39	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 18:04	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 18:29	2		DB-624 0.18(mm)
ZZZZZ		09/29/2020 18:53	2		DB-624 0.18(mm)
240-136984-1	MSA-SW37A-092220	09/29/2020 19:18	1	UXM31410.D	DB-624 0.18(mm)
240-136984-2	MSA-SW37B-092220	09/29/2020 19:43	1	UXM31411.D	DB-624 0.18(mm)
240-136984-3	MSA-SW37C-092220	09/29/2020 20:08	1	UXM31412.D	DB-624 0.18(mm)
ZZZZZ		09/29/2020 20:33	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Start Date: 09/29/2020 17:06

Analysis Batch Number: 453571 End Date: 09/30/2020 02:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-453571/1		09/29/2020 17:06	1	BFB4496.D	DB-624 0.18(mm)
CCV 240-453571/3		09/29/2020 17:28	1	U1280876a.D	DB-624 0.18(mm)
CCVIS 240-453571/4		09/29/2020 17:51	1	U1280877.D	DB-624 0.18(mm)
LCS 240-453571/5		09/29/2020 18:13	1	U1280878.D	DB-624 0.18(mm)
MRL 240-453571/6 MDLV		09/29/2020 18:36	1		DB-624 0.18(mm)
MB 240-453571/8		09/29/2020 19:21	1	U1280881a.D	DB-624 0.18(mm)
240-136984-14	MSA-SW41B-092220	09/29/2020 19:43	1	U1280882a.D	DB-624 0.18(mm)
240-136984-15	MSA-SW41C-092220	09/29/2020 20:06	1	U1280883.D	DB-624 0.18(mm)
240-136984-16	MSA-SW41D-092220	09/29/2020 20:29	1	U1280884a.D	DB-624 0.18(mm)
240-136984-17	MSA-SW42A-092220	09/29/2020 20:51	1	U1280885.D	DB-624 0.18(mm)
240-136984-18	MSA-SW42B-092220	09/29/2020 21:14	1	U1280886.D	DB-624 0.18(mm)
240-136984-19	MSA-SW42C-092220	09/29/2020 21:36	1	U1280887.D	DB-624 0.18(mm)
240-136984-20	MSA-SW42D-092220	09/29/2020 21:58	1	U1280888a.D	DB-624 0.18(mm)
240-136984-21	MSA-SW43A-092220	09/29/2020 22:20	1	U1280889.D	DB-624 0.18(mm)
240-136984-22	MSA-SW43B-092220	09/29/2020 22:43	1	U1280890.D	DB-624 0.18(mm)
240-136984-23	MSA-SW43C-092220	09/29/2020 23:06	1	U1280891.D	DB-624 0.18(mm)
240-136984-24	MSA-SW43D-092220	09/29/2020 23:28	1	U1280892a.D	DB-624 0.18(mm)
240-136984-25	MSA-SW44A-092220	09/29/2020 23:50	1	U1280893.D	DB-624 0.18(mm)
240-136984-26	MSA-SW44B-092220	09/30/2020 00:13	1	U1280894.D	DB-624 0.18(mm)
240-136984-27	MSA-SW44C-092220	09/30/2020 00:36	1	U1280895.D	DB-624 0.18(mm)
240-136984-28	MSA-SW44D-092220	09/30/2020 00:58	1	U1280896a.D	DB-624 0.18(mm)
240-136984-29	TB-092220	09/30/2020 01:20	1	U1280897.D	DB-624 0.18(mm)
240-136984-30	MSA-SW46A-092220	09/30/2020 01:43	1	U1280898.D	DB-624 0.18(mm)
240-136984-31	MSA-SW47A-092220	09/30/2020 02:05	1	U1280899.D	DB-624 0.18(mm)
240-136984-32	MSA-SW48A-092220	09/30/2020 02:27	1	U1280900.D	DB-624 0.18(mm)
240-136984-33	MSA-SW49A-092220	09/30/2020 02:50	1	U1280901.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Instrument ID: A3UX12 Start Date: 09/30/2020 16:06

Analysis Batch Number: 453771 End Date: 10/01/2020 03:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-453771/1		09/30/2020 16:06	1	BFB4497.D	DB-624 0.18(mm)
CCV 240-453771/3		09/30/2020 16:29	1	U1280902a.D	DB-624 0.18(mm)
CCVIS 240-453771/4		09/30/2020 16:51	1	U1280903.D	DB-624 0.18(mm)
LCS 240-453771/5		09/30/2020 17:14	1	U1280904a.D	DB-624 0.18(mm)
MRL 240-453771/6 MDLV		09/30/2020 17:36	1		DB-624 0.18(mm)
MRL 240-453771/7 MDLV		09/30/2020 17:59	1		DB-624 0.18(mm)
MB 240-453771/8		09/30/2020 18:21	1	U1280907.D	DB-624 0.18(mm)
240-136984-4	MSA-SW37D-092220	09/30/2020 23:58	1	U1280922b.D	DB-624 0.18(mm)
240-136984-5	MSA-SW38A-092220	10/01/2020 00:21	1	U1280923.D	DB-624 0.18(mm)
240-136984-6	MSA-SW38B-092220	10/01/2020 00:44	1	U1280924b.D	DB-624 0.18(mm)
240-136984-7	MSA-SW38C-092220	10/01/2020 01:06	1	U1280925.D	DB-624 0.18(mm)
240-136984-8	MSA-SW38D-092220	10/01/2020 01:29	1	U1280926b.D	DB-624 0.18(mm)
240-136984-9	MSA-SW40A-092220	10/01/2020 01:51	1	U1280927.D	DB-624 0.18(mm)
240-136984-10	MSA-SW40B-092220	10/01/2020 02:14	1	U1280928b.D	DB-624 0.18(mm)
240-136984-11	MSA-SW40C-092220	10/01/2020 02:37	1	U1280929.D	DB-624 0.18(mm)
240-136984-12	MSA-SW40D-092220	10/01/2020 02:59	1	U1280930b.D	DB-624 0.18(mm)
240-136984-13	MSA-SW41A-092220	10/01/2020 03:22	1	U1280931.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 378870 Batch Start Date: 04/30/19 13:47 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00003	vm50ss 00362	vm50ss_stk 00080	vmarolistdw 00294
BFB 240-378870/1		8260C		5 mL	5 mL				
STD8260 240-378870/8 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-378870/9 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-378870/10 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-378870/11		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-378870/12 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-378870/13 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-378870/14 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
STDA9 240-378870/18 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/19 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-378870/24 IC		8260C		5 mL	5 mL	2 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 378870 Batch Start Date: 04/30/19 13:47 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00003	vm50ss 00362	vm50ss_stk 00080	vmarolistdw 00294
ICV 240-378870/25		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00021	VMFASA9W 00228	vmra9w 00295	vmrgas 00291	vmrprimw 00331	
BFB 240-378870/1		8260C		1 uL					
STD8260 240-378870/8 IC		8260C					64 uL	64 uL	
STD8260 240-378870/9 IC		8260C					48 uL	48 uL	
STD8260 240-378870/10 IC		8260C					32 uL	32 uL	
ICIS 240-378870/11		8260C					16 uL	16 uL	
STD8260 240-378870/12 IC		8260C					8 uL	8 uL	
STD8260 240-378870/13 IC		8260C					0.8 uL	0.8 uL	
STD8260 240-378870/14 IC		8260C					0.4 uL	0.4 uL	
STDA9 240-378870/18 IC		8260C				64 uL			
STDA9 240-378870/19 IC		8260C				48 uL			
STDA9 240-378870/20 IC		8260C				32 uL			
STDA9 240-378870/21 IC		8260C				16 uL			
STDA9 240-378870/22 IC		8260C				8 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 378870 Batch Start Date: 04/30/19 13:47 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00021	VMFASA9W 00228	vmra9w 00295	vmrgas 00291	vmrprimw 00331	
STDA9 240-378870/23 IC		8260C				0.8 uL			
STDA9 240-378870/24 IC		8260C				0.4 uL			
ICV 240-378870/25		8260C			16 uL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 442963 Batch Start Date: 07/16/20 16:09 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00006	vm50ss 00410	vm50ss_stk 00085	vmarolistdw 00352
BFB 240-442963/1		8260C		5 mL	5 mL				
STD8260 240-442963/9 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
STD8260 240-442963/10 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-442963/11 IC		8260C		5 mL	5 mL	2 uL	4 uL		4 uL
STD8260 240-442963/12 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
ICIS 240-442963/13		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-442963/14 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
STD8260 240-442963/15 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-442963/16 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
ICV 240-442963/17		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00336	vmfasgw 00367	vmfaspw 00358	VMRGAS 00347	vmrprimw 00394
BFB 240-442963/1		8260C		1 uL					
STD8260 240-442963/9 IC		8260C						0.4 uL	0.4 uL
STD8260 240-442963/10 IC		8260C						0.8 uL	0.8 uL
STD8260 240-442963/11 IC		8260C						4 uL	4 uL
STD8260 240-442963/12 IC		8260C						8 uL	8 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 442963 Batch Start Date: 07/16/20 16:09 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00336	vmfasgw 00367	vmfaspw 00358	VMRGAS 00347	vmrprimw 00394
ICIS 240-442963/13		8260C						16 uL	16 uL
STD8260 240-442963/14 IC		8260C						32 uL	32 uL
STD8260 240-442963/15 IC		8260C						48 uL	48 uL
STD8260 240-442963/16 IC		8260C						64 uL	64 uL
ICV 240-442963/17		8260C			16 uL	16 uL	16 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00007	vm50ss 00417	vm50ss_stk 00085	vmarolistdw 00359
BFB 240-450378/1		8260C		5 mL	5 mL				
STD8260 240-450378/9 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-450378/10 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-450378/11 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-450378/12		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-450378/13 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-450378/14 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-450378/15 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-450378/16		8260C		5 mL	5 mL	2 uL		2 uL	
STDA9 240-450378/19 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/24 IC		8260C		5 mL	5 mL	2 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00007	vm50ss 00417	vm50ss_stk 00085	vmarolistdw 00359
ICV 240-450378/25		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	VMFASA9W 00290	vmfasaw 00342	vmfasgw 00375	vmfaspw 00365	vmra9w 00359
BFB 240-450378/1		8260C		1 uL					
STD8260 240-450378/9 IC		8260C							
STD8260 240-450378/10 IC		8260C							
STD8260 240-450378/11 IC		8260C							
ICIS 240-450378/12		8260C							
STD8260 240-450378/13 IC		8260C							
STD8260 240-450378/14 IC		8260C							
STD8260 240-450378/15 IC		8260C							
ICV 240-450378/16		8260C				16 uL	16 uL	16 uL	
STDA9 240-450378/19 IC		8260C							64 uL
STDA9 240-450378/20 IC		8260C							32 uL
STDA9 240-450378/21 IC		8260C							16 uL
STDA9 240-450378/22 IC		8260C							8 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	VMFASA9W 00290	vmfasaw 00342	vmfasgw 00375	vmfaspw 00365	vmra9w 00359
STDA9 240-450378/23 IC		8260C							0.8 uL
STDA9 240-450378/24 IC		8260C							0.4 uL
ICV 240-450378/25		8260C			16 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00353	vmrprimw 00402				
BFB 240-450378/1		8260C							
STD8260 240-450378/9 IC		8260C		64 uL	64 uL				
STD8260 240-450378/10 IC		8260C		48 uL	48 uL				
STD8260 240-450378/11 IC		8260C		32 uL	32 uL				
ICIS 240-450378/12		8260C		16 uL	16 uL				
STD8260 240-450378/13 IC		8260C		8 uL	8 uL				
STD8260 240-450378/14 IC		8260C		0.8 uL	0.8 uL				
STD8260 240-450378/15 IC		8260C		0.4 uL	0.4 uL				
ICV 240-450378/16		8260C							
STDA9 240-450378/19 IC		8260C							
STDA9 240-450378/20 IC		8260C							
STDA9 240-450378/21 IC		8260C							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00353	vmrprimw 00402				
STDA9 240-450378/22 IC		8260C							
STDA9 240-450378/23 IC		8260C							
STDA9 240-450378/24 IC		8260C							
ICV 240-450378/25		8260C							

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453487 Batch Start Date: 09/29/20 09:24 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00007	vm50ss_stk 00085	vmarolistdw 00362
BFB 240-453487/1		8260C		5 mL	5 mL				
CCV 240-453487/4		8260C		5 mL	5 mL		2 uL		
CCVIS 240-453487/5		8260C		5 mL	5 mL		2 uL	2.492 uL	16 uL
LCS 240-453487/6		8260C		5 mL	5 mL		2 uL	2.492 uL	
MB 240-453487/9		8260C		5 mL	5 mL		2 uL	2.492 uL	
240-137031-C-14 MS		8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-137031-C-14 MSD		8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-136984-B-1	MSA-SW37A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-136984-B-2	MSA-SW37B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-136984-B-3	MSA-SW37C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00367	vmra9w 00362	vmrgas 00356
BFB 240-453487/1		8260C		1 uL					
CCV 240-453487/4		8260C						16 uL	
CCVIS 240-453487/5		8260C							16 uL
LCS 240-453487/6		8260C			16 uL	16 uL	16 uL		
MB 240-453487/9		8260C							
240-137031-C-14 MS		8260C	T		16 uL	16 uL	16 uL		
240-137031-C-14 MSD		8260C	T		16 uL	16 uL	16 uL		
240-136984-B-1	MSA-SW37A-092220	8260C	T						
240-136984-B-2	MSA-SW37B-092220	8260C	T						
240-136984-B-3	MSA-SW37C-092220	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453487 Batch Start Date: 09/29/20 09:24 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
BFB 240-453487/1		8260C							
CCV 240-453487/4		8260C							
CCVIS 240-453487/5		8260C		16 uL					
LCS 240-453487/6		8260C							
MB 240-453487/9		8260C							
240-137031-C-14 MS		8260C	T						
240-137031-C-14 MSD		8260C	T						
240-136984-B-1	MSA-SW37A-092220	8260C	T						
240-136984-B-2	MSA-SW37B-092220	8260C	T						
240-136984-B-3	MSA-SW37C-092220	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453571 Batch Start Date: 09/29/20 17:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00007	vm50ss_stk 00085	vmarolistdw 00362
BFB 240-453571/1		8260C		5 mL	5 mL				
CCV 240-453571/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-453571/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-453571/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-453571/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-136984-B-14	MSA-SW41B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-15	MSA-SW41C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-16	MSA-SW41D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-17	MSA-SW42A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-18	MSA-SW42B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-19	MSA-SW42C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-20	MSA-SW42D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-21	MSA-SW43A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-22	MSA-SW43B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-23	MSA-SW43C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-24	MSA-SW43D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-C-25	MSA-SW44A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-26	MSA-SW44B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-27	MSA-SW44C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-28	MSA-SW44D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-29	TB-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-30	MSA-SW46A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-31	MSA-SW47A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-32	MSA-SW48A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-33	MSA-SW49A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00367	vmra9w 00362	vmrgas 00356
BFB 240-453571/1		8260C		1 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453571 Batch Start Date: 09/29/20 17:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00367	vmra9w 00362	vmrgas 00356
CCV 240-453571/3		8260C						16 uL	
CCVIS 240-453571/4		8260C							16 uL
LCS 240-453571/5		8260C			16 uL	16 uL	16 uL		
MB 240-453571/8		8260C							
240-136984-B-14	MSA-SW41B-092220	8260C	T						
240-136984-B-15	MSA-SW41C-092220	8260C	T						
240-136984-B-16	MSA-SW41D-092220	8260C	T						
240-136984-B-17	MSA-SW42A-092220	8260C	T						
240-136984-B-18	MSA-SW42B-092220	8260C	T						
240-136984-B-19	MSA-SW42C-092220	8260C	T						
240-136984-B-20	MSA-SW42D-092220	8260C	T						
240-136984-B-21	MSA-SW43A-092220	8260C	T						
240-136984-A-22	MSA-SW43B-092220	8260C	T						
240-136984-A-23	MSA-SW43C-092220	8260C	T						
240-136984-A-24	MSA-SW43D-092220	8260C	T						
240-136984-C-25	MSA-SW44A-092220	8260C	T						
240-136984-B-26	MSA-SW44B-092220	8260C	T						
240-136984-A-27	MSA-SW44C-092220	8260C	T						
240-136984-B-28	MSA-SW44D-092220	8260C	T						
240-136984-B-29	TB-092220	8260C	T						
240-136984-B-30	MSA-SW46A-092220	8260C	T						
240-136984-A-31	MSA-SW47A-092220	8260C	T						
240-136984-A-32	MSA-SW48A-092220	8260C	T						
240-136984-A-33	MSA-SW49A-092220	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
BFB 240-453571/1		8260C							
CCV 240-453571/3		8260C							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453571 Batch Start Date: 09/29/20 17:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
CCVIS 240-453571/4		8260C		16 uL					
LCS 240-453571/5		8260C							
MB 240-453571/8		8260C							
240-136984-B-14	MSA-SW41B-092220	8260C	T						
240-136984-B-15	MSA-SW41C-092220	8260C	T						
240-136984-B-16	MSA-SW41D-092220	8260C	T						
240-136984-B-17	MSA-SW42A-092220	8260C	T						
240-136984-B-18	MSA-SW42B-092220	8260C	T						
240-136984-B-19	MSA-SW42C-092220	8260C	T						
240-136984-B-20	MSA-SW42D-092220	8260C	T						
240-136984-B-21	MSA-SW43A-092220	8260C	T						
240-136984-A-22	MSA-SW43B-092220	8260C	T						
240-136984-A-23	MSA-SW43C-092220	8260C	T						
240-136984-A-24	MSA-SW43D-092220	8260C	T						
240-136984-C-25	MSA-SW44A-092220	8260C	T						
240-136984-B-26	MSA-SW44B-092220	8260C	T						
240-136984-A-27	MSA-SW44C-092220	8260C	T						
240-136984-B-28	MSA-SW44D-092220	8260C	T						
240-136984-B-29	TB-092220	8260C	T						
240-136984-B-30	MSA-SW46A-092220	8260C	T						
240-136984-A-31	MSA-SW47A-092220	8260C	T						
240-136984-A-32	MSA-SW48A-092220	8260C	T						
240-136984-A-33	MSA-SW49A-092220	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453771 Batch Start Date: 09/30/20 16:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00007	vm50ss_stk 00085	vmarolistdw 00362
BFB 240-453771/1		8260C		5 mL	5 mL				
CCV 240-453771/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-453771/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-453771/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-453771/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-136984-B-4	MSA-SW37D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-5	MSA-SW38A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-6	MSA-SW38B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-7	MSA-SW38C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-8	MSA-SW38D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-9	MSA-SW40A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-10	MSA-SW40B-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-A-11	MSA-SW40C-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-12	MSA-SW40D-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-136984-B-13	MSA-SW41A-092220	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00368	vmra9w 00362	vmrgas 00356
BFB 240-453771/1		8260C		1 uL					
CCV 240-453771/3		8260C						16 uL	
CCVIS 240-453771/4		8260C							16 uL
LCS 240-453771/5		8260C			16 uL	16 uL	16 uL		
MB 240-453771/8		8260C							
240-136984-B-4	MSA-SW37D-092220	8260C	T						
240-136984-A-5	MSA-SW38A-092220	8260C	T						
240-136984-B-6	MSA-SW38B-092220	8260C	T						
240-136984-B-7	MSA-SW38C-092220	8260C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453771 Batch Start Date: 09/30/20 16:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	vmfasaw 00345	vmfasgw 00378	vmfaspw 00368	vmra9w 00362	vmrgas 00356
240-136984-B-8	MSA-SW38D-092220	8260C	T						
240-136984-B-9	MSA-SW40A-092220	8260C	T						
240-136984-B-10	MSA-SW40B-092220	8260C	T						
240-136984-A-11	MSA-SW40C-092220	8260C	T						
240-136984-B-12	MSA-SW40D-092220	8260C	T						
240-136984-B-13	MSA-SW41A-092220	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00405					
BFB 240-453771/1		8260C							
CCV 240-453771/3		8260C							
CCVIS 240-453771/4		8260C		16 uL					
LCS 240-453771/5		8260C							
MB 240-453771/8		8260C							
240-136984-B-4	MSA-SW37D-092220	8260C	T						
240-136984-A-5	MSA-SW38A-092220	8260C	T						
240-136984-B-6	MSA-SW38B-092220	8260C	T						
240-136984-B-7	MSA-SW38C-092220	8260C	T						
240-136984-B-8	MSA-SW38D-092220	8260C	T						
240-136984-B-9	MSA-SW40A-092220	8260C	T						
240-136984-B-10	MSA-SW40B-092220	8260C	T						
240-136984-A-11	MSA-SW40C-092220	8260C	T						
240-136984-B-12	MSA-SW40D-092220	8260C	T						
240-136984-B-13	MSA-SW41A-092220	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-136984-1

SDG No.: MSA FMC

Batch Number: 453771 Batch Start Date: 09/30/20 16:06 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

4.3152

Baltimore
#201

Chain of Custody Record

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

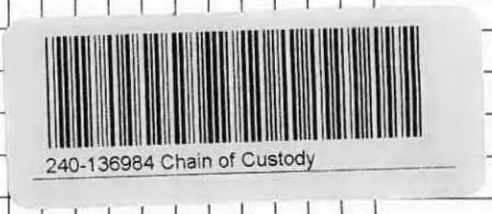
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 9/22/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	1 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09023	☐ 1 day			Sampler: J Mullis

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW37A-092220	9/22/2020	1033	SW	Water	3		x	
MSA-SW37B-092220	9/22/2020	1036	SW	Water	3		x	
MSA-SW37C-092220	9/22/2020	1039	SW	Water	3		x	
MSA-SW37D-092220	9/22/2020	1042	SW	Water	3		x	
MSA-SW38A-092220	9/22/2020	0938	SW	Water	3		x	
MSA-SW38B-092220	9/22/2020	0942	SW	Water	3		x	
MSA-SW38C-092220	9/22/2020	0945	SW	Water	3		x	
MSA-SW38D-092220	9/22/2020	0948	SW	Water	3		x	
MSA-SW40A-092220	9/22/2020	0957	SW	Water	3		x	
MSA-SW40B-092220	9/22/2020	1001	SW	Water	3		x	
MSA-SW40C-092220	9/22/2020	1006	SW	Water	3		x	
MSA-SW40D-092220	9/22/2020	1009	SW	Water	3		x	
							2	

240-136984 Chain of Custody



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Irritant* *Poison B* ☒ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Tt	09-22-20/1335	[signature]	ETA bat	9/22/20 15:35
[signature]	9/22/20 1700	ETA bat	[signature]	ETA	9-23-20 950

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

Baltimore
#201

4.3/15.2

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: ~~9/12/2020~~ 9/22/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	2 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler: J Mullis
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09023	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW41A-092220	9/22/2020	0914	SW	Water	3		x	
MSA-SW41B-092220	9/22/2020	0918	SW	Water	3		x	
MSA-SW41C-092220	9/22/2020	0922	SW	Water	3		x	
MSA-SW41D-092220	9/22/2020	0925	SW	Water	3		x	
MSA-SW42A-092220	9/22/2020	1018	SW	Water	3		x	
MSA-SW42B-092220	9/22/2020	1021	SW	Water	3		x	
MSA-SW42C-092220	9/22/2020	1025	SW	Water	3		x	
MSA-SW42D-092220	9/22/2020	1028	SW	Water	3		x	
MSA-SW43A-092220	9/22/2020	0842	SW	Water	3		x	
MSA-SW43B-092220	9/22/2020	0847	SW	Water	3		x	
MSA-SW43C-092220	9/22/2020	0852	SW	Water	3		x	
MSA-SW43D-092220	9/22/2020	0859	SW	Water	3		x	
							2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Irritant* *Poison B* ☒ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	T+	9/22/20-1335		ETA Lab	9/22/20 13:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	9/22/20 17:00	ETA Lab		ETA	9-23-20 950
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

TA

4.3/52

Baltimore #201

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: ~~8/12/2020~~ 9/22/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	3 of 3 COCs
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09023	☐ 1 day			Sampler: J Mullis

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW44A-092220	9/22/2020	0814	SW	Water	3		x	
MSA-SW44B-092220	9/22/2020	0823	SW	Water	3		x	
MSA-SW44C-092220	9/22/2020	0828	SW	Water	3		x	
MSA-SW44D-092220	9/22/2020	0837	SW	Water	3		x	
TB-092220	9/22/2020	0000	SW	Water	3		x	courier is providing trip blank.
MSA-SW46A-092220	9/22/2020	1013	SW	Water	3		x	
MSA-SW47A-092220	9/22/2020	0953	SW	Water	3		x	
MSA-SW48A-092220	9/22/2020	0929	SW	Water	3		x	
MSA-SW49A-092220	9/22/2020	0906	SW	Water	3		x	
							2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Irritant Poison B ☒ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	T+	9/22/20-1335		ETA Salt	9/22/20 15:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	T+ 17.11	ETA Salt		ETA	9-23-20 950
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 136984

Client Tetra Tech Site Name

Cooler Received on 9-23-20 Opened on 9-23-20

Cooler unpacked by: MatSnyder

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # VA Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

IR GUN #IR-11 (CF +0.9°C) Observed Cooler Temp 4.3 °C Corrected Cooler Temp. 5.2 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11. Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	Yes	(No)
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No (NA) pH Strip Lot# **HC907861**
14. Were VOAs on the COC?	(Yes)	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	(No) NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	(Yes)	No
17. Was a LL Hg or Me Hg trip blank present?	Yes	(No)

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen:

APPENDIX C—CHEMICAL-RESULTS DATA TABLE

Appendix C - Chemical Results Data Table
September 2020 Sampling Round
Frog Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW37D	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW38D	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW40D	MSA-SW41A	MSA-SW41B
SAMPLE ID	MSA-SW37A-092220	MSA-SW37B-092220	MSA-SW37C-092220	MSA-SW37D-092220	MSA-SW38A-092220	MSA-SW38B-092220	MSA-SW38C-092220	MSA-SW38D-092220	MSA-SW40A-092220	MSA-SW40B-092220	MSA-SW40C-092220	MSA-SW40D-092220	MSA-SW41A-092220	MSA-SW41B-092220
SAMPLE DATE	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922
VOLATILES (UG/L)														
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.16 J	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.18 J	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 J	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
UNKNOWN	--	--	--	--	--	--	--	--	3.5 NJ	--	--	--	--	--
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

All samples were collected on September 22, 2020.
-- - not detected
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
U - nondetect
µg/L - micrograms per liter

Appendix C - Chemical Results Data Table
September 2020 Sampling Round
Frog Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW41C	MSA-SW41D	MSA-SW42A	MSA-SW42B	MSA-SW42C	MSA-SW42D	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW43D	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D
SAMPLE ID	MSA-SW41C-092220	MSA-SW41D-092220	MSA-SW42A-092220	MSA-SW42B-092220	MSA-SW42C-092220	MSA-SW42D-092220	MSA-SW43A-092220	MSA-SW43B-092220	MSA-SW43C-092220	MSA-SW43D-092220	MSA-SW44A-092220	MSA-SW44B-092220	MSA-SW44C-092220	MSA-SW44D-092220
SAMPLE DATE	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922	20200922
VOLATILES (UG/L)														
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
UNKNOWN	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

All samples were collected on September 22, 2020.
-- - not detected
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
U - nondetect
µg/L - micrograms per liter

Appendix C - Chemical Results Data Table
September 2020 Sampling Round
Frog Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW46A	MSA-SW47A	MSA-SW48A	MSA-SW49A	QC
SAMPLE ID	MSA-SW46A-092220	MSA-SW47A-092220	MSA-SW48A-092220	MSA-SW49A-092220	TB-092220
SAMPLE DATE	20200922	20200922	20200922	20200922	20200922
VOLATILES (UG/L)					
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
UNKNOWN	--	--	--	--	--
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

All samples were collected on September 22, 2020.
-- - not detected
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
U - nondetect
µg/L - micrograms per liter