Lockheed Martin Corporation
6801 Rockledge Drive
MP CCT 246
Bethesda, MD 20817
Telephone (301) 548-2223

October 14, 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

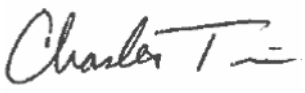
Transmittal of Technical Memorandum: June 2021 Surface Water Sampling Results for Frog Mortar Creek
Martin State Airport, 701 Wilson Point Road
Middle River, Maryland

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)
Anuradha Mohanty, MDE
Christine Kline, Lockheed Martin
Mary Morningstar, Lockheed
Martin Michael Martin, Tetra Tech
Peter Shilland, CDM Smith

cc: (via mail with CD enclosure)
Pete Lekas, EA Environmental

cc: (via shipping courier; with enclosures)
Mark Williams, MAA
Al Pollard, Martin State Airport

cc: (via Box)
Jann Richardson, Lockheed Martin

TECHNICAL MEMORANDUM: JUNE 2021 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.

October 2021

Approved by:

Revision: 0

Michael Martin, P.G.
Regional Manager

Josh Mullis
Project Scientist

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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.
TIC	tentatively identified compound
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 *2021 Surface Water Sampling Work Plan* (Tetra Tech, 2020). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on June 2, 2021.

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 may possibly originate from other 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, the 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 the DRA, 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 1997–2020, 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 *2020 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2021), 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 June 2021 data supports 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 June 2021 sampling is the second of six surface-water sampling rounds planned for 2021 and assessed water quality during the swimming season, when increased recreational use of Frog Mortar Creek is expected.

3.1 SURFACE WATER SAMPLING

3.1.1 Surface Water Sampling and Chemical Analyses

Thirty-six surface water samples were collected from Frog Mortar Creek adjacent to the DRA site on June 2, 2021. 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 and 2021 surface water sampling program, as the remaining seven transects fully cover the extent of the targeted area east of the DRA. In addition, a transect on the eastern shoreline of Frog Mortar Creek, the Edward Lane transect, has also been historically sampled. In agreement with the Maryland Department of Environment Land and Material Administration (MDE), the Edwards Lane transect (EL-01A through D) is sampled once a year in June, and accordingly, was sampled during the current (June 2021) sampling round. Sampling results from this transect have historically been nondetect and results in June 2020 were also 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 June 2021 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), SW46A through SW49A and the Edward's Lane transect (EL-01A through D) were analyzed for volatile organic compounds (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. In agreement with MDE, and because hexavalent chromium was not detected during sampling rounds conducted in 2018 or 2019, hexavalent chromium and dissolved metals were removed from the 2020 and 2021 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 (0.23 meters [0.75 feet] at 0811 hours) and after sampling (0.29 meters [0.94 feet] at 1152 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. June 2021 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 June 2, 2021 from MSA-SW37A is labeled "MSA-SW37A-060221." The trip blank is labeled with a "TB" prefix followed by the sample's six-digit submittal date (e.g., TB-060221).

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 June 2021 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.

UJ The analyte was analyzed for but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.

UR The sample result (nondetect) 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.

SECTION 4
RESULTS

4.1 SURFACE WATER DATA AND SCREENING CRITERIA

Validated chemical data from the Frog Mortar Creek surface water samples collected in June 2021 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 June 2020, March 2021, and June 2021 sampling rounds. Samples collected from transects, including inter-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]). Only two VOCs were detected at low concentrations during the June 2021 sampling round: mixed *meta*- and *para*– (*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., "SW37" refers to transect MSA-SW37), to improve readability. Likewise, although shown on tables and figures, data qualifiers such as '*J*' are not used in the text discussions to increase readability.

4.2 VOLATILE ORGANIC COMPOUND SURFACE WATER SAMPLING RESULTS

As indicated on Table 4-1 and 4-2, only two VOCs (toluene and mixed *m*+*p* xylenes) were detected during the June 2021 surface water sampling event. Toluene was detected at four locations, and *m*+*p* xylenes were detected at three locations. All detected concentrations were low (below 0.2 micrograms per liter [µg/L]) and below available chemical-specific screening criteria; note that *m*+*p* xylenes have no available surface water criteria.

A summary of chlorinated VOC (cVOC) analytical results for the June 2021 sampling round, as compared to the previous sampling round in March 2021, and to the sampling round from one year ago (June 2020) can be found in Table 4-3 and Figure 4-1.

4.2.1 Trichloroethene Results

TCE was nondetect at all sampled locations in June 2021. This observed result is consistent with the decreasing trend of TCE observed in Frog Mortar Creek since March 2019. TCE was not detected during the June 2020 sampling round and was detected at one location in March 2021 (0.71 µg/L at SW49A). TCE was also nondetect during the first five sampling events last year (i.e., March, June, July, August, and September 2020).

4.2.2 *cis*-1,2-Dichloroethene Results

cis-1,2-DCE was also nondetect at all sampled locations in June 2021, although it was detected (at concentrations well below the lowest screening level) at 16 locations in March 2021. As shown in Table 4-3 and Figure 4-1, *cis*-1,2-DCE was also nondetect at all locations one year ago in June 2020.

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 2021, as *cis*-1,2-DCE concentrations at transect SW42 decreased with increasing distance from the shore, with concentrations of 1.4 µg/L (SW42A), 0.55 µg/L (SW42B), 0.55 µg/L (SW42C), and 0.31 µg/L (SW42D).

4.2.3 Vinyl Chloride Results

VC was also nondetect at all sampled locations in June 2021 and was nondetect in June 2020 as well. VC was detected at 19 of 32 locations sampled during the March 2021 round and exceeded its lowest screening criterion (the site-specific swimming level of 0.7 µg/L) at eight locations (Table 4-3; Figure 4-1).

When detected in previous rounds, VC distributions in the higher concentration transects tended to decrease with increasing distance from the shore. This trend was observed in March 2021 as well, with VC concentrations at transect SW42 of 2.1 µg/L (SW42A), 0.88 µg/L (SW42B), 0.86 µg/L (SW42C), and 0.78 µg/L (SW42D).

4.2.4 Tentatively Identified Compound Results

A tentatively identified compounds (TIC) search was performed for the analyte chlorodifluoromethane, but it was not detected in any of the samples analyzed.

SECTION 5
SUMMARY

The Lockheed Martin Corporation June 2021 Frog Mortar Creek surface-water investigation results are summarized below:

- Thirty-six surface water samples were collected on June 2, 2021, 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 and one along the eastern shoreline (Edward's Lane transect). 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 36 samples.
- Samples collected in June 2021 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).
- Trichloroethene, *cis*-1,2-dichloroethene, and vinyl chloride were not detected in any sampled collected during the June 2021 sampling round.

- Only two volatile organic compounds, *m*+*p*-xylenes and toluene, were detected in the June 2021 sampling round. Detected concentrations for both were below available respective water quality screening criteria.
- The next surface water sampling event will occur in July 2021.

SECTION 6
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FIGURES

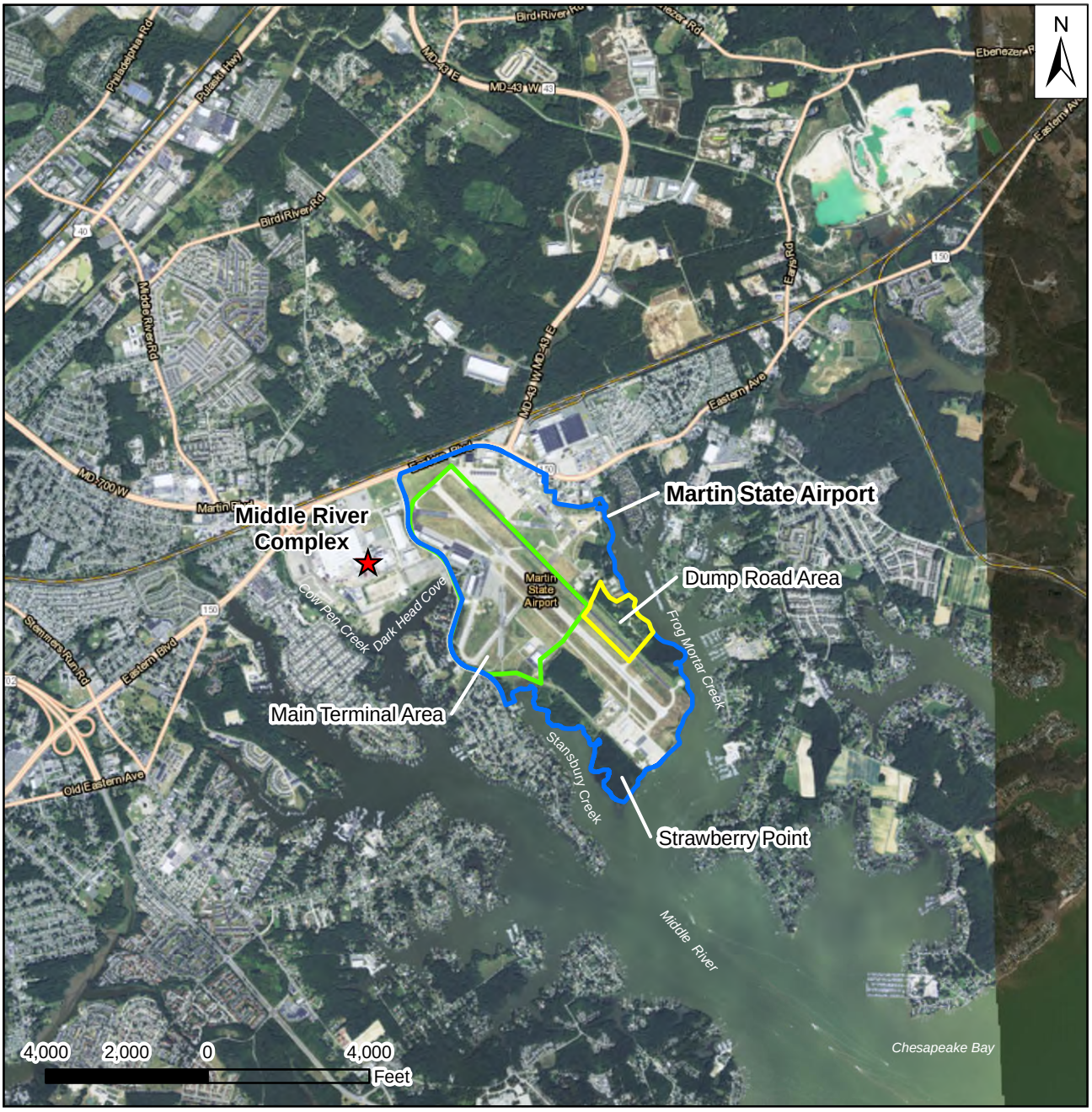
Figure 1-1 Martin State Airport, Site Location Map

Figure 2-1 Martin State Airport and Surrounding Features

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

Figure 3-1 June 2021 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 June 2020, March 2021, and June 2021, Frog Mortar Creek



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

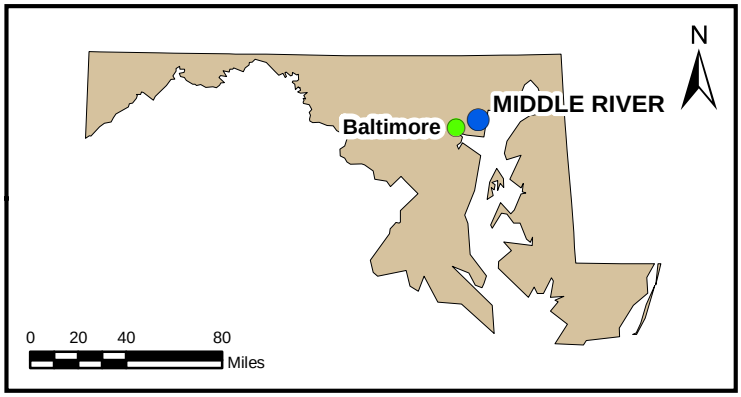


FIGURE 1-1

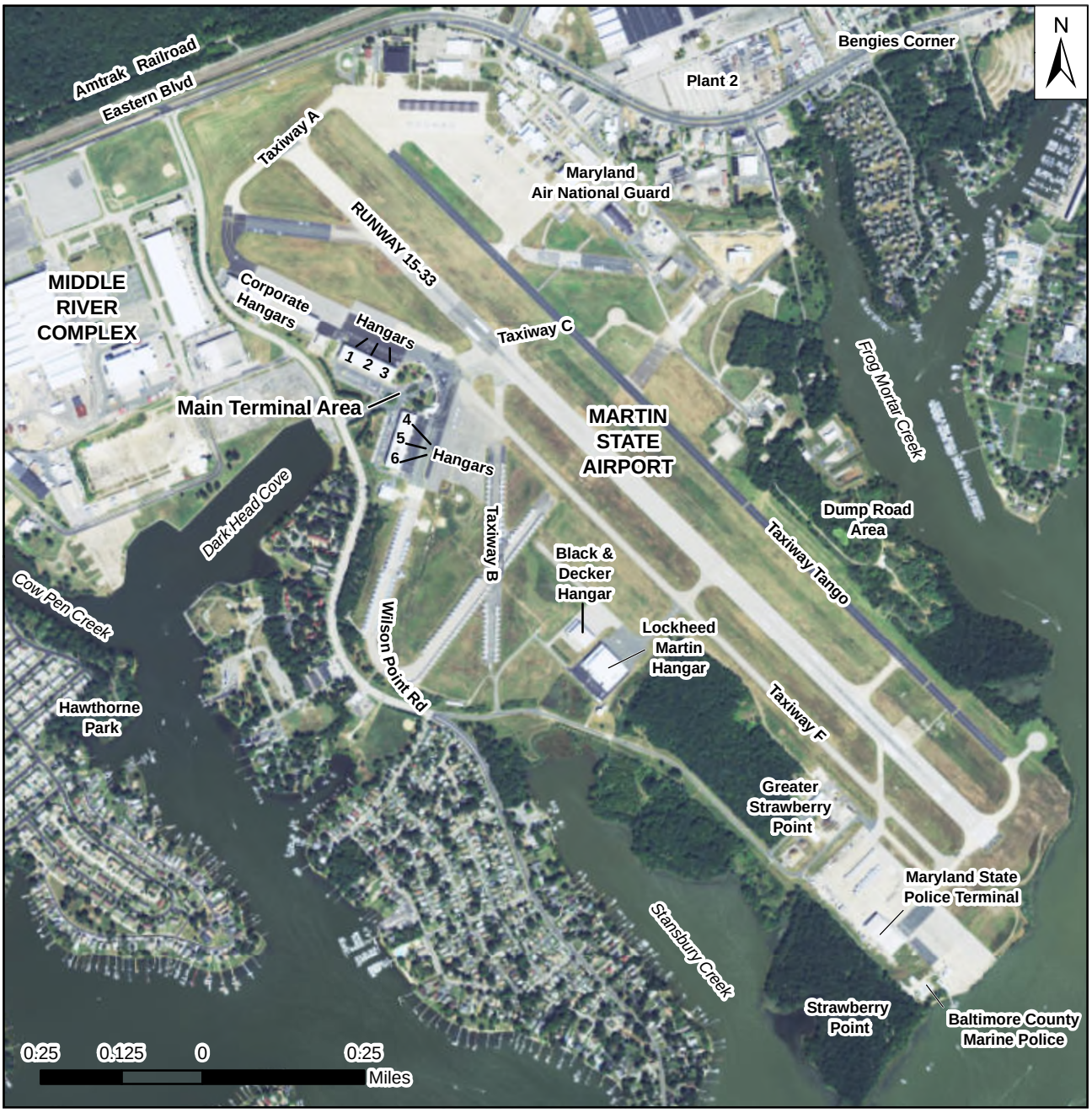
MARTIN STATE AIRPORT
SITE LOCATION MAP

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).

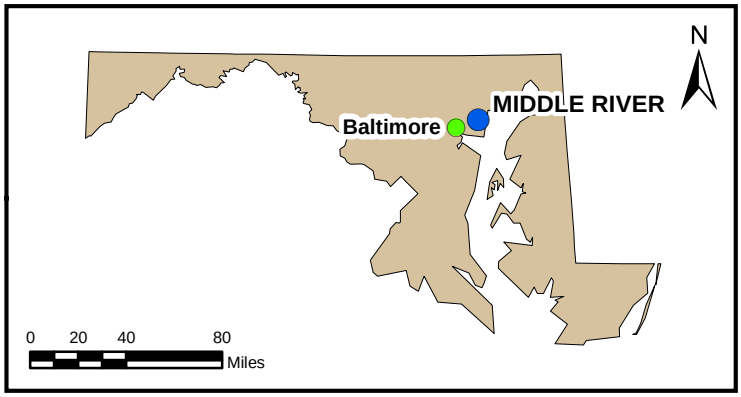


FIGURE 2-1

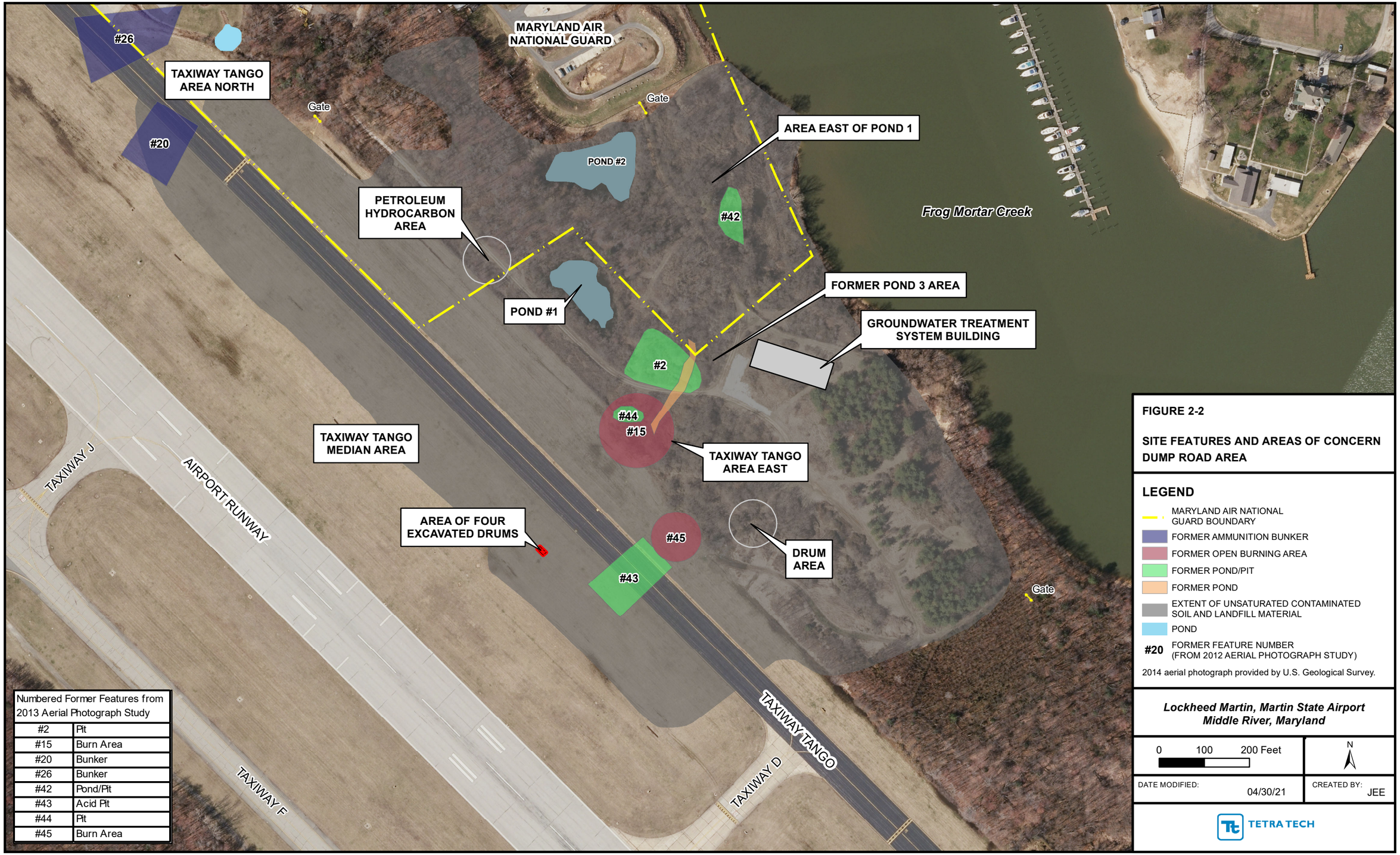
MARTIN STATE AIRPORT AND SURROUNDING FEATURES

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: 04/30/21

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\dra_study_areas_features_aug2014_v2.mxd)
04/30/21 -- PFO



FIGURE 3-1

JUNE 2021 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

Samples collected March 8, 2021.
2017 aerial photograph provided by the State of Maryland.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

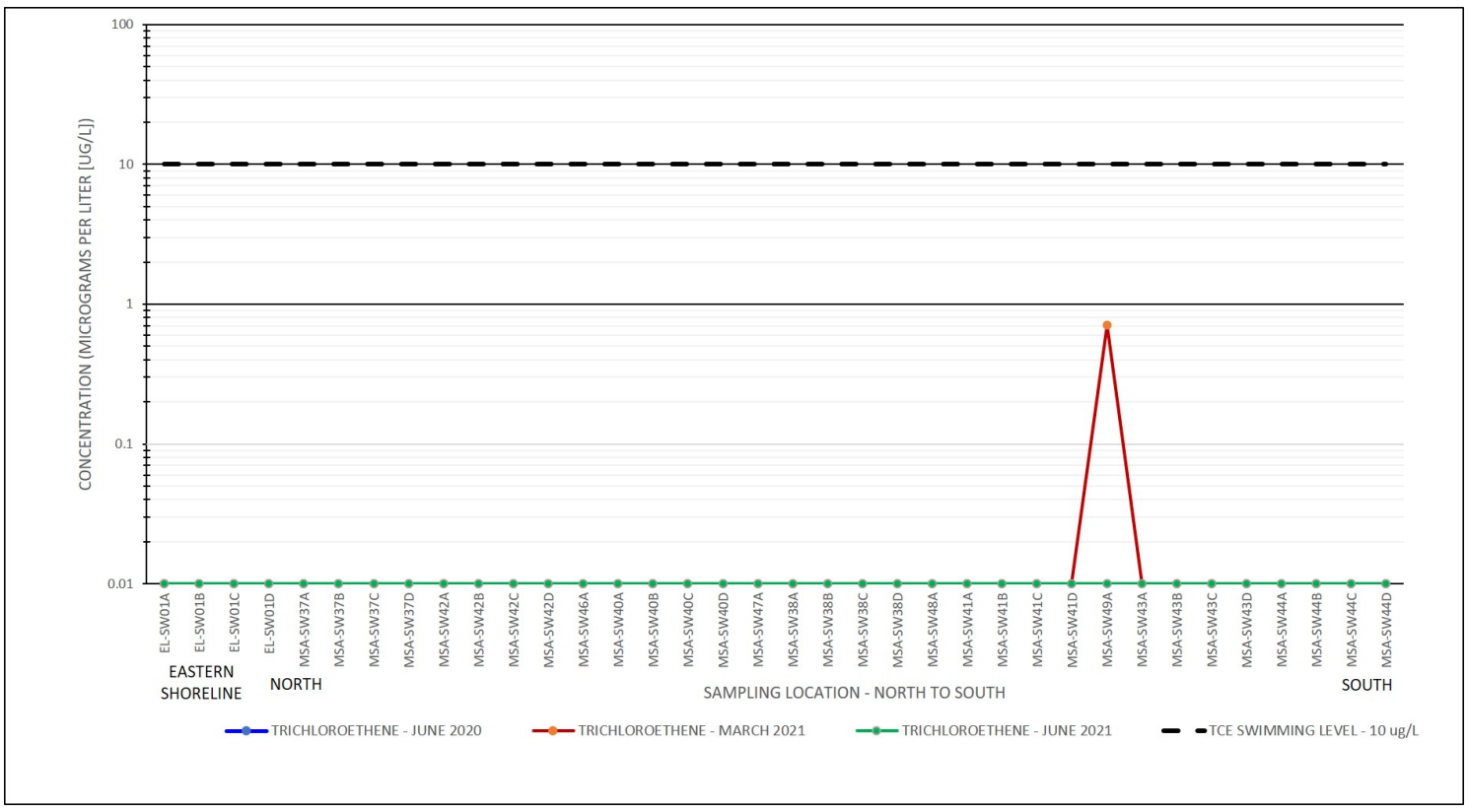
DATE MODIFIED: 07/20/21

CREATED BY: JEE

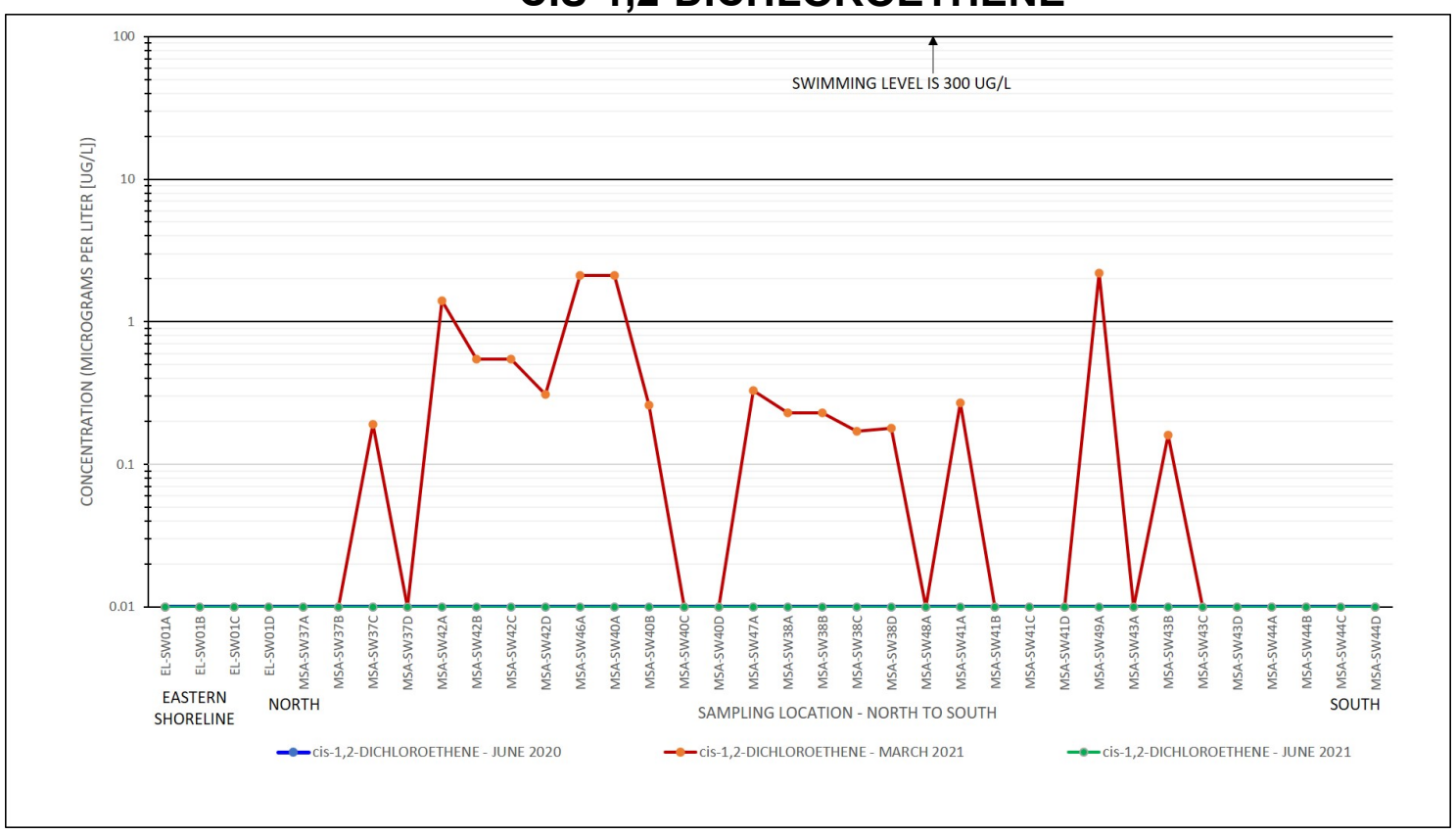
TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\fmc_sw_samplocs_202103.mxd)
05/25/21 -- JEE

TRICHLOROETHENE



CIS-1,2-DICHLOROETHENE



VINYL CHLORIDE

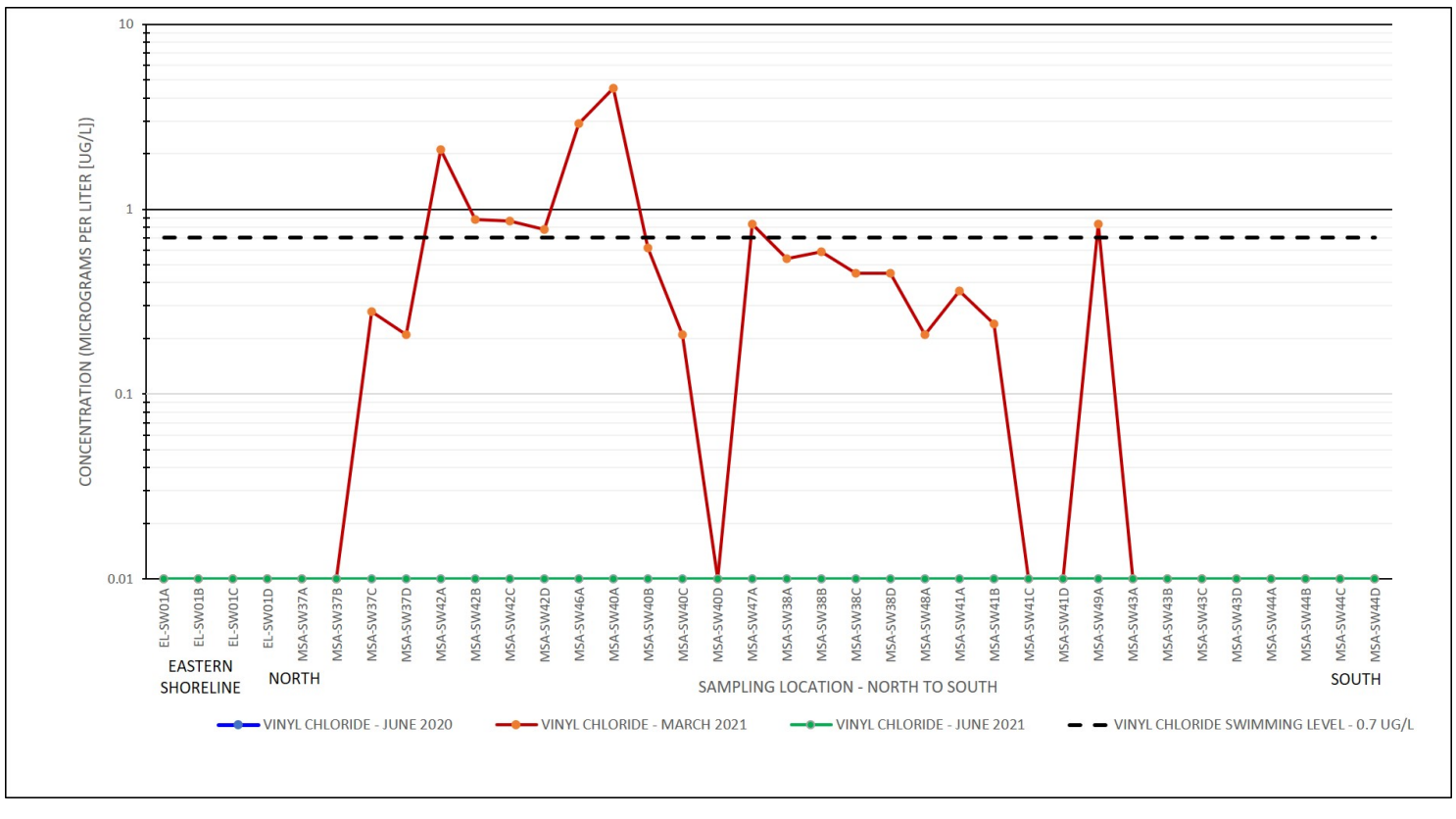


FIGURE 4-1

CONCENTRATIONS OF TRICHLOROETHENE, cis-1,2-DICHLOROETHENE AND VINYL CHLORIDE ALONG SURFACE WATER SAMPLING TRANSECTS FOR JUNE 2020, MARCH 2021, AND JUNE 2021, FROG MORTAR CREEK

Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
8/24/2021	JAM

TETRA TECH

TABLES

Table 3-1 List of Samples and Chemical Analyses for Surface Water—June 2021

Table 4-1 Statistical Summary of Analytes Detected in Surface Water Samples—June 2021

Table 4-2 Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Table 4-3 Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the June 2020, March 2021, and June 2021 Sampling Rounds

Table 3-1
List of Samples and Chemical Analyses for Surface Water—June 2021
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	✓
MSA-SW38	✓
MSA-SW40	✓
MSA-SW41	✓
MSA-SW42	✓
MSA-SW43	✓
MSA-SW44	✓
MSA-SW46	✓
MSA-SW47	✓
MSA-SW48	✓
MSA-SW49	✓
EL-SW01[2]	✓[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.

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

mL – milliliter

USEPA – United States Environmental Protection Agency

Table 4-1
Statistical Summary of Analytes Detected in Surface Water Samples—June 2021
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

June 2021 Frog Mortar Creek Surface Water Samples											
Parameter	Frequency of Detection		Minimum concentration detected	Maximum concentration detected	Location of maximum detected concentration	Sample of maximum detected concentration	Average of detected results	Average of All Results	Minimum nondetect concentration	Maximum nondetect concentration	Standard deviation
	Number	Percent									
Volatile organic compounds (µg/L)											
M+P-XYLENES	3/36	8	0.098 J	0.11 J	MSA-SW41B,42A	MSA-SW41B,42A-060221	0.106	0.0455	0.08	0.08	0.018574
TOLUENE	4/36	11	0.15 J	0.21 J	MSA-SW41B	MSA-SW41B-060221	0.175	0.08167	0.14	0.14	0.034351

All samples were collected on June 2, 2021.

For non-detects, one-half the sample quantitation limit was used as a proxy concentration.

One-half the detection limit was used for blank (B)-qualified data.

J - estimated value

µg/L - micrograms per liter

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only(1)(3)	Swimming Screening Levels[4]	EL-SW01A EL-SW01A-060221 20210602	EL-SW01B EL-SW01B-060221 20210602	EL-SW01C EL-SW01C-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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 developed for trichloroethene, cis-1,2-dichloroethene, and vinyl

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
NC - no criteria
SW - surface water
U - not detected at the method detection limit
USEPA - US Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only(1)(3)	Swimming Screening Levels[4]	EL-SW01D EL-SW01D-060221 20210602	MSA-SW37A MSA-SW37A-060221 20210602	MSA-SW37B MSA-SW37B-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.18 J	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW37C MSA-SW37C-060221 20210602	MSA-SW37D MSA-SW37D-060221 20210602	MSA-SW38A MSA-SW38A-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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µg/L - micrograms per liter

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NC - no criteria

SW - surface water

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USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW38B MSA-SW38B-060221 20210602	MSA-SW38C MSA-SW38C-060221 20210602	MSA-SW38D MSA-SW38D-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW40A MSA-SW40A-060221 20210602	MSA-SW40B MSA-SW40B-060221 20210602	MSA-SW40C MSA-SW40C-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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µg/L - micrograms per liter

BTAG - Biological Technical Assistance Group

COMAR- Code of Maryland Regulations

J - estimated concentration

NA - not available

NC - no criteria

SW - surface water

U - not detected at the method detection limit

USEPA - US Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW40D MSA-SW40D-060221 20210602	MSA-SW41A MSA-SW41A-060221 20210602	MSA-SW41B MSA-SW41B-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.11 J
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.21 J

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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

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4-Site-specific swimming screening levels developed for trichloroethene, cis-1,2-dichloroethene, and vinyl

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

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µg/L - micrograms per liter
BTAG - Biological Technical Assistance Group
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J - estimated concentration
NA - not available
NC - no criteria
SW - surface water
U - not detected at the method detection limit
USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW41C MSA-SW41C-060221 20210602	MSA-SW41D MSA-SW41D-060221 20210602	MSA-SW42A MSA-SW42A-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.11 J
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.15 J

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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

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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

NC - no criteria

SW - surface water

U - not detected at the method detection limit

USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW42B MSA-SW42B-060221 20210602	MSA-SW42C MSA-SW42C-060221 20210602	MSA-SW42D MSA-SW42D-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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 developed for trichloroethene, cis-1,2-dichloroethene, and vinyl

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

NC - no criteria

SW - surface water

U - not detected at the method detection limit

USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW43A MSA-SW43A-060221 20210602	MSA-SW43B MSA-SW43B-060221 20210602	MSA-SW43C MSA-SW43C-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.098 J	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.16 J	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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 developed for trichloroethene, cis-1,2-dichloroethene, and vinyl

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

NC - no criteria

SW - surface water

U - not detected at the method detection limit

USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW43D MSA-SW43D-060221 20210602	MSA-SW44A MSA-SW44A-060221 20210602	MSA-SW44B MSA-SW44B-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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 developed for trichloroethene, cis-1,2-dichloroethene, and vinyl

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

NC - no criteria

SW - surface water

U - not detected at the method detection limit

USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW44C MSA-SW44C-060221 20210602	MSA-SW44D MSA-SW44D-060221 20210602	MSA-SW46A MSA-SW46A-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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 developed for trichloroethene, cis-1,2-dichloroethene, and vinyl

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

NC - no criteria

SW - surface water

U - not detected at the method detection limit

USEPA - US Environmental Protection Agency

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—June 2021

Frog Mortar Creek, Martin State Airport

Middle River, Maryland

LOCATION SAMPLE ID SAMPLE DATE	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-SW47A MSA-SW47A-060221 20210602	MSA-SW48A MSA-SW48A-060221 20210602	MSA-SW49A MSA-SW49A-060221 20210602
	Acute	Chronic						
VOLATILES (UG/L)								
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U
TOLUENE	NC	NC	2	520	NC	0.14 U	0.14 U	0.14 U

All samples were collected on March 8, 2021.

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, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

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 developed for trichloroethene, cis-1,2-dichloroethene, and vinyl

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

NC - no criteria

SW - surface water

U - not detected at the method detection limit

USEPA - US Environmental Protection Agency

Table 4-3
Comparison of Primary Volatile Organic Compound Results Detected in Surface Water in the June 2020, March 2021, and June 2021 Sampling Rounds
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

Location ID	Trichloroethene concentrations (µg/L)			*cis* -1,2-Dichloroethene concentrations (µg/L)			Vinyl chloride concentrations (µg/L)		
	June 15, 2020	March 8, 2021	June 2, 2021	June 15, 2020	March 8, 2021	June 2, 2021	June 15, 2020	March 8, 2021	June 2, 2021
Average-Detections	**--**	**0.71**	**--**	**--**	**0.701875**	**--**	**--**	**0.938947**	**--**
Average-All Samples[(1)]	**0.05**	**0.070625**	**0.05**	**0.08**	**0.390937**	**0.08**	**0.1**	**0.598125**	**0.1**
Maximum Concentration	**--**	**0.71 J**	**--**	**--**	**2.2**	**--**	**--**	**4.5**	**--**
No. of Detections/Samples	**0/36**	**1/32**	**0/36**	**0/36**	**16/32**	**0/36**	**0/36**	**19/32**	**0/36**
LOCATION ID									
EL-SW01A	--	NA	--	--	NA	--	--	NA	--
EL-SW01B	--	NA	--	--	NA	--	--	NA	--
EL-SW01C	--	NA	--	--	NA	--	--	NA	--
EL-SW01D	--	NA	--	--	NA	--	--	NA	--
MSA-SW37A	--	--	--	--	--	--	--	--	--
MSA-SW37B	--	--	--	--	--	--	--	--	--
MSA-SW37C	--	--	--	--	0.19 J	--	--	0.28 J	--
MSA-SW37D	--	--	--	--	--	--	--	0.21 J	--
MSA-SW38A	--	--	--	--	0.23 J	--	--	0.54 J	--
MSA-SW38B	--	--	--	--	0.23 J	--	--	0.59 J	--
MSA-SW38C	--	--	--	--	0.17 J	--	--	0.45 J	--
MSA-SW38D	--	--	--	--	0.18 J	--	--	0.45 J	--
MSA-SW40A	--	--	--	--	2.1	--	--	**4.5**	--
MSA-SW40B	--	--	--	--	0.26 J	--	--	0.62 J	--
MSA-SW40C	--	--	--	--	--	--	--	0.21 J	--
MSA-SW40D	--	--	--	--	--	--	--	--	--
MSA-SW41A	--	--	--	--	0.27 J	--	--	0.36 J	--
MSA-SW41B	--	--	--	--	--	--	--	0.24 J	--
MSA-SW41C	--	--	--	--	--	--	--	--	--
MSA-SW41D	--	--	--	--	--	--	--	--	--
MSA-SW42A	--	--	--	--	1.4	--	--	**2.1**	--
MSA-SW42B	--	--	--	--	0.55 J	--	--	**0.88 J**	--
MSA-SW42C	--	--	--	--	0.55 J	--	--	**0.86 J**	--
MSA-SW42D	--	--	--	--	0.31 J	--	--	**0.78 J**	--
MSA-SW43A	--	--	--	--	--	--	--	--	--
MSA-SW43B	--	--	--	--	0.16 J	--	--	--	--
MSA-SW43C	--	--	--	--	--	--	--	--	--
MSA-SW43D	--	--	--	--	--	--	--	--	--
MSA-SW44A	--	--	--	--	--	--	--	--	--
MSA-SW44B	--	--	--	--	--	--	--	--	--
MSA-SW44C	--	--	--	--	--	--	--	--	--
MSA-SW44D	--	--	--	--	--	--	--	--	--
MSA-SW46A	--	--	--	--	2.1	--	--	**2.9**	--
MSA-SW47A	--	--	--	--	0.33 J	--	--	**0.83 J**	--
MSA-SW48A	--	--	--	--	--	--	--	0.21 J	--
MSA-SW49A	--	0.71 J	--	--	2.2	--	--	**0.83 J**	--

Averages were calculated using 1/2 sample quantitation limit (nondetects) and 1/2 the detection limit (B-qualified data).
Bold font indicates detected concentration exceeded its lowest screening criterion.
J - estimated value
µg/L - micrograms per liter
NA - not analyzed
-- - 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-June 2021
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
EL-SW01A	-60221	6/2/2021	817	7.07	3.09	20.38	6.90	5.89	1.61	161	0.25
EL-SW01B	-60221	6/2/2021	853	7.29	3.09	20.45	7.04	5.86	1.61	162	0.80
EL-SW01C	-60221	6/2/2021	857	7.35	3.08	20.54	8.89	6.54	1.61	161	0.98
EL-SW01D	-60221	6/2/2021	903	7.32	3.09	20.63	8.52	5.60	1.61	162	1.43
MSA-SW37A	-60221	6/2/2021	1129	7.73	3.05	21.86	5.40	8.03	1.59	152	0.51
MSA-SW37B	-60221	6/2/2021	1134	7.72	3.07	21.74	6.24	7.64	1.60	153	1.05
MSA-SW37C	-60221	6/2/2021	1138	7.66	3.07	21.51	6.47	7.25	1.60	156	1.52
MSA-SW37D	-60221	6/2/2021	1143	7.67	3.07	21.49	5.37	7.23	1.60	155	>1.6
MSA-SW38A	-60221	6/2/2021	1023	7.49	3.05	21.20	8.72	6.03	1.59	160	0.43
MSA-SW38B	-60221	6/2/2021	1028	7.48	3.06	21.03	8.38	6.23	1.59	161	1.30
MSA-SW38C	-60221	6/2/2021	1034	7.49	3.06	21.04	7.39	6.63	1.59	160	1.50
MSA-SW38D	-60221	6/2/2021	1037	7.52	3.07	21.05	11.00	6.51	1.60	160	1.59
MSA-SW40A	-60221	6/2/2021	1047	7.53	3.07	21.64	7.22	6.66	1.60	156	0.48
MSA-SW40B	-60221	6/2/2021	1050	7.53	3.07	21.23	8.44	7.01	1.60	158	0.82
MSA-SW40C	-60221	6/2/2021	1054	7.54	3.07	21.24	8.49	7.00	1.60	159	1.21
MSA-SW40D	-60221	6/2/2021	1100	7.55	3.07	21.18	7.69	6.56	1.60	157	>1.6
MSA-SW41A	-60221	6/2/2021	1000	7.47	3.07	20.96	9.04	6.18	1.60	161	0.55
MSA-SW41B	-60221	6/2/2021	1003	7.49	3.07	20.92	7.69	6.36	1.60	161	0.88
MSA-SW41C	-60221	6/2/2021	1009	7.50	3.07	20.92	8.00	6.10	1.60	160	0.96
MSA-SW41D	-60221	6/2/2021	1014	7.44	3.07	20.85	8.47	5.74	1.60	163	1.55
MSA-SW42A	-60221	6/2/2021	1107	7.65	3.07	21.79	7.09	7.34	1.60	156	0.49
MSA-SW42B	-60221	6/2/2021	1111	7.62	3.07	21.49	8.27	7.28	1.60	156	1.11
MSA-SW42C	-60221	6/2/2021	1118	7.59	3.07	21.27	8.81	6.71	1.60	157	1.55
MSA-SW42D	-60221	6/2/2021	1124	7.61	3.07	21.28	8.96	7.21	1.60	159	>1.6
MSA-SW43A	-60221	6/2/2021	932	7.42	3.07	20.72	7.55	5.91	1.60	160	0.52
MSA-SW43B	-60221	6/2/2021	936	7.46	3.08	20.78	6.00	6.41	1.60	160	1.13
MSA-SW43C	-60221	6/2/2021	943	7.47	3.07	20.75	7.89	6.15	1.60	161	1.52
MSA-SW43D	-60221	6/2/2021	946	7.47	3.08	20.81	5.56	6.66	1.60	162	>1.60
MSA-SW44A	-60221	6/2/2021	914	7.37	3.05	20.61	14.30	5.97	1.59	156	0.36
MSA-SW44B	-60221	6/2/2021	917	7.36	3.07	20.68	7.93	6.06	1.60	159	1.03
MSA-SW44C	-60221	6/2/2021	922	7.38	3.08	20.63	8.57	5.77	1.60	160	1.60
MSA-SW44D	-60221	6/2/2021	927	7.40	3.08	20.70	8.77	6.14	1.60	161	>1.60
MSA-SW46A	-60221	6/2/2021	102	7.56	3.06	21.53	6.90	6.67	1.59	157	0.70
MSA-SW47A	-60221	6/2/2021	1043	7.53	3.07	21.33	7.08	6.34	1.59	158	0.71
MSA-SW48A	-60221	6/2/2021	1016	7.48	3.05	21.16	9.82	6.45	1.59	161	0.45
MSA-SW49A	-60221	6/2/2021	952	7.46	3.07	20.88	10.09	6.05	1.60	161	0.40

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

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

Sample ID No.: EL-SW01A -60221
Sample Location: EL-SW01A
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	817								
Depth:	1 ft below water	**clear**	**7.07**	**3.09**	**20.38**	**6.90**	**5.89**	**1.61**	**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 0.25 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.: 112IC09343

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

Sample ID No.: EL-SW01B -60221
Sample Location: EL-SW01B
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	853								
Depth:	1 ft below water	**clear**	**7.29**	**3.09**	**20.45**	**7.04**	**5.86**	**1.61**	**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 0.80 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.: 112IC09343

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

Sample ID No.: EL-SW01C -60221
Sample Location: EL-SW01C
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	857								
Depth:	1 ft below water	**clear**	**7.35**	**3.08**	**20.54**	**8.89**	**6.54**	**1.61**	**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 0.98 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.: 112IC09343

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

Sample ID No.: EL-SW01D -60221
Sample Location: EL-SW01D
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	903								
Depth:	1 ft below water	**clear**	**7.32**	**3.09**	**20.63**	**8.52**	**5.60**	**1.61**	**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 1.43 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.: 112IC09343

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

Sample ID No.: MSA-SW37A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1129								
Depth:	1 ft below water	**clear**	**7.73**	**3.05**	**21.86**	**5.4**	**8.03**	**1.59**	**152**
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 0.51 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.: 112IC09343

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

Sample ID No.: MSA-SW37B -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1134								
Depth:	1 ft below water	**clear**	**7.72**	**3.07**	**21.74**	**6.24**	**7.64**	**1.6**	**153**
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 1.05 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.: 112IC09343

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

Sample ID No.: MSA-SW37C -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1138								
Depth:	1 ft below water	**clear**	**7.66**	**3.07**	**21.51**	**6.47**	**7.25**	**1.6**	**156**
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 1.52 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.: 112IC09343

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

Sample ID No.: MSA-SW37D -60221
Sample Location: MSA-SW37D
Sampled By: J. Mullis
C.O.C. No.:

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

SAMPLING DATA:

Date:	6/2/2021	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1143	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**7.67**	**3.07**	**21.49**	**5.37**	**7.23**	**1.6**	**155**
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 >1.6 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.: 112IC09343

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

Sample ID No.: MSA-SW38A -60221
Sample Location: MSA-SW38A
Sampled By: J. Mullis
C.O.C. No.:

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

SAMPLING DATA:

Date:	6/2/2021	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1023	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**7.49**	**3.05**	**21.2**	**8.72**	**6.03**	**1.59**	**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 0.43 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.: 112IC09343

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

Sample ID No.: MSA-SW38B -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1028								
Depth:	1 ft below water	**clear**	**7.48**	**3.06**	**21.03**	**8.38**	**6.23**	**1.59**	**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 1.30 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.: 112IC09343

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

Sample ID No.: MSA-SW38C -60221
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:	6/2/2021								
Time:	1034	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**7.49**	**3.06**	**21.04**	**7.39**	**6.63**	**1.59**	**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 1.50 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.: 112IC09343

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

Sample ID No.: MSA-SW38D -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1037								
Depth:	1 ft below water	**clear**	**7.52**	**3.07**	**21.05**	**11.00**	**6.51**	**1.6**	**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 1.59 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.: 112IC09343

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

Sample ID No.: MSA-SW40A -60221
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:	6/2/2021								
Time:	1047	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**7.53**	**3.07**	**21.64**	**7.22**	**6.66**	**1.6**	**156**
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 0.48 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.: 112IC09343

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

Sample ID No.: MSA-SW40B -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1050								
Depth:	1 ft below water	**clear**	**7.53**	**3.07**	**21.23**	**8.44**	**7.01**	**1.6**	**158**
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.: 112IC09343

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

Sample ID No.: MSA-SW40C -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1054								
Depth:	1 ft below water	**clear**	**7.54**	**3.07**	**21.24**	**8.49**	**7.00**	**1.6**	**159**
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 1.21 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.: 112IC09343

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

Sample ID No.: MSA-SW40D -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1100								
Depth:	1 ft below water	**clear**	**7.55**	**3.07**	**21.18**	**7.69**	**6.56**	**1.6**	**157**
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 >1.6 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.: 112IC09343

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

Sample ID No.: MSA-SW41A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1000								
Depth:	1 ft below water	**clear**	**7.47**	**3.07**	**20.96**	**9.04**	**6.18**	**1.6**	**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 0.55 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.: 112IC09343

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

Sample ID No.: MSA-SW41B -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1003								
Depth:	1 ft below water	**clear**	**7.49**	**3.07**	**20.92**	**7.69**	**6.36**	**1.6**	**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 0.88 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.: 112IC09343

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

Sample ID No.: MSA-SW41C -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1009								
Depth:	1 ft below water	**clear**	**7.50**	**3.07**	**20.92**	**8.00**	**6.10**	**1.6**	**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 0.96 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.: 112IC09343

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

Sample ID No.: MSA-SW41D -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1014								
Depth:	1 ft below water	**clear**	**7.44**	**3.07**	**20.85**	**8.47**	**5.74**	**1.6**	**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 1.55 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.: 112IC09343

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

Sample ID No.: MSA-SW42A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1107								
Depth:	1 ft below water	**clear**	**7.65**	**3.07**	**21.79**	**7.09**	**7.34**	**1.6**	**156**
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 0.49 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.: 112IC09343

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

Sample ID No.: MSA-SW42B -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1111								
Depth:	1 ft below water	**clear**	**7.62**	**3.07**	**21.49**	**8.27**	**7.28**	**1.6**	**156**
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 1.11 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.: 112IC09343

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

Sample ID No.: MSA-SW42C -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1118								
Depth:	1 ft below water	**clear**	**7.59**	**3.07**	**21.27**	**8.81**	**6.71**	**1.6**	**157**
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 1.55 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.: 112IC09343

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

Sample ID No.: MSA-SW42D -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1124								
Depth:	1 ft below water	**clear**	**7.61**	**3.07**	**21.28**	**8.96**	**7.21**	**1.6**	**159**
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 >1.6 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.: 112IC09343

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

Sample ID No.: MSA-SW43A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	932								
Depth:	1 ft below water	**clear**	**7.42**	**3.07**	**20.72**	**7.55**	**5.91**	**1.6**	**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 0.52 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.: 112IC09343

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

Sample ID No.: MSA-SW43B -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	936								
Depth:	1 ft below water	**clear**	**7.46**	**3.08**	**20.78**	**6.00**	**6.41**	**1.6**	**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 1.13 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.: 112IC09343

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

Sample ID No.: MSA-SW43C -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	943								
Depth:	1 ft below water	**clear**	**7.47**	**3.07**	**20.75**	**7.89**	**6.15**	**1.6**	**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 1.52 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.: 112IC09343

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

Sample ID No.: MSA-SW43D -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	946								
Depth:	1 ft below water	**clear**	**7.47**	**3.08**	**20.81**	**5.56**	**6.66**	**1.6**	**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 >1.60 meters

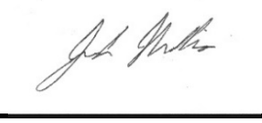
MAP:



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.: 112IC09343

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

Sample ID No.: MSA-SW44A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	914								
Depth:	1 ft below water	**clear**	**7.37**	**3.05**	**20.61**	**14.30**	**5.97**	**1.6**	**156**
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 0.36 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.: 112IC09343

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

Sample ID No.: MSA-SW44B -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	917								
Depth:	1 ft below water	**clear**	**7.36**	**3.07**	**20.68**	**7.93**	**6.06**	**1.6**	**159**
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 1.03 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.: 112IC09343

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

Sample ID No.: MSA-SW44C -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	922								
Depth:	1 ft below water	**clear**	**7.38**	**3.08**	**20.63**	**8.57**	**5.77**	**1.6**	**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 1.60 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.: 112IC09343

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

Sample ID No.: MSA-SW44D -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	927								
Depth:	1 ft below water	**clear**	**7.40**	**3.08**	**20.70**	**8.77**	**6.14**	**1.6**	**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 >1.60 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.: 112IC09343

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

Sample ID No.: MSA-SW46A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	102								
Depth:	1 ft below water	**clear**	**7.56**	**3.06**	**21.53**	**6.90**	**6.67**	**1.6**	**157**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.70 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.: 112IC09343

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

Sample ID No.: MSA-SW47A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1043								
Depth:	1 ft below water	**clear**	**7.53**	**3.07**	**21.33**	**7.08**	**6.34**	**1.6**	**158**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.71 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.: 112IC09343

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

Sample ID No.: MSA-SW48A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1016								
Depth:	1 ft below water	**clear**	**7.48**	**3.05**	**21.16**	**9.82**	**6.45**	**1.6**	**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 0.45 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.: 112IC09343

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

Sample ID No.: MSA-SW49A -60221
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:	6/2/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	952								
Depth:	1 ft below water	**clear**	**7.46**	**3.07**	**20.88**	**10.09**	**6.05**	**1.6**	**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 0.40 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

APPENDIX B—DATA-VALIDATION AND FULL LABORATORY REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

Job Number: 240-150601-1

SDG Number: MSA Frog Mortar Creek

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
6/16/2021 1:53 PM

Roxanne Cisneros, Senior Project Manager
4101 Shuffel Street NW, North Canton, OH, 44720
(615)301-5761
roxanne.cisneros@Eurofinset.com
06/16/2021

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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.

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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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

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.
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

Job Narrative
240-150601-1

Comments
No additional comments.

Receipt
The samples were received on 6/3/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.4º C, 3.9º C and 4.6º C.

GC/MS VOA
Methods 8260C: The continuing calibration verification (CCV) analyzed in batch 240-489711 was outside the method criteria for the Multiple Analytes. 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-060221 (240-150601-1), MSA-SW37B-060221 (240-150601-2) and (CCVIS 240-489711/3)

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-060221 (240-150601-1) and MSA-SW37B-060221 (240-150601-2). 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 240-490350.

Method 8260C: Surrogate recovery for the following samples were outside the upper control limit: MSA-SW40C-060221 (240-150601-11), MSA-SW40D-060221 (240-150601-12), MSA-SW41A-060221 (240-150601-13), MSA-SW41B-060221 (240-150601-14), MSA-SW41C-060221 (240-150601-15), MSA-SW41D-060221 (240-150601-16), MSA-SW42A-060221 (240-150601-17), MSA-SW42B-060221 (240-150601-18), MSA-SW42C-060221 (240-150601-19), MSA-SW42D-060221 (240-150601-20), MSA-SW43A-060221 (240-150601-21) and MSA-SW43B-060221 (240-150601-22). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-490350 was outside the method criteria for the following analyte(s): Multiple Analytes. 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-SW37C-060221 (240-150601-3), MSA-SW37D-060221 (240-150601-4), MSA-SW38A-060221 (240-150601-5), MSA-SW38B-060221 (240-150601-6), MSA-SW38C-060221 (240-150601-7), MSA-SW38D-060221 (240-150601-8), MSA-SW40A-060221 (240-150601-9), MSA-SW40B-060221 (240-150601-10), MSA-SW40C-060221 (240-150601-11), MSA-SW40D-060221 (240-150601-12), MSA-SW41A-060221 (240-150601-13), MSA-SW41B-060221 (240-150601-14), MSA-SW41C-060221 (240-150601-15), MSA-SW41D-060221 (240-150601-16), MSA-SW42A-060221 (240-150601-17), MSA-SW42B-060221 (240-150601-18), MSA-SW42C-060221 (240-150601-19), MSA-SW42D-060221 (240-150601-20), MSA-SW43A-060221 (240-150601-21), MSA-SW43B-060221 (240-150601-22) and (CCVIS 240-490350/4)

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-SW37C-060221 (240-150601-3), MSA-SW37D-060221 (240-150601-4), MSA-SW38A-060221 (240-150601-5), MSA-SW38B-060221 (240-150601-6), MSA-SW38C-060221 (240-150601-7), MSA-SW38D-060221 (240-150601-8), MSA-SW40A-060221 (240-150601-9), MSA-SW40B-060221 (240-150601-10), MSA-SW40C-060221 (240-150601-11), MSA-SW40D-060221 (240-150601-12), MSA-SW41A-060221 (240-150601-13), MSA-SW41B-060221 (240-150601-14), MSA-SW41C-060221 (240-150601-15), MSA-SW41D-060221 (240-150601-16), MSA-SW42A-060221 (240-150601-17), MSA-SW42B-060221 (240-150601-18), MSA-SW42C-060221 (240-150601-19), MSA-SW42D-060221 (240-150601-20), MSA-SW43A-060221 (240-150601-21) and MSA-SW43B-060221 (240-150601-22). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

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-SW43C-060221 (240-150601-23), MSA-43D-060221 (240-150601-24), MSA-44A-060221 (240-150601-25), MSA-44B-060221 (240-150601-26), MSA-44C-060221 (240-150601-27), MSA-44D-060221 (240-150601-28), TB-060221 (240-150601-29), MSA-SW46A-060221 (240-150601-30), MSA-SW47A-060221 (240-150601-31), MSA-SW48A-060221 (240-150601-32), MSA-SW49A-060221 (240-150601-33), EL-SW01A-060221 (240-150601-34), EL-SW01B-060221 (240-150601-35), EL-SW01C-060221 (240-150601-36) and EL-SW01D-060221 (240-150601-37). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-150601-1
SDG: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-060221 — Lab Sample ID: 240-150601-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.18	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW37B-060221 — Lab Sample ID: 240-150601-2

No Detections.

Client Sample ID: MSA-SW37C-060221 — Lab Sample ID: 240-150601-3

No Detections.

Client Sample ID: MSA-SW37D-060221 — Lab Sample ID: 240-150601-4

No Detections.

Client Sample ID: MSA-SW38A-060221 — Lab Sample ID: 240-150601-5

No Detections.

Client Sample ID: MSA-SW38B-060221 — Lab Sample ID: 240-150601-6

No Detections.

Client Sample ID: MSA-SW38C-060221 — Lab Sample ID: 240-150601-7

No Detections.

Client Sample ID: MSA-SW38D-060221 — Lab Sample ID: 240-150601-8

No Detections.

Client Sample ID: MSA-SW40A-060221 — Lab Sample ID: 240-150601-9

No Detections.

Client Sample ID: MSA-SW40B-060221 — Lab Sample ID: 240-150601-10

No Detections.

Client Sample ID: MSA-SW40C-060221 — Lab Sample ID: 240-150601-11

No Detections.

Client Sample ID: MSA-SW40D-060221 — Lab Sample ID: 240-150601-12

No Detections.

Client Sample ID: MSA-SW41A-060221 — Lab Sample ID: 240-150601-13

No Detections.

Client Sample ID: MSA-SW41B-060221 — Lab Sample ID: 240-150601-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.11	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.21	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW41C-060221 — Lab Sample ID: 240-150601-15

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-150601-1
SDG: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-060221 — Lab Sample ID: 240-150601-16

No Detections.

Client Sample ID: MSA-SW42A-060221 — Lab Sample ID: 240-150601-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.11	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.15	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW42B-060221 — Lab Sample ID: 240-150601-18

No Detections.

Client Sample ID: MSA-SW42C-060221 — Lab Sample ID: 240-150601-19

No Detections.

Client Sample ID: MSA-SW42D-060221 — Lab Sample ID: 240-150601-20

No Detections.

Client Sample ID: MSA-SW43A-060221 — Lab Sample ID: 240-150601-21

No Detections.

Client Sample ID: MSA-SW43B-060221 — Lab Sample ID: 240-150601-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.098	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.16	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW43C-060221 — Lab Sample ID: 240-150601-23

No Detections.

Client Sample ID: MSA-43D-060221 — Lab Sample ID: 240-150601-24

No Detections.

Client Sample ID: MSA-44A-060221 — Lab Sample ID: 240-150601-25

No Detections.

Client Sample ID: MSA-44B-060221 — Lab Sample ID: 240-150601-26

No Detections.

Client Sample ID: MSA-44C-060221 — Lab Sample ID: 240-150601-27

No Detections.

Client Sample ID: MSA-44D-060221 — Lab Sample ID: 240-150601-28

No Detections.

Client Sample ID: TB-060221 — Lab Sample ID: 240-150601-29

No Detections.

Client Sample ID: MSA-SW46A-060221 — Lab Sample ID: 240-150601-30

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-150601-1
SDG: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-060221 — Lab Sample ID: 240-150601-31

No Detections.

Client Sample ID: MSA-SW48A-060221 — Lab Sample ID: 240-150601-32

No Detections.

Client Sample ID: MSA-SW49A-060221 — Lab Sample ID: 240-150601-33

No Detections.

Client Sample ID: EL-SW01A-060221 — Lab Sample ID: 240-150601-34

No Detections.

Client Sample ID: EL-SW01B-060221 — Lab Sample ID: 240-150601-35

No Detections.

Client Sample ID: EL-SW01C-060221 — Lab Sample ID: 240-150601-36

No Detections.

Client Sample ID: EL-SW01D-060221 — Lab Sample ID: 240-150601-37

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MSA-SW37A-060221

Date Collected: 06/02/21 11:29
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/09/21 18:57	1
Benzene	1.0	U	1.0	0.13	ug/L			06/09/21 18:57	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/09/21 18:57	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/09/21 18:57	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/09/21 18:57	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/09/21 18:57	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/09/21 18:57	1
2-Butanone	10	U	10	1.2	ug/L			06/09/21 18:57	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/09/21 18:57	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/09/21 18:57	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/09/21 18:57	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/09/21 18:57	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/09/21 18:57	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/09/21 18:57	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/09/21 18:57	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/09/21 18:57	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/09/21 18:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/09/21 18:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/09/21 18:57	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/09/21 18:57	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/09/21 18:57	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/09/21 18:57	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/09/21 18:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/09/21 18:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/09/21 18:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/09/21 18:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/09/21 18:57	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/09/21 18:57	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/09/21 18:57	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/09/21 18:57	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/09/21 18:57	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/09/21 18:57	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/09/21 18:57	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/09/21 18:57	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/09/21 18:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/09/21 18:57	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/09/21 18:57	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/09/21 18:57	1
2-Hexanone	10	U	10	0.54	ug/L			06/09/21 18:57	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/09/21 18:57	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/09/21 18:57	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/09/21 18:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/09/21 18:57	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/09/21 18:57	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/09/21 18:57	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/09/21 18:57	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/09/21 18:57	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/09/21 18:57	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/09/21 18:57	1

Client Sample ID: MSA-SW37A-060221

Lab Sample ID: 240-150601-1

Date Collected: 06/02/21 11:29
Matrix: Water
Date Received: 06/03/21 09:45

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			06/09/21 18:57	1
Styrene	1.0	U	1.0	0.10	ug/L			06/09/21 18:57	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/09/21 18:57	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/09/21 18:57	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/09/21 18:57	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/09/21 18:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/09/21 18:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/09/21 18:57	1
Toluene	**0.18**	**J**	1.0	0.14	ug/L			06/09/21 18:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/09/21 18:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/09/21 18:57	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/09/21 18:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/09/21 18:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/09/21 18:57	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/09/21 18:57	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/09/21 18:57	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/09/21 18:57	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/09/21 18:57	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/09/21 18:57	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/09/21 18:57	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/09/21 18:57	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/09/21 18:57	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/09/21 18:57	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*		*06/09/21 18:57*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/09/21 18:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*47 - 134*		*06/09/21 18:57*	*1*
Dibromofluoromethane (Surr)	*99*		*78 - 129*		*06/09/21 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 130*		*06/09/21 18:57*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*06/09/21 18:57*	*1*

Client Sample ID: MSA-SW37B-060221

Lab Sample ID: 240-150601-2

Date Collected: 06/02/21 11:34
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/09/21 19:21	1
Benzene	1.0	U	1.0	0.13	ug/L			06/09/21 19:21	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/09/21 19:21	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/09/21 19:21	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/09/21 19:21	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/09/21 19:21	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/09/21 19:21	1
2-Butanone	10	U	10	1.2	ug/L			06/09/21 19:21	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/09/21 19:21	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/09/21 19:21	1

Client Sample ID: MSA-SW37B-060221

Date Collected: 06/02/21 11:34
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-2

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			06/09/21 19:21	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/09/21 19:21	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/09/21 19:21	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/09/21 19:21	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/09/21 19:21	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/09/21 19:21	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/09/21 19:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/09/21 19:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/09/21 19:21	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/09/21 19:21	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/09/21 19:21	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/09/21 19:21	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/09/21 19:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/09/21 19:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/09/21 19:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/09/21 19:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/09/21 19:21	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/09/21 19:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/09/21 19:21	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/09/21 19:21	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/09/21 19:21	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/09/21 19:21	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/09/21 19:21	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/09/21 19:21	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/09/21 19:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/09/21 19:21	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/09/21 19:21	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/09/21 19:21	1
2-Hexanone	10	U	10	0.54	ug/L			06/09/21 19:21	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/09/21 19:21	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/09/21 19:21	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/09/21 19:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/09/21 19:21	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/09/21 19:21	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/09/21 19:21	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/09/21 19:21	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/09/21 19:21	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/09/21 19:21	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/09/21 19:21	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/09/21 19:21	1
Styrene	1.0	U	1.0	0.10	ug/L			06/09/21 19:21	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/09/21 19:21	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/09/21 19:21	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/09/21 19:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/09/21 19:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/09/21 19:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/09/21 19:21	1
Toluene	1.0	U	1.0	0.14	ug/L			06/09/21 19:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/09/21 19:21	1

Client Sample ID: MSA-SW37B-060221

Lab Sample ID: 240-150601-2

Date Collected: 06/02/21 11:34

Matrix: Water

Date Received: 06/03/21 09:45

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			06/09/21 19:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/09/21 19:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/09/21 19:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/09/21 19:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/09/21 19:21	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/09/21 19:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/09/21 19:21	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/09/21 19:21	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/09/21 19:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/09/21 19:21	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/09/21 19:21	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/09/21 19:21	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/09/21 19:21	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*		*06/09/21 19:21*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/09/21 19:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*06/09/21 19:21*	*1*
Dibromofluoromethane (Surr)	*99*		*78 - 129*		*06/09/21 19:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 130*		*06/09/21 19:21*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*06/09/21 19:21*	*1*

Client Sample ID: MSA-SW37C-060221

Lab Sample ID: 240-150601-3

Date Collected: 06/02/21 11:38

Matrix: Water

Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 12:38	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 12:38	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 12:38	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 12:38	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 12:38	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 12:38	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 12:38	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 12:38	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 12:38	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 12:38	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 12:38	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 12:38	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 12:38	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 12:38	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 12:38	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 12:38	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 12:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 12:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 12:38	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 12:38	1

Client Sample ID: MSA-SW37C-060221

Date Collected: 06/02/21 11:38
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-3

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	2.0	U	2.0	0.91	ug/L			06/13/21 12:38	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 12:38	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 12:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 12:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 12:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 12:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 12:38	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 12:38	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 12:38	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 12:38	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 12:38	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 12:38	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 12:38	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 12:38	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 12:38	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 12:38	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 12:38	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 12:38	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 12:38	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 12:38	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 12:38	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 12:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 12:38	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 12:38	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 12:38	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 12:38	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 12:38	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 12:38	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 12:38	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 12:38	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 12:38	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 12:38	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 12:38	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 12:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 12:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 12:38	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 12:38	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 12:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 12:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 12:38	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 12:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 12:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 12:38	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 12:38	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 12:38	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 12:38	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 12:38	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 12:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 12:38	1

Client Sample ID: MSA-SW37C-060221

Lab Sample ID: 240-150601-3

Date Collected: 06/02/21 11:38
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 12:38	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 12:38	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 12:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*		*2.35*	*75-45-6*		*06/13/21 12:38*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 12:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*47 - 134*		*06/13/21 12:38*	*1*
Dibromofluoromethane (Surr)	*97*		*78 - 129*		*06/13/21 12:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 130*		*06/13/21 12:38*	*1*
Toluene-d8 (Surr)	*101*		*69 - 122*		*06/13/21 12:38*	*1*

Client Sample ID: MSA-SW37D-060221

Lab Sample ID: 240-150601-4

Date Collected: 06/02/21 11:43
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 13:00	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 13:00	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 13:00	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 13:00	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 13:00	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 13:00	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 13:00	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 13:00	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 13:00	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 13:00	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:00	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 13:00	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 13:00	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 13:00	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 13:00	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 13:00	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 13:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 13:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 13:00	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 13:00	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 13:00	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 13:00	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 13:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 13:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 13:00	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 13:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 13:00	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 13:00	1

Client Sample ID: MSA-SW37D-060221

Date Collected: 06/02/21 11:43
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-4

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			06/13/21 13:00	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 13:00	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 13:00	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 13:00	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 13:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 13:00	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 13:00	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 13:00	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 13:00	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 13:00	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 13:00	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 13:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 13:00	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 13:00	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 13:00	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:00	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:00	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 13:00	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 13:00	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 13:00	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 13:00	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 13:00	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 13:00	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 13:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 13:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 13:00	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 13:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 13:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 13:00	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 13:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 13:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 13:00	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 13:00	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 13:00	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 13:00	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 13:00	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 13:00	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 13:00	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 13:00	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 13:00	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 13:00	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*		*06/13/21 13:00*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 13:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*06/13/21 13:00*	*1*
Dibromofluoromethane (Surr)	*104*		*78 - 129*		*06/13/21 13:00*	*1*

Client Sample ID: MSA-SW37D-060221

Lab Sample ID: 240-150601-4

Date Collected: 06/02/21 11:43
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*06/13/21 13:00*	*1*
Toluene-d8 (Surr)	*110*		*69 - 122*		*06/13/21 13:00*	*1*

Client Sample ID: MSA-SW38A-060221

Lab Sample ID: 240-150601-5

Date Collected: 06/02/21 10:23
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 13:23	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 13:23	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 13:23	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 13:23	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 13:23	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 13:23	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 13:23	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 13:23	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 13:23	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 13:23	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:23	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 13:23	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 13:23	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 13:23	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 13:23	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 13:23	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 13:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 13:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 13:23	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 13:23	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 13:23	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 13:23	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 13:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 13:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 13:23	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 13:23	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 13:23	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 13:23	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 13:23	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 13:23	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 13:23	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 13:23	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 13:23	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 13:23	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 13:23	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 13:23	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 13:23	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 13:23	1

Client Sample ID: MSA-SW38A-060221

Lab Sample ID: 240-150601-5

Date Collected: 06/02/21 10:23
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 13:23	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 13:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 13:23	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 13:23	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 13:23	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:23	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:23	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 13:23	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 13:23	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 13:23	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 13:23	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 13:23	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 13:23	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:23	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 13:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 13:23	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 13:23	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 13:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 13:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 13:23	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 13:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 13:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 13:23	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 13:23	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 13:23	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 13:23	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 13:23	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 13:23	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 13:23	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 13:23	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 13:23	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 13:23	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*		*06/13/21 13:23*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 13:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*06/13/21 13:23*	*1*
Dibromofluoromethane (Surr)	*105*		*78 - 129*		*06/13/21 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*06/13/21 13:23*	*1*
Toluene-d8 (Surr)	*108*		*69 - 122*		*06/13/21 13:23*	*1*

Client Sample ID: MSA-SW38B-060221

Lab Sample ID: 240-150601-6

Date Collected: 06/02/21 10:28
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 13:45	1

Client Sample ID: MSA-SW38B-060221

Date Collected: 06/02/21 10:28
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-6

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			06/13/21 13:45	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 13:45	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 13:45	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 13:45	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 13:45	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 13:45	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 13:45	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 13:45	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 13:45	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:45	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 13:45	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 13:45	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 13:45	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 13:45	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 13:45	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 13:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 13:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 13:45	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 13:45	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 13:45	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 13:45	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 13:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 13:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 13:45	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 13:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 13:45	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 13:45	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 13:45	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 13:45	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 13:45	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 13:45	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 13:45	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 13:45	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 13:45	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 13:45	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 13:45	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 13:45	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 13:45	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 13:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 13:45	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 13:45	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 13:45	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:45	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 13:45	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 13:45	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 13:45	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 13:45	1

Client Sample ID: MSA-SW38B-060221

Lab Sample ID: 240-150601-6

Date Collected: 06/02/21 10:28
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 13:45	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 13:45	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 13:45	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 13:45	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 13:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 13:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 13:45	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 13:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 13:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 13:45	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 13:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 13:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 13:45	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 13:45	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 13:45	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 13:45	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 13:45	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 13:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 13:45	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 13:45	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 13:45	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 13:45	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*		*06/13/21 13:45*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 13:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*		*06/13/21 13:45*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*06/13/21 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 130*		*06/13/21 13:45*	*1*
Toluene-d8 (Surr)	*106*		*69 - 122*		*06/13/21 13:45*	*1*

Client Sample ID: MSA-SW38C-060221

Lab Sample ID: 240-150601-7

Date Collected: 06/02/21 10:34
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 14:08	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 14:08	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 14:08	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 14:08	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 14:08	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 14:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 14:08	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 14:08	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 14:08	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 14:08	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:08	1

Client Sample ID: MSA-SW38C-060221

Date Collected: 06/02/21 10:34
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-7

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			06/13/21 14:08	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 14:08	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 14:08	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 14:08	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 14:08	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 14:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 14:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 14:08	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 14:08	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 14:08	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 14:08	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 14:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 14:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 14:08	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 14:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 14:08	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 14:08	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 14:08	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 14:08	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 14:08	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 14:08	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 14:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 14:08	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 14:08	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 14:08	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 14:08	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 14:08	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 14:08	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 14:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 14:08	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 14:08	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 14:08	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:08	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:08	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 14:08	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 14:08	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 14:08	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 14:08	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 14:08	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 14:08	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:08	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 14:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 14:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 14:08	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 14:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 14:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 14:08	1

Client Sample ID: MSA-SW38C-060221

Lab Sample ID: 240-150601-7

Date Collected: 06/02/21 10:34
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 14:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 14:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 14:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 14:08	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 14:08	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 14:08	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 14:08	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 14:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 14:08	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 14:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 14:08	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 14:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*		*2.32*	*75-45-6*		*06/13/21 14:08*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 14:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*47 - 134*		*06/13/21 14:08*	*1*
Dibromofluoromethane (Surr)	*109*		*78 - 129*		*06/13/21 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*06/13/21 14:08*	*1*
Toluene-d8 (Surr)	*113*		*69 - 122*		*06/13/21 14:08*	*1*

Client Sample ID: MSA-SW38D-060221

Lab Sample ID: 240-150601-8

Date Collected: 06/02/21 10:37
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 14:31	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 14:31	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 14:31	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 14:31	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 14:31	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 14:31	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 14:31	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 14:31	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 14:31	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 14:31	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:31	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 14:31	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 14:31	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 14:31	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 14:31	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 14:31	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 14:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 14:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 14:31	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 14:31	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 14:31	1

Client Sample ID: MSA-SW38D-060221

Date Collected: 06/02/21 10:37
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-8

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			06/13/21 14:31	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 14:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 14:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 14:31	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 14:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 14:31	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 14:31	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 14:31	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 14:31	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 14:31	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 14:31	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 14:31	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 14:31	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 14:31	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 14:31	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 14:31	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 14:31	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 14:31	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 14:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 14:31	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 14:31	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 14:31	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:31	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:31	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 14:31	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 14:31	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 14:31	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 14:31	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 14:31	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 14:31	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:31	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 14:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 14:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 14:31	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 14:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 14:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 14:31	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 14:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 14:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 14:31	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 14:31	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 14:31	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 14:31	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 14:31	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 14:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 14:31	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 14:31	1

Client Sample ID: MSA-SW38D-060221

Lab Sample ID: 240-150601-8

Date Collected: 06/02/21 10:37

Matrix: Water

Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 14:31	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 14:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*		*2.32*	*75-45-6*		*06/13/21 14:31*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 14:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*47 - 134*		*06/13/21 14:31*	*1*
Dibromofluoromethane (Surr)	*113*		*78 - 129*		*06/13/21 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 130*		*06/13/21 14:31*	*1*
Toluene-d8 (Surr)	*121*		*69 - 122*		*06/13/21 14:31*	*1*

Client Sample ID: MSA-SW40A-060221

Lab Sample ID: 240-150601-9

Date Collected: 06/02/21 10:47

Matrix: Water

Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 14:53	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 14:53	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 14:53	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 14:53	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 14:53	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 14:53	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 14:53	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 14:53	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 14:53	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 14:53	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:53	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 14:53	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 14:53	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 14:53	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 14:53	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 14:53	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 14:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 14:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 14:53	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 14:53	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 14:53	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 14:53	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 14:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 14:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 14:53	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 14:53	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 14:53	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 14:53	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 14:53	1

Client Sample ID: MSA-SW40A-060221

Date Collected: 06/02/21 10:47
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-9

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			06/13/21 14:53	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 14:53	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 14:53	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 14:53	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 14:53	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 14:53	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 14:53	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 14:53	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 14:53	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 14:53	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 14:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 14:53	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 14:53	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 14:53	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:53	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 14:53	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 14:53	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 14:53	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 14:53	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 14:53	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 14:53	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 14:53	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 14:53	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 14:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 14:53	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 14:53	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 14:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 14:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 14:53	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 14:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 14:53	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 14:53	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 14:53	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 14:53	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 14:53	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 14:53	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 14:53	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 14:53	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 14:53	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 14:53	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 14:53	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*		*06/13/21 14:53*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 14:53*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*47 - 134*		*06/13/21 14:53*	*1*
Dibromofluoromethane (Surr)	*110*		*78 - 129*		*06/13/21 14:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*06/13/21 14:53*	*1*

Client Sample ID: MSA-SW40A-060221

Lab Sample ID: 240-150601-9

Date Collected: 06/02/21 10:47
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*116*		*69 - 122*		*06/13/21 14:53*	*1*

Client Sample ID: MSA-SW40B-060221

Lab Sample ID: 240-150601-10

Date Collected: 06/02/21 10:50
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 15:16	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 15:16	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 15:16	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 15:16	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 15:16	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 15:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 15:16	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 15:16	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 15:16	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 15:16	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 15:16	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 15:16	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 15:16	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 15:16	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 15:16	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 15:16	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 15:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 15:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 15:16	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 15:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 15:16	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 15:16	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 15:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 15:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 15:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 15:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 15:16	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 15:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 15:16	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 15:16	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 15:16	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 15:16	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 15:16	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 15:16	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 15:16	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 15:16	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 15:16	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 15:16	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 15:16	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 15:16	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 15:16	1

Client Sample ID: MSA-SW40B-060221

Lab Sample ID: 240-150601-10

Date Collected: 06/02/21 10:50
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 15:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 15:16	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 15:16	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 15:16	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 15:16	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 15:16	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 15:16	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 15:16	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 15:16	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 15:16	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 15:16	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 15:16	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 15:16	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 15:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 15:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 15:16	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 15:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 15:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 15:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 15:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 15:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 15:16	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 15:16	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 15:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 15:16	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 15:16	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 15:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 15:16	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 15:16	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 15:16	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 15:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*		*2.33*	*75-45-6*		*06/13/21 15:16*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 15:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*47 - 134*		*06/13/21 15:16*	*1*
Dibromofluoromethane (Surr)	*119*		*78 - 129*		*06/13/21 15:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 130*		*06/13/21 15:16*	*1*
Toluene-d8 (Surr)	*122*		*69 - 122*		*06/13/21 15:16*	*1*

Client Sample ID: MSA-SW40C-060221

Lab Sample ID: 240-150601-11

Date Collected: 06/02/21 10:54
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 15:39	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 15:39	1

Client Sample ID: MSA-SW40C-060221

Date Collected: 06/02/21 10:54
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-11

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			06/13/21 15:39	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 15:39	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 15:39	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 15:39	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 15:39	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 15:39	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 15:39	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 15:39	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 15:39	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 15:39	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 15:39	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 15:39	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 15:39	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 15:39	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 15:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 15:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 15:39	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 15:39	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 15:39	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 15:39	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 15:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 15:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 15:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 15:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 15:39	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 15:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 15:39	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 15:39	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 15:39	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 15:39	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 15:39	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 15:39	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 15:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 15:39	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 15:39	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 15:39	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 15:39	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 15:39	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 15:39	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 15:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 15:39	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 15:39	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 15:39	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 15:39	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 15:39	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 15:39	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 15:39	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 15:39	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 15:39	1

Client Sample ID: MSA-SW40C-060221

Lab Sample ID: 240-150601-11

Date Collected: 06/02/21 10:54
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 15:39	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 15:39	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 15:39	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 15:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 15:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 15:39	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 15:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 15:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 15:39	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 15:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 15:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 15:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 15:39	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 15:39	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 15:39	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 15:39	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 15:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 15:39	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 15:39	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 15:39	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 15:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*		*2.32*	*75-45-6*		*06/13/21 15:39*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 15:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*47 - 134*		*06/13/21 15:39*	*1*
Dibromofluoromethane (Surr)	*121*		*78 - 129*		*06/13/21 15:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 130*		*06/13/21 15:39*	*1*
Toluene-d8 (Surr)	*126*	*S1+*	*69 - 122*		*06/13/21 15:39*	*1*

Client Sample ID: MSA-SW40D-060221

Lab Sample ID: 240-150601-12

Date Collected: 06/02/21 11:00
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 16:01	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 16:01	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 16:01	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 16:01	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 16:01	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 16:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 16:01	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 16:01	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 16:01	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 16:01	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:01	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 16:01	1

Client Sample ID: MSA-SW40D-060221

Date Collected: 06/02/21 11:00
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-12

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			06/13/21 16:01	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 16:01	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 16:01	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 16:01	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 16:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 16:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 16:01	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 16:01	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 16:01	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 16:01	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 16:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 16:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 16:01	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 16:01	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 16:01	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 16:01	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 16:01	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 16:01	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 16:01	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 16:01	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 16:01	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 16:01	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 16:01	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 16:01	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 16:01	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 16:01	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 16:01	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 16:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 16:01	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 16:01	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 16:01	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:01	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:01	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 16:01	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 16:01	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 16:01	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 16:01	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 16:01	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 16:01	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:01	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 16:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 16:01	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 16:01	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 16:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 16:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 16:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 16:01	1

Client Sample ID: MSA-SW40D-060221

Lab Sample ID: 240-150601-12

Date Collected: 06/02/21 11:00
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 16:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 16:01	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 16:01	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 16:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 16:01	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 16:01	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 16:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 16:01	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 16:01	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 16:01	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 16:01	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*		*06/13/21 16:01*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 16:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*47 - 134*		*06/13/21 16:01*	*1*
Dibromofluoromethane (Surr)	*117*		*78 - 129*		*06/13/21 16:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 130*		*06/13/21 16:01*	*1*
Toluene-d8 (Surr)	*123*	*S1+*	*69 - 122*		*06/13/21 16:01*	*1*

Client Sample ID: MSA-SW41A-060221

Lab Sample ID: 240-150601-13

Date Collected: 06/02/21 10:00
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 16:24	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 16:24	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 16:24	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 16:24	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 16:24	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 16:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 16:24	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 16:24	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 16:24	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 16:24	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:24	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 16:24	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 16:24	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 16:24	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 16:24	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 16:24	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 16:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 16:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 16:24	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 16:24	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 16:24	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 16:24	1

Client Sample ID: MSA-SW41A-060221

Date Collected: 06/02/21 10:00
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-13

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			06/13/21 16:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 16:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 16:24	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 16:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 16:24	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 16:24	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 16:24	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 16:24	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 16:24	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 16:24	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 16:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 16:24	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 16:24	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 16:24	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 16:24	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 16:24	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 16:24	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 16:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 16:24	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 16:24	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 16:24	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:24	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:24	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 16:24	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 16:24	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 16:24	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 16:24	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 16:24	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 16:24	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 16:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 16:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 16:24	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 16:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 16:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 16:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 16:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 16:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 16:24	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 16:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 16:24	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 16:24	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 16:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 16:24	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 16:24	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 16:24	1

Client Sample ID: MSA-SW41A-060221

Lab Sample ID: 240-150601-13

Date Collected: 06/02/21 10:00
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 16:24	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*		*06/13/21 16:24*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 16:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*47 - 134*		*06/13/21 16:24*	*1*
Dibromofluoromethane (Surr)	*129*		*78 - 129*		*06/13/21 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*75 - 130*		*06/13/21 16:24*	*1*
Toluene-d8 (Surr)	*134*	*S1+*	*69 - 122*		*06/13/21 16:24*	*1*

Client Sample ID: MSA-SW41B-060221

Lab Sample ID: 240-150601-14

Date Collected: 06/02/21 10:03
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 16:46	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 16:46	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 16:46	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 16:46	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 16:46	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 16:46	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 16:46	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 16:46	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 16:46	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 16:46	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:46	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 16:46	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 16:46	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 16:46	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 16:46	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 16:46	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 16:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 16:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 16:46	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 16:46	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 16:46	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 16:46	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 16:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 16:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 16:46	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 16:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 16:46	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 16:46	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 16:46	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 16:46	1

Client Sample ID: MSA-SW41B-060221

Date Collected: 06/02/21 10:03
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-14

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			06/13/21 16:46	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 16:46	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 16:46	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 16:46	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 16:46	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 16:46	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 16:46	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 16:46	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 16:46	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 16:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 16:46	1
m-Xylene & p-Xylene	**0.11**	**J**	2.0	0.080	ug/L			06/13/21 16:46	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 16:46	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:46	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 16:46	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 16:46	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 16:46	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 16:46	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 16:46	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 16:46	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 16:46	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 16:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 16:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 16:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 16:46	1
Toluene	**0.21**	**J**	1.0	0.14	ug/L			06/13/21 16:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 16:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 16:46	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 16:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 16:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 16:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 16:46	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 16:46	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 16:46	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 16:46	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 16:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 16:46	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 16:46	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 16:46	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 16:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*		*2.31*	*75-45-6*		*06/13/21 16:46*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 16:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*		*47 - 134*		*06/13/21 16:46*	*1*
Dibromofluoromethane (Surr)	*133*	*S1+*	*78 - 129*		*06/13/21 16:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 130*		*06/13/21 16:46*	*1*
Toluene-d8 (Surr)	*140*	*S1+*	*69 - 122*		*06/13/21 16:46*	*1*

Client Sample ID: MSA-SW41C-060221

Date Collected: 06/02/21 10:09
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-15

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 17:09	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 17:09	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 17:09	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 17:09	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 17:09	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 17:09	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 17:09	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 17:09	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 17:09	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 17:09	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 17:09	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 17:09	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 17:09	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 17:09	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 17:09	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 17:09	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 17:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 17:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 17:09	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 17:09	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 17:09	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 17:09	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 17:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 17:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 17:09	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 17:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 17:09	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 17:09	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 17:09	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 17:09	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 17:09	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 17:09	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 17:09	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 17:09	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 17:09	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 17:09	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 17:09	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 17:09	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 17:09	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 17:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 17:09	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 17:09	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 17:09	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 17:09	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:09	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 17:09	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 17:09	1

Client Sample ID: MSA-SW41C-060221

Lab Sample ID: 240-150601-15

Date Collected: 06/02/21 10:09
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 17:09	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 17:09	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 17:09	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 17:09	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 17:09	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 17:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 17:09	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 17:09	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 17:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 17:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 17:09	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 17:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 17:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 17:09	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 17:09	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 17:09	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 17:09	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 17:09	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 17:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 17:09	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 17:09	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 17:09	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 17:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*		*2.32*	*75-45-6*		*06/13/21 17:09*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 17:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*47 - 134*		*06/13/21 17:09*	*1*
Dibromofluoromethane (Surr)	*129*		*78 - 129*		*06/13/21 17:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*75 - 130*		*06/13/21 17:09*	*1*
Toluene-d8 (Surr)	*134*	*S1+*	*69 - 122*		*06/13/21 17:09*	*1*

Client Sample ID: MSA-SW41D-060221

Lab Sample ID: 240-150601-16

Date Collected: 06/02/21 10:14
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 17:31	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 17:31	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 17:31	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 17:31	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 17:31	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 17:31	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 17:31	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 17:31	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 17:31	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 17:31	1

Client Sample ID: MSA-SW41D-060221

Date Collected: 06/02/21 10:14
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-16

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			06/13/21 17:31	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 17:31	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 17:31	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 17:31	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 17:31	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 17:31	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 17:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 17:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 17:31	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 17:31	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 17:31	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 17:31	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 17:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 17:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 17:31	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 17:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 17:31	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 17:31	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 17:31	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 17:31	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 17:31	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 17:31	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 17:31	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 17:31	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 17:31	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 17:31	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 17:31	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 17:31	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 17:31	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 17:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 17:31	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 17:31	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 17:31	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 17:31	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:31	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 17:31	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 17:31	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 17:31	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 17:31	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 17:31	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 17:31	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 17:31	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 17:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 17:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 17:31	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 17:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 17:31	1

Client Sample ID: MSA-SW41D-060221

Lab Sample ID: 240-150601-16

Date Collected: 06/02/21 10:14

Matrix: Water

Date Received: 06/03/21 09:45

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			06/13/21 17:31	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 17:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 17:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 17:31	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 17:31	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 17:31	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 17:31	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 17:31	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 17:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 17:31	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 17:31	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 17:31	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 17:31	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*		*06/13/21 17:31*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 17:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*47 - 134*		*06/13/21 17:31*	*1*
Dibromofluoromethane (Surr)	*127*		*78 - 129*		*06/13/21 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 130*		*06/13/21 17:31*	*1*
Toluene-d8 (Surr)	*130*	*S1+*	*69 - 122*		*06/13/21 17:31*	*1*

Client Sample ID: MSA-SW42A-060221

Lab Sample ID: 240-150601-17

Date Collected: 06/02/21 11:07

Matrix: Water

Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 17:54	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 17:54	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 17:54	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 17:54	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 17:54	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 17:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 17:54	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 17:54	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 17:54	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 17:54	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 17:54	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 17:54	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 17:54	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 17:54	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 17:54	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 17:54	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 17:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 17:54	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 17:54	1

Client Sample ID: MSA-SW42A-060221

Date Collected: 06/02/21 11:07
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-17

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	2.0	U	2.0	0.91	ug/L			06/13/21 17:54	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 17:54	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 17:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 17:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 17:54	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 17:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 17:54	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 17:54	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 17:54	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 17:54	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 17:54	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 17:54	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 17:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 17:54	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 17:54	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 17:54	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 17:54	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 17:54	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 17:54	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 17:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 17:54	1
m-Xylene & p-Xylene	**0.11**	**J**	2.0	0.080	ug/L			06/13/21 17:54	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 17:54	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 17:54	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 17:54	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 17:54	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 17:54	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 17:54	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 17:54	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 17:54	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 17:54	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 17:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 17:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 17:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 17:54	1
Toluene	**0.15**	**J**	1.0	0.14	ug/L			06/13/21 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 17:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 17:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 17:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 17:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 17:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 17:54	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 17:54	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 17:54	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 17:54	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 17:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 17:54	1

Client Sample ID: MSA-SW42A-060221

Lab Sample ID: 240-150601-17

Date Collected: 06/02/21 11:07
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 17:54	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 17:54	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 17:54	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*		*06/13/21 17:54*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 17:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*47 - 134*		*06/13/21 17:54*	*1*
Dibromofluoromethane (Surr)	*129*		*78 - 129*		*06/13/21 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 130*		*06/13/21 17:54*	*1*
Toluene-d8 (Surr)	*137*	*S1+*	*69 - 122*		*06/13/21 17:54*	*1*

Client Sample ID: MSA-SW42B-060221

Lab Sample ID: 240-150601-18

Date Collected: 06/02/21 11:11
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 18:17	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 18:17	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 18:17	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 18:17	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 18:17	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 18:17	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 18:17	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 18:17	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 18:17	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 18:17	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 18:17	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 18:17	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 18:17	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 18:17	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 18:17	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 18:17	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 18:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 18:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 18:17	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 18:17	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 18:17	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 18:17	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 18:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 18:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 18:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 18:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 18:17	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 18:17	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 18:17	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 18:17	1

Client Sample ID: MSA-SW42B-060221

Date Collected: 06/02/21 11:11
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-18

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			06/13/21 18:17	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 18:17	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 18:17	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 18:17	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 18:17	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 18:17	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 18:17	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 18:17	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 18:17	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 18:17	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 18:17	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 18:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 18:17	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 18:17	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 18:17	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 18:17	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 18:17	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 18:17	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 18:17	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 18:17	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 18:17	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 18:17	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 18:17	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 18:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 18:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 18:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 18:17	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 18:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 18:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 18:17	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 18:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 18:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 18:17	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 18:17	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 18:17	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 18:17	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 18:17	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 18:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 18:17	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 18:17	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 18:17	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 18:17	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*		*06/13/21 18:17*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 18:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*47 - 134*		*06/13/21 18:17*	*1*
Dibromofluoromethane (Surr)	*147*	*S1+*	*78 - 129*		*06/13/21 18:17*	*1*

Client Sample ID: MSA-SW42B-060221 Lab Sample ID: 240-150601-18

Date Collected: 06/02/21 11:11 **Matrix: Water**
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*135*	*S1+*	*75 - 130*		*06/13/21 18:17*	*1*
Toluene-d8 (Surr)	*148*	*S1+*	*69 - 122*		*06/13/21 18:17*	*1*

Client Sample ID: MSA-SW42C-060221 Lab Sample ID: 240-150601-19

Date Collected: 06/02/21 11:18 **Matrix: Water**
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 18:39	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 18:39	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 18:39	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 18:39	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 18:39	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 18:39	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 18:39	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 18:39	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 18:39	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 18:39	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 18:39	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 18:39	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 18:39	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 18:39	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 18:39	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 18:39	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 18:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 18:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 18:39	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 18:39	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 18:39	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 18:39	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 18:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 18:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 18:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 18:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 18:39	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 18:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 18:39	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 18:39	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 18:39	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 18:39	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 18:39	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 18:39	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 18:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 18:39	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 18:39	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 18:39	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 18:39	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 18:39	1

Client Sample ID: MSA-SW42C-060221

Lab Sample ID: 240-150601-19

Date Collected: 06/02/21 11:18
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 18:39	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 18:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 18:39	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 18:39	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 18:39	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 18:39	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 18:39	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 18:39	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 18:39	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 18:39	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 18:39	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 18:39	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 18:39	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 18:39	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 18:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 18:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 18:39	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 18:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 18:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 18:39	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 18:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 18:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 18:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 18:39	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 18:39	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 18:39	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 18:39	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 18:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 18:39	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 18:39	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 18:39	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 18:39	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*		*06/13/21 18:39*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 18:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*47 - 134*		*06/13/21 18:39*	*1*
Dibromofluoromethane (Surr)	*133*	*S1+*	*78 - 129*		*06/13/21 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 130*		*06/13/21 18:39*	*1*
Toluene-d8 (Surr)	*136*	*S1+*	*69 - 122*		*06/13/21 18:39*	*1*

Client Sample ID: MSA-SW42D-060221

Lab Sample ID: 240-150601-20

Date Collected: 06/02/21 11:24
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 19:02	1

Client Sample ID: MSA-SW42D-060221

Date Collected: 06/02/21 11:24
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-20

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			06/13/21 19:02	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 19:02	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 19:02	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 19:02	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 19:02	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 19:02	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 19:02	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 19:02	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 19:02	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:02	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 19:02	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 19:02	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 19:02	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 19:02	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 19:02	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 19:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 19:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 19:02	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 19:02	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 19:02	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 19:02	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 19:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 19:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 19:02	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 19:02	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 19:02	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 19:02	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 19:02	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 19:02	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 19:02	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 19:02	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 19:02	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 19:02	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 19:02	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 19:02	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 19:02	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 19:02	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 19:02	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 19:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 19:02	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 19:02	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 19:02	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:02	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:02	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 19:02	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 19:02	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 19:02	1

Client Sample ID: MSA-SW42D-060221

Lab Sample ID: 240-150601-20

Date Collected: 06/02/21 11:24
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 19:02	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 19:02	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 19:02	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 19:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 19:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 19:02	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 19:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 19:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 19:02	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 19:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 19:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 19:02	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 19:02	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 19:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 19:02	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 19:02	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 19:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 19:02	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 19:02	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 19:02	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 19:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*		*2.35*	*75-45-6*		*06/13/21 19:02*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 19:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*47 - 134*		*06/13/21 19:02*	*1*
Dibromofluoromethane (Surr)	*133*	*S1+*	*78 - 129*		*06/13/21 19:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 130*		*06/13/21 19:02*	*1*
Toluene-d8 (Surr)	*139*	*S1+*	*69 - 122*		*06/13/21 19:02*	*1*

Client Sample ID: MSA-SW43A-060221

Lab Sample ID: 240-150601-21

Date Collected: 06/02/21 09:32
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 19:25	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 19:25	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 19:25	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 19:25	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 19:25	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 19:25	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 19:25	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 19:25	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 19:25	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 19:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:25	1

Client Sample ID: MSA-SW43A-060221

Date Collected: 06/02/21 09:32
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-21

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			06/13/21 19:25	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 19:25	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 19:25	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 19:25	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 19:25	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 19:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 19:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 19:25	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 19:25	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 19:25	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 19:25	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 19:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 19:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 19:25	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 19:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 19:25	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 19:25	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 19:25	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 19:25	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 19:25	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 19:25	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 19:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 19:25	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 19:25	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 19:25	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 19:25	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 19:25	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 19:25	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 19:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 19:25	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 19:25	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 19:25	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:25	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:25	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 19:25	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 19:25	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 19:25	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 19:25	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 19:25	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 19:25	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 19:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 19:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 19:25	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 19:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 19:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 19:25	1

Client Sample ID: MSA-SW43A-060221

Lab Sample ID: 240-150601-21

Date Collected: 06/02/21 09:32
Matrix: Water
Date Received: 06/03/21 09:45

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			06/13/21 19:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 19:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 19:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 19:25	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 19:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 19:25	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 19:25	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 19:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 19:25	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 19:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 19:25	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 19:25	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*		*06/13/21 19:25*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 19:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*47 - 134*		*06/13/21 19:25*	*1*
Dibromofluoromethane (Surr)	*147*	*S1+*	*78 - 129*		*06/13/21 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*133*	*S1+*	*75 - 130*		*06/13/21 19:25*	*1*
Toluene-d8 (Surr)	*154*	*S1+*	*69 - 122*		*06/13/21 19:25*	*1*

Client Sample ID: MSA-SW43B-060221

Lab Sample ID: 240-150601-22

Date Collected: 06/02/21 09:36
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 19:47	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 19:47	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 19:47	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 19:47	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 19:47	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 19:47	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 19:47	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 19:47	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 19:47	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 19:47	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:47	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 19:47	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 19:47	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 19:47	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 19:47	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 19:47	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 19:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 19:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 19:47	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 19:47	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 19:47	1

Client Sample ID: MSA-SW43B-060221

Date Collected: 06/02/21 09:36
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-22

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			06/13/21 19:47	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 19:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 19:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 19:47	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 19:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 19:47	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 19:47	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 19:47	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 19:47	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 19:47	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 19:47	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 19:47	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 19:47	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 19:47	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 19:47	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 19:47	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 19:47	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 19:47	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 19:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 19:47	1
m-Xylene & p-Xylene	**0.098**	**J**	2.0	0.080	ug/L			06/13/21 19:47	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 19:47	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:47	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 19:47	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 19:47	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 19:47	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 19:47	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 19:47	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 19:47	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 19:47	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 19:47	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 19:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 19:47	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 19:47	1
Toluene	**0.16**	**J**	1.0	0.14	ug/L			06/13/21 19:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 19:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 19:47	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 19:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 19:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 19:47	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 19:47	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 19:47	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 19:47	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 19:47	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 19:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 19:47	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 19:47	1

Client Sample ID: MSA-SW43B-060221

Lab Sample ID: 240-150601-22

Date Collected: 06/02/21 09:36
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 19:47	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 19:47	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*		*06/13/21 19:47*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/13/21 19:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*47 - 134*		*06/13/21 19:47*	*1*
Dibromofluoromethane (Surr)	*135*	*S1+*	*78 - 129*		*06/13/21 19:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 130*		*06/13/21 19:47*	*1*
Toluene-d8 (Surr)	*136*	*S1+*	*69 - 122*		*06/13/21 19:47*	*1*

Client Sample ID: MSA-SW43C-060221

Lab Sample ID: 240-150601-23

Date Collected: 06/02/21 09:43
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 14:08	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 14:08	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 14:08	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 14:08	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 14:08	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 14:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 14:08	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 14:08	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 14:08	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 14:08	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:08	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 14:08	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 14:08	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 14:08	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 14:08	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 14:08	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 14:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 14:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 14:08	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 14:08	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 14:08	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 14:08	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 14:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 14:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 14:08	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 14:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 14:08	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 14:08	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 14:08	1

Client Sample ID: MSA-SW43C-060221

Date Collected: 06/02/21 09:43
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-23

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			06/14/21 14:08	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 14:08	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 14:08	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 14:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 14:08	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 14:08	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 14:08	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 14:08	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 14:08	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 14:08	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 14:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 14:08	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 14:08	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 14:08	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:08	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:08	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 14:08	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 14:08	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 14:08	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 14:08	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 14:08	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 14:08	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:08	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 14:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 14:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 14:08	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 14:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 14:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 14:08	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 14:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 14:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 14:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 14:08	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 14:08	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 14:08	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 14:08	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 14:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 14:08	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 14:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 14:08	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 14:08	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*		*06/14/21 14:08*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 14:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*		*06/14/21 14:08*	*1*
Dibromofluoromethane (Surr)	*99*		*78 - 129*		*06/14/21 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 130*		*06/14/21 14:08*	*1*

Client Sample ID: MSA-SW43C-060221

Lab Sample ID: 240-150601-23

Date Collected: 06/02/21 09:43
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*69 - 122*		*06/14/21 14:08*	*1*

Client Sample ID: MSA-43D-060221

Lab Sample ID: 240-150601-24

Date Collected: 06/02/21 09:46
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 14:32	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 14:32	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 14:32	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 14:32	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 14:32	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 14:32	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 14:32	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 14:32	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 14:32	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 14:32	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:32	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 14:32	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 14:32	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 14:32	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 14:32	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 14:32	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 14:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 14:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 14:32	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 14:32	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 14:32	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 14:32	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 14:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 14:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 14:32	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 14:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 14:32	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 14:32	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 14:32	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 14:32	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 14:32	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 14:32	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 14:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 14:32	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 14:32	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 14:32	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 14:32	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 14:32	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 14:32	1

Client Sample ID: MSA-43D-060221

Lab Sample ID: 240-150601-24

Date Collected: 06/02/21 09:46
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 14:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 14:32	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 14:32	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 14:32	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:32	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:32	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 14:32	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 14:32	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 14:32	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 14:32	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 14:32	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 14:32	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:32	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 14:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 14:32	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 14:32	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 14:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 14:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 14:32	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 14:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 14:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 14:32	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 14:32	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 14:32	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 14:32	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 14:32	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 14:32	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 14:32	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 14:32	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 14:32	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 14:32	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*		*06/14/21 14:32*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 14:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*06/14/21 14:32*	*1*
Dibromofluoromethane (Surr)	*98*		*78 - 129*		*06/14/21 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 130*		*06/14/21 14:32*	*1*
Toluene-d8 (Surr)	*97*		*69 - 122*		*06/14/21 14:32*	*1*

Client Sample ID: MSA-44A-060221

Lab Sample ID: 240-150601-25

Date Collected: 06/02/21 09:14
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 14:57	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 14:57	1

Client Sample ID: MSA-44A-060221

Date Collected: 06/02/21 09:14
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-25

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			06/14/21 14:57	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 14:57	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 14:57	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 14:57	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 14:57	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 14:57	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 14:57	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 14:57	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:57	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 14:57	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 14:57	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 14:57	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 14:57	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 14:57	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 14:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 14:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 14:57	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 14:57	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 14:57	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 14:57	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 14:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 14:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 14:57	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 14:57	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 14:57	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 14:57	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 14:57	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 14:57	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 14:57	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 14:57	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 14:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 14:57	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 14:57	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 14:57	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 14:57	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 14:57	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 14:57	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 14:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 14:57	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 14:57	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 14:57	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:57	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 14:57	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 14:57	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 14:57	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 14:57	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 14:57	1

Client Sample ID: MSA-44A-060221

Lab Sample ID: 240-150601-25

Date Collected: 06/02/21 09:14
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 14:57	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 14:57	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 14:57	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 14:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 14:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 14:57	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 14:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 14:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 14:57	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 14:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 14:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 14:57	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 14:57	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 14:57	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 14:57	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 14:57	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 14:57	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 14:57	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 14:57	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 14:57	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 14:57	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*		*06/14/21 14:57*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 14:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*06/14/21 14:57*	*1*
Dibromofluoromethane (Surr)	*101*		*78 - 129*		*06/14/21 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 130*		*06/14/21 14:57*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*06/14/21 14:57*	*1*

Client Sample ID: MSA-44B-060221

Lab Sample ID: 240-150601-26

Date Collected: 06/02/21 09:17
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 15:22	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 15:22	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 15:22	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 15:22	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 15:22	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 15:22	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 15:22	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 15:22	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 15:22	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 15:22	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 15:22	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 15:22	1

Client Sample ID: MSA-44B-060221

Date Collected: 06/02/21 09:17
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-26

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			06/14/21 15:22	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 15:22	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 15:22	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 15:22	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 15:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 15:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 15:22	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 15:22	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 15:22	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 15:22	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 15:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 15:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 15:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 15:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 15:22	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 15:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 15:22	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 15:22	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 15:22	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 15:22	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 15:22	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 15:22	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 15:22	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 15:22	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 15:22	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 15:22	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 15:22	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 15:22	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 15:22	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 15:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 15:22	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 15:22	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 15:22	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 15:22	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 15:22	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 15:22	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 15:22	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 15:22	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 15:22	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 15:22	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 15:22	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 15:22	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 15:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 15:22	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 15:22	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 15:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 15:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 15:22	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 15:22	1

Client Sample ID: MSA-44B-060221

Lab Sample ID: 240-150601-26

Date Collected: 06/02/21 09:17
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 15:22	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 15:22	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 15:22	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 15:22	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 15:22	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 15:22	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 15:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 15:22	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 15:22	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 15:22	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 15:22	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*		*06/14/21 15:22*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 15:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*06/14/21 15:22*	*1*
Dibromofluoromethane (Surr)	*101*		*78 - 129*		*06/14/21 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 130*		*06/14/21 15:22*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*06/14/21 15:22*	*1*

Client Sample ID: MSA-44C-060221

Lab Sample ID: 240-150601-27

Date Collected: 06/02/21 09:22
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 15:46	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 15:46	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 15:46	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 15:46	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 15:46	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 15:46	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 15:46	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 15:46	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 15:46	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 15:46	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 15:46	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 15:46	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 15:46	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 15:46	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 15:46	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 15:46	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 15:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 15:46	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 15:46	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 15:46	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 15:46	1

Client Sample ID: MSA-44C-060221

Date Collected: 06/02/21 09:22
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-27

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			06/14/21 15:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 15:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 15:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 15:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 15:46	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 15:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 15:46	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 15:46	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 15:46	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 15:46	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 15:46	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 15:46	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 15:46	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 15:46	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 15:46	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 15:46	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 15:46	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 15:46	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 15:46	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 15:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 15:46	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 15:46	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 15:46	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 15:46	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 15:46	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 15:46	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 15:46	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 15:46	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 15:46	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 15:46	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 15:46	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 15:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 15:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 15:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 15:46	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 15:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 15:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 15:46	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 15:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 15:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 15:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 15:46	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 15:46	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 15:46	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 15:46	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 15:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 15:46	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 15:46	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 15:46	1

Client Sample ID: MSA-44C-060221

Lab Sample ID: 240-150601-27

Date Collected: 06/02/21 09:22
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 15:46	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*		*06/14/21 15:46*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 15:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*06/14/21 15:46*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*06/14/21 15:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 130*		*06/14/21 15:46*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*06/14/21 15:46*	*1*

Client Sample ID: MSA-44D-060221

Lab Sample ID: 240-150601-28

Date Collected: 06/02/21 09:27
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 16:11	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 16:11	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 16:11	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 16:11	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 16:11	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 16:11	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 16:11	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 16:11	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 16:11	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 16:11	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 16:11	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 16:11	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 16:11	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 16:11	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 16:11	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 16:11	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 16:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 16:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 16:11	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 16:11	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 16:11	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 16:11	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 16:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 16:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 16:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 16:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 16:11	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 16:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 16:11	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 16:11	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 16:11	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 16:11	1

Client Sample ID: MSA-44D-060221

Date Collected: 06/02/21 09:27
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-28

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			06/14/21 16:11	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 16:11	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 16:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 16:11	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 16:11	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 16:11	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 16:11	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 16:11	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 16:11	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 16:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 16:11	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 16:11	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 16:11	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 16:11	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 16:11	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 16:11	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 16:11	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 16:11	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 16:11	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 16:11	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 16:11	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 16:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 16:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 16:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 16:11	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 16:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 16:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 16:11	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 16:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 16:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 16:11	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 16:11	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 16:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 16:11	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 16:11	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 16:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 16:11	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 16:11	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 16:11	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 16:11	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*		*06/14/21 16:11*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 16:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*06/14/21 16:11*	*1*
Dibromofluoromethane (Surr)	*101*		*78 - 129*		*06/14/21 16:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 130*		*06/14/21 16:11*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*06/14/21 16:11*	*1*

Client Sample ID: TB-060221

Date Collected: 06/02/21 00:00
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-29

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 16:35	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 16:35	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 16:35	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 16:35	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 16:35	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 16:35	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 16:35	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 16:35	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 16:35	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 16:35	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 16:35	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 16:35	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 16:35	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 16:35	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 16:35	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 16:35	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 16:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 16:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 16:35	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 16:35	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 16:35	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 16:35	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 16:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 16:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 16:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 16:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 16:35	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 16:35	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 16:35	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 16:35	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 16:35	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 16:35	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 16:35	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 16:35	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 16:35	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 16:35	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 16:35	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 16:35	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 16:35	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 16:35	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 16:35	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 16:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 16:35	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 16:35	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 16:35	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 16:35	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 16:35	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 16:35	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 16:35	1

Client Sample ID: TB-060221

Lab Sample ID: 240-150601-29

Date Collected: 06/02/21 00:00
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 16:35	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 16:35	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 16:35	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 16:35	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 16:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 16:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 16:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 16:35	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 16:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 16:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 16:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 16:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 16:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 16:35	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 16:35	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 16:35	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 16:35	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 16:35	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 16:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 16:35	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 16:35	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 16:35	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 16:35	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*		*06/14/21 16:35*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 16:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*		*06/14/21 16:35*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*06/14/21 16:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 130*		*06/14/21 16:35*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*06/14/21 16:35*	*1*

Client Sample ID: MSA-SW46A-060221

Lab Sample ID: 240-150601-30

Date Collected: 06/02/21 11:02
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 17:00	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 17:00	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 17:00	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 17:00	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 17:00	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 17:00	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 17:00	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 17:00	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 17:00	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 17:00	1

Client Sample ID: MSA-SW46A-060221

Date Collected: 06/02/21 11:02
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-30

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			06/14/21 17:00	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 17:00	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 17:00	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 17:00	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 17:00	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 17:00	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 17:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 17:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 17:00	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 17:00	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 17:00	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 17:00	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 17:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 17:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 17:00	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 17:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 17:00	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 17:00	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 17:00	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 17:00	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 17:00	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 17:00	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 17:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 17:00	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 17:00	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 17:00	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 17:00	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 17:00	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 17:00	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 17:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 17:00	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 17:00	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 17:00	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 17:00	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:00	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 17:00	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 17:00	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 17:00	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 17:00	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 17:00	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 17:00	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 17:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 17:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 17:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 17:00	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 17:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 17:00	1

Client Sample ID: MSA-SW46A-060221

Lab Sample ID: 240-150601-30

Date Collected: 06/02/21 11:02
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 17:00	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 17:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 17:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 17:00	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 17:00	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 17:00	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 17:00	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 17:00	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 17:00	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 17:00	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 17:00	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 17:00	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 17:00	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*		*06/14/21 17:00*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 17:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*06/14/21 17:00*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*06/14/21 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 130*		*06/14/21 17:00*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*06/14/21 17:00*	*1*

Client Sample ID: MSA-SW47A-060221

Lab Sample ID: 240-150601-31

Date Collected: 06/02/21 10:43
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 17:25	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 17:25	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 17:25	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 17:25	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 17:25	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 17:25	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 17:25	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 17:25	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 17:25	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 17:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 17:25	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 17:25	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 17:25	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 17:25	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 17:25	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 17:25	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 17:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 17:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 17:25	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 17:25	1

Client Sample ID: MSA-SW47A-060221

Date Collected: 06/02/21 10:43
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-31

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	2.0	U	2.0	0.91	ug/L			06/14/21 17:25	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 17:25	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 17:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 17:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 17:25	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 17:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 17:25	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 17:25	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 17:25	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 17:25	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 17:25	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 17:25	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 17:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 17:25	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 17:25	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 17:25	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 17:25	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 17:25	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 17:25	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 17:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 17:25	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 17:25	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 17:25	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 17:25	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:25	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 17:25	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 17:25	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 17:25	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 17:25	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 17:25	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 17:25	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 17:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 17:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 17:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 17:25	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 17:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 17:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 17:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 17:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 17:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 17:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 17:25	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 17:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 17:25	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 17:25	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 17:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 17:25	1

Client Sample ID: MSA-SW47A-060221

Lab Sample ID: 240-150601-31

Date Collected: 06/02/21 10:43
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 17:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 17:25	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 17:25	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*		*06/14/21 17:25*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 17:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*		*06/14/21 17:25*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*06/14/21 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 130*		*06/14/21 17:25*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*06/14/21 17:25*	*1*

Client Sample ID: MSA-SW48A-060221

Lab Sample ID: 240-150601-32

Date Collected: 06/02/21 10:16
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 17:49	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 17:49	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 17:49	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 17:49	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 17:49	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 17:49	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 17:49	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 17:49	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 17:49	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 17:49	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 17:49	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 17:49	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 17:49	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 17:49	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 17:49	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 17:49	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 17:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 17:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 17:49	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 17:49	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 17:49	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 17:49	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 17:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 17:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 17:49	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 17:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 17:49	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 17:49	1

Client Sample ID: MSA-SW48A-060221

Date Collected: 06/02/21 10:16
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-32

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			06/14/21 17:49	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 17:49	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 17:49	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 17:49	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 17:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 17:49	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 17:49	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 17:49	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 17:49	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 17:49	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 17:49	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 17:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 17:49	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 17:49	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 17:49	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 17:49	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 17:49	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 17:49	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 17:49	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 17:49	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 17:49	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 17:49	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 17:49	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 17:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 17:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 17:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 17:49	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 17:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 17:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 17:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 17:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 17:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 17:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 17:49	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 17:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 17:49	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 17:49	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 17:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 17:49	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 17:49	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 17:49	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 17:49	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*		*06/14/21 17:49*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 17:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*		*06/14/21 17:49*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*06/14/21 17:49*	*1*

Client Sample ID: MSA-SW48A-060221

Lab Sample ID: 240-150601-32

Date Collected: 06/02/21 10:16
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 130*		*06/14/21 17:49*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*06/14/21 17:49*	*1*

Client Sample ID: MSA-SW49A-060221

Lab Sample ID: 240-150601-33

Date Collected: 06/02/21 09:52
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 18:14	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 18:14	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 18:14	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 18:14	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 18:14	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 18:14	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 18:14	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 18:14	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 18:14	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 18:14	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 18:14	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 18:14	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 18:14	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 18:14	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 18:14	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 18:14	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 18:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 18:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 18:14	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 18:14	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 18:14	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 18:14	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 18:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 18:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 18:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 18:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 18:14	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 18:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 18:14	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 18:14	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 18:14	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 18:14	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 18:14	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 18:14	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 18:14	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 18:14	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 18:14	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 18:14	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 18:14	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 18:14	1

Client Sample ID: MSA-SW49A-060221

Lab Sample ID: 240-150601-33

Date Collected: 06/02/21 09:52
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 18:14	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 18:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 18:14	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 18:14	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 18:14	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 18:14	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 18:14	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 18:14	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 18:14	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 18:14	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 18:14	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 18:14	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 18:14	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 18:14	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 18:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 18:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 18:14	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 18:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 18:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 18:14	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 18:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 18:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 18:14	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 18:14	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 18:14	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 18:14	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 18:14	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 18:14	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 18:14	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 18:14	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 18:14	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 18:14	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*		*06/14/21 18:14*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 18:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*06/14/21 18:14*	*1*
Dibromofluoromethane (Surr)	*101*		*78 - 129*		*06/14/21 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 130*		*06/14/21 18:14*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*06/14/21 18:14*	*1*

Client Sample ID: EL-SW01A-060221

Lab Sample ID: 240-150601-34

Date Collected: 06/02/21 08:17
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 18:38	1

Client Sample ID: EL-SW01A-060221

Date Collected: 06/02/21 08:17
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-34

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			06/14/21 18:38	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 18:38	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 18:38	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 18:38	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 18:38	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 18:38	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 18:38	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 18:38	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 18:38	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 18:38	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 18:38	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 18:38	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 18:38	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 18:38	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 18:38	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 18:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 18:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 18:38	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 18:38	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 18:38	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 18:38	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 18:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 18:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 18:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 18:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 18:38	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 18:38	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 18:38	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 18:38	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 18:38	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 18:38	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 18:38	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 18:38	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 18:38	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 18:38	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 18:38	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 18:38	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 18:38	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 18:38	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 18:38	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 18:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 18:38	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 18:38	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 18:38	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 18:38	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 18:38	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 18:38	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 18:38	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 18:38	1

Client Sample ID: EL-SW01A-060221

Lab Sample ID: 240-150601-34

Date Collected: 06/02/21 08:17
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 18:38	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 18:38	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 18:38	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 18:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 18:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 18:38	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 18:38	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 18:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 18:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 18:38	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 18:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 18:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 18:38	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 18:38	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 18:38	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 18:38	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 18:38	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 18:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 18:38	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 18:38	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 18:38	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 18:38	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*		*06/14/21 18:38*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 18:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*06/14/21 18:38*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*06/14/21 18:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 130*		*06/14/21 18:38*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*06/14/21 18:38*	*1*

Client Sample ID: EL-SW01B-060221

Lab Sample ID: 240-150601-35

Date Collected: 06/02/21 08:53
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 19:03	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 19:03	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 19:03	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 19:03	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 19:03	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 19:03	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 19:03	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 19:03	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 19:03	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 19:03	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:03	1

Client Sample ID: EL-SW01B-060221

Date Collected: 06/02/21 08:53
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-35

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			06/14/21 19:03	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 19:03	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 19:03	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 19:03	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 19:03	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 19:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 19:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 19:03	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 19:03	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 19:03	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 19:03	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 19:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 19:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 19:03	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 19:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 19:03	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 19:03	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 19:03	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 19:03	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 19:03	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 19:03	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 19:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 19:03	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 19:03	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 19:03	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 19:03	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 19:03	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 19:03	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 19:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 19:03	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 19:03	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 19:03	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:03	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:03	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 19:03	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 19:03	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 19:03	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 19:03	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 19:03	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 19:03	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 19:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 19:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 19:03	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 19:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 19:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 19:03	1

Client Sample ID: EL-SW01B-060221

Lab Sample ID: 240-150601-35

Date Collected: 06/02/21 08:53
Matrix: Water
Date Received: 06/03/21 09:45

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			06/14/21 19:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 19:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 19:03	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 19:03	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 19:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 19:03	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 19:03	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 19:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 19:03	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 19:03	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 19:03	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 19:03	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*		*06/14/21 19:03*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 19:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*06/14/21 19:03*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*06/14/21 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 130*		*06/14/21 19:03*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*06/14/21 19:03*	*1*

Client Sample ID: EL-SW01C-060221

Lab Sample ID: 240-150601-36

Date Collected: 06/02/21 08:57
Matrix: Water
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 19:27	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 19:27	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 19:27	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 19:27	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 19:27	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 19:27	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 19:27	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 19:27	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 19:27	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 19:27	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:27	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 19:27	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 19:27	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 19:27	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 19:27	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 19:27	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 19:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 19:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 19:27	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 19:27	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 19:27	1

Client Sample ID: EL-SW01C-060221

Date Collected: 06/02/21 08:57
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-36

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			06/14/21 19:27	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 19:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 19:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 19:27	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 19:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 19:27	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 19:27	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 19:27	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 19:27	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 19:27	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 19:27	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 19:27	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 19:27	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 19:27	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 19:27	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 19:27	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 19:27	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 19:27	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 19:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 19:27	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 19:27	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 19:27	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:27	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:27	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 19:27	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 19:27	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 19:27	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 19:27	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 19:27	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 19:27	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:27	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 19:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 19:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 19:27	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 19:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 19:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 19:27	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 19:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 19:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 19:27	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 19:27	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 19:27	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 19:27	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 19:27	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 19:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 19:27	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 19:27	1

Client Sample ID: EL-SW01C-060221 Lab Sample ID: 240-150601-36

Date Collected: 06/02/21 08:57 **Matrix: Water**
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 19:27	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 19:27	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*		*06/14/21 19:27*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 19:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*06/14/21 19:27*	*1*
Dibromofluoromethane (Surr)	*99*		*78 - 129*		*06/14/21 19:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 130*		*06/14/21 19:27*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*06/14/21 19:27*	*1*

Client Sample ID: EL-SW01D-060221 Lab Sample ID: 240-150601-37

Date Collected: 06/02/21 09:03 **Matrix: Water**
Date Received: 06/03/21 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 19:52	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 19:52	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 19:52	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 19:52	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 19:52	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 19:52	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 19:52	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 19:52	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 19:52	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 19:52	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:52	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 19:52	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 19:52	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 19:52	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 19:52	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 19:52	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 19:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 19:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 19:52	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 19:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 19:52	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 19:52	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 19:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 19:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 19:52	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 19:52	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 19:52	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 19:52	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 19:52	1

Client Sample ID: EL-SW01D-060221

Date Collected: 06/02/21 09:03
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-37

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			06/14/21 19:52	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 19:52	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 19:52	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 19:52	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 19:52	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 19:52	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 19:52	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 19:52	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 19:52	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 19:52	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 19:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 19:52	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 19:52	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 19:52	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:52	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 19:52	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 19:52	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 19:52	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 19:52	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 19:52	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 19:52	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 19:52	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 19:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 19:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 19:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 19:52	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 19:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 19:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 19:52	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 19:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 19:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 19:52	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 19:52	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 19:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 19:52	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 19:52	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 19:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 19:52	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 19:52	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 19:52	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 19:52	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*		*06/14/21 19:52*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*06/14/21 19:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*06/14/21 19:52*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*06/14/21 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 130*		*06/14/21 19:52*	*1*

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-150601-1
SDG: MSA Frog Mortar Creek

Client Sample ID: EL-SW01D-060221
Date Collected: 06/02/21 09:03
Date Received: 06/03/21 09:45

Lab Sample ID: 240-150601-37
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		69 - 122		06/14/21 19:52	1

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	2.0	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	10	1.2	ug/L
2-Chloroethyl vinyl ether	10	0.26	ug/L
2-Chlorotoluene	1.0	0.15	ug/L
2-Hexanone	10	0.54	ug/L
4-Chlorotoluene	1.0	0.090	ug/L
4-Methyl-2-pentanone	10	0.42	ug/L
Acetone	10	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	10	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: 240-150601-1
SDG: MSA Frog Mortar Creek

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	40	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	1.0	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: 240-150601-1
SDG: MSA Frog Mortar Creek

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)
240-150571-B-1 MS	Matrix Spike	106	100	89	98
240-150571-B-1 MSD	Matrix Spike Duplicate	104	95	87	97
240-150601-1	MSA-SW37A-060221	106	99	90	98
240-150601-2	MSA-SW37B-060221	105	99	90	98
240-150601-3	MSA-SW37C-060221	93	97	89	101
240-150601-4	MSA-SW37D-060221	104	104	99	110
240-150601-5	MSA-SW38A-060221	104	105	100	108
240-150601-6	MSA-SW38B-060221	100	103	96	106
240-150601-7	MSA-SW38C-060221	106	109	101	113
240-150601-8	MSA-SW38D-060221	115	113	107	121
240-150601-9	MSA-SW40A-060221	110	110	104	116
240-150601-10	MSA-SW40B-060221	114	119	109	122
240-150601-11	MSA-SW40C-060221	118	121	111	126 S1+
240-150601-12	MSA-SW40D-060221	115	117	108	123 S1+
240-150601-13	MSA-SW41A-060221	126	129	119	134 S1+
240-150601-14	MSA-SW41B-060221	131	133 S1+	123	140 S1+
240-150601-15	MSA-SW41C-060221	125	129	119	134 S1+
240-150601-16	MSA-SW41D-060221	123	127	118	130 S1+
240-150601-17	MSA-SW42A-060221	128	129	120	137 S1+
240-150601-18	MSA-SW42B-060221	142 S1+	147 S1+	135 S1+	148 S1+
240-150601-19	MSA-SW42C-060221	127	133 S1+	123	136 S1+
240-150601-20	MSA-SW42D-060221	130	133 S1+	123	139 S1+
240-150601-21	MSA-SW43A-060221	146 S1+	147 S1+	133 S1+	154 S1+
240-150601-22	MSA-SW43B-060221	130	135 S1+	122	136 S1+
240-150601-23	MSA-SW43C-060221	100	99	88	96
240-150601-24	MSA-43D-060221	102	98	87	97
240-150601-25	MSA-44A-060221	101	101	88	95
240-150601-26	MSA-44B-060221	102	101	88	95
240-150601-27	MSA-44C-060221	104	102	88	95
240-150601-28	MSA-44D-060221	101	101	88	94
240-150601-29	TB-060221	103	100	90	95
240-150601-30	MSA-SW46A-060221	101	100	88	96
240-150601-31	MSA-SW47A-060221	103	100	89	95
240-150601-32	MSA-SW48A-060221	103	102	88	96
240-150601-33	MSA-SW49A-060221	102	101	89	96
240-150601-34	EL-SW01A-060221	104	102	89	95
240-150601-35	EL-SW01B-060221	102	100	87	94
240-150601-36	EL-SW01C-060221	102	99	88	96
240-150601-37	EL-SW01D-060221	104	103	89	96
240-150799-B-2 MS	Matrix Spike	101	95	86	93
240-150799-B-2 MSD	Matrix Spike Duplicate	100	96	86	95
LCS 240-489711/5	Lab Control Sample	104	98	86	96
LCS 240-490350/6	Lab Control Sample	104	102	93	104
LCS 240-490456/5	Lab Control Sample	101	92	84	96
LCSD 240-490350/10	Lab Control Sample Dup	95	96	92	95
MB 240-489711/8	Method Blank	105	100	84	97
MB 240-490350/9	Method Blank	102	105	99	106
MB 240-490456/8	Method Blank	102	102	89	95

Surrogate Legend

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-150601-1
SDG: MSA Frog Mortar Creek

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 240-489711/8
Matrix: Water
Analysis Batch: 489711

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/09/21 10:54	1
Benzene	1.0	U	1.0	0.13	ug/L			06/09/21 10:54	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/09/21 10:54	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/09/21 10:54	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/09/21 10:54	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/09/21 10:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/09/21 10:54	1
2-Butanone	10	U	10	1.2	ug/L			06/09/21 10:54	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/09/21 10:54	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/09/21 10:54	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/09/21 10:54	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/09/21 10:54	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/09/21 10:54	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/09/21 10:54	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/09/21 10:54	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/09/21 10:54	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/09/21 10:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/09/21 10:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/09/21 10:54	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/09/21 10:54	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/09/21 10:54	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/09/21 10:54	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/09/21 10:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/09/21 10:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/09/21 10:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/09/21 10:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/09/21 10:54	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/09/21 10:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/09/21 10:54	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/09/21 10:54	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/09/21 10:54	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/09/21 10:54	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/09/21 10:54	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/09/21 10:54	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/09/21 10:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/09/21 10:54	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/09/21 10:54	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/09/21 10:54	1
2-Hexanone	10	U	10	0.54	ug/L			06/09/21 10:54	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/09/21 10:54	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/09/21 10:54	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/09/21 10:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/09/21 10:54	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/09/21 10:54	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/09/21 10:54	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/09/21 10:54	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/09/21 10:54	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/09/21 10:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-489711/8
Matrix: Water
Analysis Batch: 489711

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			06/09/21 10:54	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/09/21 10:54	1
Styrene	1.0	U	1.0	0.10	ug/L			06/09/21 10:54	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/09/21 10:54	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/09/21 10:54	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/09/21 10:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/09/21 10:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/09/21 10:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/09/21 10:54	1
Toluene	1.0	U	1.0	0.14	ug/L			06/09/21 10:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/09/21 10:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/09/21 10:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/09/21 10:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/09/21 10:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/09/21 10:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/09/21 10:54	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/09/21 10:54	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/09/21 10:54	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/09/21 10:54	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/09/21 10:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/09/21 10:54	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/09/21 10:54	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/09/21 10:54	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/09/21 10:54	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.21*	*T J*	*ug/L*		*1.54*			*06/09/21 10:54*	*1*
Iodomethane	*0.233*	*J*	*ug/L*		*3.39*	*74-88-4*		*06/09/21 10:54*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*06/09/21 10:54*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*06/09/21 10:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 130*		*06/09/21 10:54*	*1*
Toluene-d8 (Surr)	*97*		*69 - 122*		*06/09/21 10:54*	*1*

Lab Sample ID: LCS 240-489711/5
Matrix: Water
Analysis Batch: 489711

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	18.6		ug/L		93	77 - 123
Bromobenzene	20.0	19.5		ug/L		98	77 - 120
Bromochloromethane	20.0	19.8		ug/L		99	70 - 128
Bromodichloromethane	20.0	17.0		ug/L		85	73 - 122
Bromoform	20.0	15.3		ug/L		76	47 - 133
Bromomethane	20.0	9.76		ug/L		49	48 - 144
2-Butanone	40.0	38.1		ug/L		95	41 - 151

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-489711/5
Matrix: Water
Analysis Batch: 489711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	18.7		ug/L		94	67 - 127
Carbon tetrachloride	20.0	17.6		ug/L		88	61 - 142
Chlorobenzene	20.0	19.2		ug/L		96	80 - 120
Chloroethane	20.0	18.4		ug/L		92	41 - 147
2-Chloroethyl vinyl ether	20.0	6.04	J	ug/L		30	29 - 146
Chloroform	20.0	18.8		ug/L		94	74 - 127
Chloromethane	20.0	14.2		ug/L		71	46 - 148
2-Chlorotoluene	20.0	20.1		ug/L		101	73 - 126
4-Chlorotoluene	20.0	20.5		ug/L		102	73 - 126
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	75 - 124
cis-1,3-Dichloropropene	20.0	16.8		ug/L		84	68 - 128
Dibromochloromethane	20.0	15.8		ug/L		79	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	16.6		ug/L		83	34 - 136
1,2-Dibromoethane	20.0	17.8		ug/L		89	73 - 120
Dibromomethane	20.0	18.1		ug/L		90	67 - 121
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	74 - 120
1,3-Dichlorobenzene	20.0	19.7		ug/L		98	74 - 120
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	75 - 120
Dichlorodifluoromethane	20.0	15.6		ug/L		78	35 - 137
1,1-Dichloroethane	20.0	18.1		ug/L		91	74 - 126
1,2-Dichloroethane	20.0	17.0		ug/L		85	66 - 129
1,1-Dichloroethene	20.0	20.6		ug/L		103	73 - 129
1,2-Dichloropropane	20.0	18.5		ug/L		92	79 - 127
1,3-Dichloropropane	20.0	17.1		ug/L		85	74 - 122
2,2-Dichloropropane	20.0	13.5		ug/L		68	67 - 137
1,1-Dichloropropene	20.0	17.9		ug/L		89	78 - 120
Ethylbenzene	20.0	19.4		ug/L		97	80 - 120
Hexachlorobutadiene	20.0	21.4		ug/L		107	40 - 120
2-Hexanone	40.0	32.1		ug/L		80	43 - 142
Isopropylbenzene	20.0	19.8		ug/L		99	73 - 123
Methylene Chloride	20.0	19.8		ug/L		99	63 - 134
4-Methyl-2-pentanone	40.0	31.2		ug/L		78	43 - 145
Methyl tert-butyl ether	20.0	15.0		ug/L		75	57 - 127
m-Xylene & p-Xylene	20.0	19.9		ug/L		99	79 - 121
Naphthalene	20.0	19.2		ug/L		96	28 - 130
n-Butylbenzene	20.0	19.7		ug/L		98	54 - 129
n-Propylbenzene	20.0	20.2		ug/L		101	67 - 130
o-Xylene	20.0	20.1		ug/L		101	75 - 123
p-Isopropyltoluene	20.0	19.9		ug/L		99	66 - 127
sec-Butylbenzene	20.0	19.9		ug/L		99	60 - 131
Styrene	20.0	21.4		ug/L		107	75 - 121
tert-Butyl alcohol	200	82.6		ug/L		41	15 - 169
tert-Butylbenzene	20.0	19.8		ug/L		99	63 - 126
1,1,1,2-Tetrachloroethane	20.0	17.4		ug/L		87	77 - 120
1,1,2,2-Tetrachloroethane	20.0	17.3		ug/L		86	45 - 151
Tetrachloroethene	20.0	19.1		ug/L		95	70 - 125
Toluene	20.0	18.9		ug/L		94	79 - 122
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	74 - 130
trans-1,3-Dichloropropene	20.0	14.9		ug/L		74	64 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-489711/5
Matrix: Water
Analysis Batch: 489711

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-Trichlorobenzene			20.0	19.4		ug/L		97	42 - 126		
1,2,4-Trichlorobenzene			20.0	19.6		ug/L		98	47 - 120		
1,1,1-Trichloroethane			20.0	17.8		ug/L		89	65 - 141		
Trichloroethene			20.0	18.6		ug/L		93	71 - 121		
Trichlorofluoromethane			20.0	18.2		ug/L		91	52 - 148		
1,2,3-Trichloropropane			20.0	16.8		ug/L		84	57 - 137		
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	19.6		ug/L		98	54 - 148		
1,2,4-Trimethylbenzene			20.0	19.7		ug/L		98	66 - 129		
Vinyl acetate			20.0	17.2		ug/L		86	44 - 160		
Vinyl chloride			20.0	15.0		ug/L		75	61 - 134		
Xylenes, Total			40.0	40.0		ug/L		100	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*
Dibromofluoromethane (Surr)	*98*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 130*
Toluene-d8 (Surr)	*96*		*69 - 122*

Lab Sample ID: MB 240-490350/9
Matrix: Water
Analysis Batch: 490350

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/13/21 11:53	1
Benzene	1.0	U	1.0	0.13	ug/L			06/13/21 11:53	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/13/21 11:53	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/13/21 11:53	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/13/21 11:53	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/13/21 11:53	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/13/21 11:53	1
2-Butanone	10	U	10	1.2	ug/L			06/13/21 11:53	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/13/21 11:53	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/13/21 11:53	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/13/21 11:53	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/13/21 11:53	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/13/21 11:53	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/13/21 11:53	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/13/21 11:53	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/13/21 11:53	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/13/21 11:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/13/21 11:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/13/21 11:53	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/13/21 11:53	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/13/21 11:53	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/13/21 11:53	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/13/21 11:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 11:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/13/21 11:53	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-490350/9
Matrix: Water
Analysis Batch: 490350

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/13/21 11:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/13/21 11:53	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/13/21 11:53	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/13/21 11:53	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 11:53	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/13/21 11:53	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/13/21 11:53	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/13/21 11:53	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/13/21 11:53	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/13/21 11:53	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/13/21 11:53	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/13/21 11:53	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/13/21 11:53	1
2-Hexanone	10	U	10	0.54	ug/L			06/13/21 11:53	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/13/21 11:53	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/13/21 11:53	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/13/21 11:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/13/21 11:53	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/13/21 11:53	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/13/21 11:53	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 11:53	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/13/21 11:53	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/13/21 11:53	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/13/21 11:53	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/13/21 11:53	1
Styrene	1.0	U	1.0	0.10	ug/L			06/13/21 11:53	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/13/21 11:53	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/13/21 11:53	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/13/21 11:53	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/13/21 11:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/13/21 11:53	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/13/21 11:53	1
Toluene	1.0	U	1.0	0.14	ug/L			06/13/21 11:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/13/21 11:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/13/21 11:53	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/13/21 11:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/13/21 11:53	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/13/21 11:53	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/13/21 11:53	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/13/21 11:53	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/13/21 11:53	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/13/21 11:53	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/13/21 11:53	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/13/21 11:53	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/13/21 11:53	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/13/21 11:53	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/13/21 11:53	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-490350/9
Matrix: Water
Analysis Batch: 490350

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					06/13/21 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		47 - 134		06/13/21 11:53	1
Dibromofluoromethane (Surr)	105		78 - 129		06/13/21 11:53	1
1,2-Dichloroethane-d4 (Surr)	99		75 - 130		06/13/21 11:53	1
Toluene-d8 (Surr)	106		69 - 122		06/13/21 11:53	1

Lab Sample ID: LCS 240-490350/6
Matrix: Water
Analysis Batch: 490350

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	36.1		ug/L		90	33 - 155
Benzene	20.0	19.1		ug/L		96	77 - 123
Bromobenzene	20.0	19.2		ug/L		96	77 - 120
Bromochloromethane	20.0	18.2		ug/L		91	70 - 128
Bromodichloromethane	20.0	19.1		ug/L		96	73 - 122
Bromoform	20.0	19.4		ug/L		97	47 - 133
Bromomethane	20.0	20.0		ug/L		100	48 - 144
2-Butanone	40.0	37.8		ug/L		94	41 - 151
Carbon disulfide	20.0	19.6		ug/L		98	67 - 127
Carbon tetrachloride	20.0	19.4		ug/L		97	61 - 142
Chlorobenzene	20.0	19.3		ug/L		97	80 - 120
Chloroethane	20.0	21.3		ug/L		107	41 - 147
2-Chloroethyl vinyl ether	20.0	19.0		ug/L		95	29 - 146
Chloroform	20.0	19.2		ug/L		96	74 - 127
Chloromethane	20.0	20.5		ug/L		103	46 - 148
2-Chlorotoluene	20.0	19.4		ug/L		97	73 - 126
4-Chlorotoluene	20.0	19.5		ug/L		98	73 - 126
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	75 - 124
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	68 - 128
Dibromochloromethane	20.0	19.4		ug/L		97	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		96	34 - 136
1,2-Dibromoethane	20.0	19.2		ug/L		96	73 - 120
Dibromomethane	20.0	18.6		ug/L		93	67 - 121
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	74 - 120
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	74 - 120
1,4-Dichlorobenzene	20.0	19.3		ug/L		96	75 - 120
Dichlorodifluoromethane	20.0	21.3		ug/L		107	35 - 137
1,1-Dichloroethane	20.0	18.9		ug/L		94	74 - 126
1,2-Dichloroethane	20.0	18.8		ug/L		94	66 - 129
1,1-Dichloroethene	20.0	20.6		ug/L		103	73 - 129
1,2-Dichloropropane	20.0	19.3		ug/L		97	79 - 127
1,3-Dichloropropane	20.0	18.6		ug/L		93	74 - 122
2,2-Dichloropropane	20.0	19.7		ug/L		99	67 - 137
1,1-Dichloropropene	20.0	19.3		ug/L		97	78 - 120
Ethylbenzene	20.0	19.8		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-490350/6
Matrix: Water
Analysis Batch: 490350

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	21.0		ug/L		105	40 - 120		
2-Hexanone			40.0	34.7		ug/L		87	43 - 142		
Isopropylbenzene			20.0	19.7		ug/L		99	73 - 123		
Methylene Chloride			20.0	18.8		ug/L		94	63 - 134		
4-Methyl-2-pentanone			40.0	36.7		ug/L		92	43 - 145		
Methyl tert-butyl ether			20.0	18.9		ug/L		95	57 - 127		
m-Xylene & p-Xylene			20.0	19.6		ug/L		98	79 - 121		
Naphthalene			20.0	18.6		ug/L		93	28 - 130		
n-Butylbenzene			20.0	19.8		ug/L		99	54 - 129		
n-Propylbenzene			20.0	19.5		ug/L		98	67 - 130		
o-Xylene			20.0	19.6		ug/L		98	75 - 123		
p-Isopropyltoluene			20.0	20.0		ug/L		100	66 - 127		
sec-Butylbenzene			20.0	19.9		ug/L		99	60 - 131		
Styrene			20.0	19.9		ug/L		100	75 - 121		
tert-Butyl alcohol			200	180		ug/L		90	15 - 169		
tert-Butylbenzene			20.0	20.7		ug/L		103	63 - 126		
1,1,1,2-Tetrachloroethane			20.0	19.0		ug/L		95	77 - 120		
1,1,2,2-Tetrachloroethane			20.0	18.4		ug/L		92	45 - 151		
Tetrachloroethene			20.0	19.5		ug/L		98	70 - 125		
Toluene			20.0	19.4		ug/L		97	79 - 122		
trans-1,2-Dichloroethene			20.0	19.9		ug/L		99	74 - 130		
trans-1,3-Dichloropropene			20.0	18.1		ug/L		91	64 - 120		
1,2,3-Trichlorobenzene			20.0	19.2		ug/L		96	42 - 126		
1,2,4-Trichlorobenzene			20.0	19.3		ug/L		97	47 - 120		
1,1,1-Trichloroethane			20.0	19.5		ug/L		98	65 - 141		
Trichloroethene			20.0	19.4		ug/L		97	71 - 121		
Trichlorofluoromethane			20.0	22.4		ug/L		112	52 - 148		
1,2,3-Trichloropropane			20.0	18.8		ug/L		94	57 - 137		
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	20.3		ug/L		101	54 - 148		
1,2,4-Trimethylbenzene			20.0	19.9		ug/L		99	66 - 129		
Vinyl acetate			20.0	17.0		ug/L		85	44 - 160		
Vinyl chloride			20.0	22.1		ug/L		111	61 - 134		
Xylenes, Total			40.0	39.2		ug/L		98	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*
Dibromofluoromethane (Surr)	*102*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*
Toluene-d8 (Surr)	*104*		*69 - 122*

Lab Sample ID: LCSD 240-490350/10
Matrix: Water
Analysis Batch: 490350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			40.0	34.5		ug/L		86	33 - 155	4	35
Benzene			20.0	19.1		ug/L		95	77 - 123	0	35
Bromobenzene			20.0	18.4		ug/L		92	77 - 120	5	35

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 240-490350/10
Matrix: Water
Analysis Batch: 490350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane			20.0	18.3		ug/L		92	70 - 128	1	35
Bromodichloromethane			20.0	19.5		ug/L		97	73 - 122	2	35
Bromoform			20.0	18.4		ug/L		92	47 - 133	5	35
Bromomethane			20.0	18.8		ug/L		94	48 - 144	6	35
2-Butanone			40.0	36.0		ug/L		90	41 - 151	5	35
Carbon disulfide			20.0	19.3		ug/L		96	67 - 127	2	35
Carbon tetrachloride			20.0	19.5		ug/L		98	61 - 142	1	35
Chlorobenzene			20.0	19.1		ug/L		95	80 - 120	1	35
Chloroethane			20.0	19.8		ug/L		99	41 - 147	7	35
2-Chloroethyl vinyl ether			20.0	18.4		ug/L		92	29 - 146	3	35
Chloroform			20.0	19.2		ug/L		96	74 - 127	0	35
Chloromethane			20.0	19.1		ug/L		95	46 - 148	7	35
2-Chlorotoluene			20.0	18.7		ug/L		94	73 - 126	3	35
4-Chlorotoluene			20.0	18.8		ug/L		94	73 - 126	4	35
cis-1,2-Dichloroethene			20.0	19.9		ug/L		99	75 - 124	0	35
cis-1,3-Dichloropropene			20.0	19.2		ug/L		96	68 - 128	0	35
Dibromochloromethane			20.0	18.7		ug/L		93	75 - 120	4	35
1,2-Dibromo-3-Chloropropane			20.0	17.1		ug/L		86	34 - 136	12	35
1,2-Dibromoethane			20.0	18.6		ug/L		93	73 - 120	3	35
Dibromomethane			20.0	18.3		ug/L		92	67 - 121	1	35
1,2-Dichlorobenzene			20.0	18.0		ug/L		90	74 - 120	3	35
1,3-Dichlorobenzene			20.0	18.7		ug/L		93	74 - 120	5	35
1,4-Dichlorobenzene			20.0	18.7		ug/L		94	75 - 120	3	35
Dichlorodifluoromethane			20.0	17.6		ug/L		88	35 - 137	19	35
1,1-Dichloroethane			20.0	19.0		ug/L		95	74 - 126	0	35
1,2-Dichloroethane			20.0	18.8		ug/L		94	66 - 129	0	35
1,1-Dichloroethene			20.0	20.6		ug/L		103	73 - 129	0	35
1,2-Dichloropropane			20.0	19.7		ug/L		98	79 - 127	2	35
1,3-Dichloropropane			20.0	18.2		ug/L		91	74 - 122	2	35
2,2-Dichloropropane			20.0	19.7		ug/L		98	67 - 137	0	35
1,1-Dichloropropene			20.0	19.0		ug/L		95	78 - 120	1	35
Ethylbenzene			20.0	19.5		ug/L		97	80 - 120	1	35
Hexachlorobutadiene			20.0	20.2		ug/L		101	40 - 120	4	35
2-Hexanone			40.0	33.5		ug/L		84	43 - 142	3	35
Isopropylbenzene			20.0	19.6		ug/L		98	73 - 123	0	35
Methylene Chloride			20.0	18.9		ug/L		94	63 - 134	0	35
4-Methyl-2-pentanone			40.0	34.8		ug/L		87	43 - 145	5	35
Methyl tert-butyl ether			20.0	18.6		ug/L		93	57 - 127	2	35
m-Xylene & p-Xylene			20.0	19.5		ug/L		97	79 - 121	0	35
Naphthalene			20.0	17.6		ug/L		88	28 - 130	5	35
n-Butylbenzene			20.0	19.5		ug/L		97	54 - 129	2	35
n-Propylbenzene			20.0	18.9		ug/L		95	67 - 130	3	35
o-Xylene			20.0	19.6		ug/L		98	75 - 123	0	35
p-Isopropyltoluene			20.0	19.6		ug/L		98	66 - 127	2	35
sec-Butylbenzene			20.0	19.1		ug/L		95	60 - 131	4	35
Styrene			20.0	20.0		ug/L		100	75 - 121	0	35
tert-Butyl alcohol			200	173		ug/L		86	15 - 169	4	35
tert-Butylbenzene			20.0	20.0		ug/L		100	63 - 126	3	35
1,1,1,2-Tetrachloroethane			20.0	18.5		ug/L		92	77 - 120	3	35

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 240-490350/10
Matrix: Water
Analysis Batch: 490350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane			20.0	17.4		ug/L		87	45 - 151	6	35
Tetrachloroethene			20.0	19.5		ug/L		97	70 - 125	0	35
Toluene			20.0	19.1		ug/L		96	79 - 122	2	35
trans-1,2-Dichloroethene			20.0	19.7		ug/L		98	74 - 130	1	35
trans-1,3-Dichloropropene			20.0	17.8		ug/L		89	64 - 120	2	35
1,2,3-Trichlorobenzene			20.0	18.3		ug/L		92	42 - 126	5	35
1,2,4-Trichlorobenzene			20.0	18.9		ug/L		95	47 - 120	2	35
1,1,1-Trichloroethane			20.0	19.4		ug/L		97	65 - 141	1	35
Trichloroethene			20.0	19.5		ug/L		97	71 - 121	0	35
Trichlorofluoromethane			20.0	19.8		ug/L		99	52 - 148	13	35
1,2,3-Trichloropropane			20.0	17.3		ug/L		87	57 - 137	8	35
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	19.0		ug/L		95	54 - 148	6	35
1,2,4-Trimethylbenzene			20.0	19.4		ug/L		97	66 - 129	3	35
Vinyl acetate			20.0	16.7		ug/L		84	44 - 160	2	35
Vinyl chloride			20.0	20.4		ug/L		102	61 - 134	8	35
Xylenes, Total			40.0	39.1		ug/L		98	78 - 122	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*47 - 134*
Dibromofluoromethane (Surr)	*96*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*
Toluene-d8 (Surr)	*95*		*69 - 122*

Lab Sample ID: MB 240-490456/8
Matrix: Water
Analysis Batch: 490456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			06/14/21 12:30	1
Benzene	1.0	U	1.0	0.13	ug/L			06/14/21 12:30	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			06/14/21 12:30	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			06/14/21 12:30	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			06/14/21 12:30	1
Bromoform	1.0	U	1.0	0.76	ug/L			06/14/21 12:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			06/14/21 12:30	1
2-Butanone	10	U	10	1.2	ug/L			06/14/21 12:30	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			06/14/21 12:30	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			06/14/21 12:30	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			06/14/21 12:30	1
Chloroethane	1.0	U	1.0	0.83	ug/L			06/14/21 12:30	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			06/14/21 12:30	1
Chloroform	1.0	U	1.0	0.13	ug/L			06/14/21 12:30	1
Chloromethane	1.0	U	1.0	0.20	ug/L			06/14/21 12:30	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			06/14/21 12:30	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			06/14/21 12:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/14/21 12:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			06/14/21 12:30	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			06/14/21 12:30	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-490456/8
Matrix: Water
Analysis Batch: 490456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			06/14/21 12:30	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			06/14/21 12:30	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			06/14/21 12:30	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 12:30	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			06/14/21 12:30	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			06/14/21 12:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			06/14/21 12:30	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			06/14/21 12:30	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/14/21 12:30	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 12:30	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			06/14/21 12:30	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			06/14/21 12:30	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			06/14/21 12:30	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/14/21 12:30	1
Diisopropyl ether	10	U	10	0.17	ug/L			06/14/21 12:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			06/14/21 12:30	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			06/14/21 12:30	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			06/14/21 12:30	1
2-Hexanone	10	U	10	0.54	ug/L			06/14/21 12:30	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			06/14/21 12:30	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			06/14/21 12:30	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			06/14/21 12:30	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			06/14/21 12:30	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			06/14/21 12:30	1
Naphthalene	1.0	U	1.0	0.32	ug/L			06/14/21 12:30	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 12:30	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			06/14/21 12:30	1
o-Xylene	1.0	U	1.0	0.090	ug/L			06/14/21 12:30	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			06/14/21 12:30	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			06/14/21 12:30	1
Styrene	1.0	U	1.0	0.10	ug/L			06/14/21 12:30	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			06/14/21 12:30	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			06/14/21 12:30	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			06/14/21 12:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			06/14/21 12:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			06/14/21 12:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/14/21 12:30	1
Toluene	1.0	U	1.0	0.14	ug/L			06/14/21 12:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/14/21 12:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			06/14/21 12:30	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			06/14/21 12:30	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			06/14/21 12:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/14/21 12:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/14/21 12:30	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			06/14/21 12:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			06/14/21 12:30	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			06/14/21 12:30	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			06/14/21 12:30	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			06/14/21 12:30	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-490456/8
Matrix: Water
Analysis Batch: 490456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.19	ug/L			06/14/21 12:30	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/14/21 12:30	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			06/14/21 12:30	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.49*	*T J*	*ug/L*		*1.54*			*06/14/21 12:30*	*1*
Iodomethane	*0.577*	*J*	*ug/L*		*3.39*	*74-88-4*		*06/14/21 12:30*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*06/14/21 12:30*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*06/14/21 12:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 130*		*06/14/21 12:30*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*06/14/21 12:30*	*1*

Lab Sample ID: LCS 240-490456/5
Matrix: Water
Analysis Batch: 490456

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	38.7		ug/L		97	33 - 155
Benzene	20.0	19.5		ug/L		97	77 - 123
Bromobenzene	20.0	19.8		ug/L		99	77 - 120
Bromochloromethane	20.0	18.9		ug/L		94	70 - 128
Bromodichloromethane	20.0	17.2		ug/L		86	73 - 122
Bromoform	20.0	16.6		ug/L		83	47 - 133
Bromomethane	20.0	17.9		ug/L		90	48 - 144
2-Butanone	40.0	39.0		ug/L		98	41 - 151
Carbon disulfide	20.0	20.6		ug/L		103	67 - 127
Carbon tetrachloride	20.0	18.0		ug/L		90	61 - 142
Chlorobenzene	20.0	19.3		ug/L		97	80 - 120
Chloroethane	20.0	20.3		ug/L		101	41 - 147
2-Chloroethyl vinyl ether	20.0	16.7		ug/L		83	29 - 146
Chloroform	20.0	18.1		ug/L		91	74 - 127
Chloromethane	20.0	17.1		ug/L		86	46 - 148
2-Chlorotoluene	20.0	20.3		ug/L		102	73 - 126
4-Chlorotoluene	20.0	20.5		ug/L		102	73 - 126
cis-1,2-Dichloroethene	20.0	19.5		ug/L		98	75 - 124
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	68 - 128
Dibromochloromethane	20.0	17.4		ug/L		87	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.9		ug/L		94	34 - 136
1,2-Dibromoethane	20.0	19.6		ug/L		98	73 - 120
Dibromomethane	20.0	17.7		ug/L		88	67 - 121
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	74 - 120
1,3-Dichlorobenzene	20.0	19.9		ug/L		100	74 - 120
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	75 - 120
Dichlorodifluoromethane	20.0	20.4		ug/L		102	35 - 137
1,1-Dichloroethane	20.0	18.1		ug/L		91	74 - 126
1,2-Dichloroethane	20.0	16.6		ug/L		83	66 - 129

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-490456/5
Matrix: Water
Analysis Batch: 490456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	21.5		ug/L		108	73 - 129
1,2-Dichloropropane	20.0	19.3		ug/L		97	79 - 127
1,3-Dichloropropane	20.0	18.9		ug/L		94	74 - 122
2,2-Dichloropropane	20.0	17.3		ug/L		87	67 - 137
1,1-Dichloropropene	20.0	19.5		ug/L		97	78 - 120
Ethylbenzene	20.0	19.0		ug/L		95	80 - 120
Hexachlorobutadiene	20.0	21.6		ug/L		108	40 - 120
2-Hexanone	40.0	29.6		ug/L		74	43 - 142
Isopropylbenzene	20.0	19.0		ug/L		95	73 - 123
Methylene Chloride	20.0	19.7		ug/L		98	63 - 134
4-Methyl-2-pentanone	40.0	29.2		ug/L		73	43 - 145
Methyl tert-butyl ether	20.0	17.9		ug/L		90	57 - 127
m-Xylene & p-Xylene	20.0	18.9		ug/L		95	79 - 121
Naphthalene	20.0	20.0		ug/L		100	28 - 130
n-Butylbenzene	20.0	20.3		ug/L		102	54 - 129
n-Propylbenzene	20.0	20.3		ug/L		102	67 - 130
o-Xylene	20.0	19.0		ug/L		95	75 - 123
p-Isopropyltoluene	20.0	20.3		ug/L		101	66 - 127
sec-Butylbenzene	20.0	20.1		ug/L		101	60 - 131
Styrene	20.0	19.2		ug/L		96	75 - 121
tert-Butyl alcohol	200	165		ug/L		83	15 - 169
tert-Butylbenzene	20.0	19.7		ug/L		99	63 - 126
1,1,1,2-Tetrachloroethane	20.0	18.6		ug/L		93	77 - 120
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		101	45 - 151
Tetrachloroethene	20.0	19.9		ug/L		99	70 - 125
Toluene	20.0	19.2		ug/L		96	79 - 122
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	74 - 130
trans-1,3-Dichloropropene	20.0	16.8		ug/L		84	64 - 120
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	42 - 126
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		101	47 - 120
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	65 - 141
Trichloroethene	20.0	19.5		ug/L		98	71 - 121
Trichlorofluoromethane	20.0	21.1		ug/L		106	52 - 148
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	57 - 137
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.1		ug/L		110	54 - 148
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	66 - 129
Vinyl acetate	20.0	19.5		ug/L		97	44 - 160
Vinyl chloride	20.0	17.9		ug/L		89	61 - 134
Xylenes, Total	40.0	37.9		ug/L		95	78 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*
Dibromofluoromethane (Surr)	*92*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 130*
Toluene-d8 (Surr)	*96*		*69 - 122*

GC/MS VOA

Analysis Batch: 489711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150601-1	MSA-SW37A-060221	Total/NA	Water	8260C	
240-150601-2	MSA-SW37B-060221	Total/NA	Water	8260C	
MB 240-489711/8	Method Blank	Total/NA	Water	8260C	
LCS 240-489711/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 490350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150601-3	MSA-SW37C-060221	Total/NA	Water	8260C	
240-150601-4	MSA-SW37D-060221	Total/NA	Water	8260C	
240-150601-5	MSA-SW38A-060221	Total/NA	Water	8260C	
240-150601-6	MSA-SW38B-060221	Total/NA	Water	8260C	
240-150601-7	MSA-SW38C-060221	Total/NA	Water	8260C	
240-150601-8	MSA-SW38D-060221	Total/NA	Water	8260C	
240-150601-9	MSA-SW40A-060221	Total/NA	Water	8260C	
240-150601-10	MSA-SW40B-060221	Total/NA	Water	8260C	
240-150601-11	MSA-SW40C-060221	Total/NA	Water	8260C	
240-150601-12	MSA-SW40D-060221	Total/NA	Water	8260C	
240-150601-13	MSA-SW41A-060221	Total/NA	Water	8260C	
240-150601-14	MSA-SW41B-060221	Total/NA	Water	8260C	
240-150601-15	MSA-SW41C-060221	Total/NA	Water	8260C	
240-150601-16	MSA-SW41D-060221	Total/NA	Water	8260C	
240-150601-17	MSA-SW42A-060221	Total/NA	Water	8260C	
240-150601-18	MSA-SW42B-060221	Total/NA	Water	8260C	
240-150601-19	MSA-SW42C-060221	Total/NA	Water	8260C	
240-150601-20	MSA-SW42D-060221	Total/NA	Water	8260C	
240-150601-21	MSA-SW43A-060221	Total/NA	Water	8260C	
240-150601-22	MSA-SW43B-060221	Total/NA	Water	8260C	
MB 240-490350/9	Method Blank	Total/NA	Water	8260C	
LCS 240-490350/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 240-490350/10	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 490456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150601-23	MSA-SW43C-060221	Total/NA	Water	8260C	
240-150601-24	MSA-43D-060221	Total/NA	Water	8260C	
240-150601-25	MSA-44A-060221	Total/NA	Water	8260C	
240-150601-26	MSA-44B-060221	Total/NA	Water	8260C	
240-150601-27	MSA-44C-060221	Total/NA	Water	8260C	
240-150601-28	MSA-44D-060221	Total/NA	Water	8260C	
240-150601-29	TB-060221	Total/NA	Water	8260C	
240-150601-30	MSA-SW46A-060221	Total/NA	Water	8260C	
240-150601-31	MSA-SW47A-060221	Total/NA	Water	8260C	
240-150601-32	MSA-SW48A-060221	Total/NA	Water	8260C	
240-150601-33	MSA-SW49A-060221	Total/NA	Water	8260C	
240-150601-34	EL-SW01A-060221	Total/NA	Water	8260C	
240-150601-35	EL-SW01B-060221	Total/NA	Water	8260C	
240-150601-36	EL-SW01C-060221	Total/NA	Water	8260C	
240-150601-37	EL-SW01D-060221	Total/NA	Water	8260C	
MB 240-490456/8	Method Blank	Total/NA	Water	8260C	
LCS 240-490456/5	Lab Control Sample	Total/NA	Water	8260C	

Client Sample ID: MSA-SW37A-060221
Lab Sample ID: 240-150601-1
Date Collected: 06/02/21 11:29
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	489711	06/09/21 18:57	HMB	TAL CAN

Client Sample ID: MSA-SW37B-060221
Lab Sample ID: 240-150601-2
Date Collected: 06/02/21 11:34
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	489711	06/09/21 19:21	HMB	TAL CAN

Client Sample ID: MSA-SW37C-060221
Lab Sample ID: 240-150601-3
Date Collected: 06/02/21 11:38
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 12:38	HMB	TAL CAN

Client Sample ID: MSA-SW37D-060221
Lab Sample ID: 240-150601-4
Date Collected: 06/02/21 11:43
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 13:00	HMB	TAL CAN

Client Sample ID: MSA-SW38A-060221
Lab Sample ID: 240-150601-5
Date Collected: 06/02/21 10:23
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 13:23	HMB	TAL CAN

Client Sample ID: MSA-SW38B-060221
Lab Sample ID: 240-150601-6
Date Collected: 06/02/21 10:28
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 13:45	HMB	TAL CAN

Client Sample ID: MSA-SW38C-060221
Lab Sample ID: 240-150601-7
Date Collected: 06/02/21 10:34
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 14:08	HMB	TAL CAN

Client Sample ID: MSA-SW38D-060221
Lab Sample ID: 240-150601-8
Date Collected: 06/02/21 10:37
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 14:31	HMB	TAL CAN

Client Sample ID: MSA-SW40A-060221
Lab Sample ID: 240-150601-9
Date Collected: 06/02/21 10:47
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 14:53	HMB	TAL CAN

Client Sample ID: MSA-SW40B-060221
Lab Sample ID: 240-150601-10
Date Collected: 06/02/21 10:50
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 15:16	HMB	TAL CAN

Client Sample ID: MSA-SW40C-060221
Lab Sample ID: 240-150601-11
Date Collected: 06/02/21 10:54
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 15:39	HMB	TAL CAN

Client Sample ID: MSA-SW40D-060221
Lab Sample ID: 240-150601-12
Date Collected: 06/02/21 11:00
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 16:01	HMB	TAL CAN

Client Sample ID: MSA-SW41A-060221
Lab Sample ID: 240-150601-13
Date Collected: 06/02/21 10:00
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 16:24	HMB	TAL CAN

Client Sample ID: MSA-SW41B-060221
Lab Sample ID: 240-150601-14
Date Collected: 06/02/21 10:03
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 16:46	HMB	TAL CAN

Client Sample ID: MSA-SW41C-060221
Lab Sample ID: 240-150601-15
Date Collected: 06/02/21 10:09
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 17:09	HMB	TAL CAN

Client Sample ID: MSA-SW41D-060221
Lab Sample ID: 240-150601-16
Date Collected: 06/02/21 10:14
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 17:31	HMB	TAL CAN

Client Sample ID: MSA-SW42A-060221
Lab Sample ID: 240-150601-17
Date Collected: 06/02/21 11:07
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 17:54	HMB	TAL CAN

Client Sample ID: MSA-SW42B-060221
Lab Sample ID: 240-150601-18
Date Collected: 06/02/21 11:11
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 18:17	HMB	TAL CAN

Client Sample ID: MSA-SW42C-060221
Lab Sample ID: 240-150601-19
Date Collected: 06/02/21 11:18
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 18:39	HMB	TAL CAN

Client Sample ID: MSA-SW42D-060221
Lab Sample ID: 240-150601-20
Date Collected: 06/02/21 11:24
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 19:02	HMB	TAL CAN

Client Sample ID: MSA-SW43A-060221
Lab Sample ID: 240-150601-21
Date Collected: 06/02/21 09:32
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 19:25	HMB	TAL CAN

Client Sample ID: MSA-SW43B-060221
Lab Sample ID: 240-150601-22
Date Collected: 06/02/21 09:36
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490350	06/13/21 19:47	HMB	TAL CAN

Client Sample ID: MSA-SW43C-060221
Lab Sample ID: 240-150601-23
Date Collected: 06/02/21 09:43
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 14:08	HMB	TAL CAN

Client Sample ID: MSA-43D-060221
Lab Sample ID: 240-150601-24
Date Collected: 06/02/21 09:46
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 14:32	HMB	TAL CAN

Client Sample ID: MSA-44A-060221
Lab Sample ID: 240-150601-25
Date Collected: 06/02/21 09:14
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 14:57	HMB	TAL CAN

Client Sample ID: MSA-44B-060221
Lab Sample ID: 240-150601-26
Date Collected: 06/02/21 09:17
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 15:22	HMB	TAL CAN

Client Sample ID: MSA-44C-060221
Lab Sample ID: 240-150601-27
Date Collected: 06/02/21 09:22
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 15:46	HMB	TAL CAN

Client Sample ID: MSA-44D-060221
Lab Sample ID: 240-150601-28
Date Collected: 06/02/21 09:27
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 16:11	HMB	TAL CAN

Client Sample ID: TB-060221
Lab Sample ID: 240-150601-29
Date Collected: 06/02/21 00:00
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 16:35	HMB	TAL CAN

Client Sample ID: MSA-SW46A-060221
Lab Sample ID: 240-150601-30
Date Collected: 06/02/21 11:02
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 17:00	HMB	TAL CAN

Client Sample ID: MSA-SW47A-060221
Lab Sample ID: 240-150601-31
Date Collected: 06/02/21 10:43
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 17:25	HMB	TAL CAN

Client Sample ID: MSA-SW48A-060221
Lab Sample ID: 240-150601-32
Date Collected: 06/02/21 10:16
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 17:49	HMB	TAL CAN

Client Sample ID: MSA-SW49A-060221
Lab Sample ID: 240-150601-33
Date Collected: 06/02/21 09:52
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 18:14	HMB	TAL CAN

Client Sample ID: EL-SW01A-060221
Lab Sample ID: 240-150601-34
Date Collected: 06/02/21 08:17
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 18:38	HMB	TAL CAN

Client Sample ID: EL-SW01B-060221
Lab Sample ID: 240-150601-35
Date Collected: 06/02/21 08:53
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 19:03	HMB	TAL CAN

Client Sample ID: EL-SW01C-060221
Lab Sample ID: 240-150601-36

Date Collected: 06/02/21 08:57
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 19:27	HMB	TAL CAN

Client Sample ID: EL-SW01D-060221
Lab Sample ID: 240-150601-37

Date Collected: 06/02/21 09:03
Matrix: Water
Date Received: 06/03/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490456	06/14/21 19:52	HMB	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: 240-150601-1
SDG: MSA Frog Mortar Creek

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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21 *
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
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	01-12-22
West Virginia DEP	State	210	12-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-150601-1
SDG: MSA Frog Mortar Creek

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: 240-150601-1
SDG: MSA Frog Mortar Creek

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-150601-1	MSA-SW37A-060221	Water	06/02/21 11:29	06/03/21 09:45	
240-150601-2	MSA-SW37B-060221	Water	06/02/21 11:34	06/03/21 09:45	
240-150601-3	MSA-SW37C-060221	Water	06/02/21 11:38	06/03/21 09:45	
240-150601-4	MSA-SW37D-060221	Water	06/02/21 11:43	06/03/21 09:45	
240-150601-5	MSA-SW38A-060221	Water	06/02/21 10:23	06/03/21 09:45	
240-150601-6	MSA-SW38B-060221	Water	06/02/21 10:28	06/03/21 09:45	
240-150601-7	MSA-SW38C-060221	Water	06/02/21 10:34	06/03/21 09:45	
240-150601-8	MSA-SW38D-060221	Water	06/02/21 10:37	06/03/21 09:45	
240-150601-9	MSA-SW40A-060221	Water	06/02/21 10:47	06/03/21 09:45	
240-150601-10	MSA-SW40B-060221	Water	06/02/21 10:50	06/03/21 09:45	
240-150601-11	MSA-SW40C-060221	Water	06/02/21 10:54	06/03/21 09:45	
240-150601-12	MSA-SW40D-060221	Water	06/02/21 11:00	06/03/21 09:45	
240-150601-13	MSA-SW41A-060221	Water	06/02/21 10:00	06/03/21 09:45	
240-150601-14	MSA-SW41B-060221	Water	06/02/21 10:03	06/03/21 09:45	
240-150601-15	MSA-SW41C-060221	Water	06/02/21 10:09	06/03/21 09:45	
240-150601-16	MSA-SW41D-060221	Water	06/02/21 10:14	06/03/21 09:45	
240-150601-17	MSA-SW42A-060221	Water	06/02/21 11:07	06/03/21 09:45	
240-150601-18	MSA-SW42B-060221	Water	06/02/21 11:11	06/03/21 09:45	
240-150601-19	MSA-SW42C-060221	Water	06/02/21 11:18	06/03/21 09:45	
240-150601-20	MSA-SW42D-060221	Water	06/02/21 11:24	06/03/21 09:45	
240-150601-21	MSA-SW43A-060221	Water	06/02/21 09:32	06/03/21 09:45	
240-150601-22	MSA-SW43B-060221	Water	06/02/21 09:36	06/03/21 09:45	
240-150601-23	MSA-SW43C-060221	Water	06/02/21 09:43	06/03/21 09:45	
240-150601-24	MSA-43D-060221	Water	06/02/21 09:46	06/03/21 09:45	
240-150601-25	MSA-44A-060221	Water	06/02/21 09:14	06/03/21 09:45	
240-150601-26	MSA-44B-060221	Water	06/02/21 09:17	06/03/21 09:45	
240-150601-27	MSA-44C-060221	Water	06/02/21 09:22	06/03/21 09:45	
240-150601-28	MSA-44D-060221	Water	06/02/21 09:27	06/03/21 09:45	
240-150601-29	TB-060221	Water	06/02/21 00:00	06/03/21 09:45	
240-150601-30	MSA-SW46A-060221	Water	06/02/21 11:02	06/03/21 09:45	
240-150601-31	MSA-SW47A-060221	Water	06/02/21 10:43	06/03/21 09:45	
240-150601-32	MSA-SW48A-060221	Water	06/02/21 10:16	06/03/21 09:45	
240-150601-33	MSA-SW49A-060221	Water	06/02/21 09:52	06/03/21 09:45	
240-150601-34	EL-SW01A-060221	Water	06/02/21 08:17	06/03/21 09:45	
240-150601-35	EL-SW01B-060221	Water	06/02/21 08:53	06/03/21 09:45	
240-150601-36	EL-SW01C-060221	Water	06/02/21 08:57	06/03/21 09:45	
240-150601-37	EL-SW01D-060221	Water	06/02/21 09:03	06/03/21 09:45	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 Analysis Batch Number: 482539

Lab Sample ID: STD8260 240-482539/9 IC Client Sample ID:

Date Analyzed: 04/23/21 12:04 Lab File ID: UXM36559.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.28	Invalid Compound ID	bosworthh	04/23/21 15:27
Vinyl acetate	4.34	Invalid Compound ID	bosworthh	04/23/21 15:27
2-Butanone	4.83	Invalid Compound ID	bosworthh	04/23/21 15:28
Isobutyl alcohol	5.48	Invalid Compound ID	bosworthh	04/23/21 15:29
n-Heptane	5.82	Invalid Compound ID	bosworthh	04/23/21 15:30
Bromomethane		Invalid Compound ID	bosworthh	04/23/21 13:27
Chloromethane		Invalid Compound ID	bosworthh	04/23/21 15:26

Lab Sample ID: STD8260 240-482539/10 I Client Sample ID:

Date Analyzed: 04/23/21 12:28 Lab File ID: UXM36560.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane		Invalid Compound ID	bosworthh	04/23/21 13:29

Lab Sample ID: STD8260 240-482539/11 I Client Sample ID:

Date Analyzed: 04/23/21 12:52 Lab File ID: UXM36561.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane		Invalid Compound ID	bosworthh	04/23/21 14:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 Analysis Batch Number: 482539

Lab Sample ID: STD8260 240-482539/16 I Client Sample ID:

Date Analyzed: 04/23/21 14:53 Lab File ID: UXM36566.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	04/23/21 15:22
3-Chloro-1-propene		Invalid Compound ID	bosworthh	04/23/21 15:19
4-Methyl-2-pentanone		Invalid Compound ID	bosworthh	04/23/21 15:22
Acetone		Invalid Compound ID	bosworthh	04/23/21 15:18
Chloromethane		Invalid Compound ID	bosworthh	04/23/21 15:17
Iodomethane		Invalid Compound ID	bosworthh	04/23/21 15:19
Isobutyl alcohol		Invalid Compound ID	bosworthh	04/23/21 15:21
Methyl acetate		Invalid Compound ID	bosworthh	04/23/21 15:19
n-Heptane		Invalid Compound ID	bosworthh	04/23/21 15:21
Vinyl acetate		Invalid Compound ID	bosworthh	04/23/21 15:20

Lab Sample ID: STDA9 240-482539/25 IC Client Sample ID:

Date Analyzed: 04/23/21 18:30 Lab File ID: UXM36575.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexanone	9.62	Invalid Compound ID	bosworthh	04/26/21 08:04
2-Nitropropane		Invalid Compound ID	bosworthh	04/26/21 08:03
Acetonitrile		Invalid Compound ID	bosworthh	04/26/21 08:02
n-Butyl acetate		Invalid Compound ID	bosworthh	04/26/21 08:03
Pentachloroethane	10.45	Invalid Compound ID	bosworthh	04/26/21 08:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 Analysis Batch Number: 490456

Lab Sample ID: 240-150601-32 Client Sample ID: MSA-SW48A-060221

Date Analyzed: 06/14/21 17:49 Lab File ID: UXM37884.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane		Invalid Compound ID	bosworthh	06/15/21 08:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Analysis Batch Number: 489988

Lab Sample ID: STD8260 240-489988/8 IC Client Sample ID:

Date Analyzed: 06/10/21 11:06 Lab File ID: UX995907.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Invalid Compound ID	bosworthh	06/10/21 14:22
Acetone		Invalid Compound ID	bosworthh	06/10/21 14:20
Dibromomethane		Invalid Compound ID	bosworthh	06/10/21 14:23
Isobutyl alcohol		Invalid Compound ID	bosworthh	06/10/21 14:21
n-Heptane		Invalid Compound ID	bosworthh	06/10/21 14:22

Lab Sample ID: STD8260 240-489988/13 I Client Sample ID:

Date Analyzed: 06/10/21 12:59 Lab File ID: UX995912.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene-d5	8.57	Peak assignment corrected	bosworthh	06/10/21 13:36

Lab Sample ID: STD8260 240-489988/14 I Client Sample ID:

Date Analyzed: 06/10/21 13:21 Lab File ID: UX995913.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene-d5	8.57	Peak assignment corrected	bosworthh	06/10/21 14:16

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Analysis Batch Number: 490350

Lab Sample ID: 240-150601-3 Client Sample ID: MSA-SW37C-060221

Date Analyzed: 06/13/21 12:38 Lab File ID: UX995986.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 07:52

Lab Sample ID: 240-150601-5 Client Sample ID: MSA-SW38A-060221

Date Analyzed: 06/13/21 13:23 Lab File ID: UX995988.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 07:54

Lab Sample ID: 240-150601-6 Client Sample ID: MSA-SW38B-060221

Date Analyzed: 06/13/21 13:45 Lab File ID: UX995989.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 07:55

Lab Sample ID: 240-150601-8 Client Sample ID: MSA-SW38D-060221

Date Analyzed: 06/13/21 14:31 Lab File ID: UX995991.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 07:56

Lab Sample ID: 240-150601-11 Client Sample ID: MSA-SW40C-060221

Date Analyzed: 06/13/21 15:39 Lab File ID: UX995994.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 07:58

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Analysis Batch Number: 490350

Lab Sample ID: 240-150601-13 Client Sample ID: MSA-SW41A-060221

Date Analyzed: 06/13/21 16:24 Lab File ID: UX995996.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 07:59

Lab Sample ID: 240-150601-15 Client Sample ID: MSA-SW41C-060221

Date Analyzed: 06/13/21 17:09 Lab File ID: UX995998.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 08:00

Lab Sample ID: 240-150601-17 Client Sample ID: MSA-SW42A-060221

Date Analyzed: 06/13/21 17:54 Lab File ID: UX996000.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 08:01

Lab Sample ID: 240-150601-18 Client Sample ID: MSA-SW42B-060221

Date Analyzed: 06/13/21 18:17 Lab File ID: UX996001.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 08:01

Lab Sample ID: 240-150601-19 Client Sample ID: MSA-SW42C-060221

Date Analyzed: 06/13/21 18:39 Lab File ID: UX996002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 08:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Analysis Batch Number: 490350

Lab Sample ID: 240-150601-20 Client Sample ID: MSA-SW42D-060221

Date Analyzed: 06/13/21 19:02 Lab File ID: UX996003.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	bosworthh	06/14/21 08:02
Chloromethane		Invalid Compound ID	bosworthh	06/14/21 08:02

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm50is_stk_a_00008	08/07/21	02/08/21	MEOH, Lot 258810	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_00439	04/28/21	04/21/21	MEOH, Lot na	5 mL	vm50ss_stk_00087	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_00087	09/08/21	03/08/21	MEOH, Lot 0000258810	200 mL	VM567650_00035	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_00035	11/30/23		Restek, Lot A0143613		(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_00444	06/17/21	06/10/21	MEOH, Lot na	5 mL	vm50ss_stk_00087	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_00087	09/08/21	03/08/21	MEOH, Lot 0000258810	200 mL	VM567650_00035	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_00035	11/30/23		Restek, Lot A0143613		(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_00087	09/08/21	03/08/21	MEOH, Lot 0000258810	200 mL	VM567650_00035	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_00035	11/30/23		Restek, Lot A0143613		(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_00389	04/25/21	04/18/21	MEOH, Lot na	5 mL	VMACROLSTD_00094	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00094	05/10/21	04/10/21	MEOH, Lot 0000273166	20 mL	VM568720_00040	0.25 mL	Acrolein	250 ug/mL
..VM568720_00040	07/31/21		restek, Lot A0161364		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00395	06/11/21	06/04/21	MEOH, Lot na	5 mL	VMACROLSTD_00095	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00095	06/11/21	05/11/21	MEOH, Lot 0000273166	20 mL	VM568720_00040	0.25 mL	Acrolein	250 ug/mL
..VM568720_00040	07/31/21		restek, Lot A0161364		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00396	06/19/21	06/12/21	MEOH, Lot na	5 mL	VMACROLSTD_00096	5 mL	Acrolein	250 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMACROLSTD_00096	07/12/21	06/12/21	MEOH, Lot 0000273166	20 mL	VM568720_00040	0.25 mL	Acrolein	250 ug/mL
..VM568720_00040	07/31/21		restek, Lot A0161364		(Purchased Reagent)		Acrolein	20000 ug/mL
vmbfb_00026							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
vmbfb_00027							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_00317	04/30/21	04/23/21	MEOH, Lot NA	5 mL	VMFASA9_00025	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_00025	04/30/21	03/13/21	MEOH, Lot 00000258810	100 mL	VM569727S_00004	2 mL	Cyclohexanone	500 ug/mL
					vm570806S_00006	4 mL	Pentachloroethane	100 ug/mL
					vm570807S_00006	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_00009	2 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993S_00007	2 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727S_00004	01/31/22		RESTEK, Lot A0144966		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806S_00006	02/29/24		Restek, Lot A0146080		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807S_00006	12/31/23		Restek, Lot A0144306		(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_00009	11/30/21		Restek, Lot A0160820		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993S_00007	05/31/21		restek, Lot A0148991		(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
VMFASA9W_00322	06/11/21	06/04/21	MEOH, Lot NA	5 mL	VMFASA9_00026	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_00026	11/03/21	05/03/21	MEOH, Lot 0000273166	100 mL	VM569727S_00004	2 mL	Cyclohexanone	500 ug/mL
					vm570806S_00006	4 mL	Pentachloroethane	100 ug/mL
					vm570807S_00006	4 mL	2-Methylnaphthalene	100 ug/mL
					VM570808S_00010	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809S_00009	2 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993S_00008	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_00006	02/29/24		Restek, Lot A0146080		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807S_00006	12/31/23		Restek, Lot A0144306		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808S_00010	02/28/22		Restek, Lot A0163851		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809S_00009	11/30/21		Restek, Lot A0160820		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993S_00008	10/31/22		restek, Lot A0165034		(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_00371	04/28/21	04/21/21	MEOH, Lot NA	5 mL	VMFASA_00069	5 mL	Acrolein	250 ug/mL
.VMFASA_00069	04/30/21	02/18/21	MEOH, Lot +230910000258810JD	100 mL	VM568720S_00037	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00037	04/30/21		restek, Lot A0154553		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00377	06/16/21	06/09/21	MEOH, Lot NA	5 mL	VMFASA_00070	5 mL	Acrolein	250 ug/mL
.VMFASA_00070	09/30/21	04/21/21	MEOH, Lot 0000273166	100 mL	VM568720S_00038	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00038	09/30/21		restek, Lot A0159281		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00404	04/27/21	04/20/21	MEOH, Lot NA	5 mL	VMFASG_00105	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_00105	05/12/21	04/12/21	MEOH, Lot 0000273166	100 mL	vm569722S_00008	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_00008	04/30/23		Restek, Lot A0159768		(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_00410	06/11/21	06/04/21	MEOH, Lot NA	5 mL	VMFASG_00106	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_00106	06/13/21	05/13/21	MEOH, Lot 0000273166	100 mL	vm569722S_00008	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..vm569722S_00008	04/30/23		Restek, Lot A0159768		(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_00411	06/13/21	06/12/21	MEOH, Lot NA	5 mL	VMFASG_00106	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_00106	06/13/21	05/13/21	MEOH, Lot 0000273166	100 mL	vm569722S_00008	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_00008	04/30/23		Restek, Lot A0159768		(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_00412	06/21/21	06/14/21	MEOH, Lot NA	5 mL	VMFASG_00107	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_00107	07/12/21	06/12/21	MEOH, Lot 0000273166	100 mL	vm569722S_00008	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_00008	04/30/23		Restek, Lot A0159768		(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_00395	04/26/21	04/19/21	MEOH, Lot n/a	5 mL	VMRFASP_00074	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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-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
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00074	06/30/21	04/18/21	MEOH, Lot 0000273166	100 mL	VM569721S_00006	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	1 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569723S_00009	1 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00005	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
							4-Chlorotoluene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
					VM571992S_00007	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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_00006	11/30/21		Restek, Lot A0143456		(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
..VM569723S_00009	09/30/22		Restek, Lot A0153415		(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_00005	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
..VM571992S_00007	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASPW_00401	06/11/21	06/04/21	MEOH, Lot n/a	5 mL	VMRFASP_00074	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
							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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00074	06/30/21	04/18/21	MEOH, Lot 0000273166	100 mL	VM569721S_00006	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	1 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569723S_00009	1 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00005	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
					VM571992S_00007	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00006	11/30/21		Restek, Lot A0143456		(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
..VM569723S_00009	09/30/22		Restek, Lot A0153415		(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_00005	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
..VM571992S_00007	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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
							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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00402	06/17/21	06/10/21	MEOH, Lot n/a	5 mL	VMRFASP_00075	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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 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
.VMRFASP_00075	06/30/21	06/10/21	MEOH, Lot 0000273166	100 mL	VM569721S_00006	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_00009	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00007	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00006	11/30/21		Restek, Lot A0143456		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00009	09/30/22		Restek, Lot A0153415		(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_00007	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

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SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

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SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylenes, Total	5000 ug/mL
vmra9w_00388	04/30/21	04/23/21	MEOH, Lot NA	5 mL	VMRA9_00033	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_00033	05/31/21	02/01/21	MEOH, Lot 0000258810	50 mL	VM569727_00005	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
					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_00005	02/28/23		RESTEK, Lot A0158129		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL

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SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..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_00394	06/16/21	06/09/21	MEOH, Lot NA	5 mL	VMRA9_00034	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_00034	06/30/21	06/01/21	MEOH, Lot 0000258810	50 mL	VM569727_00005	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_00007	1 mL	1,2,3-Trimethylbenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
					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_00005	02/28/23		RESTEK, Lot A0158129		(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_00007	12/31/21		Restek, Lot A0162183		(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
vmrgas_00382	04/30/21	04/23/21	MEOH, Lot 0000273166	10 mL	vm569722_00018	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.vm569722_00018	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_00387	06/10/21	06/03/21	MEOH, Lot 0000273166	10 mL	vm569722_00018	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_00018	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
VMRGAS_00388	06/16/21	06/09/21	MEOH, Lot 0000273166	10 mL	vm569722_00018	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_00018	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
vmrprimw_00432	04/24/21	04/17/21	MEOH, Lot NA	5 mL	VMRPRIM_00049	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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_00049	06/01/21	03/01/21	MEOH, Lot 0000258810	50 mL	VM569721_00007	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_00004	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
..VM569721_00007	09/30/22		Restek, Lot A0152956		(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_00004	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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_00432	04/24/21	04/17/21	MEOH, Lot NA	5 mL	VMRPRIM_00049	5 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00049	06/01/21	03/01/21	MEOH, Lot 0000258810	50 mL	VM571992_00004	1 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM571992_00004	06/30/21	Restek, Lot A0143774			(Purchased Reagent)		Total BTEX	12500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
vmrprimw_00439	06/16/21	06/09/21	MEOH, Lot NA	5 mL	VMRPRIM_00050	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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_00050	06/30/21	06/01/21	MEOH, Lot +232960000273166JL	50 mL	VM569721_00007	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_00009	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00025	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00004	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Tetrachloroethene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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
							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_00007	09/30/22		Restek, Lot A0152956		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00009	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00025	10/31/21		Restek, Lot A0160321		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00004	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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00439	06/16/21	06/09/21	MEOH, Lot NA	5 mL	VMRPRIM_00050	5 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00050	06/30/21	06/01/21	MEOH, Lot +232960000273166JL	50 mL	VM571992_00004	1 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM571992_00004	06/30/21	Restek, Lot A0143774			(Purchased Reagent)		Total BTEX	12500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL

Reagent

vm30026_00003

Rec: 11/28/18
VM30026-00063

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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. : 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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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. : 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_00035

Rec: 12/4/19
VM567650_00035

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Catalog No. : 567650 **Lot No.:** A0143613

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012017) **Purity** 99%	2,506.4 µg/mL	+/- 14.5724 µg/mL +/- 140.5314 µg/mL +/- 143.8196 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,503.8 µg/mL	+/- 14.5570 µg/mL +/- 140.3828 µg/mL +/- 143.6676 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-27311) **Purity** 99%	2,512.2 µg/mL	+/- 14.6059 µg/mL +/- 140.8538 µg/mL +/- 144.1496 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,501.8 µg/mL	+/- 14.5457 µg/mL +/- 140.2734 µg/mL +/- 143.5557 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568720_00040

Rc'd 9/17/20 VM 568720_ 00040

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Catalog No. : 568720 **Lot No.:** A0156859

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		19,830.0 µg/mL	+/-	116.1090	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot D0012019-1219)		+/-	396.1504	µg/mL	Unstressed
	Purity 99%			+/-	888.7531	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720S_00037

Rec: 4/7/20
VM568720s - 00037

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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

VM568720S_00038

Rec: 12/2/20
VMS68720S - 00038

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Catalog No. : 568720.SEC **Lot No.:** A0159281

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 : 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	Acrolein	19,756.8 µg/mL	+/- 115.6804 µg/mL	Gravimetric
	CAS # 107-02-8.SEC (Lot CS-D0310)		+/- 394.6881 µg/mL	Unstressed
	Purity 99%		+/- 885.4724 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569721_00007

Rec: 2-21-20

VM569721-00007

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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. : 569721 **Lot No.:** A0152956

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 : September 30, 2022 **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 SHBK6362) **Purity** 99%	12,546.0 µg/mL	+/- 73.4596 +/- 757.0057 +/- 758.8027	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBK5945) **Purity** 99%	12,564.0 µg/mL	+/- 73.5650 +/- 758.0918 +/- 759.8914	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBK5017) **Purity** 99%	12,558.0 µg/mL	+/- 73.5299 +/- 757.7297 +/- 759.5285	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCD9048) **Purity** 99%	12,562.0 µg/mL	+/- 73.5533 +/- 757.9711 +/- 759.7704	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721S_00006

Rec: 2-25-20

VM569721S-00006

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Catalog No. : 569721.SEC **Lot No.:** A0143456

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 : 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	Acetone **CAS #** 67-64-1.SEC (Lot U13B039) **Purity** 99%	12,524.5 µg/mL	+/- 72.8185 µg/mL +/- 755.6586 µg/mL +/- 757.4526 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC (Lot RGZ2A) **Purity** 99%	12,527.8 µg/mL	+/- 72.8374 µg/mL +/- 755.8547 µg/mL +/- 757.6492 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC (Lot E29T040) **Purity** 99%	12,515.3 µg/mL	+/- 72.7647 µg/mL +/- 755.1005 µg/mL +/- 756.8932 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC (Lot Y3TUO) **Purity** 98%	12,516.8 µg/mL	+/- 72.7738 µg/mL +/- 755.1943 µg/mL +/- 756.9873 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

vm569722_00018

Rec: 12/2/20
VM569722-00018

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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)	2,502.3 µg/mL	+/- 16.4178 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 140.5076 µg/mL	Unstressed
	Purity 99%		+/- 143.7858 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.6 µg/mL	+/- 16.3299 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 140.4038 µg/mL	Unstressed
	Purity 99%		+/- 143.6799 µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/- 17.2154 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 140.4890 µg/mL	Unstressed
	Purity 99%		+/- 143.7623 µg/mL	Stressed
4	1,3-Butadiene	2,500.7 µg/mL	+/- 17.6652 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/- 140.5681 µg/mL	Unstressed
	Purity 99%		+/- 143.8406 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,501.2 µg/mL	+/- 16.4034 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 140.4450 µg/mL	Unstressed
	Purity 99%		+/- 143.7217 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/- 17.7279 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 140.5555 µg/mL	Unstressed
	Purity 99%		+/- 143.8274 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.5352 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 8582700)		+/- 140.1725 µg/mL	Unstressed
	Purity 99%		+/- 143.4524 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 **Purity** 99%	(Lot MKCJ8658)	2,501.4	µg/mL	+/- 16.0800 +/- 140.4203 +/- 143.6982	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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)

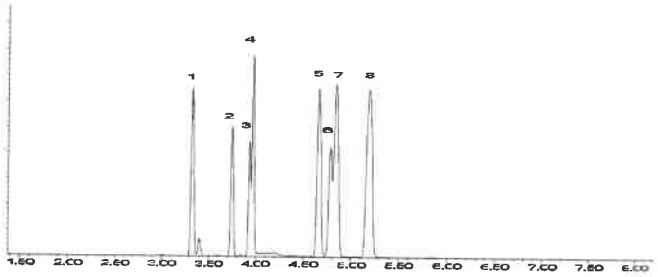
Carrier Gas:
helium-constant pressure 30 psi

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

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vm569722S_00008

Rec: 7/17/20
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Catalog No. : 569722.SEC **Lot No.:** A0159768

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 : April 30, 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.SEC (Lot 26165) **Purity** 99%	2,501.8 µg/mL	+/- 19.9803 µg/mL +/- 140.9385 µg/mL +/- 144.2054 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,510.1 µg/mL	+/- 18.7758 µg/mL +/- 141.2337 µg/mL +/- 144.5155 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,518.3 µg/mL	+/- 19.4159 µg/mL +/- 141.7727 µg/mL +/- 145.0634 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,510.8 µg/mL	+/- 17.5328 µg/mL +/- 141.1137 µg/mL +/- 144.4001 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,506.4 µg/mL	+/- 23.4232 µg/mL +/- 141.7223 µg/mL +/- 144.9835 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,523.5 µg/mL	+/- 21.4589 µg/mL +/- 142.3524 µg/mL +/- 145.6434 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)		2,496.5 µg/mL	+/-	17.7311	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)		+/-	140.3462	µg/mL	Unstressed
	Purity 99%			+/-	143.6131	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)

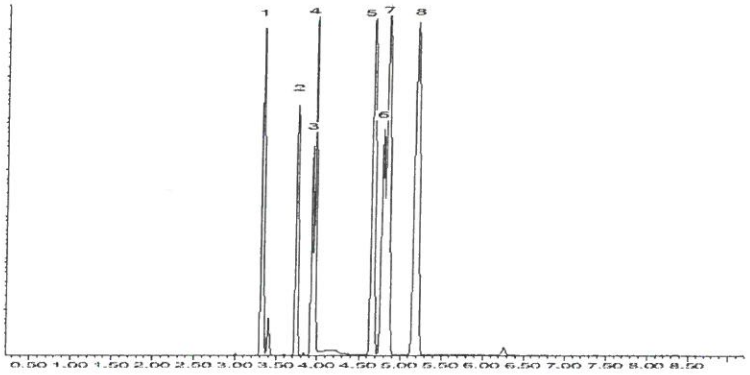
Carrier Gas:
helium-constant pressure 30 psi

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.

Brandon Reish - Mix Technician

Date Mixed: 09-Apr-2020 **Balance:** 1127510105

Feng-Yun Lo - QC Analyst

Date Passed: 24-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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

VM569723_00009

Rec: 2-21-20

VM569723_00009

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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.:** 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 **CAS #** 110-75-8 (Lot MKBS6526V) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 +/- 53.5253 +/- 55.0814	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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
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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

VM569723S_00009

VM569723S-00009

Rec: 2-21-20

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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. : 569723.SEC **Lot No.:** A0153415

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 : September 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-Chloroethyl vinyl ether	2,503.3 µg/mL	+/- 14.6910	µg/mL	Gravimetric
	CAS # 110-75-8.SEC (Lot BQZ2K-QD)		+/- 53.6339	µg/mL	Unstressed
	Purity 99%		+/- 55.1910	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_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

VM569724_00025

Rec: 12/2/20
VM569724_00025

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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. : 569724 **Lot No.:** A0160321

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 : October 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%

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_00005

Rec: 12/2/20
VM569727_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. : 569727 **Lot No.:** A0158129

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 : February 28, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,040.0 µg/mL	+/- 146.6147 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKBZ8847V)		+/- 1,510.8738 µg/mL	Unstressed
	Purity 99%		+/- 1,514.4604 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727S_00004

Rec: 9/9/19 (14)
VM569727S - 0004

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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. : 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_00005

Rec: 6/19/19
VMS70806_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. : 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_00006

Rcld 10-13-20 VH5708765_00006

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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. : 570806.SEC **Lot No.:** A0146080

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 : February 29, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,502.7 µg/mL	+/- 14.6871	µg/mL	Gravimetric
	CAS # 76-01-7.SEC (Lot 5854000)		+/- 140.3362	µg/mL	Unstressed
	Purity 99%		+/- 143.6193	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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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. : 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 **CAS #** 91-57-6 (Lot STBF0201V) **Purity** 95%	2,501.4 µg/mL	+/- 14.6793 µg/mL +/- 140.2624 µg/mL +/- 143.5437 µg/mL	Gravimetric Unstressed Stressed
2	1-Methylnaphthalene **CAS #** 90-12-0 (Lot 523400-9) **Purity** 98%	2,505.9 µg/mL	+/- 14.7058 µg/mL +/- 140.5153 µg/mL +/- 143.8025 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807S_00006

Rcld 10-13-20 VM5708075_ 00006

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Catalog No. : 570807.SEC **Lot No.:** A0144306

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 : December 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Methylnaphthalene	2,505.4 µg/mL	+/- 14.7029	µg/mL	Gravimetric
	CAS # 91-57-6.SEC (Lot 76023-1)		+/- 140.4878	µg/mL	Unstressed
	Purity 98%		+/- 143.7744	µg/mL	Stressed
2	1-Methylnaphthalene	2,511.0 µg/mL	+/- 14.7360	µg/mL	Gravimetric
	CAS # 90-12-0.SEC (Lot OEE3F)		+/- 140.8035	µg/mL	Unstressed
	Purity 99%		+/- 144.0975	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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)

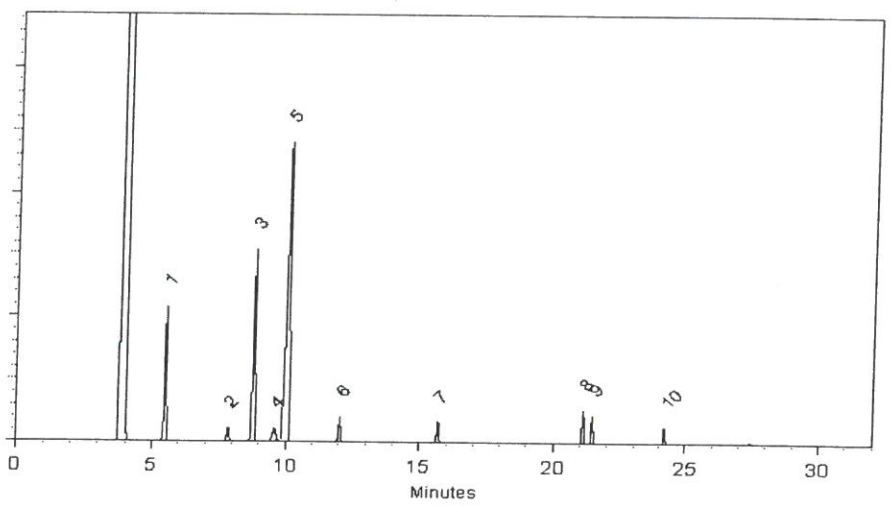
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

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Rec: 4/16/21
VMS70808_0007

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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 **Lot No.:** A0162183

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 : December 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 SHBL2068) **Purity** 99%	25,052.0 µg/mL	+/- 146.6850 µg/mL +/- 1,239.3901 µg/mL +/- 1,270.2026 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 200520JLM) **Purity** 99%	2,507.5 µg/mL	+/- 14.7154 µg/mL +/- 124.0568 µg/mL +/- 127.1407 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012019) **Purity** 99%	25,046.0 µg/mL	+/- 146.6498 µg/mL +/- 1,239.0932 µg/mL +/- 1,269.8984 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBF8066V) **Purity** 99%	2,519.0 µg/mL	+/- 14.7829 µg/mL +/- 124.6257 µg/mL +/- 127.7238 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBL0546) **Purity** 99%	62,559.5 µg/mL	+/- 366.2807 µg/mL +/- 3,094.9851 µg/mL +/- 3,171.9298 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCCB9352) **Purity** 97%	5,022.2 µg/mL	+/- 29.4059 µg/mL +/- 248.4606 µg/mL +/- 254.6375 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot BCBS3368V) **Purity** 98%	2,502.4 µg/mL	+/- 14.6857 µg/mL +/- 123.8059 µg/mL +/- 126.8837 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8 **Purity** 99%	(Lot 8776.10-14)	2,515.5	µg/mL	+/- 14.7624 +/- 124.4526 +/- 127.5464	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7 **Purity** 99%	(Lot SHBH2102V)	2,506.0	µg/mL	+/- 14.7066 +/- 123.9825 +/- 127.0647	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	2,502.5	µg/mL	+/- 14.6861 +/- 123.8094 +/- 126.8872	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)

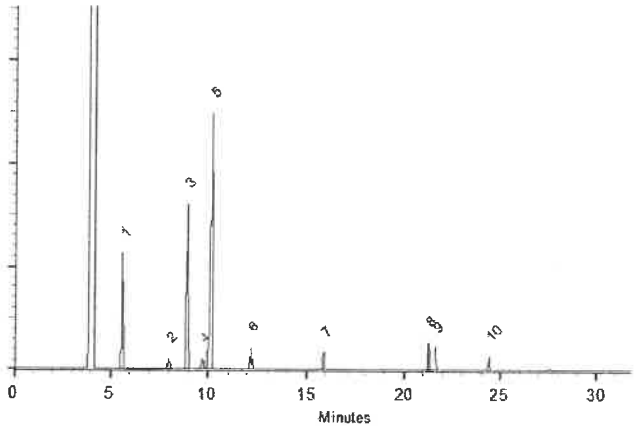
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Clara Windle - Operations Technician I

Date Mixed: 29-Jun-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 02-Jul-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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Rec: 5-4-20
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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. : 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)

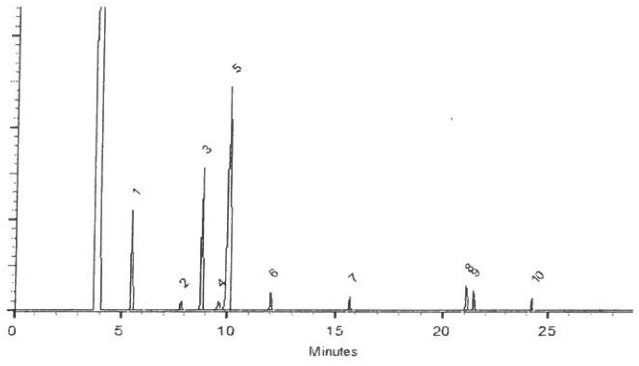
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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: 3/22/21
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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.:** A0163851

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 : February 28, 2022 **Storage:** 0°C or colder

Ship: Ambient

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 TFT5I) **Purity** 99%	25,018.5 µg/mL	+/- 146.4888 µg/mL +/- 1,237.7327 µg/mL +/- 1,268.5041 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 * (Lot 200520JLM) **Purity** 99%	2,502.0 µg/mL	+/- 14.6831 µg/mL +/- 123.7846 µg/mL +/- 126.8619 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 * (Lot 1012014) **Purity** 99%	25,009.0 µg/mL	+/- 146.4332 µg/mL +/- 1,237.2627 µg/mL +/- 1,268.0224 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) **CAS #** 540-84-1.SEC (Lot 8014900) **Purity** 99%	2,503.5 µg/mL	+/- 14.6919 µg/mL +/- 123.8589 µg/mL +/- 126.9379 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3.SEC (Lot 6B6UL) **Purity** 99%	62,545.0 µg/mL	+/- 366.1958 µg/mL +/- 3,094.2678 µg/mL +/- 3,171.1946 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9.SEC (Lot Y4YWD) **Purity** 98%	5,014.7 µg/mL	+/- 29.3619 µg/mL +/- 248.0888 µg/mL +/- 254.2565 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5.SEC (Lot 8171700) **Purity** 99%	2,501.5 µg/mL	+/- 14.6802 µg/mL +/- 123.7599 µg/mL +/- 126.8365 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,503.1	µg/mL	+/-	14.6895	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 8658900)			+/-	123.8383	µg/mL	Unstressed
	Purity 97%				+/-	126.9169	µg/mL	Stressed
9	Benzyl chloride		2,502.5	µg/mL	+/-	14.6861	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	123.8094	µg/mL	Unstressed
	Purity 99%				+/-	126.8872	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,502.0	µg/mL	+/-	14.6831	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	123.7846	µg/mL	Unstressed
	Purity 99%				+/-	126.8619	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)

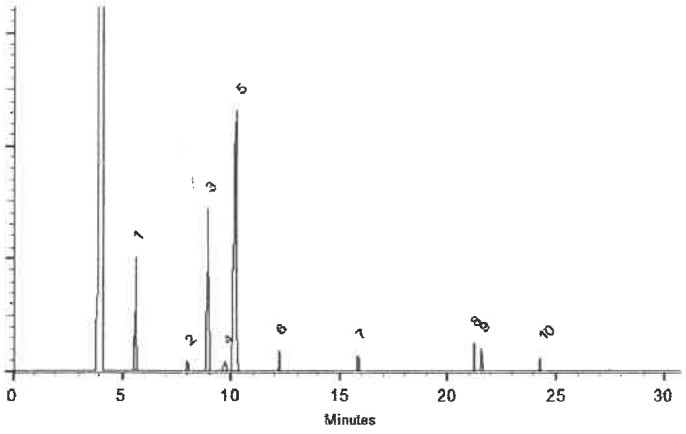
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Matt Fragassi - Mix Technician

Date Mixed: 25-Aug-2020 **Balance:** 1128342314

Justine Albertson - Operations Tech-ARM QC

Date Passed: 28-Aug-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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Rec: 4/20/20
VM570809_00007

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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.:** 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_00009

Rc'd 10/13/20 VH 5708095_ 00009

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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. : 570809.SEC **Lot No.:** A0160820

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 : 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	Ethyl acetate **CAS #** 141-78-6.SEC (Lot C386A-GG) **Purity** 99%	5,004.5 µg/mL	+/- 29.3024 µg/mL +/- 301.9636 µg/mL +/- 302.6804 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5.SEC (Lot YIFAM-TG) **Purity** 99%	2,500.5 µg/mL	+/- 14.6743 µg/mL +/- 150.8794 µg/mL +/- 151.2376 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6.SEC (Lot G01X021) **Purity** 99%	5,018.0 µg/mL	+/- 29.3815 µg/mL +/- 302.7781 µg/mL +/- 303.4969 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4.SEC (Lot V2L2G-GT) **Purity** 99%	2,501.5 µg/mL	+/- 14.6802 µg/mL +/- 150.9398 µg/mL +/- 151.2981 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM571992_00004

VMS71992-00004 Rec: 2-21-20

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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. : 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		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
25	n-Heptane (C7)		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBJ2424)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot SHBJ0707)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
27	Benzene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBJ5344)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
28	Trichloroethene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBH1955V)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
29	Methylcyclohexane		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBJ0457)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
30	1,2-Dichloropropane		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
31	1,4-Dioxane		50,001.1	µg/mL	+/-	290.6957	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBJ7415)			+/-	3,016.7880	µg/mL	Unstressed
	Purity 99%				+/-	3,023.9503	µg/mL	Stressed
32	Dibromomethane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 25076)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
34	Toluene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBJ5659)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
35	Ethyl methacrylate		2,502.8	µg/mL	+/-	14.5512	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot 69796APV)			+/-	151.0020	µg/mL	Unstressed
	Purity 99%				+/-	151.3605	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot C797620)			+/-	150.8718	µg/mL	Unstressed
	Purity 98%				+/-	151.2300	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
38	1,3-Dichloropropane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
39	Tetrachloroethene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBH9691)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	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		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBS7648V)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
58	2-Chlorotoluene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKBW5554V)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
59	4-Chlorotoluene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKBL7753V)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
60	tert-Butylbenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,499.9	µg/mL	+/-	14.5348	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBH5027V)			+/-	150.8320	µg/mL	Unstressed
	Purity 97%				+/-	151.1901	µg/mL	Stressed
62	sec-Butylbenzene		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBR9260V)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKBV3556V)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBQ7100V)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
66	n-Butylbenzene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBG3111V)			+/-	151.0095	µg/mL	Unstressed
	Purity 99%				+/-	151.3681	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,502.1	µg/mL	+/-	14.5476	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	150.9643	µg/mL	Unstressed
	Purity 99%				+/-	151.3227	µg/mL	Stressed
70	Hexachlorobutadiene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
71	Naphthalene		2,502.8	µg/mL	+/-	14.5512	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	151.0020	µg/mL	Unstressed
	Purity 99%				+/-	151.3605	µg/mL	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)

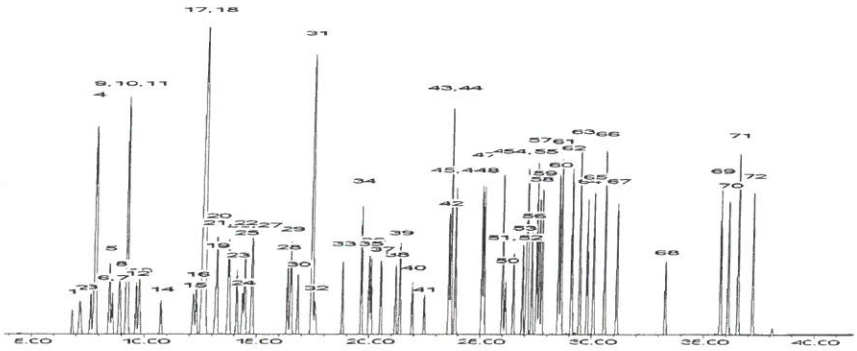
Carrier Gas:
helium-constant pressure 30 psi

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_00005

Rec: 5/31/19
VM571992S-00005

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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. : 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)

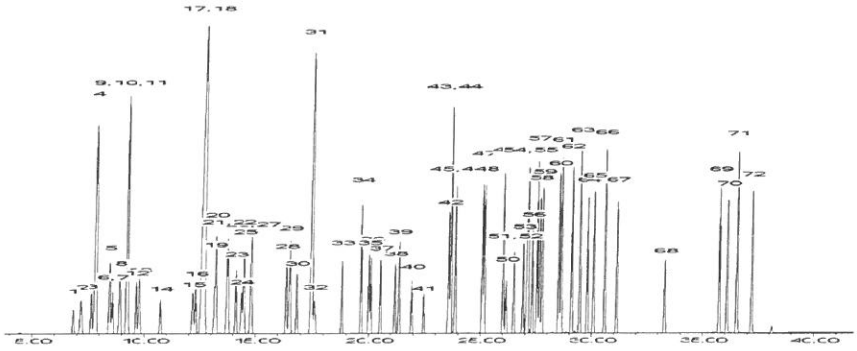
Carrier Gas:
helium-constant pressure 30 psi

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

VM571992S_00007

VM571992S-00007 Rec; 2-21-20

RESTEK® CERTIFIED REFERENCE MATERIAL

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ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 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 +/- 151.8598 +/- 152.2203	µg/mL µg/mL 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 +/- 151.2383 +/- 151.5974	µg/mL µg/mL 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 +/- 151.0372 +/- 151.3958	µg/mL µg/mL 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 +/- 1,508.4071 +/- 1,511.9883	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 +/- 301.8129 +/- 302.5295	µg/mL µg/mL 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 +/- 151.0472 +/- 151.4059	µg/mL µg/mL 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 +/- 151.5400 +/- 151.8998	µg/mL µg/mL 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 **CAS #** 124-48-1.SEC **Purity** 97%	(Lot 10206360)	2,502.4 µg/mL	+/- 14.5494 +/- 150.9832 +/- 151.3417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4.SEC **Purity** 99%	(Lot 3505900)	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7.SEC **Purity** 99%	(Lot 1161936)	2,504.8 µg/mL	+/- 14.5633 +/- 151.1277 +/- 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3.SEC **Purity** 99%	(Lot OUKMG-GB)	1,251.7 µg/mL	+/- 7.2941 +/- 75.5202 +/- 75.6995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3.SEC **Purity** 99%	(Lot GM01)	1,253.7 µg/mL	+/- 7.3058 +/- 75.6409 +/- 75.8205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4.SEC **Purity** 99%	(Lot PI4SE)	2,503.5 µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6.SEC **Purity** 99%	(Lot GC01)	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6.SEC **Purity** 99%	(Lot FGL01)	2,504.2 µg/mL	+/- 14.5594 +/- 151.0875 +/- 151.4462	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5.SEC **Purity** 99%	(Lot OFIOL-IA)	2,507.2 µg/mL	+/- 14.5769 +/- 151.2685 +/- 151.6276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8.SEC **Purity** 99%	(Lot 2PHXG-IH)	2,505.2 µg/mL	+/- 14.5653 +/- 151.1478 +/- 151.5067	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform **CAS #** 75-25-2.SEC **Purity** 97%	(Lot 5461400)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8661 +/- 151.2243	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane **CAS #** 75-27-4.SEC **Purity** 98%	(Lot 13780)	2,501.3 µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5.SEC **Purity** 99%	(Lot CFA4D-AQ)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4.SEC **Purity** 99%	(Lot GUHZN)	2,505.7 µg/mL	+/- 14.5682 +/- 151.1780 +/- 151.5369	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene **CAS #** 110-57-6.SEC **Purity** 98%	(Lot 100700-3)	2,514.2 µg/mL	+/- 14.6177 +/- 151.6922 +/- 152.0524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1.SEC **Purity** 99%	(Lot T2HFC)	2,503.7 µg/mL	+/- 14.5565 +/- 151.0573 +/- 151.4159	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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)

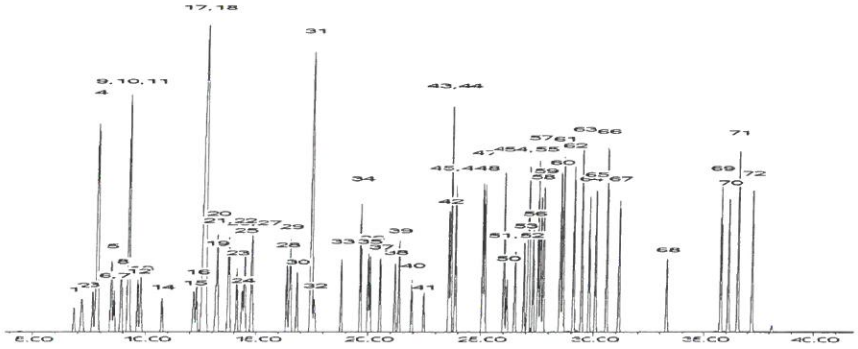
Carrier Gas:
helium-constant pressure 30 psi

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
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Certificate #FM 80397

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Rec: 6-11-20
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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 **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 +/- 1,237.8729 +/- 1,268.6477	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3 (Lot SHBH1927V) **Purity** 99%	2,503.7 µg/mL	+/- 14.6929 +/- 123.8671 +/- 126.9464	µg/mL µg/mL 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 +/- 123.8011 +/- 126.8788	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0 (Lot BCBW0865) **Purity** 99%	25,038.0 µg/mL	+/- 146.6030 +/- 1,238.6975 +/- 1,269.4928	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4 (Lot STBG1140V) **Purity** 99%	25,036.7 µg/mL	+/- 146.5952 +/- 1,238.6315 +/- 1,269.4252	µg/mL µg/mL 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 +/- 123.8176 +/- 126.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571993S_00007

Rec: 5-21-20
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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. : 571993.SEC **Lot No.:** A0148991

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 : 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	Acetonitrile **CAS #** 75-05-8.SEC (Lot 7KGDA) **Purity** 99%	25,013.5 µg/mL	+/- 146.4595 µg/mL +/- 1,237.4854 µg/mL +/- 1,268.2506 µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3.SEC (Lot LL7TN-SH) **Purity** 99%	2,514.0 µg/mL	+/- 14.7536 µg/mL +/- 124.3783 µg/mL +/- 127.4703 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3.SEC (Lot MHBJG-QK) **Purity** 99%	2,511.5 µg/mL	+/- 14.7389 µg/mL +/- 124.2547 µg/mL +/- 127.3436 µg/mL	Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0.SEC (Lot PS48O) **Purity** 99%	25,013.0 µg/mL	+/- 146.4566 µg/mL +/- 1,237.4606 µg/mL +/- 1,268.2252 µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4.SEC (Lot ZL6RD) **Purity** 99%	25,020.0 µg/mL	+/- 146.4976 µg/mL +/- 1,237.8069 µg/mL +/- 1,268.5801 µg/mL	Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8.SEC (Lot 8471400) **Purity** 99%	2,510.5 µg/mL	+/- 14.7330 µg/mL +/- 124.2052 µg/mL +/- 127.2929 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571993S_00008

Rec: 3/22/21

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Certificate #3222.02

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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.SEC **Lot No.:** A0165034

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 : October 31, 2022 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile	25,064.0 µg/mL	+/- 146.7552 µg/mL	Gravimetric
	CAS # 75-05-8.SEC (Lot 7KGDA)		+/- 1,239.9837 µg/mL	Unstressed
	Purity 99%		+/- 1,270.8110 µg/mL	Stressed
2	Diisopropyl ether (DIPE)	2,523.0 µg/mL	+/- 14.8064 µg/mL	Gravimetric
	CAS # 108-20-3.SEC (Lot LL7TN-SH)		+/- 124.8236 µg/mL	Unstressed
	Purity 99%		+/- 127.9267 µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)	2,502.9 µg/mL	+/- 14.6885 µg/mL	Gravimetric
	CAS # 637-92-3.SEC (Lot UCI5B)		+/- 123.8302 µg/mL	Unstressed
	Purity 98%		+/- 126.9085 µg/mL	Stressed
4	Propionitrile	25,061.0 µg/mL	+/- 146.7377 µg/mL	Gravimetric
	CAS # 107-12-0.SEC (Lot SASVN)		+/- 1,239.8353 µg/mL	Unstressed
	Purity 99%		+/- 1,270.6589 µg/mL	Stressed
5	tert-Amyl alcohol	25,080.0 µg/mL	+/- 146.8489 µg/mL	Gravimetric
	CAS # 75-85-4.SEC (Lot D87JO)		+/- 1,240.7753 µg/mL	Unstressed
	Purity 99%		+/- 1,271.6223 µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)	2,519.0 µg/mL	+/- 14.7829 µg/mL	Gravimetric
	CAS # 994-05-8.SEC (Lot 8471400)		+/- 124.6257 µg/mL	Unstressed
	Purity 99%		+/- 127.7238 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

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-060221	240-150601-1	99	90	98	106
MSA-SW37B-060221	240-150601-2	99	90	98	105
MSA-SW37C-060221	240-150601-3	97	89	101	93
MSA-SW37D-060221	240-150601-4	104	99	110	104
MSA-SW38A-060221	240-150601-5	105	100	108	104
MSA-SW38B-060221	240-150601-6	103	96	106	100
MSA-SW38C-060221	240-150601-7	109	101	113	106
MSA-SW38D-060221	240-150601-8	113	107	121	115
MSA-SW40A-060221	240-150601-9	110	104	116	110
MSA-SW40B-060221	240-150601-10	119	109	122	114
MSA-SW40C-060221	240-150601-11	121	111	126 S1+	118
MSA-SW40D-060221	240-150601-12	117	108	123 S1+	115
MSA-SW41A-060221	240-150601-13	129	119	134 S1+	126
MSA-SW41B-060221	240-150601-14	133 S1+	123	140 S1+	131
MSA-SW41C-060221	240-150601-15	129	119	134 S1+	125
MSA-SW41D-060221	240-150601-16	127	118	130 S1+	123
MSA-SW42A-060221	240-150601-17	129	120	137 S1+	128
MSA-SW42B-060221	240-150601-18	147 S1+	135 S1+	148 S1+	142 S1+
MSA-SW42C-060221	240-150601-19	133 S1+	123	136 S1+	127
MSA-SW42D-060221	240-150601-20	133 S1+	123	139 S1+	130
MSA-SW43A-060221	240-150601-21	147 S1+	133 S1+	154 S1+	146 S1+
MSA-SW43B-060221	240-150601-22	135 S1+	122	136 S1+	130
MSA-SW43C-060221	240-150601-23	99	88	96	100
MSA-43D-060221	240-150601-24	98	87	97	102
MSA-44A-060221	240-150601-25	101	88	95	101
MSA-44B-060221	240-150601-26	101	88	95	102
MSA-44C-060221	240-150601-27	102	88	95	104
MSA-44D-060221	240-150601-28	101	88	94	101
TB-060221	240-150601-29	100	90	95	103
MSA-SW46A-060221	240-150601-30	100	88	96	101
MSA-SW47A-060221	240-150601-31	100	89	95	103
MSA-SW48A-060221	240-150601-32	102	88	96	103
MSA-SW49A-060221	240-150601-33	101	89	96	102
EL-SW01A-060221	240-150601-34	102	89	95	104
EL-SW01B-060221	240-150601-35	100	87	94	102

	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
EL-SW01C-060221	240-150601-36	99	88	96	102
EL-SW01D-060221	240-150601-37	103	89	96	104
	MB 240-489711/8	100	84	97	105
	MB 240-490350/9	105	99	106	102
	MB 240-490456/8	102	89	95	102
	LCS 240-489711/5	98	86	96	104
	LCS 240-490350/6	102	93	104	104
	LCS 240-490456/5	92	84	96	101
	LCSD 240-490350/10	96	92	95	95
	240-150571-B-1 MS	100	89	98	106
	240-150799-B-2 MS	95	86	93	101
	240-150571-B-1 MSD	95	87	97	104
	240-150799-B-2 MSD	96	86	95	100

	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37731.D

Lab ID: LCS 240-489711/5 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	18.6	93	77-123	
Bromobenzene	20.0	19.5	98	77-120	
Bromochloromethane	20.0	19.8	99	70-128	
Bromodichloromethane	20.0	17.0	85	73-122	
Bromoform	20.0	15.3	76	47-133	
Bromomethane	20.0	9.76	49	48-144	
2-Butanone	40.0	38.1	95	41-151	
Carbon disulfide	20.0	18.7	94	67-127	
Carbon tetrachloride	20.0	17.6	88	61-142	
Chlorobenzene	20.0	19.2	96	80-120	
Chloroethane	20.0	18.4	92	41-147	
2-Chloroethyl vinyl ether	20.0	6.04 J	30	29-146	
Chloroform	20.0	18.8	94	74-127	
Chloromethane	20.0	14.2	71	46-148	
2-Chlorotoluene	20.0	20.1	101	73-126	
4-Chlorotoluene	20.0	20.5	102	73-126	
cis-1,2-Dichloroethene	20.0	20.4	102	75-124	
cis-1,3-Dichloropropene	20.0	16.8	84	68-128	
Dibromochloromethane	20.0	15.8	79	75-120	
1,2-Dibromo-3-Chloropropane	20.0	16.6	83	34-136	
1,2-Dibromoethane	20.0	17.8	89	73-120	
Dibromomethane	20.0	18.1	90	67-121	
1,2-Dichlorobenzene	20.0	19.0	95	74-120	
1,3-Dichlorobenzene	20.0	19.7	98	74-120	
1,4-Dichlorobenzene	20.0	19.8	99	75-120	
Dichlorodifluoromethane	20.0	15.6	78	35-137	
1,1-Dichloroethane	20.0	18.1	91	74-126	
1,2-Dichloroethane	20.0	17.0	85	66-129	
1,1-Dichloroethene	20.0	20.6	103	73-129	
1,2-Dichloropropane	20.0	18.5	92	79-127	
1,3-Dichloropropane	20.0	17.1	85	74-122	
2,2-Dichloropropane	20.0	13.5	68	67-137	
1,1-Dichloropropene	20.0	17.9	89	78-120	
Ethylbenzene	20.0	19.4	97	80-120	
Hexachlorobutadiene	20.0	21.4	107	40-120	
2-Hexanone	40.0	32.1	80	43-142	
Isopropylbenzene	20.0	19.8	99	73-123	
Methylene Chloride	20.0	19.8	99	63-134	
4-Methyl-2-pentanone	40.0	31.2	78	43-145	
Methyl tert-butyl ether	20.0	15.0	75	57-127	
m-Xylene & p-Xylene	20.0	19.9	99	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37731.D

Lab ID: LCS 240-489711/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	19.2	96	28-130	
n-Butylbenzene	20.0	19.7	98	54-129	
n-Propylbenzene	20.0	20.2	101	67-130	
o-Xylene	20.0	20.1	101	75-123	
p-Isopropyltoluene	20.0	19.9	99	66-127	
sec-Butylbenzene	20.0	19.9	99	60-131	
Styrene	20.0	21.4	107	75-121	
tert-Butyl alcohol	200	82.6	41	15-169	
tert-Butylbenzene	20.0	19.8	99	63-126	
1,1,1,2-Tetrachloroethane	20.0	17.4	87	77-120	
1,1,2,2-Tetrachloroethane	20.0	17.3	86	45-151	
Tetrachloroethene	20.0	19.1	95	70-125	
Toluene	20.0	18.9	94	79-122	
trans-1,2-Dichloroethene	20.0	19.8	99	74-130	
trans-1,3-Dichloropropene	20.0	14.9	74	64-120	
1,2,3-Trichlorobenzene	20.0	19.4	97	42-126	
1,2,4-Trichlorobenzene	20.0	19.6	98	47-120	
1,1,1-Trichloroethane	20.0	17.8	89	65-141	
Trichloroethene	20.0	18.6	93	71-121	
Trichlorofluoromethane	20.0	18.2	91	52-148	
1,2,3-Trichloropropane	20.0	16.8	84	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	19.6	98	54-148	
1,2,4-Trimethylbenzene	20.0	19.7	98	66-129	
Vinyl acetate	20.0	17.2	86	44-160	
Vinyl chloride	20.0	15.0	75	61-134	
Xylenes, Total	40.0	40.0	100	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX995981.D

Lab ID: LCS 240-490350/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	36.1	90	33-155	
Benzene	20.0	19.1	96	77-123	
Bromobenzene	20.0	19.2	96	77-120	
Bromochloromethane	20.0	18.2	91	70-128	
Bromodichloromethane	20.0	19.1	96	73-122	
Bromoform	20.0	19.4	97	47-133	
Bromomethane	20.0	20.0	100	48-144	
2-Butanone	40.0	37.8	94	41-151	
Carbon disulfide	20.0	19.6	98	67-127	
Carbon tetrachloride	20.0	19.4	97	61-142	
Chlorobenzene	20.0	19.3	97	80-120	
Chloroethane	20.0	21.3	107	41-147	
2-Chloroethyl vinyl ether	20.0	19.0	95	29-146	
Chloroform	20.0	19.2	96	74-127	
Chloromethane	20.0	20.5	103	46-148	
2-Chlorotoluene	20.0	19.4	97	73-126	
4-Chlorotoluene	20.0	19.5	98	73-126	
cis-1,2-Dichloroethene	20.0	19.9	99	75-124	
cis-1,3-Dichloropropene	20.0	19.2	96	68-128	
Dibromochloromethane	20.0	19.4	97	75-120	
1,2-Dibromo-3-Chloropropane	20.0	19.3	96	34-136	
1,2-Dibromoethane	20.0	19.2	96	73-120	
Dibromomethane	20.0	18.6	93	67-121	
1,2-Dichlorobenzene	20.0	18.6	93	74-120	
1,3-Dichlorobenzene	20.0	19.6	98	74-120	
1,4-Dichlorobenzene	20.0	19.3	96	75-120	
Dichlorodifluoromethane	20.0	21.3	107	35-137	
1,1-Dichloroethane	20.0	18.9	94	74-126	
1,2-Dichloroethane	20.0	18.8	94	66-129	
1,1-Dichloroethene	20.0	20.6	103	73-129	
1,2-Dichloropropane	20.0	19.3	97	79-127	
1,3-Dichloropropane	20.0	18.6	93	74-122	
2,2-Dichloropropane	20.0	19.7	99	67-137	
1,1-Dichloropropene	20.0	19.3	97	78-120	
Ethylbenzene	20.0	19.8	99	80-120	
Hexachlorobutadiene	20.0	21.0	105	40-120	
2-Hexanone	40.0	34.7	87	43-142	
Isopropylbenzene	20.0	19.7	99	73-123	
Methylene Chloride	20.0	18.8	94	63-134	
4-Methyl-2-pentanone	40.0	36.7	92	43-145	
Methyl tert-butyl ether	20.0	18.9	95	57-127	
m-Xylene & p-Xylene	20.0	19.6	98	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX995981.D

Lab ID: LCS 240-490350/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	18.6	93	28-130	
n-Butylbenzene	20.0	19.8	99	54-129	
n-Propylbenzene	20.0	19.5	98	67-130	
o-Xylene	20.0	19.6	98	75-123	
p-Isopropyltoluene	20.0	20.0	100	66-127	
sec-Butylbenzene	20.0	19.9	99	60-131	
Styrene	20.0	19.9	100	75-121	
tert-Butyl alcohol	200	180	90	15-169	
tert-Butylbenzene	20.0	20.7	103	63-126	
1,1,1,2-Tetrachloroethane	20.0	19.0	95	77-120	
1,1,2,2-Tetrachloroethane	20.0	18.4	92	45-151	
Tetrachloroethene	20.0	19.5	98	70-125	
Toluene	20.0	19.4	97	79-122	
trans-1,2-Dichloroethene	20.0	19.9	99	74-130	
trans-1,3-Dichloropropene	20.0	18.1	91	64-120	
1,2,3-Trichlorobenzene	20.0	19.2	96	42-126	
1,2,4-Trichlorobenzene	20.0	19.3	97	47-120	
1,1,1-Trichloroethane	20.0	19.5	98	65-141	
Trichloroethene	20.0	19.4	97	71-121	
Trichlorofluoromethane	20.0	22.4	112	52-148	
1,2,3-Trichloropropane	20.0	18.8	94	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.3	101	54-148	
1,2,4-Trimethylbenzene	20.0	19.9	99	66-129	
Vinyl acetate	20.0	17.0	85	44-160	
Vinyl chloride	20.0	22.1	111	61-134	
Xylenes, Total	40.0	39.2	98	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37868.D

Lab ID: LCS 240-490456/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	38.7	97	33-155	
Benzene	20.0	19.5	97	77-123	
Bromobenzene	20.0	19.8	99	77-120	
Bromochloromethane	20.0	18.9	94	70-128	
Bromodichloromethane	20.0	17.2	86	73-122	
Bromoform	20.0	16.6	83	47-133	
Bromomethane	20.0	17.9	90	48-144	
2-Butanone	40.0	39.0	98	41-151	
Carbon disulfide	20.0	20.6	103	67-127	
Carbon tetrachloride	20.0	18.0	90	61-142	
Chlorobenzene	20.0	19.3	97	80-120	
Chloroethane	20.0	20.3	101	41-147	
2-Chloroethyl vinyl ether	20.0	16.7	83	29-146	
Chloroform	20.0	18.1	91	74-127	
Chloromethane	20.0	17.1	86	46-148	
2-Chlorotoluene	20.0	20.3	102	73-126	
4-Chlorotoluene	20.0	20.5	102	73-126	
cis-1,2-Dichloroethene	20.0	19.5	98	75-124	
cis-1,3-Dichloropropene	20.0	18.4	92	68-128	
Dibromochloromethane	20.0	17.4	87	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.9	94	34-136	
1,2-Dibromoethane	20.0	19.6	98	73-120	
Dibromomethane	20.0	17.7	88	67-121	
1,2-Dichlorobenzene	20.0	19.3	97	74-120	
1,3-Dichlorobenzene	20.0	19.9	100	74-120	
1,4-Dichlorobenzene	20.0	20.0	100	75-120	
Dichlorodifluoromethane	20.0	20.4	102	35-137	
1,1-Dichloroethane	20.0	18.1	91	74-126	
1,2-Dichloroethane	20.0	16.6	83	66-129	
1,1-Dichloroethene	20.0	21.5	108	73-129	
1,2-Dichloropropane	20.0	19.3	97	79-127	
1,3-Dichloropropane	20.0	18.9	94	74-122	
2,2-Dichloropropane	20.0	17.3	87	67-137	
1,1-Dichloropropene	20.0	19.5	97	78-120	
Ethylbenzene	20.0	19.0	95	80-120	
Hexachlorobutadiene	20.0	21.6	108	40-120	
2-Hexanone	40.0	29.6	74	43-142	
Isopropylbenzene	20.0	19.0	95	73-123	
Methylene Chloride	20.0	19.7	98	63-134	
4-Methyl-2-pentanone	40.0	29.2	73	43-145	
Methyl tert-butyl ether	20.0	17.9	90	57-127	
m-Xylene & p-Xylene	20.0	18.9	95	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37868.D

Lab ID: LCS 240-490456/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	20.0	100	28-130	
n-Butylbenzene	20.0	20.3	102	54-129	
n-Propylbenzene	20.0	20.3	102	67-130	
o-Xylene	20.0	19.0	95	75-123	
p-Isopropyltoluene	20.0	20.3	101	66-127	
sec-Butylbenzene	20.0	20.1	101	60-131	
Styrene	20.0	19.2	96	75-121	
tert-Butyl alcohol	200	165	83	15-169	
tert-Butylbenzene	20.0	19.7	99	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.6	93	77-120	
1,1,2,2-Tetrachloroethane	20.0	20.1	101	45-151	
Tetrachloroethene	20.0	19.9	99	70-125	
Toluene	20.0	19.2	96	79-122	
trans-1,2-Dichloroethene	20.0	20.1	100	74-130	
trans-1,3-Dichloropropene	20.0	16.8	84	64-120	
1,2,3-Trichlorobenzene	20.0	20.4	102	42-126	
1,2,4-Trichlorobenzene	20.0	20.1	101	47-120	
1,1,1-Trichloroethane	20.0	18.4	92	65-141	
Trichloroethene	20.0	19.5	98	71-121	
Trichlorofluoromethane	20.0	21.1	106	52-148	
1,2,3-Trichloropropane	20.0	19.9	99	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.1	110	54-148	
1,2,4-Trimethylbenzene	20.0	19.6	98	66-129	
Vinyl acetate	20.0	19.5	97	44-160	
Vinyl chloride	20.0	17.9	89	61-134	
Xylenes, Total	40.0	37.9	95	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX995985.D

Lab ID: LCSD 240-490350/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	40.0	34.5	86	4	35	33-155	
Benzene	20.0	19.1	95	0	35	77-123	
Bromobenzene	20.0	18.4	92	5	35	77-120	
Bromochloromethane	20.0	18.3	92	1	35	70-128	
Bromodichloromethane	20.0	19.5	97	2	35	73-122	
Bromoform	20.0	18.4	92	5	35	47-133	
Bromomethane	20.0	18.8	94	6	35	48-144	
2-Butanone	40.0	36.0	90	5	35	41-151	
Carbon disulfide	20.0	19.3	96	2	35	67-127	
Carbon tetrachloride	20.0	19.5	98	1	35	61-142	
Chlorobenzene	20.0	19.1	95	1	35	80-120	
Chloroethane	20.0	19.8	99	7	35	41-147	
2-Chloroethyl vinyl ether	20.0	18.4	92	3	35	29-146	
Chloroform	20.0	19.2	96	0	35	74-127	
Chloromethane	20.0	19.1	95	7	35	46-148	
2-Chlorotoluene	20.0	18.7	94	3	35	73-126	
4-Chlorotoluene	20.0	18.8	94	4	35	73-126	
cis-1,2-Dichloroethene	20.0	19.9	99	0	35	75-124	
cis-1,3-Dichloropropene	20.0	19.2	96	0	35	68-128	
Dibromochloromethane	20.0	18.7	93	4	35	75-120	
1,2-Dibromo-3-Chloropropane	20.0	17.1	86	12	35	34-136	
1,2-Dibromoethane	20.0	18.6	93	3	35	73-120	
Dibromomethane	20.0	18.3	92	1	35	67-121	
1,2-Dichlorobenzene	20.0	18.0	90	3	35	74-120	
1,3-Dichlorobenzene	20.0	18.7	93	5	35	74-120	
1,4-Dichlorobenzene	20.0	18.7	94	3	35	75-120	
Dichlorodifluoromethane	20.0	17.6	88	19	35	35-137	
1,1-Dichloroethane	20.0	19.0	95	0	35	74-126	
1,2-Dichloroethane	20.0	18.8	94	0	35	66-129	
1,1-Dichloroethene	20.0	20.6	103	0	35	73-129	
1,2-Dichloropropane	20.0	19.7	98	2	35	79-127	
1,3-Dichloropropane	20.0	18.2	91	2	35	74-122	
2,2-Dichloropropane	20.0	19.7	98	0	35	67-137	
1,1-Dichloropropene	20.0	19.0	95	1	35	78-120	
Ethylbenzene	20.0	19.5	97	1	35	80-120	
Hexachlorobutadiene	20.0	20.2	101	4	35	40-120	
2-Hexanone	40.0	33.5	84	3	35	43-142	
Isopropylbenzene	20.0	19.6	98	0	35	73-123	
Methylene Chloride	20.0	18.9	94	0	35	63-134	
4-Methyl-2-pentanone	40.0	34.8	87	5	35	43-145	
Methyl tert-butyl ether	20.0	18.6	93	2	35	57-127	
m-Xylene & p-Xylene	20.0	19.5	97	0	35	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX995985.D

Lab ID: LCSD 240-490350/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	20.0	17.6	88	5	35	28-130	
n-Butylbenzene	20.0	19.5	97	2	35	54-129	
n-Propylbenzene	20.0	18.9	95	3	35	67-130	
o-Xylene	20.0	19.6	98	0	35	75-123	
p-Isopropyltoluene	20.0	19.6	98	2	35	66-127	
sec-Butylbenzene	20.0	19.1	95	4	35	60-131	
Styrene	20.0	20.0	100	0	35	75-121	
tert-Butyl alcohol	200	173	86	4	35	15-169	
tert-Butylbenzene	20.0	20.0	100	3	35	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.5	92	3	35	77-120	
1,1,2,2-Tetrachloroethane	20.0	17.4	87	6	35	45-151	
Tetrachloroethene	20.0	19.5	97	0	35	70-125	
Toluene	20.0	19.1	96	2	35	79-122	
trans-1,2-Dichloroethene	20.0	19.7	98	1	35	74-130	
trans-1,3-Dichloropropene	20.0	17.8	89	2	35	64-120	
1,2,3-Trichlorobenzene	20.0	18.3	92	5	35	42-126	
1,2,4-Trichlorobenzene	20.0	18.9	95	2	35	47-120	
1,1,1-Trichloroethane	20.0	19.4	97	1	35	65-141	
Trichloroethene	20.0	19.5	97	0	35	71-121	
Trichlorofluoromethane	20.0	19.8	99	13	35	52-148	
1,2,3-Trichloropropane	20.0	17.3	87	8	35	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	19.0	95	6	35	54-148	
1,2,4-Trimethylbenzene	20.0	19.4	97	3	35	66-129	
Vinyl acetate	20.0	16.7	84	2	35	44-160	
Vinyl chloride	20.0	20.4	102	8	35	61-134	
Xylenes, Total	40.0	39.1	98	0	35	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37756.D

Lab ID: 240-150571-B-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Trichloroethene	400	470	832	90	56-124	

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37892.D

Lab ID: 240-150799-B-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	3200	800 U	3580	112	32-157	
Benzene	1600	80 U	1540	96	70-121	
Bromodichloromethane	1600	80 U	1410	88	69-120	
Bromoform	1600	80 U	1280	80	41-128	
Bromomethane	1600	80 U	1290	81	41-136	
2-Butanone	3200	800 U	3390	106	40-147	
Carbon disulfide	1600	80 U	1620	101	54-131	
Carbon tetrachloride	1600	80 U	1400	87	53-142	
Chlorobenzene	1600	17 J	1500	93	73-120	
Chloroethane	1600	80 U	1420	89	37-142	
Chloroform	1600	14 J	1520	94	66-126	
Chloromethane	1600	80 U	1260	79	33-146	
cis-1,2-Dichloroethene	1600	730	2300	98	68-121	
cis-1,3-Dichloropropene	1600	80 U	1420	89	56-121	
Dibromochloromethane	1600	80 U	1350	85	66-120	
1,2-Dibromo-3-Chloropropane	1600	160 U	1460	91	31-130	
1,2-Dibromoethane	1600	80 U	1490	93	66-120	
1,2-Dichlorobenzene	1600	80 U	1530	96	65-120	
1,3-Dichlorobenzene	1600	80 U	1520	95	64-120	
1,4-Dichlorobenzene	1600	80 U	1560	97	65-120	
Dichlorodifluoromethane	1600	80 U	1320	82	27-132	
1,1-Dichloroethane	1600	80 U	1440	90	71-121	
1,2-Dichloroethane	1600	80 U	1400	87	65-127	
1,1-Dichloroethene	1600	80 U	1760	110	64-132	
1,2-Dichloropropane	1600	80 U	1520	95	73-125	
Ethylbenzene	1600	80 U	1470	92	66-122	
2-Hexanone	3200	800 U	2370	74	44-142	
Isopropylbenzene	1600	80 U	1460	91	56-122	
Methylene Chloride	1600	400 U	1620	101	59-127	
4-Methyl-2-pentanone	3200	800 U	2330	73	40-147	
Methyl tert-butyl ether	1600	80 U	1420	88	50-126	
m-Xylene & p-Xylene	1600	160 U	1470	92	65-123	
o-Xylene	1600	80 U	1520	95	63-124	
Styrene	1600	80 U	1510	95	57-126	
1,1,2,2-Tetrachloroethane	1600	80 U	1570	98	37-149	
Tetrachloroethene	1600	80 U	1470	92	52-129	
Toluene	1600	80 U	1470	92	68-124	
trans-1,2-Dichloroethene	1600	80 U	1630	102	69-126	
trans-1,3-Dichloropropene	1600	80 U	1230	77	53-120	
1,2,4-Trichlorobenzene	1600	25 J	1590	98	37-120	
1,1,1-Trichloroethane	1600	80 U	1440	90	62-135	
Trichloroethene	1600	1700	3260	97	56-124	

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37892.D

Lab ID: 240-150799-B-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Trichlorofluoromethane	1600	80 U	1450	90	45-152	
1,1,2-Trichloro-1,2,2-trichfluoroethane	1600	80 U	1580	99	41-145	
Vinyl chloride	1600	240	1530	81	49-136	
Xylenes, Total	3200	160 U	2990	93	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37757.D

Lab ID: 240-150571-B-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Trichloroethene	400	877	101	5	35	56-124	

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37893.D

Lab ID: 240-150799-B-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	3200	3710	116	4	35	32-157	
Benzene	1600	1680	105	9	35	70-121	
Bromodichloromethane	1600	1510	94	7	35	69-120	
Bromoform	1600	1360	85	6	35	41-128	
Bromomethane	1600	1410	88	8	35	41-136	
2-Butanone	3200	3430	107	1	35	40-147	
Carbon disulfide	1600	1820	114	12	35	54-131	
Carbon tetrachloride	1600	1550	97	11	35	53-142	
Chlorobenzene	1600	1640	102	9	35	73-120	
Chloroethane	1600	1580	99	11	35	37-142	
Chloroform	1600	1650	102	9	35	66-126	
Chloromethane	1600	1390	87	9	35	33-146	
cis-1,2-Dichloroethene	1600	2490	109	8	35	68-121	
cis-1,3-Dichloropropene	1600	1530	96	8	35	56-121	
Dibromochloromethane	1600	1470	92	8	35	66-120	
1,2-Dibromo-3-Chloropropane	1600	1530	95	4	35	31-130	
1,2-Dibromoethane	1600	1600	100	7	35	66-120	
1,2-Dichlorobenzene	1600	1640	102	7	35	65-120	
1,3-Dichlorobenzene	1600	1670	104	9	35	64-120	
1,4-Dichlorobenzene	1600	1690	106	8	35	65-120	
Dichlorodifluoromethane	1600	1440	90	9	35	27-132	
1,1-Dichloroethane	1600	1600	100	10	35	71-121	
1,2-Dichloroethane	1600	1500	94	7	35	65-127	
1,1-Dichloroethene	1600	1920	120	9	35	64-132	
1,2-Dichloropropane	1600	1670	105	10	35	73-125	
Ethylbenzene	1600	1610	101	9	35	66-122	
2-Hexanone	3200	2400	75	1	35	44-142	
Isopropylbenzene	1600	1590	100	9	20	56-122	
Methylene Chloride	1600	1790	112	10	32	59-127	
4-Methyl-2-pentanone	3200	2470	77	6	35	40-147	
Methyl tert-butyl ether	1600	1510	94	6	17	50-126	
m-Xylene & p-Xylene	1600	1620	101	10	35	65-123	
o-Xylene	1600	1660	104	9	35	63-124	
Styrene	1600	1650	103	9	35	57-126	
1,1,2,2-Tetrachloroethane	1600	1660	104	6	35	37-149	
Tetrachloroethene	1600	1620	101	9	35	52-129	
Toluene	1600	1600	100	9	35	68-124	
trans-1,2-Dichloroethene	1600	1770	111	8	35	69-126	
trans-1,3-Dichloropropene	1600	1330	83	8	35	53-120	
1,2,4-Trichlorobenzene	1600	1700	105	7	25	37-120	
1,1,1-Trichloroethane	1600	1590	99	10	35	62-135	
Trichloroethene	1600	3450	109	6	35	56-124	

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM37893.D

Lab ID: 240-150799-B-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Trichlorofluoromethane	1600	1590	99	9	35	45-152	
1,1,2-Trichloro-1,2,2-trichfluoroethane	1600	1790	112	13	35	41-145	
Vinyl chloride	1600	1620	87	6	35	49-136	
Xylenes, Total	3200	3280	103	9	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UXM37734.D Lab Sample ID: MB 240-489711/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 06/09/2021 10:54

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 240-489711/5	UXM37731.D	06/09/2021 09:42
MSA-SW37A-060221	240-150601-1	UXM37754.D	06/09/2021 18:57
MSA-SW37B-060221	240-150601-2	UXM37755.D	06/09/2021 19:21
	240-150571-B-1 MS	UXM37756.D	06/09/2021 19:46
	240-150571-B-1 MSD	UXM37757.D	06/09/2021 20:10

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UX995984.D Lab Sample ID: MB 240-490350/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 06/13/2021 11:53

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 240-490350/6	UX995981.D	06/13/2021 10:45
	LCSD 240-490350/10	UX995985.D	06/13/2021 12:15
MSA-SW37C-060221	240-150601-3	UX995986.D	06/13/2021 12:38
MSA-SW37D-060221	240-150601-4	UX995987.D	06/13/2021 13:00
MSA-SW38A-060221	240-150601-5	UX995988.D	06/13/2021 13:23
MSA-SW38B-060221	240-150601-6	UX995989.D	06/13/2021 13:45
MSA-SW38C-060221	240-150601-7	UX995990.D	06/13/2021 14:08
MSA-SW38D-060221	240-150601-8	UX995991.D	06/13/2021 14:31
MSA-SW40A-060221	240-150601-9	UX995992.D	06/13/2021 14:53
MSA-SW40B-060221	240-150601-10	UX995993.D	06/13/2021 15:16
MSA-SW40C-060221	240-150601-11	UX995994.D	06/13/2021 15:39
MSA-SW40D-060221	240-150601-12	UX995995.D	06/13/2021 16:01
MSA-SW41A-060221	240-150601-13	UX995996.D	06/13/2021 16:24
MSA-SW41B-060221	240-150601-14	UX995997.D	06/13/2021 16:46
MSA-SW41C-060221	240-150601-15	UX995998.D	06/13/2021 17:09
MSA-SW41D-060221	240-150601-16	UX995999.D	06/13/2021 17:31
MSA-SW42A-060221	240-150601-17	UX996000.D	06/13/2021 17:54
MSA-SW42B-060221	240-150601-18	UX996001.D	06/13/2021 18:17
MSA-SW42C-060221	240-150601-19	UX996002.D	06/13/2021 18:39
MSA-SW42D-060221	240-150601-20	UX996003.D	06/13/2021 19:02
MSA-SW43A-060221	240-150601-21	UX996004.D	06/13/2021 19:25
MSA-SW43B-060221	240-150601-22	UX996005.D	06/13/2021 19:47

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UXM37871.D Lab Sample ID: MB 240-490456/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 06/14/2021 12:30

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 240-490456/5	UXM37868.D	06/14/2021 11:16
MSA-SW43C-060221	240-150601-23	UXM37875.D	06/14/2021 14:08
MSA-43D-060221	240-150601-24	UXM37876.D	06/14/2021 14:32
MSA-44A-060221	240-150601-25	UXM37877.D	06/14/2021 14:57
MSA-44B-060221	240-150601-26	UXM37878.D	06/14/2021 15:22
MSA-44C-060221	240-150601-27	UXM37879.D	06/14/2021 15:46
MSA-44D-060221	240-150601-28	UXM37880.D	06/14/2021 16:11
TB-060221	240-150601-29	UXM37881.D	06/14/2021 16:35
MSA-SW46A-060221	240-150601-30	UXM37882.D	06/14/2021 17:00
MSA-SW47A-060221	240-150601-31	UXM37883.D	06/14/2021 17:25
MSA-SW48A-060221	240-150601-32	UXM37884.D	06/14/2021 17:49
MSA-SW49A-060221	240-150601-33	UXM37885.D	06/14/2021 18:14
EL-SW01A-060221	240-150601-34	UXM37886.D	06/14/2021 18:38
EL-SW01B-060221	240-150601-35	UXM37887.D	06/14/2021 19:03
EL-SW01C-060221	240-150601-36	UXM37888.D	06/14/2021 19:27
EL-SW01D-060221	240-150601-37	UXM37889.D	06/14/2021 19:52
	240-150799-B-2 MS	UXM37892.D	06/14/2021 21:05
	240-150799-B-2 MSD	UXM37893.D	06/14/2021 21:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB6676.D BFB Injection Date: 04/23/2021

Instrument ID: A3UX16 BFB Injection Time: 11:11

Analysis Batch No.: 482539

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.1	
75	30.0 - 60.0 % of mass 95	49.3	
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	0.8	(1.0) 1
174	Greater than 50% of mass 95	77.9	
175	5.0 - 9.0 % of mass 174	5.6	(7.2) 1
176	95.0 - 101.0 % of mass 174	75.3	(96.7) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.5) 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 240-482539/9	UXM36559.D	04/23/2021	12:04
	STD8260 240-482539/10	UXM36560.D	04/23/2021	12:28
	STD8260 240-482539/11	UXM36561.D	04/23/2021	12:52
	ICIS 240-482539/12	UXM36562.D	04/23/2021	13:16
	STD8260 240-482539/13	UXM36563.D	04/23/2021	13:40
	STD8260 240-482539/14	UXM36564.D	04/23/2021	14:04
	STD8260 240-482539/15	UXM36565.D	04/23/2021	14:28
	STD8260 240-482539/16	UXM36566.D	04/23/2021	14:53
	ICV 240-482539/17	UXM36567.D	04/23/2021	15:17
	STDA9 240-482539/20	UXM36570.D	04/23/2021	16:29
	STDA9 240-482539/21	UXM36571.D	04/23/2021	16:53
	STDA9 240-482539/22	UXM36572.D	04/23/2021	17:17
	STDA9 240-482539/23	UXM36573.D	04/23/2021	17:42
	STDA9 240-482539/24	UXM36574.D	04/23/2021	18:06
	STDA9 240-482539/25	UXM36575.D	04/23/2021	18:30
	ICV 240-482539/26	UXM36576.D	04/23/2021	18:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB6716.D BFB Injection Date: 06/09/2021

Instrument ID: A3UX16 BFB Injection Time: 08:31

Analysis Batch No.: 489711

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.0	
75	30.0 - 60.0 % of mass 95	45.8	
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	0.5	(0.7) 1
174	Greater than 50% of mass 95	74.2	
175	5.0 - 9.0 % of mass 174	5.5	(7.4) 1
176	95.0 - 101.0 % of mass 174	72.6	(97.8) 1
177	5.0 - 9.0 % of mass 176	4.8	(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
	CCVIS 240-489711/3	UXM37729.D	06/09/2021	8:53
	CCV 240-489711/4	UXM37730.D	06/09/2021	9:17
	LCS 240-489711/5	UXM37731.D	06/09/2021	9:42
	MB 240-489711/8	UXM37734.D	06/09/2021	10:54
MSA-SW37A-060221	240-150601-1	UXM37754.D	06/09/2021	18:57
MSA-SW37B-060221	240-150601-2	UXM37755.D	06/09/2021	19:21
	240-150571-B-1 MS	UXM37756.D	06/09/2021	19:46
	240-150571-B-1 MSD	UXM37757.D	06/09/2021	20:10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB6721.D BFB Injection Date: 06/14/2021

Instrument ID: A3UX16 BFB Injection Time: 09:55

Analysis Batch No.: 490456

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
75	30.0 - 60.0 % of mass 95	46.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	Greater than 50% of mass 95	73.8	
175	5.0 - 9.0 % of mass 174	5.0	(6.7) 1
176	95.0 - 101.0 % of mass 174	72.3	(98.0) 1
177	5.0 - 9.0 % of mass 176	4.3	(6.0) 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
	CCVIS 240-490456/3	UXM37866.D	06/14/2021	10:27
	CCV 240-490456/4	UXM37867.D	06/14/2021	10:52
	LCS 240-490456/5	UXM37868.D	06/14/2021	11:16
	MB 240-490456/8	UXM37871.D	06/14/2021	12:30
MSA-SW43C-060221	240-150601-23	UXM37875.D	06/14/2021	14:08
MSA-43D-060221	240-150601-24	UXM37876.D	06/14/2021	14:32
MSA-44A-060221	240-150601-25	UXM37877.D	06/14/2021	14:57
MSA-44B-060221	240-150601-26	UXM37878.D	06/14/2021	15:22
MSA-44C-060221	240-150601-27	UXM37879.D	06/14/2021	15:46
MSA-44D-060221	240-150601-28	UXM37880.D	06/14/2021	16:11
TB-060221	240-150601-29	UXM37881.D	06/14/2021	16:35
MSA-SW46A-060221	240-150601-30	UXM37882.D	06/14/2021	17:00
MSA-SW47A-060221	240-150601-31	UXM37883.D	06/14/2021	17:25
MSA-SW48A-060221	240-150601-32	UXM37884.D	06/14/2021	17:49
MSA-SW49A-060221	240-150601-33	UXM37885.D	06/14/2021	18:14
EL-SW01A-060221	240-150601-34	UXM37886.D	06/14/2021	18:38
EL-SW01B-060221	240-150601-35	UXM37887.D	06/14/2021	19:03
EL-SW01C-060221	240-150601-36	UXM37888.D	06/14/2021	19:27
EL-SW01D-060221	240-150601-37	UXM37889.D	06/14/2021	19:52
	240-150799-B-2 MS	UXM37892.D	06/14/2021	21:05
	240-150799-B-2 MSD	UXM37893.D	06/14/2021	21:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1289.D BFB Injection Date: 06/10/2021

Instrument ID: A3UX9 BFB Injection Time: 10:18

Analysis Batch No.: 489988

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	47.9	
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	0.2	(0.3) 1
174	Greater than 50% of mass 95	79.0	
175	5.0 - 9.0 % of mass 174	6.0	(7.6) 1
176	95.0 - 101.0 % of mass 174	75.9	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.8) 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 240-489988/8	UX995907.D	06/10/2021	11:06
	STD8260 240-489988/9	UX995908.D	06/10/2021	11:29
	STD8260 240-489988/10	UX995909.D	06/10/2021	11:51
	ICIS 240-489988/11	UX995910.D	06/10/2021	12:14
	STD8260 240-489988/12	UX995911.D	06/10/2021	12:36
	STD8260 240-489988/13	UX995912.D	06/10/2021	12:59
	STD8260 240-489988/14	UX995913.D	06/10/2021	13:21
	ICV 240-489988/15	UX995914.D	06/10/2021	13:44
	STDA9 240-489988/18	UX995917.D	06/10/2021	14:52
	STDA9 240-489988/19	UX995918.D	06/10/2021	15:14
	STDA9 240-489988/20	UX995919.D	06/10/2021	15:37
	STDA9 240-489988/21	UX995920.D	06/10/2021	16:00
	STDA9 240-489988/22	UX995921.D	06/10/2021	16:22
	STDA9 240-489988/23	UX995922.D	06/10/2021	16:45
	ICV 240-489988/24	UX995923.D	06/10/2021	17:07

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1291.D BFB Injection Date: 06/13/2021

Instrument ID: A3UX9 BFB Injection Time: 09:29

Analysis Batch No.: 490350

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	47.0	
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	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.9	
175	5.0 - 9.0 % of mass 174	6.1	(7.4) 1
176	95.0 - 101.0 % of mass 174	79.9	(96.4) 1
177	5.0 - 9.0 % of mass 176	5.1	(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
	CCVIS 240-490350/4	UX995979.D	06/13/2021	9:59
	CCV 240-490350/5	UX995980.D	06/13/2021	10:22
	LCS 240-490350/6	UX995981.D	06/13/2021	10:45
	MB 240-490350/9	UX995984.D	06/13/2021	11:53
	LCSD 240-490350/10	UX995985.D	06/13/2021	12:15
MSA-SW37C-060221	240-150601-3	UX995986.D	06/13/2021	12:38
MSA-SW37D-060221	240-150601-4	UX995987.D	06/13/2021	13:00
MSA-SW38A-060221	240-150601-5	UX995988.D	06/13/2021	13:23
MSA-SW38B-060221	240-150601-6	UX995989.D	06/13/2021	13:45
MSA-SW38C-060221	240-150601-7	UX995990.D	06/13/2021	14:08
MSA-SW38D-060221	240-150601-8	UX995991.D	06/13/2021	14:31
MSA-SW40A-060221	240-150601-9	UX995992.D	06/13/2021	14:53
MSA-SW40B-060221	240-150601-10	UX995993.D	06/13/2021	15:16
MSA-SW40C-060221	240-150601-11	UX995994.D	06/13/2021	15:39
MSA-SW40D-060221	240-150601-12	UX995995.D	06/13/2021	16:01
MSA-SW41A-060221	240-150601-13	UX995996.D	06/13/2021	16:24
MSA-SW41B-060221	240-150601-14	UX995997.D	06/13/2021	16:46
MSA-SW41C-060221	240-150601-15	UX995998.D	06/13/2021	17:09
MSA-SW41D-060221	240-150601-16	UX995999.D	06/13/2021	17:31
MSA-SW42A-060221	240-150601-17	UX996000.D	06/13/2021	17:54
MSA-SW42B-060221	240-150601-18	UX996001.D	06/13/2021	18:17
MSA-SW42C-060221	240-150601-19	UX996002.D	06/13/2021	18:39
MSA-SW42D-060221	240-150601-20	UX996003.D	06/13/2021	19:02
MSA-SW43A-060221	240-150601-21	UX996004.D	06/13/2021	19:25
MSA-SW43B-060221	240-150601-22	UX996005.D	06/13/2021	19:47

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Sample No.: ICIS 240-482539/12 Date Analyzed: 04/23/2021 13:16

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM36562.D Heated Purge: (Y/N) N

Calibration ID: 61157

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1453811	5.85	1138182	8.56	621051	10.84
UPPER LIMIT		2907622	6.35	2276364	9.06	1242102	11.34
LOWER LIMIT		726906	5.35	569091	8.06	310526	10.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-482539/17		1382486	5.85	1086217	8.56	592489	10.83
ICV 240-482539/26		1313582	5.85	1020282	8.56	546295	10.84
CCVIS 240-489711/3		924421	5.85	728461	8.56	402786	10.84
CCVIS 240-490456/3		922482	5.85	708663	8.56	374558	10.84

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-489711/3 Date Analyzed: 06/09/2021 08:53

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM37729.D Heated Purge: (Y/N) N

Calibration ID: 61161

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		924421	5.85	728461	8.56	402786	10.84
UPPER LIMIT		1848842	6.35	1456922	9.06	805572	11.34
LOWER LIMIT		462211	5.35	364231	8.06	201393	10.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-489711/4		860607	5.85	684704	8.56	379904	10.84
LCS 240-489711/5		876507	5.85	703162	8.56	383935	10.84
MB 240-489711/8		783118	5.85	659376	8.56	368575	10.84
240-150601-1	MSA-SW37A-060221	857501	5.85	689310	8.56	378356	10.84
240-150601-2	MSA-SW37B-060221	835659	5.85	679613	8.56	374494	10.84
240-150571-B-1 MS		861616	5.85	686391	8.56	380469	10.84
240-150571-B-1 MSD		891768	5.85	690931	8.56	365230	10.84

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-490456/3 Date Analyzed: 06/14/2021 10:27

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM37866.D Heated Purge: (Y/N) N

Calibration ID: 61161

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		922482	5.85	708663	8.56	374558	10.84
UPPER LIMIT		1844964	6.35	1417326	9.06	749116	11.34
LOWER LIMIT		461241	5.35	354332	8.06	187279	10.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-490456/4		916230	5.85	695739	8.56	367252	10.84
LCS 240-490456/5		903230	5.85	692125	8.56	358328	10.84
MB 240-490456/8		739502	5.85	617291	8.56	341903	10.84
240-150601-23	MSA-SW43C-060221	757607	5.85	616873	8.56	340034	10.84
240-150601-24	MSA-43D-060221	786175	5.85	630038	8.56	351134	10.84
240-150601-25	MSA-44A-060221	754417	5.85	622994	8.56	348330	10.84
240-150601-26	MSA-44B-060221	731028	5.85	615043	8.56	343122	10.84
240-150601-27	MSA-44C-060221	726199	5.85	609799	8.56	341307	10.84
240-150601-28	MSA-44D-060221	745471	5.85	624272	8.56	350971	10.84
240-150601-29	TB-060221	748655	5.85	620694	8.56	348843	10.84
240-150601-30	MSA-SW46A-060221	764771	5.85	626016	8.56	344122	10.84
240-150601-31	MSA-SW47A-060221	754048	5.85	622194	8.56	352715	10.84
240-150601-32	MSA-SW48A-060221	723741	5.85	606451	8.56	344820	10.84
240-150601-33	MSA-SW49A-060221	771906	5.85	639996	8.56	353413	10.84
240-150601-34	EL-SW01A-060221	737408	5.85	615867	8.56	349371	10.84
240-150601-35	EL-SW01B-060221	760795	5.85	630540	8.56	357884	10.84
240-150601-36	EL-SW01C-060221	779039	5.85	634139	8.56	362383	10.84
240-150601-37	EL-SW01D-060221	727721	5.85	609694	8.56	348617	10.84
240-150799-B-2 MS		870250	5.85	689110	8.56	370227	10.84
240-150799-B-2 MSD		845864	5.85	672681	8.56	357625	10.84

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Sample No.: ICIS 240-489988/11 Date Analyzed: 06/10/2021 12:14

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX995910.D Heated Purge: (Y/N) N

Calibration ID: 61676

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		941178	5.88	801095	8.58	446290	10.81
UPPER LIMIT		1882356	6.38	1602190	9.08	892580	11.31
LOWER LIMIT		470589	5.38	400548	8.08	223145	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-489988/15		929239	5.88	776727	8.58	432080	10.81
ICV 240-489988/24		967002	5.88	791268	8.58	415827	10.81
CCVIS 240-490350/4		870833	5.88	726909	8.58	408169	10.82

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-490350/4 Date Analyzed: 06/13/2021 09:59

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX995979.D Heated Purge: (Y/N) N

Calibration ID: 61680

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		870833	5.88	726909	8.58	408169	10.82
UPPER LIMIT		1741666	6.38	1453818	9.08	816338	11.32
LOWER LIMIT		435417	5.38	363455	8.08	204085	10.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-490350/5		958818	5.88	776651	8.58	413267	10.81
LCS 240-490350/6		952410	5.88	790833	8.58	441723	10.81
MB 240-490350/9		873490	5.88	721448	8.57	382232	10.81
LCSD 240-490350/10		931353	5.88	783959	8.58	448960	10.81
240-150601-3	MSA-SW37C-060221	874964	5.88	706593	8.57	362427	10.82
240-150601-4	MSA-SW37D-060221	806998	5.88	657506	8.57	338468	10.81
240-150601-5	MSA-SW38A-060221	809764	5.88	661136	8.58	348554	10.81
240-150601-6	MSA-SW38B-060221	781699	5.88	639911	8.58	328144	10.81
240-150601-7	MSA-SW38C-060221	767138	5.88	622794	8.58	324702	10.81
240-150601-8	MSA-SW38D-060221	727512	5.88	581366	8.58	291814	10.81
240-150601-9	MSA-SW40A-060221	725976	5.88	593331	8.58	311692	10.81
240-150601-10	MSA-SW40B-060221	707259	5.88	581928	8.58	298548	10.81
240-150601-11	MSA-SW40C-060221	699174	5.88	567459	8.58	292521	10.81
240-150601-12	MSA-SW40D-060221	681917	5.88	552704	8.58	279987	10.81
240-150601-13	MSA-SW41A-060221	629056	5.88	514525	8.58	269348	10.81
240-150601-14	MSA-SW41B-060221	607448	5.88	488648	8.57	253309	10.82
240-150601-15	MSA-SW41C-060221	590543	5.88	482389	8.57	246952	10.82
240-150601-16	MSA-SW41D-060221	629283	5.88	518698	8.58	270695	10.81
240-150601-17	MSA-SW42A-060221	619440	5.88	499797	8.58	264988	10.81
240-150601-18	MSA-SW42B-060221	552195	5.88	458839	8.58	234646	10.81
240-150601-19	MSA-SW42C-060221	593529	5.88	490362	8.58	257079	10.81
240-150601-20	MSA-SW42D-060221	603117	5.88	494055	8.58	253128	10.81
240-150601-21	MSA-SW43A-060221	538891	5.88	437403	8.58	234725	10.81
240-150601-22	MSA-SW43B-060221	602550	5.88	493594	8.58	258147	10.82

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-060221 Lab Sample ID: 240-150601-1

Matrix: Water Lab File ID: UXM37754.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:29

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 18:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-060221 Lab Sample ID: 240-150601-1

Matrix: Water Lab File ID: UXM37754.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:29

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 18:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-060221 Lab Sample ID: 240-150601-1

Matrix: Water Lab File ID: UXM37754.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:29

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 18:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 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)	99		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-130
2037-26-5	Toluene-d8 (Surr)	98		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-060221 Lab Sample ID: 240-150601-1

Matrix: Water Lab File ID: UXM37754.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:29

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 18:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-060221 Lab Sample ID: 240-150601-1

Matrix: Water Lab File ID: UXM37754.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:29

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 18:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 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\20210609-110052.b\UXM37754.D
Lims ID: 240-150601-B-1
Client ID: MSA-SW37A-060221
Sample Type: Client
Inject. Date: 09-Jun-2021 18:57:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-028
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Jun-2021 07:57:28 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bosworthh Date: 10-Jun-2021 11:23:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	857501	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	689310	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	378356	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.265	0.011	94	233234	22.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	250320	20.4	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	929828	22.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	88	388246	24.0	
9 Dichlorodifluoromethane	85		1.707				ND	
10 Chloromethane	50		1.897				ND	
11 Vinyl chloride	62		2.015				ND	7
13 Bromomethane	94		2.359				ND	7
14 Chloroethane	64		2.478				ND	
16 Trichlorofluoromethane	101		2.727				ND	
19 1,1-Dichloroethene	96		3.237				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.249				ND	
21 Acetone	58		3.284				ND	
24 Carbon disulfide	76		3.450				ND	
28 Methylene Chloride	84		3.711				ND	
29 2-Methyl-2-propanol	59		3.794				ND	
31 Methyl tert-butyl ether	73		3.936				ND	
32 trans-1,2-Dichloroethene	96		3.960				ND	
35 Vinyl acetate	43		4.340				ND	
34 1,1-Dichloroethane	63		4.351				ND	
36 Isopropyl ether	87		4.363				ND	
38 Tert-butyl ethyl ether	59		4.683				ND	
40 2-Butanone (MEK)	72		4.826				ND	
39 cis-1,2-Dichloroethene	96		4.849				ND	
41 2,2-Dichloropropane	77		4.849				ND	
45 Chlorobromomethane	128		5.051				ND	
47 Chloroform	83		5.134				ND	
48 1,1,1-Trichloroethane	97		5.288				ND	
51 Carbon tetrachloride	117		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.419				ND	
54 Benzene	78		5.597				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.680				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.450				ND	
65 Dichlorobromomethane	83		6.605				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.103				ND	
70 Toluene	91	7.281	7.280	0.001	97	8774	0.1777	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.814				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.368				ND	
89 Isopropylbenzene	105		9.510				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	7
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.973				ND	
117 Naphthalene	128		13.115				ND	7
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

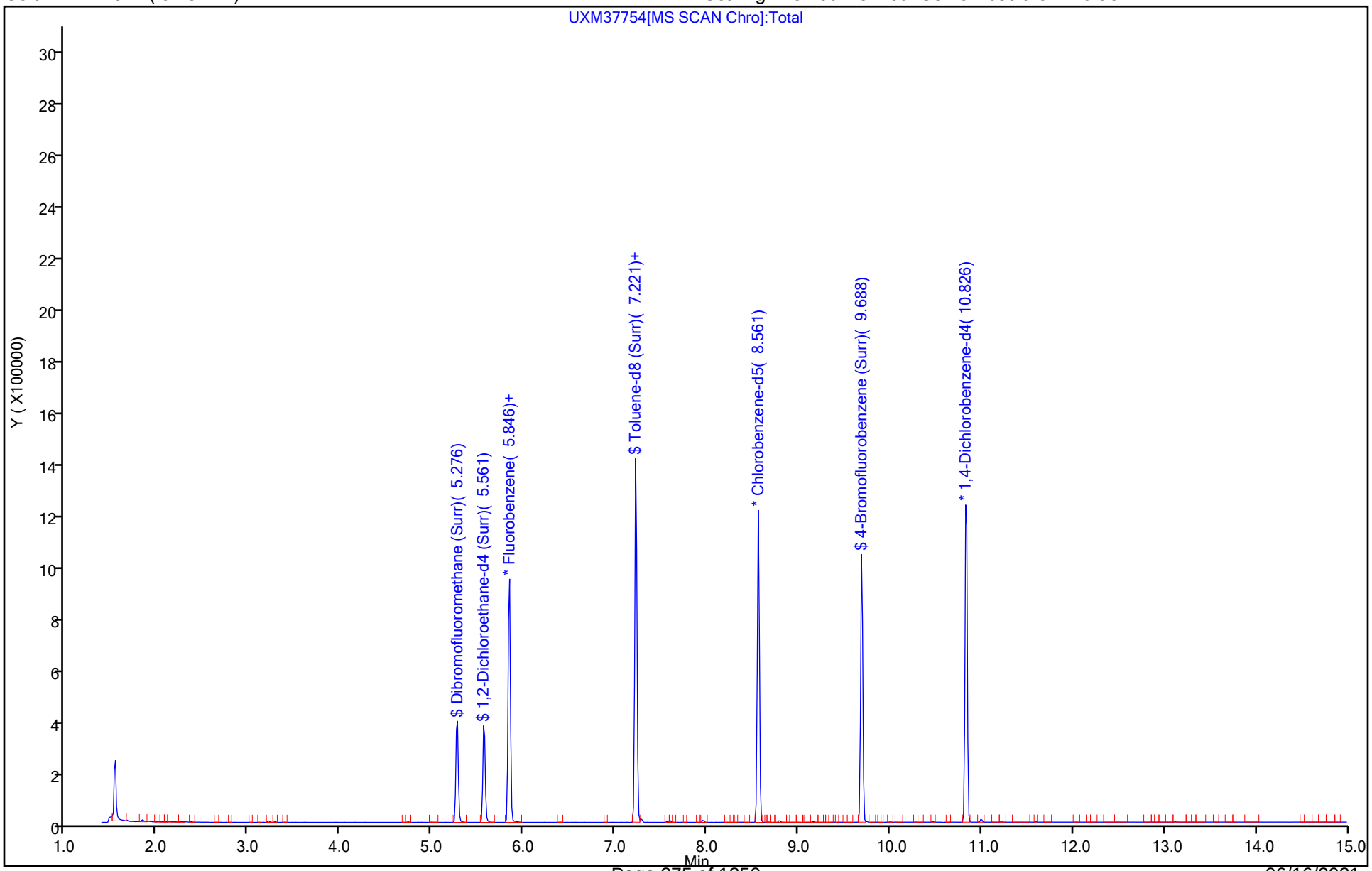
Report Date: 10-Jun-2021 11:23:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37754.D

Injection Date:	09-Jun-2021 18:57:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-1	Lab Sample ID:	240-150601-1	Worklist Smp#:	28
Client ID:	MSA-SW37A-060221				
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\20210609-110052.b\UXM37754.D
Lims ID: 240-150601-B-1
Client ID: MSA-SW37A-060221
Sample Type: Client
Inject. Date: 09-Jun-2021 18:57:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-028
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Jun-2021 07:57:28 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1622

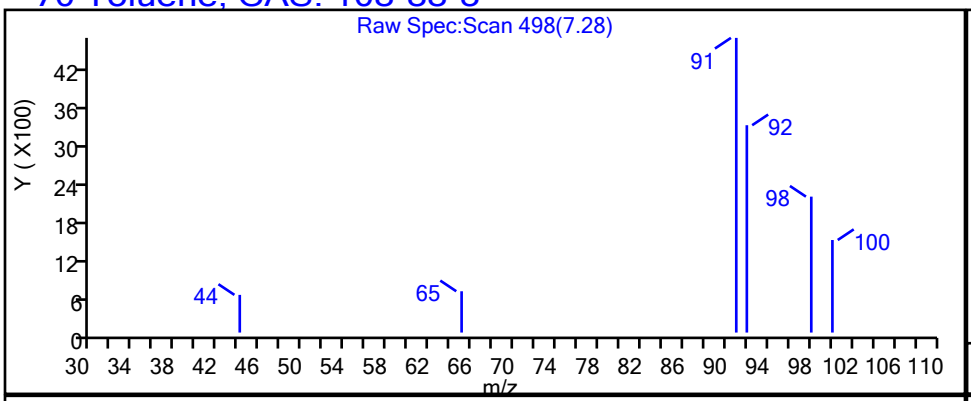
First Level Reviewer: bosworthh Date: 10-Jun-2021 11:23:32

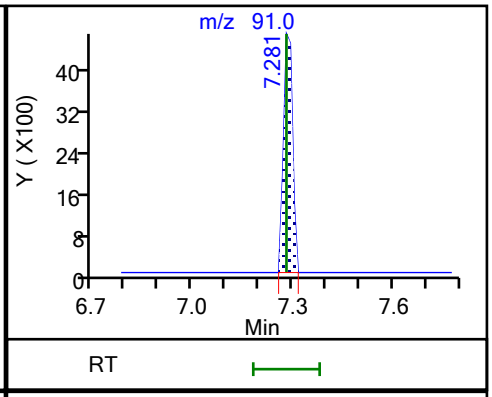
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.4	98.81
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.4	89.83
$ 6 Toluene-d8 (Surr)	22.7	22.1	97.56
$ 7 4-Bromofluorobenzene (Surr)	22.7	24.0	105.93

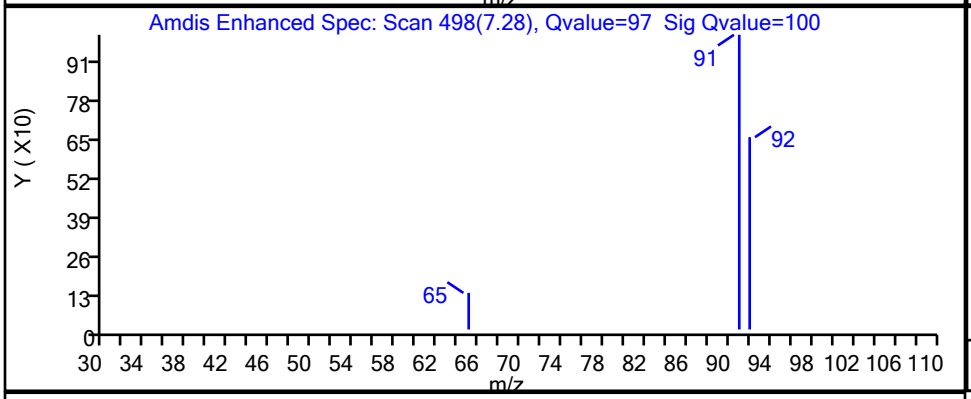
Eurofins TestAmerica, Canton

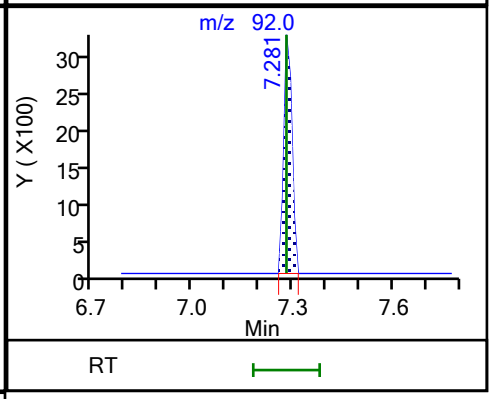
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37754.D		
Injection Date:	09-Jun-2021 18:57:30	Instrument ID:	A3UX16
Lims ID:	240-150601-B-1	Lab Sample ID:	240-150601-1
Client ID:	MSA-SW37A-060221		
Operator ID:	001765	ALS Bottle#:	28 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

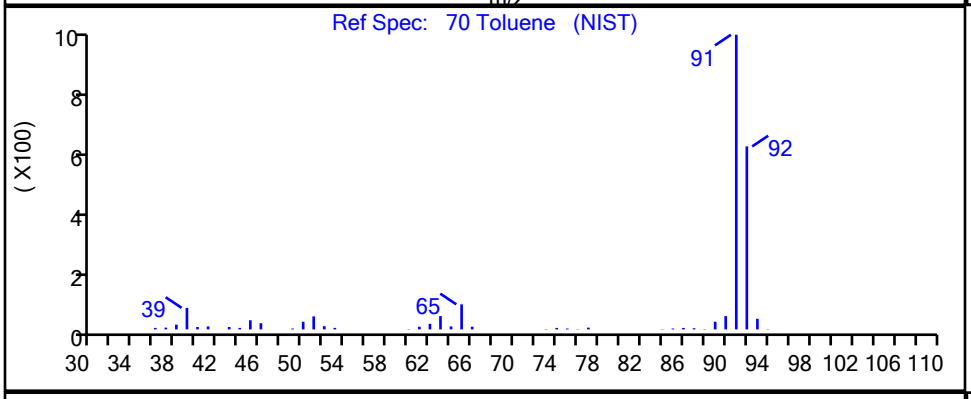
70 Toluene, CAS: 108-88-3

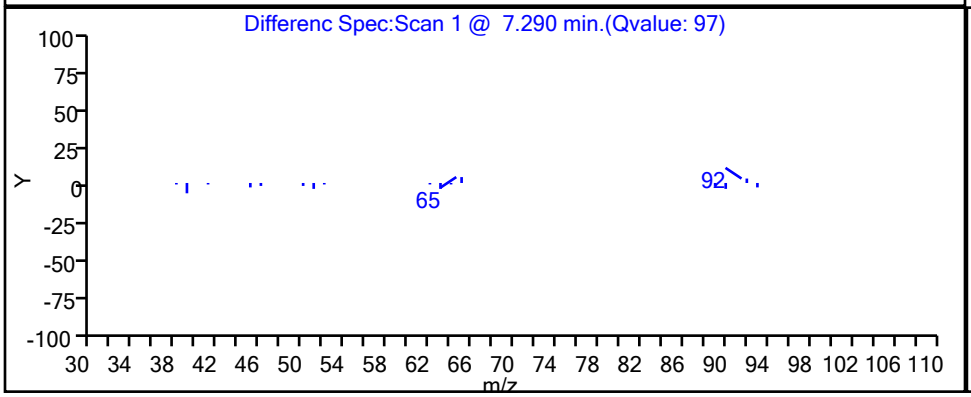


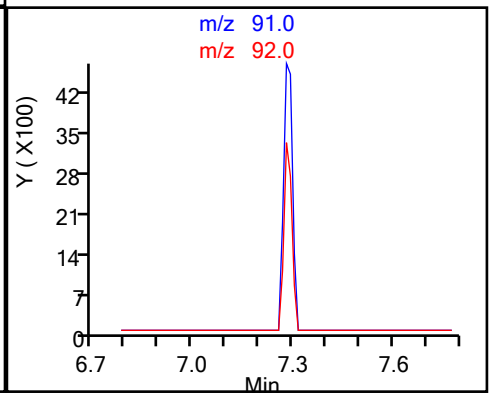












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-060221 Lab Sample ID: 240-150601-2

Matrix: Water Lab File ID: UXM37755.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:34

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 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.: 489711 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-060221 Lab Sample ID: 240-150601-2

Matrix: Water Lab File ID: UXM37755.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:34

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 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.: 489711 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-060221 Lab Sample ID: 240-150601-2

Matrix: Water Lab File ID: UXM37755.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:34

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 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.: 489711 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)	99		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-130
2037-26-5	Toluene-d8 (Surr)	98		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-060221 Lab Sample ID: 240-150601-2

Matrix: Water Lab File ID: UXM37755.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:34

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 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.: 489711 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-060221 Lab Sample ID: 240-150601-2

Matrix: Water Lab File ID: UXM37755.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:34

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 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.: 489711 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\20210609-110052.b\UXM37755.D
Lims ID: 240-150601-B-2
Client ID: MSA-SW37B-060221
Sample Type: Client
Inject. Date: 09-Jun-2021 19:21:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-029
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Jun-2021 18:03:21 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bosworthh Date: 10-Jun-2021 07:32:52

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.846	5.846	0.000	99	835659	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	679613	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	374494	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.265	0.011	93	228393	22.5	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	244403	20.4	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	923771	22.3	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	88	379865	23.8	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.237				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.249				ND	
	21 Acetone	58		3.284				ND	
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.936				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.340				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	51 Carbon tetrachloride	117		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.419				ND	
54 Benzene	78		5.597				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.680				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.450				ND	
65 Dichlorobromomethane	83		6.605				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.103				ND	
70 Toluene	91		7.280				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.814				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.368				ND	
89 Isopropylbenzene	105		9.510				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.973				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

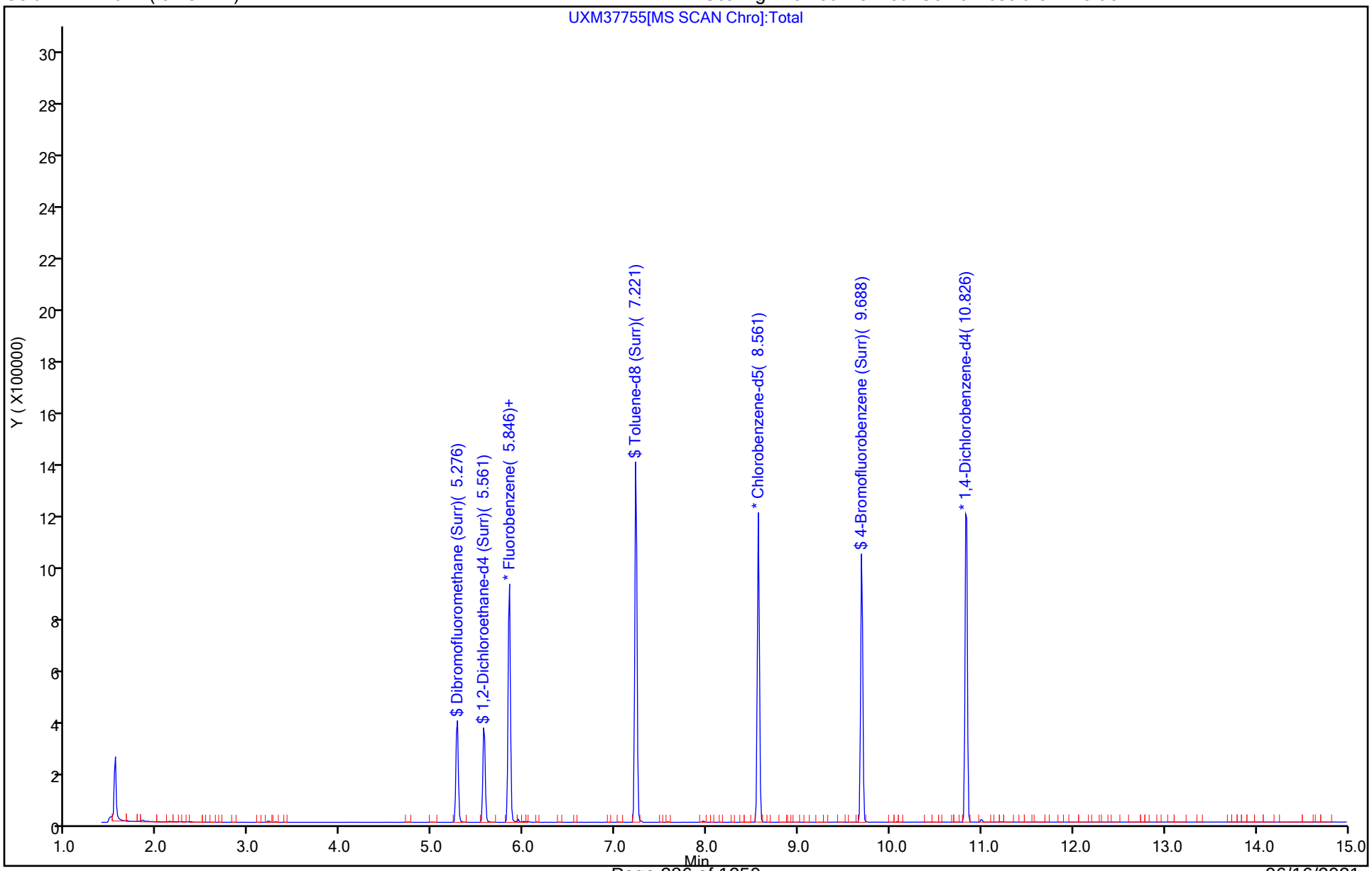
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Report Date: 10-Jun-2021 07:32:52 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37755.D				
Injection Date:	09-Jun-2021 19:21:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-2	Lab Sample ID:	240-150601-2	Worklist Smp#:	29
Client ID:	MSA-SW37B-060221				
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\20210609-110052.b\UXM37755.D				
Lims ID:	240-150601-B-2				
Client ID:	MSA-SW37B-060221				
Sample Type:	Client				
Inject. Date:	09-Jun-2021 19:21:30	ALS Bottle#:	29	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110052-029				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	09-Jun-2021 18:03:21	Calib Date:	23-Apr-2021 18:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1622				

First Level Reviewer: bosworthh Date: 10-Jun-2021 07:32:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.5	99.29
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.4	90.00
$ 6 Toluene-d8 (Surr)	22.7	22.3	98.31
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.8	105.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-060221 Lab Sample ID: 240-150601-3

Matrix: Water Lab File ID: UX995986.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:38

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 12:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-060221 Lab Sample ID: 240-150601-3

Matrix: Water Lab File ID: UX995986.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:38

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 12:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-060221 Lab Sample ID: 240-150601-3

Matrix: Water Lab File ID: UX995986.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:38

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 12:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	93		47-134
1868-53-7	Dibromofluoromethane (Surr)	97		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-060221 Lab Sample ID: 240-150601-3

Matrix: Water Lab File ID: UX995986.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:38

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 12:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-060221 Lab Sample ID: 240-150601-3

Matrix: Water Lab File ID: UX995986.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:38

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 12:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC	2.35	1.0	U	1%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995986.D
Lims ID: 240-150601-B-3
Client ID: MSA-SW37C-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 12:38:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-011
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:53:14 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:53:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.876	5.879	-0.003	99	874964	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.577	-0.003	85	706593	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.822	10.813	0.009	95	362427	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.284	5.287	-0.003	93	423577	19.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.580	5.583	-0.003	99	444392	17.9	
$ 6 Toluene-d8 (Surr)	98	7.260	7.251	0.009	92	1710343	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.677	0.009	91	620723	18.6	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50	1.959	1.952	0.007	34	2396	0.1066	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94	2.456	2.437	0.019	25	2910	0.1613	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.367	3.360	0.007	67	3247	1.22	
26 Carbon disulfide	76	3.533	3.537	-0.004	95	7436	0.1278	
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91	7.308	7.312	-0.004	97	9902	0.0990	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	7
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	7
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	7
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	7
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128	13.094	13.087	0.007	88	7691	0.1250	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51	2.350	2.413	-0.063	1	876	0.0200	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

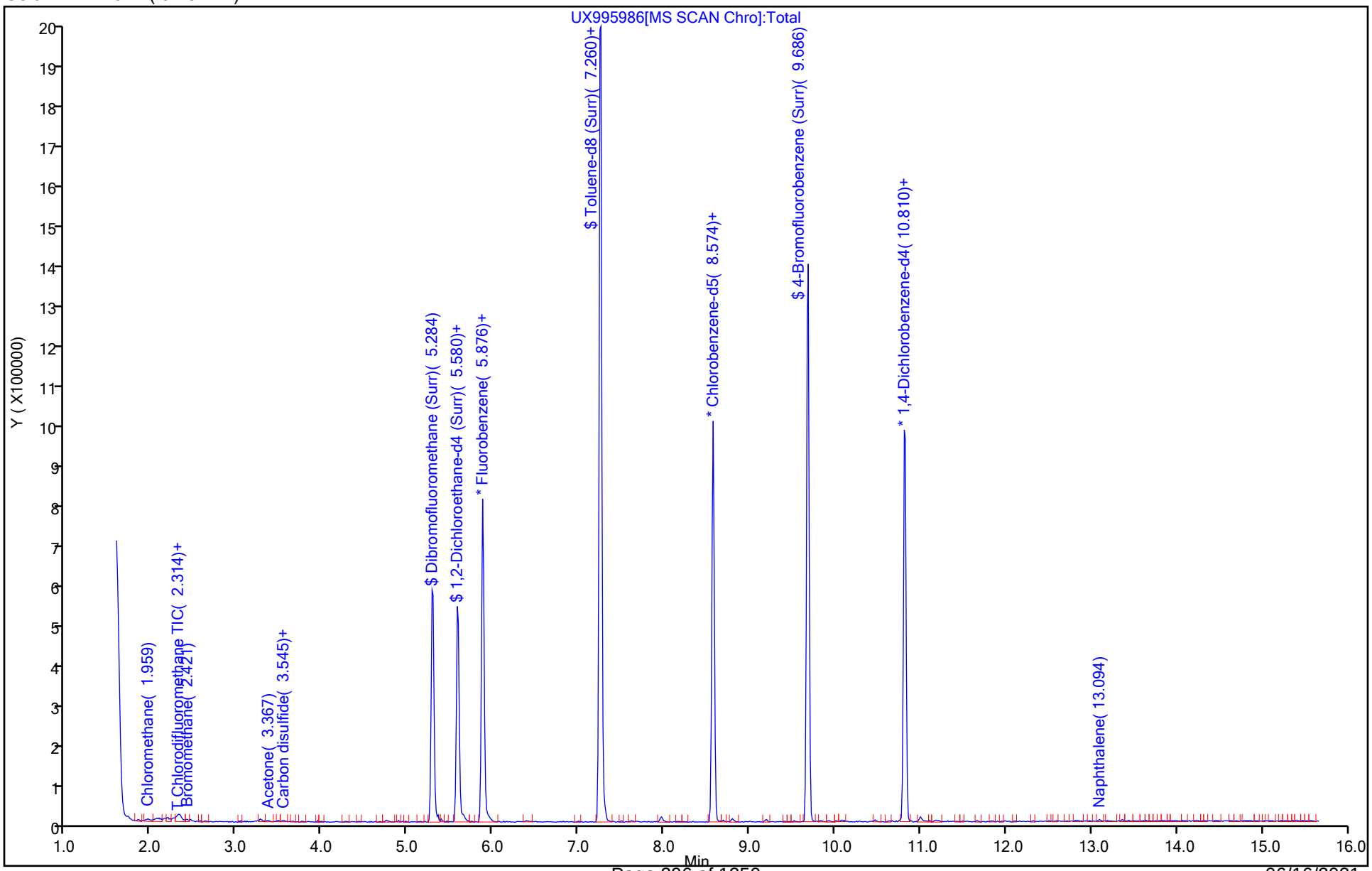
Report Date: 14-Jun-2021 07:53:52 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995986.D

Injection Date:	13-Jun-2021 12:38:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-3	Lab Sample ID:	240-150601-3	Worklist Smp#:	11
Client ID:	MSA-SW37C-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995986.D				
Lims ID:	240-150601-B-3				
Client ID:	MSA-SW37C-060221				
Sample Type:	Client				
Inject. Date:	13-Jun-2021 12:38:30	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110195-011				
Operator ID:	001765	Instrument ID:	A3UX9		
Method:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	14-Jun-2021 07:53:14	Calib Date:	10-Jun-2021 16:45:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1641				

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:53:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	19.4	96.86
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	17.9	89.32
$ 6 Toluene-d8 (Surr)	20.0	20.1	100.69
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.6	93.22

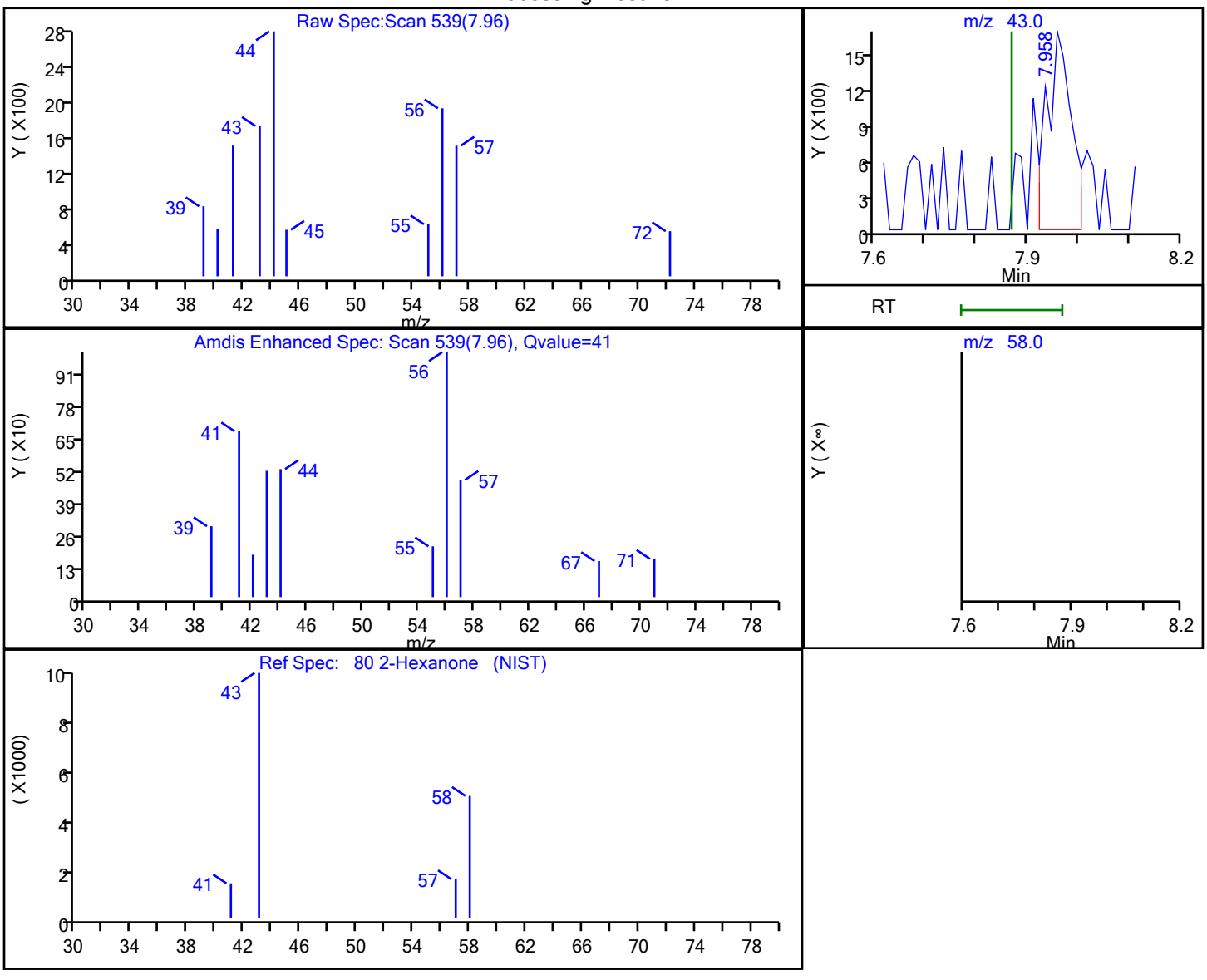
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995986.D				
Injection Date:	13-Jun-2021 12:38:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-3	Lab Sample ID:	240-150601-3		
Client ID:	MSA-SW37C-060221				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.96	43.00	5728	0.546794
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 07:52:03

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-060221 Lab Sample ID: 240-150601-4

Matrix: Water Lab File ID: UX995987.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:43

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-060221 Lab Sample ID: 240-150601-4

Matrix: Water Lab File ID: UX995987.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:43

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-060221 Lab Sample ID: 240-150601-4

Matrix: Water Lab File ID: UX995987.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:43

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	104		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	110		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-060221 Lab Sample ID: 240-150601-4

Matrix: Water Lab File ID: UX995987.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:43

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-060221 Lab Sample ID: 240-150601-4

Matrix: Water Lab File ID: UX995987.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:43

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX995987.D
Lims ID: 240-150601-B-4
Client ID: MSA-SW37D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 13:00:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-012
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:53:14 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:54:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.876	5.879	-0.003	99	806998	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.577	-0.003	85	657506	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.813	-0.002	96	338468	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	93	419370	20.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.580	5.583	-0.003	100	453447	19.8	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	92	1734755	22.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	88	645722	20.8	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	7
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.356	3.360	-0.004	34	2370	0.7297	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	7
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	7
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	7
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

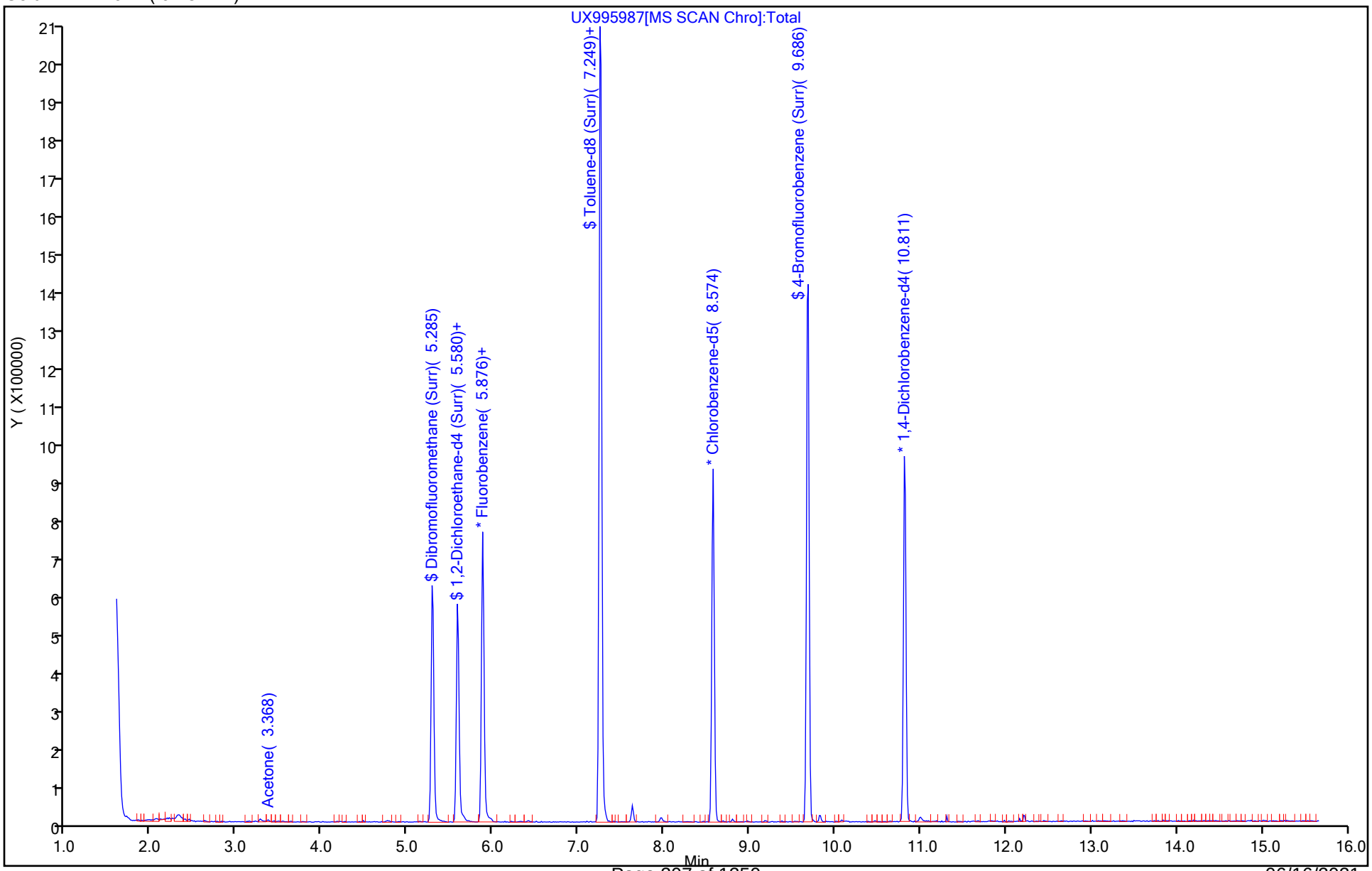
Report Date: 14-Jun-2021 07:54:18 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995987.D

Injection Date:	13-Jun-2021 13:00:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-4	Lab Sample ID:	240-150601-4	Worklist Smp#:	12
Client ID:	MSA-SW37D-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995987.D
Lims ID: 240-150601-B-4
Client ID: MSA-SW37D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 13:00:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-012
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:53:14 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:54:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.8	103.98
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.8	98.82
$ 6 Toluene-d8 (Surr)	20.0	22.0	109.75
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.8	104.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-060221 Lab Sample ID: 240-150601-5

Matrix: Water Lab File ID: UX995988.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-060221 Lab Sample ID: 240-150601-5

Matrix: Water Lab File ID: UX995988.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-060221 Lab Sample ID: 240-150601-5

Matrix: Water Lab File ID: UX995988.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
2037-26-5	Toluene-d8 (Surr)	108		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-060221 Lab Sample ID: 240-150601-5

Matrix: Water Lab File ID: UX995988.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-060221 Lab Sample ID: 240-150601-5

Matrix: Water Lab File ID: UX995988.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX995988.D
Lims ID: 240-150601-B-5
Client ID: MSA-SW38A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 13:23:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-013
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:55:03 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:55:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.880	5.879	0.001	99	809764	20.0	
* 2 Chlorobenzene-d5	117	8.577	8.577	0.000	85	661136	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.813	0.001	95	348554	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.288	5.287	0.001	93	425130	21.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.584	5.583	0.001	100	461354	20.0	
$ 6 Toluene-d8 (Surr)	98	7.252	7.251	0.001	92	1723188	21.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.678	9.677	0.001	87	645267	20.7	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	7
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.371	3.360	0.011	84	3676	1.75	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	7
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

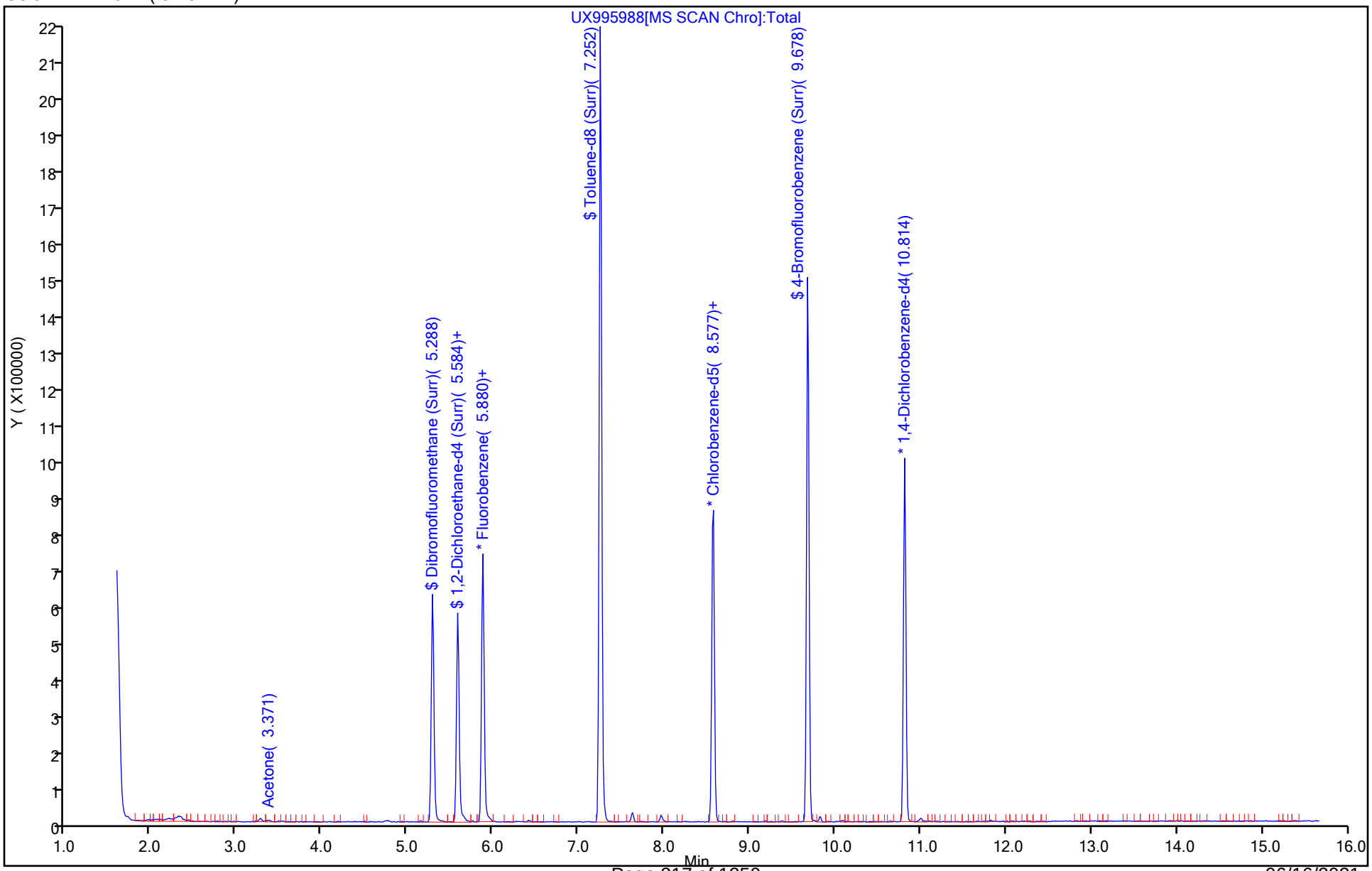
Report Date: 14-Jun-2021 07:55:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995988.D

Injection Date:	13-Jun-2021 13:23:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-5	Lab Sample ID:	240-150601-5	Worklist Smp#:	13
Client ID:	MSA-SW38A-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995988.D
Lims ID: 240-150601-B-5
Client ID: MSA-SW38A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 13:23:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-013
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:55:03 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:55:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.0	105.05
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.0	100.20
$ 6 Toluene-d8 (Surr)	20.0	21.7	108.42
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.7	103.57

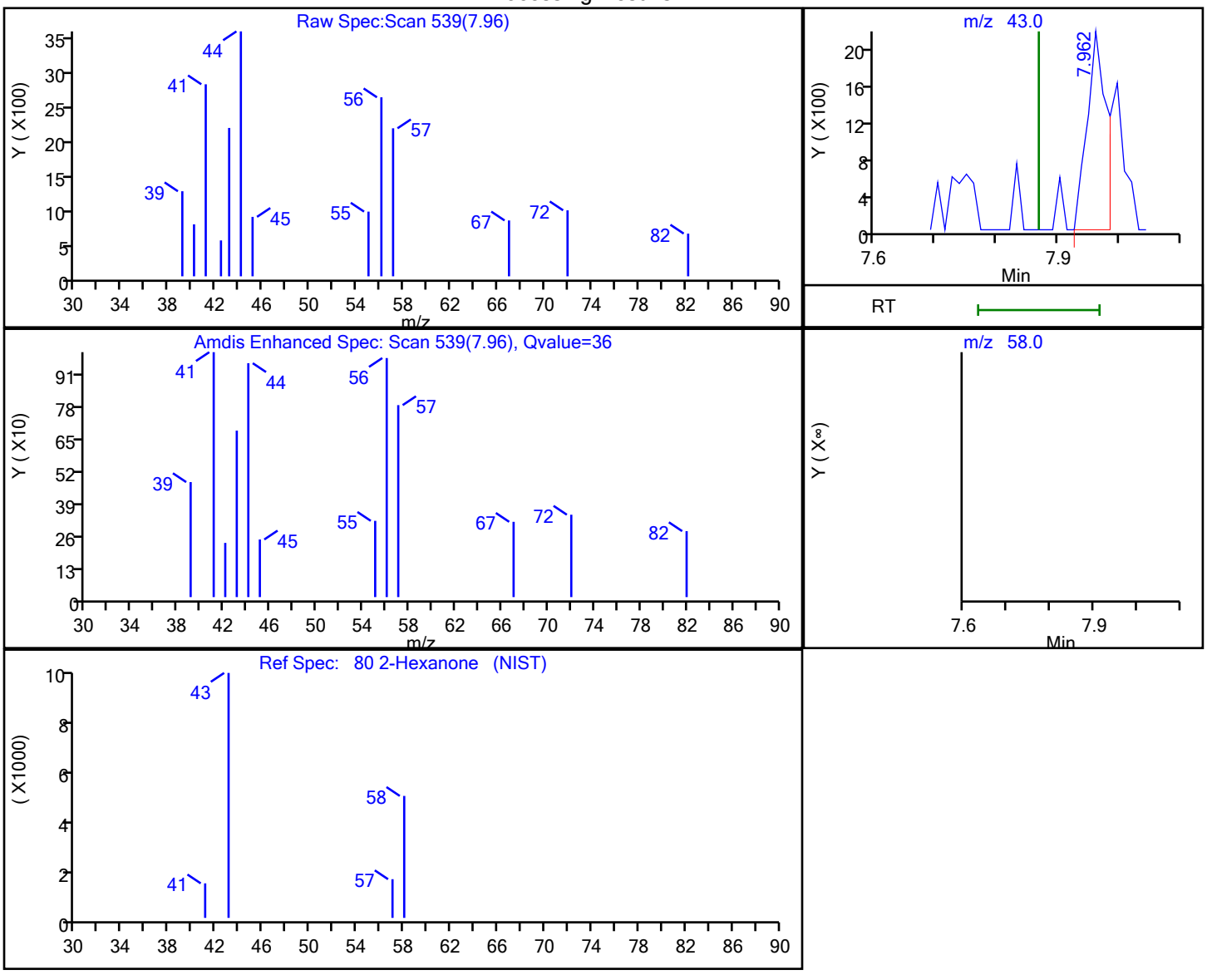
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995988.D				
Injection Date:	13-Jun-2021 13:23:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-5	Lab Sample ID:	240-150601-5		
Client ID:	MSA-SW38A-060221				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.96	43.00	4824	0.492160
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 07:54:35

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-060221 Lab Sample ID: 240-150601-6

Matrix: Water Lab File ID: UX995989.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:28

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-060221 Lab Sample ID: 240-150601-6

Matrix: Water Lab File ID: UX995989.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:28

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-060221 Lab Sample ID: 240-150601-6

Matrix: Water Lab File ID: UX995989.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:28

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
2037-26-5	Toluene-d8 (Surr)	106		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-060221 Lab Sample ID: 240-150601-6

Matrix: Water Lab File ID: UX995989.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:28

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-060221 Lab Sample ID: 240-150601-6

Matrix: Water Lab File ID: UX995989.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:28

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 13:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX995989.D
Lims ID: 240-150601-B-6
Client ID: MSA-SW38B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 13:45:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-014
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:55:43 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:55:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.880	5.879	0.001	99	781699	20.0	
* 2 Chlorobenzene-d5	117	8.578	8.577	0.001	85	639911	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.813	0.001	95	328144	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.288	5.287	0.001	93	401149	20.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.584	5.583	0.001	100	427633	19.2	
$ 6 Toluene-d8 (Surr)	98	7.252	7.251	0.001	92	1637621	21.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.678	9.677	0.001	88	602566	20.0	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	7
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.359	3.360	-0.001	91	3212	1.48	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	7
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

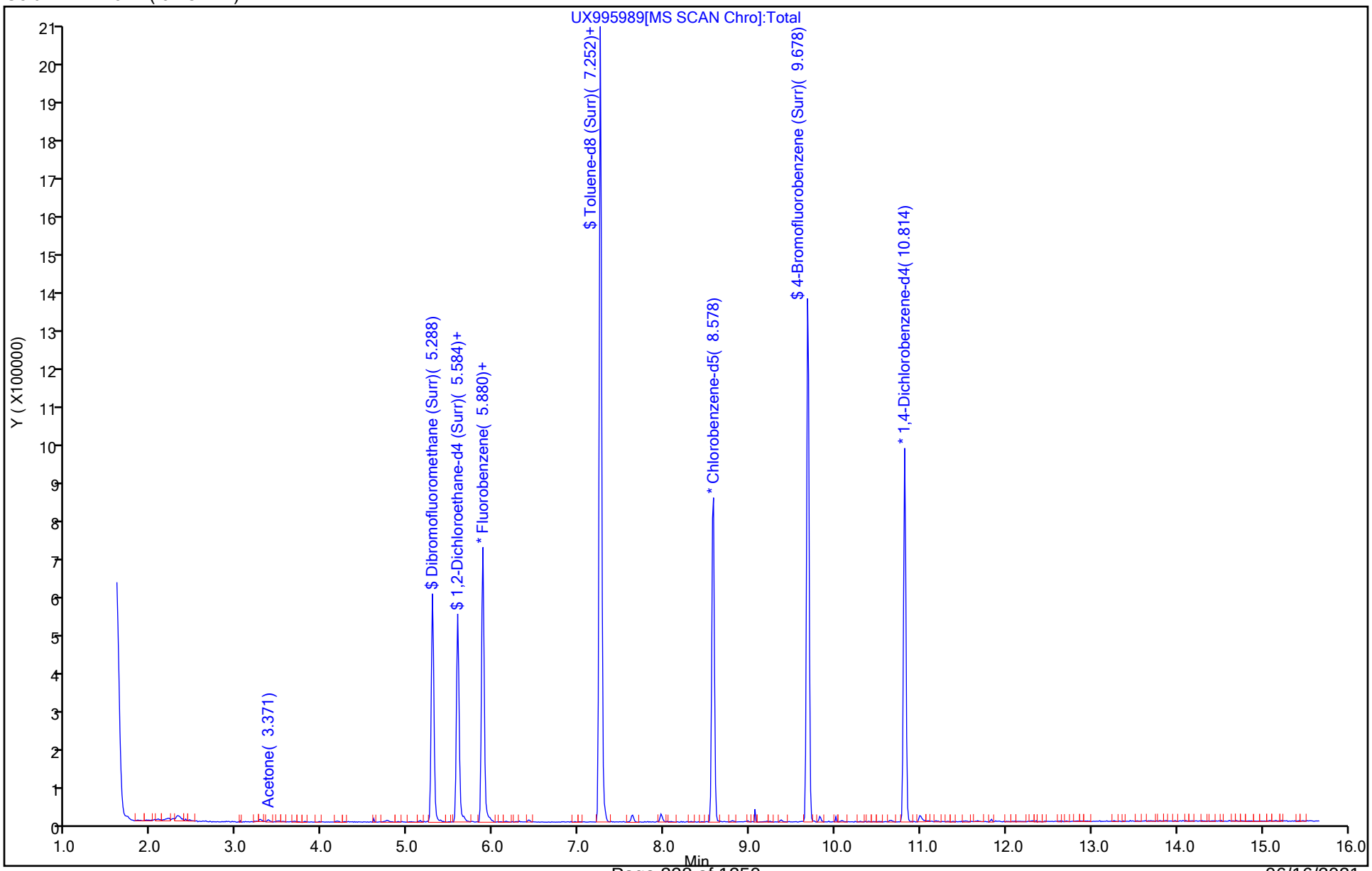
Report Date: 14-Jun-2021 07:55:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995989.D

Injection Date:	13-Jun-2021 13:45:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-6	Lab Sample ID:	240-150601-6	Worklist Smp#:	14
Client ID:	MSA-SW38B-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995989.D
Lims ID: 240-150601-B-6
Client ID: MSA-SW38B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 13:45:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-014
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:55:43 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:55:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.5	102.68
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.2	96.21
$ 6 Toluene-d8 (Surr)	20.0	21.3	106.46
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.0	99.92

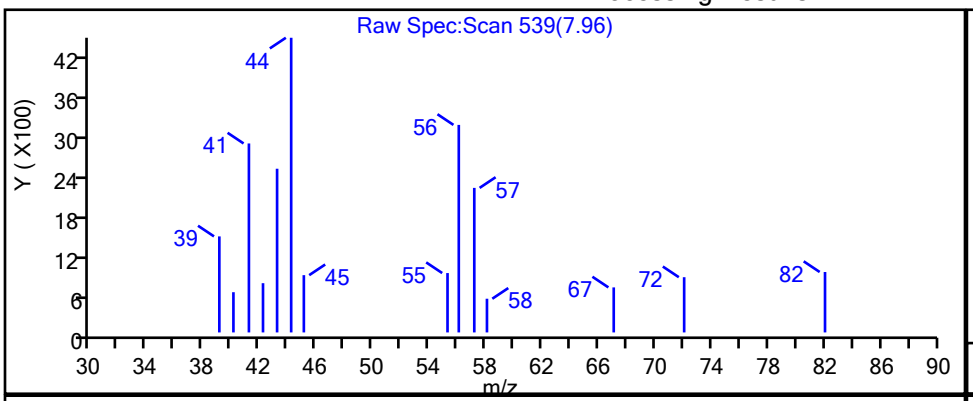
User Disabled Compound Report

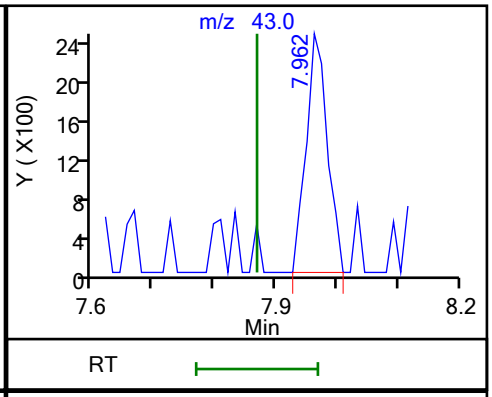
Eurofins TestAmerica, Canton

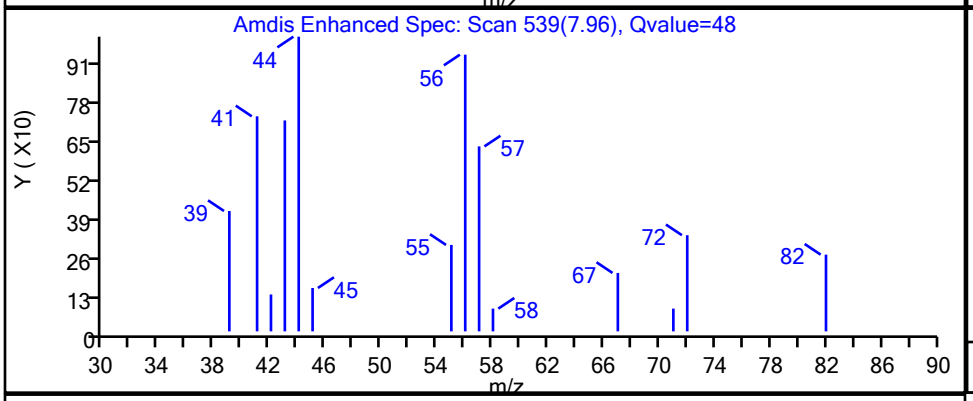
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995989.D				
Injection Date:	13-Jun-2021 13:45:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-6	Lab Sample ID:	240-150601-6		
Client ID:	MSA-SW38B-060221				
Operator ID:	001765	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

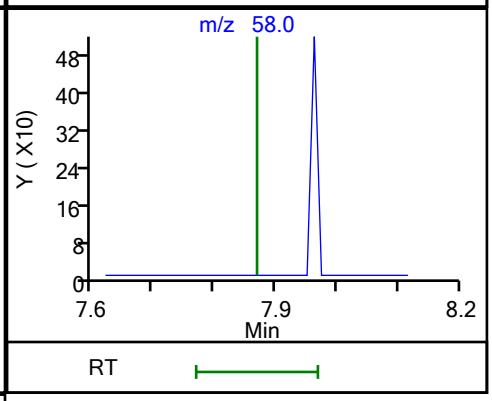
80 2-Hexanone, CAS: 591-78-6

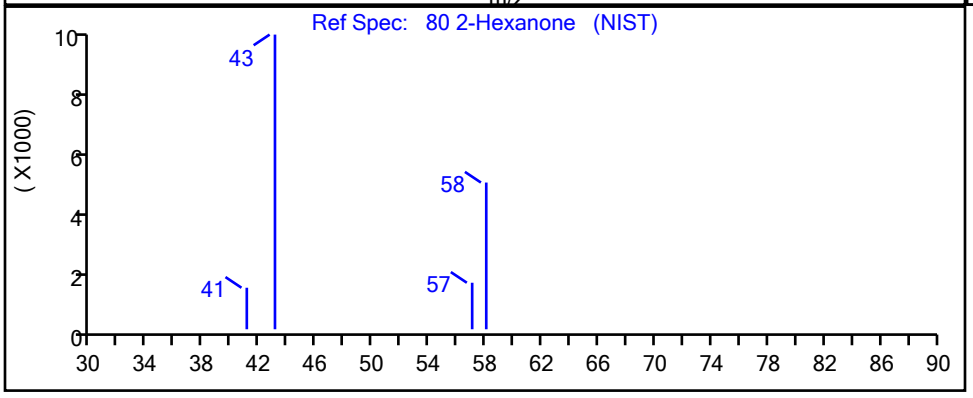
Processing Results











RT	Mass	Response	Amount
7.96	43.00	6019	0.634446
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 07:55:23

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-060221 Lab Sample ID: 240-150601-7

Matrix: Water Lab File ID: UX995990.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:34

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:08

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.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-060221 Lab Sample ID: 240-150601-7

Matrix: Water Lab File ID: UX995990.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:34

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:08

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.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-060221 Lab Sample ID: 240-150601-7

Matrix: Water Lab File ID: UX995990.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:34

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:08

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.: 490350 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)	109		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	113		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-060221 Lab Sample ID: 240-150601-7

Matrix: Water Lab File ID: UX995990.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:34

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:08

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.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-060221 Lab Sample ID: 240-150601-7

Matrix: Water Lab File ID: UX995990.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:34

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:08

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.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC	2.32	1.0	U	1%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995990.D
Lims ID: 240-150601-B-7
Client ID: MSA-SW38C-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 14:08:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-015
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:55:43 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:56:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.879	5.879	0.000	99	767138	20.0	
* 2 Chlorobenzene-d5	117	8.577	8.577	0.000	85	622794	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.813	10.813	0.000	95	324702	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.287	5.287	0.000	93	418577	21.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.583	5.583	0.000	99	440309	20.2	
$ 6 Toluene-d8 (Surr)	98	7.251	7.251	0.000	92	1698073	22.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.677	9.677	0.000	89	623173	21.2	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	7
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.347	3.360	-0.013	95	2406	0.8573	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	7
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51	2.317	2.413	-0.096	1	1235	0.0322	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

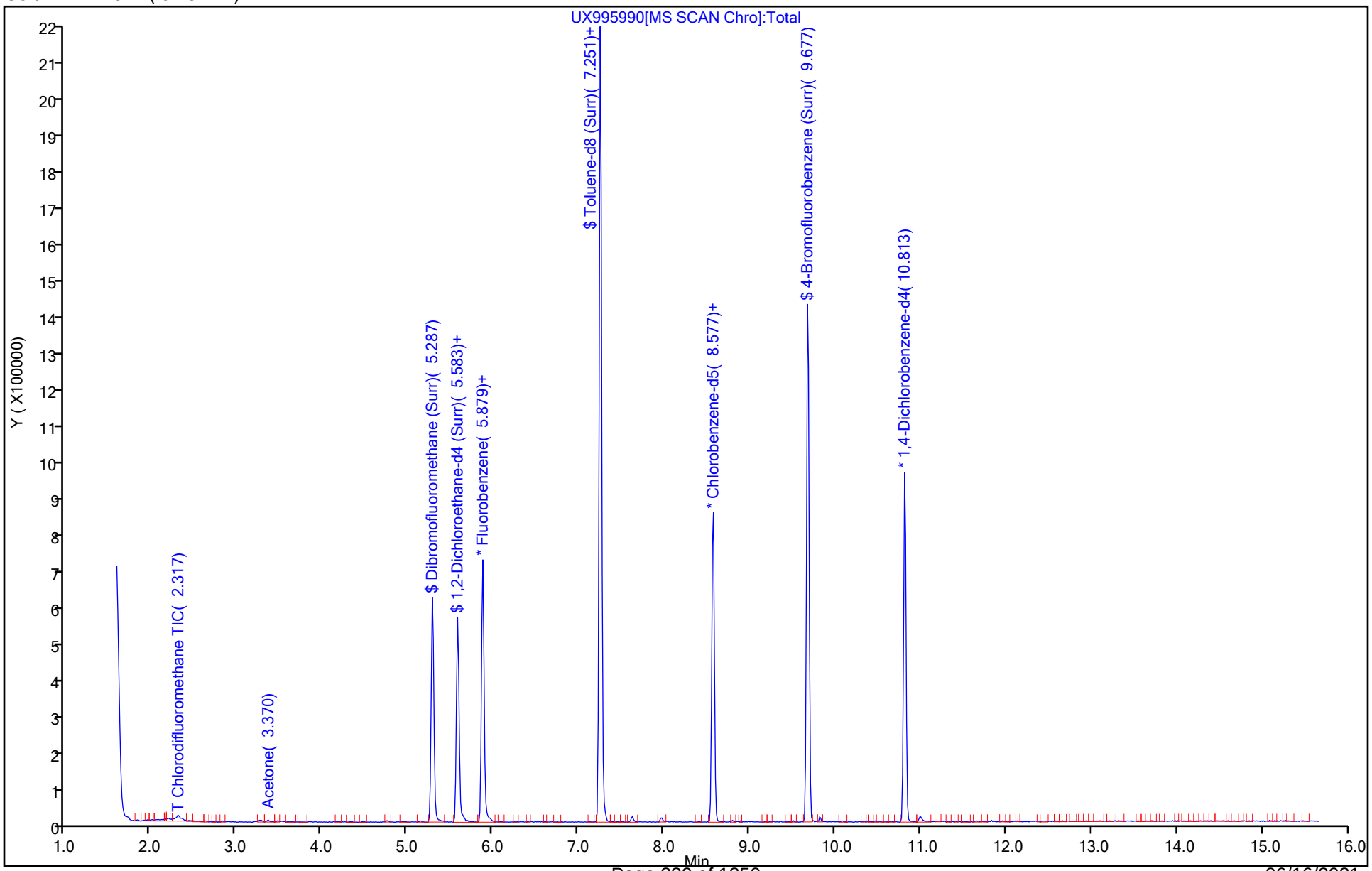
Report Date: 14-Jun-2021 07:56:09 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995990.D

Injection Date:	13-Jun-2021 14:08:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-7	Lab Sample ID:	240-150601-7	Worklist Smp#:	15
Client ID:	MSA-SW38C-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995990.D				
Lims ID:	240-150601-B-7				
Client ID:	MSA-SW38C-060221				
Sample Type:	Client				
Inject. Date:	13-Jun-2021 14:08:30	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110195-015				
Operator ID:	001765	Instrument ID:	A3UX9		
Method:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	14-Jun-2021 07:55:43	Calib Date:	10-Jun-2021 16:45:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1641				

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:56:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.8	109.17
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.2	100.94
$ 6 Toluene-d8 (Surr)	20.0	22.7	113.42
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.2	106.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-060221 Lab Sample ID: 240-150601-8

Matrix: Water Lab File ID: UX995991.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:37

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-060221 Lab Sample ID: 240-150601-8

Matrix: Water Lab File ID: UX995991.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:37

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-060221 Lab Sample ID: 240-150601-8

Matrix: Water Lab File ID: UX995991.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:37

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	115		47-134
1868-53-7	Dibromofluoromethane (Surr)	113		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
2037-26-5	Toluene-d8 (Surr)	121		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-060221 Lab Sample ID: 240-150601-8

Matrix: Water Lab File ID: UX995991.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:37

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-060221 Lab Sample ID: 240-150601-8

Matrix: Water Lab File ID: UX995991.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:37

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC	2.32	1.0	U	1%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995991.D
Lims ID: 240-150601-B-8
Client ID: MSA-SW38D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 14:31:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-016
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:56:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:56:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	727512	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.003	85	581366	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.813	-0.002	96	291814	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	93	412679	22.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	99	442902	21.4	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	93	1693156	24.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	88	629640	23.0	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.356	3.360	-0.004	86	5265	3.48	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	7
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	7
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51	2.315	2.413	-0.098	1	796	0.0219	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

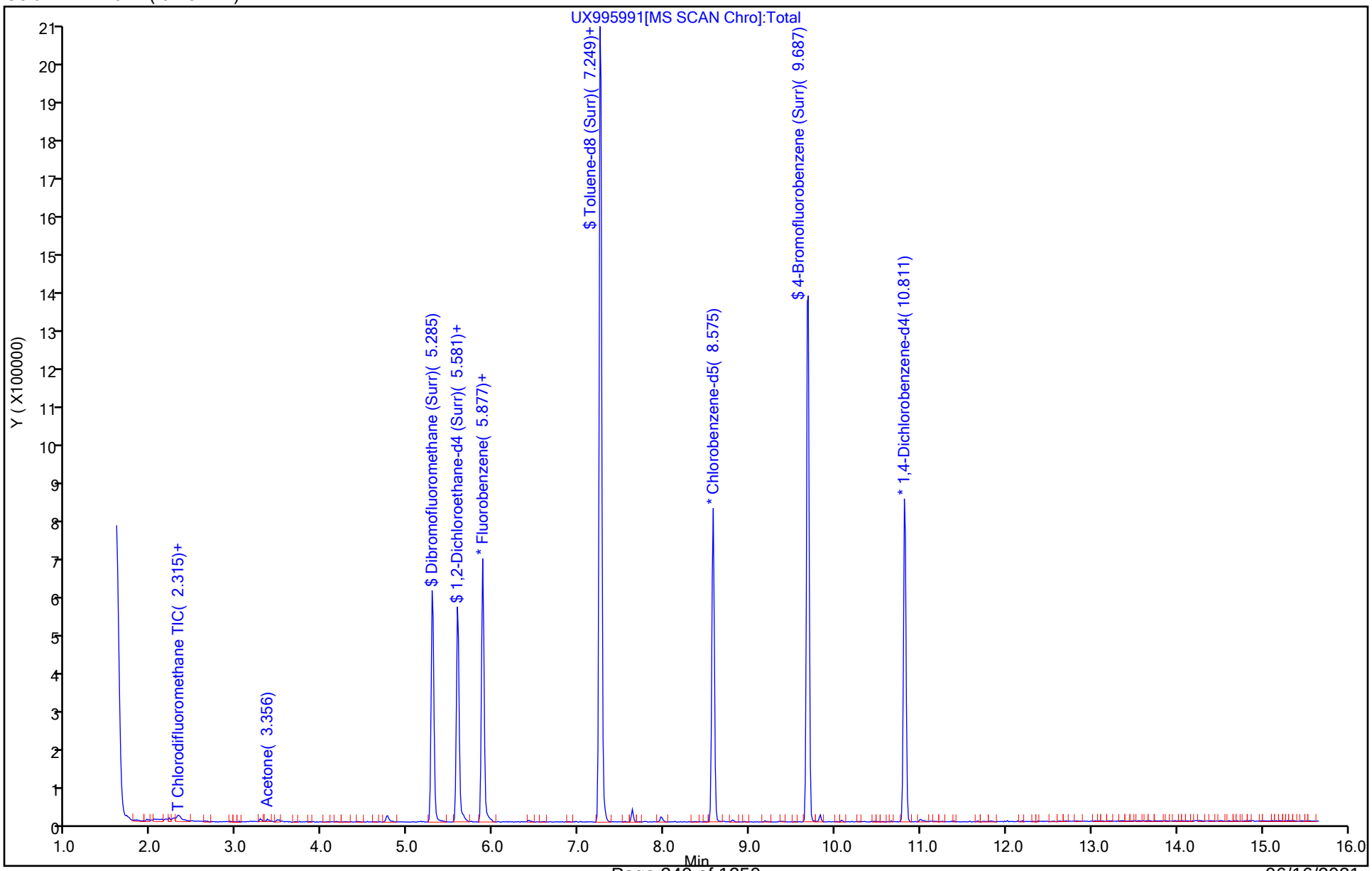
Report Date: 14-Jun-2021 07:56:36 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995991.D

Injection Date:	13-Jun-2021 14:31:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-8	Lab Sample ID:	240-150601-8	Worklist Smp#:	16
Client ID:	MSA-SW38D-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995991.D
Lims ID: 240-150601-B-8
Client ID: MSA-SW38D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 14:31:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-016
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:56:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:56:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.7	113.50
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.4	107.07
$ 6 Toluene-d8 (Surr)	20.0	24.2	121.15
$ 7 4-Bromofluorobenzene (Surr)	20.0	23.0	114.93

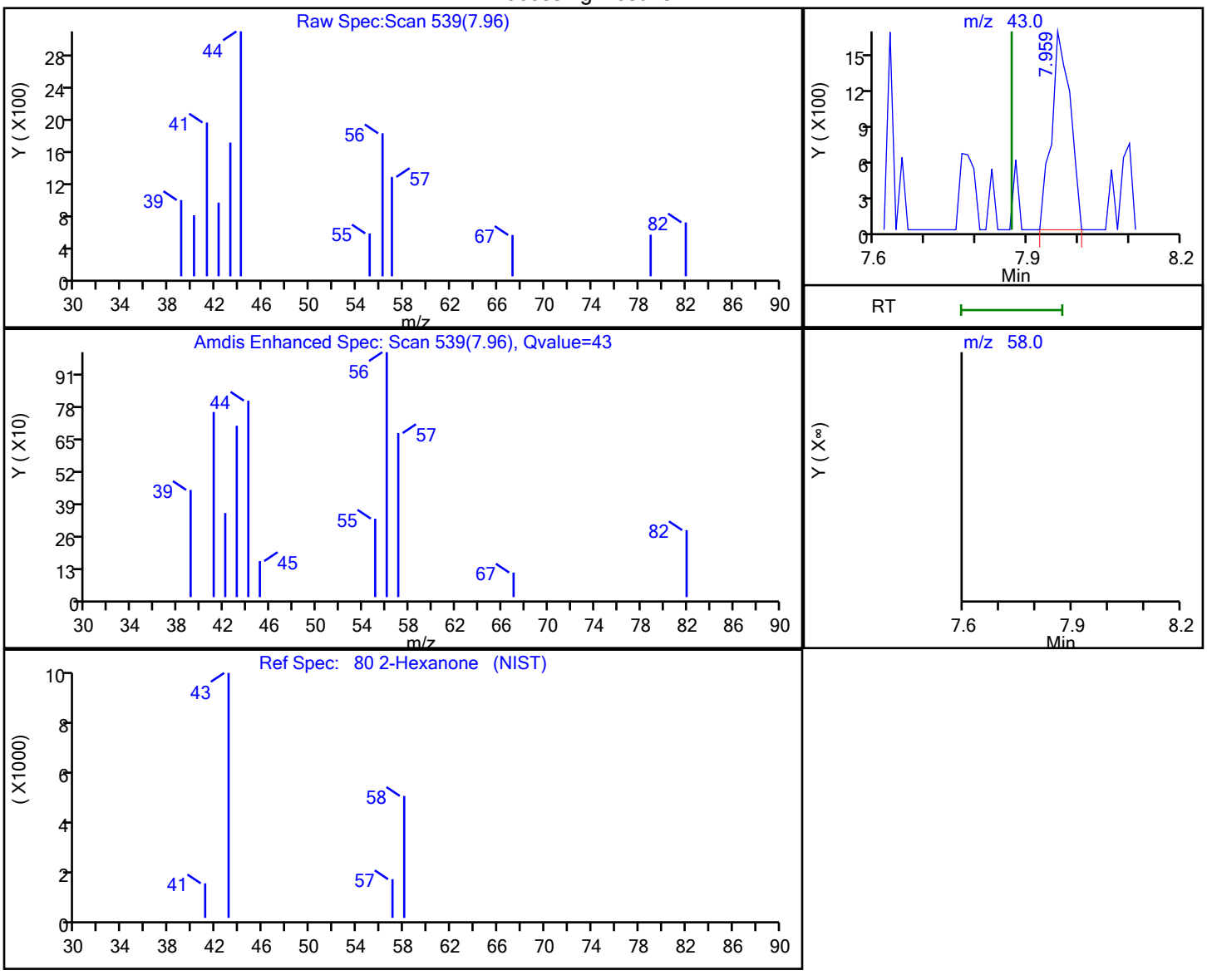
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995991.D				
Injection Date:	13-Jun-2021 14:31:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-8	Lab Sample ID:	240-150601-8		
Client ID:	MSA-SW38D-060221				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.96	43.00	4245	0.492514
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 07:56:21

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-060221 Lab Sample ID: 240-150601-9

Matrix: Water Lab File ID: UX995992.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:47

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-060221 Lab Sample ID: 240-150601-9

Matrix: Water Lab File ID: UX995992.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:47

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-060221 Lab Sample ID: 240-150601-9

Matrix: Water Lab File ID: UX995992.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:47

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	110		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
2037-26-5	Toluene-d8 (Surr)	116		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-060221 Lab Sample ID: 240-150601-9

Matrix: Water Lab File ID: UX995992.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:47

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-060221 Lab Sample ID: 240-150601-9

Matrix: Water Lab File ID: UX995992.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:47

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 14:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX995992.D
Lims ID: 240-150601-B-9
Client ID: MSA-SW40A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 14:53:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-017
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:56:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:56:57

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.879	5.879	0.000	99	725976	20.0	
*	2 Chlorobenzene-d5	117	8.577	8.577	-0.001	85	593331	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.813	10.813	0.000	95	311692	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.287	5.287	0.000	93	397814	21.9	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.583	5.583	0.000	100	427532	20.7	
$	6 Toluene-d8 (Surr)	98	7.251	7.251	0.000	92	1652764	23.2	
$	7 4-Bromofluorobenzene (Surr)	95	9.677	9.677	0.000	88	612887	21.9	
	9 Dichlorodifluoromethane	85		1.763				ND	
	10 Chloromethane	50		1.952				ND	7
	11 Vinyl chloride	62		2.082				ND	
	13 Bromomethane	94		2.437				ND	7
	15 Chloroethane	64		2.544				ND	
	17 Trichlorofluoromethane	101		2.816				ND	
	24 1,1-Dichloroethene	61		3.325				ND	
	22 112TCTFE	101		3.325				ND	
	23 Acetone	58	3.370	3.360	0.010	74	2966	1.46	
	26 Carbon disulfide	76		3.537				ND	7
	30 Methylene Chloride	49		3.762				ND	
	31 2-Methyl-2-propanol	59		3.845				ND	
	33 Methyl tert-butyl ether	73		4.011				ND	
	34 trans-1,2-Dichloroethene	61		4.023				ND	
	36 1,1-Dichloroethane	63		4.389				ND	
	37 Vinyl acetate	43		4.413				ND	7
	38 Isopropyl ether	87		4.435				ND	
	40 Tert-butyl ethyl ether	59		4.755				ND	
	41 2-Butanone (MEK)	72		4.886				ND	
	43 cis-1,2-Dichloroethene	96		4.886				ND	
	42 2,2-Dichloropropane	77		4.898				ND	
	47 Chlorobromomethane	49		5.088				ND	
	49 Chloroform	83		5.147				ND	
	50 1,1,1-Trichloroethane	97		5.336				ND	
	52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

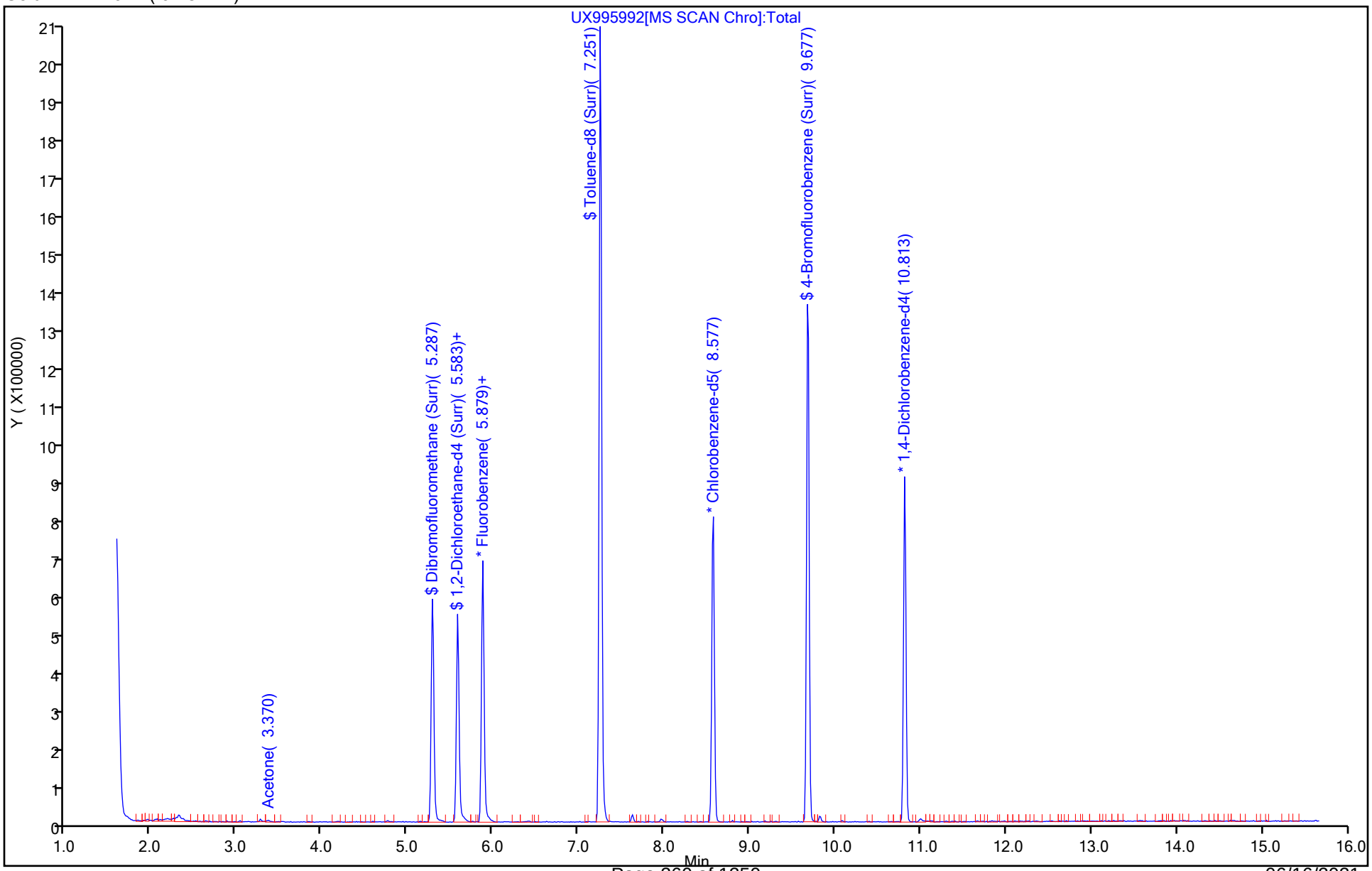
Report Date: 14-Jun-2021 07:56:57 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995992.D

Injection Date:	13-Jun-2021 14:53:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-9	Lab Sample ID:	240-150601-9	Worklist Smp#:	17
Client ID:	MSA-SW40A-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995992.D				
Lims ID:	240-150601-B-9				
Client ID:	MSA-SW40A-060221				
Sample Type:	Client				
Inject. Date:	13-Jun-2021 14:53:30	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110195-017				
Operator ID:	001765	Instrument ID:	A3UX9		
Method:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	14-Jun-2021 07:56:35	Calib Date:	10-Jun-2021 16:45:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1641				

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:56:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.9	109.64
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.57
$ 6 Toluene-d8 (Surr)	20.0	23.2	115.88
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.9	109.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-060221 Lab Sample ID: 240-150601-10

Matrix: Water Lab File ID: UX995993.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:50

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-060221 Lab Sample ID: 240-150601-10

Matrix: Water Lab File ID: UX995993.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:50

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-060221 Lab Sample ID: 240-150601-10

Matrix: Water Lab File ID: UX995993.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:50

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	114		47-134
1868-53-7	Dibromofluoromethane (Surr)	119		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		75-130
2037-26-5	Toluene-d8 (Surr)	122		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-060221 Lab Sample ID: 240-150601-10

Matrix: Water Lab File ID: UX995993.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:50

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-060221 Lab Sample ID: 240-150601-10

Matrix: Water Lab File ID: UX995993.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:50

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC	2.33	1.0	U	1%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995993.D
Lims ID: 240-150601-B-10
Client ID: MSA-SW40B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 15:16:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-018
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:56:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:57:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	707259	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	85	581928	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.813	-0.001	95	298548	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.286	5.287	-0.001	93	421012	23.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	99	439006	21.8	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	92	1702694	24.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.677	-0.001	89	626359	22.8	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	7
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.357	3.360	-0.003	97	3338	1.87	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78	5.652	5.644	0.008	90	7833	0.1064	
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91	7.309	7.312	-0.003	94	9948	0.1208	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	7
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51	2.327	2.413	-0.086	1	457	0.0129	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

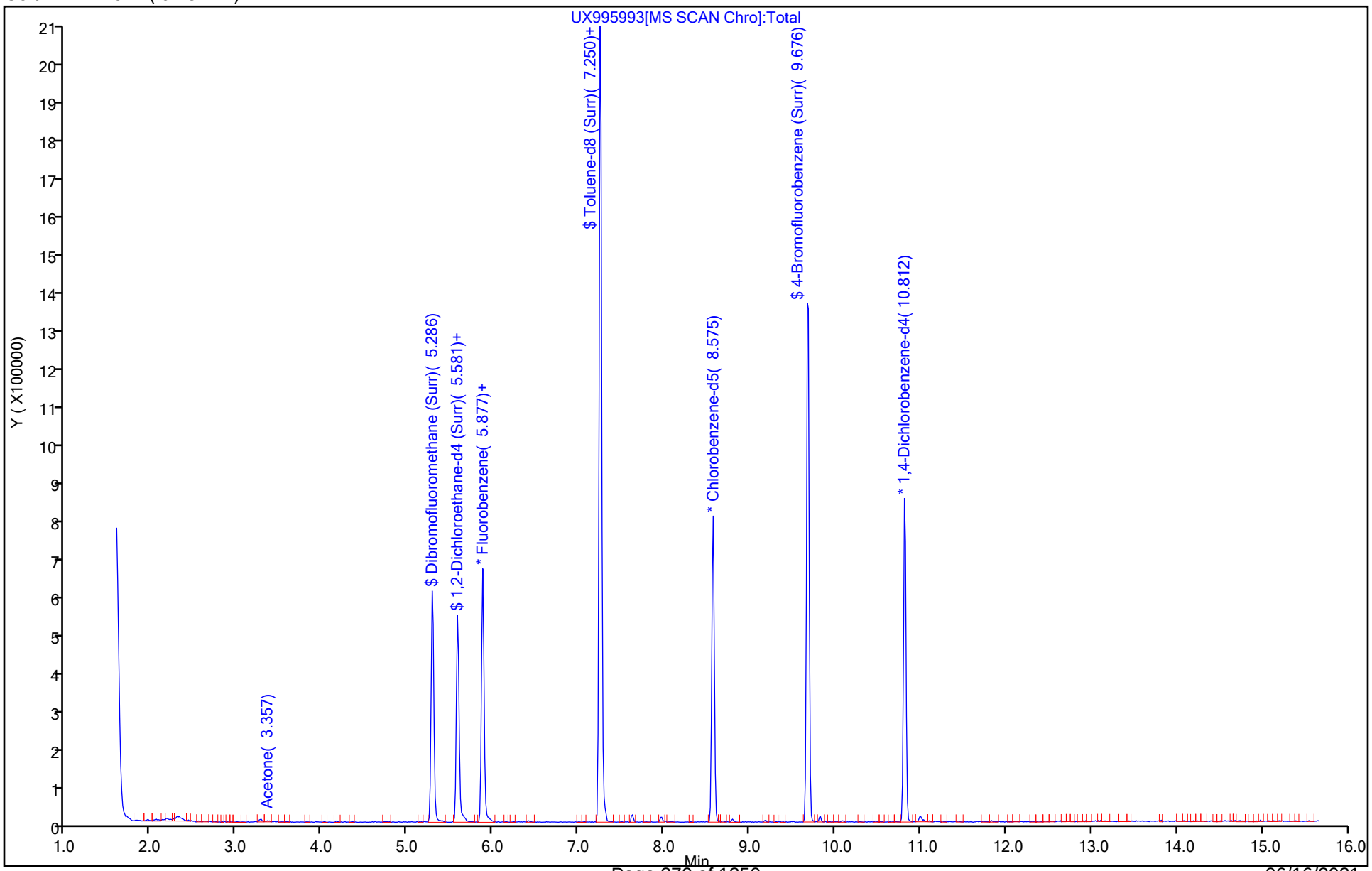
Report Date: 14-Jun-2021 07:57:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995993.D

Injection Date:	13-Jun-2021 15:16:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-10	Lab Sample ID:	240-150601-10	Worklist Smp#:	18
Client ID:	MSA-SW40B-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995993.D
Lims ID: 240-150601-B-10
Client ID: MSA-SW40B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 15:16:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-018
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:56:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:57:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.8	119.10
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.8	109.16
$ 6 Toluene-d8 (Surr)	20.0	24.3	121.71
$ 7 4-Bromofluorobenzene (Surr)	20.0	22.8	114.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-060221 Lab Sample ID: 240-150601-11

Matrix: Water Lab File ID: UX995994.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-060221 Lab Sample ID: 240-150601-11

Matrix: Water Lab File ID: UX995994.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-060221 Lab Sample ID: 240-150601-11

Matrix: Water Lab File ID: UX995994.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	118		47-134
1868-53-7	Dibromofluoromethane (Surr)	121		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		75-130
2037-26-5	Toluene-d8 (Surr)	126	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-060221 Lab Sample ID: 240-150601-11

Matrix: Water Lab File ID: UX995994.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-060221 Lab Sample ID: 240-150601-11

Matrix: Water Lab File ID: UX995994.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 15:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC	2.32	1.0	U	15%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995994.D
Lims ID: 240-150601-B-11
Client ID: MSA-SW40C-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 15:39:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-019
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:58:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:58:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	699174	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	85	567459	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.813	-0.001	95	292521	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.286	5.287	-0.001	93	423130	24.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.582	5.583	-0.001	100	440817	22.2	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	92	1714613	25.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.677	-0.001	88	633307	23.7	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.357	3.360	-0.003	66	3245	1.82	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51	2.316	2.413	-0.097	15	843	0.0241	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

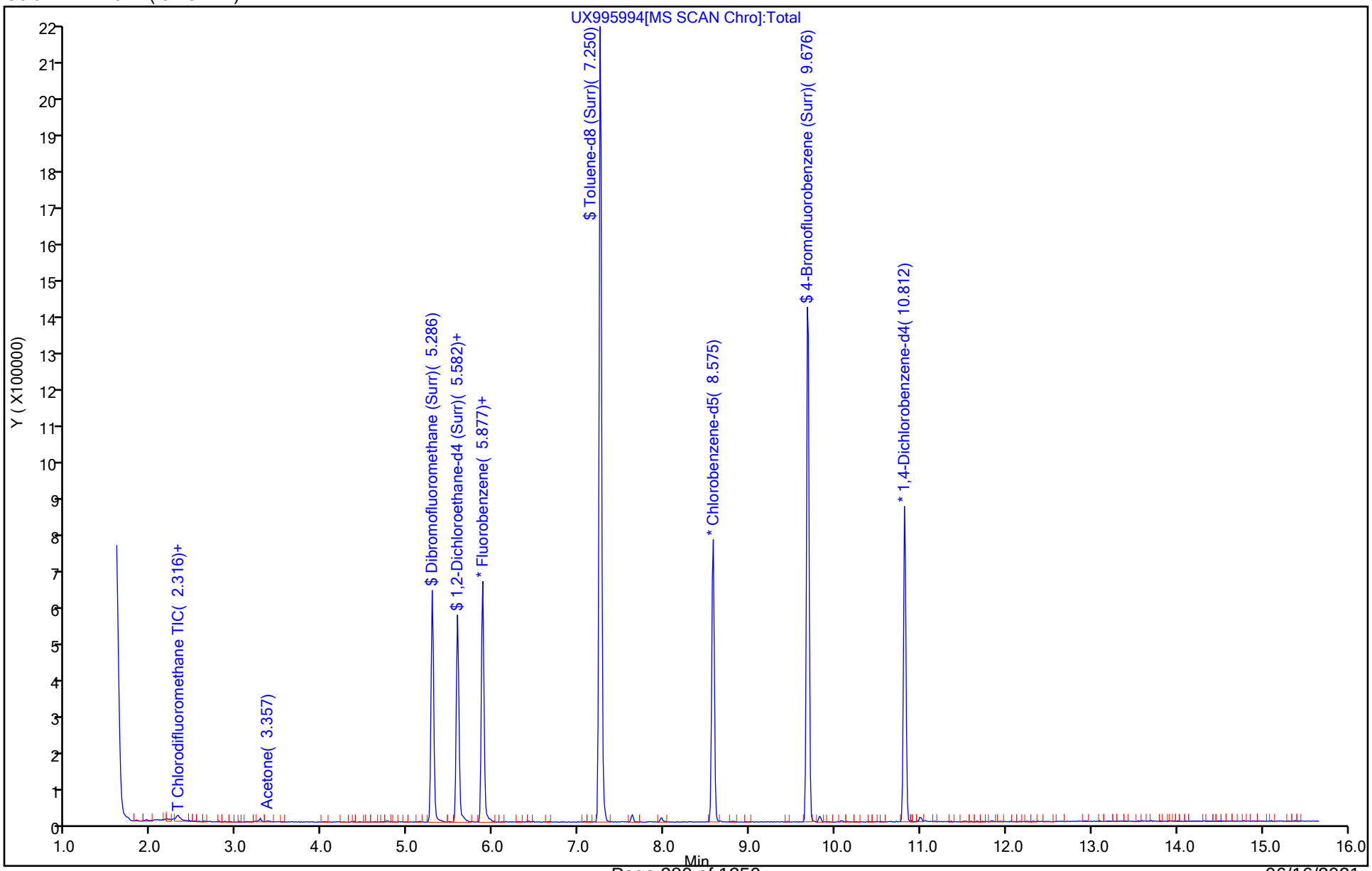
Report Date: 14-Jun-2021 07:58:35 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995994.D

Injection Date:	13-Jun-2021 15:39:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-11	Lab Sample ID:	240-150601-11	Worklist Smp#:	19
Client ID:	MSA-SW40C-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995994.D
Lims ID: 240-150601-B-11
Client ID: MSA-SW40C-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 15:39:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-019
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:58:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:58:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	24.2	121.09
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	22.2	110.88
$ 6 Toluene-d8 (Surr)	20.0	25.1	125.69
$ 7 4-Bromofluorobenzene (Surr)	20.0	23.7	118.43

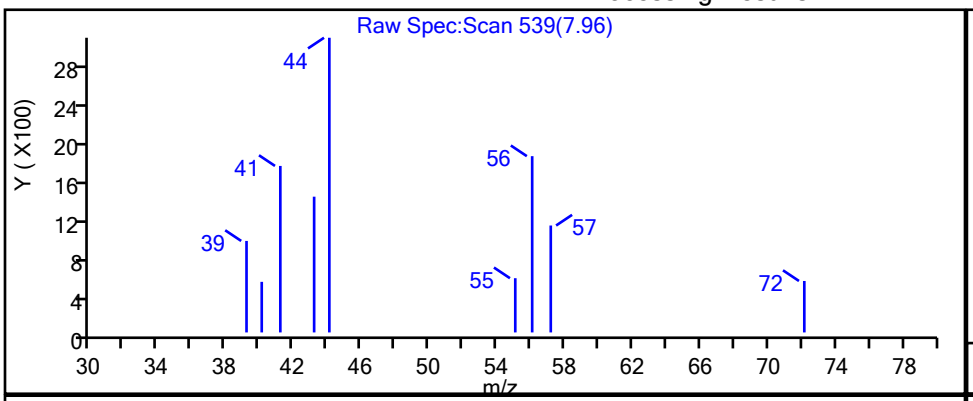
User Disabled Compound Report

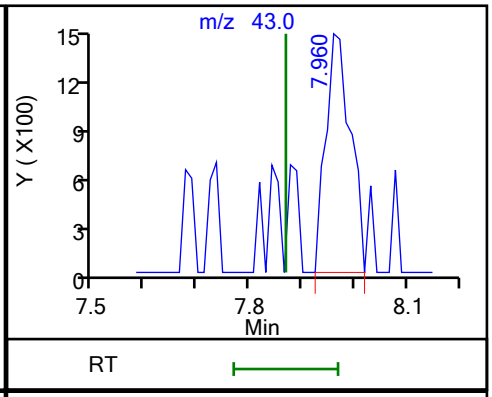
Eurofins TestAmerica, Canton

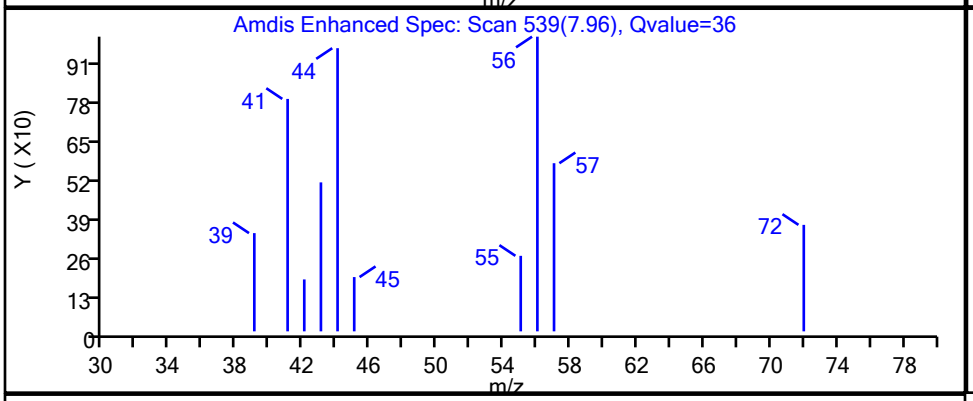
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995994.D				
Injection Date:	13-Jun-2021 15:39:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-11	Lab Sample ID:	240-150601-11		
Client ID:	MSA-SW40C-060221				
Operator ID:	001765	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

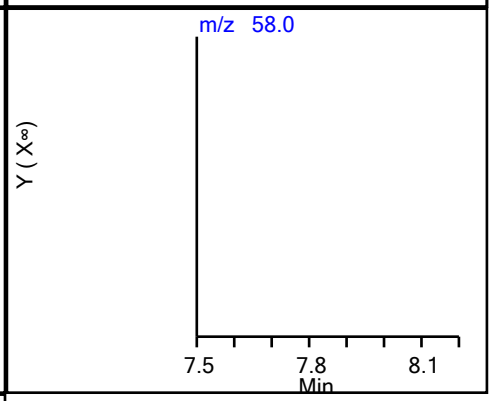
80 2-Hexanone, CAS: 591-78-6

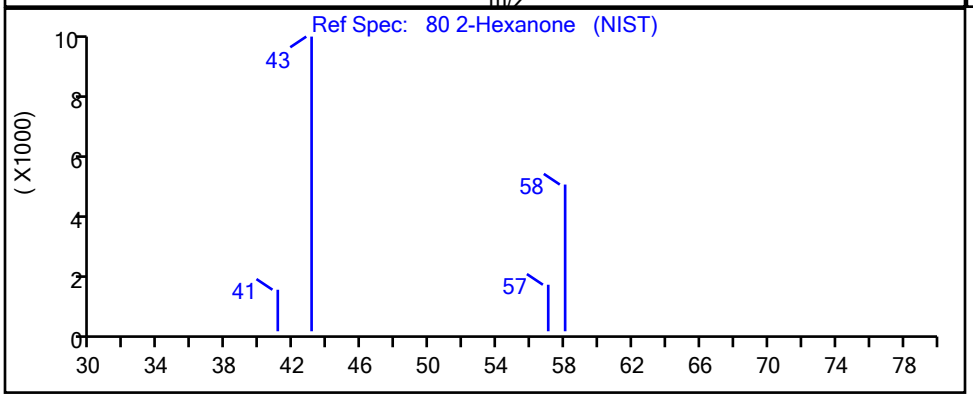
Processing Results











RT	Mass	Response	Amount
7.96	43.00	4679	0.556171
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 07:58:22

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-060221 Lab Sample ID: 240-150601-12

Matrix: Water Lab File ID: UX995995.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:01

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-060221 Lab Sample ID: 240-150601-12

Matrix: Water Lab File ID: UX995995.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:01

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-060221 Lab Sample ID: 240-150601-12

Matrix: Water Lab File ID: UX995995.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:01

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	115		47-134
1868-53-7	Dibromofluoromethane (Surr)	117		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		75-130
2037-26-5	Toluene-d8 (Surr)	123	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-060221 Lab Sample ID: 240-150601-12

Matrix: Water Lab File ID: UX995995.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:01

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-060221 Lab Sample ID: 240-150601-12

Matrix: Water Lab File ID: UX995995.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:01

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX995995.D
Lims ID: 240-150601-B-12
Client ID: MSA-SW40D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 16:01:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-020
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:58:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:58:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	681917	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	85	552704	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.813	-0.002	96	279987	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.286	5.287	-0.001	93	398097	23.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	99	417505	21.5	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	92	1634000	24.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	88	600567	23.1	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58		3.360				ND	7
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	7
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

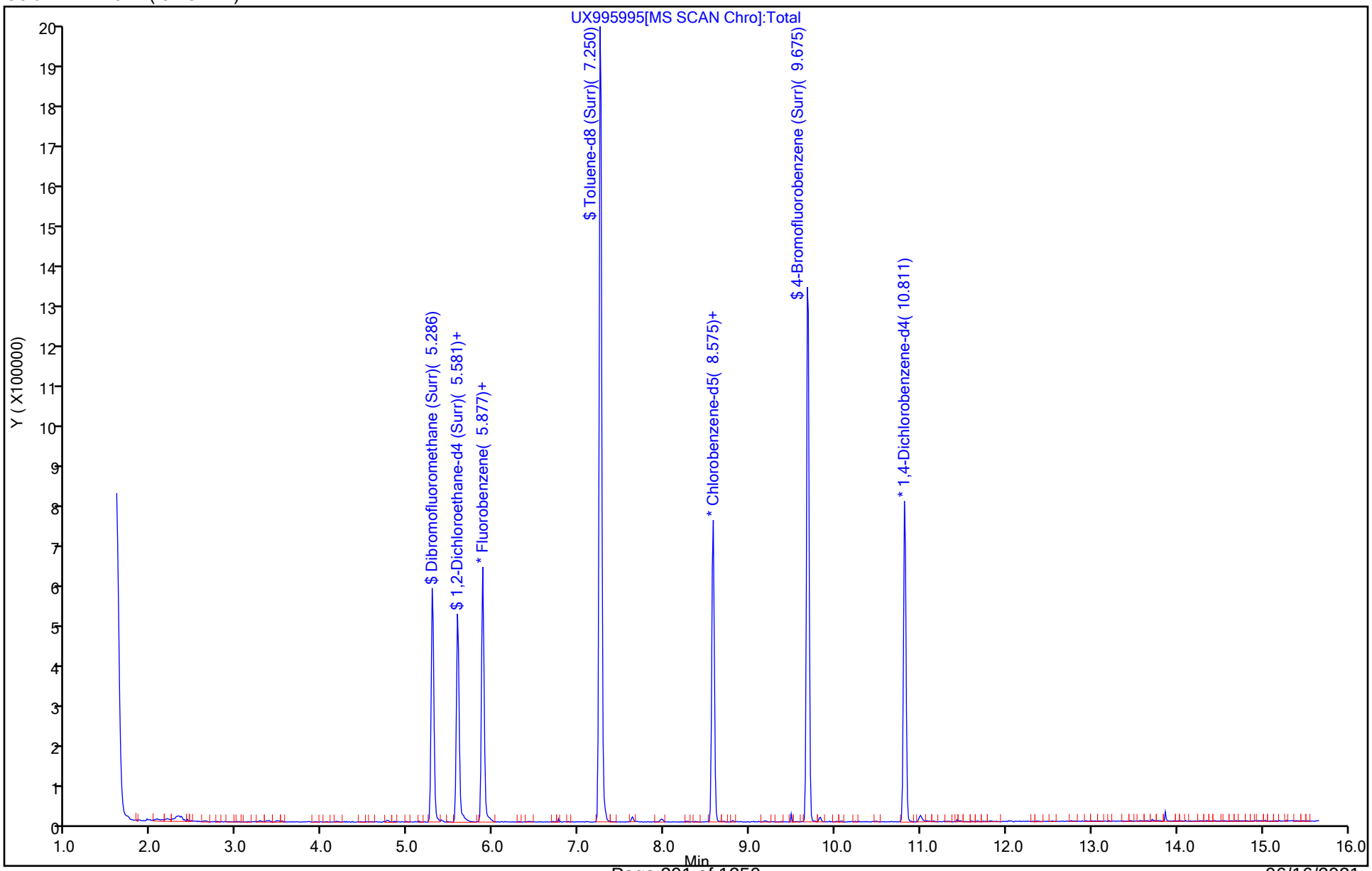
Report Date: 14-Jun-2021 07:58:57 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995995.D

Injection Date:	13-Jun-2021 16:01:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-12	Lab Sample ID:	240-150601-12	Worklist Smp#:	20
Client ID:	MSA-SW40D-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995995.D
Lims ID: 240-150601-B-12
Client ID: MSA-SW40D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 16:01:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-020
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:58:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:58:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.4	116.81
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.5	107.68
$ 6 Toluene-d8 (Surr)	20.0	24.6	122.98
$ 7 4-Bromofluorobenzene (Surr)	20.0	23.1	115.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-060221 Lab Sample ID: 240-150601-13

Matrix: Water Lab File ID: UX995996.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-060221 Lab Sample ID: 240-150601-13

Matrix: Water Lab File ID: UX995996.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-060221 Lab Sample ID: 240-150601-13

Matrix: Water Lab File ID: UX995996.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	126		47-134
1868-53-7	Dibromofluoromethane (Surr)	129		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		75-130
2037-26-5	Toluene-d8 (Surr)	134	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-060221 Lab Sample ID: 240-150601-13

Matrix: Water Lab File ID: UX995996.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-060221 Lab Sample ID: 240-150601-13

Matrix: Water Lab File ID: UX995996.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX995996.D
Lims ID: 240-150601-B-13
Client ID: MSA-SW41A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 16:24:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-021
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:00:19 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:00:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	629056	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	85	514525	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.813	-0.001	96	269348	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.286	5.287	-0.001	94	404754	25.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.582	5.583	-0.001	100	427284	23.9	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	92	1652336	26.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.677	-0.001	88	609521	25.1	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	7
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.345	3.360	-0.015	65	1351	0.2253	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

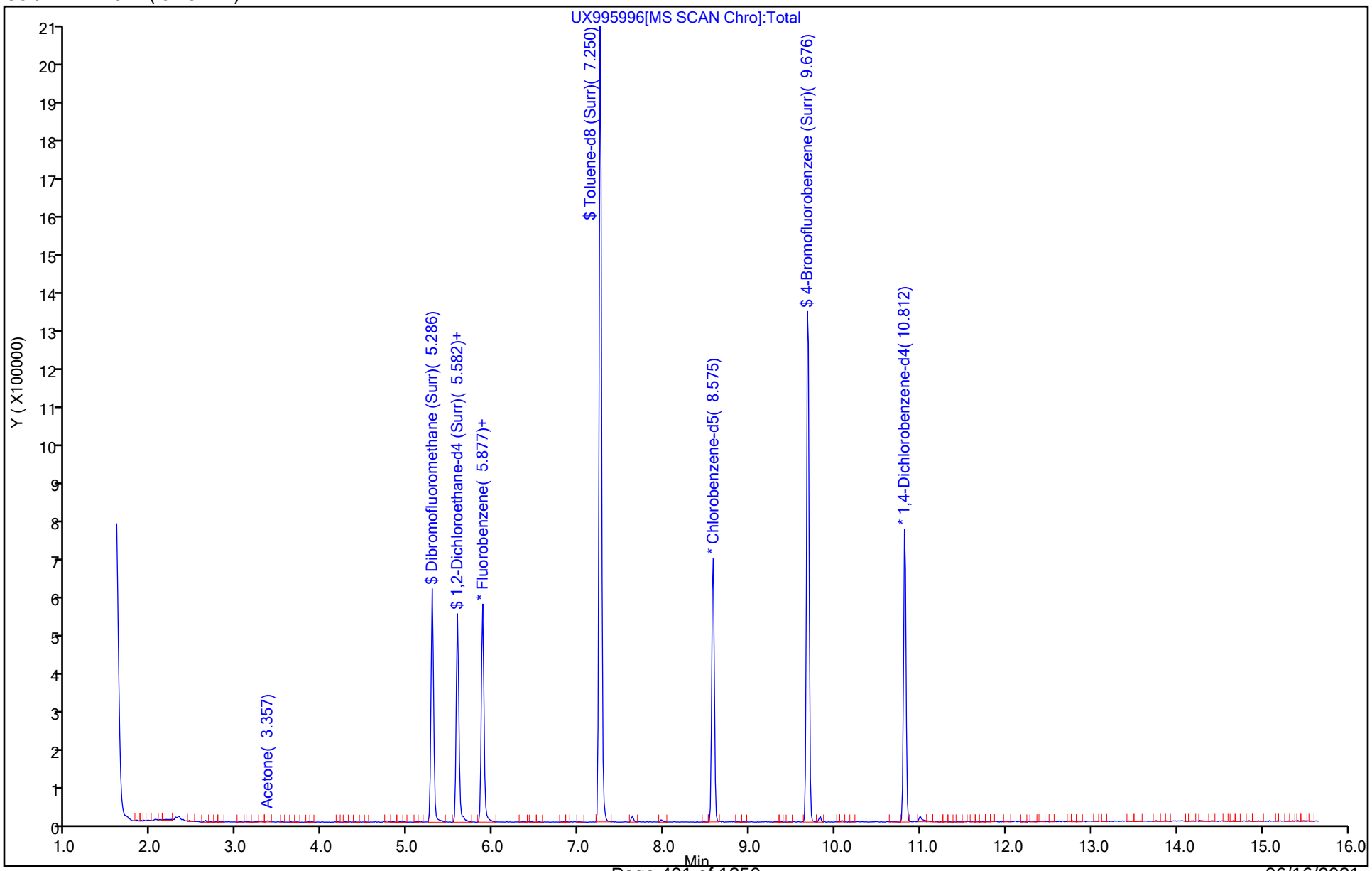
Report Date: 14-Jun-2021 08:00:19 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995996.D

Injection Date:	13-Jun-2021 16:24:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-13	Lab Sample ID:	240-150601-13	Worklist Smp#:	21
Client ID:	MSA-SW41A-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995996.D
Lims ID: 240-150601-B-13
Client ID: MSA-SW41A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 16:24:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-021
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:00:19 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:00:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	25.7	128.74
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	23.9	119.46
$ 6 Toluene-d8 (Surr)	20.0	26.7	133.59
$ 7 4-Bromofluorobenzene (Surr)	20.0	25.1	125.71

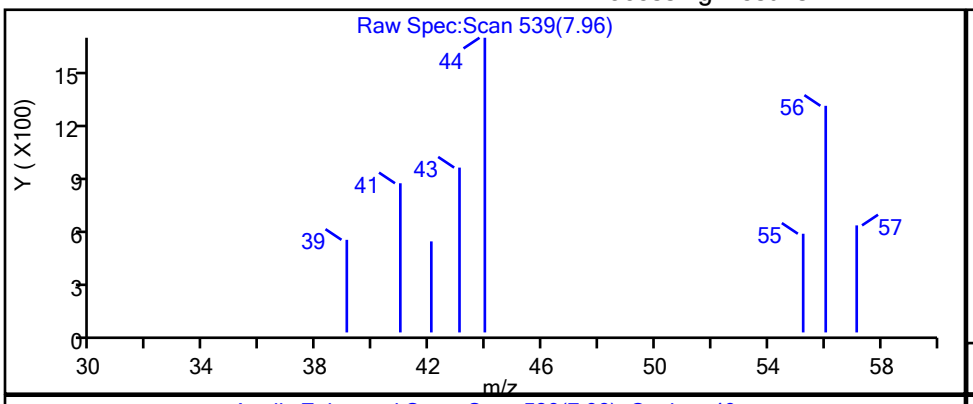
User Disabled Compound Report

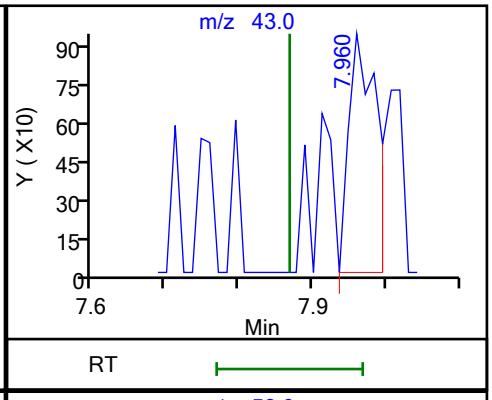
Eurofins TestAmerica, Canton

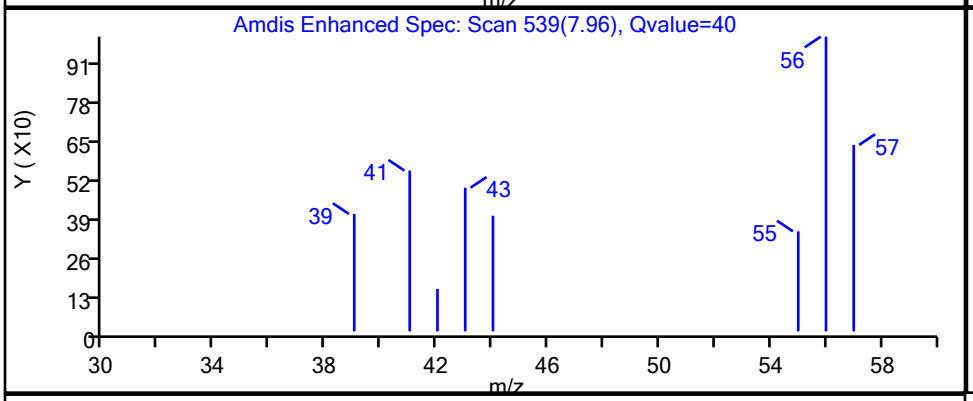
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995996.D				
Injection Date:	13-Jun-2021 16:24:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-13	Lab Sample ID:	240-150601-13		
Client ID:	MSA-SW41A-060221				
Operator ID:	001765	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

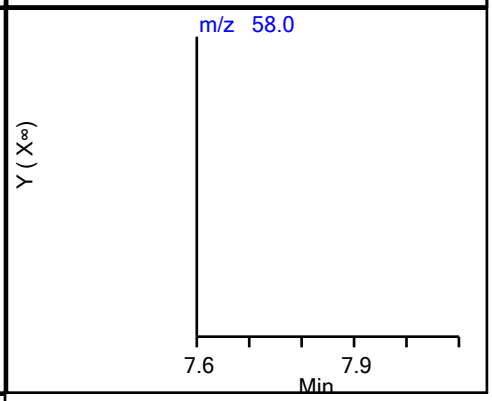
80 2-Hexanone, CAS: 591-78-6

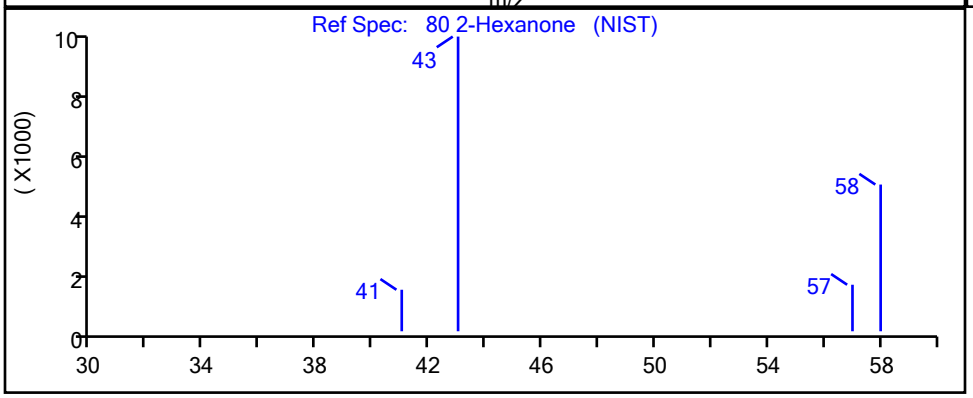
Processing Results











RT	Mass	Response	Amount
7.96	43.00	2494	0.326949
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 07:59:11

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-060221 Lab Sample ID: 240-150601-14

Matrix: Water Lab File ID: UX995997.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:03

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-060221 Lab Sample ID: 240-150601-14

Matrix: Water Lab File ID: UX995997.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:03

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.11	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	40	U	40	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	0.21	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-060221 Lab Sample ID: 240-150601-14

Matrix: Water Lab File ID: UX995997.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:03

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	131		47-134
1868-53-7	Dibromofluoromethane (Surr)	133	S1+	78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	140	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-060221 Lab Sample ID: 240-150601-14

Matrix: Water Lab File ID: UX995997.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:03

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-060221 Lab Sample ID: 240-150601-14

Matrix: Water Lab File ID: UX995997.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:03

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 16:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC	2.31	1.0	U	25%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995997.D
Lims ID: 240-150601-B-14
Client ID: MSA-SW41B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 16:46:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-022
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:00:19 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:00:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.876	5.879	-0.003	99	607448	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.577	-0.003	84	488648	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.822	10.813	0.009	95	253309	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.284	5.287	-0.003	93	403757	26.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.580	5.583	-0.003	100	424358	24.6	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	92	1649343	28.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.674	9.677	-0.003	89	602257	26.2	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.356	3.360	-0.004	94	2659	1.65	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78	5.651	5.644	0.007	91	7798	0.1233	
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91	7.308	7.312	-0.004	98	14334	0.2073	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106	8.799	8.803	-0.004	95	3809	0.1132	
89 o-Xylene	106		9.182				ND	7
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	7
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106				0		0.1132	
T 157 Chlorodifluoromethane TIC	51	2.314	2.413	-0.099	25	958	0.0315	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

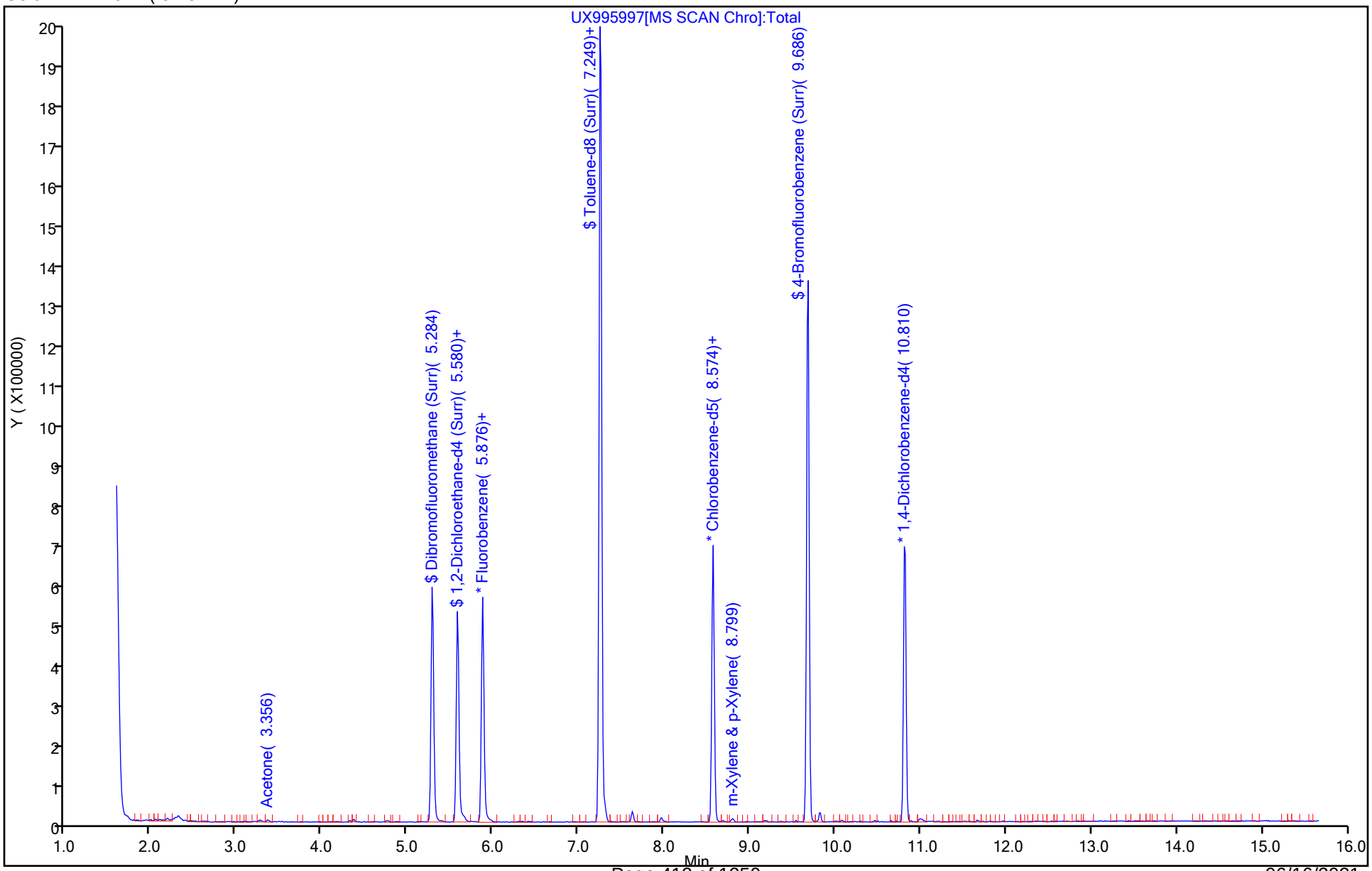
Report Date: 14-Jun-2021 08:00:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995997.D

Injection Date:	13-Jun-2021 16:46:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-14	Lab Sample ID:	240-150601-14	Worklist Smp#:	22
Client ID:	MSA-SW41B-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995997.D				
Lims ID:	240-150601-B-14				
Client ID:	MSA-SW41B-060221				
Sample Type:	Client				
Inject. Date:	13-Jun-2021 16:46:30	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110195-022				
Operator ID:	001765	Instrument ID:	A3UX9		
Method:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	14-Jun-2021 08:00:19	Calib Date:	10-Jun-2021 16:45:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1641				

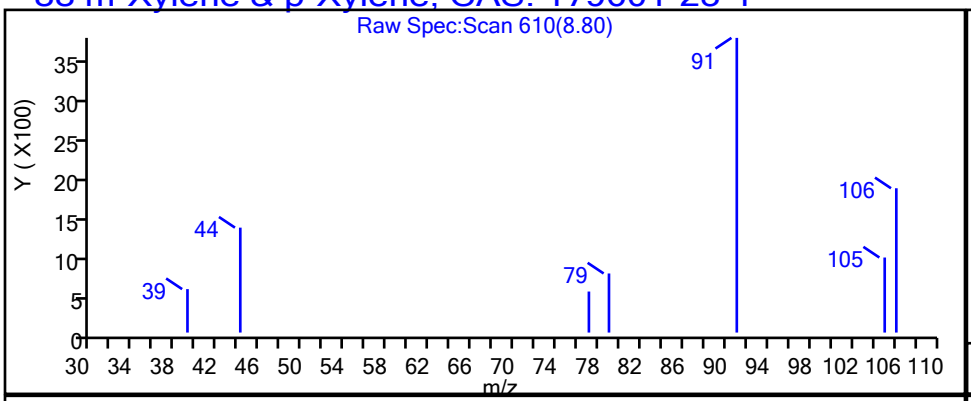
First Level Reviewer: bosworthh Date: 14-Jun-2021 08:00:46

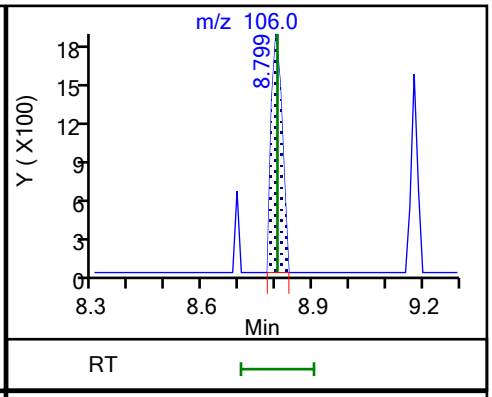
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	26.6	132.99
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.6	122.86
$ 6 Toluene-d8 (Surr)	20.0	28.1	140.41
$ 7 4-Bromofluorobenzene (Surr)	20.0	26.2	130.79

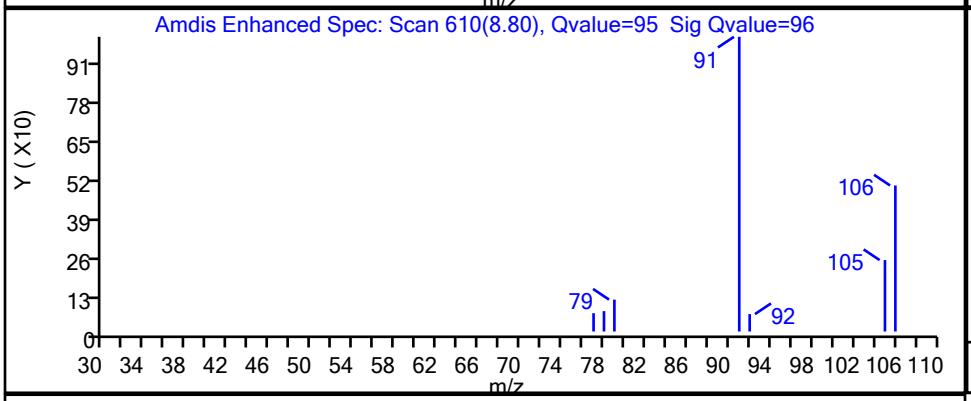
Eurofins TestAmerica, Canton

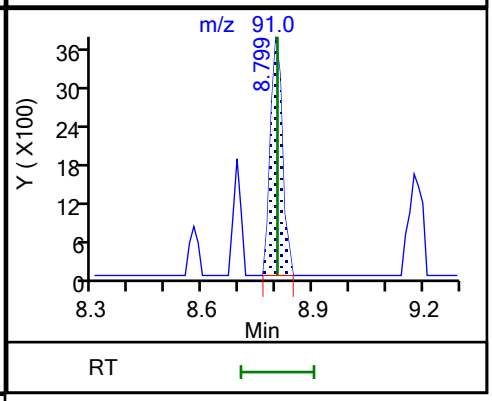
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995997.D				
Injection Date:	13-Jun-2021 16:46:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-14	Lab Sample ID:	240-150601-14		
Client ID:	MSA-SW41B-060221				
Operator ID:	001765	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

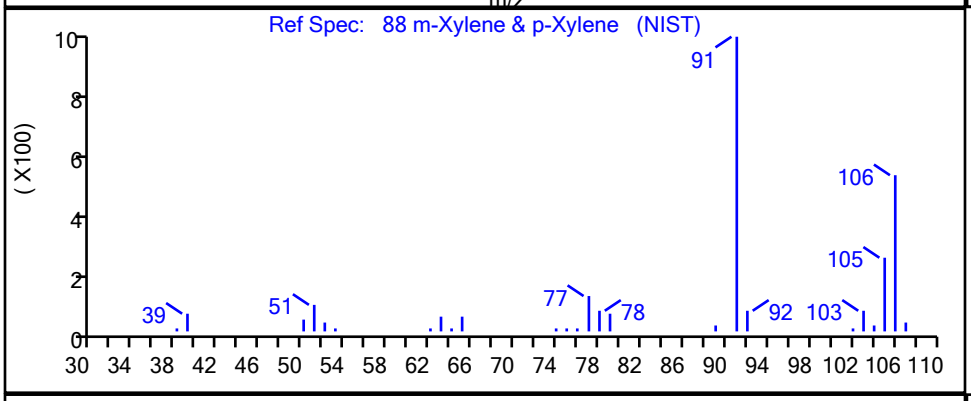
88 m-Xylene & p-Xylene, CAS: 179601-23-1

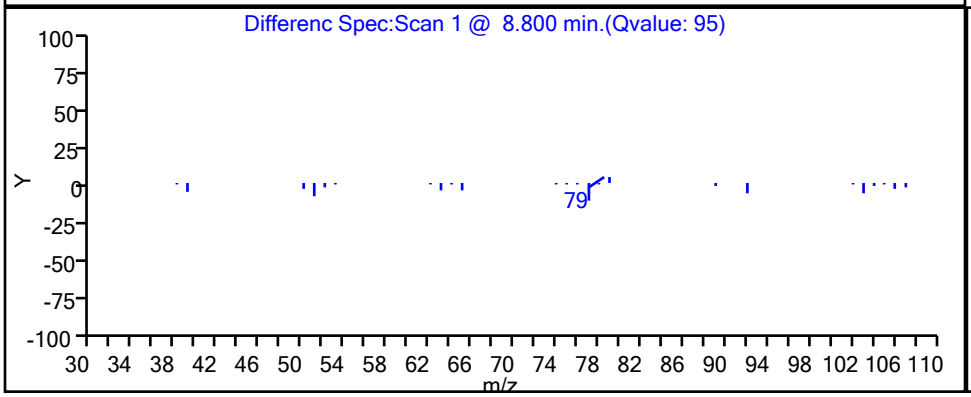


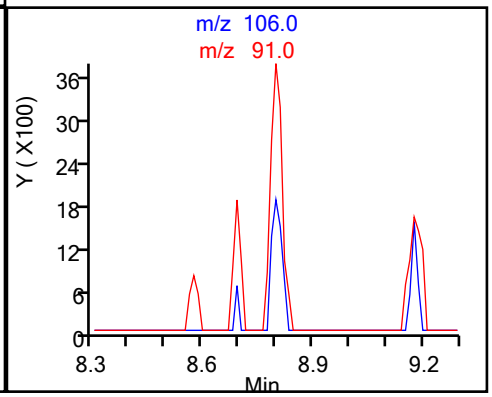








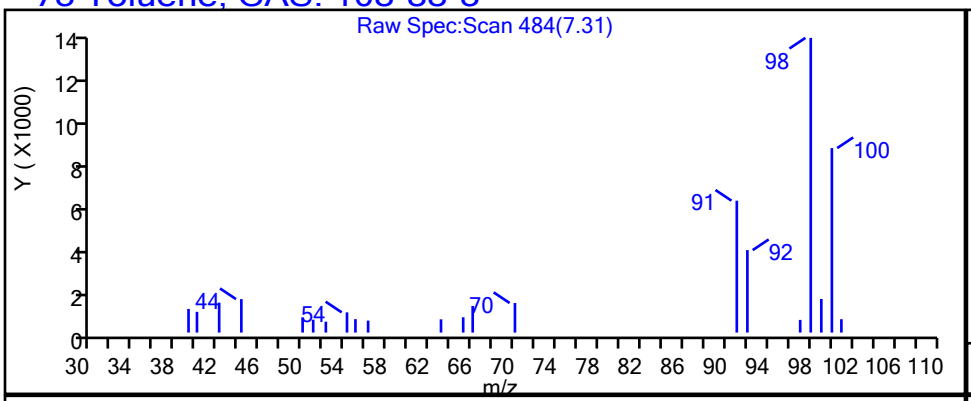


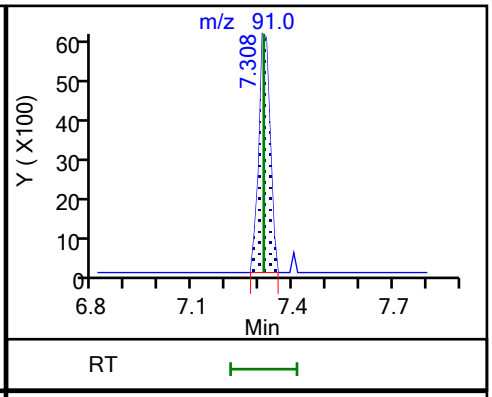


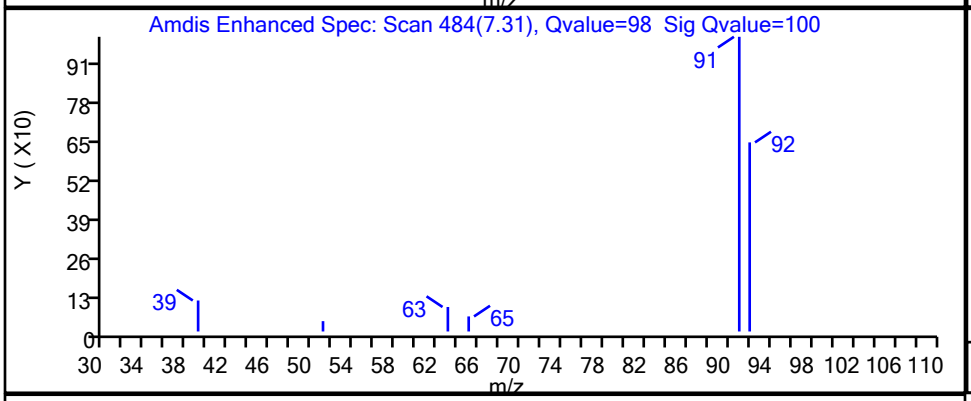
Eurofins TestAmerica, Canton

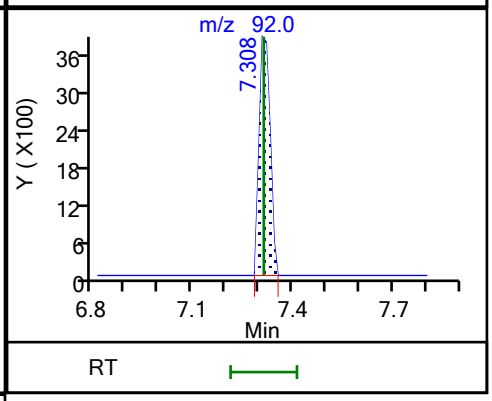
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995997.D				
Injection Date:	13-Jun-2021 16:46:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-14	Lab Sample ID:	240-150601-14		
Client ID:	MSA-SW41B-060221				
Operator ID:	001765	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

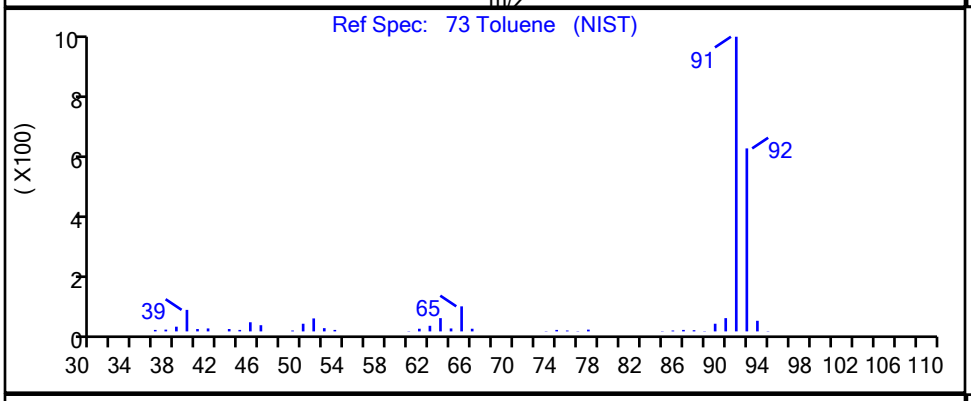
73 Toluene, CAS: 108-88-3

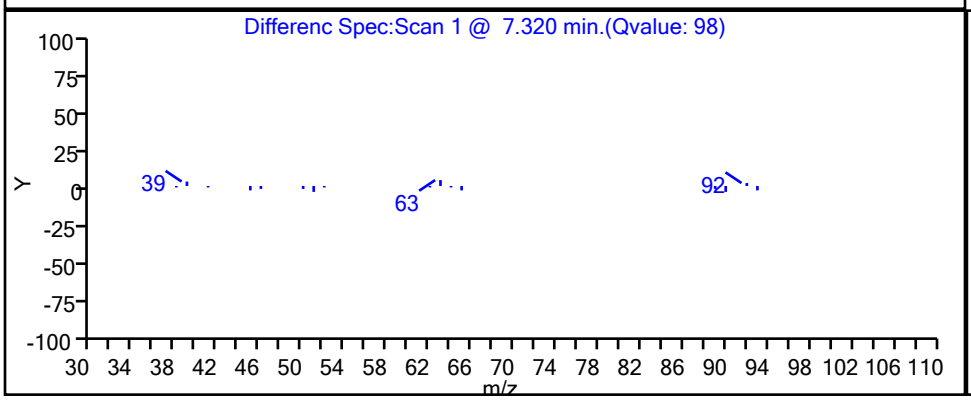


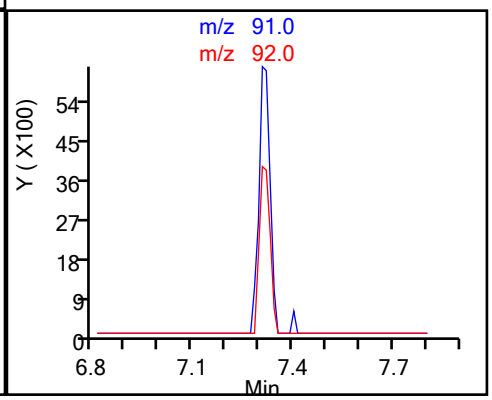












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-060221 Lab Sample ID: 240-150601-15

Matrix: Water Lab File ID: UX995998.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:09

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-060221 Lab Sample ID: 240-150601-15

Matrix: Water Lab File ID: UX995998.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:09

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-060221 Lab Sample ID: 240-150601-15

Matrix: Water Lab File ID: UX995998.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:09

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	125		47-134
1868-53-7	Dibromofluoromethane (Surr)	129		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		75-130
2037-26-5	Toluene-d8 (Surr)	134	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-060221 Lab Sample ID: 240-150601-15

Matrix: Water Lab File ID: UX995998.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:09

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-060221 Lab Sample ID: 240-150601-15

Matrix: Water Lab File ID: UX995998.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:09

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC	2.32	1.0	U	1%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995998.D
Lims ID: 240-150601-B-15
Client ID: MSA-SW41C-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 17:09:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-023
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:01:06 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:01:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	590543	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.577	-0.003	85	482389	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.823	10.813	0.010	95	246952	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	93	380398	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	100	399372	23.8	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	92	1556110	26.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	89	568652	25.0	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	7
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58		3.360				ND	7
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51	2.315	2.413	-0.098	1	395	0.0134	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

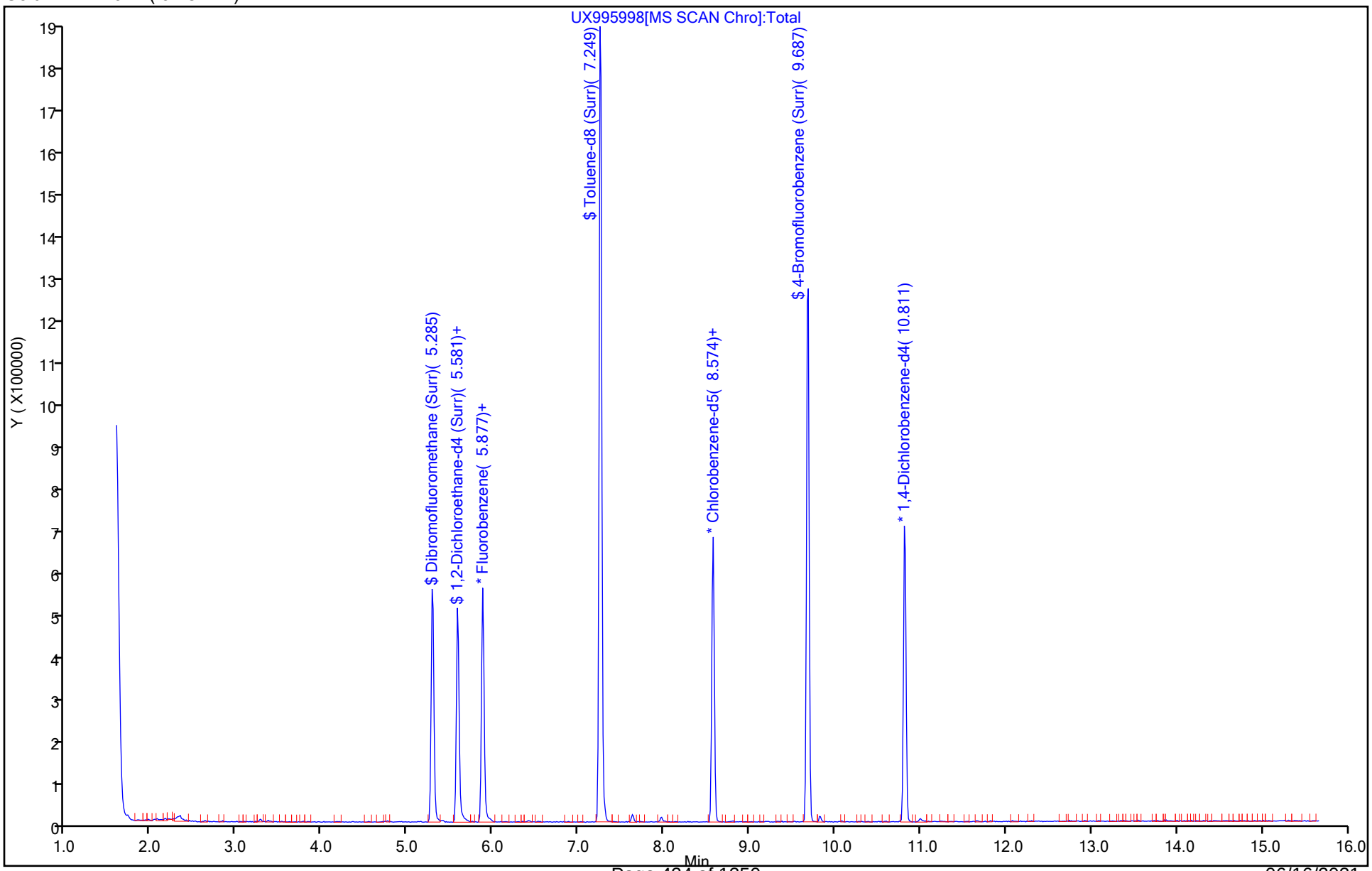
Report Date: 14-Jun-2021 08:01:06 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995998.D

Injection Date:	13-Jun-2021 17:09:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-15	Lab Sample ID:	240-150601-15	Worklist Smp#:	23
Client ID:	MSA-SW41C-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995998.D
Lims ID: 240-150601-B-15
Client ID: MSA-SW41C-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 17:09:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-023
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:01:06 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:01:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	25.8	128.88
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	23.8	118.94
$ 6 Toluene-d8 (Surr)	20.0	26.8	134.19
$ 7 4-Bromofluorobenzene (Surr)	20.0	25.0	125.09

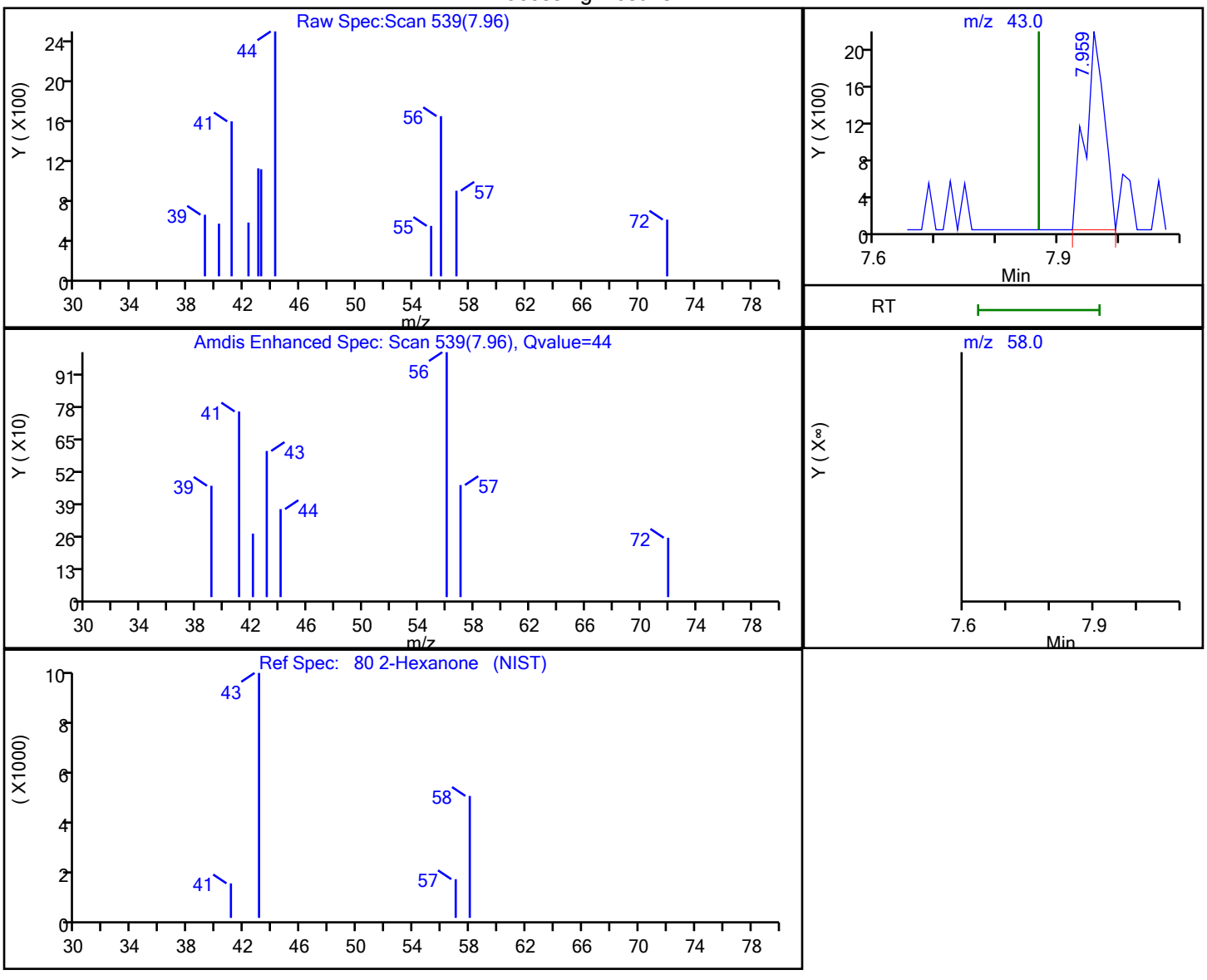
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995998.D				
Injection Date:	13-Jun-2021 17:09:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-15	Lab Sample ID:	240-150601-15		
Client ID:	MSA-SW41C-060221				
Operator ID:	001765	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.96	43.00	4599	0.643067
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 08:00:56

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-060221 Lab Sample ID: 240-150601-16

Matrix: Water Lab File ID: UX995999.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:14

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-060221 Lab Sample ID: 240-150601-16

Matrix: Water Lab File ID: UX995999.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:14

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-060221 Lab Sample ID: 240-150601-16

Matrix: Water Lab File ID: UX995999.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:14

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	123		47-134
1868-53-7	Dibromofluoromethane (Surr)	127		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		75-130
2037-26-5	Toluene-d8 (Surr)	130	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-060221 Lab Sample ID: 240-150601-16

Matrix: Water Lab File ID: UX995999.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:14

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-060221 Lab Sample ID: 240-150601-16

Matrix: Water Lab File ID: UX995999.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:14

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX995999.D
Lims ID: 240-150601-B-16
Client ID: MSA-SW41D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 17:31:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-024
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:01:06 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:01:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	629283	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	85	518698	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.813	-0.002	96	270695	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	93	400398	25.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	100	420991	23.5	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	92	1616015	25.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	89	600416	24.6	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58		3.360				ND	7
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78	5.652	5.644	0.008	87	6217	0.0949	
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	7
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

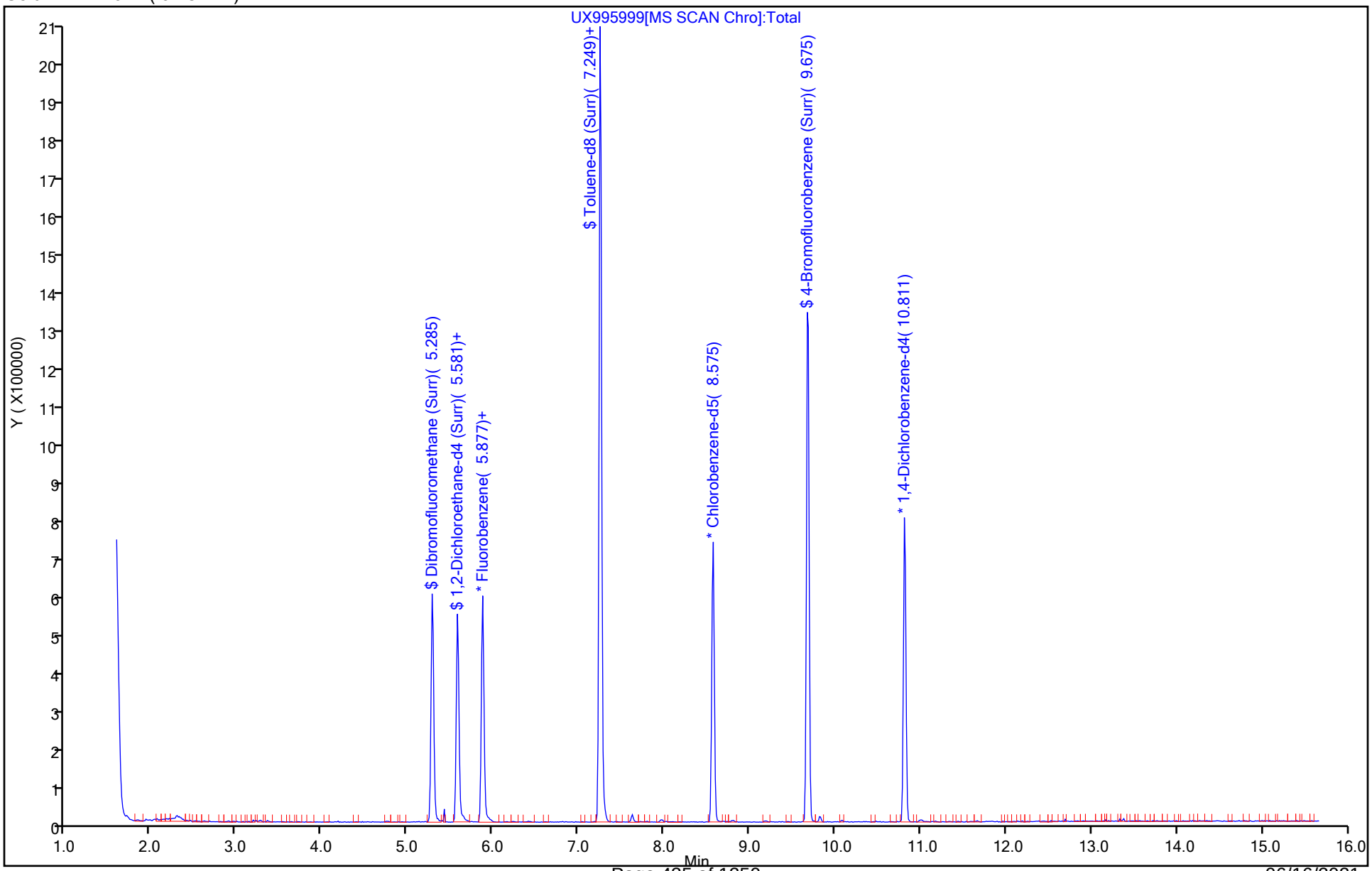
Report Date: 14-Jun-2021 08:01:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995999.D

Injection Date:	13-Jun-2021 17:31:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-16	Lab Sample ID:	240-150601-16	Worklist Smp#:	24
Client ID:	MSA-SW41D-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995999.D
Lims ID: 240-150601-B-16
Client ID: MSA-SW41D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 17:31:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-024
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:01:06 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:01:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	25.5	127.31
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	23.5	117.66
$ 6 Toluene-d8 (Surr)	20.0	25.9	129.60
$ 7 4-Bromofluorobenzene (Surr)	20.0	24.6	122.84

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-060221 Lab Sample ID: 240-150601-17

Matrix: Water Lab File ID: UX996000.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:07

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-060221 Lab Sample ID: 240-150601-17

Matrix: Water Lab File ID: UX996000.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:07

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.11	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	40	U	40	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	0.15	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-060221 Lab Sample ID: 240-150601-17

Matrix: Water Lab File ID: UX996000.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:07

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	128		47-134
1868-53-7	Dibromofluoromethane (Surr)	129		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		75-130
2037-26-5	Toluene-d8 (Surr)	137	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-060221 Lab Sample ID: 240-150601-17

Matrix: Water Lab File ID: UX996000.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:07

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-060221 Lab Sample ID: 240-150601-17

Matrix: Water Lab File ID: UX996000.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:07

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX996000.D
Lims ID: 240-150601-B-17
Client ID: MSA-SW42A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 17:54:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-025
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:01:45 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:01:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.879	5.879	0.000	99	619440	20.0	
* 2 Chlorobenzene-d5	117	8.577	8.577	0.000	85	499797	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.813	10.813	0.000	95	264988	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.287	5.287	0.000	93	398133	25.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.583	5.583	0.000	99	423596	24.1	
$ 6 Toluene-d8 (Surr)	98	7.251	7.251	0.000	92	1640790	27.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.677	9.677	0.000	88	604971	25.7	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	7
13 Bromomethane	94		2.437				ND	7
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.358	3.360	-0.002	86	2073	0.99	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78	5.654	5.644	0.010	90	6594	0.1022	
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91	7.310	7.312	-0.002	99	10847	0.1533	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106	8.801	8.803	-0.002	77	3723	0.1082	
89 o-Xylene	106		9.182				ND	7
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106				0		0.1082	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

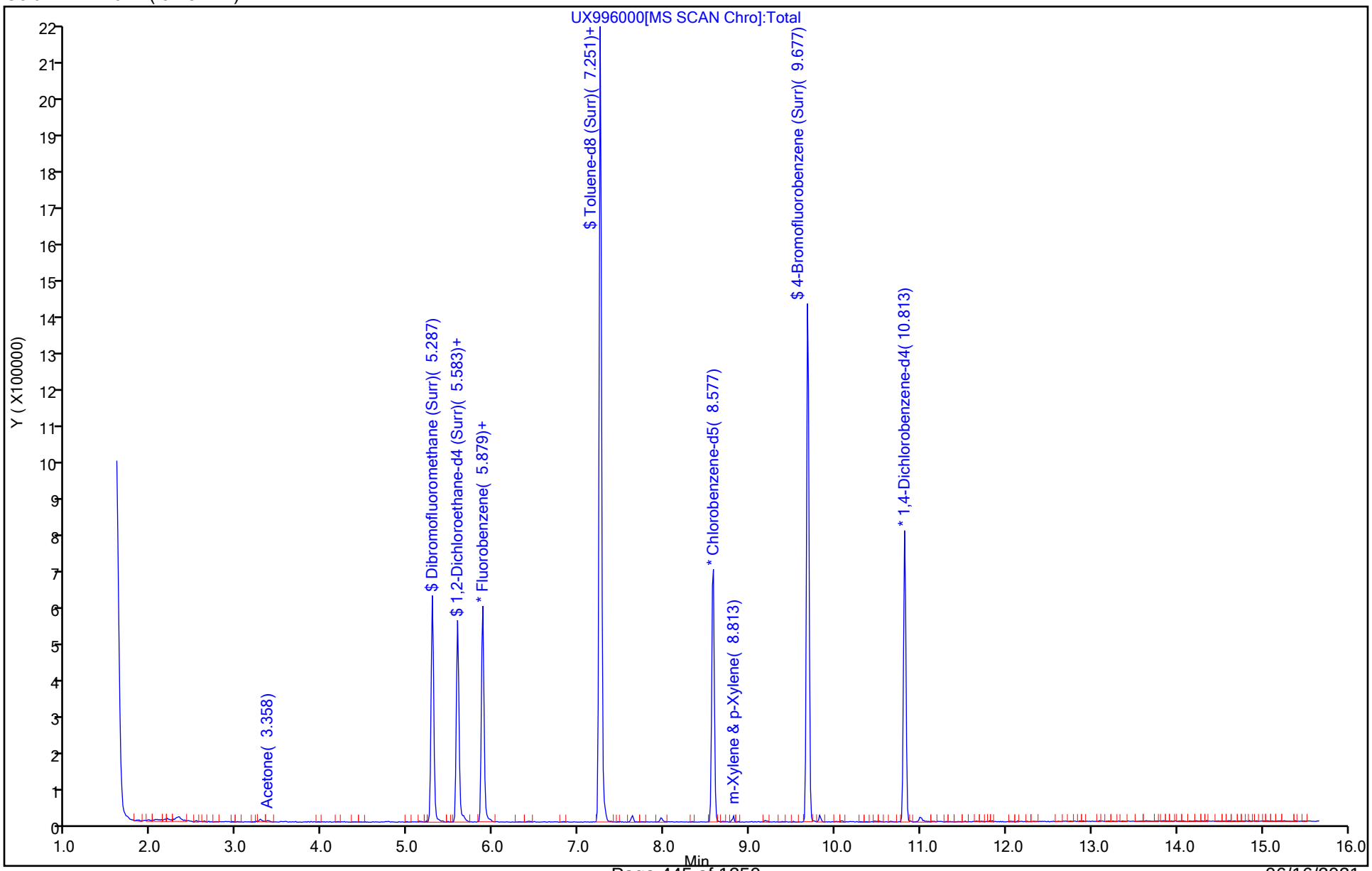
Report Date: 14-Jun-2021 08:01:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996000.D

Injection Date:	13-Jun-2021 17:54:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-17	Lab Sample ID:	240-150601-17	Worklist Smp#:	25
Client ID:	MSA-SW42A-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996000.D
Lims ID: 240-150601-B-17
Client ID: MSA-SW42A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 17:54:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-025
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:01:45 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:01:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	25.7	128.60
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.1	120.27
$ 6 Toluene-d8 (Surr)	20.0	27.3	136.56
$ 7 4-Bromofluorobenzene (Surr)	20.0	25.7	128.45

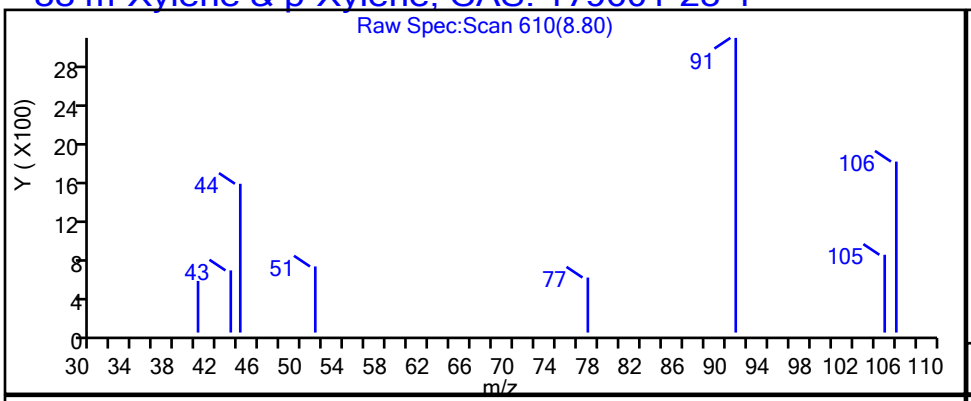
Report Date: 14-Jun-2021 08:01:46 Chrom Revision: 2.3 13-May-2021 07:57:40

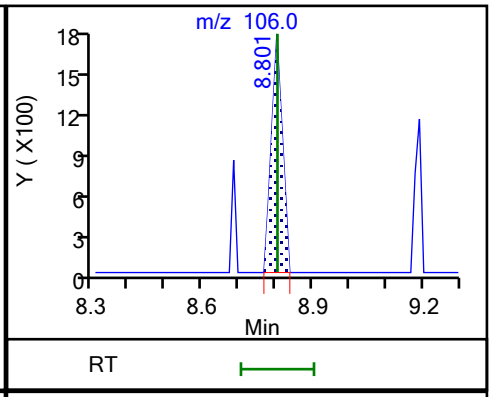
Eurofins TestAmerica, Canton

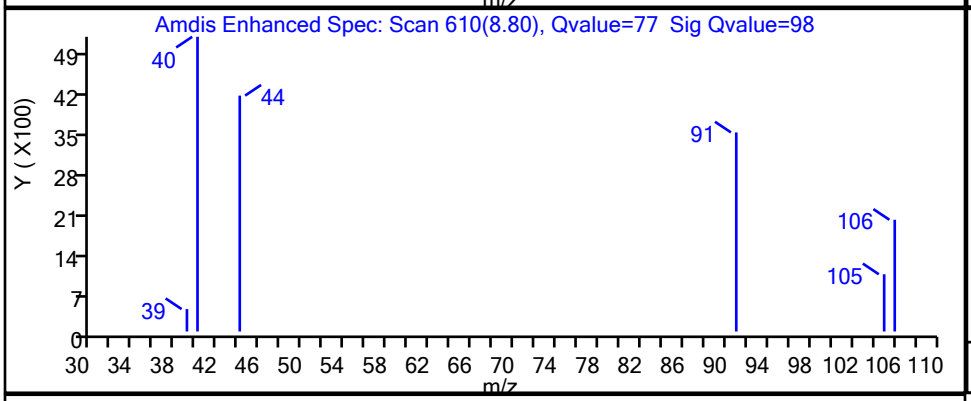
Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996000.D

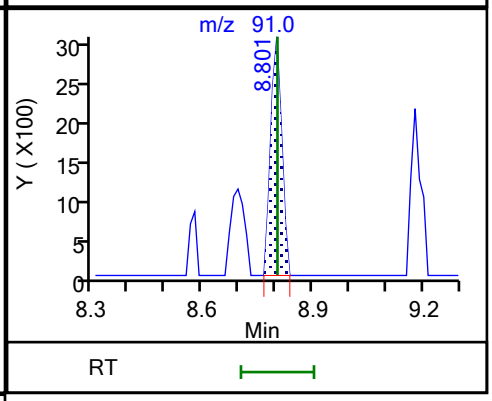
Injection Date:	13-Jun-2021 17:54:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-17	Lab Sample ID:	240-150601-17		
Client ID:	MSA-SW42A-060221				
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

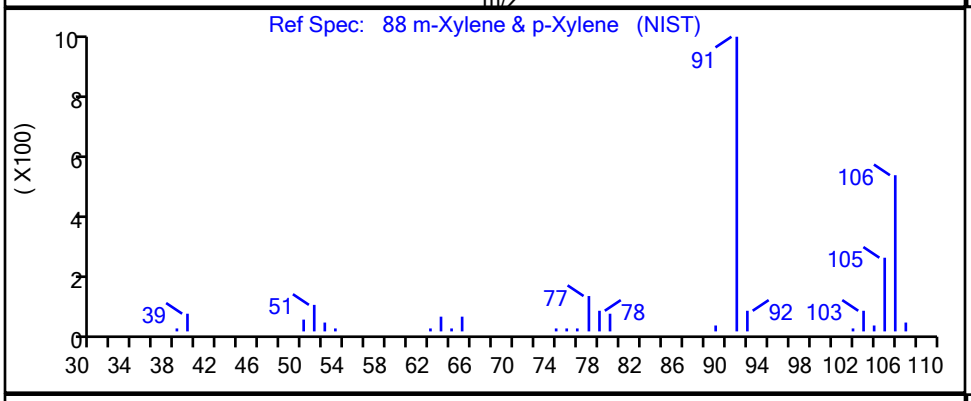
88 m-Xylene & p-Xylene, CAS: 179601-23-1

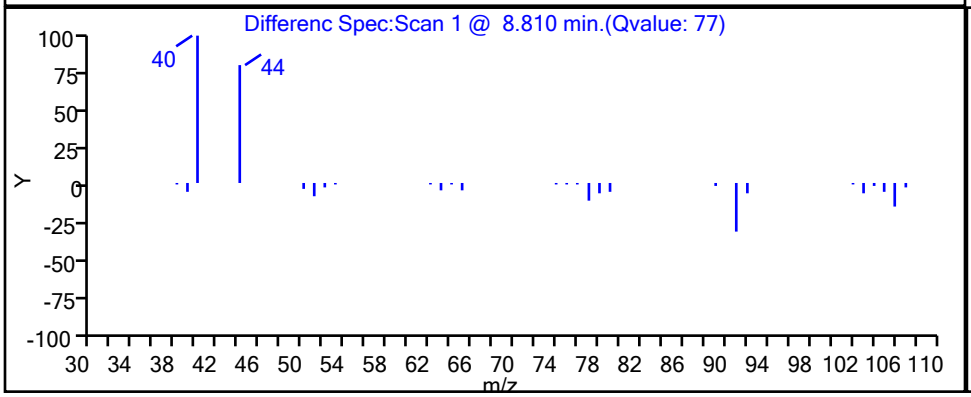


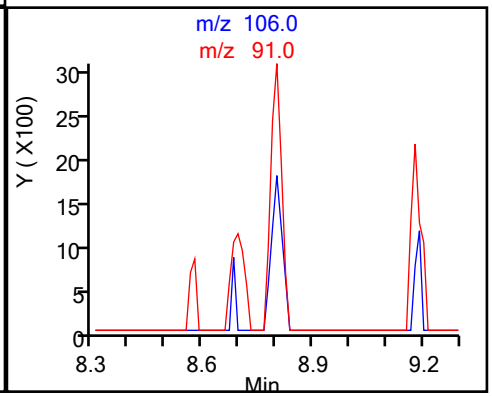












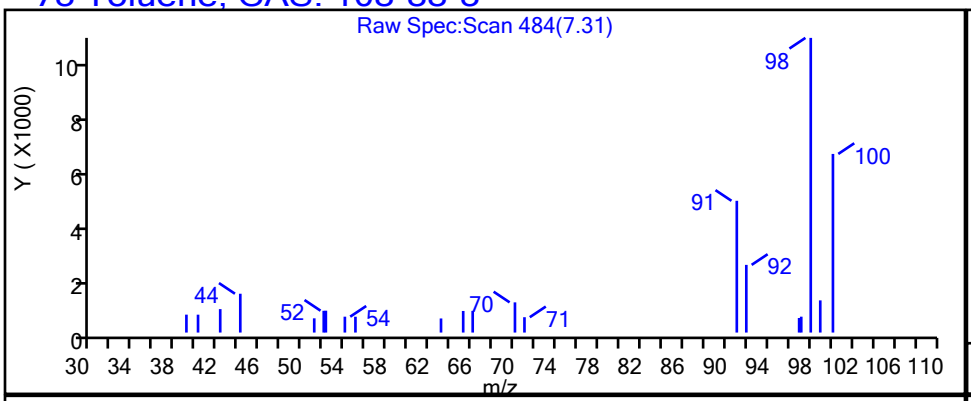
Report Date: 14-Jun-2021 08:01:45 Chrom Revision: 2.3 13-May-2021 07:57:40

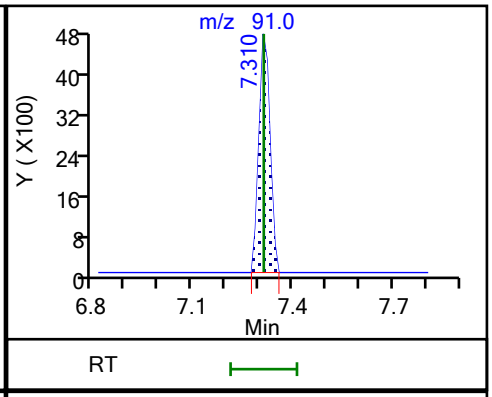
Eurofins TestAmerica, Canton

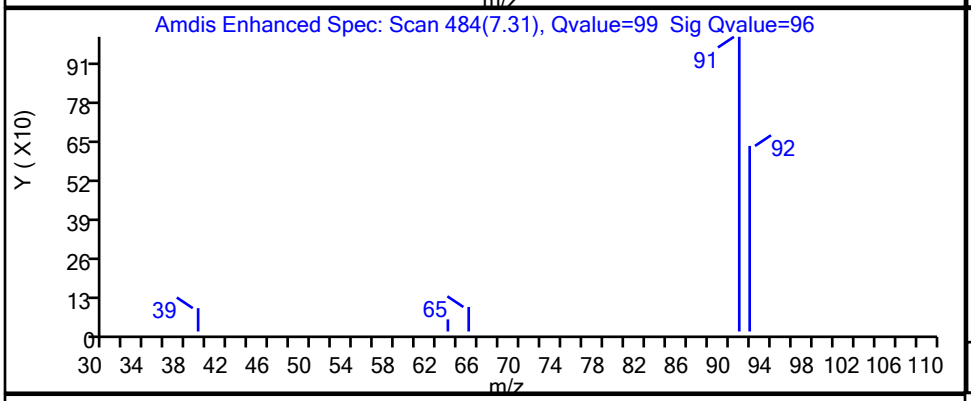
Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996000.D

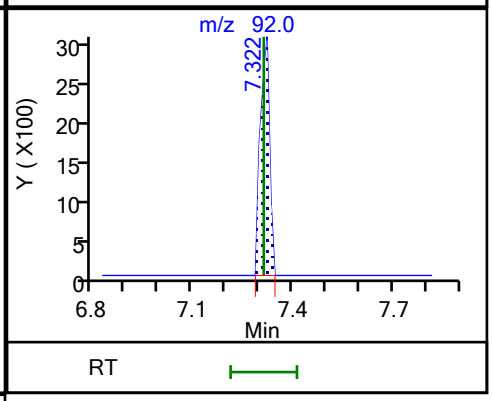
Injection Date:	13-Jun-2021 17:54:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-17	Lab Sample ID:	240-150601-17		
Client ID:	MSA-SW42A-060221				
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

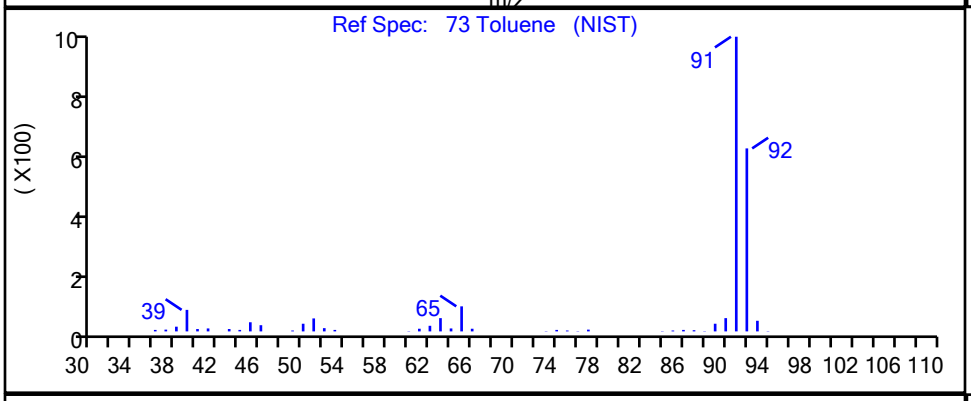
73 Toluene, CAS: 108-88-3

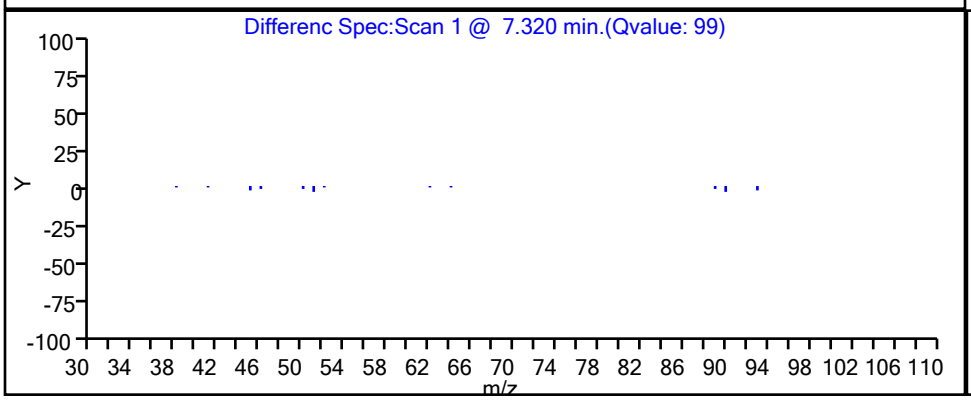


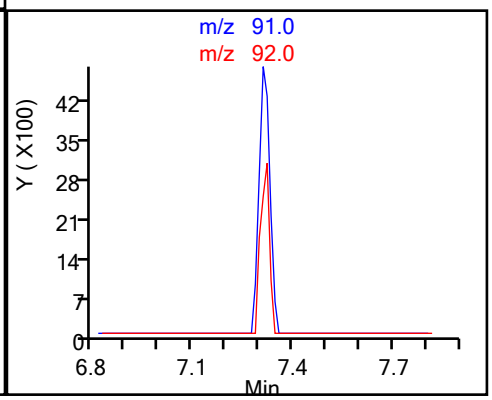












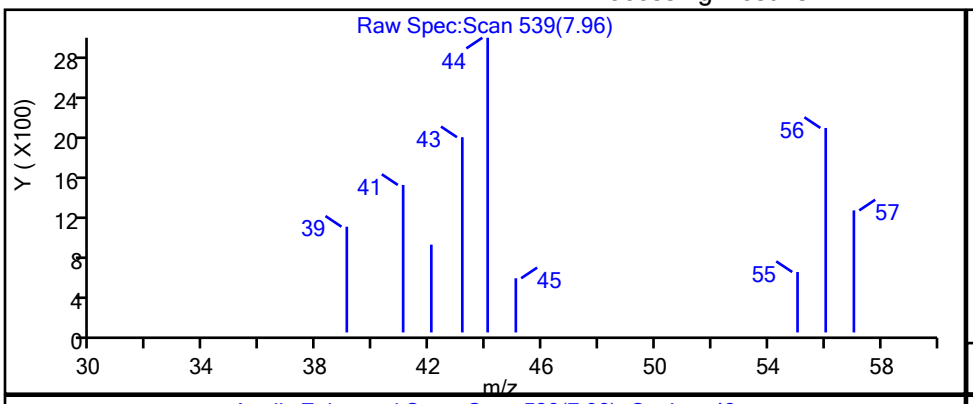
User Disabled Compound Report

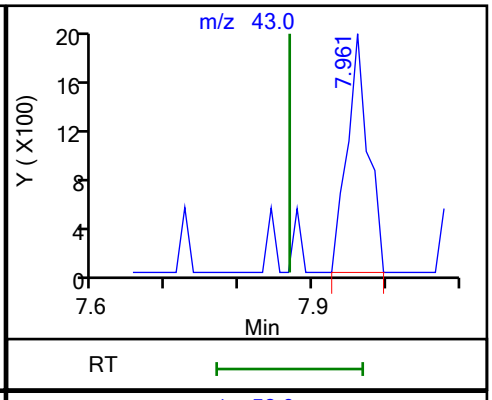
Eurofins TestAmerica, Canton

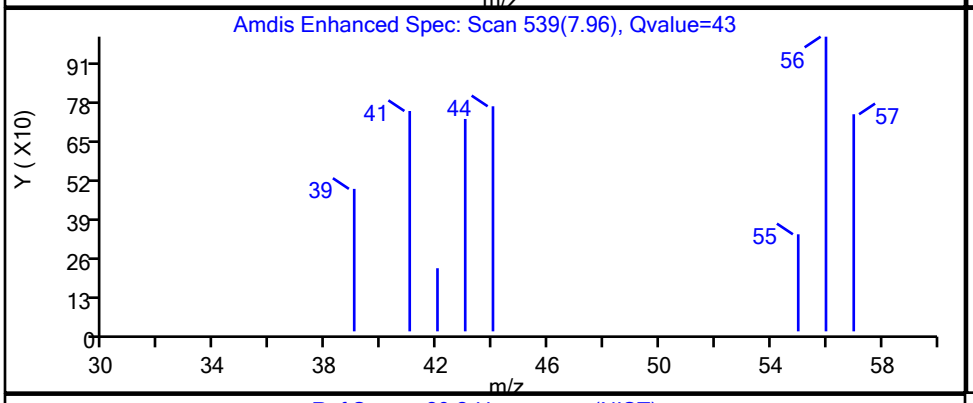
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996000.D				
Injection Date:	13-Jun-2021 17:54:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-17	Lab Sample ID:	240-150601-17		
Client ID:	MSA-SW42A-060221				
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

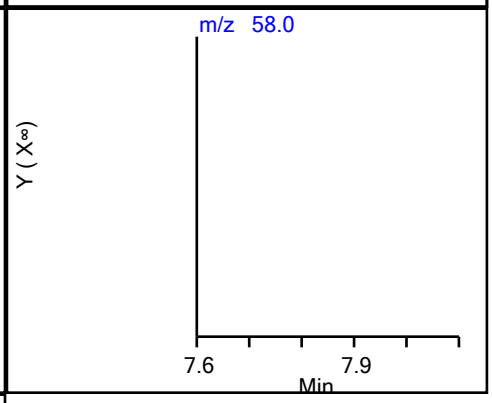
80 2-Hexanone, CAS: 591-78-6

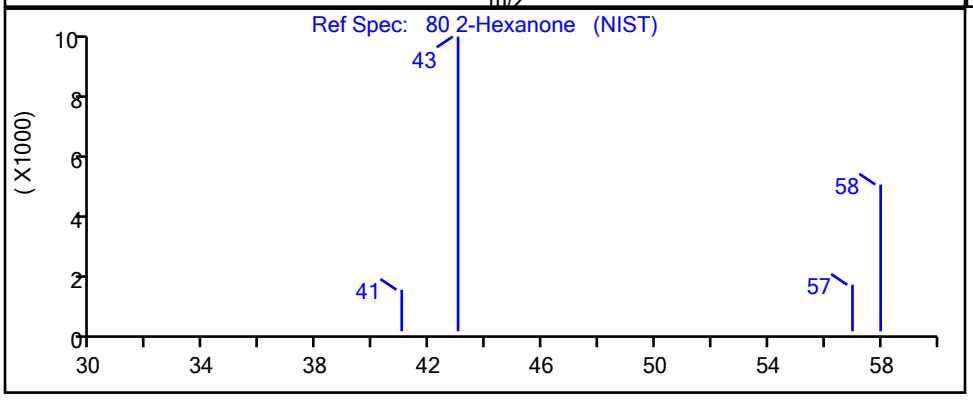
Processing Results











RT	Mass	Response	Amount
7.96	43.00	3877	0.523230
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 08:01:37

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-060221 Lab Sample ID: 240-150601-18

Matrix: Water Lab File ID: UX996001.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:11

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-060221 Lab Sample ID: 240-150601-18

Matrix: Water Lab File ID: UX996001.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:11

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-060221 Lab Sample ID: 240-150601-18

Matrix: Water Lab File ID: UX996001.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:11

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	142	S1+	47-134
1868-53-7	Dibromofluoromethane (Surr)	147	S1+	78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	135	S1+	75-130
2037-26-5	Toluene-d8 (Surr)	148	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-060221 Lab Sample ID: 240-150601-18

Matrix: Water Lab File ID: UX996001.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:11

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-060221 Lab Sample ID: 240-150601-18

Matrix: Water Lab File ID: UX996001.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:11

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX996001.D
Lims ID: 240-150601-B-18
Client ID: MSA-SW42B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 18:17:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-026
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:02 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:02:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.879	5.879	0.000	99	552195	20.0	
* 2 Chlorobenzene-d5	117	8.577	8.577	0.000	84	458839	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.813	10.813	0.000	96	234646	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.287	5.287	0.000	93	404546	29.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.583	5.583	0.000	99	422789	26.9	
$ 6 Toluene-d8 (Surr)	98	7.251	7.251	0.000	92	1632502	29.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.677	9.677	0.000	88	612385	28.3	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	7
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.358	3.360	-0.002	69	1880	1.03	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	7
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

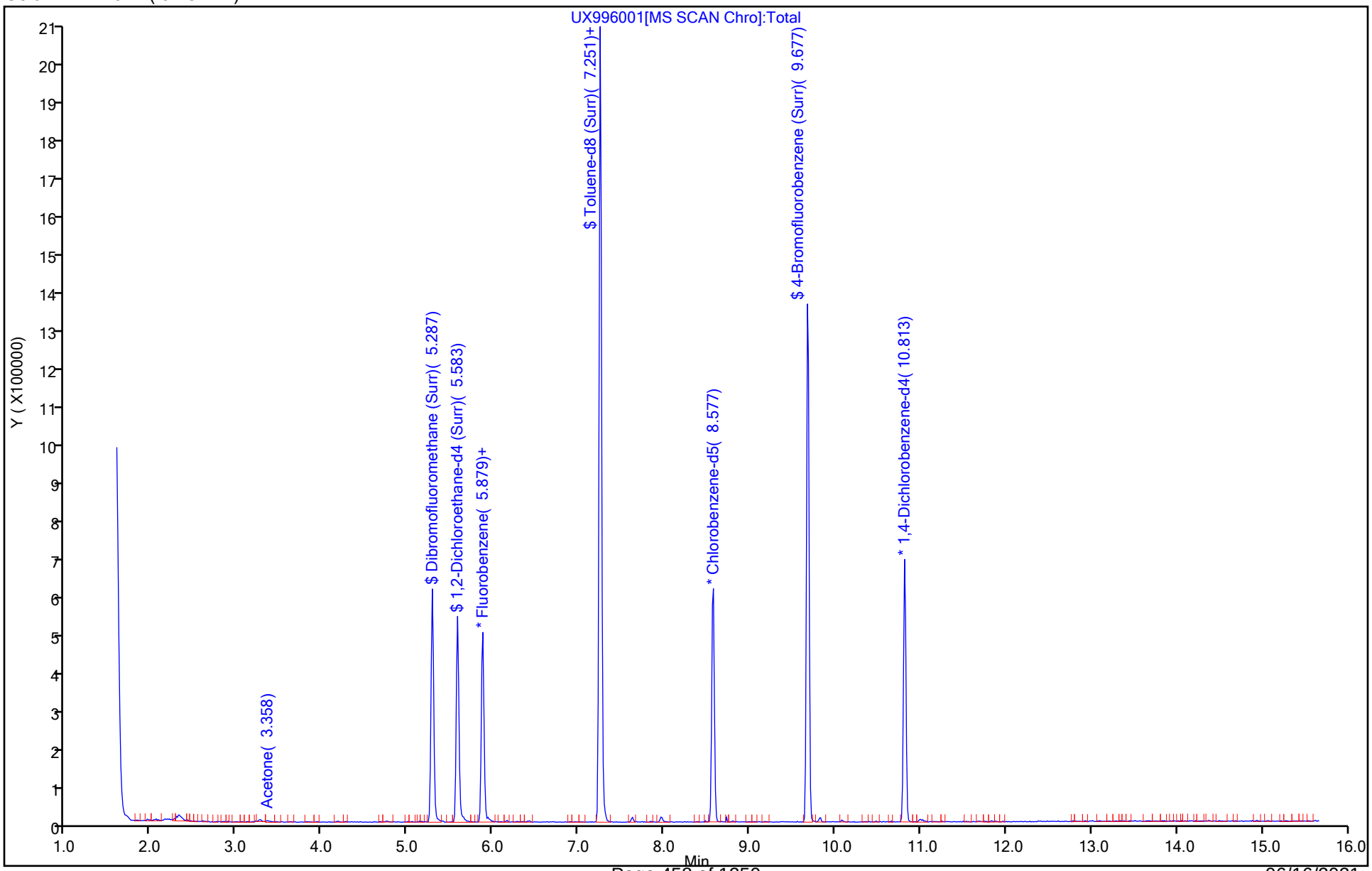
Report Date: 14-Jun-2021 08:02:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996001.D

Injection Date:	13-Jun-2021 18:17:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-18	Lab Sample ID:	240-150601-18	Worklist Smp#:	26
Client ID:	MSA-SW42B-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996001.D
Lims ID: 240-150601-B-18
Client ID: MSA-SW42B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 18:17:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-026
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:02 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:02:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	29.3	146.58
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	26.9	134.65
$ 6 Toluene-d8 (Surr)	20.0	29.6	148.00
$ 7 4-Bromofluorobenzene (Surr)	20.0	28.3	141.63

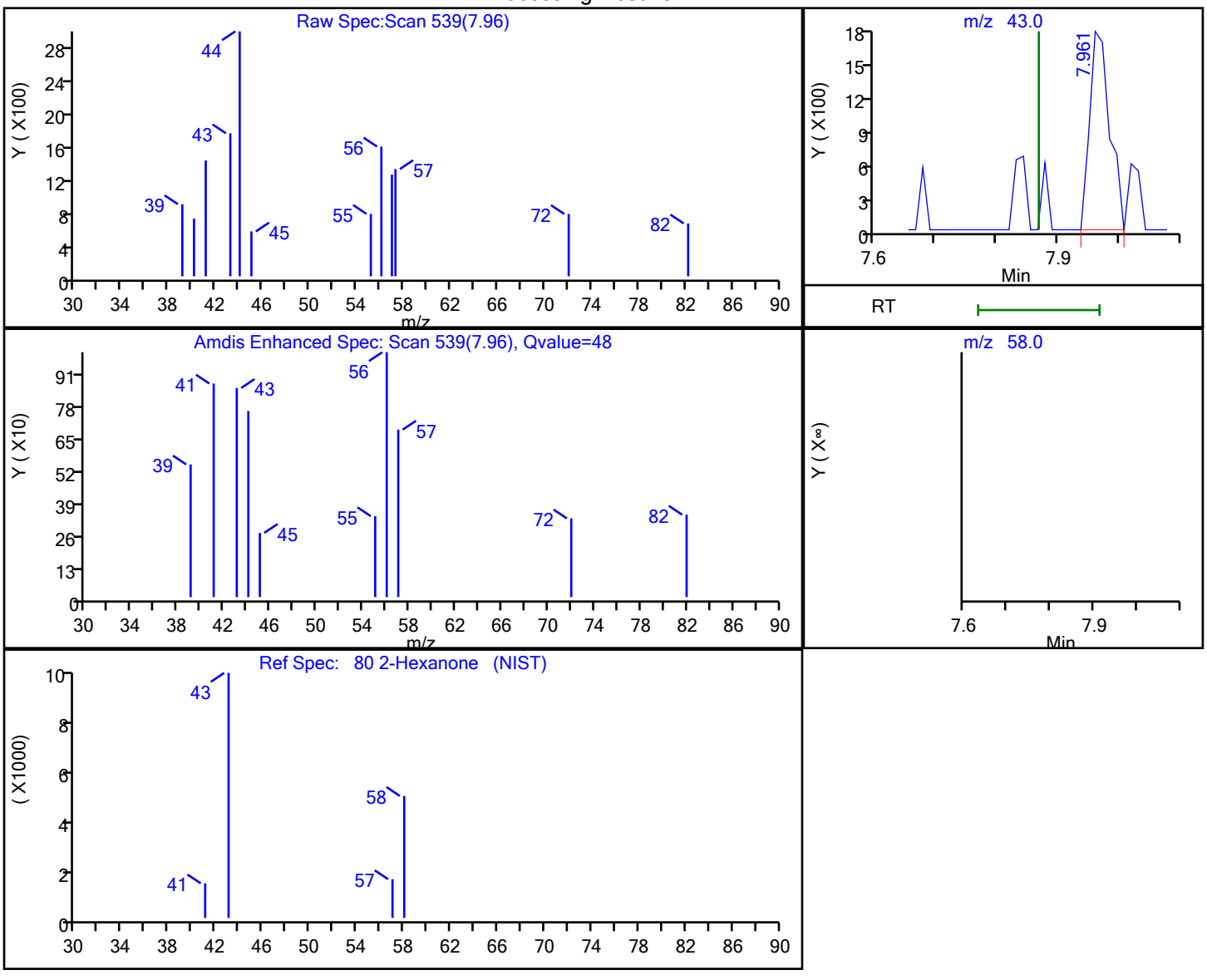
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996001.D				
Injection Date:	13-Jun-2021 18:17:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-18	Lab Sample ID:	240-150601-18		
Client ID:	MSA-SW42B-060221				
Operator ID:	001765	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.96	43.00	3953	0.581108
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 08:01:56

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-060221 Lab Sample ID: 240-150601-19

Matrix: Water Lab File ID: UX996002.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:18

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-060221 Lab Sample ID: 240-150601-19

Matrix: Water Lab File ID: UX996002.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:18

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-060221 Lab Sample ID: 240-150601-19

Matrix: Water Lab File ID: UX996002.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:18

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	127		47-134
1868-53-7	Dibromofluoromethane (Surr)	133	S1+	78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	136	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-060221 Lab Sample ID: 240-150601-19

Matrix: Water Lab File ID: UX996002.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:18

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-060221 Lab Sample ID: 240-150601-19

Matrix: Water Lab File ID: UX996002.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:18

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 18:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX996002.D
Lims ID: 240-150601-B-19
Client ID: MSA-SW42C-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 18:39:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-027
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:23 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:02:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.880	5.879	0.001	99	593529	20.0	
* 2 Chlorobenzene-d5	117	8.577	8.577	0.000	84	490362	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.813	0.001	95	257079	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.288	5.287	0.001	93	395102	26.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.584	5.583	0.001	99	416627	24.7	
$ 6 Toluene-d8 (Surr)	98	7.252	7.251	0.001	92	1607810	27.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.678	9.677	0.001	88	588344	25.5	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.359	3.360	-0.001	59	2643	1.70	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

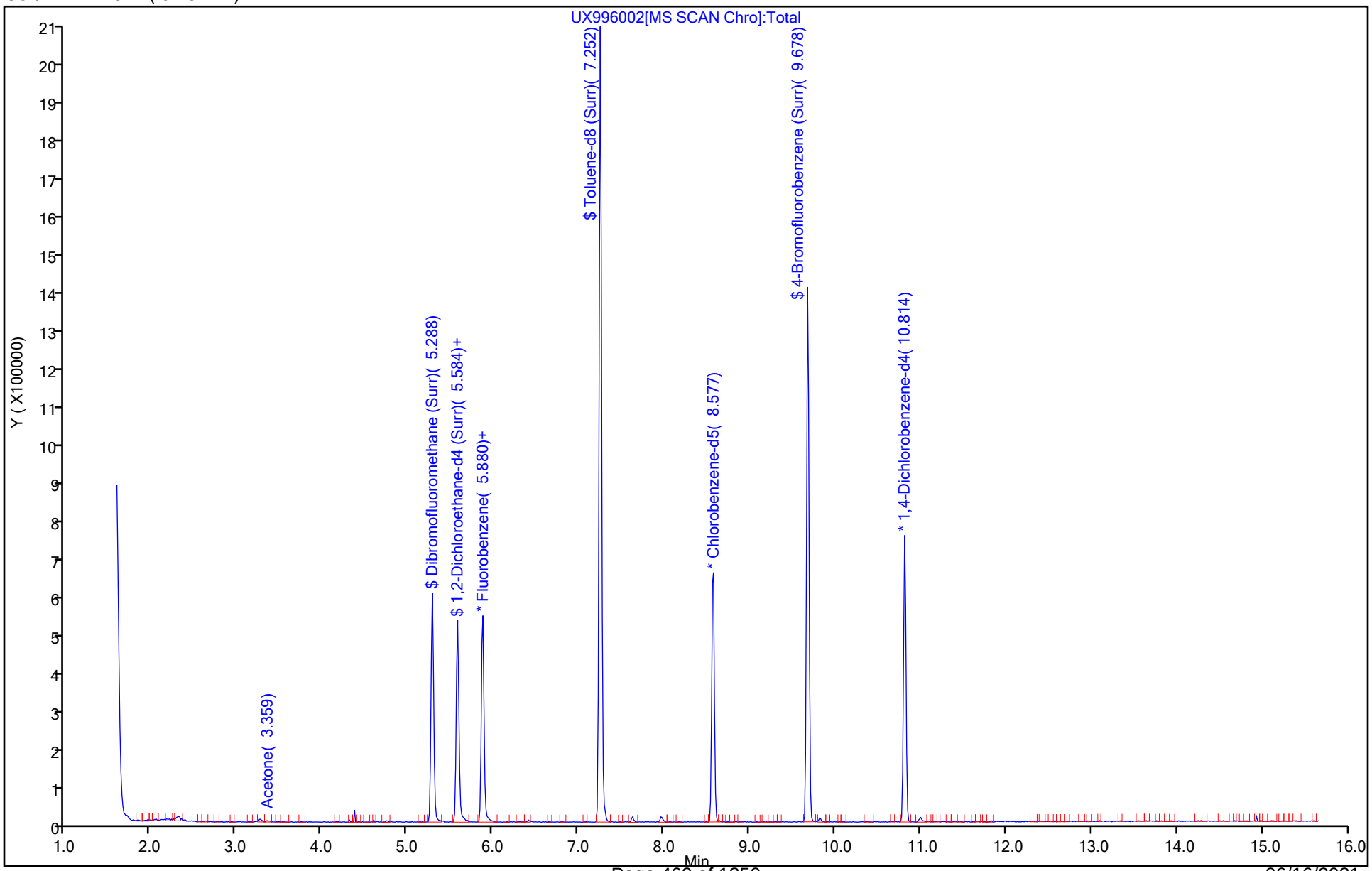
Report Date: 14-Jun-2021 08:02:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996002.D

Injection Date:	13-Jun-2021 18:39:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-19	Lab Sample ID:	240-150601-19	Worklist Smp#:	27
Client ID:	MSA-SW42C-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996002.D
Lims ID: 240-150601-B-19
Client ID: MSA-SW42C-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 18:39:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-027
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:23 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:02:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	26.6	133.19
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.7	123.45
$ 6 Toluene-d8 (Surr)	20.0	27.3	136.39
$ 7 4-Bromofluorobenzene (Surr)	20.0	25.5	127.32

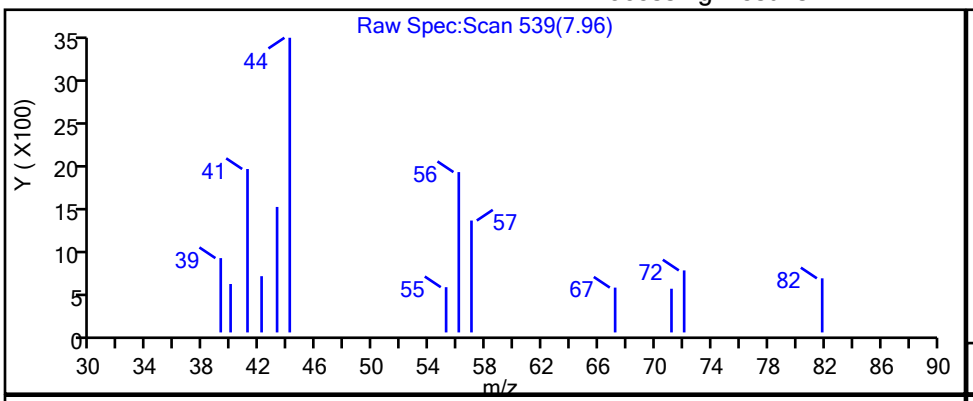
User Disabled Compound Report

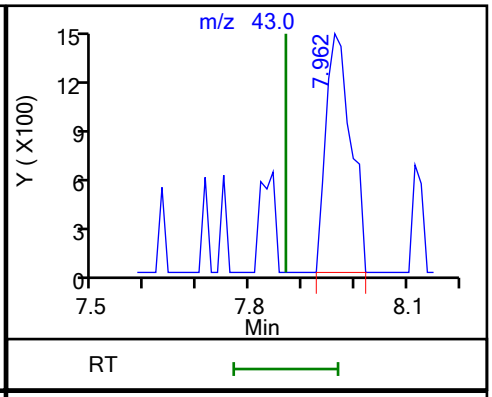
Eurofins TestAmerica, Canton

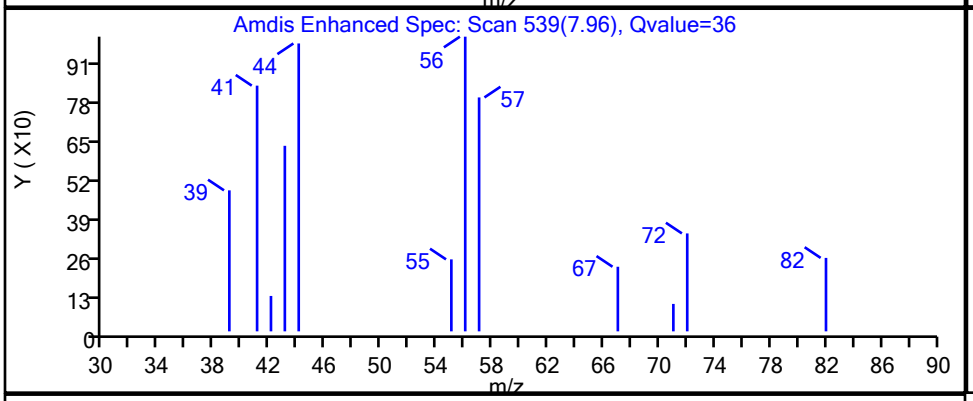
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996002.D				
Injection Date:	13-Jun-2021 18:39:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-19	Lab Sample ID:	240-150601-19		
Client ID:	MSA-SW42C-060221				
Operator ID:	001765	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

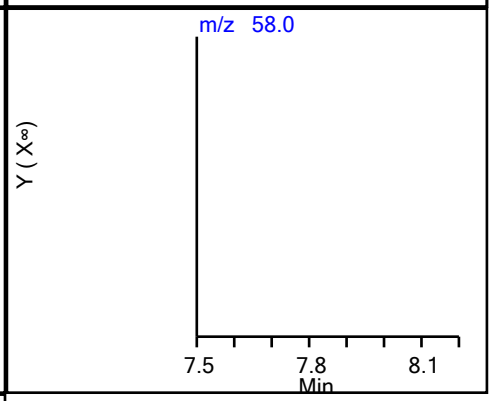
80 2-Hexanone, CAS: 591-78-6

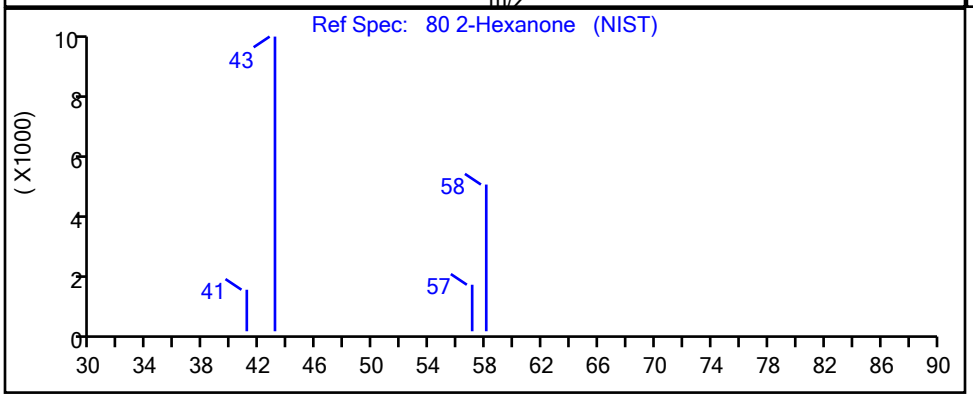
Processing Results











RT	Mass	Response	Amount
7.96	43.00	4856	0.667962
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 08:02:10

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-060221 Lab Sample ID: 240-150601-20

Matrix: Water Lab File ID: UX996003.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:24

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-060221 Lab Sample ID: 240-150601-20

Matrix: Water Lab File ID: UX996003.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:24

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-060221 Lab Sample ID: 240-150601-20

Matrix: Water Lab File ID: UX996003.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:24

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	130		47-134
1868-53-7	Dibromofluoromethane (Surr)	133	S1+	78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	139	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-060221 Lab Sample ID: 240-150601-20

Matrix: Water Lab File ID: UX996003.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:24

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-060221 Lab Sample ID: 240-150601-20

Matrix: Water Lab File ID: UX996003.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:24

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC	2.35	1.0	U	8%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996003.D
Lims ID: 240-150601-B-20
Client ID: MSA-SW42D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 19:02:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-028
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:51 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:02:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	603117	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	85	494055	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.813	-0.002	95	253128	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	93	402000	26.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	100	423078	24.7	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	92	1648623	27.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	89	607331	26.1	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	U
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58	3.333	3.360	-0.027	70	3229	2.27	
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	7
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	U
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51	2.351	2.413	-0.062	8	797	0.0264	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

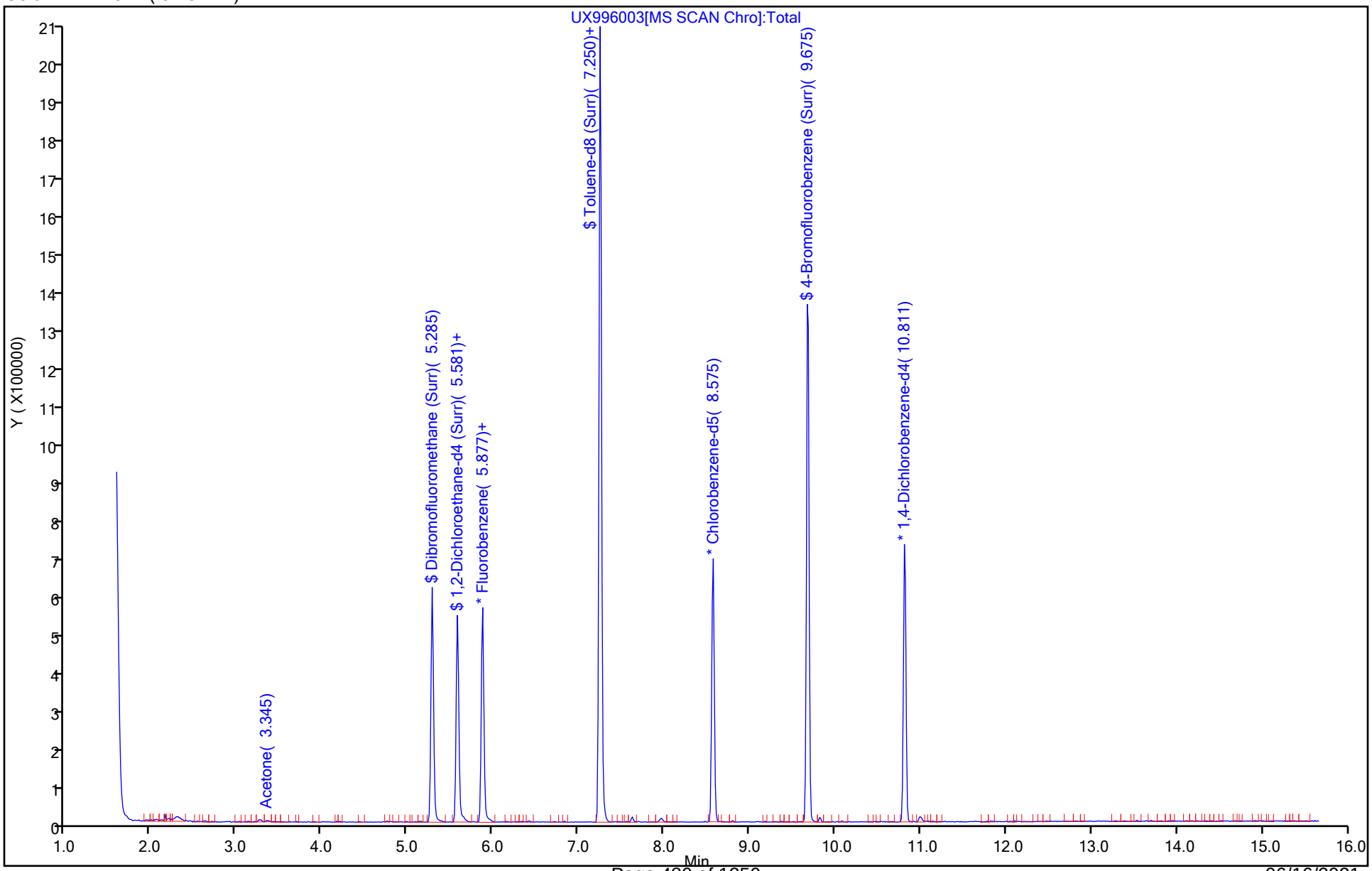
Report Date: 14-Jun-2021 08:02:51 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996003.D

Injection Date:	13-Jun-2021 19:02:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-20	Lab Sample ID:	240-150601-20	Worklist Smp#:	28
Client ID:	MSA-SW42D-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996003.D
Lims ID: 240-150601-B-20
Client ID: MSA-SW42D-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 19:02:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-028
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:51 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:02:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	26.7	133.36
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.7	123.37
$ 6 Toluene-d8 (Surr)	20.0	27.8	138.81
$ 7 4-Bromofluorobenzene (Surr)	20.0	26.1	130.45

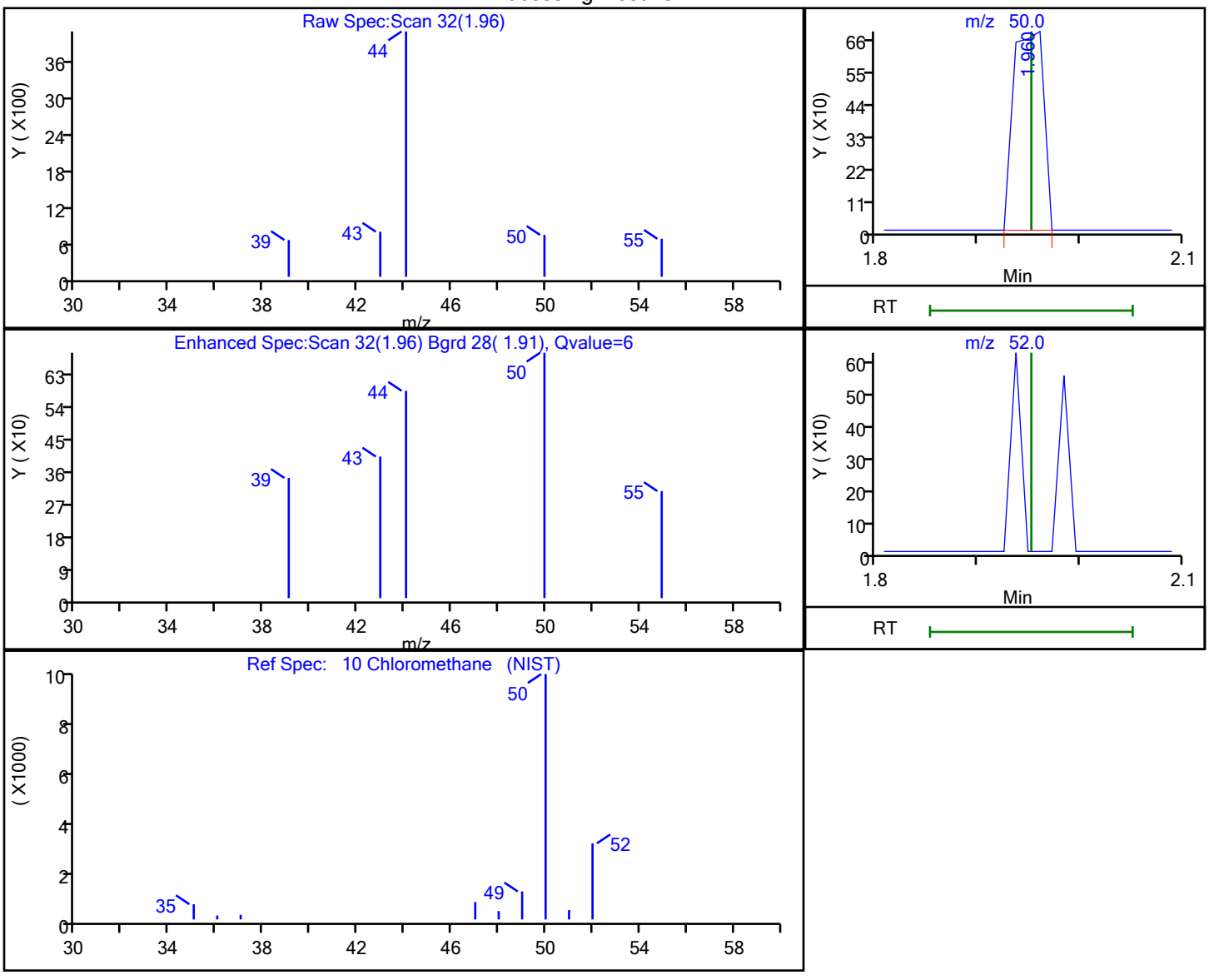
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996003.D				
Injection Date:	13-Jun-2021 19:02:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-20	Lab Sample ID:	240-150601-20		
Client ID:	MSA-SW42D-060221				
Operator ID:	001765	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	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
1.96	50.00	1424	0.091882
1.95	52.00	0	

Reviewer: bosworthh, 14-Jun-2021 08:02:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

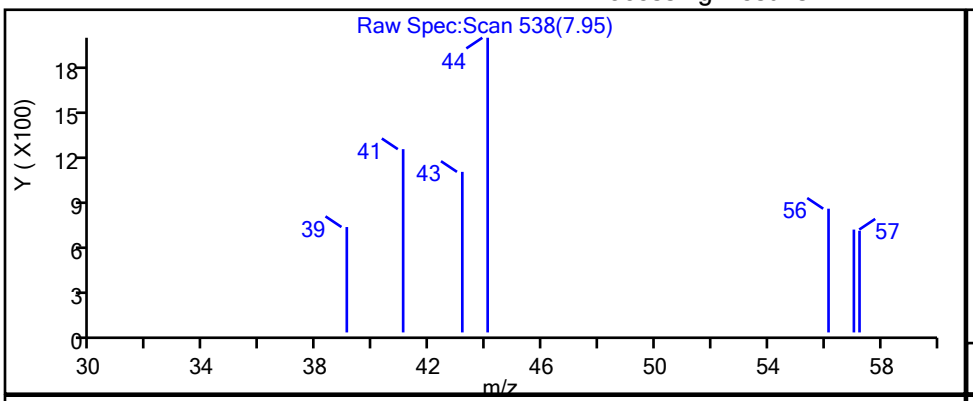
User Disabled Compound Report

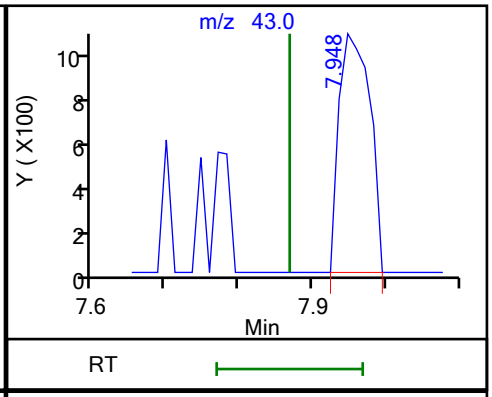
Eurofins TestAmerica, Canton

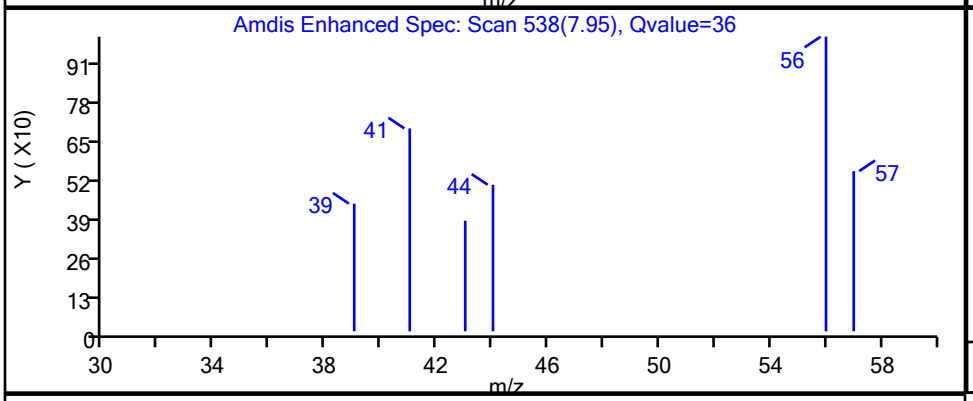
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996003.D				
Injection Date:	13-Jun-2021 19:02:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-20	Lab Sample ID:	240-150601-20		
Client ID:	MSA-SW42D-060221				
Operator ID:	001765	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

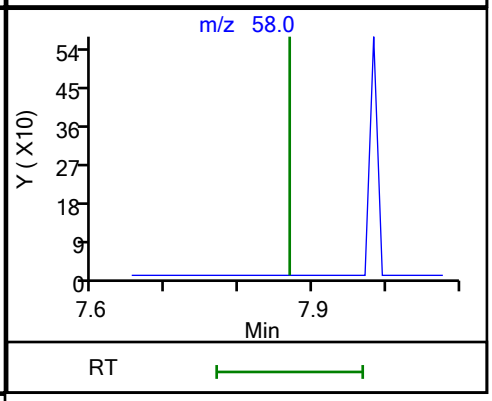
80 2-Hexanone, CAS: 591-78-6

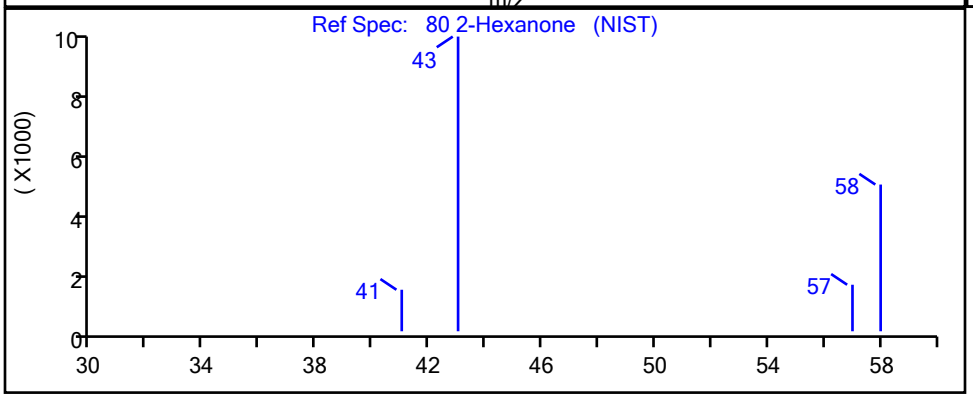
Processing Results











RT	Mass	Response	Amount
7.95	43.00	3139	0.428555
7.87	58.00	0	

Reviewer: bosworthh, 14-Jun-2021 08:02:38

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-060221 Lab Sample ID: 240-150601-21

Matrix: Water Lab File ID: UX996004.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:32

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-060221 Lab Sample ID: 240-150601-21

Matrix: Water Lab File ID: UX996004.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:32

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-060221 Lab Sample ID: 240-150601-21

Matrix: Water Lab File ID: UX996004.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:32

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	146	S1+	47-134
1868-53-7	Dibromofluoromethane (Surr)	147	S1+	78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	133	S1+	75-130
2037-26-5	Toluene-d8 (Surr)	154	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-060221 Lab Sample ID: 240-150601-21

Matrix: Water Lab File ID: UX996004.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:32

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-060221 Lab Sample ID: 240-150601-21

Matrix: Water Lab File ID: UX996004.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:32

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX996004.D
Lims ID: 240-150601-B-21
Client ID: MSA-SW43A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 19:25:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-029
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:51 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:03:05

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.877	5.879	-0.002	99	538891	20.0	
*	2 Chlorobenzene-d5	117	8.575	8.577	-0.002	85	437403	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.811	10.813	-0.002	96	234725	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	93	396784	29.5	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	99	408352	26.7	
$	6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	92	1622273	30.9	
$	7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	88	601895	29.2	
	9 Dichlorodifluoromethane	85		1.763				ND	
	10 Chloromethane	50		1.952				ND	
	11 Vinyl chloride	62		2.082				ND	
	13 Bromomethane	94		2.437				ND	
	15 Chloroethane	64		2.544				ND	
	17 Trichlorofluoromethane	101		2.816				ND	
	24 1,1-Dichloroethene	61		3.325				ND	
	22 112TCTFE	101		3.325				ND	
	23 Acetone	58	3.368	3.360	0.008	61	1652	0.8120	
	26 Carbon disulfide	76		3.537				ND	7
	30 Methylene Chloride	49		3.762				ND	
	31 2-Methyl-2-propanol	59		3.845				ND	
	33 Methyl tert-butyl ether	73		4.011				ND	
	34 trans-1,2-Dichloroethene	61		4.023				ND	
	36 1,1-Dichloroethane	63		4.389				ND	
	37 Vinyl acetate	43		4.413				ND	7
	38 Isopropyl ether	87		4.435				ND	
	40 Tert-butyl ethyl ether	59		4.755				ND	
	41 2-Butanone (MEK)	72		4.886				ND	
	43 cis-1,2-Dichloroethene	96		4.886				ND	
	42 2,2-Dichloropropane	77		4.898				ND	
	47 Chlorobromomethane	49		5.088				ND	
	49 Chloroform	83		5.147				ND	
	50 1,1,1-Trichloroethane	97		5.336				ND	
	52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78		5.644				ND	7
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91		7.312				ND	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106		8.803				ND	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106		17.230				ND	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

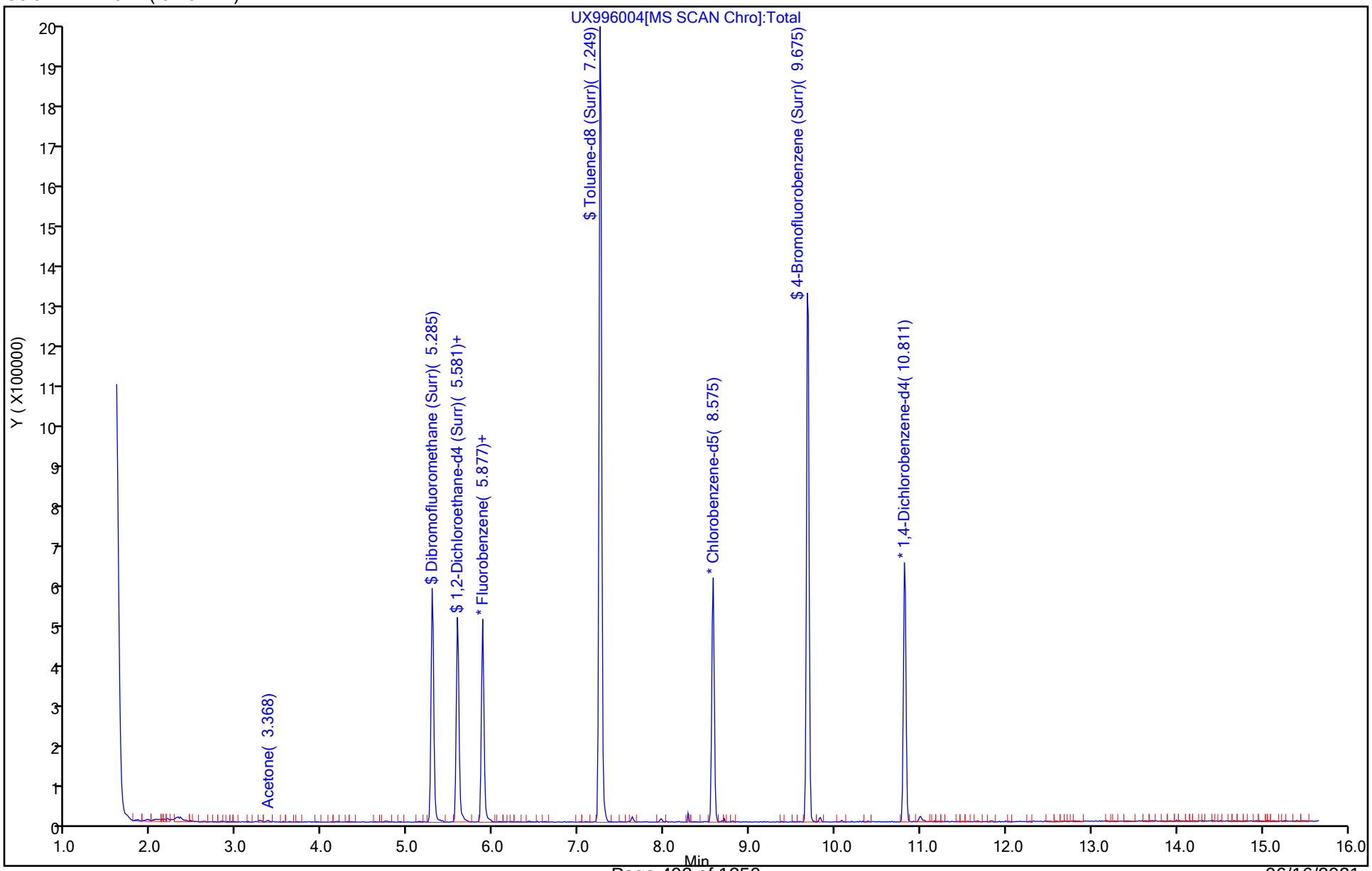
Report Date: 14-Jun-2021 08:03:05 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996004.D

Injection Date:	13-Jun-2021 19:25:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-21	Lab Sample ID:	240-150601-21	Worklist Smp#:	29
Client ID:	MSA-SW43A-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996004.D
Lims ID: 240-150601-B-21
Client ID: MSA-SW43A-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 19:25:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-029
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:51 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:03:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	29.5	147.32
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	26.7	133.27
$ 6 Toluene-d8 (Surr)	20.0	30.9	154.28
$ 7 4-Bromofluorobenzene (Surr)	20.0	29.2	146.02

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-060221 Lab Sample ID: 240-150601-22

Matrix: Water Lab File ID: UX996005.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-060221 Lab Sample ID: 240-150601-22

Matrix: Water Lab File ID: UX996005.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.098	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	40	U	40	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	0.16	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-060221 Lab Sample ID: 240-150601-22

Matrix: Water Lab File ID: UX996005.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	130		47-134
1868-53-7	Dibromofluoromethane (Surr)	135	S1+	78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		75-130
2037-26-5	Toluene-d8 (Surr)	136	S1+	69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-060221 Lab Sample ID: 240-150601-22

Matrix: Water Lab File ID: UX996005.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-060221 Lab Sample ID: 240-150601-22

Matrix: Water Lab File ID: UX996005.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 19:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX996005.D
Lims ID: 240-150601-B-22
Client ID: MSA-SW43B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 19:47:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-030
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:51 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:03:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	602550	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	85	493594	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.823	10.813	0.010	95	258147	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	92	405403	26.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	99	417919	24.4	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	92	1616848	27.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	89	606456	26.1	
9 Dichlorodifluoromethane	85		1.763				ND	
10 Chloromethane	50		1.952				ND	7
11 Vinyl chloride	62		2.082				ND	
13 Bromomethane	94		2.437				ND	
15 Chloroethane	64		2.544				ND	
17 Trichlorofluoromethane	101		2.816				ND	
24 1,1-Dichloroethene	61		3.325				ND	
22 112TCTFE	101		3.325				ND	
23 Acetone	58		3.360				ND	7
26 Carbon disulfide	76		3.537				ND	7
30 Methylene Chloride	49		3.762				ND	
31 2-Methyl-2-propanol	59		3.845				ND	
33 Methyl tert-butyl ether	73		4.011				ND	
34 trans-1,2-Dichloroethene	61		4.023				ND	
36 1,1-Dichloroethane	63		4.389				ND	
37 Vinyl acetate	43		4.413				ND	7
38 Isopropyl ether	87		4.435				ND	
40 Tert-butyl ethyl ether	59		4.755				ND	
41 2-Butanone (MEK)	72		4.886				ND	
43 cis-1,2-Dichloroethene	96		4.886				ND	
42 2,2-Dichloropropane	77		4.898				ND	
47 Chlorobromomethane	49		5.088				ND	
49 Chloroform	83		5.147				ND	
50 1,1,1-Trichloroethane	97		5.336				ND	
52 1,1-Dichloropropene	75		5.466				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.478				ND	
56 1,2-Dichloroethane	62		5.644				ND	
55 Benzene	78	5.652	5.644	0.008	91	7598	0.1211	
57 Tert-amyl methyl ether	73		5.725				ND	
60 Trichloroethene	130		6.200				ND	
63 1,2-Dichloropropane	63		6.377				ND	
66 Dibromomethane	174		6.484				ND	
67 Dichlorobromomethane	83		6.614				ND	
69 2-Chloroethyl vinyl ether	63		6.851				ND	
71 cis-1,3-Dichloropropene	75		7.005				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123				ND	
73 Toluene	91	7.320	7.312	0.008	97	11429	0.1636	
74 trans-1,3-Dichloropropene	75		7.478				ND	
77 1,3-Dichloropropane	76		7.809				ND	
78 Tetrachloroethene	166		7.821				ND	
80 2-Hexanone	43		7.868				ND	
82 Chlorodibromomethane	129		8.022				ND	
83 Ethylene Dibromide	107		8.140				ND	
85 Chlorobenzene	112		8.602				ND	
86 1,1,1,2-Tetrachloroethane	131		8.661				ND	
87 Ethylbenzene	106		8.697				ND	
88 m-Xylene & p-Xylene	106	8.799	8.803	-0.004	92	3318	0.0976	
89 o-Xylene	106		9.182				ND	
90 Styrene	104		9.194				ND	
91 Bromoform	173		9.371				ND	
92 Isopropylbenzene	105		9.525				ND	
94 1,1,2,2-Tetrachloroethane	83		9.797				ND	
95 Bromobenzene	156		9.844				ND	
97 1,2,3-Trichloropropane	110		9.844				ND	
98 N-Propylbenzene	120		9.927				ND	
100 2-Chlorotoluene	126		10.022				ND	
102 4-Chlorotoluene	126		10.128				ND	
104 tert-Butylbenzene	119		10.424				ND	
106 1,2,4-Trimethylbenzene	105		10.460				ND	
107 sec-Butylbenzene	134		10.637				ND	
108 1,3-Dichlorobenzene	146		10.755				ND	
109 4-Isopropyltoluene	119		10.779				ND	
110 1,4-Dichlorobenzene	146		10.838				ND	
111 1,2,3-Trimethylbenzene	105		10.884				ND	
113 n-Butylbenzene	91		11.181				ND	
114 1,2-Dichlorobenzene	146		11.217				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974				ND	
117 1,2,4-Trichlorobenzene	180		12.826				ND	
118 Hexachlorobutadiene	225		13.004				ND	
119 Naphthalene	128		13.087				ND	
120 1,2,3-Trichlorobenzene	180		13.359				ND	
S 131 Xylenes, Total	106				0		0.0976	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

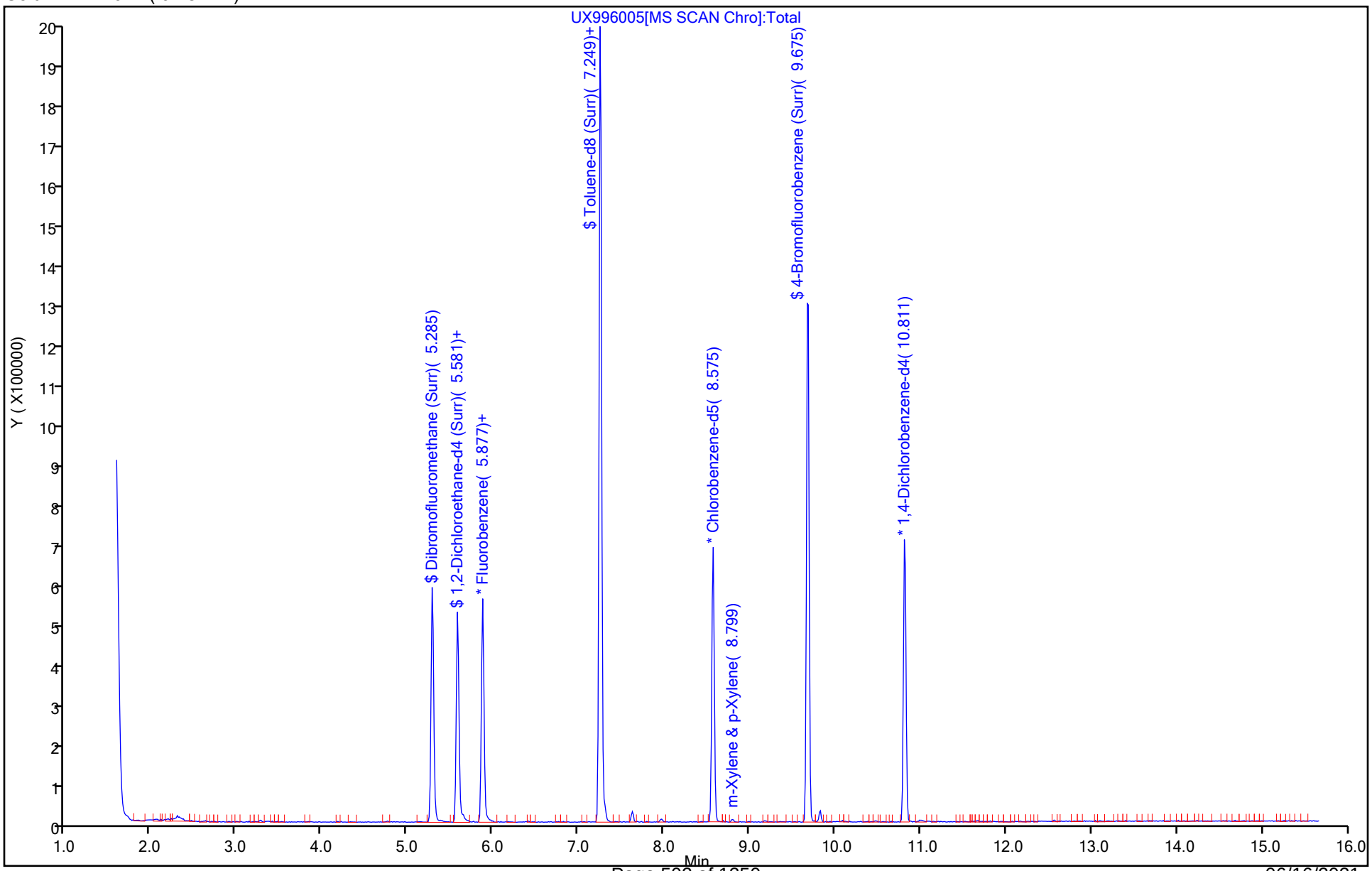
Report Date: 14-Jun-2021 08:03:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996005.D

Injection Date:	13-Jun-2021 19:47:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-150601-B-22	Lab Sample ID:	240-150601-22	Worklist Smp#:	30
Client ID:	MSA-SW43B-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996005.D
Lims ID: 240-150601-B-22
Client ID: MSA-SW43B-060221
Sample Type: Client
Inject. Date: 13-Jun-2021 19:47:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-030
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 08:02:51 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 08:03:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	26.9	134.62
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.4	121.98
$ 6 Toluene-d8 (Surr)	20.0	27.3	136.26
$ 7 4-Bromofluorobenzene (Surr)	20.0	26.1	130.38

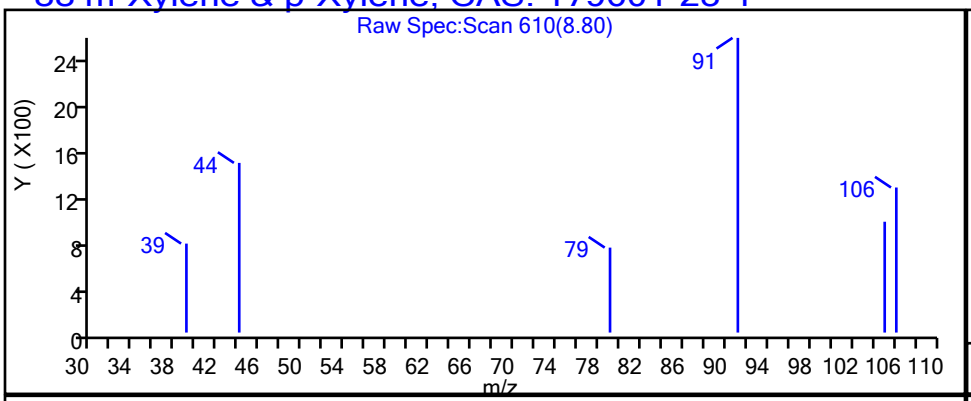
Report Date: 14-Jun-2021 08:03:24 Chrom Revision: 2.3 13-May-2021 07:57:40

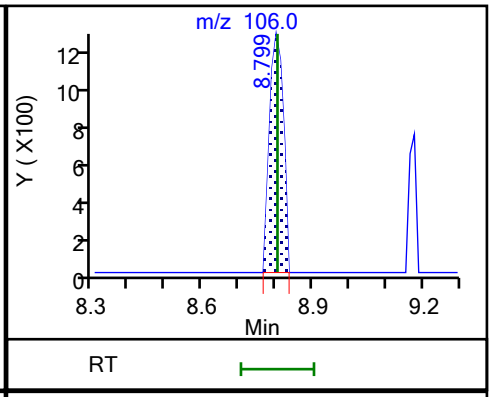
Eurofins TestAmerica, Canton

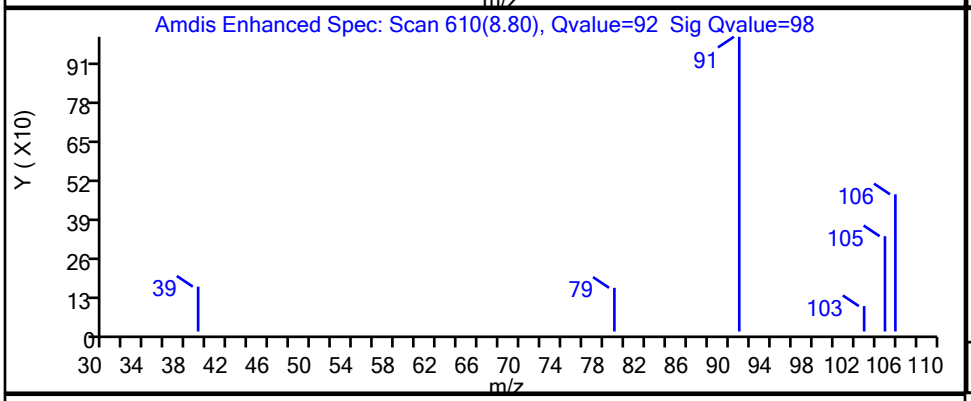
Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996005.D

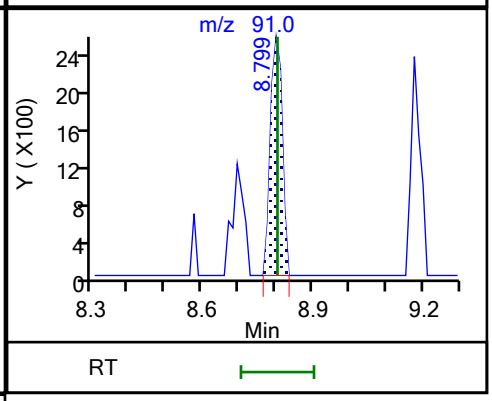
Injection Date:	13-Jun-2021 19:47:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-22	Lab Sample ID:	240-150601-22		
Client ID:	MSA-SW43B-060221				
Operator ID:	001765	ALS Bottle#:	30	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

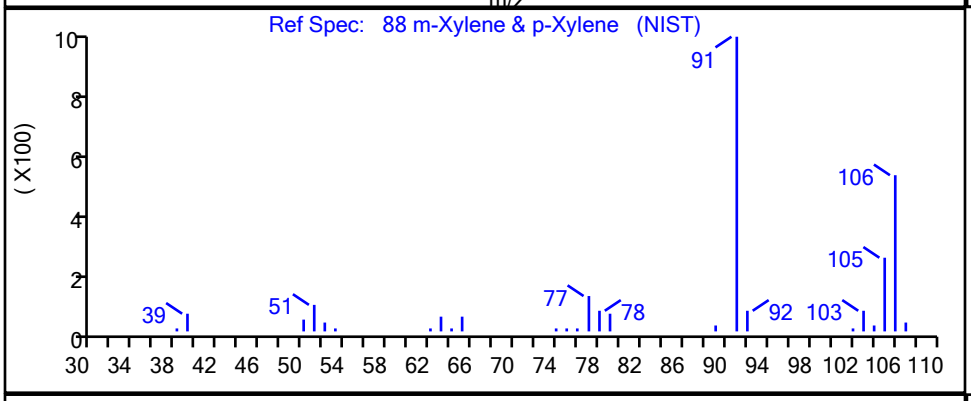
88 m-Xylene & p-Xylene, CAS: 179601-23-1

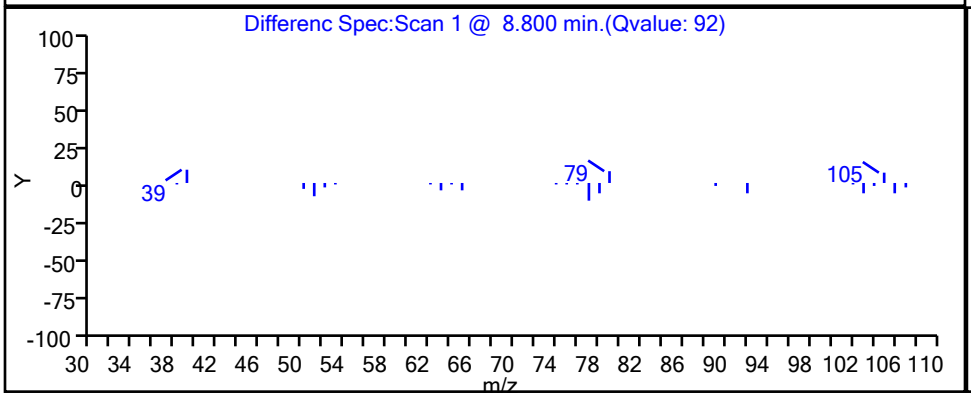


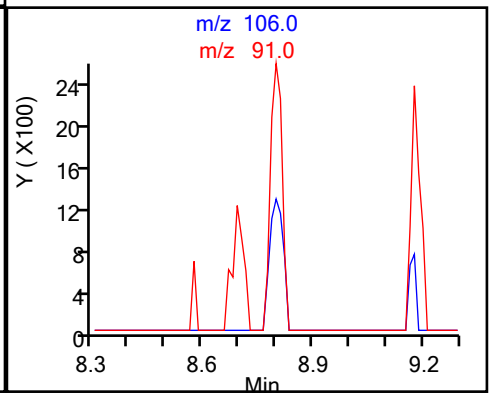










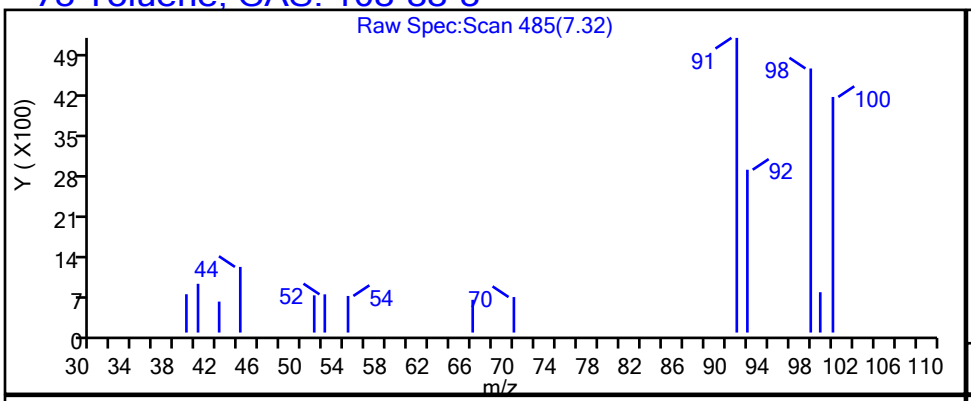


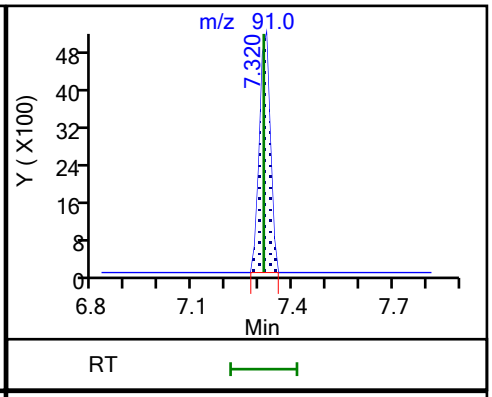
Report Date: 14-Jun-2021 08:03:24 Chrom Revision: 2.3 13-May-2021 07:57:40

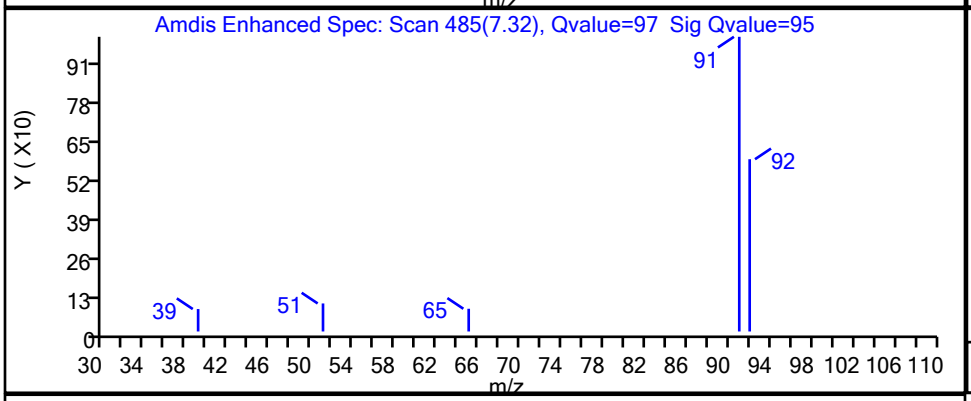
Eurofins TestAmerica, Canton

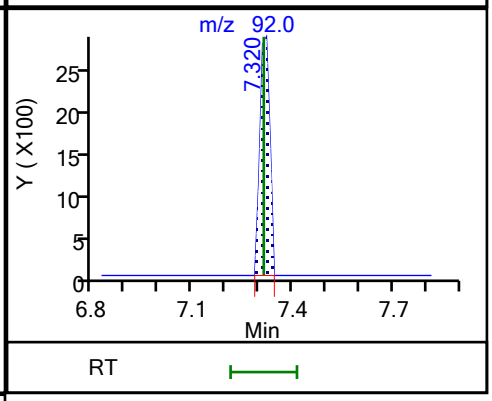
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX996005.D				
Injection Date:	13-Jun-2021 19:47:30	Instrument ID:	A3UX9		
Lims ID:	240-150601-B-22	Lab Sample ID:	240-150601-22		
Client ID:	MSA-SW43B-060221				
Operator ID:	001765	ALS Bottle#:	30	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

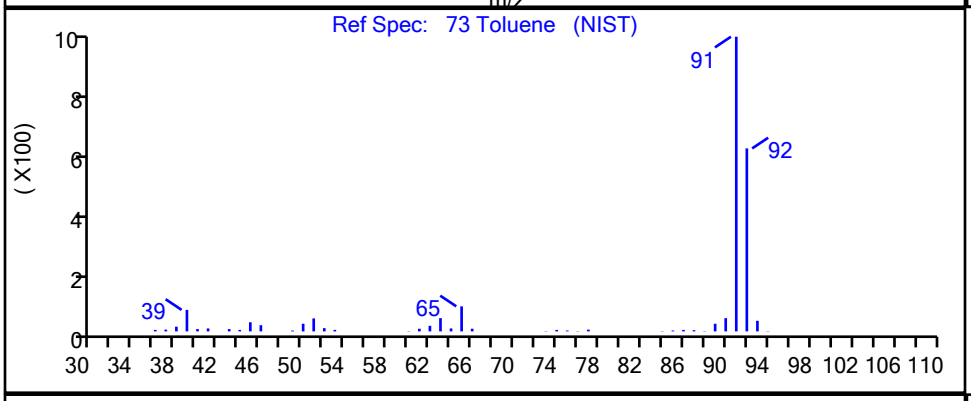
73 Toluene, CAS: 108-88-3

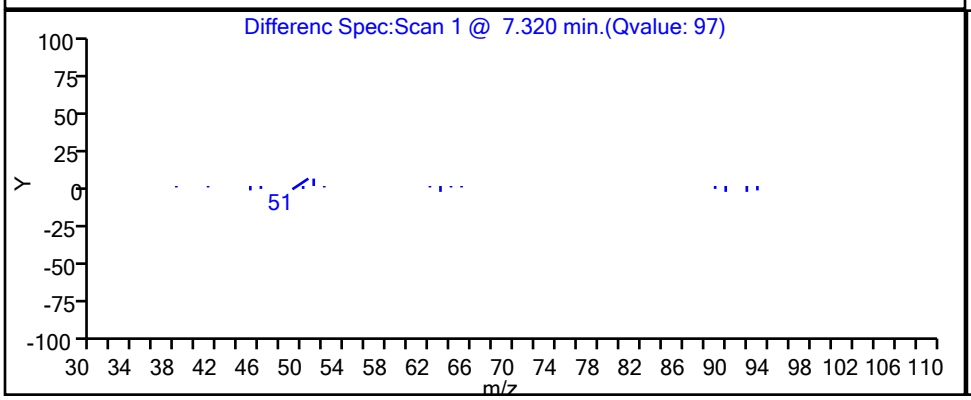


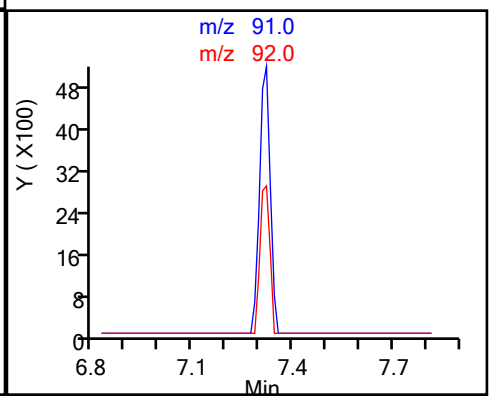












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-060221 Lab Sample ID: 240-150601-23

Matrix: Water Lab File ID: UXM37875.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:08

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.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-060221 Lab Sample ID: 240-150601-23

Matrix: Water Lab File ID: UXM37875.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:08

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.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-060221 Lab Sample ID: 240-150601-23

Matrix: Water Lab File ID: UXM37875.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:08

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.: 490456 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)	99		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-060221 Lab Sample ID: 240-150601-23

Matrix: Water Lab File ID: UXM37875.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:08

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.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-060221 Lab Sample ID: 240-150601-23

Matrix: Water Lab File ID: UXM37875.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:08

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.: 490456 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\20210614-110223.b\UXM37875.D
Lims ID: 240-150601-B-23
Client ID: MSA-SW43C-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 14:08:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-012
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 13:39:53 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 15:56:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	757607	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	616873	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	340034	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	206477	22.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.573	5.561	0.012	98	216707	20.0	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	822549	21.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	329614	22.8	
9 Dichlorodifluoromethane	85		1.707				ND	
10 Chloromethane	50		1.897				ND	
11 Vinyl chloride	62		2.015				ND	
13 Bromomethane	94		2.359				ND	7
14 Chloroethane	64		2.478				ND	
16 Trichlorofluoromethane	101		2.727				ND	
19 1,1-Dichloroethene	96		3.248				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
21 Acetone	58		3.284				ND	7
24 Carbon disulfide	76		3.450				ND	
28 Methylene Chloride	84		3.711				ND	
29 2-Methyl-2-propanol	59		3.794				ND	
31 Methyl tert-butyl ether	73		3.948				ND	
32 trans-1,2-Dichloroethene	96		3.960				ND	
35 Vinyl acetate	43		4.339				ND	
34 1,1-Dichloroethane	63		4.351				ND	
36 Isopropyl ether	87		4.363				ND	
38 Tert-butyl ethyl ether	59		4.683				ND	
40 2-Butanone (MEK)	72		4.826				ND	
41 2,2-Dichloropropane	77		4.849				ND	
39 cis-1,2-Dichloroethene	96		4.849				ND	
45 Chlorobromomethane	128		5.051				ND	
47 Chloroform	83		5.134				ND	
48 1,1,1-Trichloroethane	97		5.288				ND	
50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

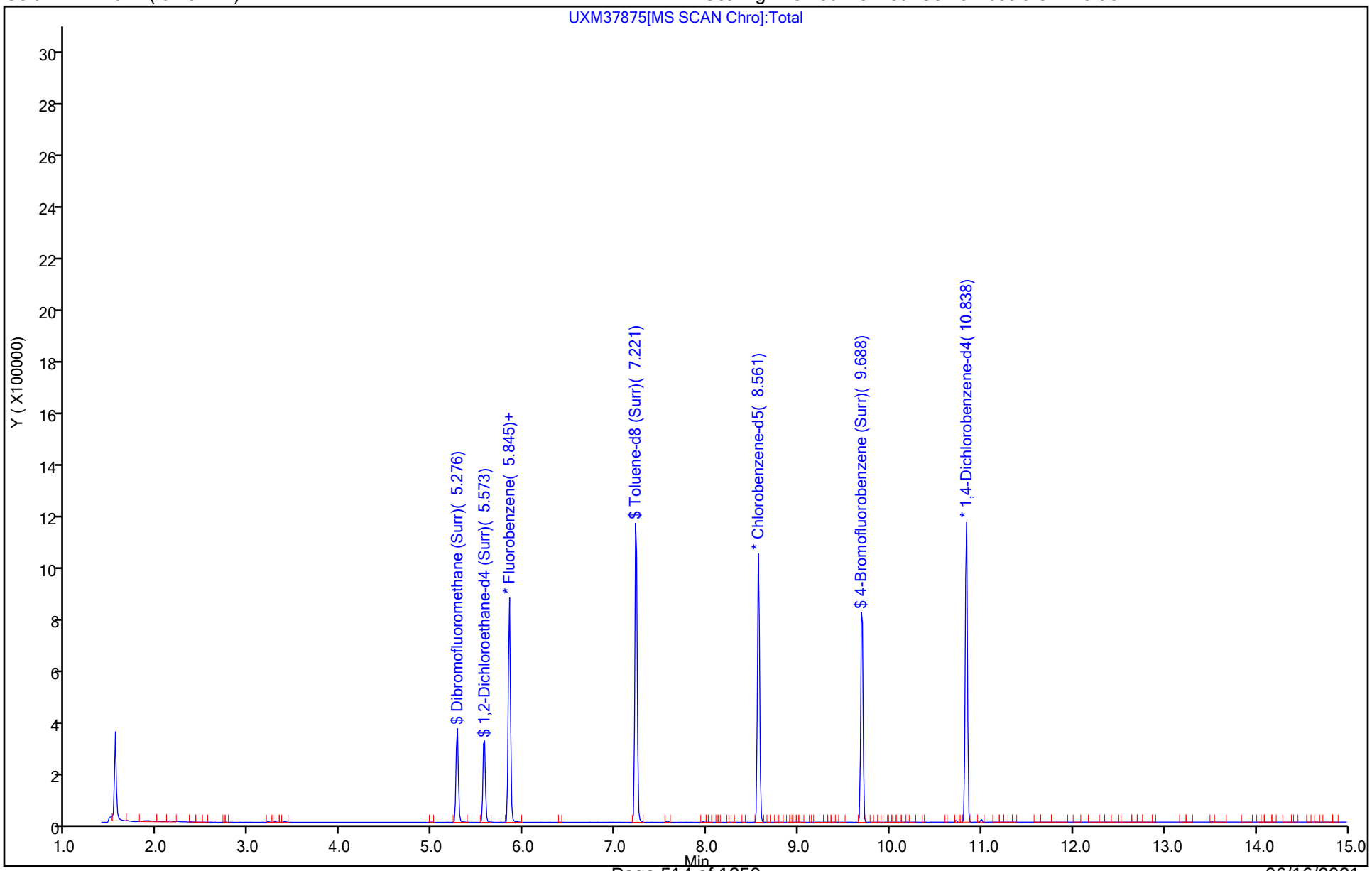
Report Date: 14-Jun-2021 15:56:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37875.D

Injection Date:	14-Jun-2021 14:08:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-23	Lab Sample ID:	240-150601-23	Worklist Smp#:	12
Client ID:	MSA-SW43C-060221				
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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37875.D
Lims ID: 240-150601-B-23
Client ID: MSA-SW43C-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 14:08:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-012
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 13:39:53 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 15:56:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.5	99.01
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.0	88.02
$ 6 Toluene-d8 (Surr)	22.7	21.9	96.44
$ 7 4-Bromofluorobenzene (Surr)	22.7	22.8	100.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-43D-060221 Lab Sample ID: 240-150601-24

Matrix: Water Lab File ID: UXM37876.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:46

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-43D-060221 Lab Sample ID: 240-150601-24

Matrix: Water Lab File ID: UXM37876.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:46

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-43D-060221 Lab Sample ID: 240-150601-24

Matrix: Water Lab File ID: UXM37876.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:46

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	98		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-43D-060221 Lab Sample ID: 240-150601-24

Matrix: Water Lab File ID: UXM37876.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:46

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-43D-060221 Lab Sample ID: 240-150601-24

Matrix: Water Lab File ID: UXM37876.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:46

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37876.D
Lims ID: 240-150601-B-24
Client ID: MSA-43D-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 14:32:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-013
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 13:39:53 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 15:57:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	786175	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	630038	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	351134	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	212285	22.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	222433	19.7	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	848984	22.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	341448	23.1	
9 Dichlorodifluoromethane	85		1.707				ND	
10 Chloromethane	50		1.897				ND	
11 Vinyl chloride	62		2.015				ND	
13 Bromomethane	94		2.359				ND	7
14 Chloroethane	64		2.478				ND	
16 Trichlorofluoromethane	101		2.727				ND	
19 1,1-Dichloroethene	96		3.248				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
21 Acetone	58		3.284				ND	
24 Carbon disulfide	76		3.450				ND	
28 Methylene Chloride	84		3.711				ND	
29 2-Methyl-2-propanol	59		3.794				ND	
31 Methyl tert-butyl ether	73		3.948				ND	
32 trans-1,2-Dichloroethene	96		3.960				ND	
35 Vinyl acetate	43		4.339				ND	
34 1,1-Dichloroethane	63		4.351				ND	
36 Isopropyl ether	87		4.363				ND	
38 Tert-butyl ethyl ether	59		4.683				ND	
40 2-Butanone (MEK)	72		4.826				ND	
41 2,2-Dichloropropane	77		4.849				ND	
39 cis-1,2-Dichloroethene	96		4.849				ND	
45 Chlorobromomethane	128		5.051				ND	
47 Chloroform	83		5.134				ND	
48 1,1,1-Trichloroethane	97		5.288				ND	
50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

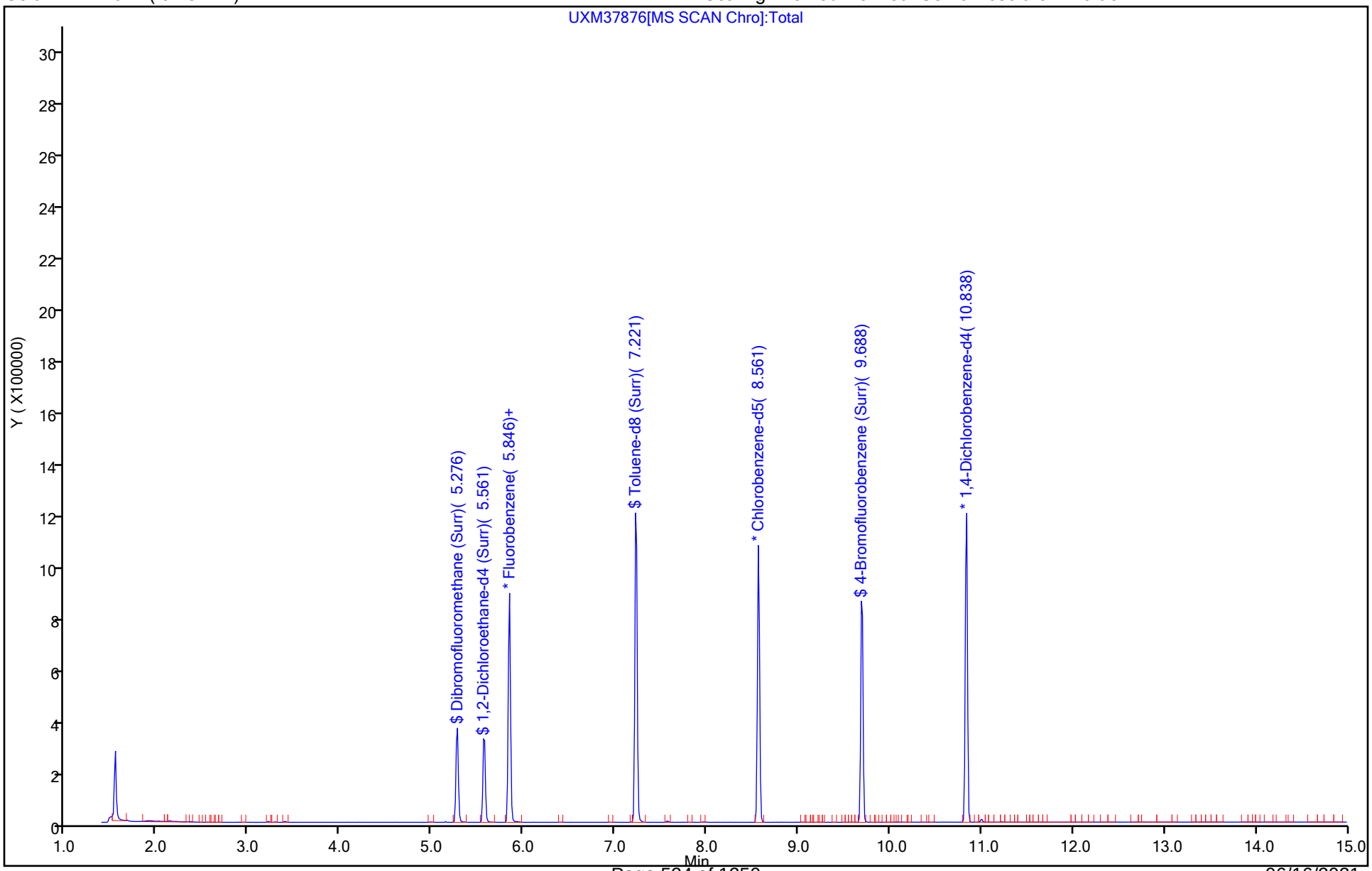
Report Date: 14-Jun-2021 15:57:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37876.D

Injection Date:	14-Jun-2021 14:32:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-24	Lab Sample ID:	240-150601-24	Worklist Smp#:	13
Client ID:	MSA-43D-060221				
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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37876.D
Lims ID: 240-150601-B-24
Client ID: MSA-43D-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 14:32:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-013
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 13:39:53 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 15:57:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.2	98.10
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.7	87.06
$ 6 Toluene-d8 (Surr)	22.7	22.1	97.46
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.1	101.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44A-060221 Lab Sample ID: 240-150601-25

Matrix: Water Lab File ID: UXM37877.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44A-060221 Lab Sample ID: 240-150601-25

Matrix: Water Lab File ID: UXM37877.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44A-060221 Lab Sample ID: 240-150601-25

Matrix: Water Lab File ID: UXM37877.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	101		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44A-060221 Lab Sample ID: 240-150601-25

Matrix: Water Lab File ID: UXM37877.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44A-060221 Lab Sample ID: 240-150601-25

Matrix: Water Lab File ID: UXM37877.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 14:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37877.D
Lims ID: 240-150601-C-25
Client ID: MSA-44A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 14:57:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-014
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 13:39:53 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 15:57:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	754417	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	622994	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	348330	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	209236	22.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	216498	20.0	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	817935	21.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	335934	23.0	
9 Dichlorodifluoromethane	85		1.707				ND	
10 Chloromethane	50		1.897				ND	
11 Vinyl chloride	62		2.015				ND	
13 Bromomethane	94		2.359				ND	7
14 Chloroethane	64		2.478				ND	
16 Trichlorofluoromethane	101		2.727				ND	
19 1,1-Dichloroethene	96		3.248				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
21 Acetone	58	3.284	3.284	0.000	97	1777	0.1484	
24 Carbon disulfide	76		3.450				ND	
28 Methylene Chloride	84		3.711				ND	
29 2-Methyl-2-propanol	59		3.794				ND	
31 Methyl tert-butyl ether	73		3.948				ND	
32 trans-1,2-Dichloroethene	96		3.960				ND	
35 Vinyl acetate	43		4.339				ND	
34 1,1-Dichloroethane	63		4.351				ND	
36 Isopropyl ether	87		4.363				ND	
38 Tert-butyl ethyl ether	59		4.683				ND	
40 2-Butanone (MEK)	72		4.826				ND	
41 2,2-Dichloropropane	77		4.849				ND	
39 cis-1,2-Dichloroethene	96		4.849				ND	
45 Chlorobromomethane	128		5.051				ND	
47 Chloroform	83		5.134				ND	
48 1,1,1-Trichloroethane	97		5.288				ND	
50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

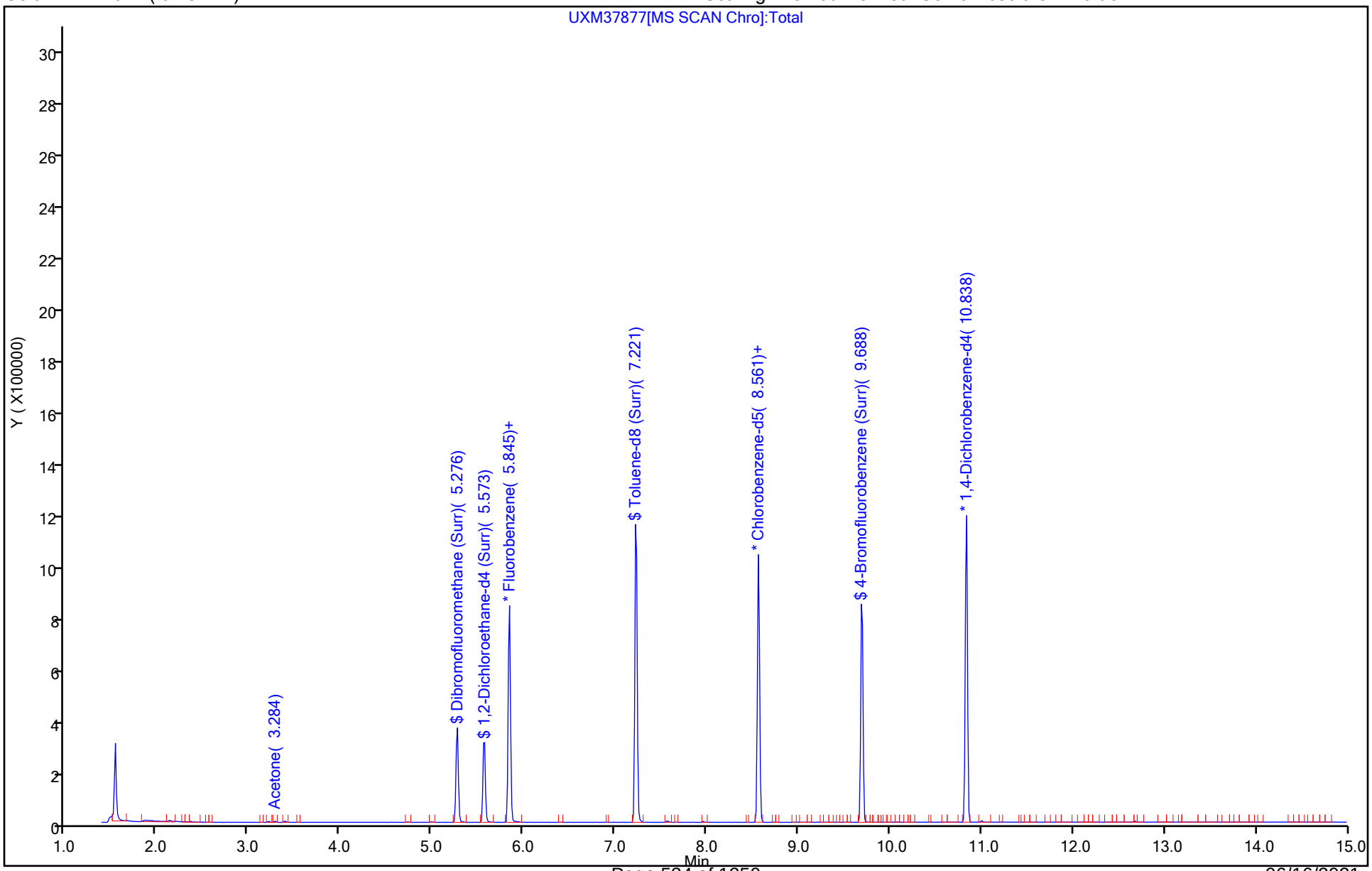
Report Date: 14-Jun-2021 15:57:48 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37877.D

Injection Date:	14-Jun-2021 14:57:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-C-25	Lab Sample ID:	240-150601-25	Worklist Smp#:	14
Client ID:	MSA-44A-060221				
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



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37877.D
Lims ID: 240-150601-C-25
Client ID: MSA-44A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 14:57:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-014
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 13:39:53 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 15:57:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.9	100.76
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.0	88.31
$ 6 Toluene-d8 (Surr)	22.7	21.5	94.95
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.0	101.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44B-060221 Lab Sample ID: 240-150601-26

Matrix: Water Lab File ID: UXM37878.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:22

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.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44B-060221 Lab Sample ID: 240-150601-26

Matrix: Water Lab File ID: UXM37878.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:22

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.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44B-060221 Lab Sample ID: 240-150601-26

Matrix: Water Lab File ID: UXM37878.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:22

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.: 490456 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)	101		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44B-060221 Lab Sample ID: 240-150601-26

Matrix: Water Lab File ID: UXM37878.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:22

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.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44B-060221 Lab Sample ID: 240-150601-26

Matrix: Water Lab File ID: UXM37878.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:22

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.: 490456 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\20210614-110223.b\UXM37878.D
Lims ID: 240-150601-B-26
Client ID: MSA-44B-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 15:22:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-015
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 14:29:31 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 16:30:55

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.846	5.846	0.000	99	731028	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	85	615043	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	343122	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	203286	22.9	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	209018	20.0	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	808285	21.6	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	333061	23.1	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.248				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
	21 Acetone	58		3.284				ND	
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.948				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.339				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

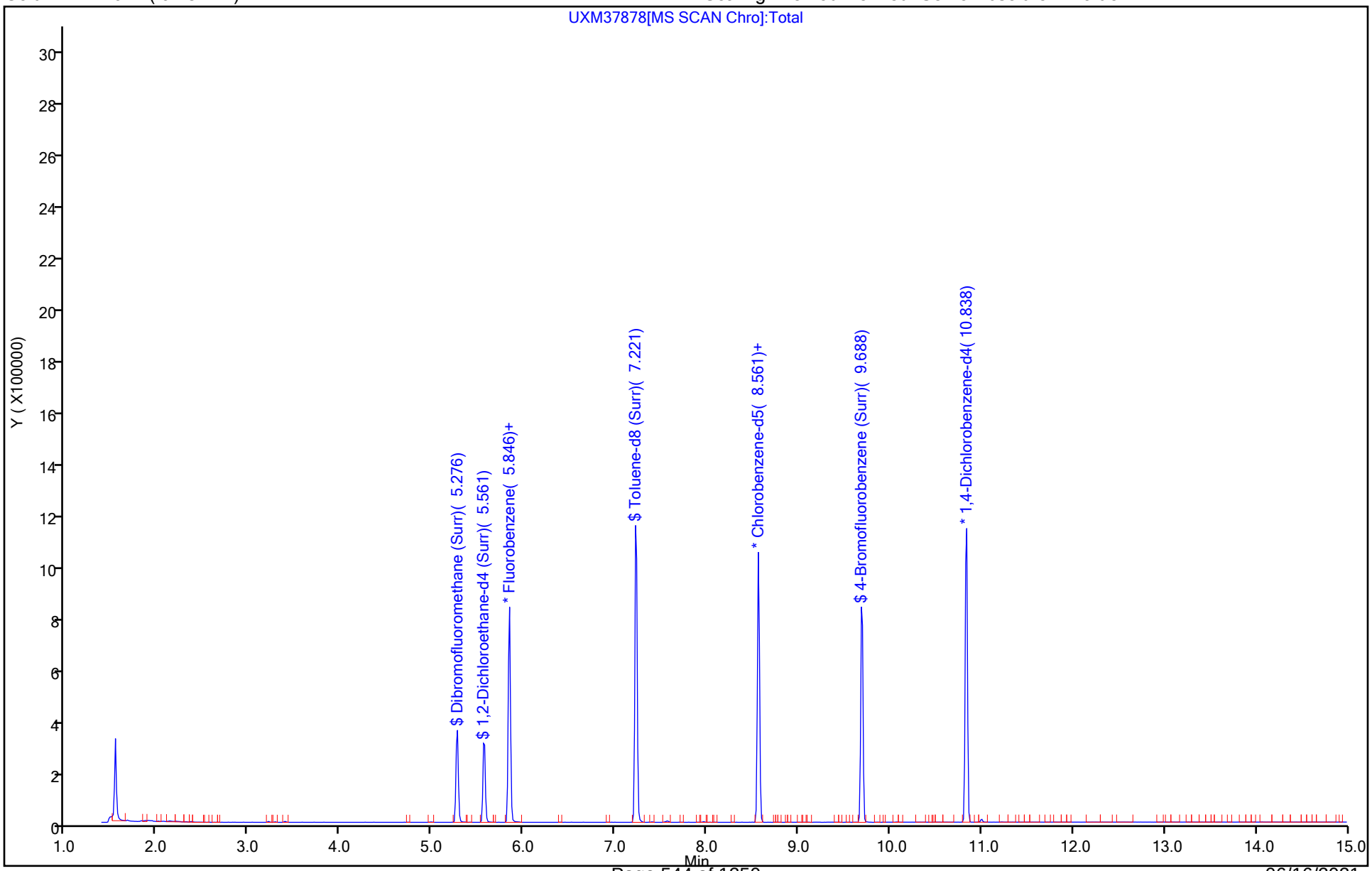
Report Date: 14-Jun-2021 16:30:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37878.D

Injection Date:	14-Jun-2021 15:22:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-26	Lab Sample ID:	240-150601-26	Worklist Smp#:	15
Client ID:	MSA-44B-060221				
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



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37878.D
Lims ID: 240-150601-B-26
Client ID: MSA-44B-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 15:22:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-015
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 14:29:31 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 16:30:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.9	101.02
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.0	87.98
$ 6 Toluene-d8 (Surr)	22.7	21.6	95.05
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.1	101.85

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44C-060221 Lab Sample ID: 240-150601-27

Matrix: Water Lab File ID: UXM37879.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:22

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44C-060221 Lab Sample ID: 240-150601-27

Matrix: Water Lab File ID: UXM37879.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:22

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44C-060221 Lab Sample ID: 240-150601-27

Matrix: Water Lab File ID: UXM37879.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:22

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44C-060221 Lab Sample ID: 240-150601-27

Matrix: Water Lab File ID: UXM37879.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:22

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44C-060221 Lab Sample ID: 240-150601-27

Matrix: Water Lab File ID: UXM37879.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:22

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 15:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37879.D
Lims ID: 240-150601-B-27
Client ID: MSA-44C-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 15:46:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-016
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 14:29:31 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 16:31:18

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.845	5.846	-0.001	99	726199	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	609799	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	341307	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	204443	23.2	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	208143	20.0	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	804197	21.6	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	338245	23.7	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.248				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
	21 Acetone	58		3.284				ND	
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.948				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.339				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

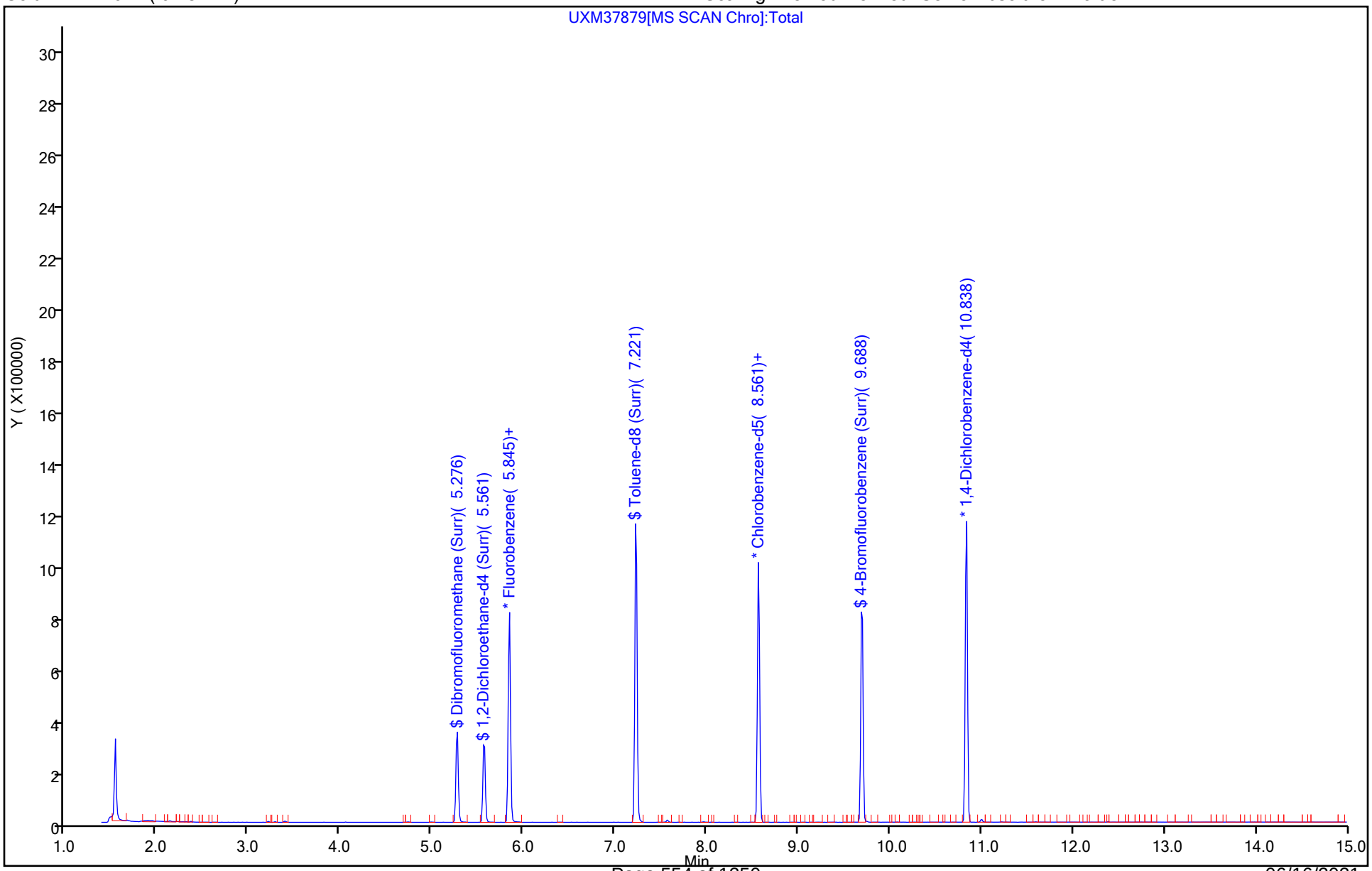
Report Date: 14-Jun-2021 16:31:18 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37879.D

Injection Date:	14-Jun-2021 15:46:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-27	Lab Sample ID:	240-150601-27	Worklist Smp#:	16
Client ID:	MSA-44C-060221				
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



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37879.D
Lims ID: 240-150601-B-27
Client ID: MSA-44C-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 15:46:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-016
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 14:29:31 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 16:31:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	23.2	102.27
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.0	88.20
$ 6 Toluene-d8 (Surr)	22.7	21.6	95.38
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.7	104.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44D-060221 Lab Sample ID: 240-150601-28

Matrix: Water Lab File ID: UXM37880.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:27

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44D-060221 Lab Sample ID: 240-150601-28

Matrix: Water Lab File ID: UXM37880.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:27

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44D-060221 Lab Sample ID: 240-150601-28

Matrix: Water Lab File ID: UXM37880.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:27

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	101		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44D-060221 Lab Sample ID: 240-150601-28

Matrix: Water Lab File ID: UXM37880.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:27

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-44D-060221 Lab Sample ID: 240-150601-28

Matrix: Water Lab File ID: UXM37880.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:27

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37880.D
Lims ID: 240-150601-B-28
Client ID: MSA-44D-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 16:11:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-017
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 14:29:31 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 16:31:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	745471	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	624272	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	350971	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	207822	23.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.573	5.561	0.012	98	213457	20.0	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	815370	21.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	335524	22.9	
9 Dichlorodifluoromethane	85		1.707				ND	
10 Chloromethane	50		1.897				ND	
11 Vinyl chloride	62		2.015				ND	
13 Bromomethane	94		2.359				ND	7
14 Chloroethane	64		2.478				ND	
16 Trichlorofluoromethane	101		2.727				ND	
19 1,1-Dichloroethene	96		3.248				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
21 Acetone	58		3.284				ND	
24 Carbon disulfide	76		3.450				ND	
28 Methylene Chloride	84		3.711				ND	
29 2-Methyl-2-propanol	59		3.794				ND	
31 Methyl tert-butyl ether	73		3.948				ND	
32 trans-1,2-Dichloroethene	96		3.960				ND	
35 Vinyl acetate	43		4.339				ND	
34 1,1-Dichloroethane	63		4.351				ND	
36 Isopropyl ether	87		4.363				ND	
38 Tert-butyl ethyl ether	59		4.683				ND	
40 2-Butanone (MEK)	72		4.826				ND	
41 2,2-Dichloropropane	77		4.849				ND	
39 cis-1,2-Dichloroethene	96		4.849				ND	
45 Chlorobromomethane	128		5.051				ND	
47 Chloroform	83		5.134				ND	
48 1,1,1-Trichloroethane	97		5.288				ND	
50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

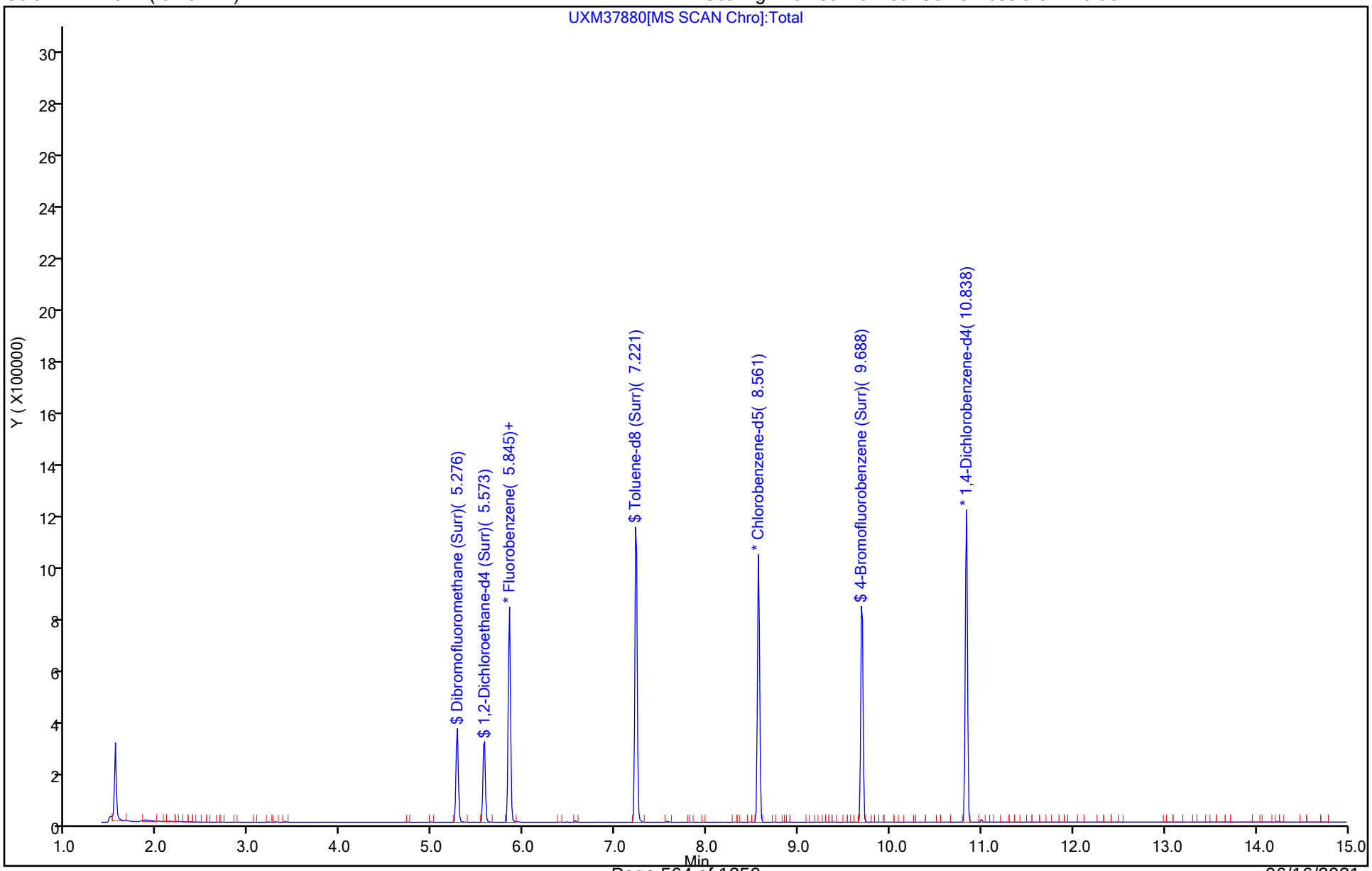
Report Date: 14-Jun-2021 16:31:48 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37880.D

Injection Date:	14-Jun-2021 16:11:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-28	Lab Sample ID:	240-150601-28	Worklist Smp#:	17
Client ID:	MSA-44D-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
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\20210614-110223.b\UXM37880.D
Lims ID: 240-150601-B-28
Client ID: MSA-44D-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 16:11:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-017
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 14:29:31 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 16:31:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	23.0	101.28
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.0	88.11
$ 6 Toluene-d8 (Surr)	22.7	21.4	94.46
$ 7 4-Bromofluorobenzene (Surr)	22.7	22.9	101.08

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-060221 Lab Sample ID: 240-150601-29

Matrix: Water Lab File ID: UXM37881.D

Analysis Method: 8260C Date Collected: 06/02/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-060221 Lab Sample ID: 240-150601-29

Matrix: Water Lab File ID: UXM37881.D

Analysis Method: 8260C Date Collected: 06/02/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-060221 Lab Sample ID: 240-150601-29

Matrix: Water Lab File ID: UXM37881.D

Analysis Method: 8260C Date Collected: 06/02/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-060221 Lab Sample ID: 240-150601-29

Matrix: Water Lab File ID: UXM37881.D

Analysis Method: 8260C Date Collected: 06/02/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-060221 Lab Sample ID: 240-150601-29

Matrix: Water Lab File ID: UXM37881.D

Analysis Method: 8260C Date Collected: 06/02/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 16:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37881.D
Lims ID: 240-150601-B-29
Client ID: TB-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 16:35:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-018
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 04:21:58 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:08:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	748655	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	620694	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	348843	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	205749	22.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	218381	20.4	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	811868	21.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	92	338789	23.3	
9 Dichlorodifluoromethane	85		1.707				ND	
10 Chloromethane	50		1.897				ND	
11 Vinyl chloride	62		2.015				ND	
13 Bromomethane	94		2.359				ND	7
14 Chloroethane	64		2.478				ND	
16 Trichlorofluoromethane	101		2.727				ND	
19 1,1-Dichloroethene	96		3.248				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
21 Acetone	58		3.284				ND	
24 Carbon disulfide	76		3.450				ND	
28 Methylene Chloride	84		3.711				ND	
29 2-Methyl-2-propanol	59		3.794				ND	
31 Methyl tert-butyl ether	73		3.948				ND	
32 trans-1,2-Dichloroethene	96		3.960				ND	
35 Vinyl acetate	43		4.339				ND	
34 1,1-Dichloroethane	63		4.351				ND	
36 Isopropyl ether	87		4.363				ND	
38 Tert-butyl ethyl ether	59		4.683				ND	
40 2-Butanone (MEK)	72		4.826				ND	
41 2,2-Dichloropropane	77		4.849				ND	
39 cis-1,2-Dichloroethene	96		4.849				ND	
45 Chlorobromomethane	128		5.051				ND	
47 Chloroform	83		5.134				ND	
48 1,1,1-Trichloroethane	97		5.288				ND	
50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

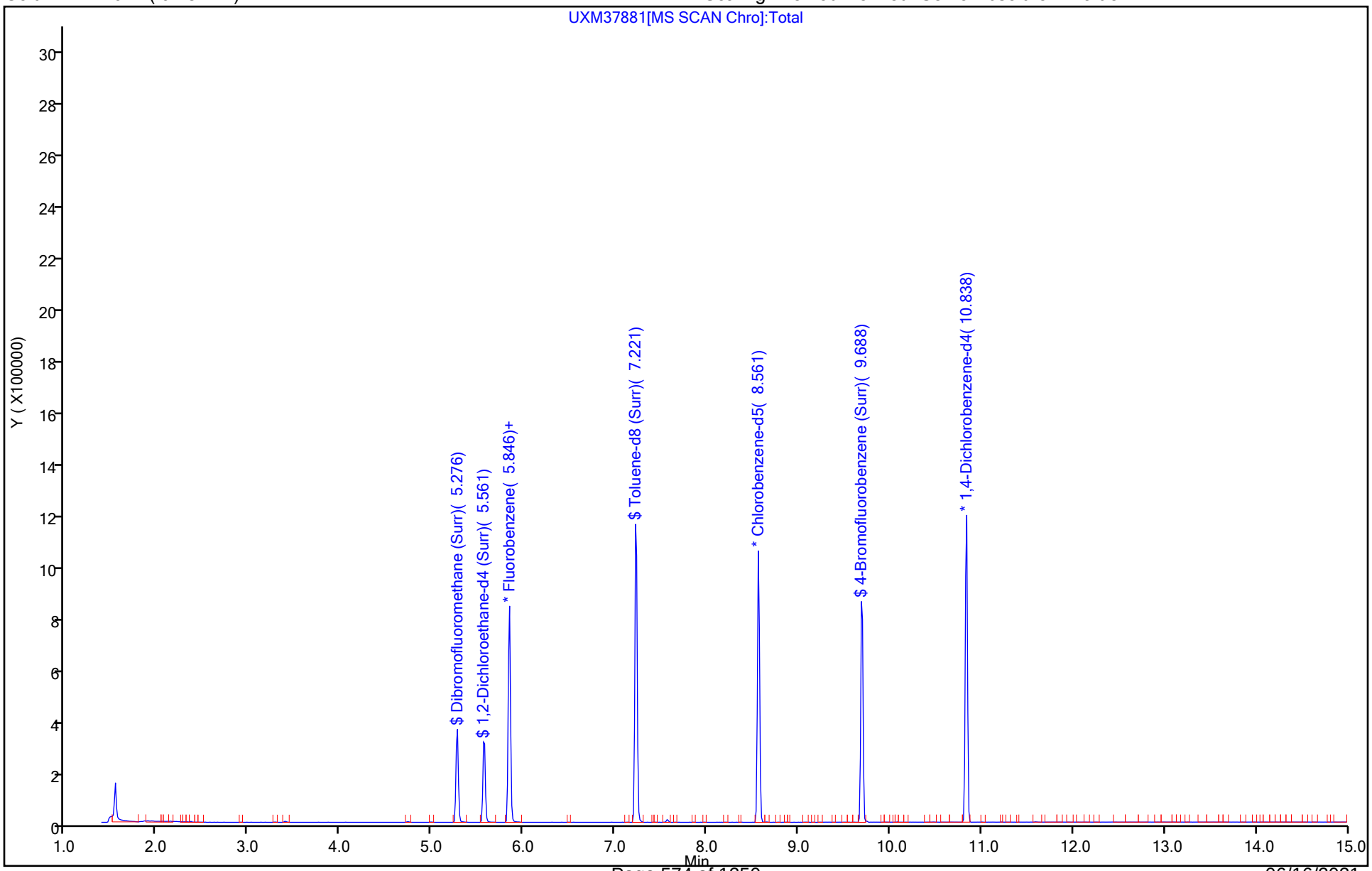
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Report Date: 15-Jun-2021 08:08:36 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37881.D				
Injection Date:	14-Jun-2021 16:35:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-29	Lab Sample ID:	240-150601-29	Worklist Smp#:	18
Client ID:	TB-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
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\20210614-110223.b\UXM37881.D
Lims ID: 240-150601-B-29
Client ID: TB-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 16:35:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-018
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 04:21:58 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:08:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.6	99.84
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.4	89.76
$ 6 Toluene-d8 (Surr)	22.7	21.5	94.60
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.3	102.65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-060221 Lab Sample ID: 240-150601-30

Matrix: Water Lab File ID: UXM37882.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:02

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-060221 Lab Sample ID: 240-150601-30

Matrix: Water Lab File ID: UXM37882.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:02

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-060221 Lab Sample ID: 240-150601-30

Matrix: Water Lab File ID: UXM37882.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:02

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	88		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-060221 Lab Sample ID: 240-150601-30

Matrix: Water Lab File ID: UXM37882.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:02

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-060221 Lab Sample ID: 240-150601-30

Matrix: Water Lab File ID: UXM37882.D

Analysis Method: 8260C Date Collected: 06/02/2021 11:02

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37882.D
Lims ID: 240-150601-B-30
Client ID: MSA-SW46A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 17:00:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-019
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 04:21:58 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:09:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	764771	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	626016	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	344122	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	210153	22.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	217839	19.9	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	829369	21.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	91	337763	23.0	
9 Dichlorodifluoromethane	85		1.707				ND	
10 Chloromethane	50		1.897				ND	
11 Vinyl chloride	62		2.015				ND	
13 Bromomethane	94		2.359				ND	7
14 Chloroethane	64		2.478				ND	
16 Trichlorofluoromethane	101		2.727				ND	
19 1,1-Dichloroethene	96		3.248				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
21 Acetone	58		3.284				ND	7
24 Carbon disulfide	76		3.450				ND	
28 Methylene Chloride	84		3.711				ND	
29 2-Methyl-2-propanol	59		3.794				ND	
31 Methyl tert-butyl ether	73		3.948				ND	
32 trans-1,2-Dichloroethene	96		3.960				ND	
35 Vinyl acetate	43		4.339				ND	
34 1,1-Dichloroethane	63		4.351				ND	
36 Isopropyl ether	87		4.363				ND	
38 Tert-butyl ethyl ether	59		4.683				ND	
40 2-Butanone (MEK)	72		4.826				ND	
41 2,2-Dichloropropane	77		4.849				ND	
39 cis-1,2-Dichloroethene	96		4.849				ND	
45 Chlorobromomethane	128		5.051				ND	
47 Chloroform	83		5.134				ND	
48 1,1,1-Trichloroethane	97		5.288				ND	
50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

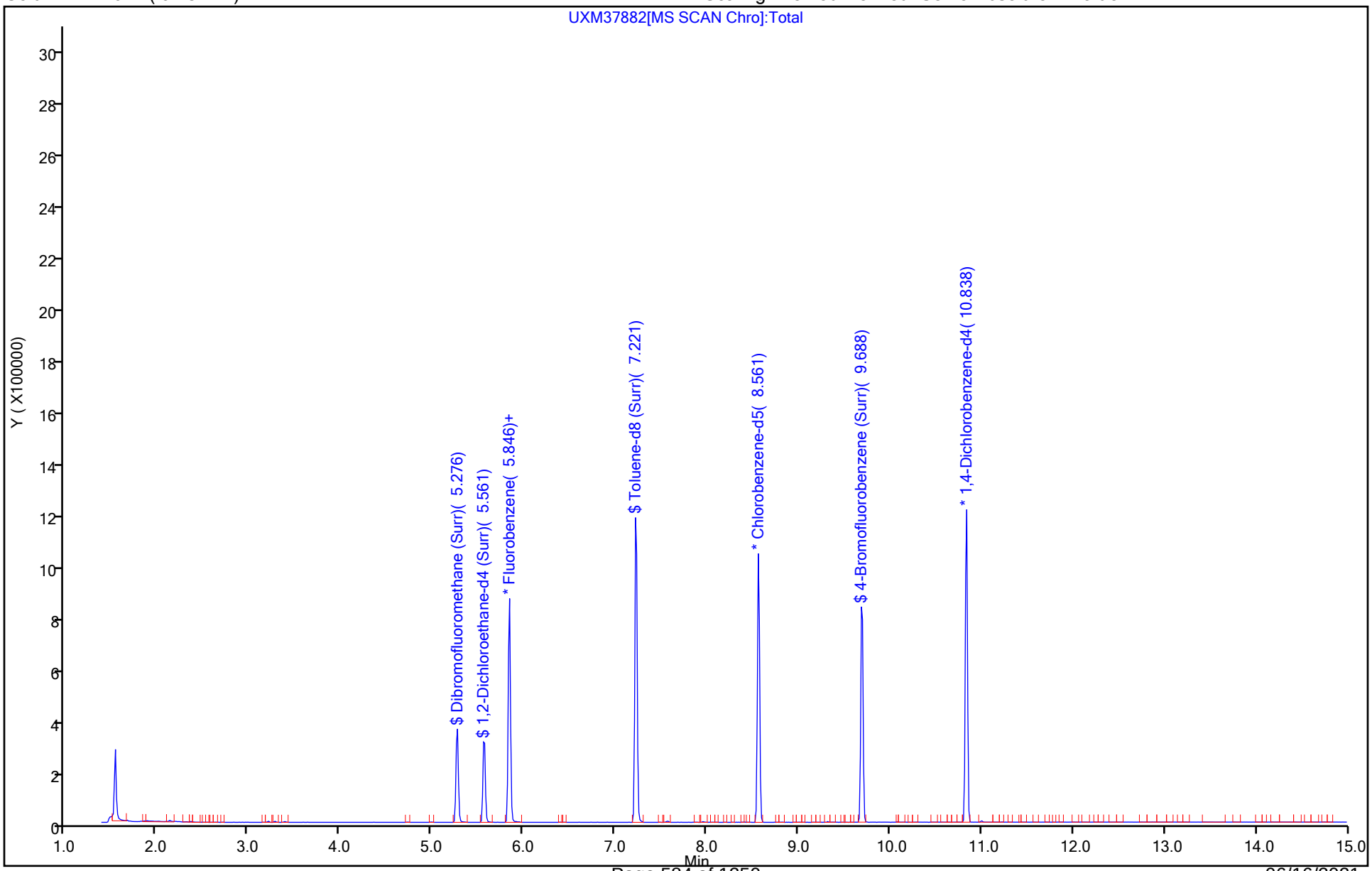
Report Date: 15-Jun-2021 08:09:07 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37882.D

Injection Date:	14-Jun-2021 17:00:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-30	Lab Sample ID:	240-150601-30	Worklist Smp#:	19
Client ID:	MSA-SW46A-060221				
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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37882.D
Lims ID: 240-150601-B-30
Client ID: MSA-SW46A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 17:00:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-019
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 04:21:58 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:09:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.6	99.83
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.9	87.65
$ 6 Toluene-d8 (Surr)	22.7	21.7	95.82
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.0	101.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-060221 Lab Sample ID: 240-150601-31

Matrix: Water Lab File ID: UXM37883.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-060221 Lab Sample ID: 240-150601-31

Matrix: Water Lab File ID: UXM37883.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-060221 Lab Sample ID: 240-150601-31

Matrix: Water Lab File ID: UXM37883.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-060221 Lab Sample ID: 240-150601-31

Matrix: Water Lab File ID: UXM37883.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-060221 Lab Sample ID: 240-150601-31

Matrix: Water Lab File ID: UXM37883.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:43

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37883.D
Lims ID: 240-150601-B-31
Client ID: MSA-SW47A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 17:25:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-020
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 04:21:58 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:09:44

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.846	5.846	0.000	99	754048	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	622194	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	352715	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	208600	22.8	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	218045	20.2	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	817234	21.5	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	342264	23.5	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.248				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
	21 Acetone	58		3.284				ND	7
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.948				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.339				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91	7.292	7.292	0.000	97	5899	0.1324	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

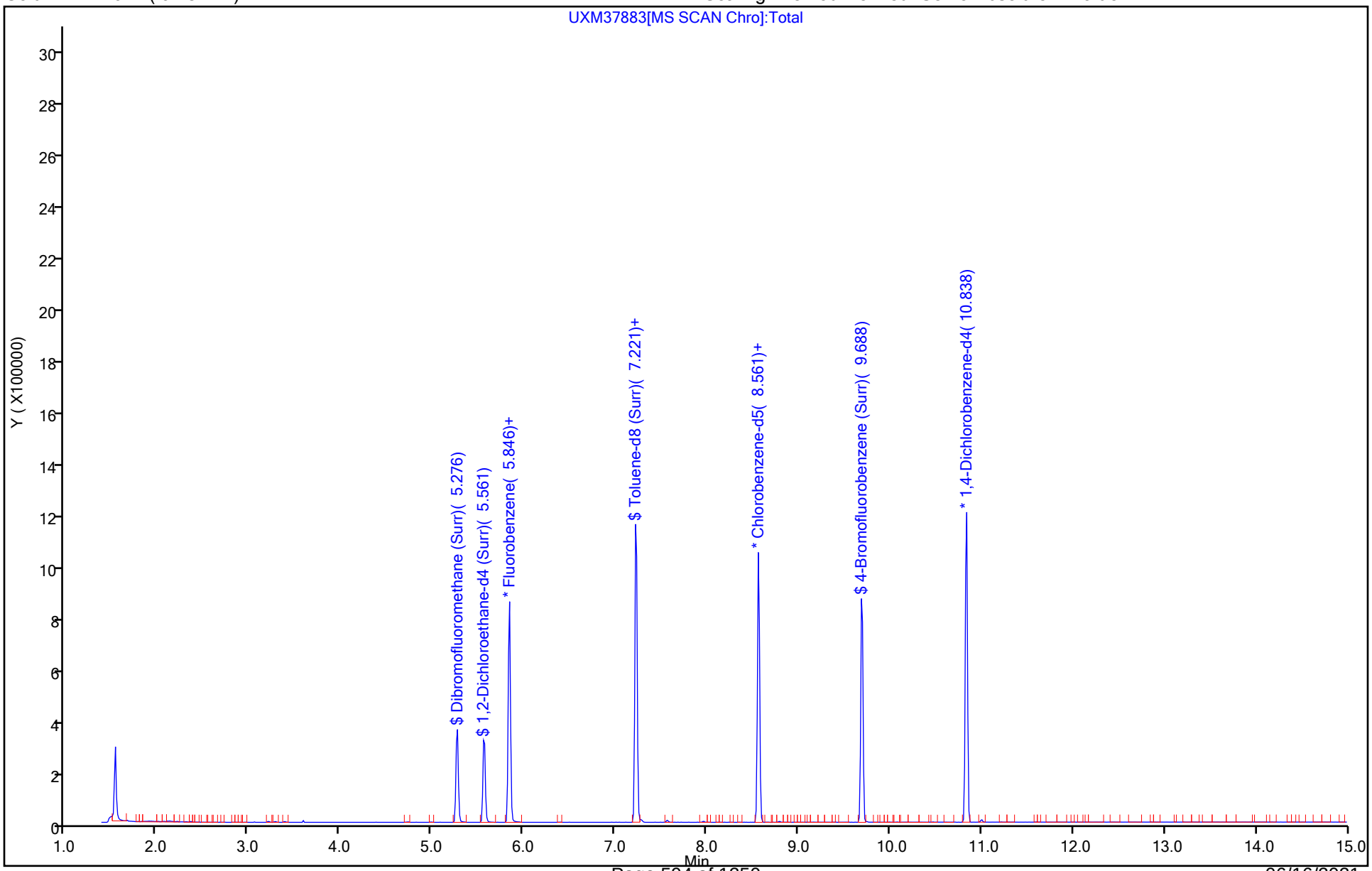
Report Date: 15-Jun-2021 08:09:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37883.D

Injection Date:	14-Jun-2021 17:25:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-31	Lab Sample ID:	240-150601-31	Worklist Smp#:	20
Client ID:	MSA-SW47A-060221				
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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37883.D
Lims ID: 240-150601-B-31
Client ID: MSA-SW47A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 17:25:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-020
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 04:21:58 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:09:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.8	100.50
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.2	88.98
$ 6 Toluene-d8 (Surr)	22.7	21.5	95.00
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.5	103.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-060221 Lab Sample ID: 240-150601-32

Matrix: Water Lab File ID: UXM37884.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:16

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-060221 Lab Sample ID: 240-150601-32

Matrix: Water Lab File ID: UXM37884.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:16

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-060221 Lab Sample ID: 240-150601-32

Matrix: Water Lab File ID: UXM37884.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:16

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-060221 Lab Sample ID: 240-150601-32

Matrix: Water Lab File ID: UXM37884.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:16

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-060221 Lab Sample ID: 240-150601-32

Matrix: Water Lab File ID: UXM37884.D

Analysis Method: 8260C Date Collected: 06/02/2021 10:16

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 17:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37884.D
Lims ID: 240-150601-B-32
Client ID: MSA-SW48A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 17:49:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-021
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:10:26

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.845	5.846	-0.001	99	723741	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	85	606451	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	344820	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	203301	23.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	206721	19.9	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	803177	21.7	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	92	333274	23.4	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	U
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.248				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
	21 Acetone	58	3.284	3.284	0.000	98	1712	0.1597	
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.948				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.339				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

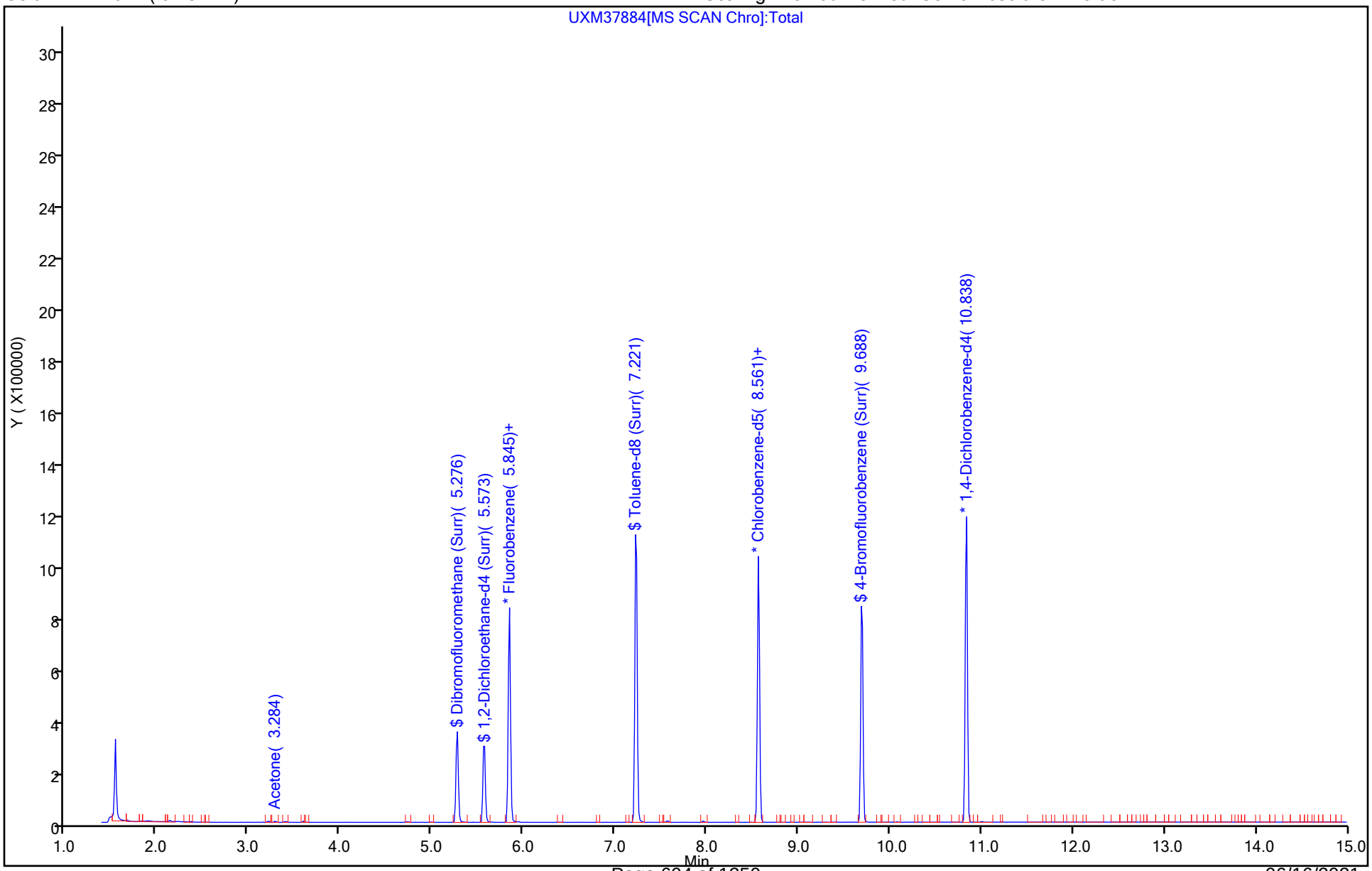
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Report Date: 15-Jun-2021 08:10:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37884.D				
Injection Date:	14-Jun-2021 17:49:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-32	Lab Sample ID:	240-150601-32	Worklist Smp#:	21
Client ID:	MSA-SW48A-060221				
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
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37884.D				
Lims ID:	240-150601-B-32				
Client ID:	MSA-SW48A-060221				
Sample Type:	Client				
Inject. Date:	14-Jun-2021 17:49:30	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110223-021				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	15-Jun-2021 08:10:26	Calib Date:	23-Apr-2021 18:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1606				

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:10:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	23.1	102.05
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.9	87.89
$ 6 Toluene-d8 (Surr)	22.7	21.7	95.79
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.4	103.35

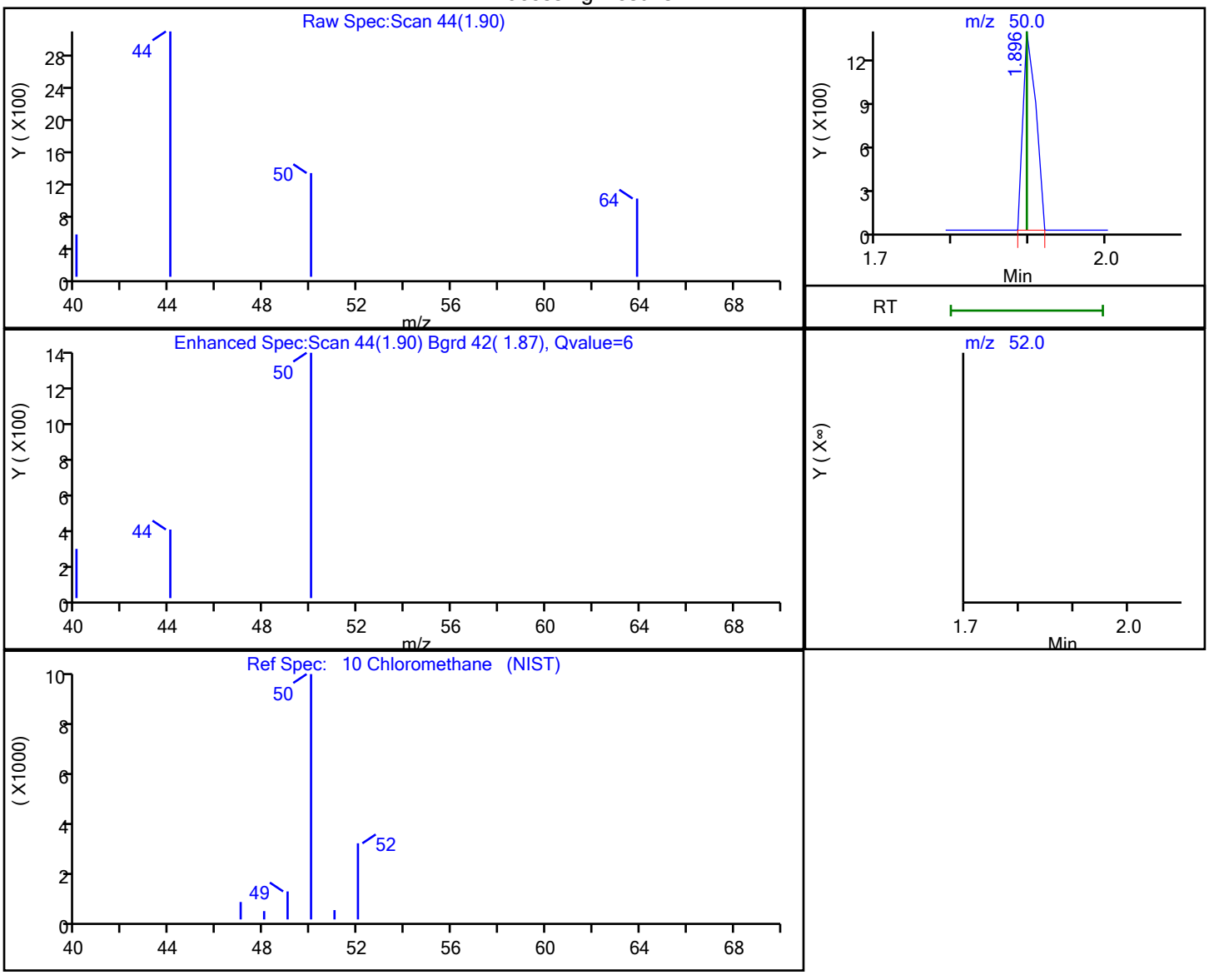
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37884.D				
Injection Date:	14-Jun-2021 17:49:30	Instrument ID:	A3UX16		
Lims ID:	240-150601-B-32	Lab Sample ID:	240-150601-32		
Client ID:	MSA-SW48A-060221				
Operator ID:	001765	ALS Bottle#:	21	Worklist Smp#:	21
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		

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.90	50.00	1524	0.113481
1.90	52.00	0	

Reviewer: bosworthh, 15-Jun-2021 08:10:06

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-060221 Lab Sample ID: 240-150601-33

Matrix: Water Lab File ID: UXM37885.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:52

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:14

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.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-060221 Lab Sample ID: 240-150601-33

Matrix: Water Lab File ID: UXM37885.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:52

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:14

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.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-060221 Lab Sample ID: 240-150601-33

Matrix: Water Lab File ID: UXM37885.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:52

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:14

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.: 490456 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)	101		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-060221 Lab Sample ID: 240-150601-33

Matrix: Water Lab File ID: UXM37885.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:52

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:14

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.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-060221 Lab Sample ID: 240-150601-33

Matrix: Water Lab File ID: UXM37885.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:52

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:14

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.: 490456 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\20210614-110223.b\UXM37885.D
Lims ID: 240-150601-B-33
Client ID: MSA-SW49A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 18:14:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-022
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:10:53

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.845	5.846	-0.001	99	771906	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	639996	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	353413	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	214892	22.9	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.573	5.561	0.012	97	223868	20.2	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	849095	21.8	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	345524	23.0	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.248				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
	21 Acetone	58		3.284				ND	7
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.948				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.339				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

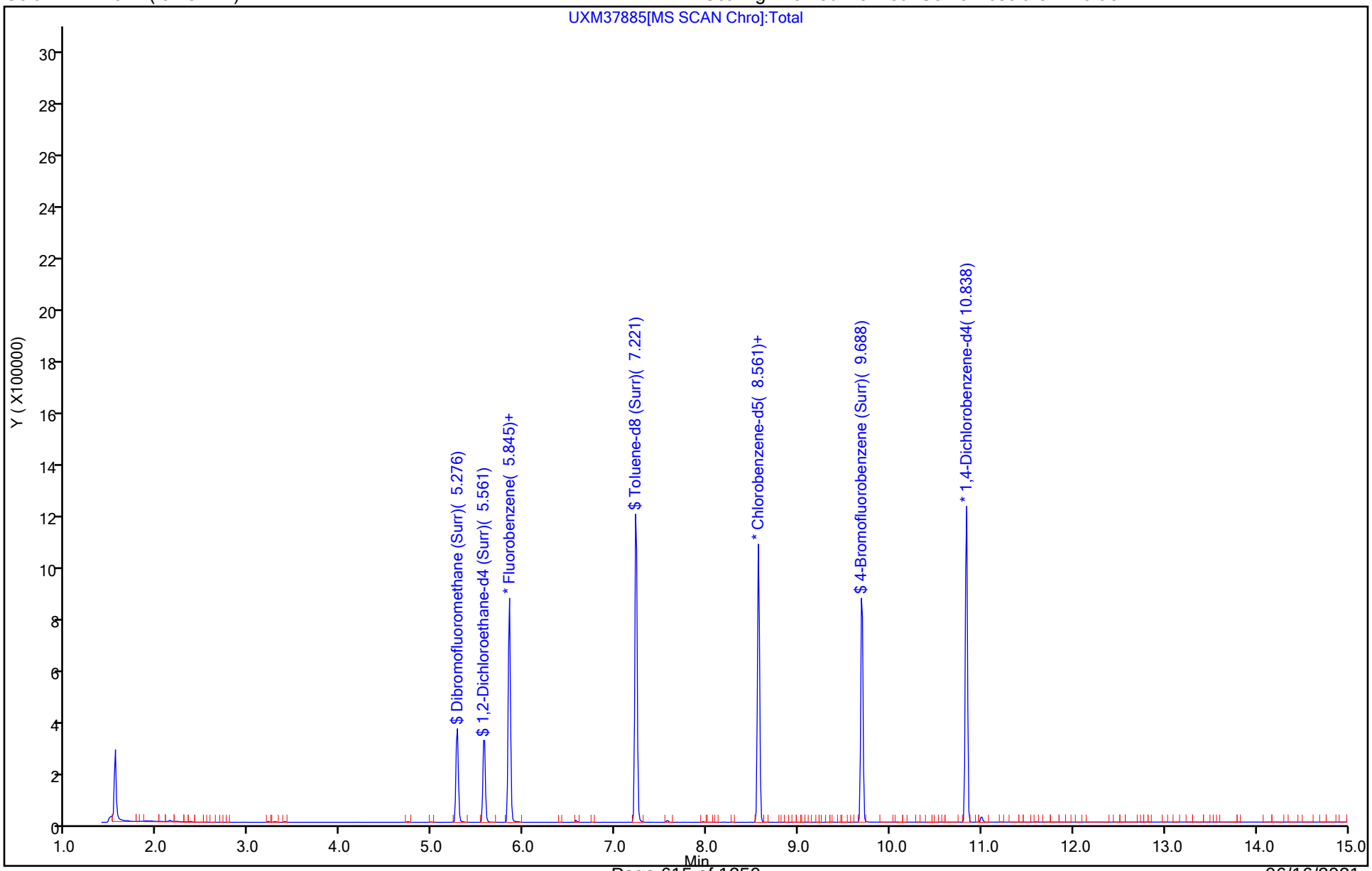
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Report Date: 15-Jun-2021 08:10:53 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37885.D				
Injection Date:	14-Jun-2021 18:14:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-33	Lab Sample ID:	240-150601-33	Worklist Smp#:	22
Client ID:	MSA-SW49A-060221				
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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37885.D
Lims ID: 240-150601-B-33
Client ID: MSA-SW49A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 18:14:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-022
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:10:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.9	101.14
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.2	89.24
$ 6 Toluene-d8 (Surr)	22.7	21.8	95.95
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.0	101.54

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01A-060221 Lab Sample ID: 240-150601-34

Matrix: Water Lab File ID: UXM37886.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01A-060221 Lab Sample ID: 240-150601-34

Matrix: Water Lab File ID: UXM37886.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01A-060221 Lab Sample ID: 240-150601-34

Matrix: Water Lab File ID: UXM37886.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01A-060221 Lab Sample ID: 240-150601-34

Matrix: Water Lab File ID: UXM37886.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01A-060221 Lab Sample ID: 240-150601-34

Matrix: Water Lab File ID: UXM37886.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:17

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 18:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37886.D
Lims ID: 240-150601-B-34
Client ID: EL-SW01A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 18:38:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-023
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:11:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	737408	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	85	615867	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	349371	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	207290	23.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	212765	20.1	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	812721	21.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	340807	23.6	
9 Dichlorodifluoromethane	85		1.707				ND	
10 Chloromethane	50		1.897				ND	
11 Vinyl chloride	62		2.015				ND	
13 Bromomethane	94		2.359				ND	7
14 Chloroethane	64		2.478				ND	
16 Trichlorofluoromethane	101		2.727				ND	
19 1,1-Dichloroethene	96		3.248				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
21 Acetone	58		3.284				ND	
24 Carbon disulfide	76		3.450				ND	
28 Methylene Chloride	84		3.711				ND	
29 2-Methyl-2-propanol	59		3.794				ND	
31 Methyl tert-butyl ether	73		3.948				ND	
32 trans-1,2-Dichloroethene	96		3.960				ND	
35 Vinyl acetate	43		4.339				ND	
34 1,1-Dichloroethane	63		4.351				ND	
36 Isopropyl ether	87		4.363				ND	
38 Tert-butyl ethyl ether	59		4.683				ND	
40 2-Butanone (MEK)	72		4.826				ND	
41 2,2-Dichloropropane	77		4.849				ND	
39 cis-1,2-Dichloroethene	96		4.849				ND	
45 Chlorobromomethane	128		5.051				ND	
47 Chloroform	83		5.134				ND	
48 1,1,1-Trichloroethane	97		5.288				ND	
50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91	7.292	7.292	0.000	97	4993	0.1132	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	7
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

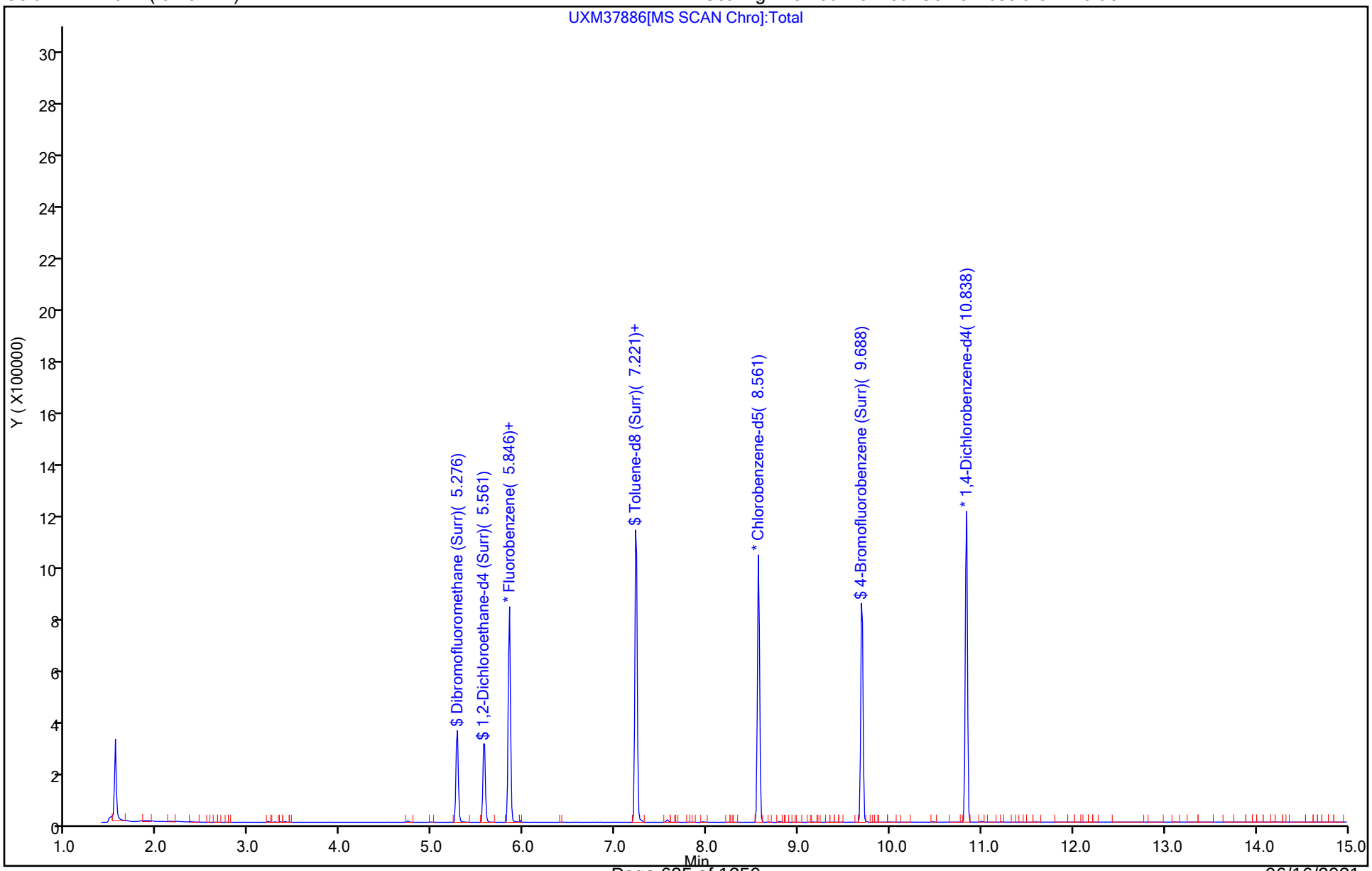
Report Date: 15-Jun-2021 08:11:16 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37886.D

Injection Date:	14-Jun-2021 18:38:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-34	Lab Sample ID:	240-150601-34	Worklist Smp#:	23
Client ID:	EL-SW01A-060221				
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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37886.D
Lims ID: 240-150601-B-34
Client ID: EL-SW01A-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 18:38:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-023
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:11:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	23.2	102.12
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.1	88.79
$ 6 Toluene-d8 (Surr)	22.7	21.6	95.44
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.6	104.07

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01B-060221 Lab Sample ID: 240-150601-35

Matrix: Water Lab File ID: UXM37887.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:53

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:03

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01B-060221 Lab Sample ID: 240-150601-35

Matrix: Water Lab File ID: UXM37887.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:53

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:03

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01B-060221 Lab Sample ID: 240-150601-35

Matrix: Water Lab File ID: UXM37887.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:53

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:03

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01B-060221 Lab Sample ID: 240-150601-35

Matrix: Water Lab File ID: UXM37887.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:53

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:03

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01B-060221 Lab Sample ID: 240-150601-35

Matrix: Water Lab File ID: UXM37887.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:53

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:03

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37887.D
Lims ID: 240-150601-B-35
Client ID: EL-SW01B-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 19:03:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-024
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:11:53

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.846	5.846	0.000	99	760795	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	630540	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	357884	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	208790	22.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	214445	19.7	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	818714	21.3	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	91	342170	23.1	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	7
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.248				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
	21 Acetone	58		3.284				ND	
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.948				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.339				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

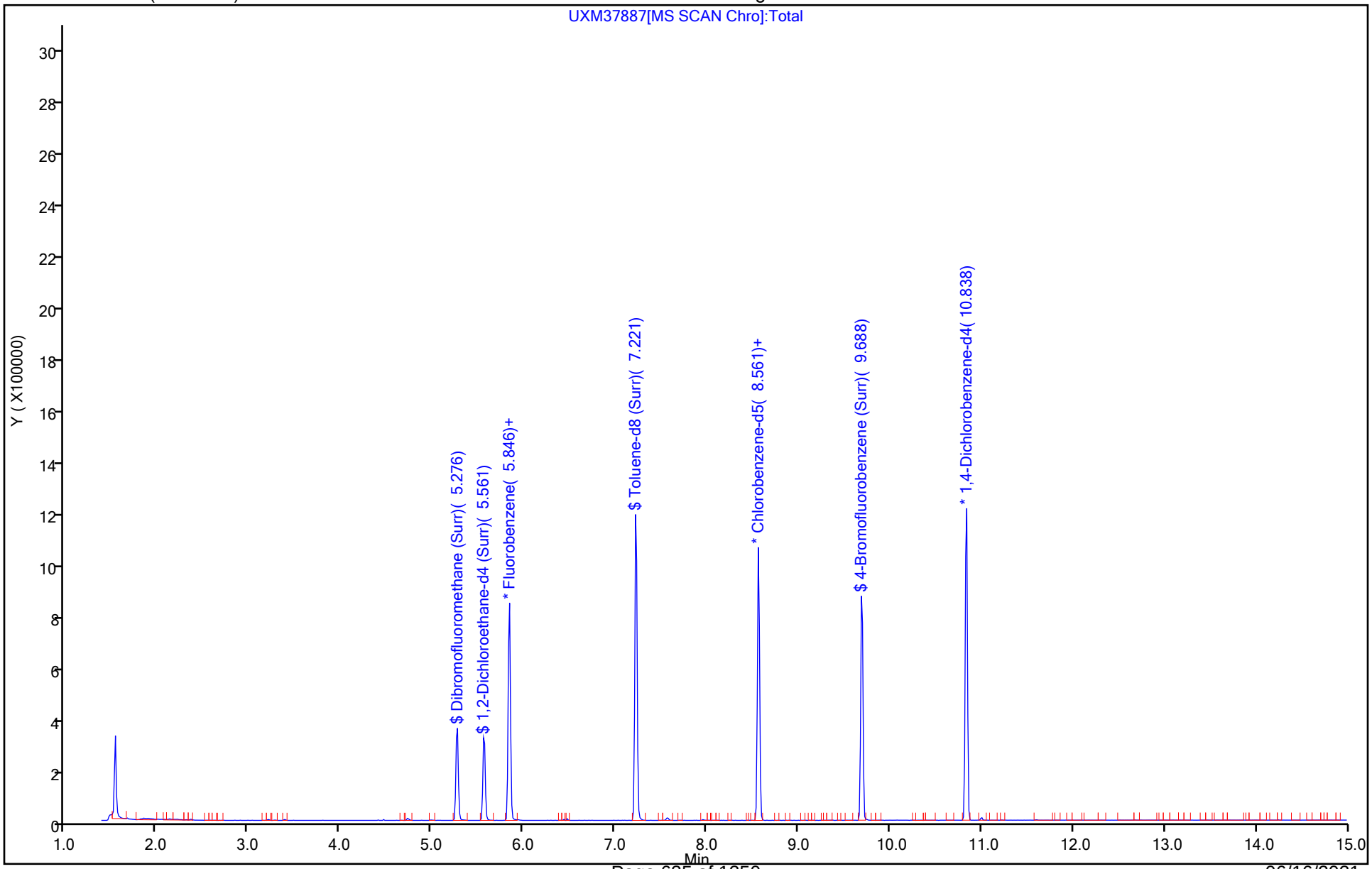
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Report Date: 15-Jun-2021 08:11:54 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37887.D				
Injection Date:	14-Jun-2021 19:03:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-35	Lab Sample ID:	240-150601-35	Worklist Smp#:	24
Client ID:	EL-SW01B-060221				
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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37887.D
Lims ID: 240-150601-B-35
Client ID: EL-SW01B-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 19:03:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-024
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:11:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.6	99.70
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.7	86.74
$ 6 Toluene-d8 (Surr)	22.7	21.3	93.91
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.1	102.06

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01C-060221 Lab Sample ID: 240-150601-36

Matrix: Water Lab File ID: UXM37888.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:57

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:27

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.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01C-060221 Lab Sample ID: 240-150601-36

Matrix: Water Lab File ID: UXM37888.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:57

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:27

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.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01C-060221 Lab Sample ID: 240-150601-36

Matrix: Water Lab File ID: UXM37888.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:57

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:27

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.: 490456 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)	99		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01C-060221 Lab Sample ID: 240-150601-36

Matrix: Water Lab File ID: UXM37888.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:57

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:27

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.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01C-060221 Lab Sample ID: 240-150601-36

Matrix: Water Lab File ID: UXM37888.D

Analysis Method: 8260C Date Collected: 06/02/2021 08:57

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:27

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.: 490456 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\20210614-110223.b\UXM37888.D
Lims ID: 240-150601-B-36
Client ID: EL-SW01C-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 19:27:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-025
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:12:20

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.846	5.846	0.000	99	779039	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	634139	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	362383	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	212548	22.5	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	222378	19.9	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	841096	21.8	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	89	345389	23.2	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.248				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
	21 Acetone	58		3.284				ND	
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.948				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.339				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91		7.292				ND	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

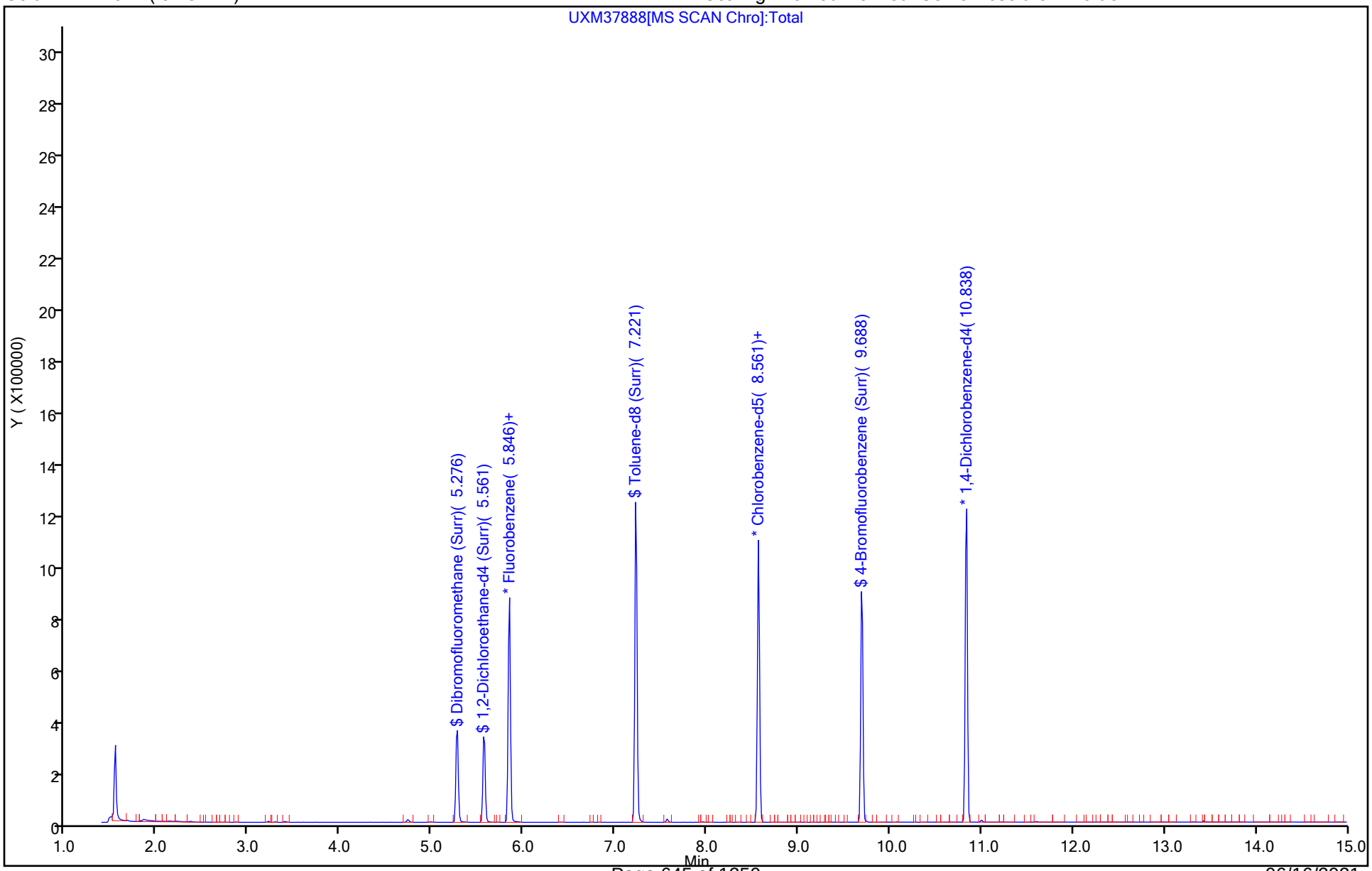
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Report Date: 15-Jun-2021 08:12:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37888.D				
Injection Date:	14-Jun-2021 19:27:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-36	Lab Sample ID:	240-150601-36	Worklist Smp#:	25
Client ID:	EL-SW01C-060221				
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



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37888.D				
Lims ID:	240-150601-B-36				
Client ID:	EL-SW01C-060221				
Sample Type:	Client				
Inject. Date:	14-Jun-2021 19:27:30	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110223-025				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	15-Jun-2021 08:10:26	Calib Date:	23-Apr-2021 18:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1606				

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:12:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.5	99.12
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.9	87.84
$ 6 Toluene-d8 (Surr)	22.7	21.8	95.93
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.2	102.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01D-060221 Lab Sample ID: 240-150601-37

Matrix: Water Lab File ID: UXM37889.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01D-060221 Lab Sample ID: 240-150601-37

Matrix: Water Lab File ID: UXM37889.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01D-060221 Lab Sample ID: 240-150601-37

Matrix: Water Lab File ID: UXM37889.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01D-060221 Lab Sample ID: 240-150601-37

Matrix: Water Lab File ID: UXM37889.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: EL-SW01D-060221 Lab Sample ID: 240-150601-37

Matrix: Water Lab File ID: UXM37889.D

Analysis Method: 8260C Date Collected: 06/02/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 19:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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\20210614-110223.b\UXM37889.D
Lims ID: 240-150601-B-37
Client ID: EL-SW01D-060221
Sample Type: Client
Inject. Date: 14-Jun-2021 19:52:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-026
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:12:54

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.845	5.846	-0.001	99	727721	20.0	
*	2 Chlorobenzene-d5	117	8.561	8.561	0.000	85	609694	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	348617	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	205957	23.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	210911	20.2	
$	6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	806952	21.7	
$	7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	91	338549	23.7	
	9 Dichlorodifluoromethane	85		1.707				ND	
	10 Chloromethane	50		1.897				ND	
	11 Vinyl chloride	62		2.015				ND	
	13 Bromomethane	94		2.359				ND	7
	14 Chloroethane	64		2.478				ND	
	16 Trichlorofluoromethane	101		2.727				ND	
	19 1,1-Dichloroethene	96		3.248				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248				ND	
	21 Acetone	58		3.284				ND	7
	24 Carbon disulfide	76		3.450				ND	
	28 Methylene Chloride	84		3.711				ND	
	29 2-Methyl-2-propanol	59		3.794				ND	
	31 Methyl tert-butyl ether	73		3.948				ND	
	32 trans-1,2-Dichloroethene	96		3.960				ND	
	35 Vinyl acetate	43		4.339				ND	
	34 1,1-Dichloroethane	63		4.351				ND	
	36 Isopropyl ether	87		4.363				ND	
	38 Tert-butyl ethyl ether	59		4.683				ND	
	40 2-Butanone (MEK)	72		4.826				ND	
	41 2,2-Dichloropropane	77		4.849				ND	
	39 cis-1,2-Dichloroethene	96		4.849				ND	
	45 Chlorobromomethane	128		5.051				ND	
	47 Chloroform	83		5.134				ND	
	48 1,1,1-Trichloroethane	97		5.288				ND	
	50 1,1-Dichloropropene	75		5.419				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.419				ND	
54 Benzene	78		5.596				ND	
53 1,2-Dichloroethane	62		5.632				ND	
55 Tert-amyl methyl ether	73		5.679				ND	
58 Trichloroethene	130		6.154				ND	
61 1,2-Dichloropropane	63		6.379				ND	
63 Dibromomethane	93		6.462				ND	
65 Dichlorobromomethane	83		6.604				ND	
67 2-Chloroethyl vinyl ether	63		6.830				ND	
68 cis-1,3-Dichloropropene	75		6.984				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	
70 Toluene	91	7.292	7.292	0.000	92	4663	0.1068	
71 trans-1,3-Dichloropropene	75		7.482				ND	
75 Tetrachloroethene	164		7.755				ND	
74 1,3-Dichloropropane	76		7.826				ND	
76 2-Hexanone	43		7.850				ND	
78 Chlorodibromomethane	129		8.016				ND	
80 Ethylene Dibromide	107		8.134				ND	
82 Chlorobenzene	112		8.597				ND	
83 1,1,1,2-Tetrachloroethane	131		8.668				ND	
84 Ethylbenzene	106		8.680				ND	
85 m-Xylene & p-Xylene	106		8.798				ND	
86 o-Xylene	106		9.166				ND	
87 Styrene	104		9.190				ND	
88 Bromoform	173		9.367				ND	
89 Isopropylbenzene	105		9.522				ND	
92 1,1,2,2-Tetrachloroethane	83		9.818				ND	
93 Bromobenzene	156		9.842				ND	
95 1,2,3-Trichloropropane	110		9.877				ND	
96 N-Propylbenzene	120		9.925				ND	
97 2-Chlorotoluene	126		10.020				ND	
100 4-Chlorotoluene	126		10.138				ND	
102 tert-Butylbenzene	119		10.411				ND	
104 1,2,4-Trimethylbenzene	105		10.470				ND	
105 sec-Butylbenzene	105		10.636				ND	
106 1,3-Dichlorobenzene	146		10.755				ND	
107 4-Isopropyltoluene	119		10.779				ND	
108 1,4-Dichlorobenzene	146		10.862				ND	
109 1,2,3-Trimethylbenzene	105		10.885				ND	
111 n-Butylbenzene	91		11.194				ND	
112 1,2-Dichlorobenzene	146		11.217				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000				ND	
115 1,2,4-Trichlorobenzene	180		12.830				ND	
116 Hexachlorobutadiene	225		12.972				ND	
117 Naphthalene	128		13.115				ND	
118 1,2,3-Trichlorobenzene	180		13.364				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.897				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

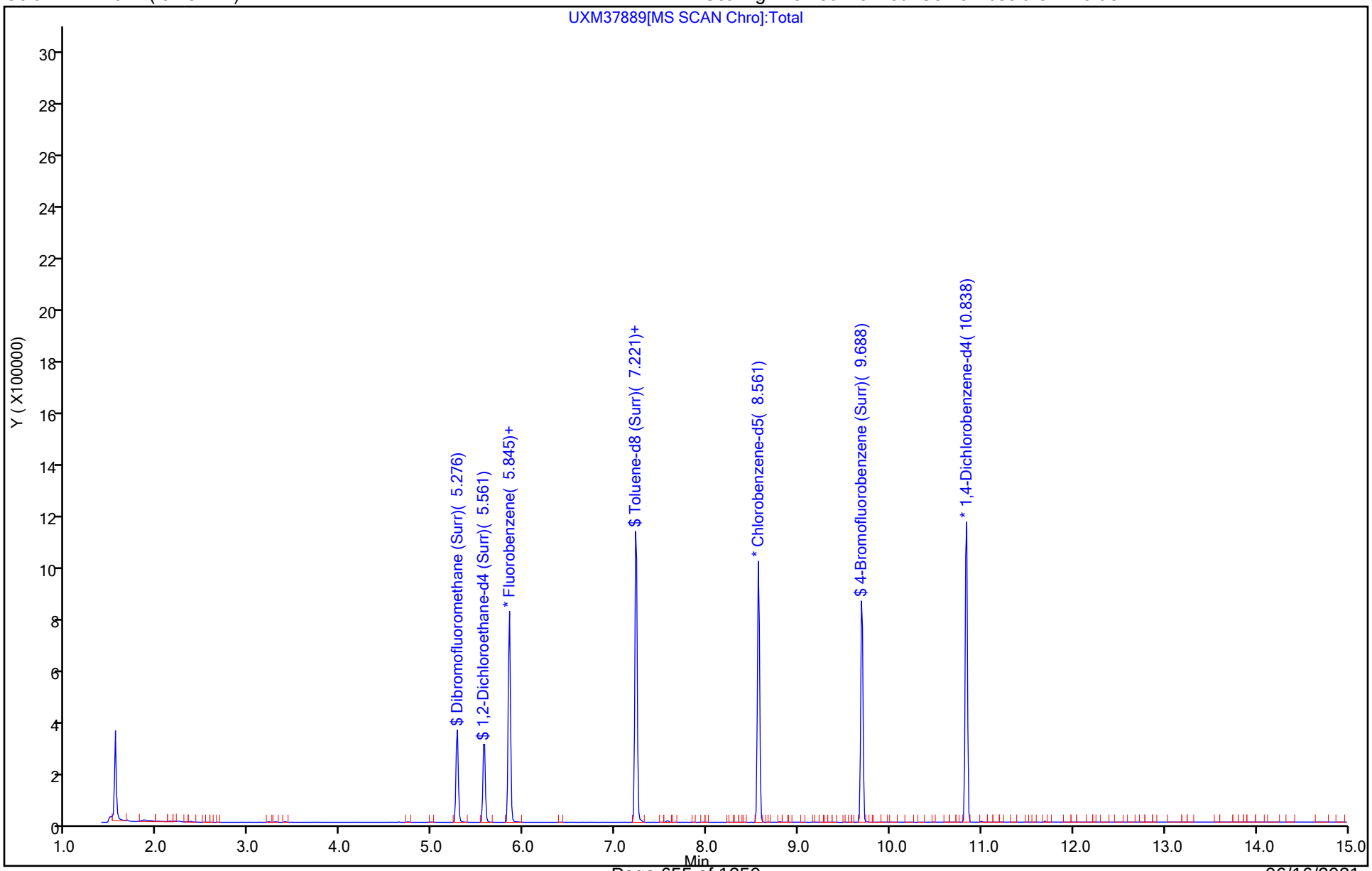
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Report Date: 15-Jun-2021 08:12:54 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37889.D				
Injection Date:	14-Jun-2021 19:52:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150601-B-37	Lab Sample ID:	240-150601-37	Worklist Smp#:	26
Client ID:	EL-SW01D-060221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
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\20210614-110223.b\UXM37889.D				
Lims ID:	240-150601-B-37				
Client ID:	EL-SW01D-060221				
Sample Type:	Client				
Inject. Date:	14-Jun-2021 19:52:30	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110223-026				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	15-Jun-2021 08:10:26	Calib Date:	23-Apr-2021 18:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1606				

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:12:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	23.3	102.82
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.2	89.18
$ 6 Toluene-d8 (Surr)	22.7	21.7	95.72
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.7	104.43

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-482539/16	UXM36566.D
Level 2	STD8260 240-482539/15	UXM36565.D
Level 3	STD8260 240-482539/14	UXM36564.D
Level 4	STD8260 240-482539/13	UXM36563.D
Level 5	ICIS 240-482539/12	UXM36562.D
Level 6	STD8260 240-482539/11	UXM36561.D
Level 7	STD8260 240-482539/10	UXM36560.D
Level 8	STD8260 240-482539/9	UXM36559.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	0.4112 0.3130	0.4098 0.3278	0.3873 0.3078	0.3617	0.3586	Ave		0.3597			0.1000	11.4		20.0			
Chloromethane	+++++ 0.3273	0.4460 0.3163	0.4080 +++++	0.3736	0.3555	Ave		0.3711			0.1000	13.3		20.0			
Vinyl chloride	0.4141 0.3358	0.3988 0.3285	0.4090 0.3163	0.3805	0.3633	Ave		0.3683			0.1000	10.4		20.0			
Butadiene	0.4479 0.3103	0.4146 0.3094	0.3841 0.3012	0.3523	0.3419	Ave		0.3577				15.0		20.0			
Bromomethane	0.3445 +++++	0.3259 +++++	0.2408 +++++	0.2170	0.1995	Lin1	0.0941	0.2025			0.0500	16.8			0.9960		0.9900
Chloroethane	0.2037 0.2002	0.2257 0.1981	0.2163 0.1902	0.2109	0.2082	Ave		0.2067			0.0500	5.4		20.0			
Dichlorofluoromethane	0.5338 0.4335	0.5310 0.4218	0.5037 0.3981	0.4716	0.4631	Ave		0.4696				10.7		20.0			
Trichlorofluoromethane	0.3957 0.3750	0.4243 0.3815	0.4356 0.3611	0.4158	0.4125	Ave		0.4002			0.1000	6.5		20.0			
Ethyl ether	0.1680 0.1816	0.1727 0.1739	0.1920 0.1676	0.1890	0.1833	Ave		0.1785				5.2		20.0			
Acrolein	0.0111 0.0106	0.0117 0.0101	0.0118 0.0103	0.0114	0.0105	Ave		0.0109				6.0		20.0			
1,1-Dichloroethene	0.2622 0.2097	0.2239 0.2015	0.2492 0.1895	0.2248	0.2166	Ave		0.2222			0.1000	10.8		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1731 0.1782	0.1708 0.1661	0.2003 0.1560	0.1827	0.1573	Ave		0.1731			0.0500	8.3		20.0			
Acetone	+++++ 0.0191	0.0375 0.0174	0.0232 0.0178	0.0208	0.0197	Lin1	0.0445	0.0178			0.0100	7.9			0.9980		0.9900

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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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								
Iodomethane	+++++ 0.2867	0.3440 0.2800	0.3099 0.2468	0.2954	0.3014	Ave		0.2949				10.1		20.0			
Carbon disulfide	0.7923 0.6792	0.8088 0.6522	0.8125 0.6150	0.7439	0.7185	Ave		0.7278			0.1000	10.3		20.0			
Methyl acetate	+++++ 0.1632	0.1801 0.1543	0.1729 0.1603	0.1697	0.1592	Ave		0.1657			0.1000	5.4		20.0			
3-Chloro-1-propene	+++++ 0.3623	0.4503 0.3538	0.4352 0.3354	0.3931	0.3845	Ave		0.3878				10.9		20.0			
Methylene Chloride	0.3237 0.2408	0.2862 0.2319	0.2878 0.2210	0.2622	0.2528	Ave		0.2633			0.1000	13.0		20.0			
tert-Butyl alcohol	0.0197 0.0230	0.0225 0.0205	0.0228 0.0223	0.0235	0.0213	Ave		0.0219				6.0		20.0			
Acrylonitrile	0.0946 0.0895	0.0948 0.0841	0.0950 0.0863	0.0944	0.0881	Ave		0.0908				4.8		20.0			
Methyl tert-butyl ether	0.4972 0.6632	0.5237 0.6387	0.6572 0.6561	0.6561	0.6358	Ave		0.6160			0.1000	10.7		20.0			
trans-1,2-Dichloroethene	0.2984 0.2518	0.2730 0.2453	0.2966 0.2380	0.2677	0.2605	Ave		0.2664			0.1000	8.4		20.0			
Hexane	0.3567 0.3790	0.3477 0.3565	0.3649 0.3563	0.3511	0.2974	Ave		0.3512				6.8		20.0			
Vinyl acetate	+++++ 0.3077	0.1577 0.3081	0.2417 0.3105	0.2776	0.2906	Lin1	-0.197	0.3100				8.0			0.9990		0.9900
1,1-Dichloroethane	0.5315 0.4353	0.5168 0.4183	0.5194 0.4056	0.4667	0.4564	Ave		0.4687			0.2000	10.4		20.0			
2-Butanone	+++++ 0.0265	0.0161 0.0248	0.0226 0.0265	0.0240	0.0243	Ave		0.0236			0.0100	15.1		20.0			
2,2-Dichloropropane	0.4216 0.4006	0.4175 0.3893	0.4454 0.3790	0.4225	0.4124	Ave		0.4110				5.1		20.0			
cis-1,2-Dichloroethene	0.3408 0.2761	0.3344 0.2656	0.3138 0.2533	0.2951	0.2871	Ave		0.2958			0.1000	10.7		20.0			
Bromochloromethane	0.1408 0.1212	0.1523 0.1157	0.1414 0.1115	0.1332	0.1286	Ave		0.1306				10.7		20.0			
Tetrahydrofuran	0.0731 0.0637	0.0785 0.0598	0.0691 0.0637	0.0694	0.0606	Ave		0.0672				9.7		20.0			
Chloroform	0.5152 0.4185	0.5271 0.4042	0.5029 0.3892	0.4597	0.4414	Ave		0.4573			0.2000	11.5		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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								
1,1,1-Trichloroethane	0.4334 0.3702	0.4165 0.3593	0.4324 0.3523	0.3989	0.3902	Ave		0.3941			0.1000	8.1		20.0			
Cyclohexane	0.4467 0.4416	0.4262 0.4172	0.4964 0.4058	0.4533	0.3959	Ave		0.4354			0.1000	7.3		20.0			
1,1-Dichloropropene	0.3039 0.3577	0.3055 0.3455	0.3655 0.3352	0.3556	0.3506	Ave		0.3399				6.9		20.0			
Carbon tetrachloride	0.3040 0.3227	0.3180 0.3134	0.3581 0.3023	0.3408	0.3284	Ave		0.3235			0.1000	5.8		20.0			
Isobutyl alcohol	+++++ 0.0067	0.0099 0.0061	0.0066 0.0067	0.0066	0.0060	Ave		0.0069				19.4		20.0			
Benzene	1.0138 1.0143	0.9891 0.9833	1.0795 0.9599	1.0303	1.0136	Ave		1.0105			0.5000	3.5		20.0			
1,2-Dichloroethane	0.3188 0.3283	0.3464 0.3157	0.3804 0.3109	0.3526	0.3382	Ave		0.3364			0.1000	6.9		20.0			
n-Heptane	+++++ 0.2144	0.8802 0.1936	0.3377 0.1887	0.2567	0.1924	Lin1	0.7042	0.1821				8.2			0.9960		0.9900
Trichloroethene	0.2467 0.2681	0.2495 0.2590	0.2847 0.2518	0.2743	0.2662	Ave		0.2625			0.1500	5.0		20.0			
Methylcyclohexane	0.4194 0.4783	0.4077 0.4531	0.4789 0.4475	0.4632	0.4019	Ave		0.4438			0.1000	6.9		20.0			
1,2-Dichloropropane	0.2237 0.2434	0.2318 0.2348	0.2548 0.2283	0.2454	0.2434	Ave		0.2382			0.1000	4.3		20.0			
1,4-Dioxane	+++++ 0.0031	0.0023 0.0028	0.0031 0.0029	0.0031	0.0029	Ave		0.0029				9.4		20.0			
Dibromomethane	0.1614 0.1384	0.1598 0.1317	0.1562 0.1296	0.1490	0.1437	Ave		0.1462				8.5		20.0			
Bromodichloromethane	0.3758 0.3237	0.3512 0.3126	0.3745 0.3073	0.3429	0.3313	Ave		0.3399			0.1500	7.7		20.0			
2-Chloroethyl vinyl ether	0.1180 0.1496	0.1065 0.1426	0.1438 0.1479	0.1446	0.1400	Ave		0.1366				11.5		20.0			
cis-1,3-Dichloropropene	0.3618 0.4104	0.3529 0.3979	0.4107 0.3934	0.4075	0.4047	Ave		0.3924			0.1500	5.7		20.0			
4-Methyl-2-pentanone	+++++ 0.1860	0.1655 0.1700	0.1890 0.1827	0.1882	0.1768	Ave		0.1797			0.0500	5.1		20.0			
Toluene	1.4384 1.4584	1.3761 1.4324	1.5186 1.3889	1.4376	1.4080	Ave		1.4323			0.4000	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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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								
trans-1,3-Dichloropropene	0.3410 0.5093	0.3762 0.4973	0.4572 0.4913	0.4625	0.4622	Ave		0.4496			0.1000	13.3		20.0			
Ethyl methacrylate	0.3564 0.3588	0.3784 0.3356	0.3546 0.3399	0.3651	0.3464	Ave		0.3544				3.9		20.0			
1,1,2-Trichloroethane	0.2217 0.2680	0.2028 0.2587	0.2516 0.2579	0.2484	0.2462	Ave		0.2444			0.1000	8.8		20.0			
Tetrachloroethene	0.2286 0.2840	0.2530 0.2757	0.2811 0.2645	0.2751	0.2667	Ave		0.2661			0.1500	6.8		20.0			
1,3-Dichloropropane	0.3755 0.4907	0.3705 0.4783	0.4560 0.4708	0.4679	0.4616	Ave		0.4464				10.4		20.0			
2-Hexanone	+++++ 0.1716	0.1535 0.1564	0.1788 0.1660	0.1721	0.1582	Ave		0.1652			0.0500	5.7		20.0			
Dibromochloromethane	0.2431 0.3068	0.2560 0.2999	0.2852 0.2986	0.2830	0.2849	Ave		0.2822				7.8		20.0			
1,2-Dibromoethane	0.1782 0.2743	0.2011 0.2679	0.2495 0.2656	0.2585	0.2525	Ave		0.2435				14.3		20.0			
Chlorobenzene	0.9034 0.9204	0.9209 0.9020	0.9749 0.8685	0.9284	0.8913	Ave		0.9137			0.3000	3.4		20.0			
1,1,1,2-Tetrachloroethane	0.2314 0.3137	0.2422 0.3102	0.2918 0.3048	0.2887	0.2899	Ave		0.2841				10.8		20.0			
Ethylbenzene	0.5240 0.5206	0.4978 0.5124	0.5528 0.4983	0.5190	0.5162	Ave		0.5176				3.3		20.0			
m-Xylene & p-Xylene	0.6764 0.6537	0.6360 0.6396	0.6980 0.6234	0.6640	0.6437	Ave		0.6543				3.7		20.0			
o-Xylene	0.6026 0.6226	0.6180 0.6057	0.6630 0.5885	0.6293	0.6042	Ave		0.6167				3.7		20.0			
Styrene	0.9103 0.9623	0.9223 0.9458	0.9822 0.9246	0.9555	0.9434	Ave		0.9433			0.3000	2.5		20.0			
Bromoform	0.1283 0.1966	0.1431 0.1896	0.1723 0.1955	0.1758	0.1773	Ave		0.1723			0.1000	14.3		20.0			
Isopropylbenzene	1.5279 1.6461	1.5516 1.6316	1.7440 1.5888	1.6379	1.6229	Ave		1.6188			0.1000	4.1		20.0			
1,1,2,2-Tetrachloroethane	0.5223 0.5938	0.4677 0.5730	0.5675 0.5752	0.5696	0.5600	Ave		0.5537			0.3000	7.3		20.0			
Bromobenzene	0.6346 0.6816	0.6126 0.6664	0.7208 0.6308	0.6853	0.6704	Ave		0.6628				5.3		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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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								
trans-1,4-Dichloro-2-butene	0.1807 0.2032	0.1588 0.1912	0.1954 0.1959	0.1948	0.1824	Ave		0.1878				7.4		20.0			
1,2,3-Trichloropropane	0.1616 0.1998	0.1444 0.1911	0.1839 0.1946	0.1926	0.1791	Ave		0.1809				10.4		20.0			
n-Propylbenzene	0.7992 0.8751	0.8222 0.8631	0.9060 0.8212	0.8706	0.8397	Ave		0.8496				4.1		20.0			
2-Chlorotoluene	0.6263 0.7088	0.6755 0.6961	0.7526 0.6548	0.7132	0.6800	Ave		0.6884				5.6		20.0			
1,3,5-Trimethylbenzene	2.4368 2.5807	2.4124 2.5461	2.7937 2.4201	2.6234	2.5171	Ave		2.5413				5.0		20.0			
4-Chlorotoluene	0.6506 0.7327	0.6949 0.7248	0.7803 0.6886	0.7426	0.7285	Ave		0.7179				5.5		20.0			
tert-Butylbenzene	2.1271 2.2282	2.1107 2.2050	2.3454 2.0861	2.2422	2.1771	Ave		2.1902				3.8		20.0			
1,2,4-Trimethylbenzene	2.5009 2.5951	2.5018 2.5722	2.7467 2.4448	2.6482	2.5646	Ave		2.5718				3.7		20.0			
sec-Butylbenzene	3.1426 3.3544	3.1765 3.3262	3.5070 3.1464	3.3560	3.2636	Ave		3.2841				3.9		20.0			
1,3-Dichlorobenzene	1.2597 1.3328	1.3318 1.3143	1.4508 1.2621	1.3550	1.3091	Ave		1.3269			0.6000	4.5		20.0			
p-Isopropyltoluene	2.5308 2.8818	2.6745 2.8327	3.0274 2.6968	2.9204	2.8234	Ave		2.7985				5.6		20.0			
1,4-Dichlorobenzene	1.2917 1.3455	1.3054 1.3214	1.4251 1.2651	1.3774	1.3186	Ave		1.3313			0.5000	3.8		20.0			
n-Butylbenzene	2.3069 2.6060	2.3731 2.5996	2.7246 2.4669	2.6242	2.5279	Ave		2.5286				5.5		20.0			
1,2-Dichlorobenzene	1.2125 1.2314	1.2107 1.2017	1.3196 1.1530	1.2819	1.2190	Ave		1.2287			0.4000	4.2		20.0			
1,2-Dibromo-3-Chloropropane	0.0883 0.1432	0.1234 0.1350	0.1379 0.1359	0.1441	0.1351	Ave		0.1304			0.0500	13.9		20.0			
1,2,4-Trichlorobenzene	0.6738 0.7380	0.6878 0.7178	0.7556 0.6826	0.7381	0.7157	Ave		0.7137			0.2000	4.2		20.0			
Hexachlorobutadiene	0.3052 0.3358	0.3022 0.3249	0.3465 0.3029	0.3358	0.3183	Ave		0.3214				5.3		20.0			
Naphthalene	1.6520 1.9087	1.6571 1.8317	1.9080 1.7899	1.9392	1.8194	Ave		1.8133				6.1		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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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								
1,2,3-Trichlorobenzene	0.5718 0.6253	0.6005 0.6031	0.6273 0.5759	0.6378	0.6018	Ave		0.6054				3.9		20.0			
Dibromofluoromethane (Surr)	0.2619 0.2248	0.2679 0.2194	0.2652 0.2130	0.2459	0.2438	Ave		0.2427				8.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3035 0.2715	0.2954 0.2650	0.3152 0.2619	0.2934	0.2867	Ave		0.2866				6.6		20.0			
Toluene-d8 (Surr)	1.1380 1.2442	1.1375 1.2351	1.3082 1.2121	1.2379	1.2413	Ave		1.2193				4.7		20.0			
4-Bromofluorobenzene (Surr)	0.4602 0.4636	0.4828 0.4566	0.5048 0.4547	0.4619	0.4665	Ave		0.4689				3.6		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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-482539/16	UXM36566.D
Level 2	STD8260 240-482539/15	UXM36565.D
Level 3	STD8260 240-482539/14	UXM36564.D
Level 4	STD8260 240-482539/13	UXM36563.D
Level 5	ICIS 240-482539/12	UXM36562.D
Level 6	STD8260 240-482539/11	UXM36561.D
Level 7	STD8260 240-482539/10	UXM36560.D
Level 8	STD8260 240-482539/9	UXM36559.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	11341 986295	23218 1568333	124485 1923007	254644	521337	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Chloromethane	FB	Ave	+++++ 1031351	25267 1513352	131139 +++++	263016	516784	+++++ 40.0	1.00 60.0	5.00 +++++	10.0	20.0
Vinyl chloride	FB	Ave	11420 1057956	22592 1571479	131472 1976569	267847	528137	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Butadiene	FB	Ave	12352 977604	23486 1480342	123470 1881802	248030	497027	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromomethane	FB	Lin1	9501 +++++	18466 +++++	77394 +++++	152735	290069	0.500 +++++	1.00 +++++	5.00 +++++	10.0	20.0
Chloroethane	FB	Ave	5618 630668	12787 947711	69524 1188246	148494	302707	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Dichlorofluoromethane	FB	Ave	14721 1365825	30081 2018120	161927 2487529	332011	673250	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Trichlorofluoromethane	FB	Ave	10912 1181544	24040 1825144	140019 2256344	292728	599691	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethyl ether	FB	Ave	4633 572153	9785 832192	61706 1047306	133043	266538	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Acrolein	FB	Ave	1531 166897	3319 242629	19008 320406	40042	76326	2.50 200	5.00 300	25.0 400	50.0	100
1,1-Dichloroethene	FB	Ave	7231 660895	12685 964125	80095 1184360	158281	314864	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	4774 561558	9678 794862	64382 975025	128614	228650	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Acetone	FB	Lin1	+++++	4247	14891	29262	57286	+++++	2.00	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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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
			120532	166617	222567			80.0	120	160		
Iodomethane	FB	Ave	+++++ 903532	19491 1339685	99622 1542405	207946	438172	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Carbon disulfide	FB	Ave	21850 2140127	45821 3120201	261190 3842562	523663	1044507	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Methyl acetate	FB	Ave	+++++ 1028384	20407 1476682	111187 2003502	238923	462809	+++++ 80.0	2.00 120	10.0 160	20.0	40.0
3-Chloro-1-propene	FB	Ave	+++++ 1141607	25509 1692772	139897 2095485	276742	558975	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Methylene Chloride	FB	Ave	8927 758873	16215 1109654	92507 1381172	184603	367525	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
tert-Butyl alcohol	FB	Ave	5433 723769	12719 982049	73438 1396265	165085	309438	5.00 400	10.0 600	50.0 800	100	200
Acrylonitrile	FB	Ave	26080 2820675	53687 4021522	305445 5391486	664489	1280837	5.00 400	10.0 600	50.0 800	100	200
Methyl tert-butyl ether	FB	Ave	13713 2089784	29667 3055508	211246 4099659	461885	924323	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	8230 793418	15467 1173698	95348 1487254	188448	378740	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Hexane	FB	Ave	9837 1194103	19699 1705650	117310 2226303	247142	432385	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Vinyl acetate	FB	Lin1	+++++ 969527	8934 1473979	77689 1940326	195424	422523	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1-Dichloroethane	FB	Ave	14658 1371481	29277 2000964	166953 2534657	328532	663468	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Butanone	FB	Ave	+++++ 167113	1825 237568	14532 330770	33818	70697	+++++ 80.0	2.00 120	10.0 160	20.0	40.0
2,2-Dichloropropane	FB	Ave	11626 1262244	23655 1862453	143169 2367980	297447	599623	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	9400 869864	18944 1270837	100880 1582529	207739	417324	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromochloromethane	FB	Ave	3884 381984	8629 553423	45439 696665	93795	186898	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Tetrahydrofuran	FB	Ave	4033 401653	8899 572186	44420 796162	97770	176066	1.00 80.0	2.00 120	10.0 160	20.0	40.0
Chloroform	FB	Ave	14209	29860	161649	323587	641693	0.500	1.00	5.00	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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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
			1318579	1933612	2432009			40.0	60.0	80.0		
1,1,1-Trichloroethane	FB	Ave	11951 1166383	23594 1718787	139010 2201508	280774	567341	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Cyclohexane	FB	Ave	12320 1391366	24144 1995738	159570 2535839	319119	575608	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1-Dichloropropene	FB	Ave	8382 1127144	17307 1652962	117502 2094409	250312	509778	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Carbon tetrachloride	FB	Ave	8385 1016878	18014 1499291	115116 1888726	239938	477414	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Isobutyl alcohol	FB	Ave	+++++ 530198	14075 727267	53023 1043686	115884	218878	+++++ 1000	25.0 1500	125 2000	250	500
Benzene	FB	Ave	27960 3196092	56037 4704418	347008 5997719	725305	1473638	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichloroethane	FB	Ave	8791 1034413	19627 1510298	122297 1942606	248188	491692	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
n-Heptane	FB	Lin1	+++++ 675481	49864 926191	108563 1178879	180723	279763	+++++ 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Trichloroethene	FB	Ave	6804 844884	14137 1238968	91508 1573112	193060	387000	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Methylcyclohexane	FB	Ave	11565 1507102	23099 2167660	153952 2796103	326060	584351	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichloropropane	FB	Ave	6169 766906	13133 1123332	81893 1426764	172735	353789	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,4-Dioxane	FB	Ave	+++++ 194270	2633 265006	19790 362849	43100	84760	+++++ 800	20.0 1200	100 1600	200	400
Dibromomethane	FB	Ave	4450 435944	9051 630065	50215 809597	104904	208931	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Bromodichloromethane	FB	Ave	10363 1020084	19896 1495430	120385 1919875	241373	481632	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	6507 942860	12064 1364196	92465 1848816	203564	407001	1.00 80.0	2.00 120	10.0 160	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	9979 1293185	19993 1903637	132008 2458040	286830	588401	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
4-Methyl-2-pentanone	FB	Ave	+++++ 1171893	18753 1626995	121526 2283285	264982	513998	+++++ 80.0	2.00 120	10.0 160	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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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
Toluene	CBNZ d5	Ave	34328 3419906	66231 5058475	393678 6528007	800365	1602590	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	8138 1194300	18104 1756332	118531 2309153	257488	526075	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	8505 841290	18212 1185302	91928 1597367	203244	394251	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	5292 628571	9762 913602	65237 1212190	138281	280265	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	5456 665975	12179 973646	72881 1243255	153170	303515	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	8962 1150782	17833 1689142	118210 2212777	260529	525336	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
2-Hexanone	CBNZ d5	Ave	+++++ 804845	14773 1105003	92697 1560121	191609	360081	+++++ 80.0	2.00 120	10.0 160	20.0	40.0
Dibromochloromethane	CBNZ d5	Ave	5802 719406	12319 1059270	73945 1403543	157565	324212	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	4254 643259	9680 946241	64671 1248523	143933	287346	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	21561 2158356	44323 3185422	252747 4081967	516913	1014472	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5522 735555	11657 1095325	75635 1432776	160763	329931	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	12506 1220792	23957 1809445	143301 2342069	288952	587535	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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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
m-Xylene & p-Xylene	CBNZ d5	Ave	16143	30608	180961	369677	732693	0.500	1.00	5.00	10.0	20.0
			1532809	2258639	2930155			40.0	60.0	80.0		
o-Xylene	CBNZ d5	Ave	14382	29743	171869	350387	687726	0.500	1.00	5.00	10.0	20.0
			1460001	2139178	2765818			40.0	60.0	80.0		
Styrene	CBNZ d5	Ave	21725	44392	254627	531972	1073705	0.500	1.00	5.00	10.0	20.0
			2256578	3340145	4345866			40.0	60.0	80.0		
Bromoform	CBNZ d5	Ave	3061	6885	44655	97882	201839	0.500	1.00	5.00	10.0	20.0
			461087	669631	918634			40.0	60.0	80.0		
Isopropylbenzene	CBNZ d5	Ave	36466	74680	452123	911890	1847145	0.500	1.00	5.00	10.0	20.0
			3860053	5761851	7467257			40.0	60.0	80.0		
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6873	12576	79608	169732	347786	0.500	1.00	5.00	10.0	20.0
			754279	1089306	1503039			40.0	60.0	80.0		
Bromobenzene	DCBd 4	Ave	8351	16470	101111	204220	416341	0.500	1.00	5.00	10.0	20.0
			865867	1266885	1648117			40.0	60.0	80.0		
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2378	4269	27408	58039	113297	0.500	1.00	5.00	10.0	20.0
			258094	363526	511776			40.0	60.0	80.0		
1,2,3-Trichloropropane	DCBd 4	Ave	2127	3883	25789	57381	111200	0.500	1.00	5.00	10.0	20.0
			253835	363185	508520			40.0	60.0	80.0		
n-Propylbenzene	DCBd 4	Ave	10517	22106	127087	259411	521484	0.500	1.00	5.00	10.0	20.0
			1111645	1640788	2145808			40.0	60.0	80.0		
2-Chlorotoluene	DCBd 4	Ave	8242	18162	105569	212531	422313	0.500	1.00	5.00	10.0	20.0
			900313	1323192	1711017			40.0	60.0	80.0		
1,3,5-Trimethylbenzene	DCBd 4	Ave	32066	64863	391874	781718	1563229	0.500	1.00	5.00	10.0	20.0
			3278175	4840060	6323559			40.0	60.0	80.0		

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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
4-Chlorotoluene	DCBd 4	Ave	8561	18685	109456	221271	452436	0.500	1.00	5.00	10.0	20.0
			930696	1377915	1799292			40.0	60.0	80.0		
tert-Butylbenzene	DCBd 4	Ave	27991	56751	328982	668122	1352121	0.500	1.00	5.00	10.0	20.0
			2830331	4191600	5450673			40.0	60.0	80.0		
1,2,4-Trimethylbenzene	DCBd 4	Ave	32909	67267	385275	789125	1592750	0.500	1.00	5.00	10.0	20.0
			3296449	4889696	6387972			40.0	60.0	80.0		
sec-Butylbenzene	DCBd 4	Ave	41354	85407	491929	1000010	2026875	0.500	1.00	5.00	10.0	20.0
			4260996	6323030	8221252			40.0	60.0	80.0		
1,3-Dichlorobenzene	DCBd 4	Ave	16576	35807	203505	403771	813006	0.500	1.00	5.00	10.0	20.0
			1693004	2498404	3297670			40.0	60.0	80.0		
p-Isopropyltoluene	DCBd 4	Ave	33303	71910	424655	870228	1753476	0.500	1.00	5.00	10.0	20.0
			3660625	5385019	7046360			40.0	60.0	80.0		
1,4-Dichlorobenzene	DCBd 4	Ave	16998	35098	199899	410444	818933	0.500	1.00	5.00	10.0	20.0
			1709091	2512062	3305517			40.0	60.0	80.0		
n-Butylbenzene	DCBd 4	Ave	30357	63805	382172	781965	1569935	0.500	1.00	5.00	10.0	20.0
			3310304	4941850	6445729			40.0	60.0	80.0		
1,2-Dichlorobenzene	DCBd 4	Ave	15955	32551	185101	381974	757042	0.500	1.00	5.00	10.0	20.0
			1564238	2284333	3012586			40.0	60.0	80.0		
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1162	3317	19343	42932	83908	0.500	1.00	5.00	10.0	20.0
			181905	256709	354967			40.0	60.0	80.0		
1,2,4-Trichlorobenzene	DCBd 4	Ave	8867	18493	105989	219931	444480	0.500	1.00	5.00	10.0	20.0
			937434	1364569	1783490			40.0	60.0	80.0		
Hexachlorobutadiene	DCBd 4	Ave	4016	8126	48606	100050	197666	0.500	1.00	5.00	10.0	20.0
			426502	617670	791330			40.0	60.0	80.0		

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

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
Naphthalene	DCBd 4	Ave	21739 2424480	44555 3482116	267630 4676906	577841	1129929	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	7524 794246	16145 1146408	87985 1504837	190066	373719	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	7223 708226	15176 1049744	85262 1330684	173107	354490	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	8371 855419	16733 1267996	101326 1636474	206531	416738	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	27159 2917585	54747 4361732	339137 5697155	689182	1412859	0.500 40.0	1.00 60.0	5.00 80.0	10.0	20.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	10982 1087162	23238 1612592	130869 2137108	257143	530933	0.500 40.0	1.00 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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 12:04 Calibration End Date: 04/23/2021 14:53 Calibration ID: 61157

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-482539/16	UXM36566.D
Level 2	STD8260 240-482539/15	UXM36565.D
Level 3	STD8260 240-482539/14	UXM36564.D
Level 4	STD8260 240-482539/13	UXM36563.D
Level 5	ICIS 240-482539/12	UXM36562.D
Level 6	STD8260 240-482539/11	UXM36561.D
Level 7	STD8260 240-482539/10	UXM36560.D
Level 8	STD8260 240-482539/9	UXM36559.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
Bromomethane	-22.8 +++++	+++++				+++++	50					
Acetone	+++++	-14.1						50				
Vinyl acetate	+++++	14.3						50				
n-Heptane	+++++	-3.4						50				

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D
Lims ID: std8260 L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 23-Apr-2021 12:04:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-009
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:33:28 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 13:28:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	1562115	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	1175011	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	653221	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.264	5.264	0.000	93	1330684	80.0	70.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	1636474	80.0	73.1	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	5697155	80.0	79.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	86	2137108	80.0	77.6	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	1923007	80.0	68.5	
10 Chloromethane	50		1.897				ND	ND	U
11 Vinyl chloride	62	2.015	2.015	0.000	98	1976569	80.0	68.7	
12 Butadiene	54	2.051	2.051	0.000	98	1881802	80.0	67.4	
13 Bromomethane	94		2.347				ND	ND	U
14 Chloroethane	64	2.454	2.466	-0.012	100	1188246	80.0	73.6	
15 Dichlorofluoromethane	67	2.691	2.703	-0.012	98	2487529	80.0	67.8	
16 Trichlorofluoromethane	101	2.715	2.727	-0.012	98	2256344	80.0	72.2	
17 Ethyl ether	59	3.011	3.011	0.000	89	1047306	80.0	75.1	
18 Acrolein	56	3.142	3.142	0.000	99	320406	400.0	375.0	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	98	1184360	80.0	68.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.248	3.248	0.000	95	975025	80.0	72.1	
21 Acetone	58	3.284	3.284	0.000	100	222567	160.0	158.0	
23 Iodomethane	142	3.379	3.391	-0.012	98	1542405	80.0	67.0	
24 Carbon disulfide	76	3.450	3.450	0.000	99	3842562	80.0	67.6	
27 Methyl acetate	43	3.569	3.569	0.000	97	2003502	160.0	154.8	
26 3-Chloro-1-propene	41	3.581	3.592	-0.012	90	2095485	80.0	69.2	
28 Methylene Chloride	84	3.711	3.711	0.000	92	1381172	80.0	67.2	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	99	1396265	800.0	814.5	
30 Acrylonitrile	53	3.924	3.924	0.000	99	5391486	800.0	759.9	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	95	4099659	80.0	85.2	
32 trans-1,2-Dichloroethene	96	3.948	3.960	-0.012	99	1487254	80.0	71.5	
33 Hexane	57	4.197	4.197	0.000	91	2226303	80.0	81.2	
35 Vinyl acetate	43	4.339	4.339	0.000	97	1940326	80.0	80.8	

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	4.351	4.351	0.000	96	2534657	80.0	69.2	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	99	330770	160.0	179.8	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	83	1582529	80.0	68.5	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	88	2367980	80.0	73.8	
45 Chlorobromomethane	128	5.051	5.051	0.000	95	696665	80.0	68.3	
46 Tetrahydrofuran	42	5.063	5.063	0.000	85	796162	160.0	151.6	
47 Chloroform	83	5.134	5.134	0.000	95	2432009	80.0	68.1	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	99	2201508	80.0	71.5	
49 Cyclohexane	56	5.347	5.347	0.000	88	2535839	80.0	74.6	
51 Carbon tetrachloride	117	5.419	5.419	0.000	87	1888726	80.0	74.8	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	94	2094409	80.0	78.9	
52 Isobutyl alcohol	41	5.478	5.466	0.012	94	1043686	2000.0	1923.3	
54 Benzene	78	5.585	5.585	0.000	97	5997719	80.0	76.0	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	97	1942606	80.0	73.9	
56 n-Heptane	57	5.822	5.822	0.000	92	1178879	80.0	79.0	
58 Trichloroethene	130	6.154	6.154	0.000	97	1573112	80.0	76.7	
60 Methylcyclohexane	83	6.355	6.355	0.000	91	2796103	80.0	80.7	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	93	1426764	80.0	76.7	
64 1,4-Dioxane	88	6.427	6.427	0.000	94	362849	1600.0	1615.1	
63 Dibromomethane	93	6.450	6.450	0.000	95	809597	80.0	70.9	
65 Dichlorobromomethane	83	6.604	6.604	0.000	99	1919875	80.0	72.3	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	93	1848816	160.0	173.3	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	95	2458040	80.0	80.2	
69 4-Methyl-2-pentanone (MIBK)	43	7.102	7.102	0.000	96	2283285	160.0	162.6	
70 Toluene	91	7.280	7.280	0.000	98	6528007	80.0	77.6	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	94	2309153	80.0	87.4	
72 Ethyl methacrylate	69	7.518	7.518	0.000	88	1597367	80.0	76.7	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	91	1212190	80.0	84.4	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	1243255	80.0	79.5	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	91	2212777	80.0	84.4	
76 2-Hexanone	43	7.850	7.850	0.000	95	1560121	160.0	160.7	
78 Chlorodibromomethane	129	8.016	8.016	0.000	90	1403543	80.0	84.7	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	1248523	80.0	87.3	
82 Chlorobenzene	112	8.585	8.585	0.000	95	4081967	80.0	76.0	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	94	1432776	80.0	85.8	
84 Ethylbenzene	106	8.668	8.668	0.000	99	2342069	80.0	77.0	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	2930155	80.0	76.2	
86 o-Xylene	106	9.166	9.166	0.000	96	2765818	80.0	76.3	
87 Styrene	104	9.178	9.178	0.000	94	4345866	80.0	78.4	
88 Bromoform	173	9.367	9.367	0.000	97	918634	80.0	90.7	
89 Isopropylbenzene	105	9.510	9.510	0.000	96	7467257	80.0	78.5	
92 1,1,2,2-Tetrachloroethane	83	9.806	9.806	0.000	95	1503039	80.0	83.1	
93 Bromobenzene	156	9.842	9.842	0.000	96	1648117	80.0	76.1	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	82	511776	80.0	83.4	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	81	508520	80.0	86.1	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	2145808	80.0	77.3	
97 2-Chlorotoluene	126	10.020	10.020	0.000	96	1711017	80.0	76.1	
99 1,3,5-Trimethylbenzene	105	10.103	10.091	0.012	94	6323559	80.0	76.2	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	1799292	80.0	76.7	
102 tert-Butylbenzene	119	10.411	10.411	0.000	93	5450673	80.0	76.2	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	6387972	80.0	76.0	
105 sec-Butylbenzene	105	10.636	10.624	0.012	94	8221252	80.0	76.6	

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	10.755	10.755	0.000	98	3297670	80.0	76.1	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	7046360	80.0	77.1	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	3305517	80.0	76.0	
111 n-Butylbenzene	91	11.182	11.182	0.000	98	6445729	80.0	78.0	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	3012586	80.0	75.1	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	86	354967	80.0	83.4	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	1783490	80.0	76.5	
116 Hexachlorobutadiene	225	12.972	12.972	0.000	98	791330	80.0	75.4	
117 Naphthalene	128	13.115	13.115	0.000	97	4676906	80.0	79.0	
118 1,2,3-Trichlorobenzene	180	13.364	13.352	0.012	96	1504837	80.0	76.1	
S 134 Trihalomethanes, Total	1				0		320.0	315.8	
S 158 Total BTEX	1				0		400.0	383.1	
S 131 1,2-Dichloroethene, Total	96				0			140.0	
S 132 1,3-Dichloropropene, Total	75				0			167.6	
S 133 Xylenes, Total	106				0		160.0	152.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00382	Amount Added:	64.00	Units: uL
vmarolistdw_00389	Amount Added:	64.00	Units: uL
vmrprimw_00432	Amount Added:	64.00	Units: uL
vm50ss_00439	Amount Added:	64.00	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

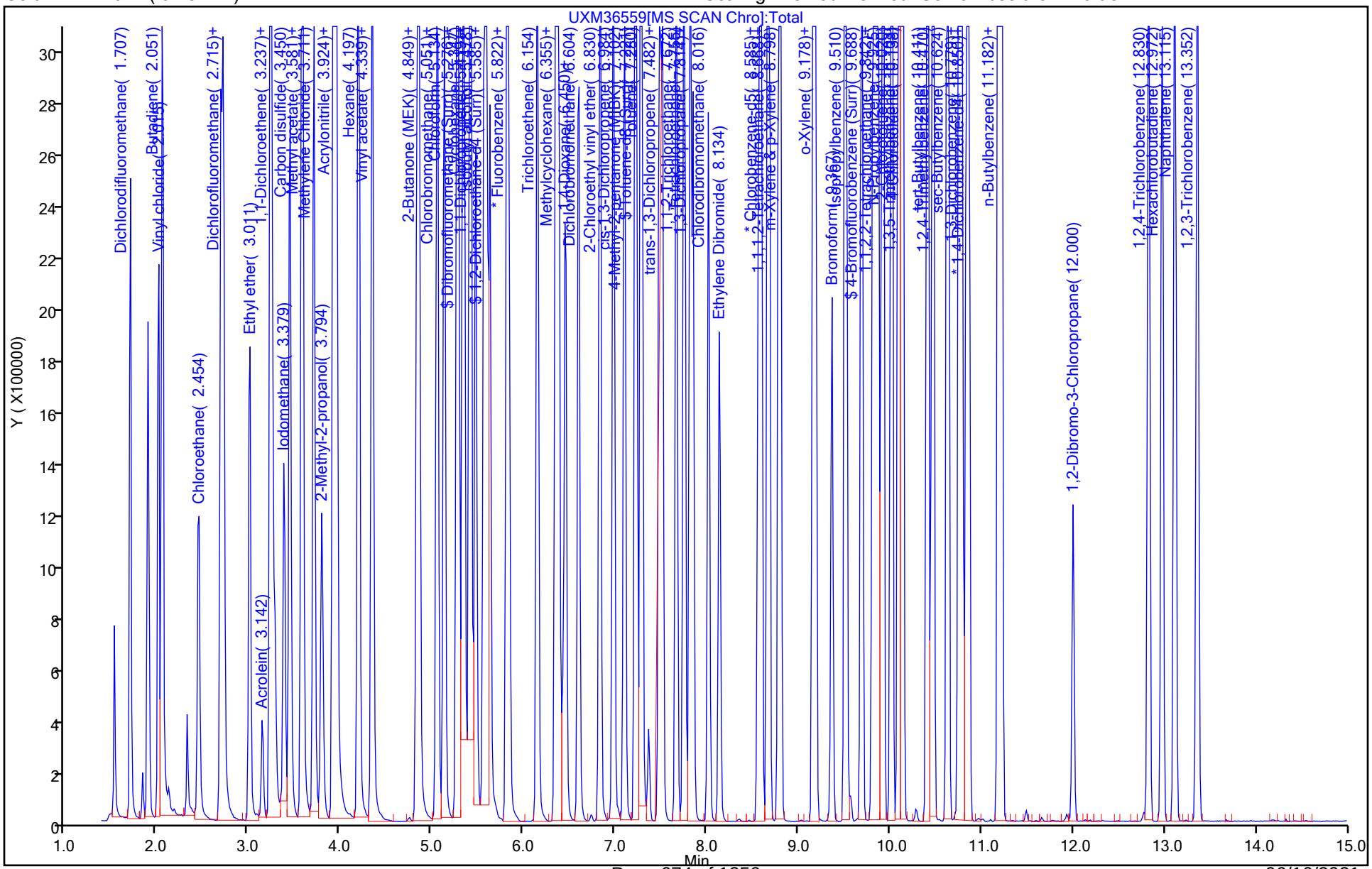
Report Date: 26-Apr-2021 08:33:30 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D

Injection Date:	23-Apr-2021 12:04:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L8			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

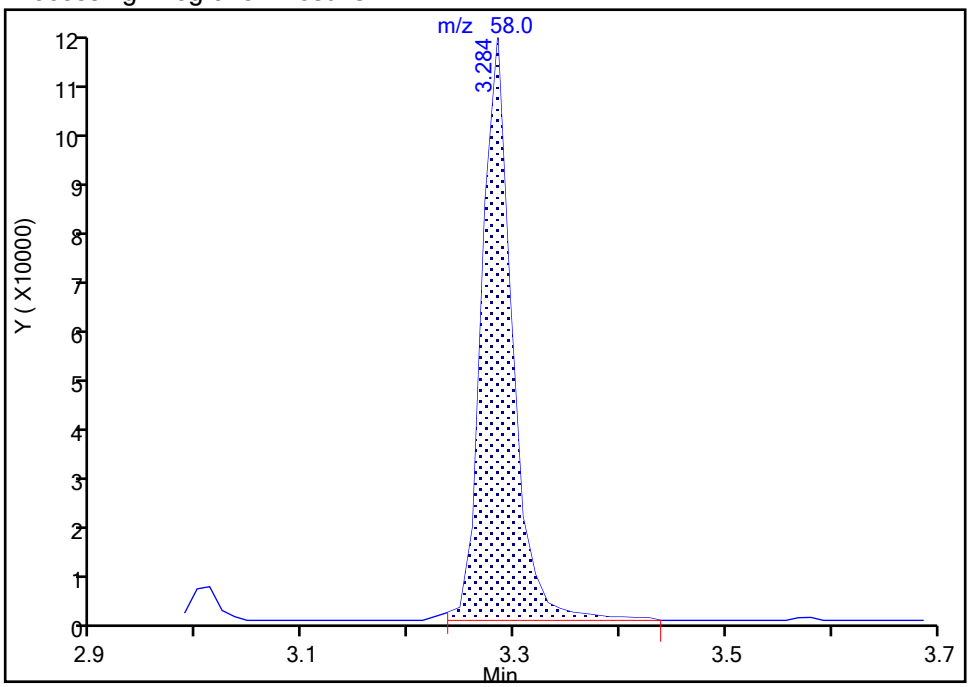
Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D
Injection Date: 23-Apr-2021 12:04:30 Instrument ID: A3UX16
Lims ID: std8260 L8
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

21 Acetone, CAS: 67-64-1

Signal: 2

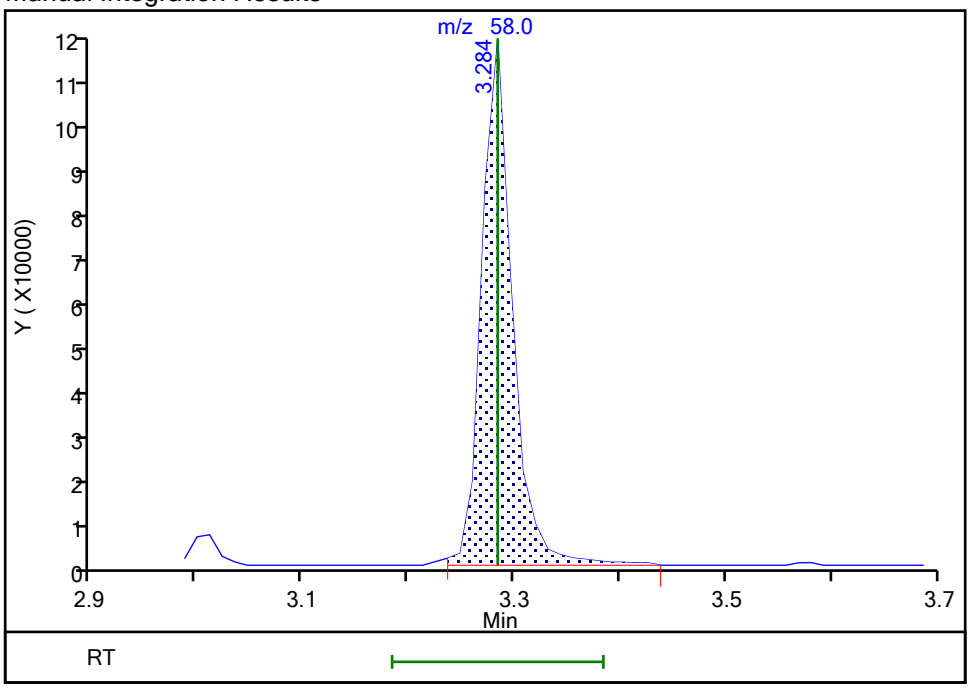
Processing Integration Results

RT: 3.28
Area: 222567
Amount: 158.0266
Amount Units: ug/l



Manual Integration Results

RT: 3.28
Area: 222567
Amount: 158.0266
Amount Units: ug/l



Reviewer: bosworthh, 23-Apr-2021 15:27:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton

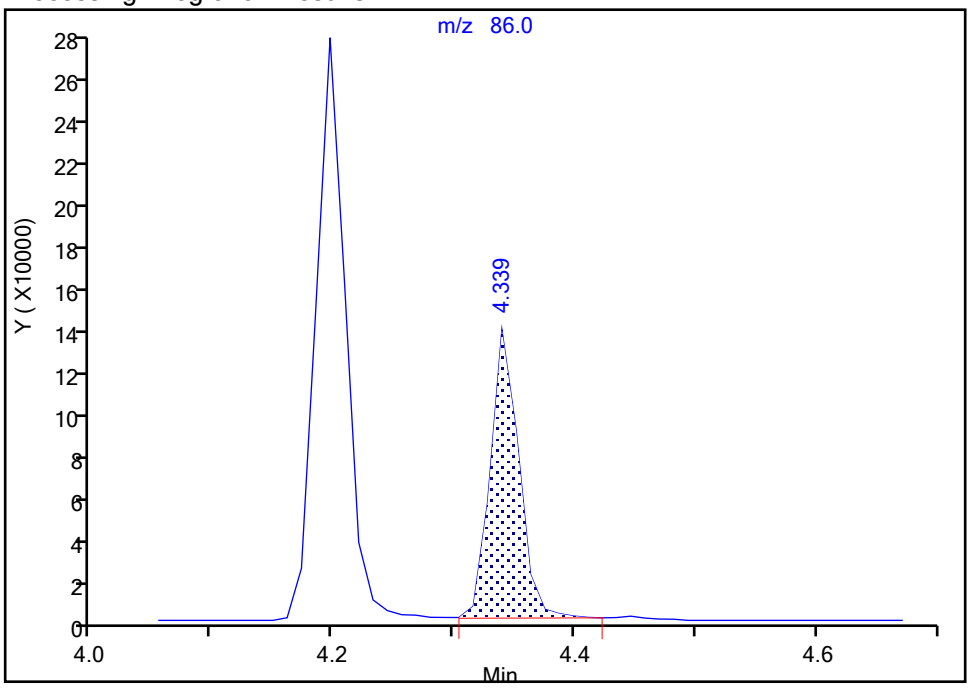
Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D
Injection Date: 23-Apr-2021 12:04:30 Instrument ID: A3UX16
Lims ID: std8260 L8
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

35 Vinyl acetate, CAS: 108-05-4

Signal: 2

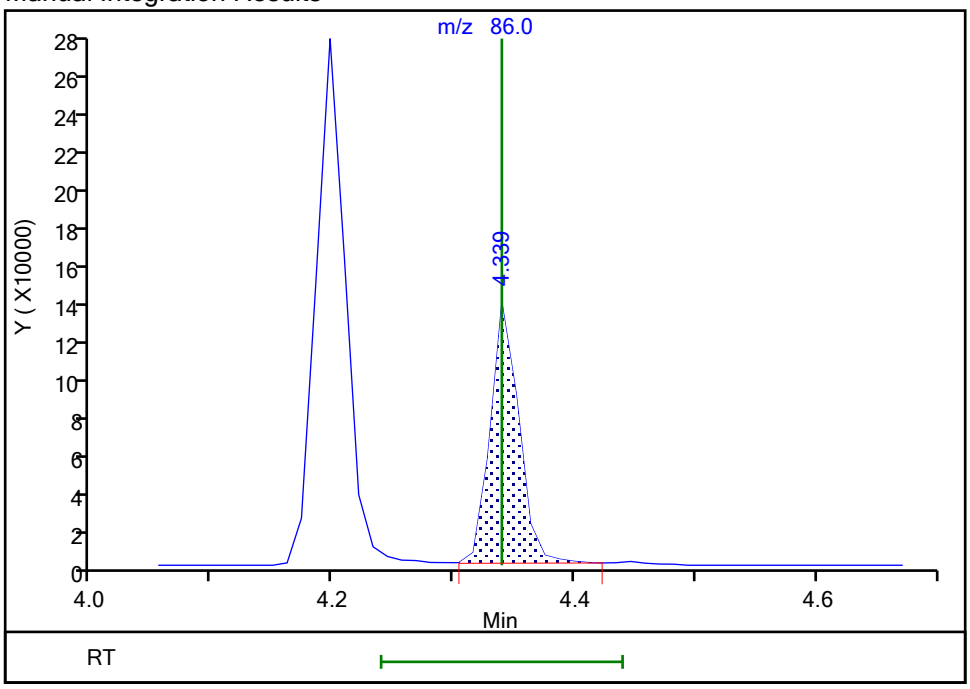
Processing Integration Results

RT: 4.34
Area: 220900
Amount: 80.761277
Amount Units: ug/l



Manual Integration Results

RT: 4.34
Area: 220900
Amount: 80.761277
Amount Units: ug/l



Reviewer: bosworthh, 23-Apr-2021 15:27:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

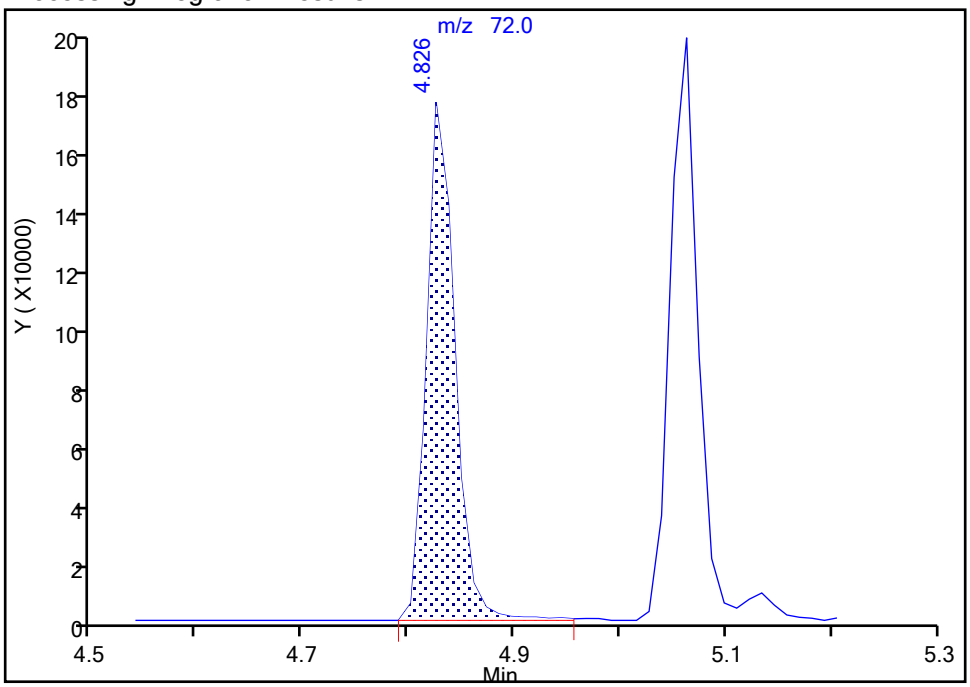
Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D
Injection Date: 23-Apr-2021 12:04:30 Instrument ID: A3UX16
Lims ID: std8260 L8
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

40 2-Butanone (MEK), CAS: 78-93-3

Signal: 2

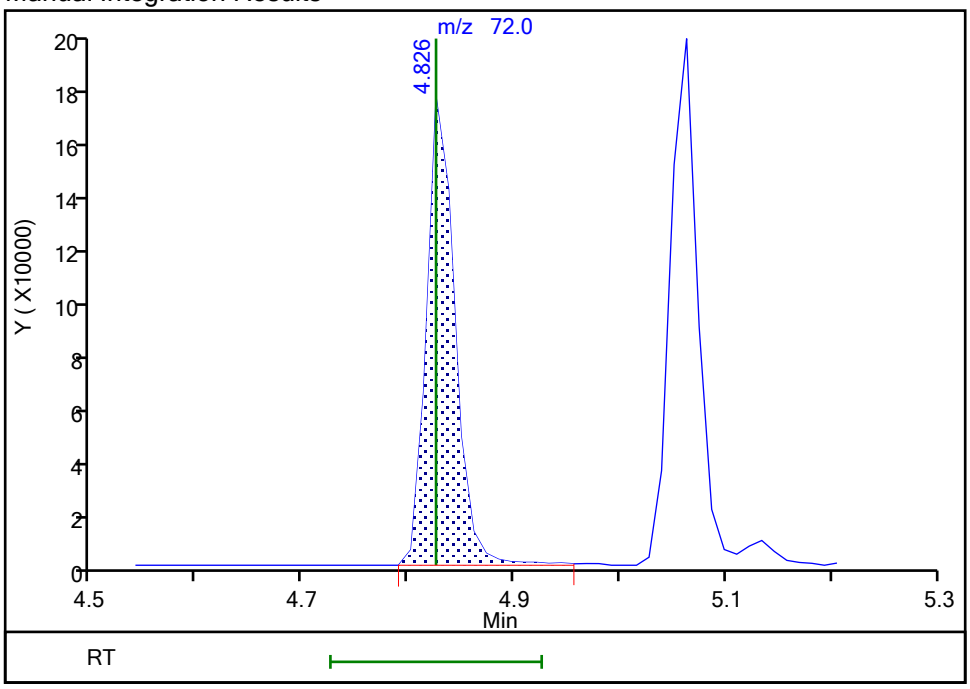
Processing Integration Results

RT: 4.83
Area: 330770
Amount: 164.0504
Amount Units: ug/l



Manual Integration Results

RT: 4.83
Area: 330770
Amount: 179.8159
Amount Units: ug/l



Reviewer: bosworthh, 23-Apr-2021 15:28:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

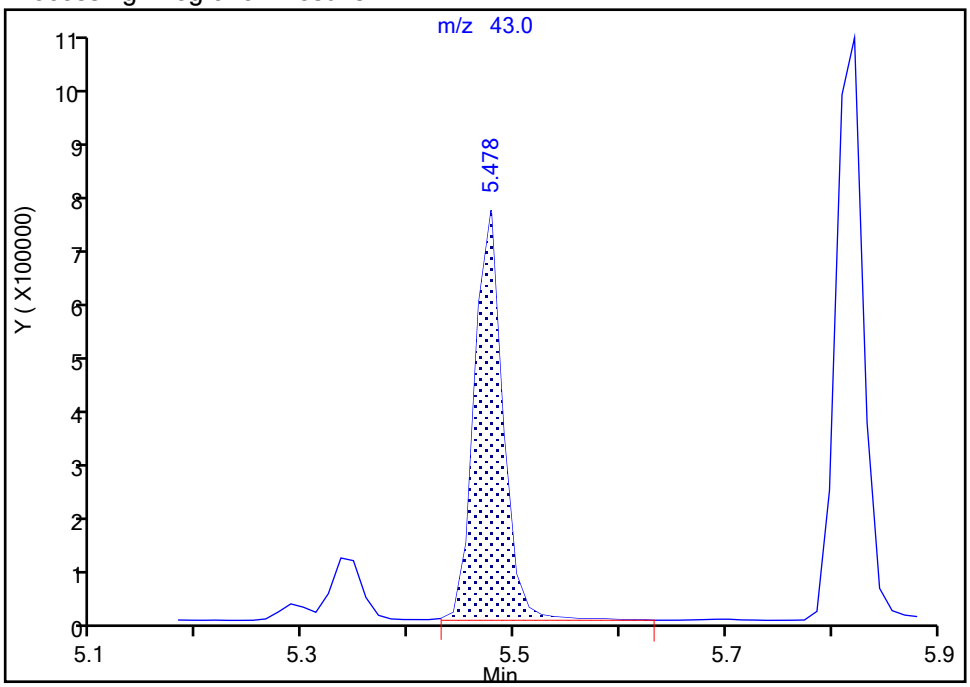
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D				
Injection Date:	23-Apr-2021 12:04:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L8				
Client ID:					
Operator ID:	001765	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 2

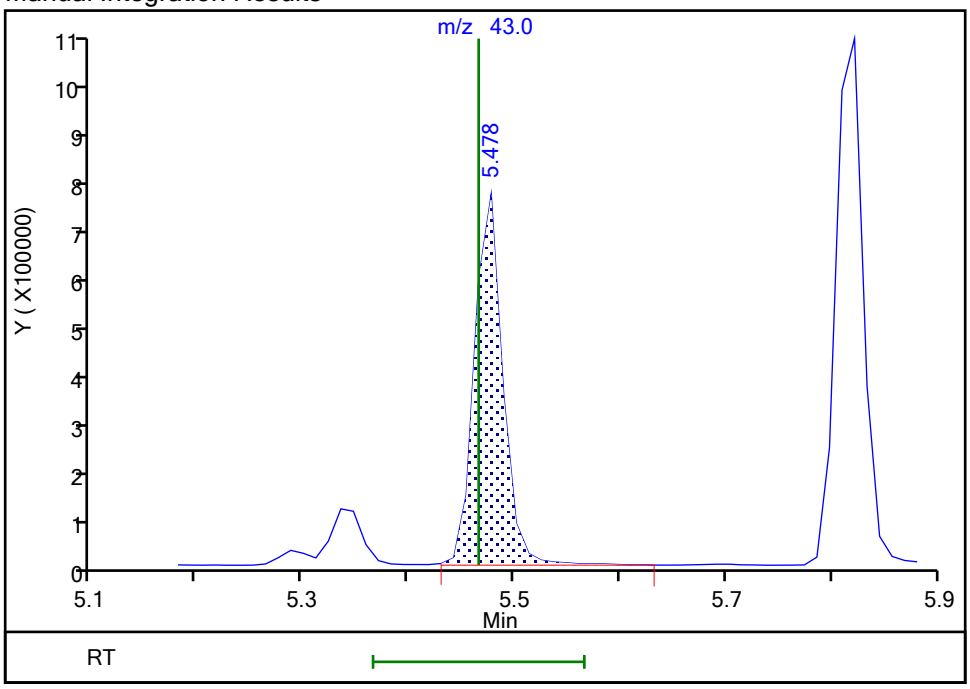
Processing Integration Results

RT: 5.48
Area: 1443967
Amount: 2083.5310
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 1443967
Amount: 1923.2536
Amount Units: ug/l



Reviewer: bosworthh, 23-Apr-2021 15:29:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton

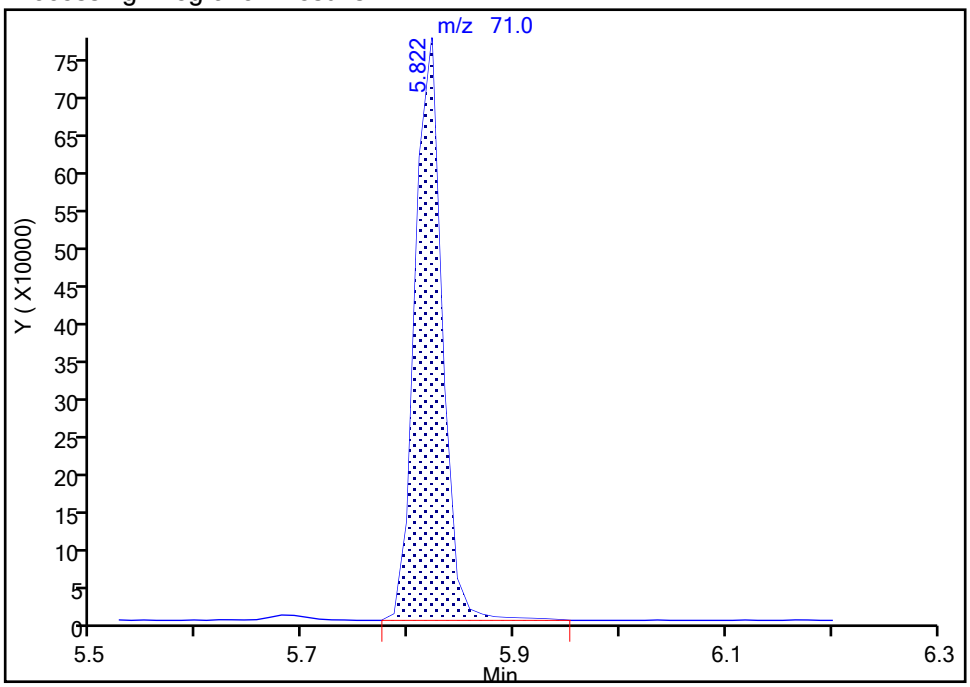
Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D
Injection Date: 23-Apr-2021 12:04:30 Instrument ID: A3UX16
Lims ID: std8260 L8
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Signal: 2

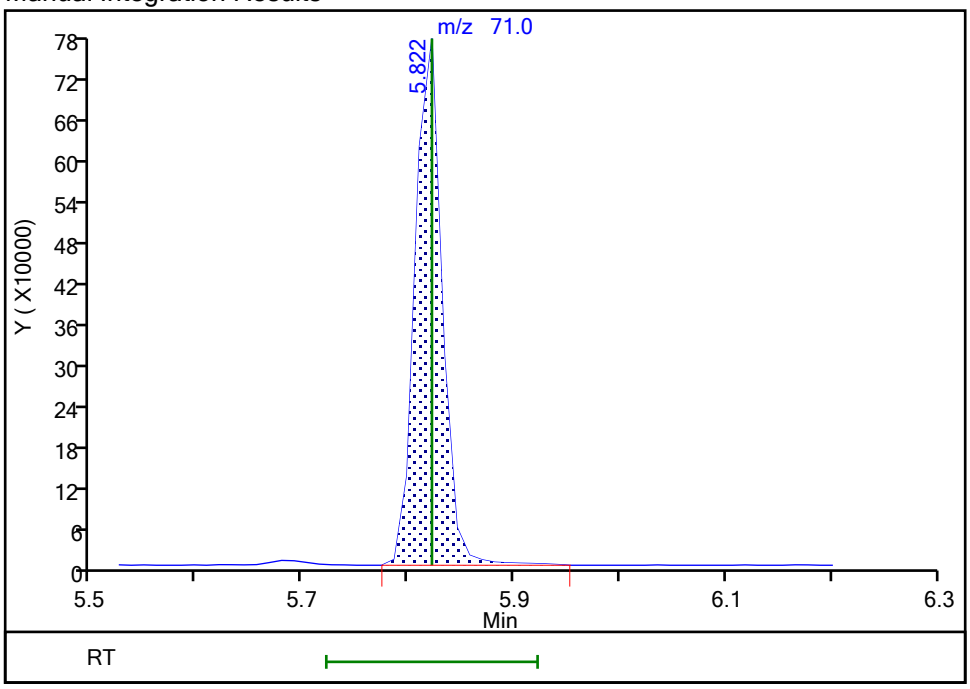
Processing Integration Results

RT: 5.82
Area: 1371358
Amount: 79.006096
Amount Units: ug/l



Manual Integration Results

RT: 5.82
Area: 1371358
Amount: 79.006096
Amount Units: ug/l



Reviewer: bosworthh, 23-Apr-2021 15:30:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

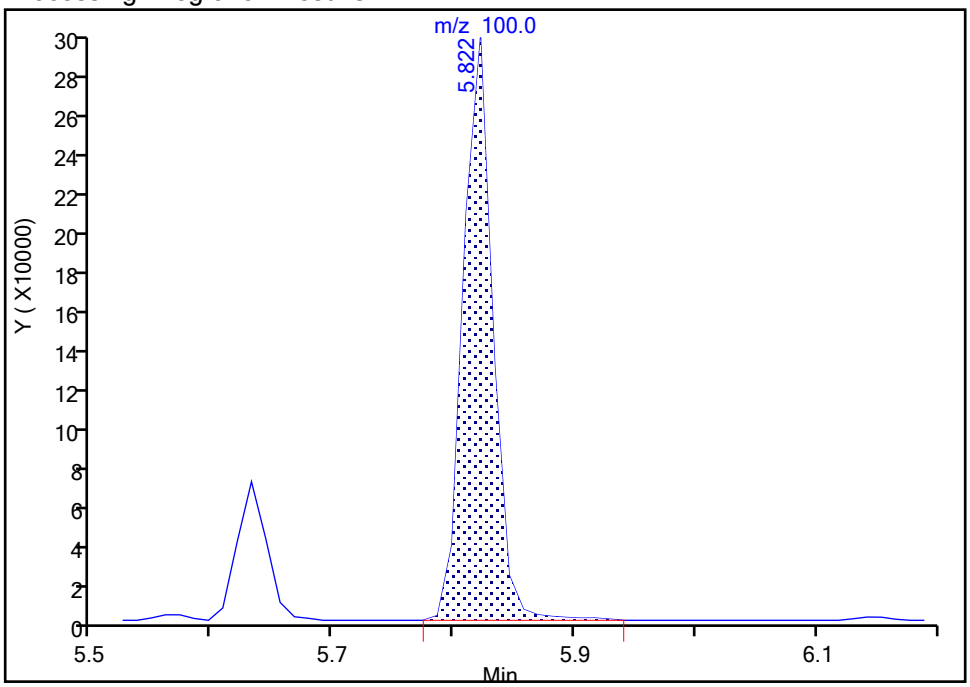
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D				
Injection Date:	23-Apr-2021 12:04:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L8				
Client ID:					
Operator ID:	001765	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

56 n-Heptane, CAS: 142-82-5

Signal: 3

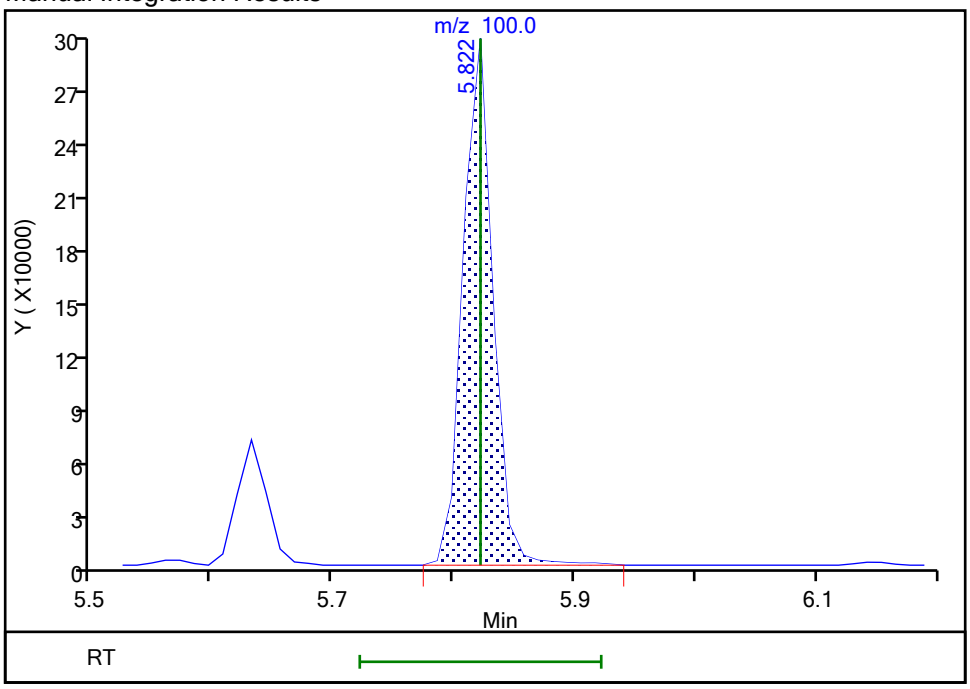
Processing Integration Results

RT: 5.82
Area: 505082
Amount: 79.006096
Amount Units: ug/l



Manual Integration Results

RT: 5.82
Area: 505082
Amount: 79.006096
Amount Units: ug/l



Reviewer: bosworthh, 23-Apr-2021 15:30:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

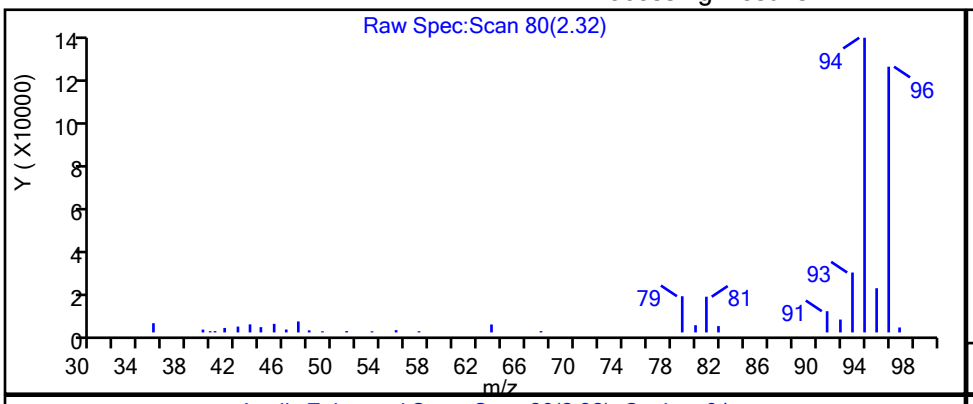
User Disabled Compound Report

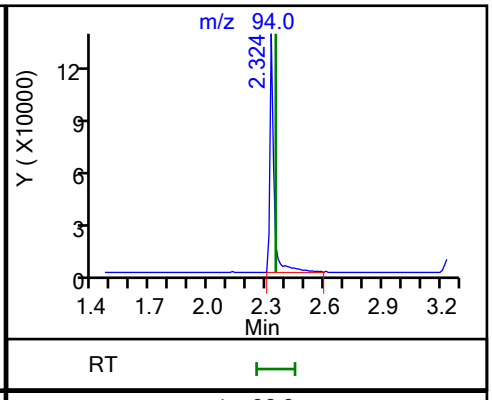
Eurofins TestAmerica, Canton

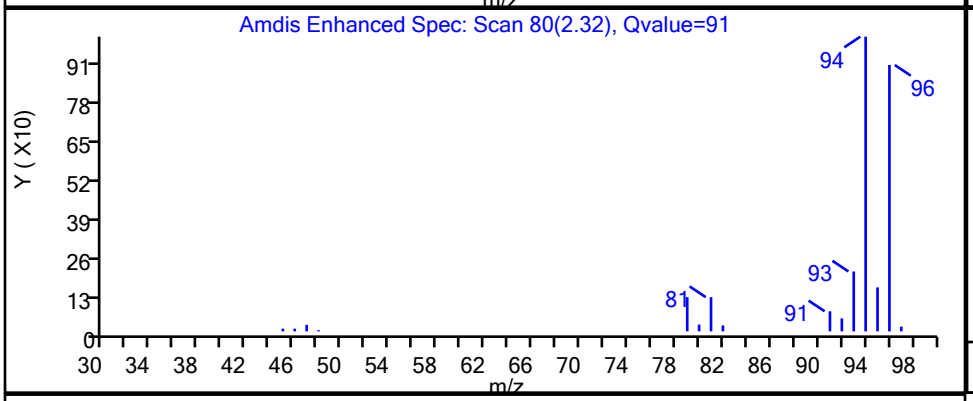
Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D
Injection Date: 23-Apr-2021 12:04:30 Instrument ID: A3UX16
Lims ID: std8260 L8
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

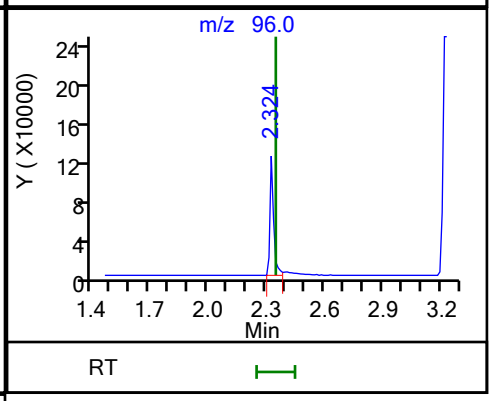
13 Bromomethane, CAS: 74-83-9

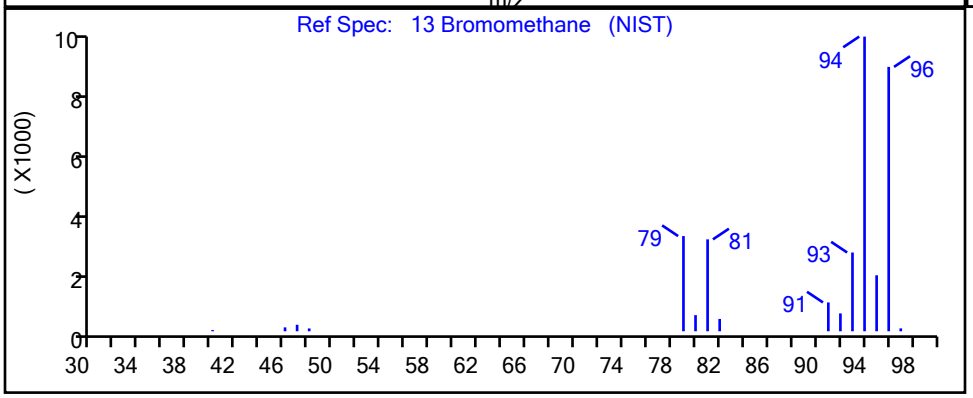
Processing Results











RT	Mass	Response	Amount
2.32	94.00	201937	31.986328
2.32	96.00	165273	

Reviewer: bosworthh, 23-Apr-2021 13:27:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

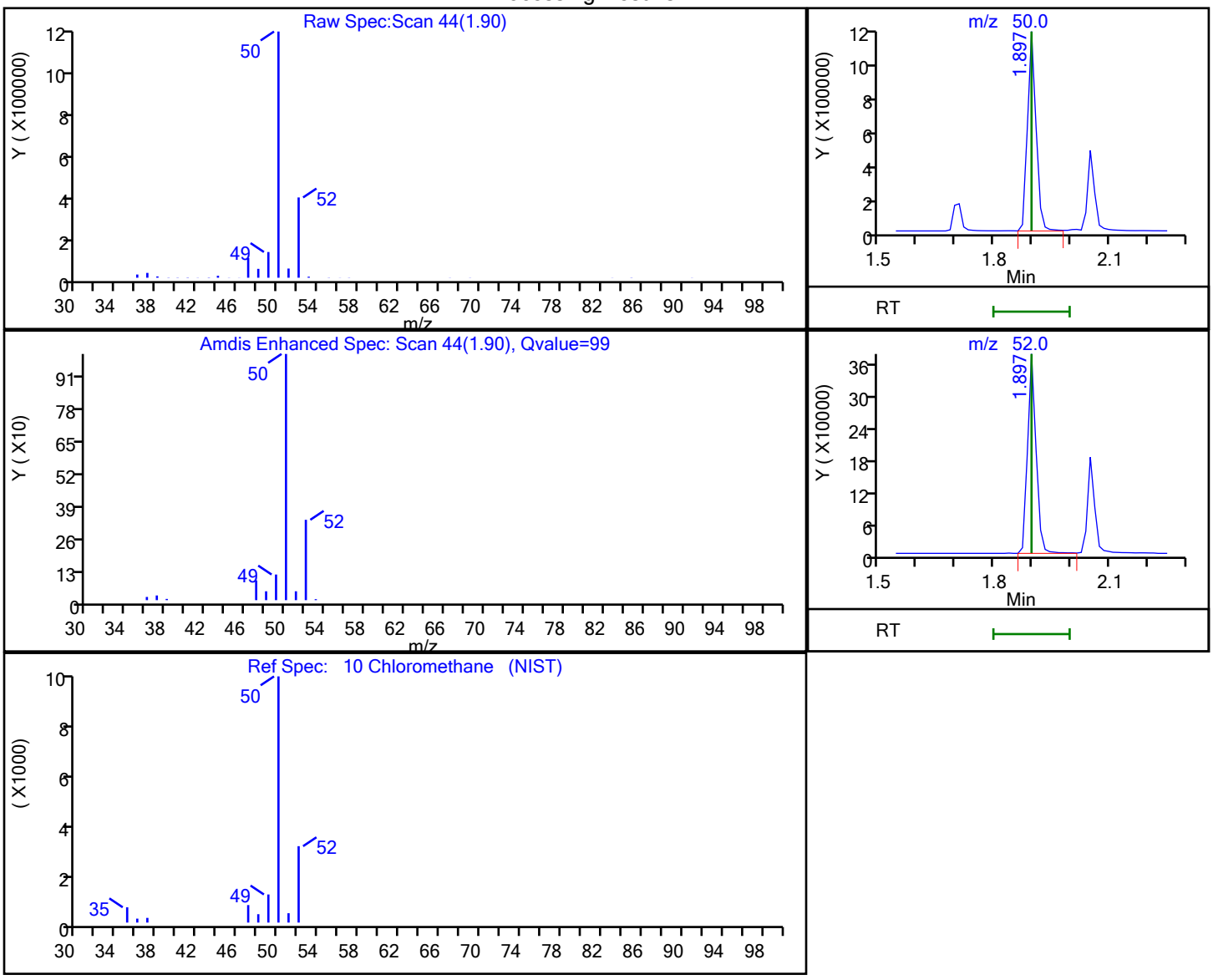
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36559.D				
Injection Date:	23-Apr-2021 12:04:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L8				
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		

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.90	50.00	1792979	73.645079
1.90	52.00	581279	

Reviewer: bosworthh, 23-Apr-2021 15:26:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36560.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Apr-2021 12:28:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-010
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:33:38 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 13:30:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	1594706	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	89	1177165	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	633664	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.264	5.264	0.000	94	1049744	60.0	54.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	1267996	60.0	55.5	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	4361732	60.0	60.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	88	1612592	60.0	58.4	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	1568333	60.0	54.7	
10 Chloromethane	50	1.897	1.897	0.000	99	1513352	60.0	51.1	
11 Vinyl chloride	62	2.015	2.015	0.000	98	1571479	60.0	53.5	
12 Butadiene	54	2.051	2.051	0.000	98	1480342	60.0	51.9	
13 Bromomethane	94		2.347				ND	ND	U
14 Chloroethane	64	2.454	2.466	-0.012	99	947711	60.0	57.5	
15 Dichlorofluoromethane	67	2.691	2.703	-0.012	97	2018120	60.0	53.9	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	98	1825144	60.0	57.2	
17 Ethyl ether	59	3.011	3.011	0.000	89	832192	60.0	58.5	
18 Acrolein	56	3.142	3.142	0.000	99	242629	300.0	278.2	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	98	964125	60.0	54.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.248	3.248	0.000	92	794862	60.0	57.6	
21 Acetone	58	3.284	3.284	0.000	100	166617	120.0	115.2	
23 Iodomethane	142	3.379	3.391	-0.012	98	1339685	60.0	57.0	
24 Carbon disulfide	76	3.450	3.450	0.000	99	3120201	60.0	53.8	
27 Methyl acetate	43	3.569	3.569	0.000	97	1476682	120.0	111.8	
26 3-Chloro-1-propene	41	3.581	3.592	-0.012	91	1692772	60.0	54.7	
28 Methylene Chloride	84	3.711	3.711	0.000	91	1109654	60.0	52.9	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	982049	600.0	561.2	
30 Acrylonitrile	53	3.924	3.924	0.000	99	4021522	600.0	555.2	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	95	3055508	60.0	62.2	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	99	1173698	60.0	55.2	
33 Hexane	57	4.197	4.197	0.000	91	1705650	60.0	60.9	
35 Vinyl acetate	43	4.339	4.339	0.000	97	1473979	60.0	60.3	

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	4.351	4.351	0.000	96	2000964	60.0	53.5	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	99	237568	120.0	126.5	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	82	1270837	60.0	53.9	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	87	1862453	60.0	56.8	
45 Chlorobromomethane	128	5.051	5.051	0.000	94	553423	60.0	53.2	
46 Tetrahydrofuran	42	5.063	5.063	0.000	85	572186	120.0	106.7	
47 Chloroform	83	5.134	5.134	0.000	94	1933612	60.0	53.0	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	98	1718787	60.0	54.7	
49 Cyclohexane	56	5.347	5.347	0.000	88	1995738	60.0	57.5	
51 Carbon tetrachloride	117	5.419	5.419	0.000	87	1499291	60.0	58.1	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	94	1652962	60.0	61.0	
52 Isobutyl alcohol	41	5.478	5.466	0.012	94	727267	1500.0	1312.8	
54 Benzene	78	5.585	5.585	0.000	97	4704418	60.0	58.4	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	98	1510298	60.0	56.3	
56 n-Heptane	57	5.822	5.822	0.000	90	926191	60.0	59.9	
58 Trichloroethene	130	6.154	6.154	0.000	97	1238968	60.0	59.2	
60 Methylcyclohexane	83	6.355	6.355	0.000	90	2167660	60.0	61.3	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	94	1123332	60.0	59.1	
64 1,4-Dioxane	88	6.427	6.427	0.000	94	265006	1200.0	1155.5	
63 Dibromomethane	93	6.450	6.450	0.000	96	630065	60.0	54.0	
65 Dichlorobromomethane	83	6.604	6.604	0.000	99	1495430	60.0	55.2	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	93	1364196	120.0	125.2	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	95	1903637	60.0	60.8	
69 4-Methyl-2-pentanone (MIBK)	43	7.102	7.102	0.000	99	1626995	120.0	113.5	
70 Toluene	91	7.280	7.280	0.000	99	5058475	60.0	60.0	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	94	1756332	60.0	66.4	
72 Ethyl methacrylate	69	7.518	7.518	0.000	89	1185302	60.0	56.8	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	91	913602	60.0	63.5	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	973646	60.0	62.2	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	91	1689142	60.0	64.3	
76 2-Hexanone	43	7.850	7.850	0.000	94	1105003	120.0	113.6	
78 Chlorodibromomethane	129	8.016	8.016	0.000	90	1059270	60.0	63.8	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	946241	60.0	66.0	
82 Chlorobenzene	112	8.585	8.585	0.000	95	3185422	60.0	59.2	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	95	1095325	60.0	65.5	
84 Ethylbenzene	106	8.668	8.668	0.000	99	1809445	60.0	59.4	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	2258639	60.0	58.6	
86 o-Xylene	106	9.166	9.166	0.000	96	2139178	60.0	58.9	
87 Styrene	104	9.178	9.178	0.000	94	3340145	60.0	60.2	
88 Bromoform	173	9.367	9.367	0.000	97	669631	60.0	66.0	
89 Isopropylbenzene	105	9.510	9.510	0.000	96	5761851	60.0	60.5	
92 1,1,2,2-Tetrachloroethane	83	9.818	9.806	0.012	94	1089306	60.0	62.1	
93 Bromobenzene	156	9.842	9.842	0.000	96	1266885	60.0	60.3	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	79	363526	60.0	61.1	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	82	363185	60.0	63.4	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	1640788	60.0	61.0	
97 2-Chlorotoluene	126	10.020	10.020	0.000	96	1323192	60.0	60.7	
99 1,3,5-Trimethylbenzene	105	10.103	10.091	0.012	94	4840060	60.0	60.1	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	1377915	60.0	60.6	
102 tert-Butylbenzene	119	10.411	10.411	0.000	93	4191600	60.0	60.4	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	4889696	60.0	60.0	
105 sec-Butylbenzene	105	10.636	10.624	0.012	94	6323030	60.0	60.8	

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	10.755	10.755	0.000	98	2498404	60.0	59.4	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	5385019	60.0	60.7	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	2512062	60.0	59.6	
111 n-Butylbenzene	91	11.182	11.182	0.000	97	4941850	60.0	61.7	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	97	2284333	60.0	58.7	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	86	256709	60.0	62.2	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	1364569	60.0	60.3	
116 Hexachlorobutadiene	225	12.972	12.972	0.000	98	617670	60.0	60.6	
117 Naphthalene	128	13.115	13.115	0.000	97	3482116	60.0	60.6	
118 1,2,3-Trichlorobenzene	180	13.364	13.352	0.012	96	1146408	60.0	59.8	
S 134 Trihalomethanes, Total	1				0		240.0	238.0	
S 158 Total BTEX	1				0		300.0	295.4	
S 131 1,2-Dichloroethene, Total	96				0			109.1	
S 132 1,3-Dichloropropene, Total	75				0			127.2	
S 133 Xylenes, Total	106				0		120.0	117.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00382	Amount Added:	48.00	Units: uL
vmarolistdw_00389	Amount Added:	48.00	Units: uL
vmrprimw_00432	Amount Added:	48.00	Units: uL
vm50ss_00439	Amount Added:	48.00	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

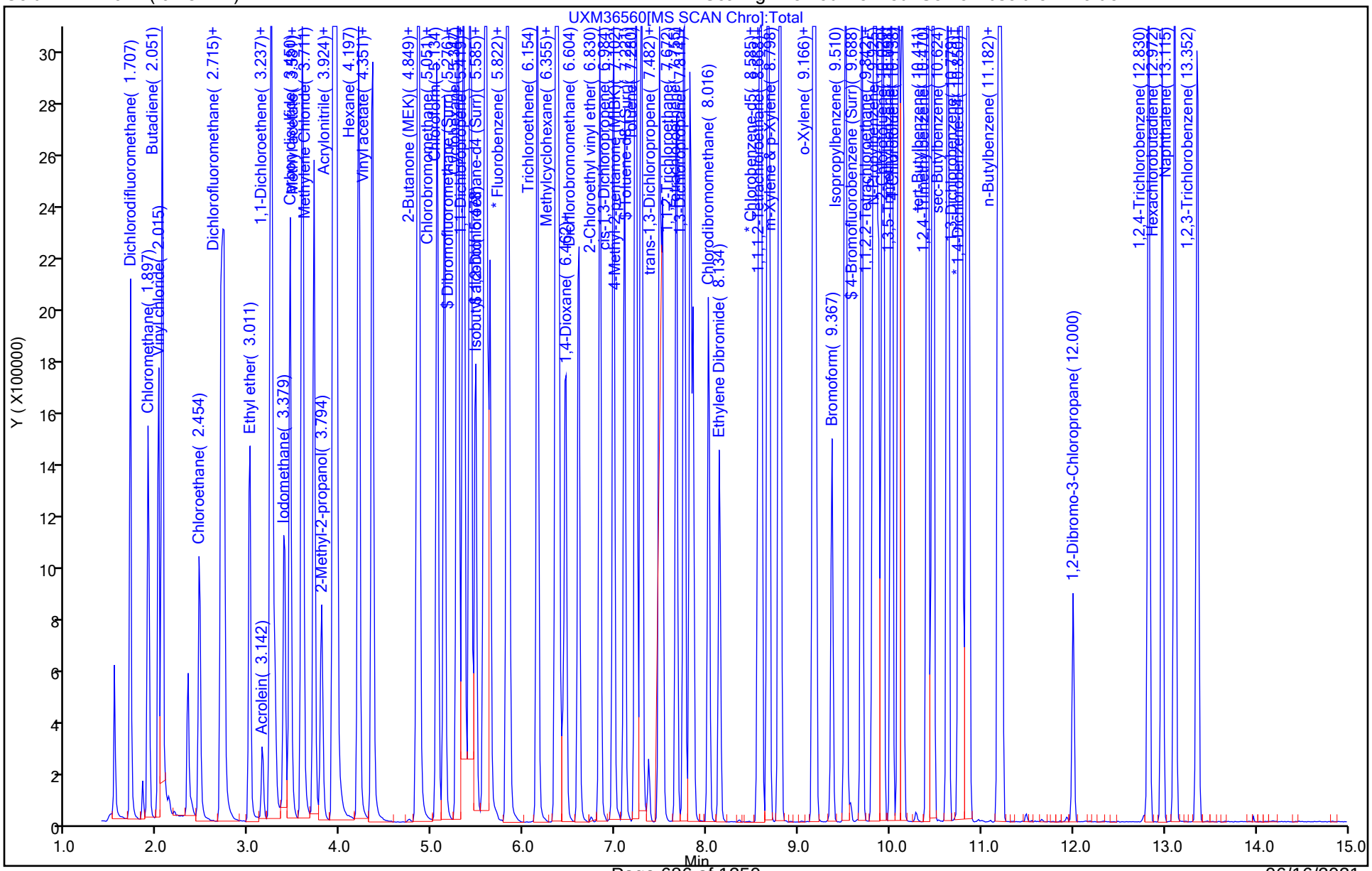
Report Date: 26-Apr-2021 08:33:40 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36560.D

Injection Date:	23-Apr-2021 12:28:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L7			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



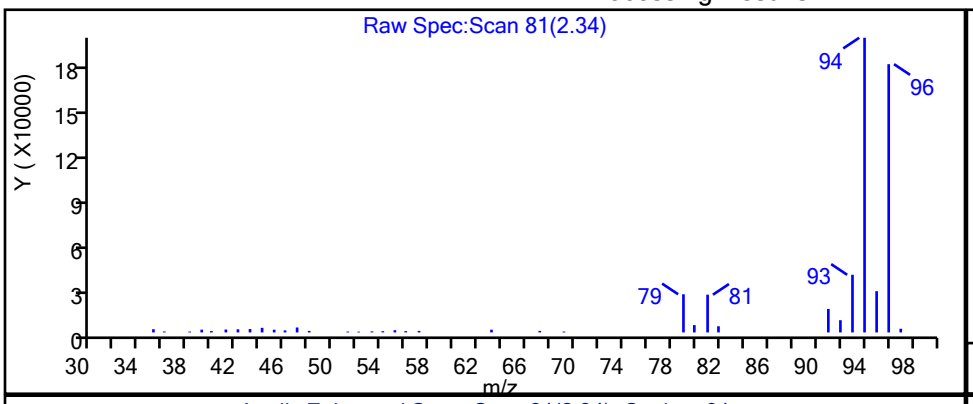
User Disabled Compound Report

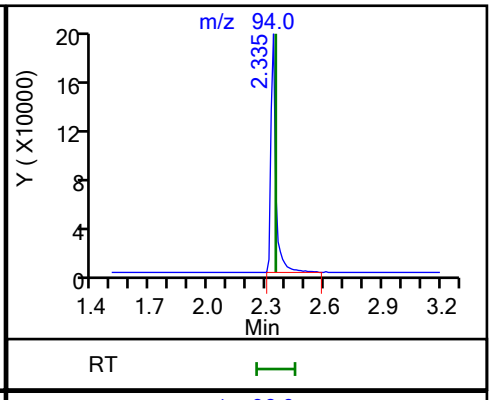
Eurofins TestAmerica, Canton

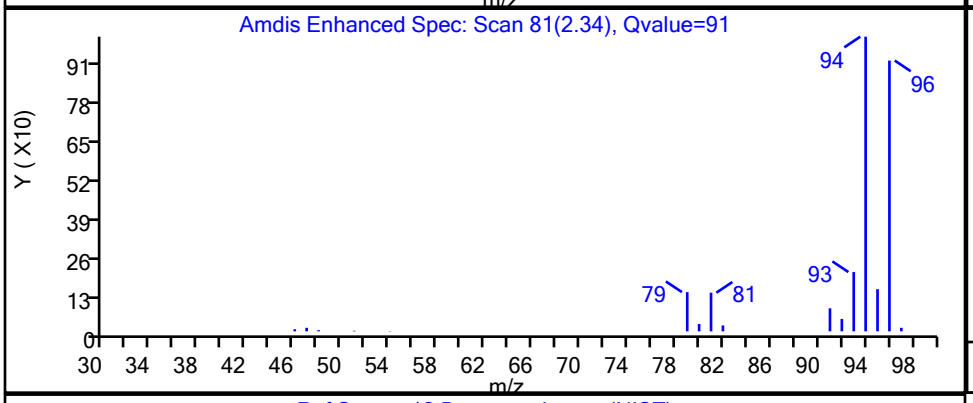
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36560.D				
Injection Date:	23-Apr-2021 12:28:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L7				
Client ID:					
Operator ID:	001765	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

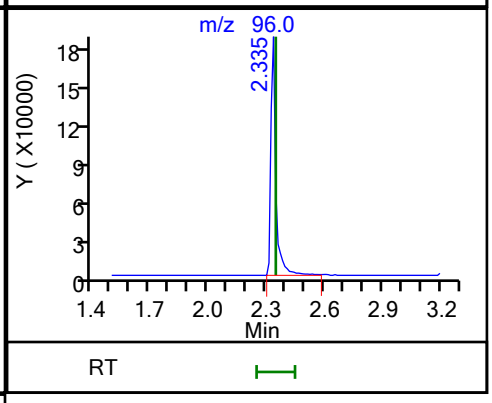
13 Bromomethane, CAS: 74-83-9

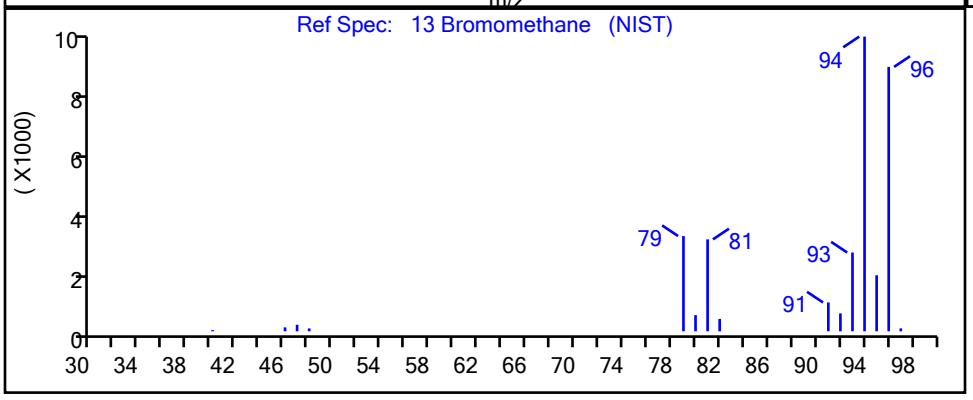
Processing Results











RT	Mass	Response	Amount
2.34	94.00	354197	42.272102
2.34	96.00	329640	

Reviewer: bosworthh, 23-Apr-2021 13:29:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36561.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Apr-2021 12:52:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-011
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:33:47 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 13:26:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	1575479	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	85	1172490	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	635127	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.265	5.264	0.001	93	708226	40.0	37.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	855419	40.0	37.9	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	2917585	40.0	40.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	86	1087162	40.0	39.6	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	986295	40.0	34.8	
10 Chloromethane	50	1.897	1.897	0.000	99	1031351	40.0	35.3	
11 Vinyl chloride	62	2.015	2.015	0.000	98	1057956	40.0	36.5	
12 Butadiene	54	2.051	2.051	0.000	98	977604	40.0	34.7	
13 Bromomethane	94		2.347				ND	ND	U
14 Chloroethane	64	2.466	2.466	0.000	100	630668	40.0	38.7	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	1365825	40.0	36.9	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	98	1181544	40.0	37.5	
17 Ethyl ether	59	3.011	3.011	0.000	89	572153	40.0	40.7	
18 Acrolein	56	3.142	3.142	0.000	99	166897	200.0	193.7	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	98	660895	40.0	37.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.248	0.001	91	561558	40.0	41.2	
21 Acetone	58	3.284	3.284	0.000	100	120532	80.0	83.7	
23 Iodomethane	142	3.391	3.391	0.000	97	903532	40.0	38.9	
24 Carbon disulfide	76	3.450	3.450	0.000	99	2140127	40.0	37.3	
27 Methyl acetate	43	3.569	3.569	0.000	97	1028384	80.0	78.8	
26 3-Chloro-1-propene	41	3.581	3.592	-0.011	90	1141607	40.0	37.4	
28 Methylene Chloride	84	3.711	3.711	0.000	91	758873	40.0	36.6	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	723769	400.0	418.6	
30 Acrylonitrile	53	3.925	3.924	0.001	99	2820675	400.0	394.2	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	94	2089784	40.0	43.1	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	99	793418	40.0	37.8	
33 Hexane	57	4.197	4.197	0.000	91	1194103	40.0	43.2	
35 Vinyl acetate	43	4.340	4.339	0.001	97	969527	40.0	40.3	

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	4.352	4.351	0.001	96	1371481	40.0	37.1	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	99	167113	80.0	90.1	
39 cis-1,2-Dichloroethene	96	4.850	4.849	0.001	81	869864	40.0	37.3	
41 2,2-Dichloropropane	77	4.850	4.849	0.001	87	1262244	40.0	39.0	
45 Chlorobromomethane	128	5.051	5.051	0.000	97	381984	40.0	37.1	
46 Tetrahydrofuran	42	5.063	5.063	0.000	85	401653	80.0	75.8	
47 Chloroform	83	5.134	5.134	0.000	94	1318579	40.0	36.6	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	99	1166383	40.0	37.6	
49 Cyclohexane	56	5.348	5.347	0.001	88	1391366	40.0	40.6	
51 Carbon tetrachloride	117	5.419	5.419	0.000	87	1016878	40.0	39.9	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	95	1127144	40.0	42.1	
52 Isobutyl alcohol	41	5.478	5.466	0.012	94	530198	1000.0	968.7	
54 Benzene	78	5.585	5.585	0.000	97	3196092	40.0	40.2	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	97	1034413	40.0	39.0	
56 n-Heptane	57	5.822	5.822	0.000	92	675481	40.0	43.2	
58 Trichloroethene	130	6.154	6.154	0.000	97	844884	40.0	40.9	
60 Methylcyclohexane	83	6.356	6.355	0.001	90	1507102	40.0	43.1	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	94	766906	40.0	40.9	
64 1,4-Dioxane	88	6.427	6.427	0.000	90	194270	800.0	857.4	
63 Dibromomethane	93	6.450	6.450	0.000	95	435944	40.0	37.9	
65 Dichlorobromomethane	83	6.605	6.604	0.001	99	1020084	40.0	38.1	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	93	942860	80.0	87.6	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	95	1293185	40.0	41.8	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.102	0.001	95	1171893	80.0	82.8	
70 Toluene	91	7.281	7.280	0.001	99	3419906	40.0	40.7	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	94	1194300	40.0	45.3	
72 Ethyl methacrylate	69	7.518	7.518	0.000	88	841290	40.0	40.5	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	91	628571	40.0	43.9	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	665975	40.0	42.7	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	90	1150782	40.0	44.0	
76 2-Hexanone	43	7.850	7.850	0.000	94	804845	80.0	83.1	
78 Chlorodibromomethane	129	8.016	8.016	0.000	90	719406	40.0	43.5	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	643259	40.0	45.1	
82 Chlorobenzene	112	8.585	8.585	0.000	95	2158356	40.0	40.3	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	95	735555	40.0	44.2	
84 Ethylbenzene	106	8.668	8.668	0.000	99	1220792	40.0	40.2	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	1532809	40.0	40.0	
86 o-Xylene	106	9.166	9.166	0.000	96	1460001	40.0	40.4	
87 Styrene	104	9.178	9.178	0.000	95	2256578	40.0	40.8	
88 Bromoform	173	9.368	9.367	0.001	97	461087	40.0	45.6	
89 Isopropylbenzene	105	9.510	9.510	0.000	96	3860053	40.0	40.7	
92 1,1,2,2-Tetrachloroethane	83	9.806	9.806	0.000	94	754279	40.0	42.9	
93 Bromobenzene	156	9.842	9.842	0.000	95	865867	40.0	41.1	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	86	258094	40.0	43.3	
95 1,2,3-Trichloropropane	110	9.878	9.877	0.001	81	253835	40.0	44.2	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	1111645	40.0	41.2	
97 2-Chlorotoluene	126	10.020	10.020	0.000	96	900313	40.0	41.2	
99 1,3,5-Trimethylbenzene	105	10.091	10.091	0.000	94	3278175	40.0	40.6	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	930696	40.0	40.8	
102 tert-Butylbenzene	119	10.411	10.411	0.000	93	2830331	40.0	40.7	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	3296449	40.0	40.4	
105 sec-Butylbenzene	105	10.625	10.624	0.001	94	4260996	40.0	40.9	

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	10.755	10.755	0.000	98	1693004	40.0	40.2	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	3660625	40.0	41.2	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	1709091	40.0	40.4	
111 n-Butylbenzene	91	11.182	11.182	0.000	97	3310304	40.0	41.2	
112 1,2-Dichlorobenzene	146	11.218	11.217	0.001	97	1564238	40.0	40.1	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	86	181905	40.0	43.9	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	937434	40.0	41.4	
116 Hexachlorobutadiene	225	12.973	12.972	0.001	97	426502	40.0	41.8	
117 Naphthalene	128	13.115	13.115	0.000	97	2424480	40.0	42.1	
118 1,2,3-Trichlorobenzene	180	13.352	13.352	0.000	96	794246	40.0	41.3	
S 134 Trihalomethanes, Total	1				0		160.0	163.8	
S 158 Total BTEX	1				0		200.0	201.4	
S 131 1,2-Dichloroethene, Total	96				0			75.1	
S 132 1,3-Dichloropropene, Total	75				0			87.1	
S 133 Xylenes, Total	106				0		80.0	80.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00382	Amount Added:	32.00	Units: uL
vmarolistdw_00389	Amount Added:	32.00	Units: uL
vmrprimw_00432	Amount Added:	32.00	Units: uL
vm50ss_00439	Amount Added:	32.00	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

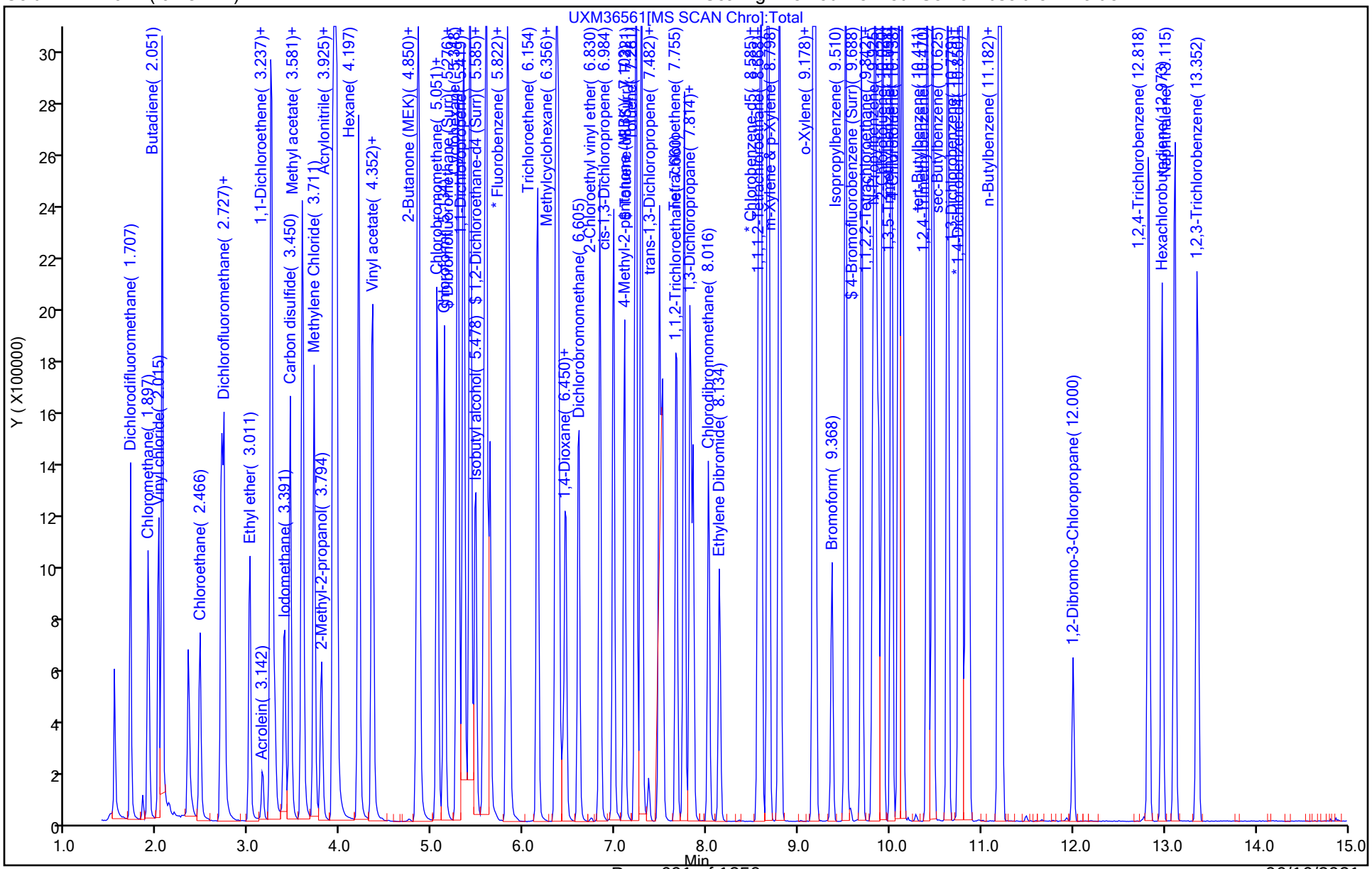
Report Date: 26-Apr-2021 08:33:49 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36561.D

Injection Date:	23-Apr-2021 12:52:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L6			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



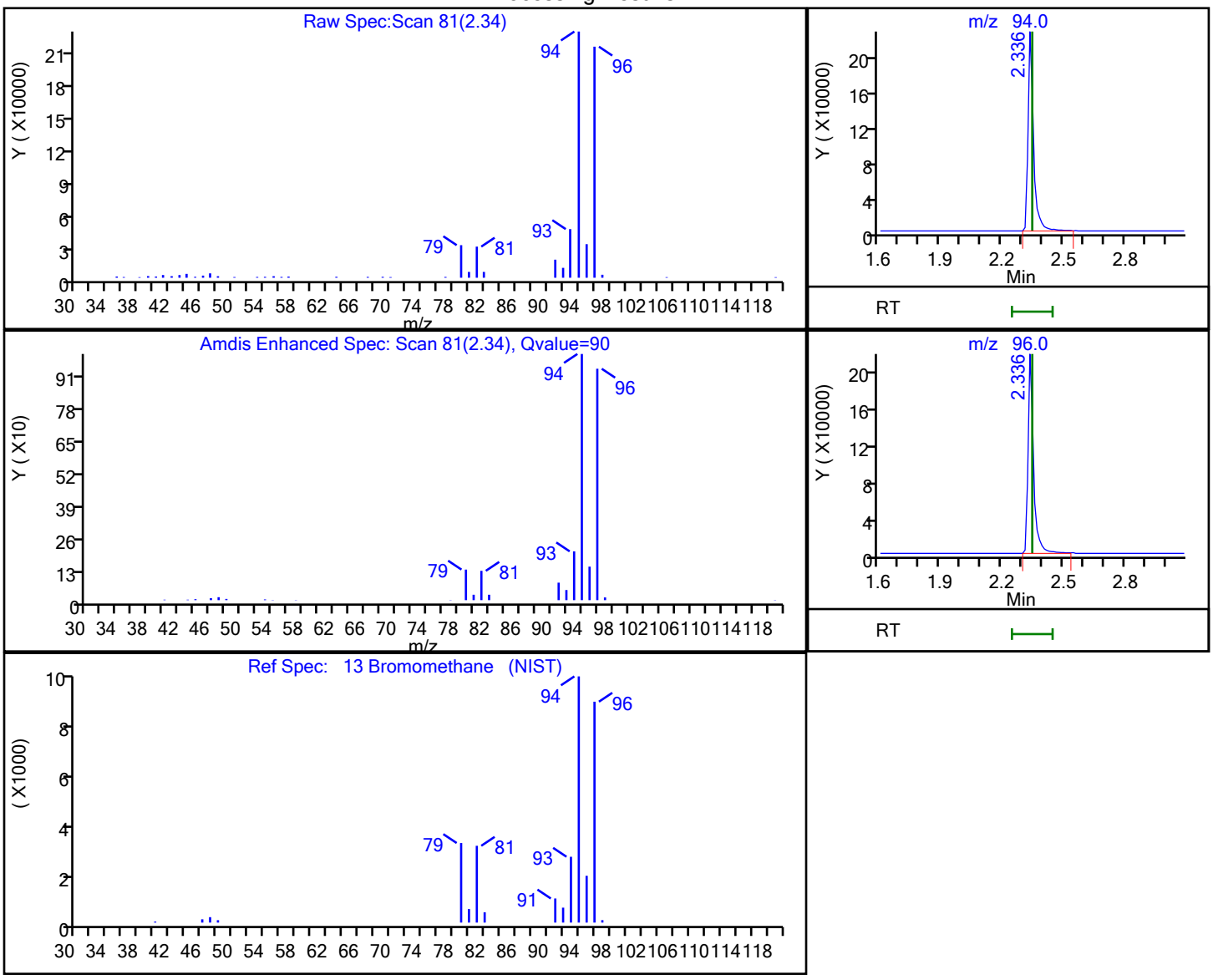
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36561.D				
Injection Date:	23-Apr-2021 12:52:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L6				
Client ID:					
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
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
2.34	94.00	428952	32.445938
2.34	96.00	402631	

Reviewer: bosworthh, 23-Apr-2021 14:55:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36562.D
Lims ID: ICIS L5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 23-Apr-2021 13:16:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-012
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:33:57 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 13:38:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.845	0.000	99	1453811	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	1138182	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	621051	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.264	5.264	0.000	94	354490	20.0	20.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	416738	20.0	20.0	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	1412859	20.0	20.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	86	530933	20.0	19.9	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	521337	20.0	19.9	
10 Chloromethane	50	1.897	1.897	0.000	99	516784	20.0	19.2	
11 Vinyl chloride	62	2.015	2.015	0.000	98	528137	20.0	19.7	
12 Butadiene	54	2.051	2.051	0.000	98	497027	20.0	19.1	
13 Bromomethane	94	2.347	2.347	0.000	90	290069	20.0	19.2	
14 Chloroethane	64	2.466	2.466	0.000	99	302707	20.0	20.2	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	673250	20.0	19.7	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	97	599691	20.0	20.6	
17 Ethyl ether	59	3.011	3.011	0.000	89	266538	20.0	20.5	
18 Acrolein	56	3.142	3.142	0.000	99	76326	100.0	96.0	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	98	314864	20.0	19.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.248	3.248	0.000	93	228650	20.0	18.2	
21 Acetone	58	3.284	3.284	0.000	100	57286	40.0	41.9	
23 Iodomethane	142	3.391	3.391	0.000	97	438172	20.0	20.4	
24 Carbon disulfide	76	3.450	3.450	0.000	99	1044507	20.0	19.7	
27 Methyl acetate	43	3.569	3.569	0.000	97	462809	40.0	38.4	
26 3-Chloro-1-propene	41	3.592	3.592	0.000	90	558975	20.0	19.8	
28 Methylene Chloride	84	3.711	3.711	0.000	92	367525	20.0	19.2	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	309438	200.0	194.0	
30 Acrylonitrile	53	3.924	3.924	0.000	99	1280837	200.0	194.0	
31 Methyl tert-butyl ether	73	3.936	3.936	0.000	94	924323	20.0	20.6	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	99	378740	20.0	19.6	
33 Hexane	57	4.197	4.197	0.000	91	432385	20.0	16.9	
35 Vinyl acetate	43	4.339	4.339	0.000	97	422523	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
34 1,1-Dichloroethane	63	4.351	4.351	0.000	96	663468	20.0	19.5	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	99	70697	40.0	41.3	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	82	417324	20.0	19.4	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	87	599623	20.0	20.1	
45 Chlorobromomethane	128	5.051	5.051	0.000	97	186898	20.0	19.7	
46 Tetrahydrofuran	42	5.063	5.063	0.000	85	176066	40.0	36.0	
47 Chloroform	83	5.134	5.134	0.000	94	641693	20.0	19.3	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	99	567341	20.0	19.8	
49 Cyclohexane	56	5.347	5.347	0.000	89	575608	20.0	18.2	
51 Carbon tetrachloride	117	5.419	5.419	0.000	89	477414	20.0	20.3	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	94	509778	20.0	20.6	
52 Isobutyl alcohol	41	5.466	5.466	0.000	94	218878	500.0	433.4	
54 Benzene	78	5.585	5.585	0.000	97	1473638	20.0	20.1	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	98	491692	20.0	20.1	
56 n-Heptane	57	5.822	5.822	0.000	89	279763	20.0	17.3	
58 Trichloroethene	130	6.154	6.154	0.000	97	387000	20.0	20.3	
60 Methylcyclohexane	83	6.355	6.355	0.000	89	584351	20.0	18.1	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	95	353789	20.0	20.4	
64 1,4-Dioxane	88	6.427	6.427	0.000	91	84760	400.0	405.4	
63 Dibromomethane	93	6.450	6.450	0.000	94	208931	20.0	19.7	
65 Dichlorobromomethane	83	6.604	6.604	0.000	99	481632	20.0	19.5	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	93	407001	40.0	41.0	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	95	588401	20.0	20.6	
69 4-Methyl-2-pentanone (MIBK)	43	7.102	7.102	0.000	96	513998	40.0	39.3	
70 Toluene	91	7.280	7.280	0.000	99	1602590	20.0	19.7	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	94	526075	20.0	20.6	
72 Ethyl methacrylate	69	7.518	7.518	0.000	89	394251	20.0	19.5	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	91	280265	20.0	20.1	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	303515	20.0	20.0	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	90	525336	20.0	20.7	
76 2-Hexanone	43	7.850	7.850	0.000	95	360081	40.0	38.3	
78 Chlorodibromomethane	129	8.016	8.016	0.000	91	324212	20.0	20.2	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	287346	20.0	20.7	
82 Chlorobenzene	112	8.585	8.585	0.000	94	1014472	20.0	19.5	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	96	329931	20.0	20.4	
84 Ethylbenzene	106	8.668	8.668	0.000	99	587535	20.0	19.9	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	98	732693	20.0	19.7	
86 o-Xylene	106	9.166	9.166	0.000	97	687726	20.0	19.6	
87 Styrene	104	9.178	9.178	0.000	94	1073705	20.0	20.0	
88 Bromoform	173	9.367	9.367	0.000	97	201839	20.0	20.6	
89 Isopropylbenzene	105	9.510	9.510	0.000	96	1847145	20.0	20.0	
92 1,1,2,2-Tetrachloroethane	83	9.806	9.806	0.000	94	347786	20.0	20.2	
93 Bromobenzene	156	9.842	9.842	0.000	95	416341	20.0	20.2	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	84	113297	20.0	19.4	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	78	111200	20.0	19.8	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	521484	20.0	19.8	
97 2-Chlorotoluene	126	10.020	10.020	0.000	96	422313	20.0	19.8	
99 1,3,5-Trimethylbenzene	105	10.091	10.091	0.000	94	1563229	20.0	19.8	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	452436	20.0	20.3	
102 tert-Butylbenzene	119	10.411	10.411	0.000	93	1352121	20.0	19.9	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	1592750	20.0	19.9	
105 sec-Butylbenzene	105	10.624	10.624	0.000	95	2026875	20.0	19.9	

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	10.755	10.755	0.000	98	813006	20.0	19.7	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1753476	20.0	20.2	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	818933	20.0	19.8	
111 n-Butylbenzene	91	11.182	11.182	0.000	97	1569935	20.0	20.0	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	97	757042	20.0	19.8	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	86	83908	20.0	20.7	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	444480	20.0	20.1	
116 Hexachlorobutadiene	225	12.972	12.972	0.000	97	197666	20.0	19.8	
117 Naphthalene	128	13.115	13.115	0.000	97	1129929	20.0	20.1	
118 1,2,3-Trichlorobenzene	180	13.352	13.352	0.000	96	373719	20.0	19.9	
S 134 Trihalomethanes, Total	1				0		80.0	79.6	
S 158 Total BTEX	1				0		100.0	98.9	
S 133 Xylenes, Total	106				0		40.0	39.3	

QC Flag Legend

Processing Flags

Reagents:

vmrgas_00382	Amount Added: 16.00	Units: uL
vmarolistdw_00389	Amount Added: 16.00	Units: uL
vmrprimw_00432	Amount Added: 16.00	Units: uL
vm50ss_00439	Amount Added: 16.00	Units: uL
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL

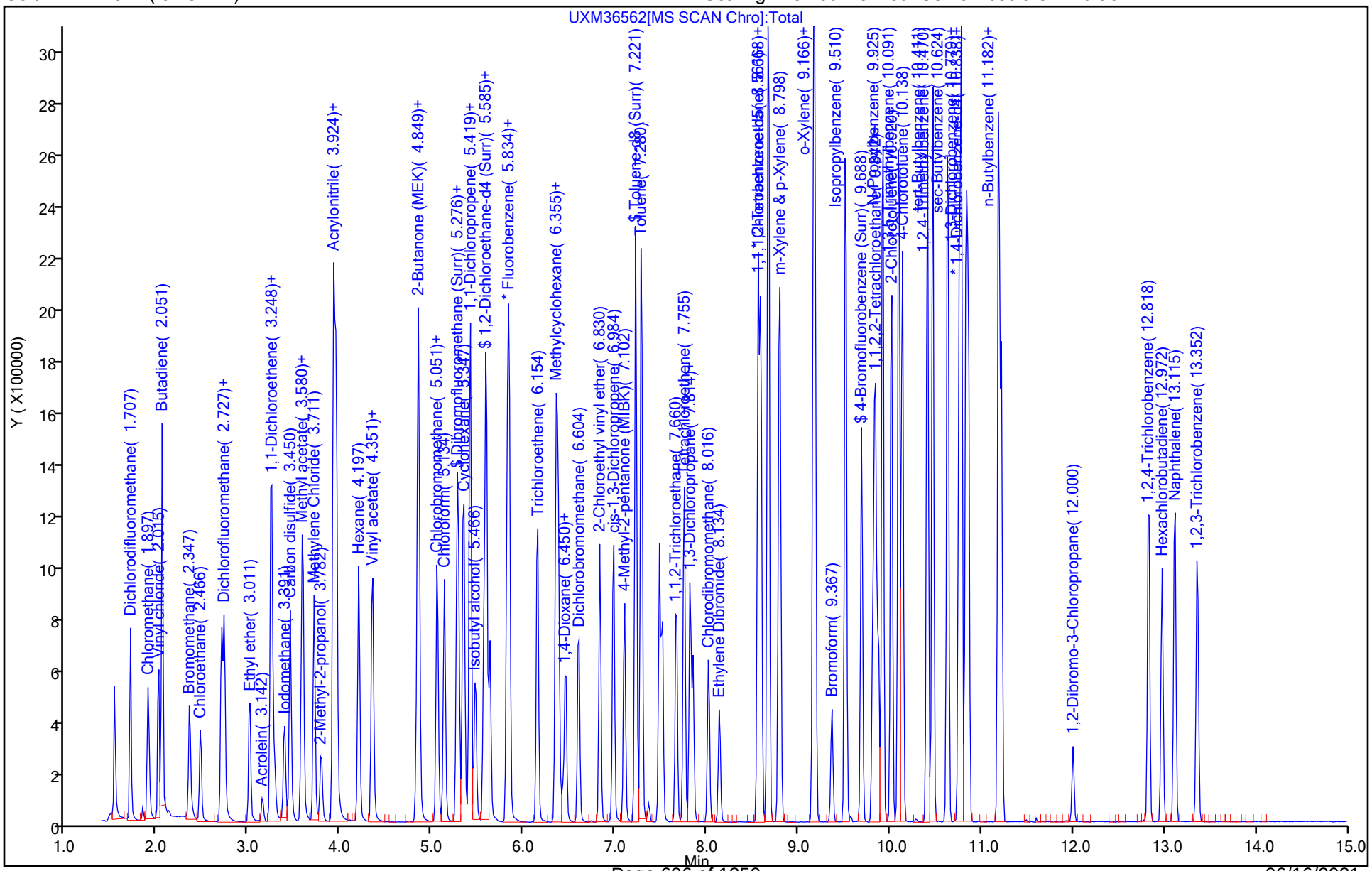
Report Date: 26-Apr-2021 08:33:59 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36562.D

Injection Date:	23-Apr-2021 13:16:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICIS L5			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\20210423-108510.b\UXM36563.D
Lims ID: std8260 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Apr-2021 13:40:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-013
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:08 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 14:17:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.845	0.001	99	1407911	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	86	1113512	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	595960	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.264	5.264	0.000	93	173107	10.0	10.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	206531	10.0	10.2	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	689182	10.0	10.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	87	257143	10.0	9.85	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	254644	10.0	10.1	
10 Chloromethane	50	1.897	1.897	0.000	100	263016	10.0	10.1	
11 Vinyl chloride	62	2.015	2.015	0.000	98	267847	10.0	10.3	
12 Butadiene	54	2.051	2.051	0.000	98	248030	10.0	9.85	
13 Bromomethane	94	2.359	2.347	0.012	90	152735	10.0	10.2	
14 Chloroethane	64	2.478	2.466	0.012	100	148494	10.0	10.2	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	332011	10.0	10.0	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	99	292728	10.0	10.4	
17 Ethyl ether	59	3.011	3.011	0.000	89	133043	10.0	10.6	
18 Acrolein	56	3.142	3.142	0.000	99	40042	50.0	52.0	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	98	158281	10.0	10.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.248	0.001	91	128614	10.0	10.6	
21 Acetone	58	3.284	3.284	0.000	100	29262	20.0	20.9	
23 Iodomethane	142	3.391	3.391	0.000	97	207946	10.0	10.0	
24 Carbon disulfide	76	3.450	3.450	0.000	99	523663	10.0	10.2	
27 Methyl acetate	43	3.569	3.569	0.000	97	238923	20.0	20.5	
26 3-Chloro-1-propene	41	3.592	3.592	0.000	90	276742	10.0	10.1	
28 Methylene Chloride	84	3.711	3.711	0.000	91	184603	10.0	9.96	
29 2-Methyl-2-propanol	59	3.782	3.794	-0.012	98	165085	100.0	106.9	
30 Acrylonitrile	53	3.924	3.924	0.000	100	664489	100.0	103.9	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	95	461885	10.0	10.7	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	99	188448	10.0	10.0	
33 Hexane	57	4.197	4.197	0.000	92	247142	10.0	10.0	
35 Vinyl acetate	43	4.340	4.339	0.001	97	195424	10.0	9.59	

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	4.351	4.351	0.000	96	328532	10.0	9.96	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	99	33818	20.0	20.4	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	82	207739	10.0	9.98	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	87	297447	10.0	10.3	
45 Chlorobromomethane	128	5.051	5.051	0.000	98	93795	10.0	10.2	
46 Tetrahydrofuran	42	5.063	5.063	0.000	86	97770	20.0	20.7	
47 Chloroform	83	5.134	5.134	0.000	94	323587	10.0	10.1	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	98	280774	10.0	10.1	
49 Cyclohexane	56	5.347	5.347	0.000	89	319119	10.0	10.4	
51 Carbon tetrachloride	117	5.419	5.419	0.000	89	239938	10.0	10.5	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	94	250312	10.0	10.5	
52 Isobutyl alcohol	41	5.466	5.466	0.000	94	115884	250.0	236.9	
54 Benzene	78	5.585	5.585	0.000	96	725305	10.0	10.2	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	98	248188	10.0	10.5	
56 n-Heptane	57	5.822	5.822	0.000	90	180723	10.0	10.2	
58 Trichloroethene	130	6.154	6.154	0.000	96	193060	10.0	10.4	
60 Methylcyclohexane	83	6.355	6.355	0.000	90	326060	10.0	10.4	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	93	172735	10.0	10.3	
64 1,4-Dioxane	88	6.427	6.427	0.000	92	43100	200.0	212.9	
63 Dibromomethane	93	6.450	6.450	0.000	95	104904	10.0	10.2	
65 Dichlorobromomethane	83	6.604	6.604	0.000	99	241373	10.0	10.1	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	93	203564	20.0	21.2	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	95	286830	10.0	10.4	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.102	0.001	95	264982	20.0	20.9	
70 Toluene	91	7.280	7.280	0.000	98	800365	10.0	10.0	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	94	257488	10.0	10.3	
72 Ethyl methacrylate	69	7.518	7.518	0.000	88	203244	10.0	10.3	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	91	138281	10.0	10.2	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	153170	10.0	10.3	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	90	260529	10.0	10.5	
76 2-Hexanone	43	7.850	7.850	0.000	94	191609	20.0	20.8	
78 Chlorodibromomethane	129	8.016	8.016	0.000	91	157565	10.0	10.0	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	143933	10.0	10.6	
82 Chlorobenzene	112	8.597	8.585	0.012	98	516913	10.0	10.2	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	95	160763	10.0	10.2	
84 Ethylbenzene	106	8.668	8.668	0.000	99	288952	10.0	10.0	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	369677	10.0	10.1	
86 o-Xylene	106	9.166	9.166	0.000	97	350387	10.0	10.2	
87 Styrene	104	9.178	9.178	0.000	94	531972	10.0	10.1	
88 Bromoform	173	9.368	9.367	0.001	96	97882	10.0	10.2	
89 Isopropylbenzene	105	9.510	9.510	0.000	96	911890	10.0	10.1	
92 1,1,2,2-Tetrachloroethane	83	9.806	9.806	0.000	95	169732	10.0	10.3	
93 Bromobenzene	156	9.842	9.842	0.000	95	204220	10.0	10.3	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	85	58039	10.0	10.4	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	81	57381	10.0	10.6	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	259411	10.0	10.2	
97 2-Chlorotoluene	126	10.020	10.020	0.000	97	212531	10.0	10.4	
99 1,3,5-Trimethylbenzene	105	10.091	10.091	0.000	94	781718	10.0	10.3	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	221271	10.0	10.3	
102 tert-Butylbenzene	119	10.411	10.411	0.000	93	668122	10.0	10.2	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	789125	10.0	10.3	
105 sec-Butylbenzene	105	10.625	10.624	0.000	95	1000010	10.0	10.2	

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	10.755	10.755	0.000	97	403771	10.0	10.2	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	870228	10.0	10.4	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	410444	10.0	10.3	
111 n-Butylbenzene	91	11.182	11.182	0.000	97	781965	10.0	10.4	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	381974	10.0	10.4	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	85	42932	10.0	11.1	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	95	219931	10.0	10.3	
116 Hexachlorobutadiene	225	12.972	12.972	0.000	97	100050	10.0	10.4	
117 Naphthalene	128	13.115	13.115	0.000	97	577841	10.0	10.7	
118 1,2,3-Trichlorobenzene	180	13.364	13.352	0.012	95	190066	10.0	10.5	
S 134 Trihalomethanes, Total	1				0		40.0	40.4	
S 158 Total BTEX	1				0		50.0	50.6	
S 131 1,2-Dichloroethene, Total	96				0			20.0	
S 132 1,3-Dichloropropene, Total	75				0			20.7	
S 133 Xylenes, Total	106				0		20.0	20.4	

QC Flag Legend

Processing Flags

Reagents:

vmrgas_00382	Amount Added:	8.00	Units: uL
vmarolistdw_00389	Amount Added:	8.00	Units: uL
vmrprimw_00432	Amount Added:	8.00	Units: uL
vm50ss_00439	Amount Added:	8.00	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

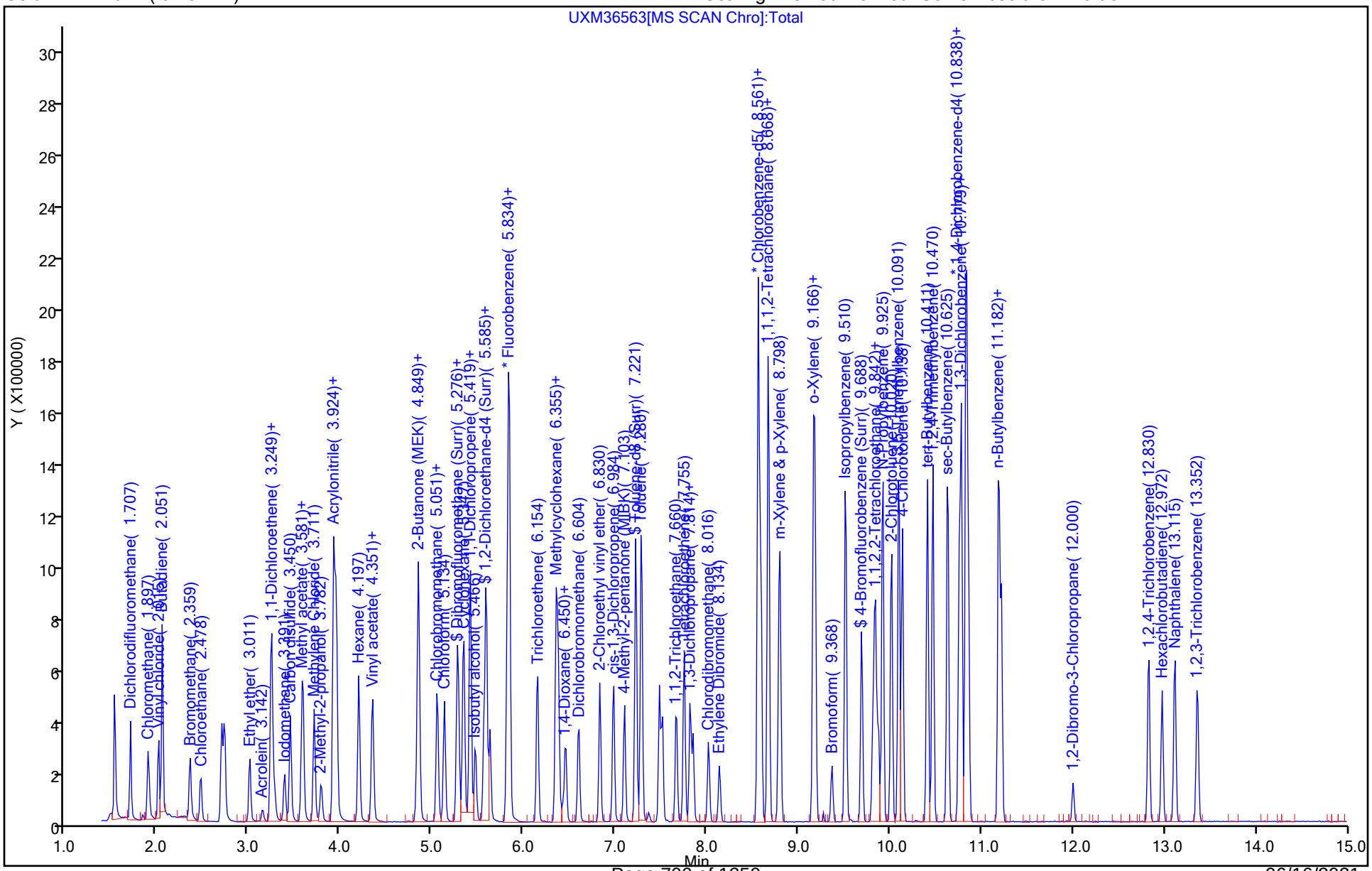
Report Date: 26-Apr-2021 08:34:09 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36563.D

Injection Date:	23-Apr-2021 13:40:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L4			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\20210423-108510.b\UXM36564.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Apr-2021 14:04:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-014
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:17 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 14:21:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.845	0.001	99	1285831	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	86	1036972	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	561078	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.265	5.264	0.001	93	85262	5.00	5.46	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	101326	5.00	5.50	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	339137	5.00	5.36	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	89	130869	5.00	5.38	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	124485	5.00	5.38	
10 Chloromethane	50	1.897	1.897	0.000	99	131139	5.00	5.50	
11 Vinyl chloride	62	2.015	2.015	0.000	98	131472	5.00	5.55	
12 Butadiene	54	2.051	2.051	0.000	98	123470	5.00	5.37	
13 Bromomethane	94	2.359	2.347	0.012	90	77394	5.00	5.48	
14 Chloroethane	64	2.478	2.466	0.012	100	69524	5.00	5.23	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	161927	5.00	5.36	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	98	140019	5.00	5.44	
17 Ethyl ether	59	3.011	3.011	0.000	91	61706	5.00	5.38	
18 Acrolein	56	3.154	3.142	0.012	97	19008	25.0	27.0	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	98	80095	5.00	5.61	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.248	0.001	92	64382	5.00	5.79	
21 Acetone	58	3.284	3.284	0.000	99	14891	10.0	10.5	
23 Iodomethane	142	3.391	3.391	0.000	97	99622	5.00	5.25	
24 Carbon disulfide	76	3.450	3.450	0.000	99	261190	5.00	5.58	
27 Methyl acetate	43	3.569	3.569	0.000	97	111187	10.0	10.4	
26 3-Chloro-1-propene	41	3.592	3.592	0.000	89	139897	5.00	5.61	
28 Methylene Chloride	84	3.711	3.711	0.000	92	92507	5.00	5.46	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	73438	50.0	52.0	
30 Acrylonitrile	53	3.925	3.924	0.001	98	305445	50.0	52.3	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	96	211246	5.00	5.33	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	98	95348	5.00	5.57	
33 Hexane	57	4.197	4.197	0.000	92	117310	5.00	5.20	
35 Vinyl acetate	43	4.340	4.339	0.001	97	77689	5.00	4.53	

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	4.351	4.351	0.000	97	166953	5.00	5.54	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	99	14532	10.0	9.60	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	82	100880	5.00	5.31	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	87	143169	5.00	5.42	
45 Chlorobromomethane	128	5.051	5.051	0.000	99	45439	5.00	5.41	
46 Tetrahydrofuran	42	5.063	5.063	0.000	86	44420	10.0	10.3	
47 Chloroform	83	5.134	5.134	0.000	95	161649	5.00	5.50	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	99	139010	5.00	5.49	
49 Cyclohexane	56	5.348	5.347	0.001	88	159570	5.00	5.70	
51 Carbon tetrachloride	117	5.419	5.419	0.000	90	115116	5.00	5.54	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	95	117502	5.00	5.38	
52 Isobutyl alcohol	41	5.478	5.466	0.012	94	53023	125.0	118.7	
54 Benzene	78	5.585	5.585	0.000	97	347008	5.00	5.34	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	98	122297	5.00	5.65	
56 n-Heptane	57	5.822	5.822	0.000	89	108563	5.00	5.41	
58 Trichloroethene	130	6.154	6.154	0.000	97	91508	5.00	5.42	
60 Methylcyclohexane	83	6.356	6.355	0.001	91	153952	5.00	5.40	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	95	81893	5.00	5.35	
64 1,4-Dioxane	88	6.427	6.427	0.000	92	19790	100.0	107.0	
63 Dibromomethane	93	6.450	6.450	0.000	95	50215	5.00	5.34	
65 Dichlorobromomethane	83	6.605	6.604	0.001	99	120385	5.00	5.51	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	92	92465	10.0	10.5	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	94	132008	5.00	5.23	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.102	0.001	96	121526	10.0	10.5	
70 Toluene	91	7.280	7.280	0.000	98	393678	5.00	5.30	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	90	118531	5.00	5.08	
72 Ethyl methacrylate	69	7.518	7.518	0.000	89	91928	5.00	5.00	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	89	65237	5.00	5.15	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	72881	5.00	5.28	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	89	118210	5.00	5.11	
76 2-Hexanone	43	7.850	7.850	0.000	95	92697	10.0	10.8	
78 Chlorodibromomethane	129	8.016	8.016	0.000	90	73945	5.00	5.05	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	64671	5.00	5.12	
82 Chlorobenzene	112	8.585	8.585	0.000	96	252747	5.00	5.33	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	95	75635	5.00	5.14	
84 Ethylbenzene	106	8.680	8.668	0.012	98	143301	5.00	5.34	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	180961	5.00	5.33	
86 o-Xylene	106	9.166	9.166	0.000	96	171869	5.00	5.37	
87 Styrene	104	9.178	9.178	0.000	94	254627	5.00	5.21	
88 Bromoform	173	9.368	9.367	0.001	96	44655	5.00	5.00	
89 Isopropylbenzene	105	9.510	9.510	0.000	95	452123	5.00	5.39	
92 1,1,2,2-Tetrachloroethane	83	9.806	9.806	0.000	95	79608	5.00	5.13	
93 Bromobenzene	156	9.842	9.842	0.000	96	101111	5.00	5.44	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	70	27408	5.00	5.20	
95 1,2,3-Trichloropropane	110	9.878	9.877	0.001	82	25789	5.00	5.08	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	127087	5.00	5.33	
97 2-Chlorotoluene	126	10.020	10.020	0.000	96	105569	5.00	5.47	
99 1,3,5-Trimethylbenzene	105	10.091	10.091	0.000	94	391874	5.00	5.50	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	109456	5.00	5.43	
102 tert-Butylbenzene	119	10.411	10.411	0.000	93	328982	5.00	5.35	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	385275	5.00	5.34	
105 sec-Butylbenzene	105	10.625	10.624	0.001	94	491929	5.00	5.34	

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	10.755	10.755	0.000	97	203505	5.00	5.47	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	424655	5.00	5.41	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	199899	5.00	5.35	
111 n-Butylbenzene	91	11.182	11.182	0.000	98	382172	5.00	5.39	
112 1,2-Dichlorobenzene	146	11.218	11.217	0.001	98	185101	5.00	5.37	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	85	19343	5.00	5.29	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	93	105989	5.00	5.29	
116 Hexachlorobutadiene	225	12.973	12.972	0.001	98	48606	5.00	5.39	
117 Naphthalene	128	13.115	13.115	0.000	97	267630	5.00	5.26	
118 1,2,3-Trichlorobenzene	180	13.352	13.352	0.000	94	87985	5.00	5.18	
S 134 Trihalomethanes, Total	1				0		20.0	21.1	
S 158 Total BTEX	1				0		25.0	26.7	
S 131 1,2-Dichloroethene, Total	96				0			10.9	
S 132 1,3-Dichloropropene, Total	75				0			10.3	
S 133 Xylenes, Total	106				0		10.0	10.7	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL
vmrprimw_00432	Amount Added:	4.00	Units: uL
vmarolistdw_00389	Amount Added:	4.00	Units: uL
vmrgas_00382	Amount Added:	4.00	Units: uL
vm50ss_00439	Amount Added:	4.00	Units: uL

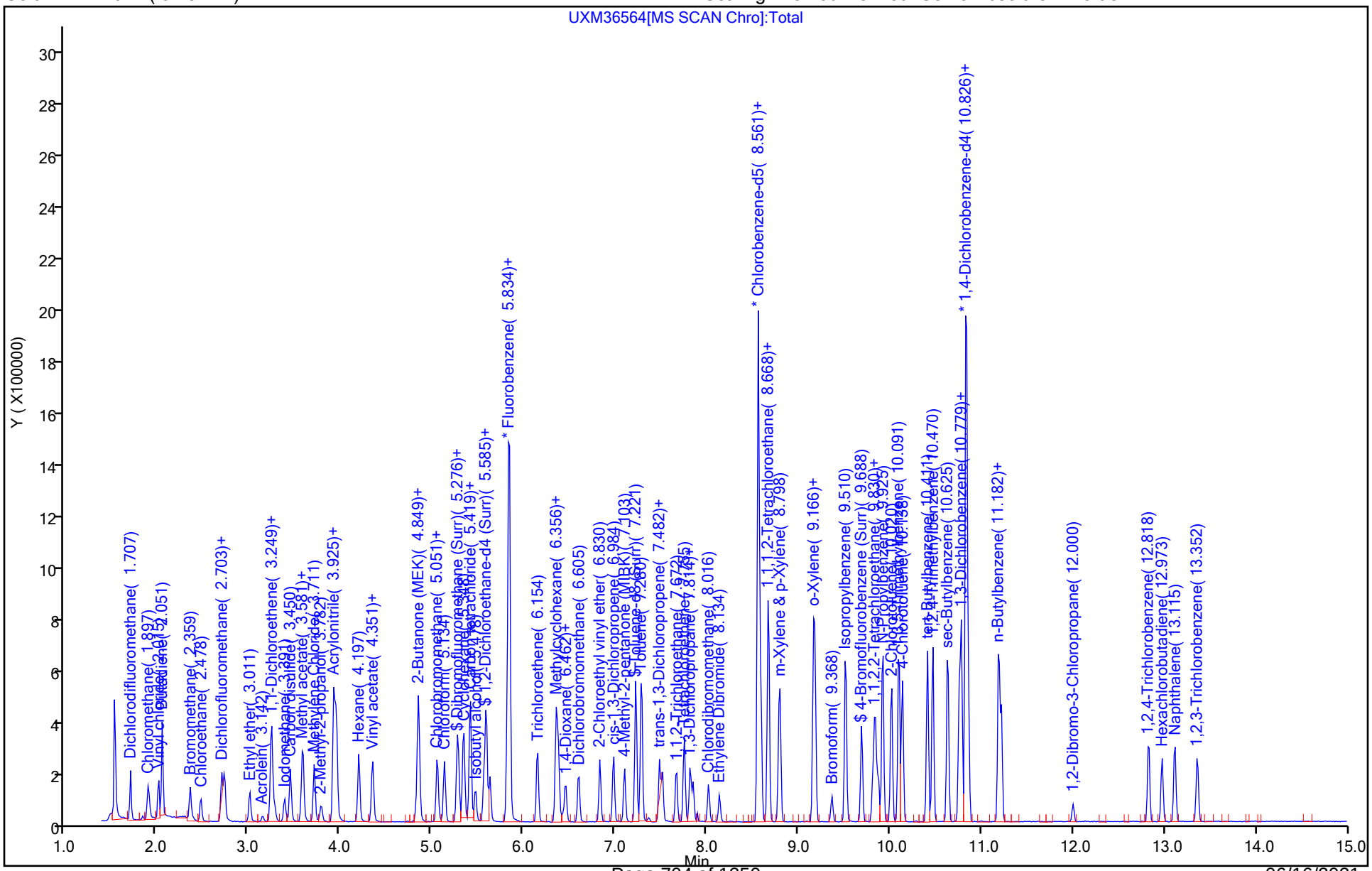
Report Date: 26-Apr-2021 08:34:19 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36564.D

Injection Date:	23-Apr-2021 14:04:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L3			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



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36565.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Apr-2021 14:28:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-015
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:27 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 14:52:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.845	0.001	99	1133064	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	962589	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	537741	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.265	5.264	0.001	92	15176	1.00	1.10	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	16733	1.00	1.03	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	54747	1.00	0.9329	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	86	23238	1.00	1.03	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	23218	1.00	1.14	
10 Chloromethane	50	1.897	1.897	0.000	98	25267	1.00	1.20	
11 Vinyl chloride	62	2.015	2.015	0.000	98	22592	1.00	1.08	
12 Butadiene	54	2.051	2.051	0.000	97	23486	1.00	1.16	
13 Bromomethane	94	2.359	2.347	0.012	90	18466	1.00	1.14	
14 Chloroethane	64	2.478	2.466	0.012	98	12787	1.00	1.09	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	30081	1.00	1.13	
16 Trichlorofluoromethane	101	2.739	2.727	0.012	98	24040	1.00	1.06	
17 Ethyl ether	59	3.011	3.011	0.000	86	9785	1.00	0.9675	
18 Acrolein	56	3.154	3.142	0.012	91	3319	5.00	5.36	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	96	12685	1.00	1.01	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.248	0.001	92	9678	1.00	0.9870	
21 Acetone	58	3.284	3.284	0.000	100	4247	2.00	1.72	
23 Iodomethane	142	3.391	3.391	0.000	97	19491	1.00	1.17	
24 Carbon disulfide	76	3.450	3.450	0.000	100	45821	1.00	1.11	
27 Methyl acetate	43	3.581	3.569	0.012	97	20407	2.00	2.17	
26 3-Chloro-1-propene	41	3.592	3.592	0.000	88	25509	1.00	1.16	
28 Methylene Chloride	84	3.711	3.711	0.000	92	16215	1.00	1.09	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	97	12719	10.0	10.2	
30 Acrylonitrile	53	3.925	3.924	0.001	99	53687	10.0	10.4	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	96	29667	1.00	0.8501	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	97	15467	1.00	1.02	
33 Hexane	57	4.197	4.197	0.000	87	19699	1.00	0.99	
35 Vinyl acetate	43	4.340	4.339	0.001	53	8934	1.00	1.14	

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	4.351	4.351	0.000	94	29277	1.00	1.10	
40 2-Butanone (MEK)	72	4.838	4.826	0.012	99	1825	2.00	1.37	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	83	18944	1.00	1.13	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	90	23655	1.00	1.02	
45 Chlorobromomethane	128	5.051	5.051	0.000	96	8629	1.00	1.17	
46 Tetrahydrofuran	42	5.063	5.063	0.000	86	8899	2.00	2.34	
47 Chloroform	83	5.134	5.134	0.000	95	29860	1.00	1.15	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	97	23594	1.00	1.06	
49 Cyclohexane	56	5.348	5.347	0.001	88	24144	1.00	0.9788	
51 Carbon tetrachloride	117	5.419	5.419	0.000	92	18014	1.00	0.9830	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	93	17307	1.00	0.8986	
52 Isobutyl alcohol	41	5.466	5.466	0.000	89	14075	25.0	35.8	
54 Benzene	78	5.585	5.585	0.000	97	56037	1.00	0.9789	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	97	19627	1.00	1.03	
56 n-Heptane	57	5.834	5.822	0.012	91	49864	1.00	0.9663	
58 Trichloroethene	130	6.154	6.154	0.000	96	14137	1.00	0.9505	
60 Methylcyclohexane	83	6.356	6.355	0.001	90	23099	1.00	0.9188	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	94	13133	1.00	0.9732	
64 1,4-Dioxane	88	6.427	6.427	0.000	88	2633	20.0	16.2	
63 Dibromomethane	93	6.450	6.450	0.000	93	9051	1.00	1.09	
65 Dichlorobromomethane	83	6.605	6.604	0.001	98	19896	1.00	1.03	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	93	12064	2.00	1.56	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	94	19993	1.00	0.8993	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.102	0.001	94	18753	2.00	1.84	
70 Toluene	91	7.280	7.280	0.000	98	66231	1.00	0.9608	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	96	18104	1.00	0.8366	
72 Ethyl methacrylate	69	7.518	7.518	0.000	87	18212	1.00	1.07	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	85	9762	1.00	0.8298	
75 Tetrachloroethene	164	7.755	7.755	0.000	92	12179	1.00	0.9510	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	87	17833	1.00	0.8300	
76 2-Hexanone	43	7.850	7.850	0.000	93	14773	2.00	1.86	
78 Chlorodibromomethane	129	8.016	8.016	0.000	85	12319	1.00	0.9070	
80 Ethylene Dibromide	107	8.134	8.134	0.000	99	9680	1.00	0.8261	
82 Chlorobenzene	112	8.597	8.585	0.012	96	44323	1.00	1.01	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	92	11657	1.00	0.8526	
84 Ethylbenzene	106	8.680	8.668	0.012	99	23957	1.00	0.9616	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	30608	1.00	0.9719	
86 o-Xylene	106	9.166	9.166	0.000	96	29743	1.00	1.00	
87 Styrene	104	9.178	9.178	0.000	94	44392	1.00	0.9778	
88 Bromoform	173	9.368	9.367	0.001	93	6885	1.00	0.8302	
89 Isopropylbenzene	105	9.510	9.510	0.000	95	74680	1.00	0.9585	
92 1,1,2,2-Tetrachloroethane	83	9.818	9.806	0.012	93	12576	1.00	0.8448	
93 Bromobenzene	156	9.842	9.842	0.000	94	16470	1.00	0.9242	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	79	4269	1.00	0.8455	
95 1,2,3-Trichloropropane	110	9.878	9.877	0.001	81	3883	1.00	0.7984	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	22106	1.00	0.9677	
97 2-Chlorotoluene	126	10.020	10.020	0.000	96	18162	1.00	0.9812	
99 1,3,5-Trimethylbenzene	105	10.091	10.091	0.000	95	64863	1.00	0.9493	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	18685	1.00	0.9680	
102 tert-Butylbenzene	119	10.411	10.411	0.000	93	56751	1.00	0.9637	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	67267	1.00	0.9728	
105 sec-Butylbenzene	105	10.636	10.624	0.012	94	85407	1.00	0.9672	

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	10.755	10.755	0.000	97	35807	1.00	1.00	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	98	71910	1.00	0.9557	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	94	35098	1.00	0.9805	
111 n-Butylbenzene	91	11.182	11.182	0.000	98	63805	1.00	0.9385	
112 1,2-Dichlorobenzene	146	11.218	11.217	0.001	96	32551	1.00	0.9853	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	82	3317	1.00	0.9464	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	93	18493	1.00	0.9637	
116 Hexachlorobutadiene	225	12.973	12.972	0.001	93	8126	1.00	0.9402	
117 Naphthalene	128	13.115	13.115	0.000	97	44555	1.00	0.9139	
118 1,2,3-Trichlorobenzene	180	13.352	13.352	0.000	94	16145	1.00	0.99	
S 134 Trihalomethanes, Total	1				0		4.00	3.92	
S 158 Total BTEX	1				0		5.00	4.88	
S 131 1,2-Dichloroethene, Total	96				0			2.16	
S 132 1,3-Dichloropropene, Total	75				0			1.74	
S 133 Xylenes, Total	106				0		2.00	1.97	

QC Flag Legend

Processing Flags

Reagents:

vmrgas_00382	Amount Added:	0.80	Units: uL
vmarolistdw_00389	Amount Added:	0.80	Units: uL
vmrprimw_00432	Amount Added:	0.80	Units: uL
vm50ss_00439	Amount Added:	0.80	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

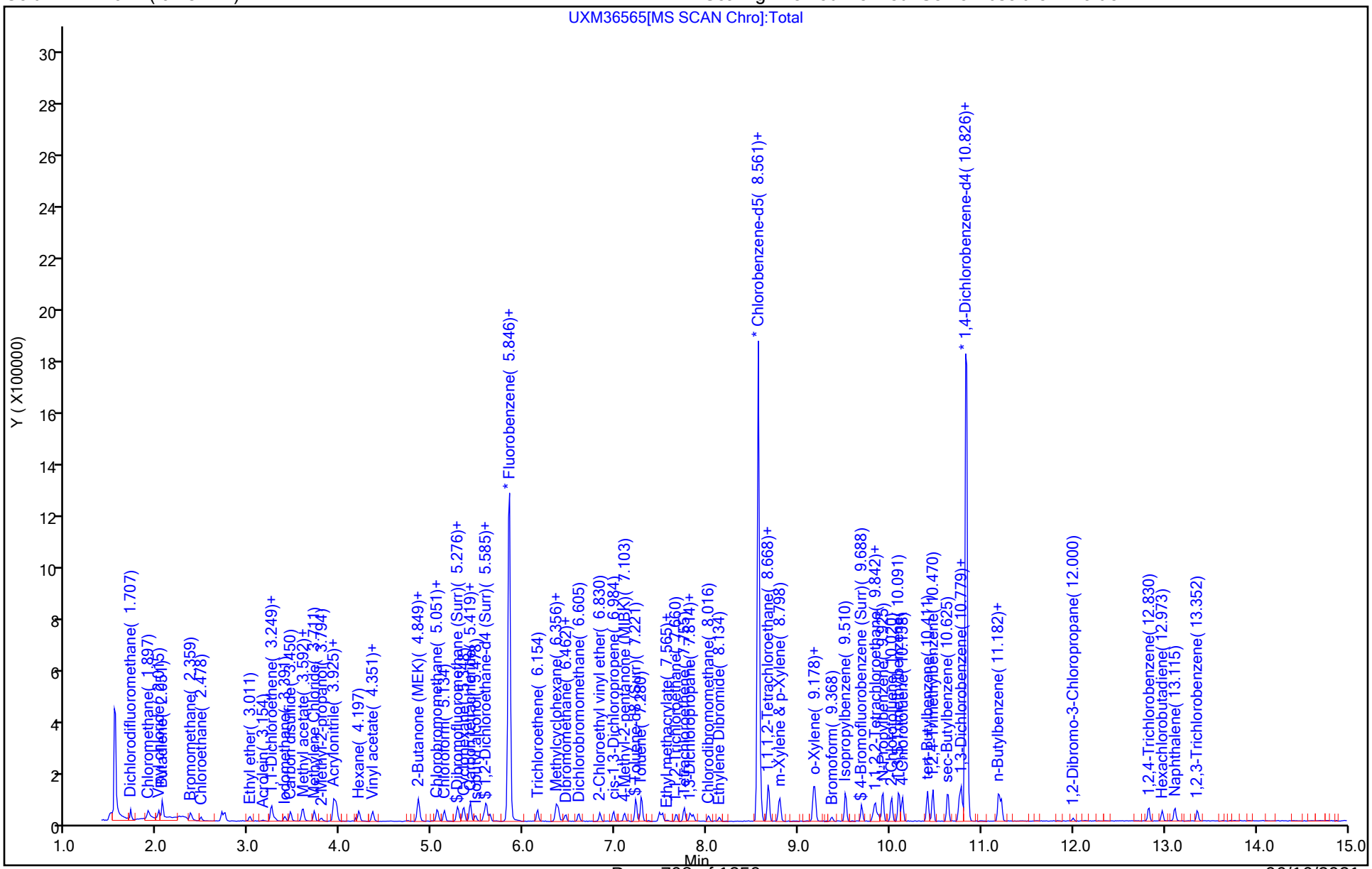
Report Date: 26-Apr-2021 08:34:28 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36565.D

Injection Date:	23-Apr-2021 14:28:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L2			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



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Apr-2021 14:53:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-016
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:35 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 15:26:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.845	0.000	99	1103126	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	86	954643	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	526359	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.264	0.012	89	7223	0.5000	0.5395	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	8371	0.5000	0.5296	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	27159	0.5000	0.4667	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	84	10982	0.5000	0.4907	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	11341	0.5000	0.5717	
10 Chloromethane	50		1.897				ND	ND	U
11 Vinyl chloride	62	2.015	2.015	0.000	96	11420	0.5000	0.5622	
12 Butadiene	54	2.051	2.051	0.000	94	12352	0.5000	0.6261	
13 Bromomethane	94	2.359	2.347	0.012	90	9501	0.5000	0.3861	
14 Chloroethane	64	2.478	2.466	0.012	96	5618	0.5000	0.4929	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	96	14721	0.5000	0.5684	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	94	10912	0.5000	0.4944	
17 Ethyl ether	59	3.011	3.011	0.000	91	4633	0.5000	0.4705	
18 Acrolein	56	3.142	3.142	0.000	40	1531	2.50	2.54	
19 1,1-Dichloroethene	96	3.248	3.237	0.011	97	7231	0.5000	0.5900	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.248	3.248	0.000	65	4774	0.5000	0.5001	
21 Acetone	58		3.284				ND	ND	U
23 Iodomethane	142		3.391				ND	ND	U
24 Carbon disulfide	76	3.450	3.450	0.000	99	21850	0.5000	0.5443	
27 Methyl acetate	43		3.569				ND	ND	U
26 3-Chloro-1-propene	41		3.592				ND	ND	U
28 Methylene Chloride	84	3.711	3.711	0.000	89	8927	0.5000	0.6147	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	96	5433	5.00	4.49	
30 Acrylonitrile	53	3.924	3.924	0.000	99	26080	5.00	5.21	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	96	13713	0.5000	0.4036	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	97	8230	0.5000	0.5600	
33 Hexane	57	4.197	4.197	0.000	88	9837	0.5000	0.5078	
35 Vinyl acetate	43		4.339				ND	ND	U

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	4.351	4.351	0.000	94	14658	0.5000	0.5670	
40 2-Butanone (MEK)	72		4.826				ND	ND	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	82	9400	0.5000	0.5762	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	87	11626	0.5000	0.5128	
45 Chlorobromomethane	128	5.051	5.051	0.000	95	3884	0.5000	0.5392	
46 Tetrahydrofuran	42	5.063	5.063	0.000	72	4033	1.00	1.09	
47 Chloroform	83	5.134	5.134	0.000	93	14209	0.5000	0.5634	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	97	11951	0.5000	0.5497	
49 Cyclohexane	56	5.347	5.347	0.000	90	12320	0.5000	0.5130	
51 Carbon tetrachloride	117	5.419	5.419	-0.001	92	8385	0.5000	0.4700	
50 1,1-Dichloropropene	75	5.419	5.419	-0.001	92	8382	0.5000	0.4470	
52 Isobutyl alcohol	41		5.466				ND	ND	U
54 Benzene	78	5.596	5.585	0.011	97	27960	0.5000	0.5017	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	95	8791	0.5000	0.4738	
56 n-Heptane	57		5.822				ND	ND	U
58 Trichloroethene	130	6.154	6.154	0.000	94	6804	0.5000	0.4699	
60 Methylcyclohexane	83	6.355	6.355	0.000	85	11565	0.5000	0.4725	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	90	6169	0.5000	0.4696	
64 1,4-Dioxane	88		6.427				ND	ND	
63 Dibromomethane	93	6.450	6.450	0.000	95	4450	0.5000	0.5518	
65 Dichlorobromomethane	83	6.593	6.604	-0.012	95	10363	0.5000	0.5528	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	90	6507	1.00	0.8635	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	93	9979	0.5000	0.4611	
69 4-Methyl-2-pentanone (MIBK)	43		7.102				ND	ND	U
70 Toluene	91	7.280	7.280	0.000	97	34328	0.5000	0.5021	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	91	8138	0.5000	0.3792	
72 Ethyl methacrylate	69	7.517	7.518	-0.001	81	8505	0.5000	0.5028	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	80	5292	0.5000	0.4536	
75 Tetrachloroethene	164	7.755	7.755	0.000	92	5456	0.5000	0.4296	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	85	8962	0.5000	0.4206	
76 2-Hexanone	43		7.850				ND	ND	U
78 Chlorodibromomethane	129	8.016	8.016	0.000	85	5802	0.5000	0.4308	
80 Ethylene Dibromide	107	8.134	8.134	0.000	92	4254	0.5000	0.3661	
82 Chlorobenzene	112	8.585	8.585	0.000	96	21561	0.5000	0.4944	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	85	5522	0.5000	0.4072	
84 Ethylbenzene	106	8.668	8.668	0.000	98	12506	0.5000	0.5062	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	98	16143	0.5000	0.5169	
86 o-Xylene	106	9.166	9.166	0.000	97	14382	0.5000	0.4885	
87 Styrene	104	9.178	9.178	0.000	94	21725	0.5000	0.4825	
88 Bromoform	173	9.367	9.367	0.000	88	3061	0.5000	0.3722	
89 Isopropylbenzene	105	9.510	9.510	0.000	96	36466	0.5000	0.4719	
92 1,1,2,2-Tetrachloroethane	83	9.806	9.806	0.000	88	6873	0.5000	0.4717	
93 Bromobenzene	156	9.842	9.842	0.000	91	8351	0.5000	0.4787	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	38	2378	0.5000	0.4811	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	79	2127	0.5000	0.4468	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	10517	0.5000	0.4703	
97 2-Chlorotoluene	126	10.020	10.020	0.000	96	8242	0.5000	0.4549	
99 1,3,5-Trimethylbenzene	105	10.091	10.091	0.000	95	32066	0.5000	0.4794	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	8561	0.5000	0.4531	
102 tert-Butylbenzene	119	10.411	10.411	0.000	91	27991	0.5000	0.4856	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	32909	0.5000	0.4862	
105 sec-Butylbenzene	105	10.624	10.624	0.000	94	41354	0.5000	0.4785	

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	10.755	10.755	0.000	97	16576	0.5000	0.4747	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	33303	0.5000	0.4522	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	91	16998	0.5000	0.4851	
111 n-Butylbenzene	91	11.182	11.182	0.000	97	30357	0.5000	0.4562	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	95	15955	0.5000	0.4934	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	78	1162	0.5000	0.3387	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	90	8867	0.5000	0.4721	
116 Hexachlorobutadiene	225	12.972	12.972	0.000	89	4016	0.5000	0.4747	
117 Naphthalene	128	13.115	13.115	0.000	96	21739	0.5000	0.4555	
118 1,2,3-Trichlorobenzene	180	13.364	13.352	0.012	93	7524	0.5000	0.4722	
S 134 Trihalomethanes, Total	1				0		2.00	1.92	
S 158 Total BTEX	1				0		2.50	2.52	
S 131 1,2-Dichloroethene, Total	96				0			1.14	
S 132 1,3-Dichloropropene, Total	75				0			0.8402	
S 133 Xylenes, Total	106				0		1.00	1.01	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00382	Amount Added:	0.40	Units: uL
vmarolistdw_00389	Amount Added:	0.40	Units: uL
vmrprimw_00432	Amount Added:	0.40	Units: uL
vm50ss_00439	Amount Added:	0.40	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

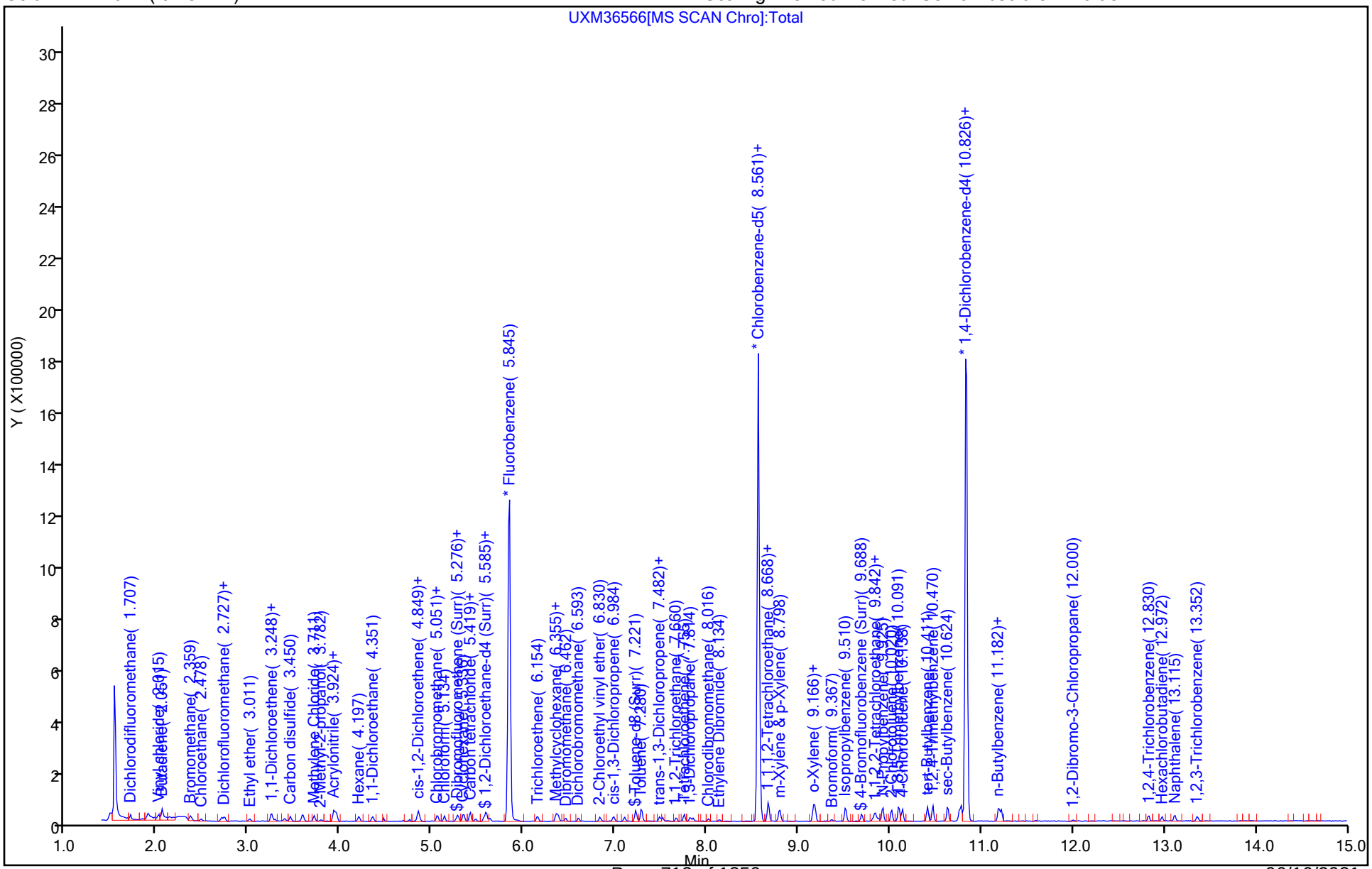
Report Date: 26-Apr-2021 08:34:37 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D

Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L1			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



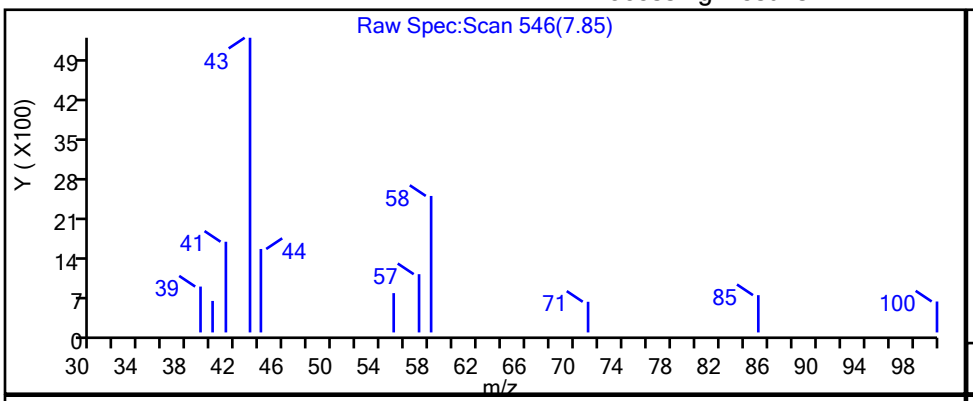
User Disabled Compound Report

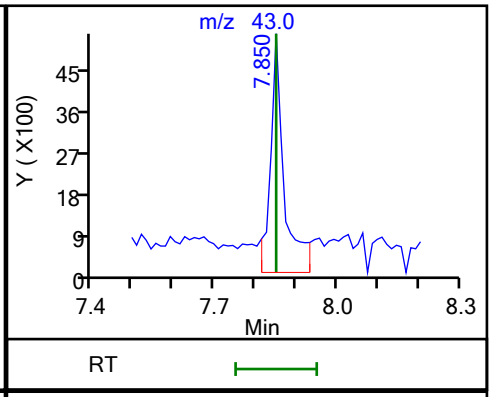
Eurofins TestAmerica, Canton

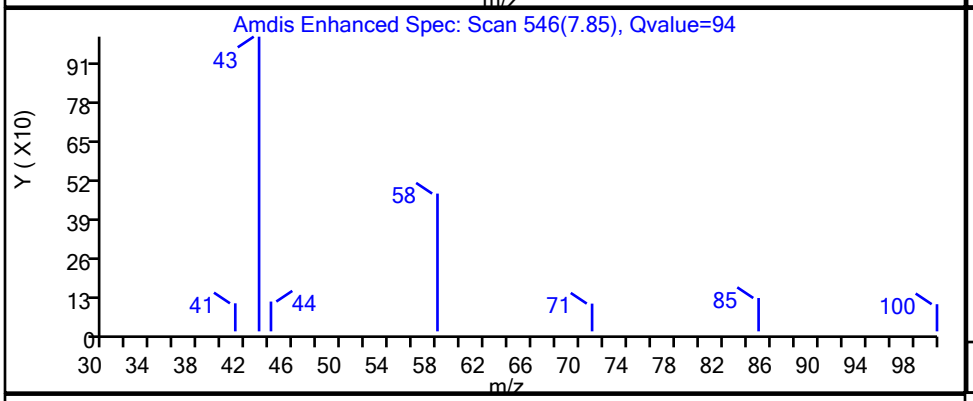
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

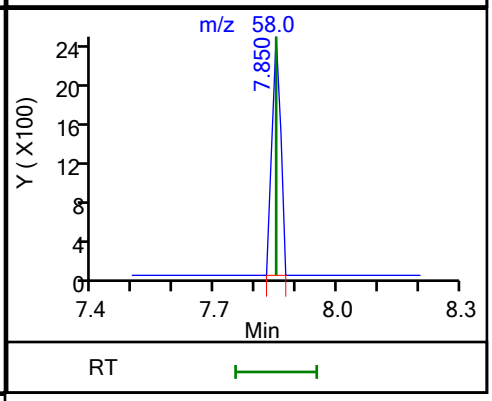
76 2-Hexanone, CAS: 591-78-6

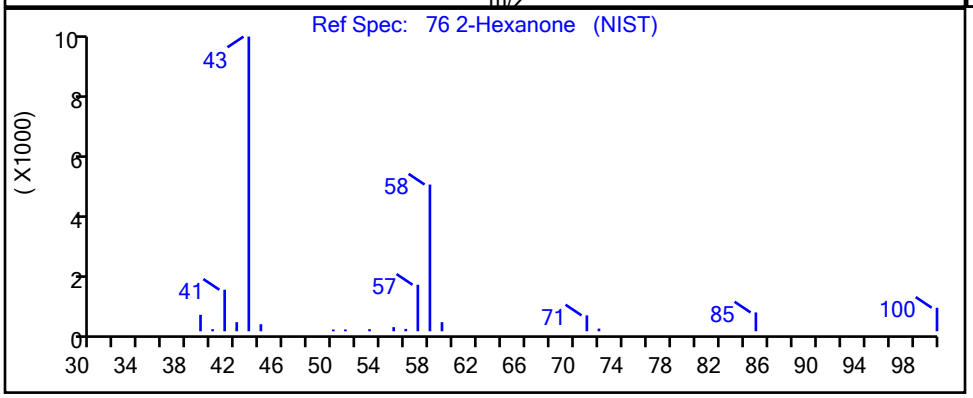
Processing Results











RT	Mass	Response	Amount
7.85	43.00	12204	1.183383
7.85	58.00	3621	

Reviewer: bosworthh, 23-Apr-2021 15:22:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

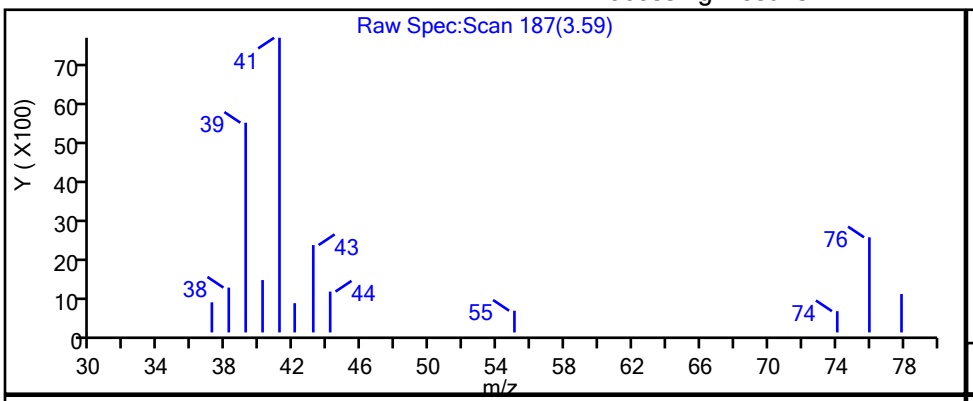
User Disabled Compound Report

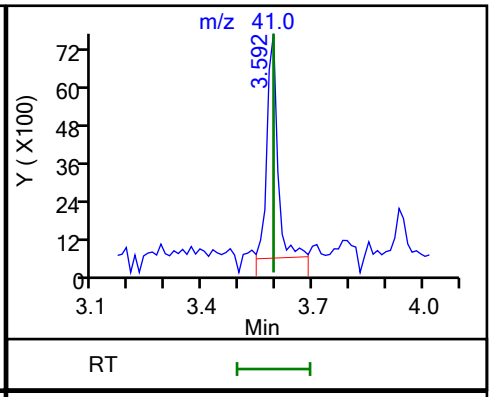
Eurofins TestAmerica, Canton

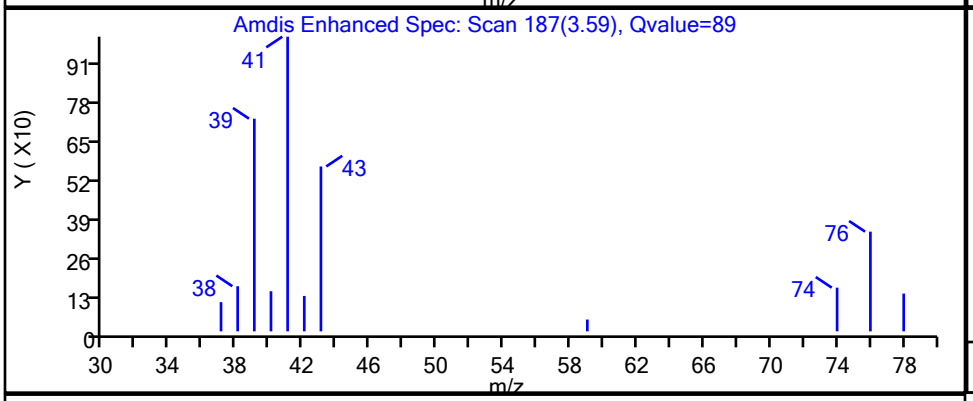
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

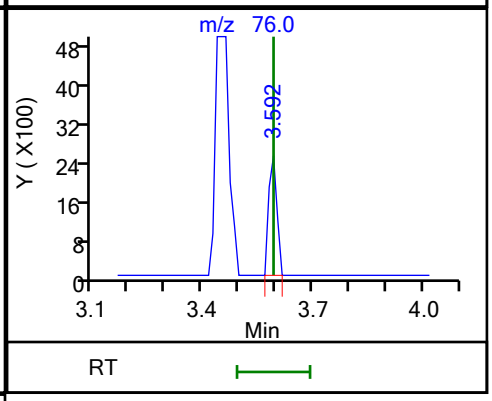
26 3-Chloro-1-propene, CAS: 107-05-1

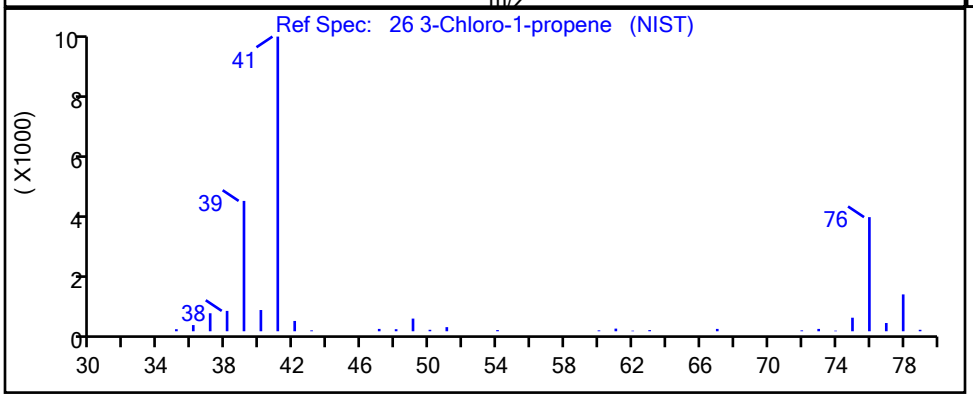
Processing Results











RT	Mass	Response	Amount
3.59	41.00	14585	0.390293
3.59	76.00	3878	

Reviewer: bosworthh, 23-Apr-2021 15:19:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

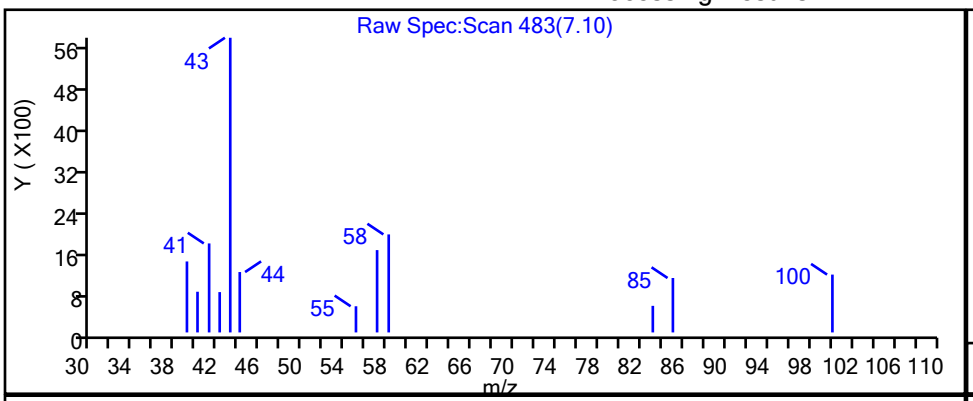
User Disabled Compound Report

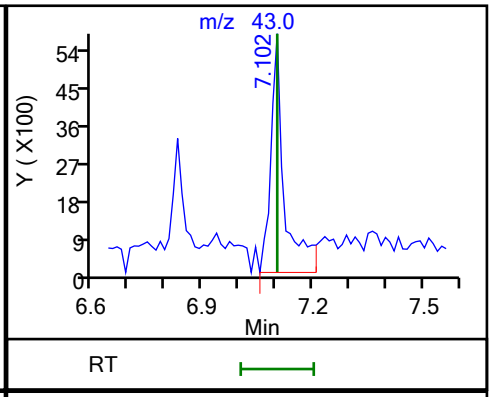
Eurofins TestAmerica, Canton

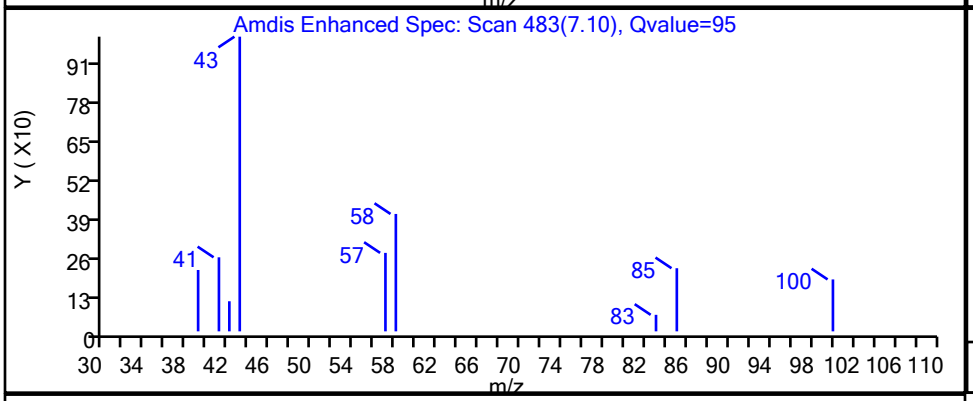
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

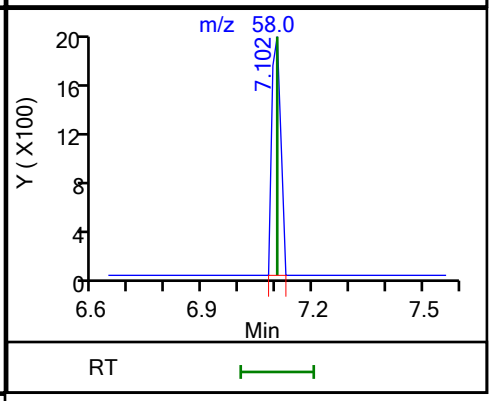
69 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

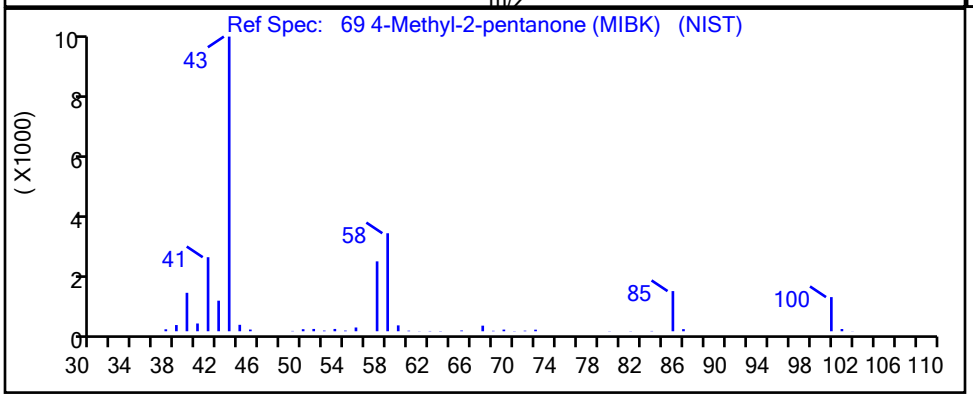
Processing Results











RT	Mass	Response	Amount
7.10	43.00	14764	1.181765
7.10	58.00	3269	

Reviewer: bosworthh, 23-Apr-2021 15:22:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

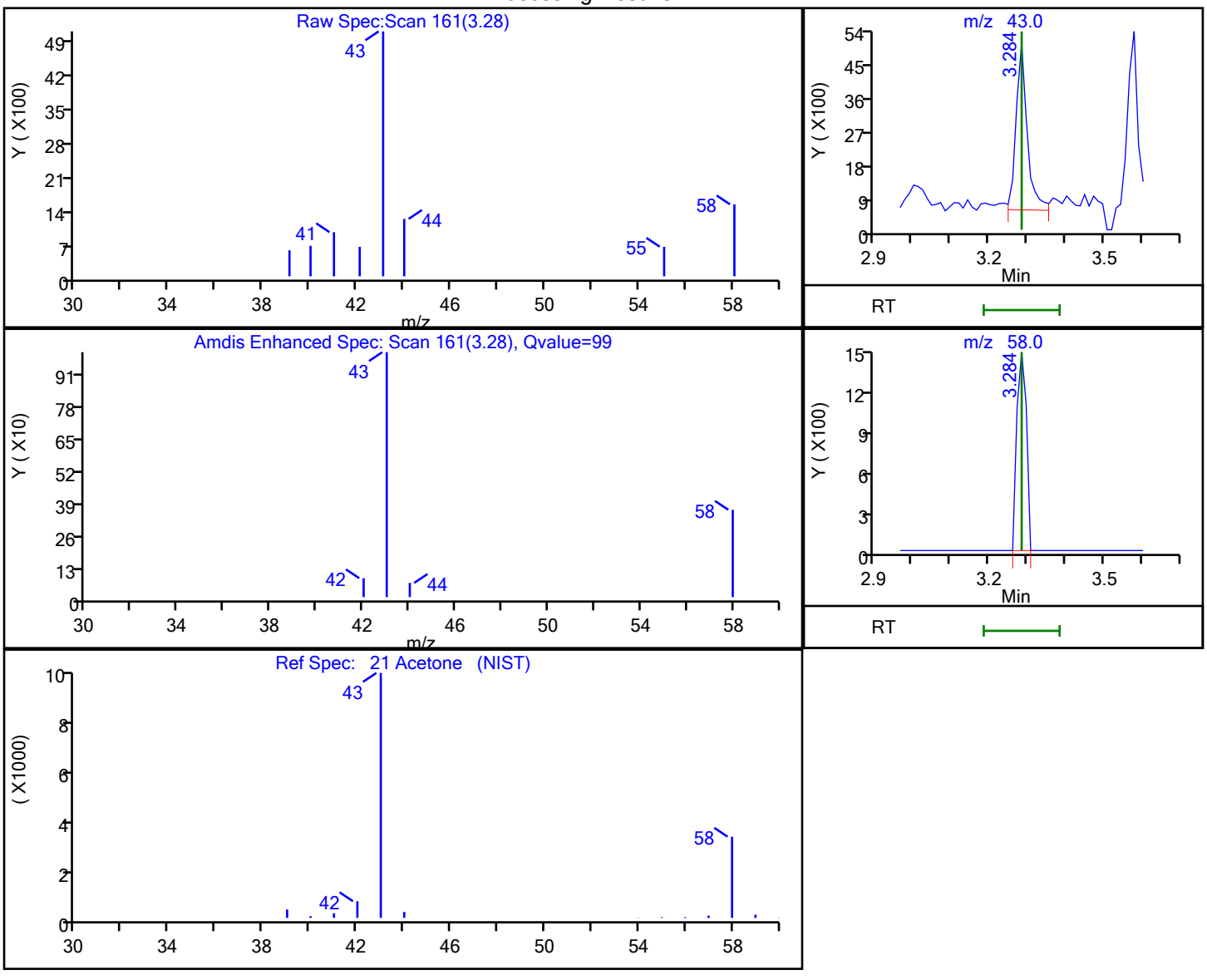
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
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		

21 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.28	43.00	9267	
3.28	58.00	2603	0.682533

Reviewer: bosworthh, 23-Apr-2021 15:18:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

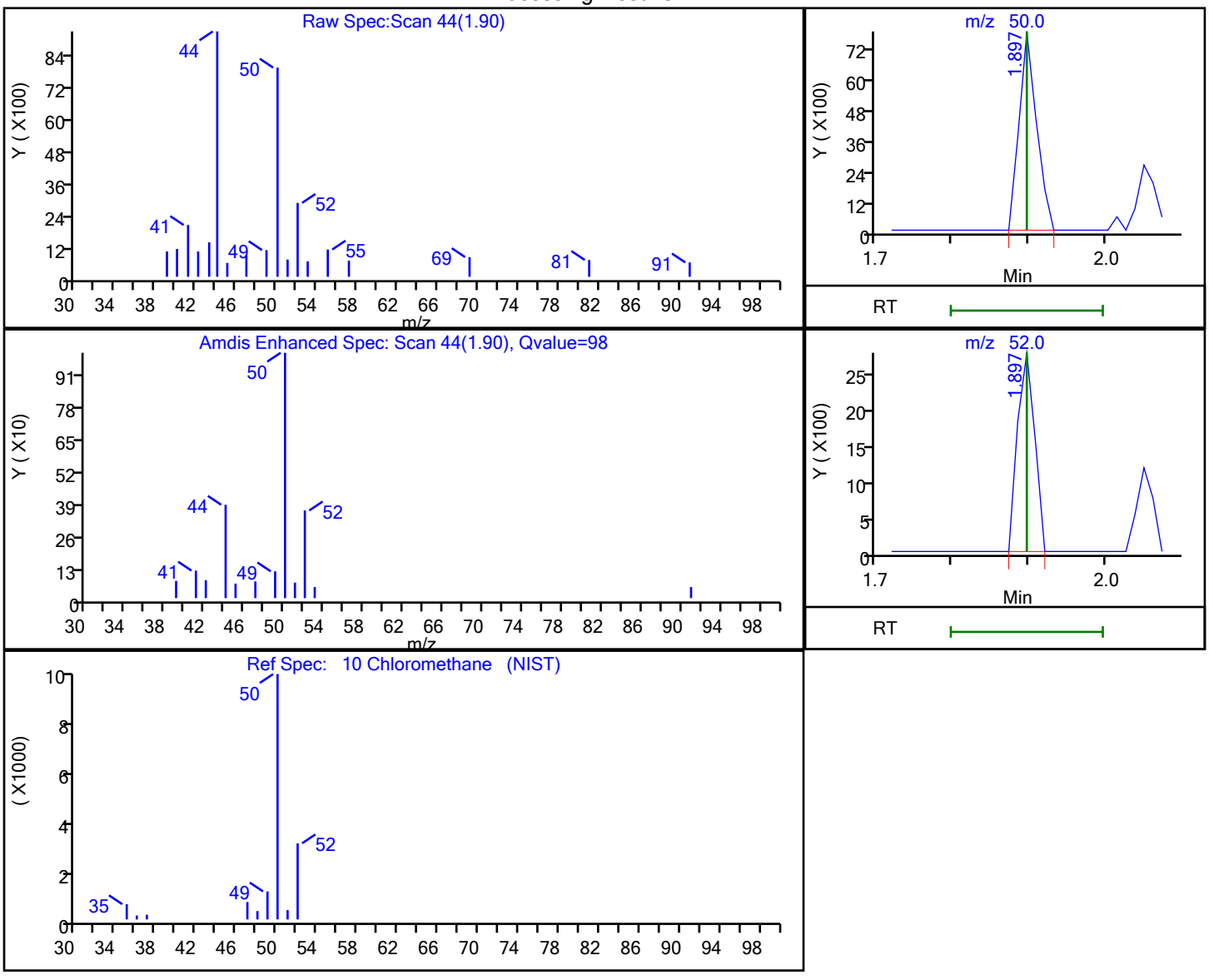
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
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		

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.90	50.00	12562	0.282068
1.90	52.00	4346	

Reviewer: bosworthh, 23-Apr-2021 15:17:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

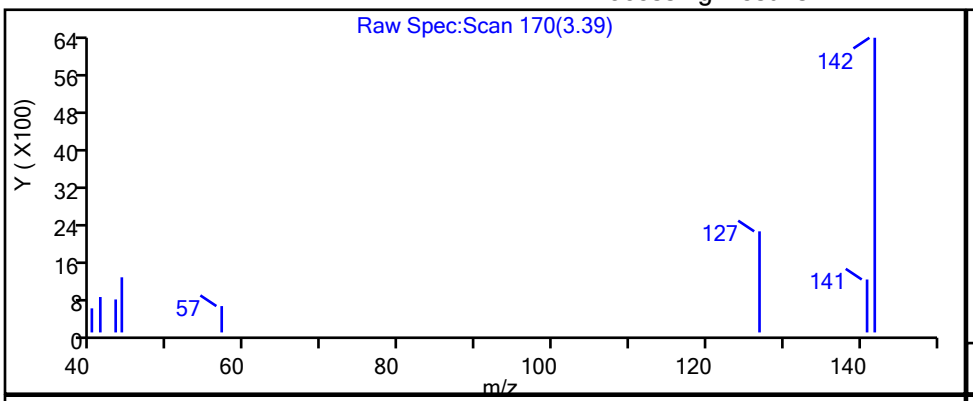
User Disabled Compound Report

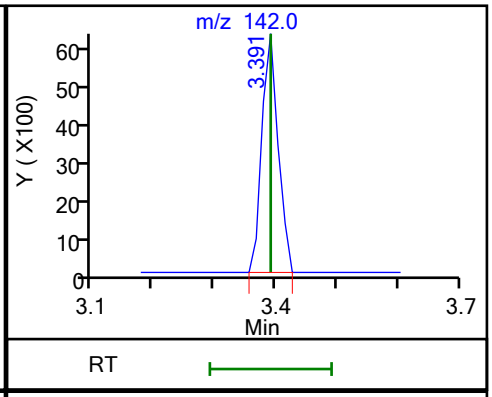
Eurofins TestAmerica, Canton

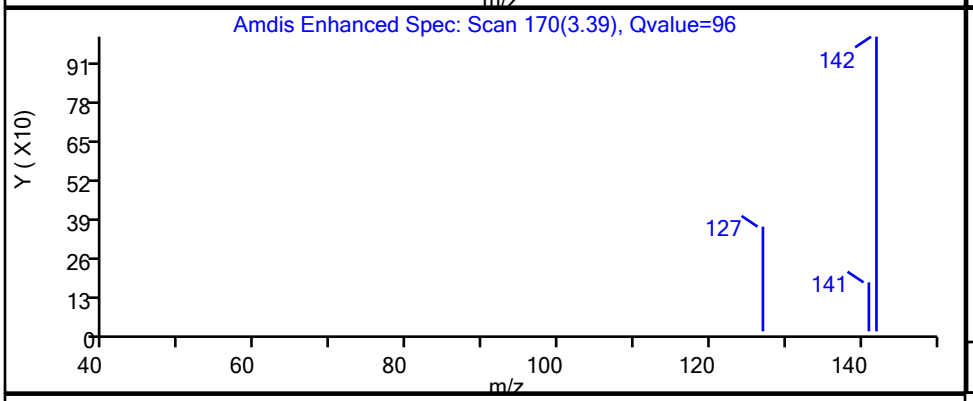
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

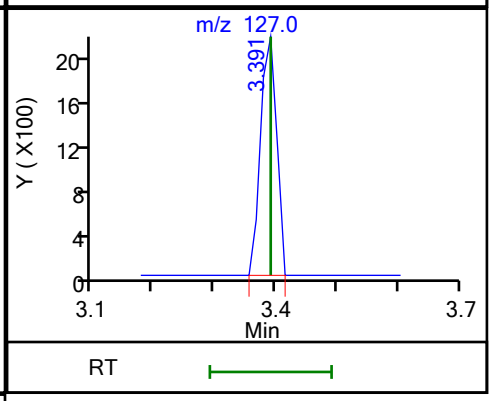
23 Iodomethane, CAS: 74-88-4

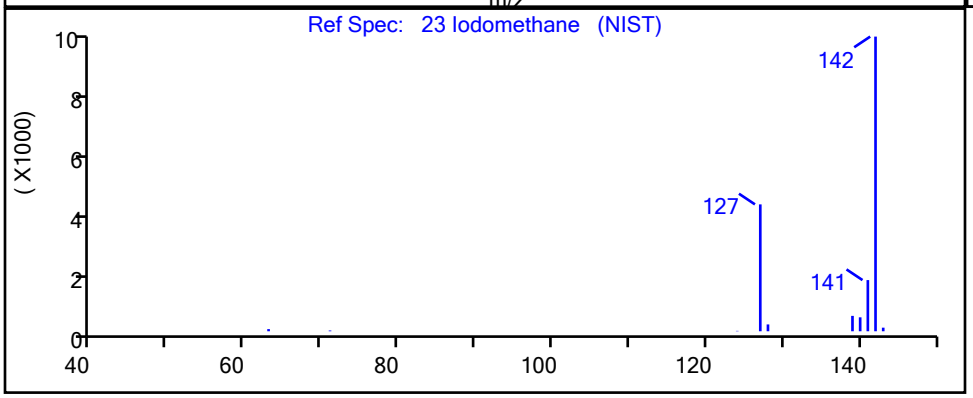
Processing Results











RT	Mass	Response	Amount
3.39	142.00	11673	0.423091
3.39	127.00	3972	

Reviewer: bosworthh, 23-Apr-2021 15:19:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

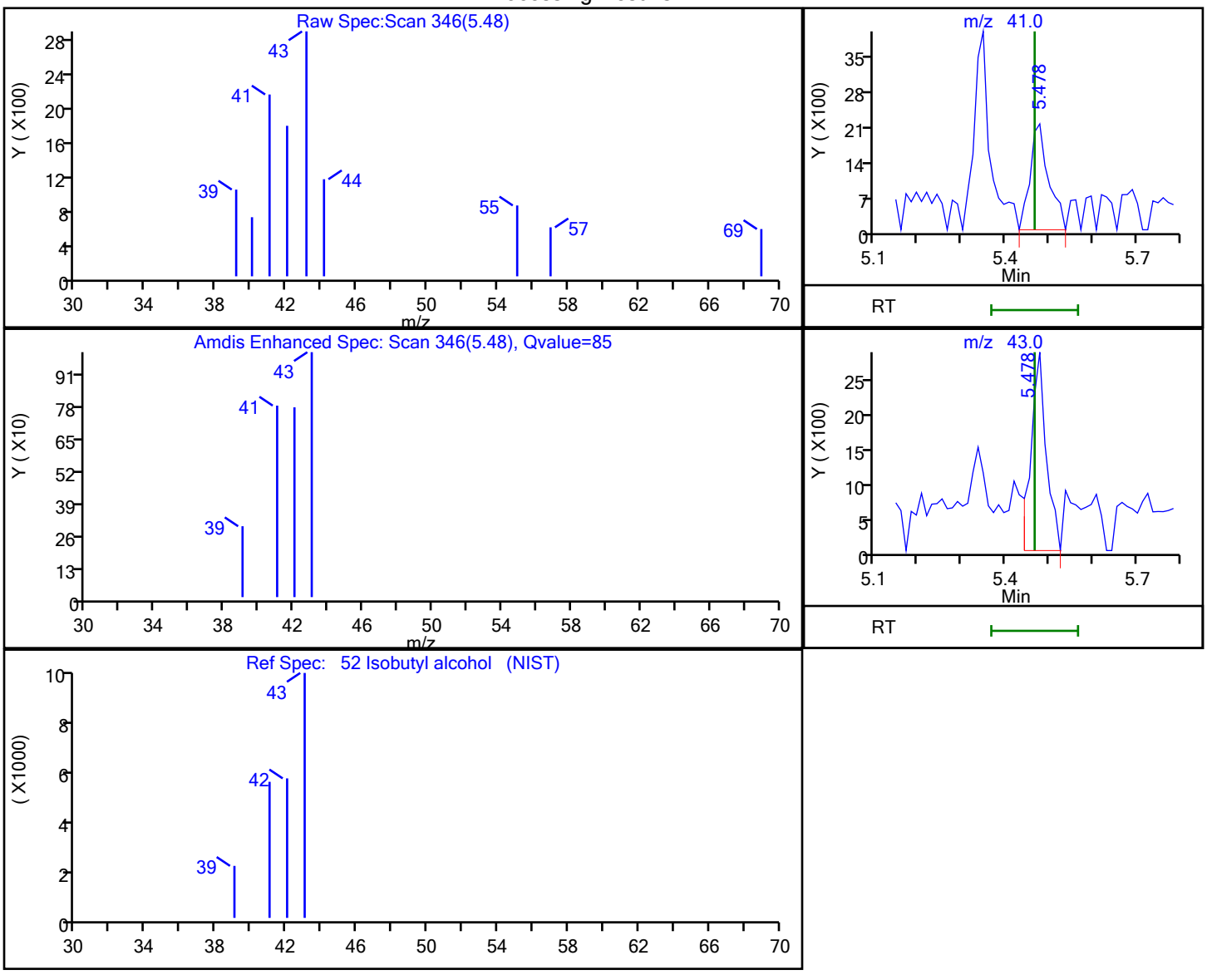
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
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

Processing Results



RT	Mass	Response	Amount
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5.48	43.00	7006	

Reviewer: bosworthh, 23-Apr-2021 15:21:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

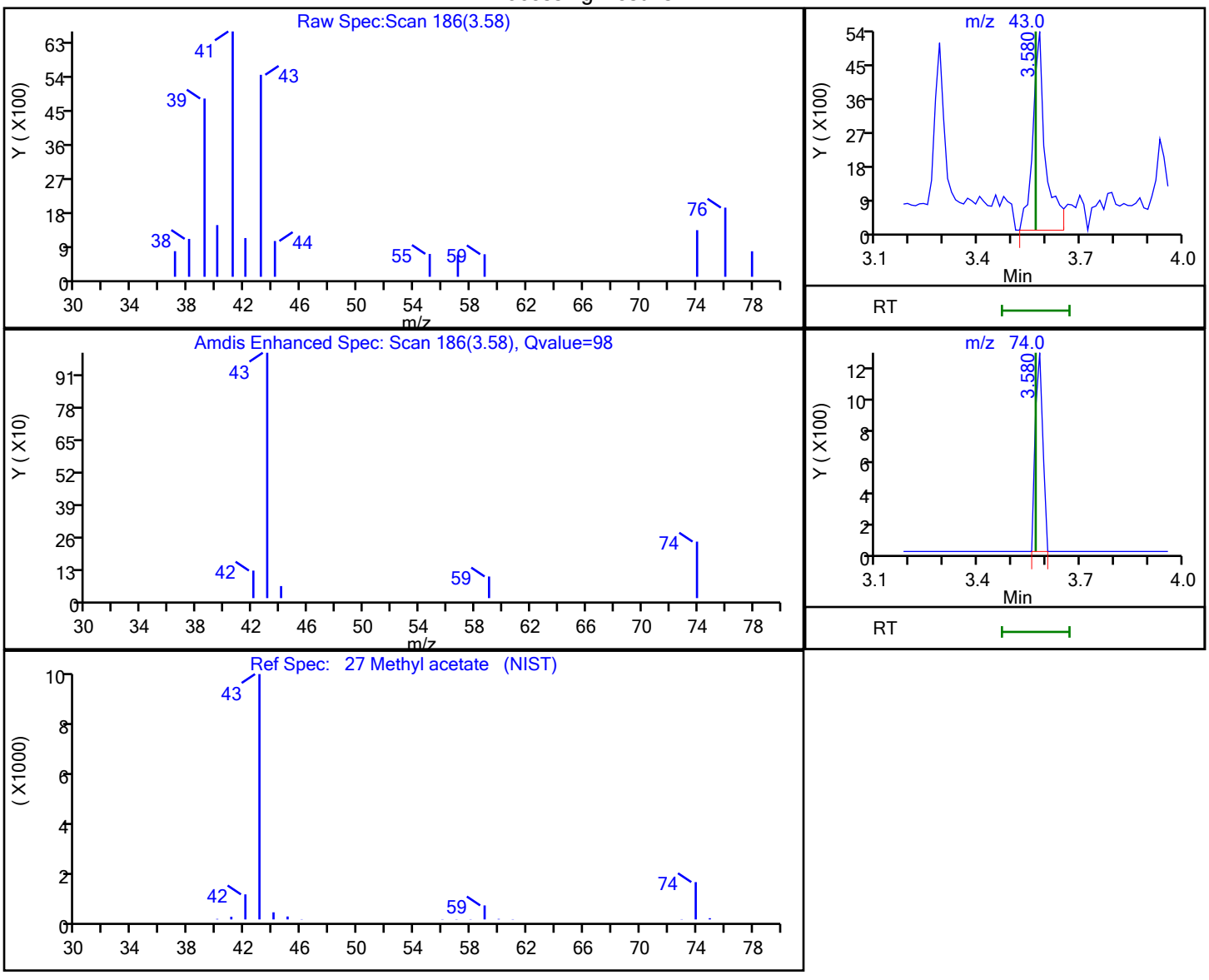
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D
Injection Date: 23-Apr-2021 14:53:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 16 Worklist Smp#: 16
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

27 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
3.58	43.00	13811	1.054507
3.58	74.00	1911	

Reviewer: bosworthh, 23-Apr-2021 15:19:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

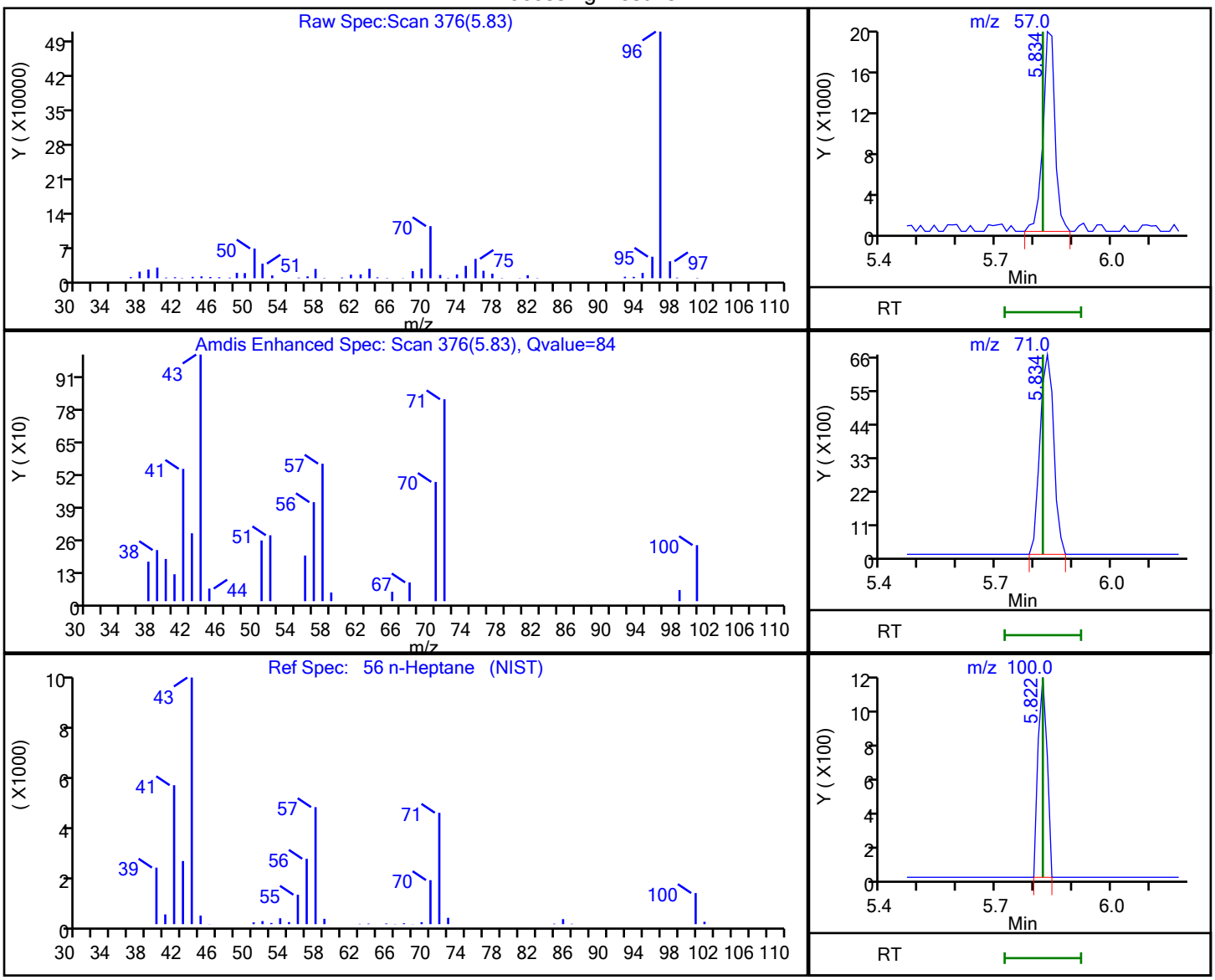
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
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
5.83	57.00	42040	0.431671
5.83	71.00	16740	
5.82	100.00	1868	

Reviewer: bosworthh, 23-Apr-2021 15:21:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

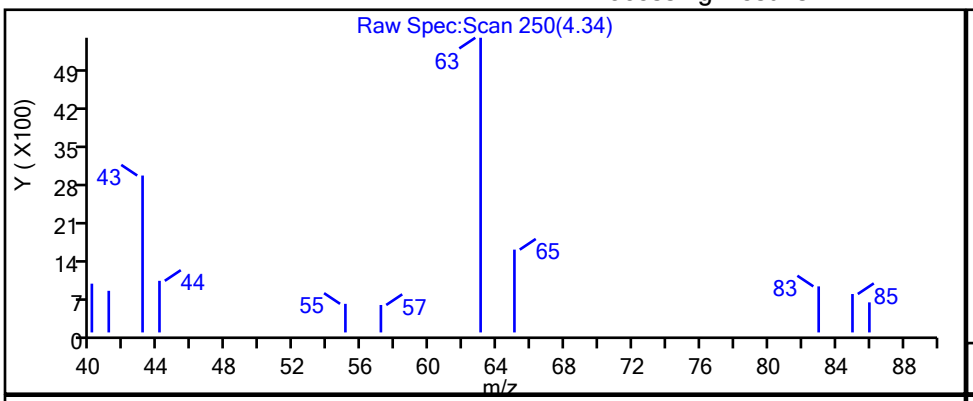
User Disabled Compound Report

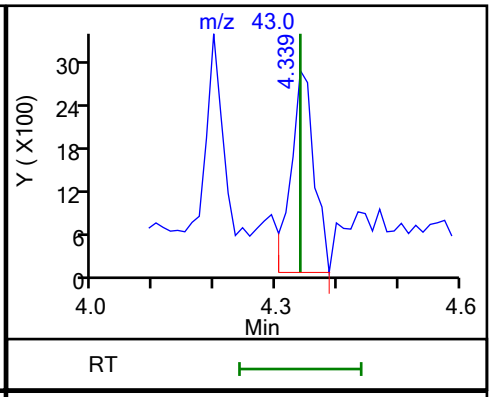
Eurofins TestAmerica, Canton

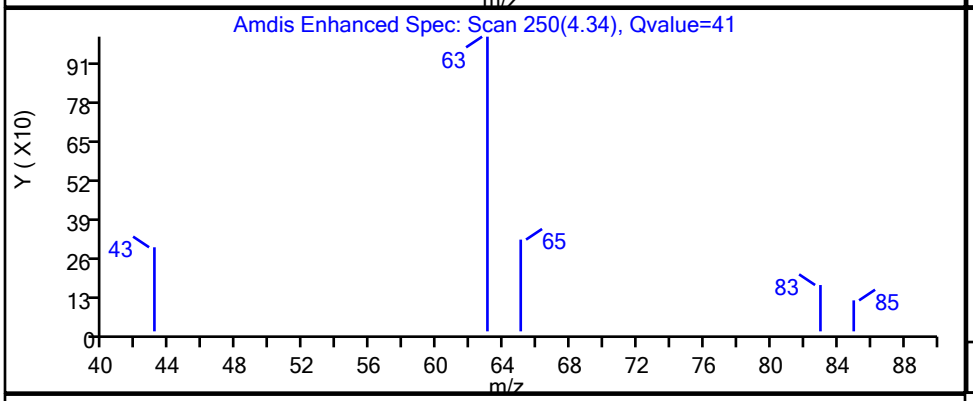
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36566.D				
Injection Date:	23-Apr-2021 14:53:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

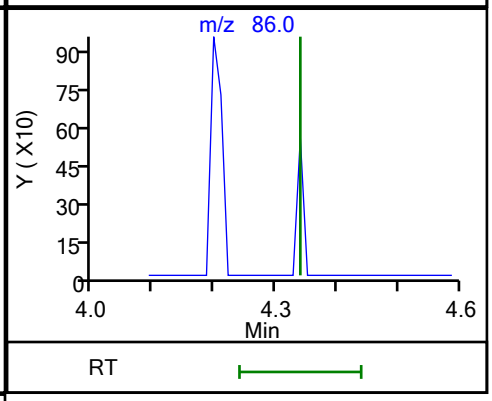
35 Vinyl acetate, CAS: 108-05-4

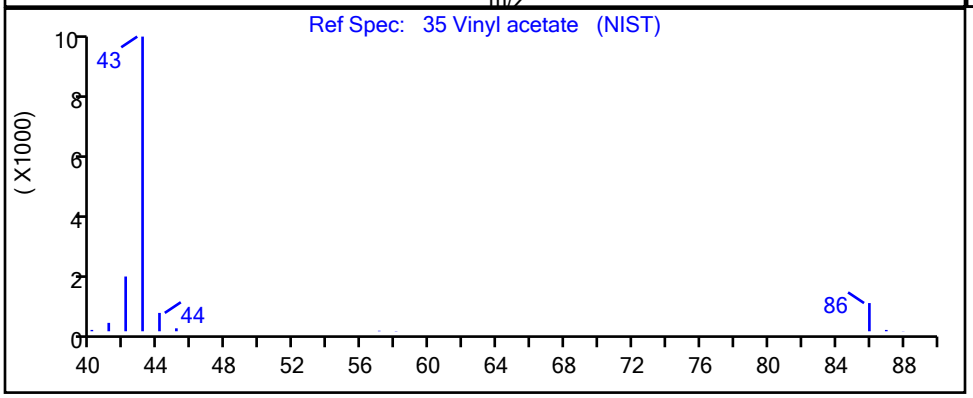
Processing Results











RT	Mass	Response	Amount
4.34	43.00	7666	0.722737
4.34	86.00	0	

Reviewer: bosworthh, 23-Apr-2021 15:20:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

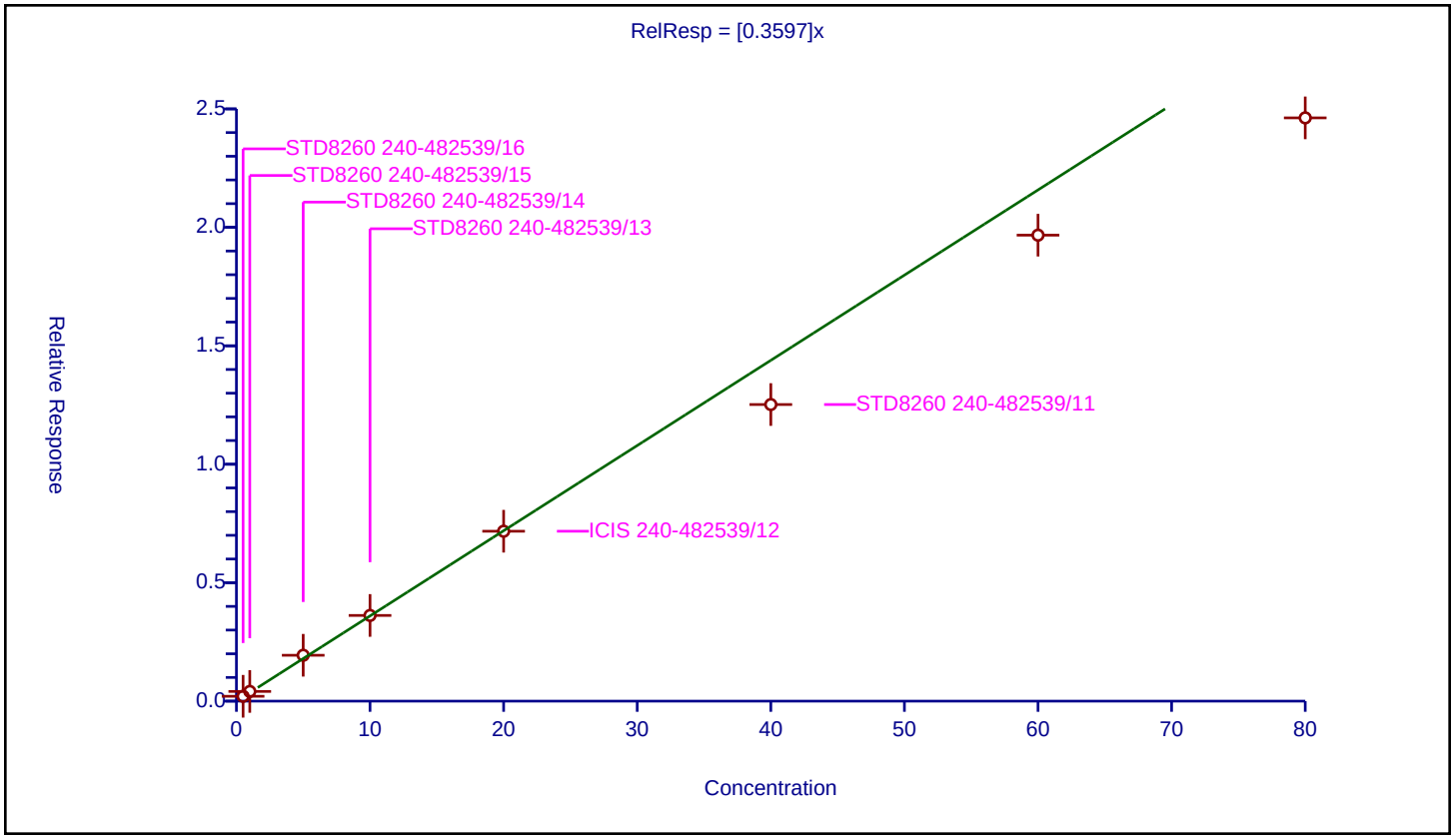
Curve Coefficients

Intercept:	0
Slope:	0.3597

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	11.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.205616	20.0	1103126.0	0.411231	Y
2	STD8260 240-482539/15	1.0	0.409827	20.0	1133064.0	0.409827	Y
3	STD8260 240-482539/14	5.0	1.936258	20.0	1285831.0	0.387252	Y
4	STD8260 240-482539/13	10.0	3.617331	20.0	1407911.0	0.361733	Y
5	ICIS 240-482539/12	20.0	7.172005	20.0	1453811.0	0.3586	Y
6	STD8260 240-482539/11	40.0	12.520573	20.0	1575479.0	0.313014	Y
7	STD8260 240-482539/10	60.0	19.669243	20.0	1594706.0	0.327821	Y
8	STD8260 240-482539/9	80.0	24.620556	20.0	1562115.0	0.307757	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

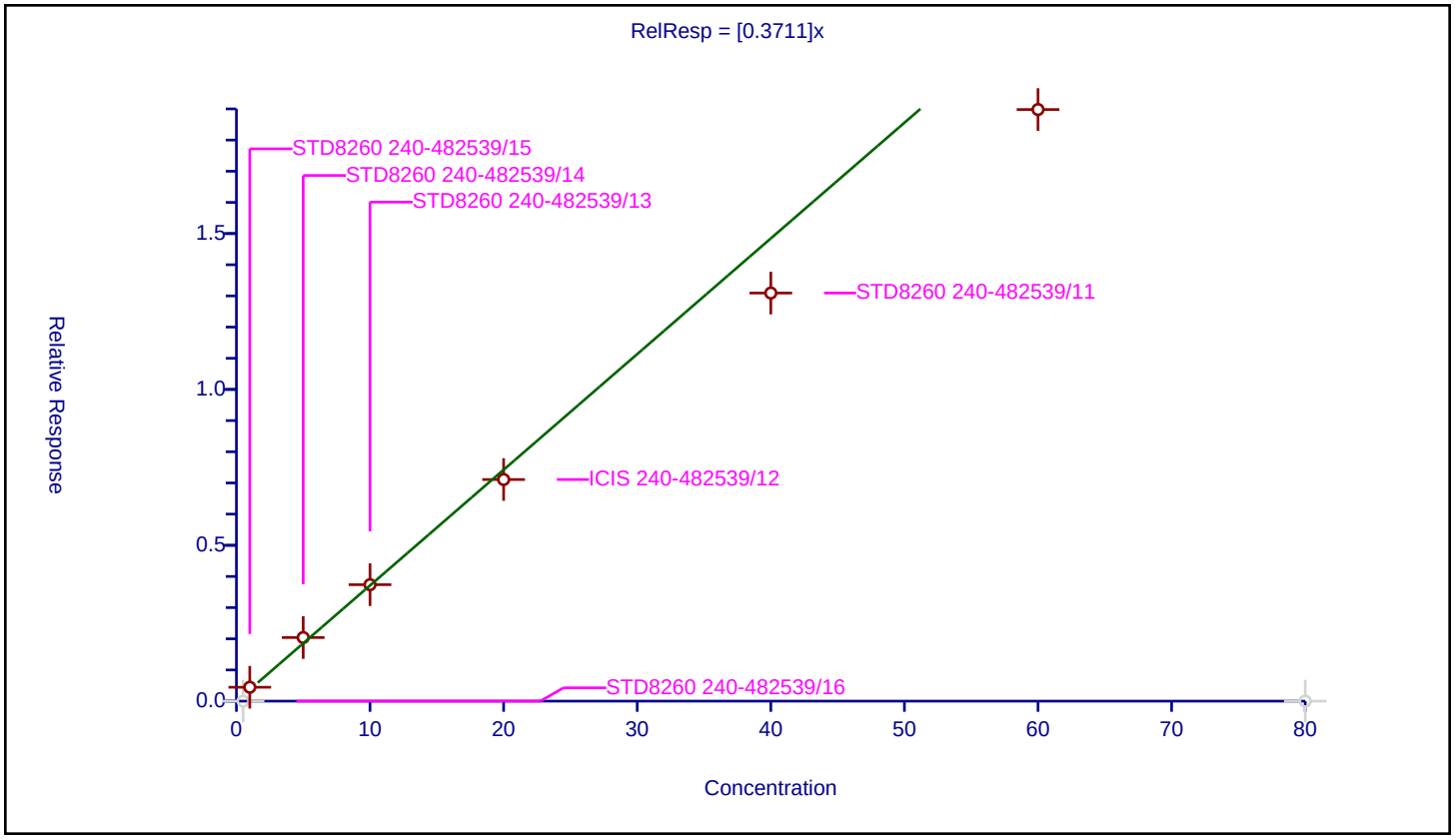
Curve Coefficients

Intercept:	0
Slope:	0.3711

Error Coefficients

Standard Error:	861000
Relative Standard Error:	13.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	1.0	0.445994	20.0	1133064.0	0.445994	Y
3	STD8260 240-482539/14	5.0	2.039755	20.0	1285831.0	0.407951	Y
4	STD8260 240-482539/13	10.0	3.736259	20.0	1407911.0	0.373626	Y
5	ICIS 240-482539/12	20.0	7.10937	20.0	1453811.0	0.355468	Y
6	STD8260 240-482539/11	40.0	13.092539	20.0	1575479.0	0.327313	Y
7	STD8260 240-482539/10	60.0	18.979699	20.0	1594706.0	0.316328	Y
8	STD8260 240-482539/9	80.0	0.0	20.0	1562115.0	0.0	N



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

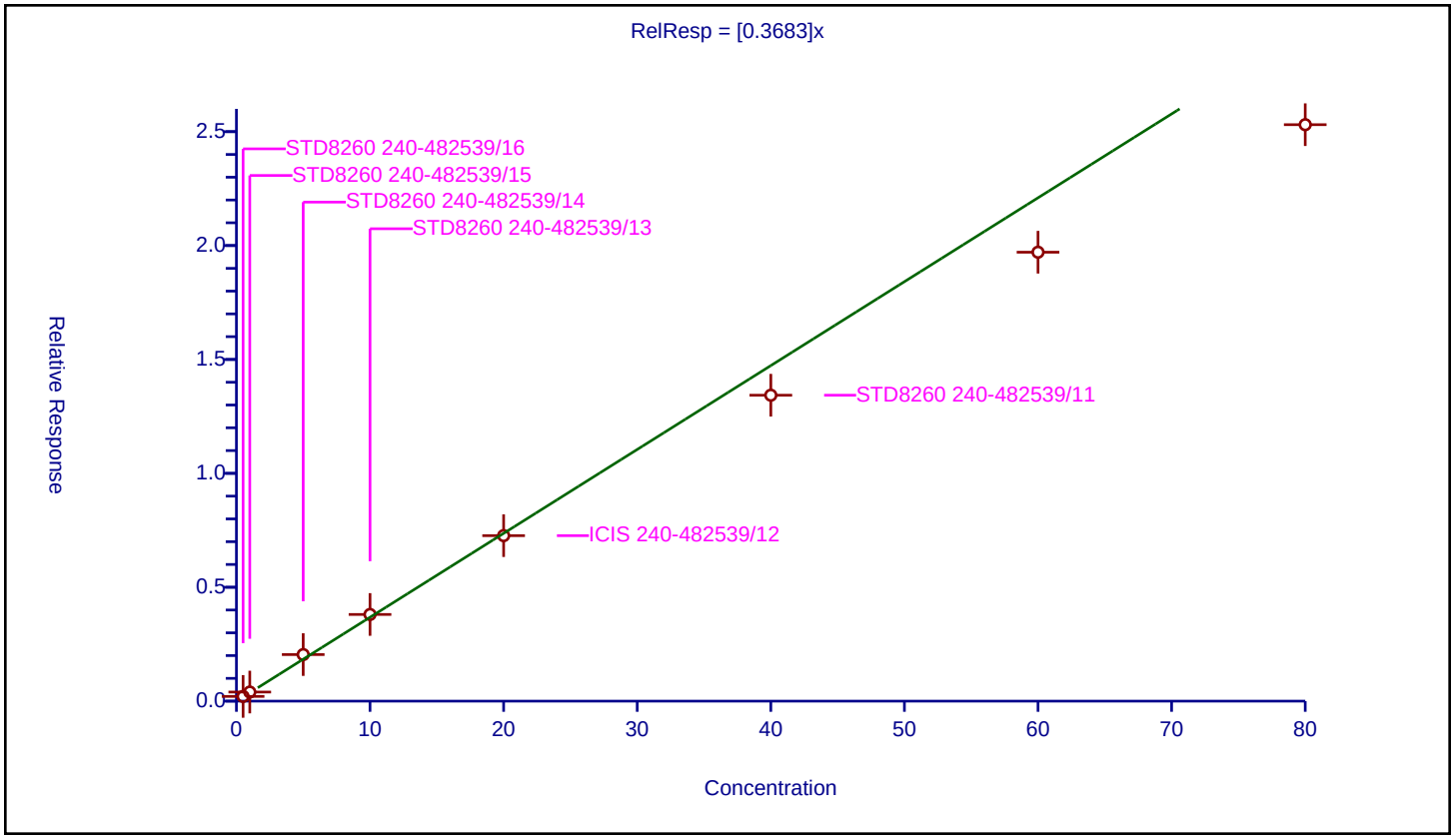
Curve Coefficients

Intercept:	0
Slope:	0.3683

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.207048	20.0	1103126.0	0.414096	Y
2	STD8260 240-482539/15	1.0	0.398777	20.0	1133064.0	0.398777	Y
3	STD8260 240-482539/14	5.0	2.044934	20.0	1285831.0	0.408987	Y
4	STD8260 240-482539/13	10.0	3.804885	20.0	1407911.0	0.380489	Y
5	ICIS 240-482539/12	20.0	7.265552	20.0	1453811.0	0.363278	Y
6	STD8260 240-482539/11	40.0	13.430277	20.0	1575479.0	0.335757	Y
7	STD8260 240-482539/10	60.0	19.708699	20.0	1594706.0	0.328478	Y
8	STD8260 240-482539/9	80.0	25.306319	20.0	1562115.0	0.316329	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

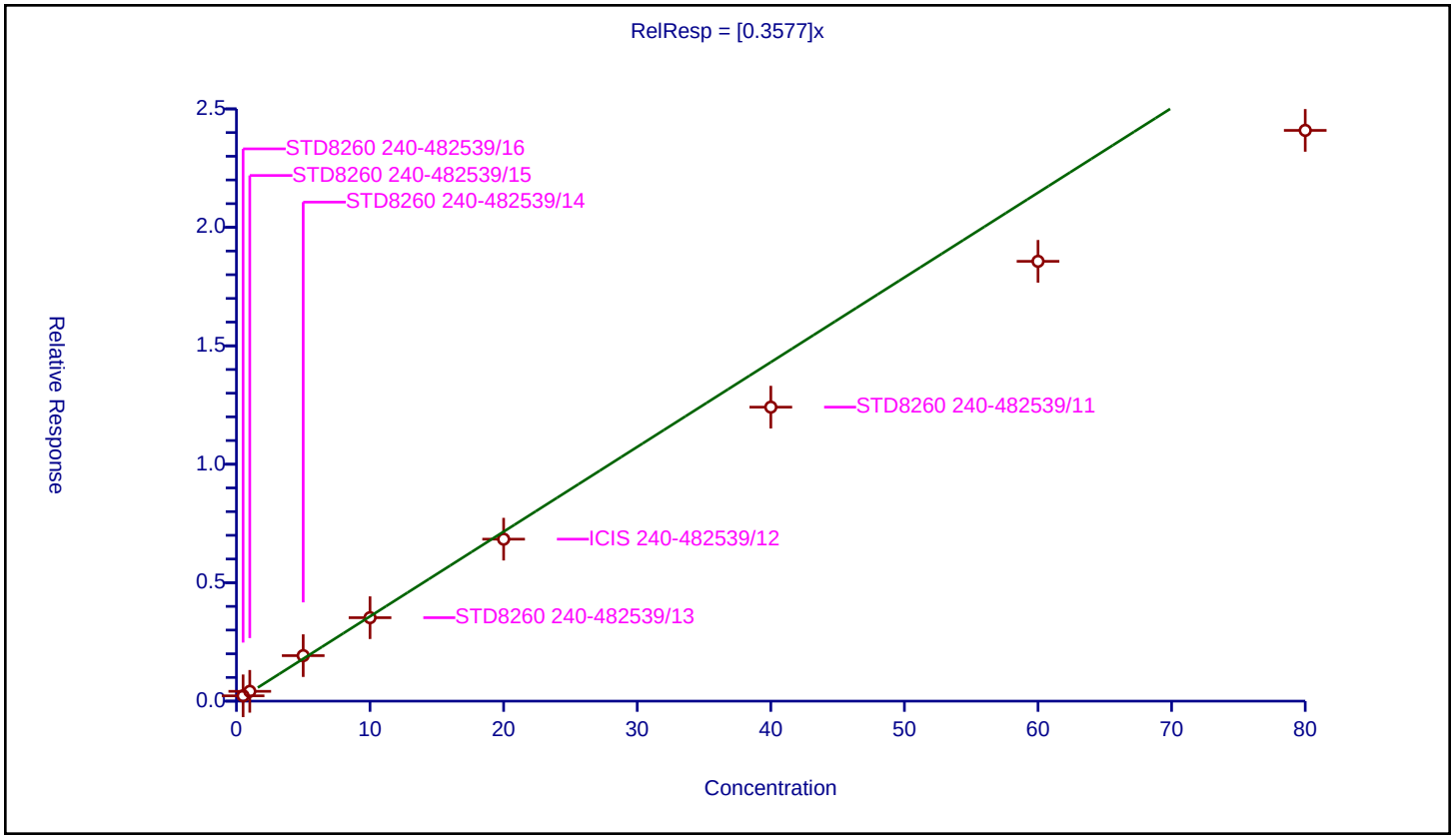
Curve Coefficients

Intercept:	0
Slope:	0.3577

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	15.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.223945	20.0	1103126.0	0.447891	Y
2	STD8260 240-482539/15	1.0	0.414557	20.0	1133064.0	0.414557	Y
3	STD8260 240-482539/14	5.0	1.92047	20.0	1285831.0	0.384094	Y
4	STD8260 240-482539/13	10.0	3.523376	20.0	1407911.0	0.352338	Y
5	ICIS 240-482539/12	20.0	6.837574	20.0	1453811.0	0.341879	Y
6	STD8260 240-482539/11	40.0	12.410245	20.0	1575479.0	0.310256	Y
7	STD8260 240-482539/10	60.0	18.565704	20.0	1594706.0	0.309428	Y
8	STD8260 240-482539/9	80.0	24.093002	20.0	1562115.0	0.301163	Y



Calibration / Bromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

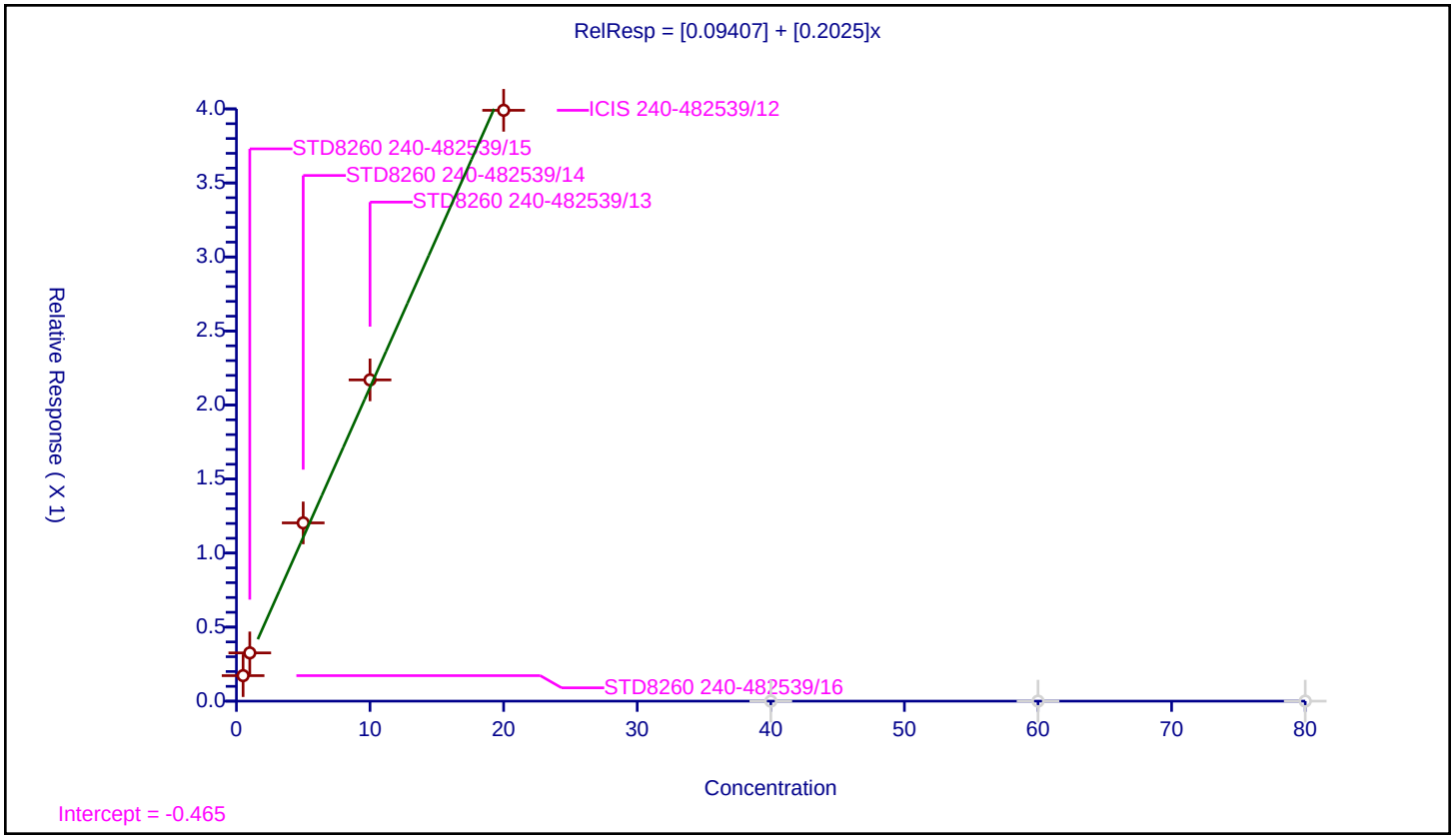
Curve Coefficients

Intercept:	0.09407
Slope:	0.2025

Error Coefficients

Standard Error:	195000
Relative Standard Error:	16.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.172256	20.0	1103126.0	0.344512	Y
2	STD8260 240-482539/15	1.0	0.325948	20.0	1133064.0	0.325948	Y
3	STD8260 240-482539/14	5.0	1.203797	20.0	1285831.0	0.240759	Y
4	STD8260 240-482539/13	10.0	2.169668	20.0	1407911.0	0.216967	Y
5	ICIS 240-482539/12	20.0	3.990464	20.0	1453811.0	0.199523	Y
6	STD8260 240-482539/11	40.0	0.0	20.0	1575479.0	0.0	N
7	STD8260 240-482539/10	60.0	0.0	20.0	1594706.0	0.0	N
8	STD8260 240-482539/9	80.0	0.0	20.0	1562115.0	0.0	N



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

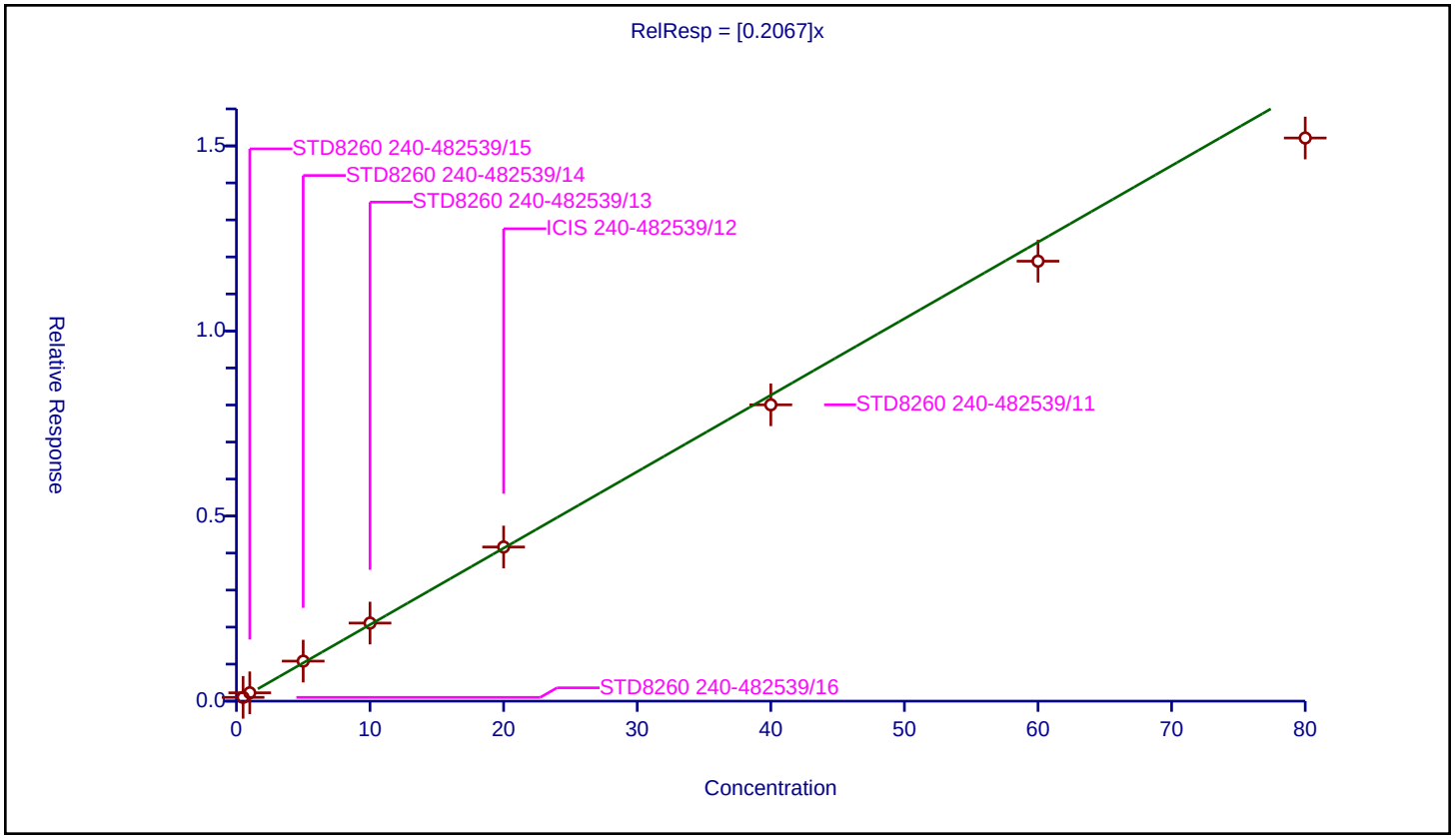
Curve Coefficients

Intercept:	0
Slope:	0.2067

Error Coefficients

Standard Error:	635000
Relative Standard Error:	5.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.101856	20.0	1103126.0	0.203712	Y
2	STD8260 240-482539/15	1.0	0.225707	20.0	1133064.0	0.225707	Y
3	STD8260 240-482539/14	5.0	1.081386	20.0	1285831.0	0.216277	Y
4	STD8260 240-482539/13	10.0	2.109423	20.0	1407911.0	0.210942	Y
5	ICIS 240-482539/12	20.0	4.164324	20.0	1453811.0	0.208216	Y
6	STD8260 240-482539/11	40.0	8.006048	20.0	1575479.0	0.200151	Y
7	STD8260 240-482539/10	60.0	11.885714	20.0	1594706.0	0.198095	Y
8	STD8260 240-482539/9	80.0	15.213297	20.0	1562115.0	0.190166	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

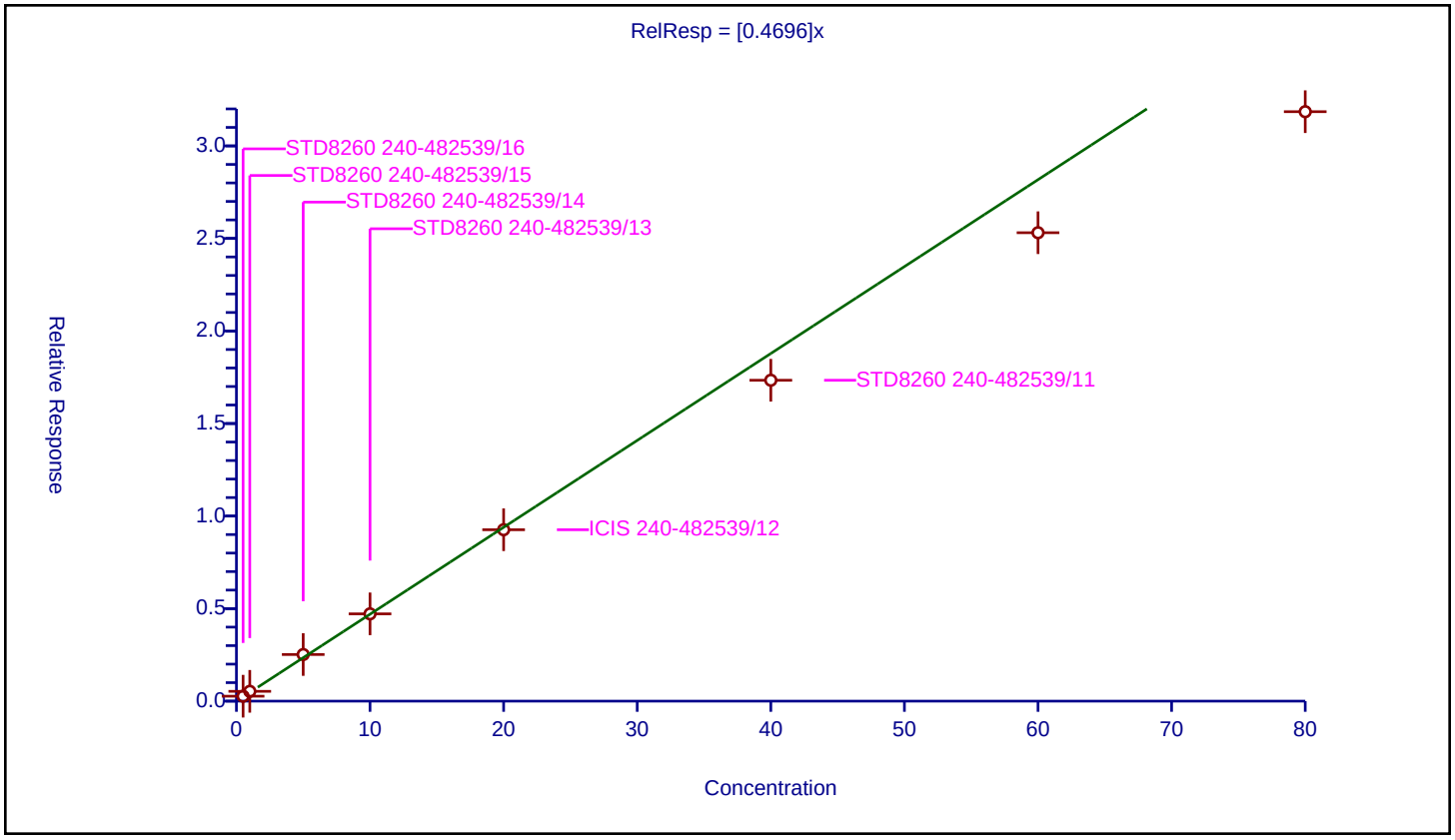
Curve Coefficients

Intercept:	0
Slope:	0.4696

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	10.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.266896	20.0	1103126.0	0.533792	Y
2	STD8260 240-482539/15	1.0	0.530967	20.0	1133064.0	0.530967	Y
3	STD8260 240-482539/14	5.0	2.518636	20.0	1285831.0	0.503727	Y
4	STD8260 240-482539/13	10.0	4.716363	20.0	1407911.0	0.471636	Y
5	ICIS 240-482539/12	20.0	9.261864	20.0	1453811.0	0.463093	Y
6	STD8260 240-482539/11	40.0	17.338536	20.0	1575479.0	0.433463	Y
7	STD8260 240-482539/10	60.0	25.310245	20.0	1594706.0	0.421837	Y
8	STD8260 240-482539/9	80.0	31.848219	20.0	1562115.0	0.398103	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

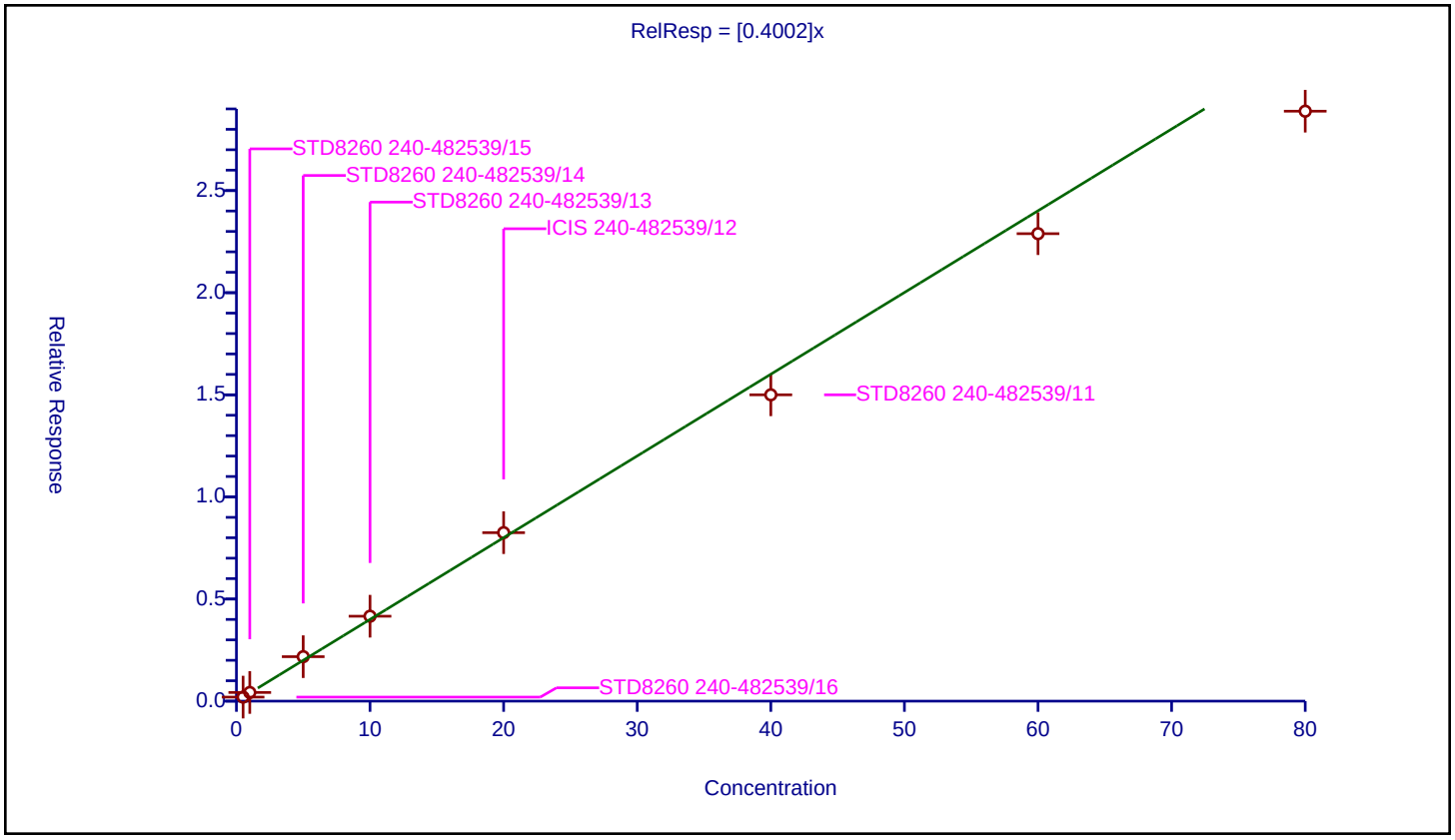
Curve Coefficients

Intercept:	0
Slope:	0.4002

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.197838	20.0	1103126.0	0.395676	Y
2	STD8260 240-482539/15	1.0	0.424336	20.0	1133064.0	0.424336	Y
3	STD8260 240-482539/14	5.0	2.177876	20.0	1285831.0	0.435575	Y
4	STD8260 240-482539/13	10.0	4.158331	20.0	1407911.0	0.415833	Y
5	ICIS 240-482539/12	20.0	8.249917	20.0	1453811.0	0.412496	Y
6	STD8260 240-482539/11	40.0	14.999172	20.0	1575479.0	0.374979	Y
7	STD8260 240-482539/10	60.0	22.890037	20.0	1594706.0	0.381501	Y
8	STD8260 240-482539/9	80.0	28.888321	20.0	1562115.0	0.361104	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

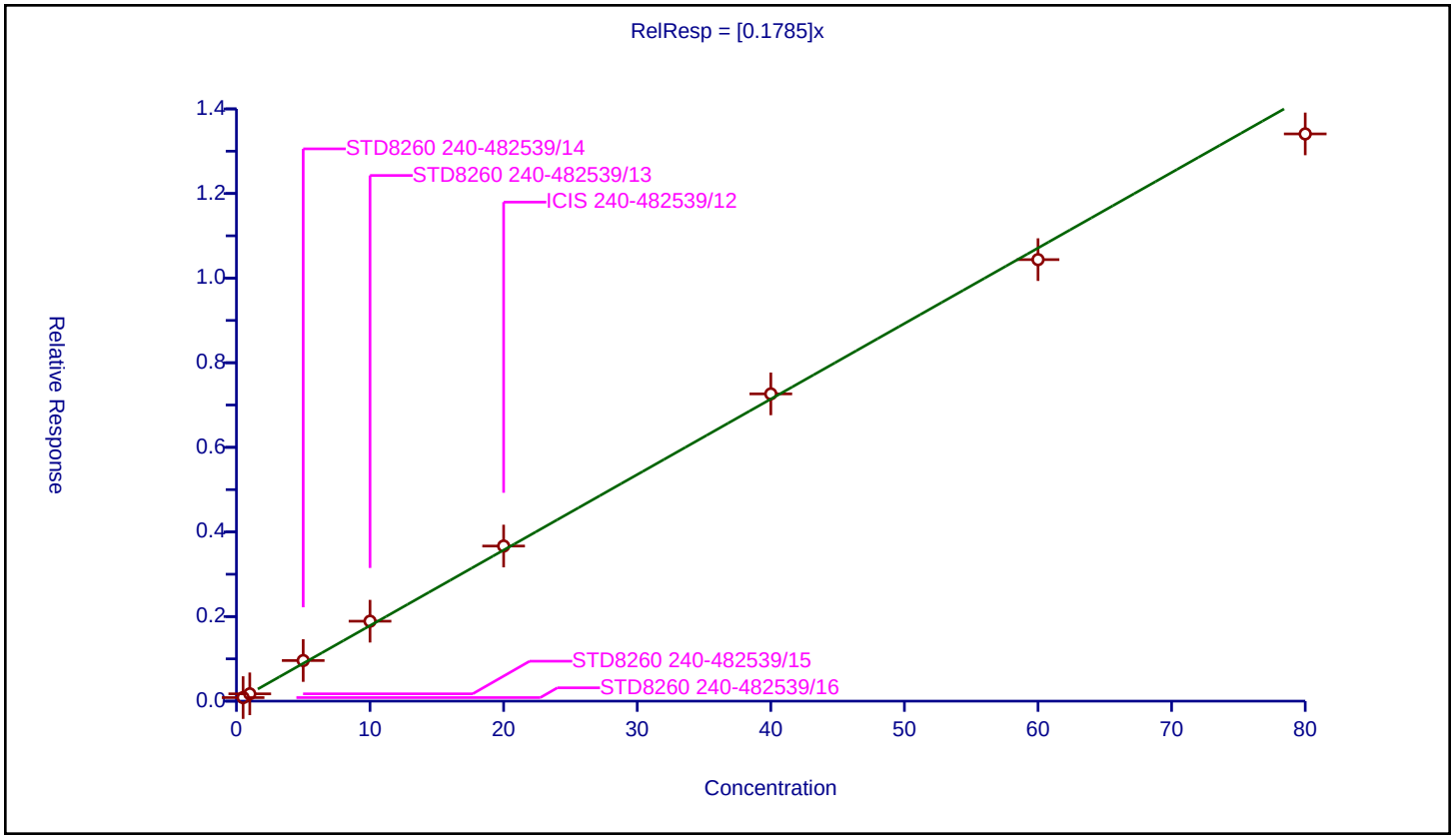
Curve Coefficients

Intercept:	0
Slope:	0.1785

Error Coefficients

Standard Error:	562000
Relative Standard Error:	5.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.083998	20.0	1103126.0	0.167995	Y
2	STD8260 240-482539/15	1.0	0.172718	20.0	1133064.0	0.172718	Y
3	STD8260 240-482539/14	5.0	0.959784	20.0	1285831.0	0.191957	Y
4	STD8260 240-482539/13	10.0	1.889935	20.0	1407911.0	0.188993	Y
5	ICIS 240-482539/12	20.0	3.666749	20.0	1453811.0	0.183337	Y
6	STD8260 240-482539/11	40.0	7.263226	20.0	1575479.0	0.181581	Y
7	STD8260 240-482539/10	60.0	10.436933	20.0	1594706.0	0.173949	Y
8	STD8260 240-482539/9	80.0	13.408821	20.0	1562115.0	0.16761	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

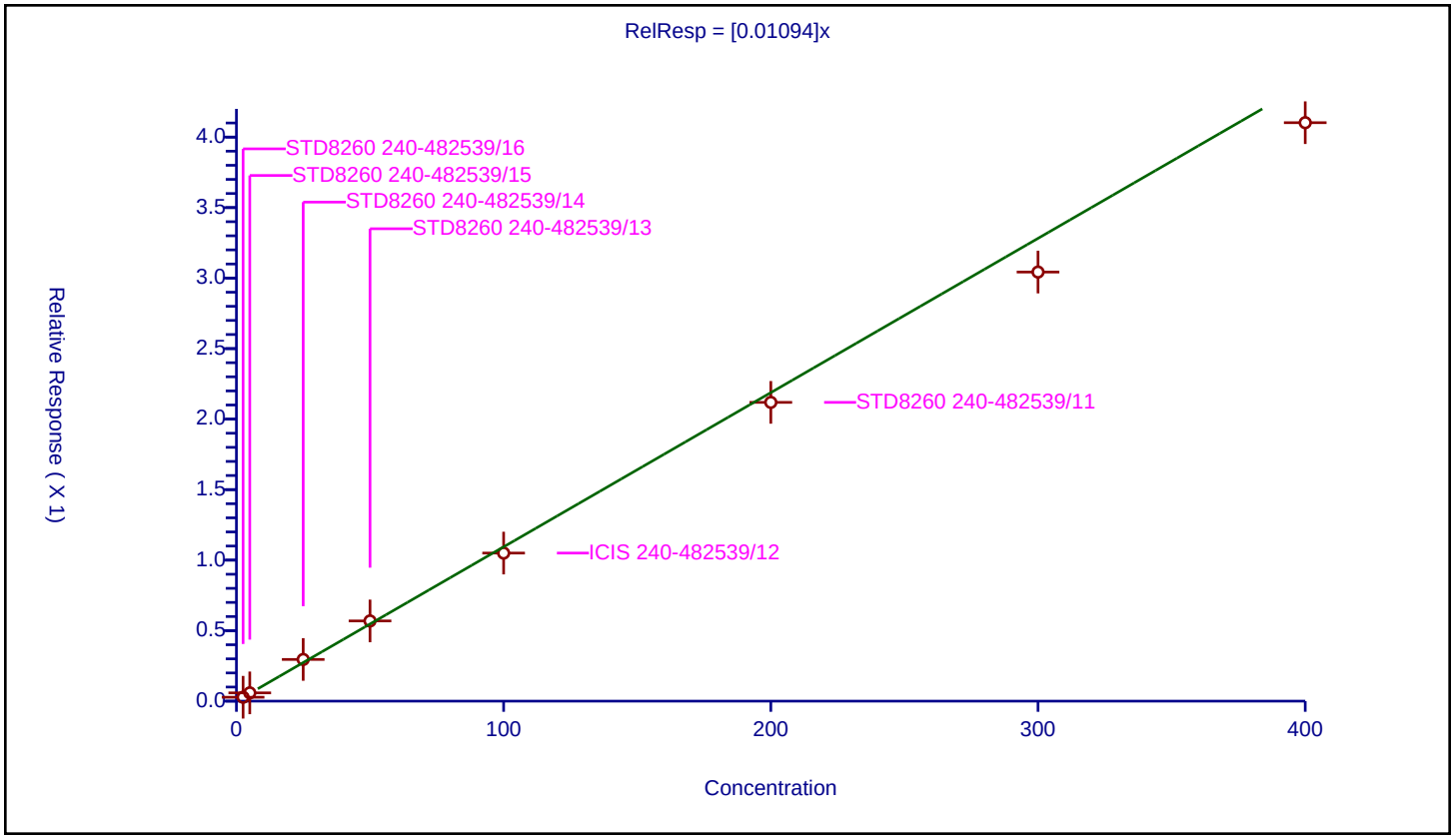
Curve Coefficients

Intercept:	0
Slope:	0.01094

Error Coefficients

Standard Error:	168000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	2.5	0.027757	20.0	1103126.0	0.011103	Y
2	STD8260 240-482539/15	5.0	0.058585	20.0	1133064.0	0.011717	Y
3	STD8260 240-482539/14	25.0	0.295653	20.0	1285831.0	0.011826	Y
4	STD8260 240-482539/13	50.0	0.568814	20.0	1407911.0	0.011376	Y
5	ICIS 240-482539/12	100.0	1.050013	20.0	1453811.0	0.0105	Y
6	STD8260 240-482539/11	200.0	2.118683	20.0	1575479.0	0.010593	Y
7	STD8260 240-482539/10	300.0	3.042931	20.0	1594706.0	0.010143	Y
8	STD8260 240-482539/9	400.0	4.102208	20.0	1562115.0	0.010256	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

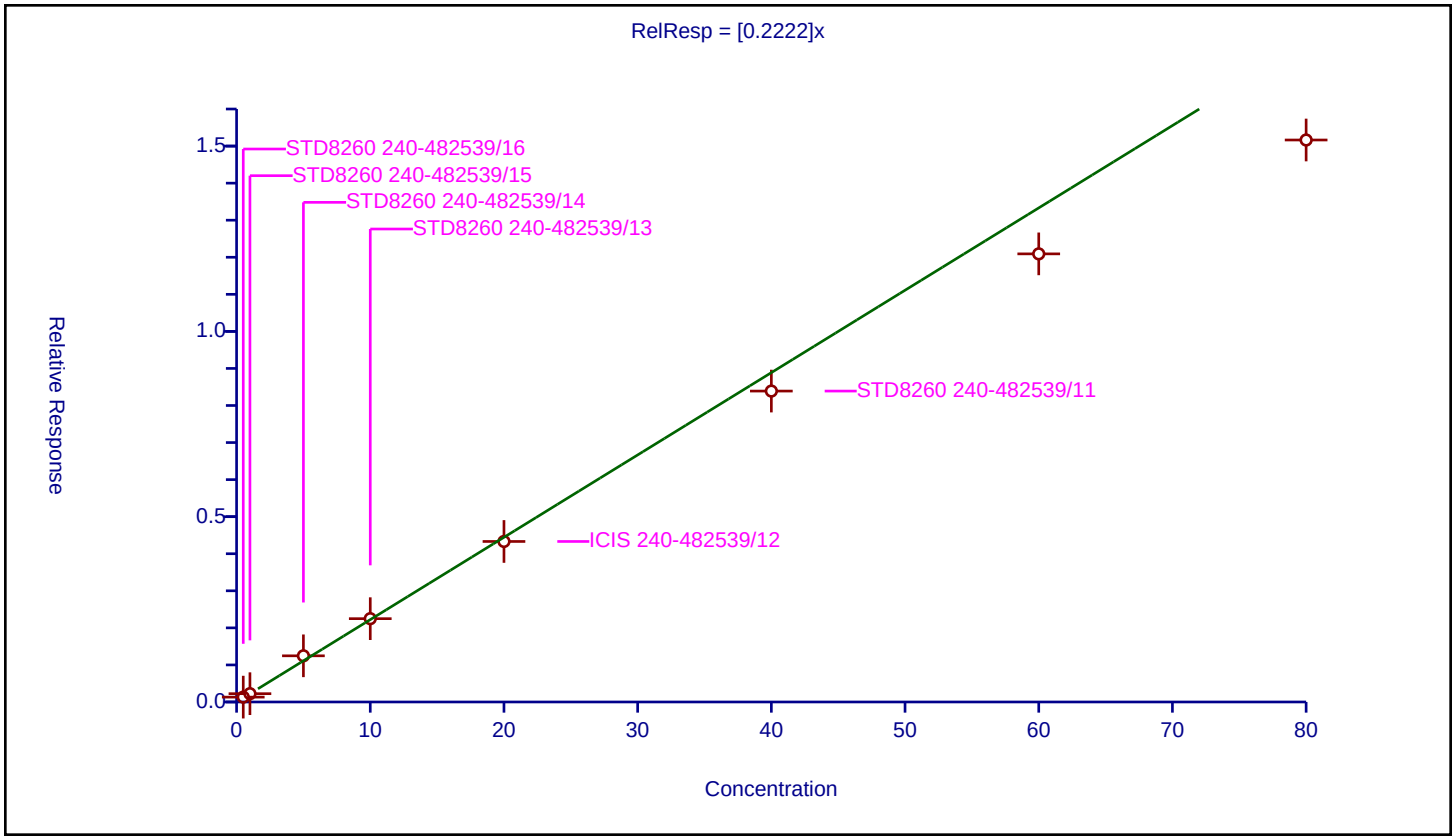
Curve Coefficients

Intercept:	0
Slope:	0.2222

Error Coefficients

Standard Error:	644000
Relative Standard Error:	10.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.1311	20.0	1103126.0	0.2622	Y
2	STD8260 240-482539/15	1.0	0.223906	20.0	1133064.0	0.223906	Y
3	STD8260 240-482539/14	5.0	1.245809	20.0	1285831.0	0.249162	Y
4	STD8260 240-482539/13	10.0	2.248452	20.0	1407911.0	0.224845	Y
5	ICIS 240-482539/12	20.0	4.331567	20.0	1453811.0	0.216578	Y
6	STD8260 240-482539/11	40.0	8.389766	20.0	1575479.0	0.209744	Y
7	STD8260 240-482539/10	60.0	12.09157	20.0	1594706.0	0.201526	Y
8	STD8260 240-482539/9	80.0	15.163544	20.0	1562115.0	0.189544	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

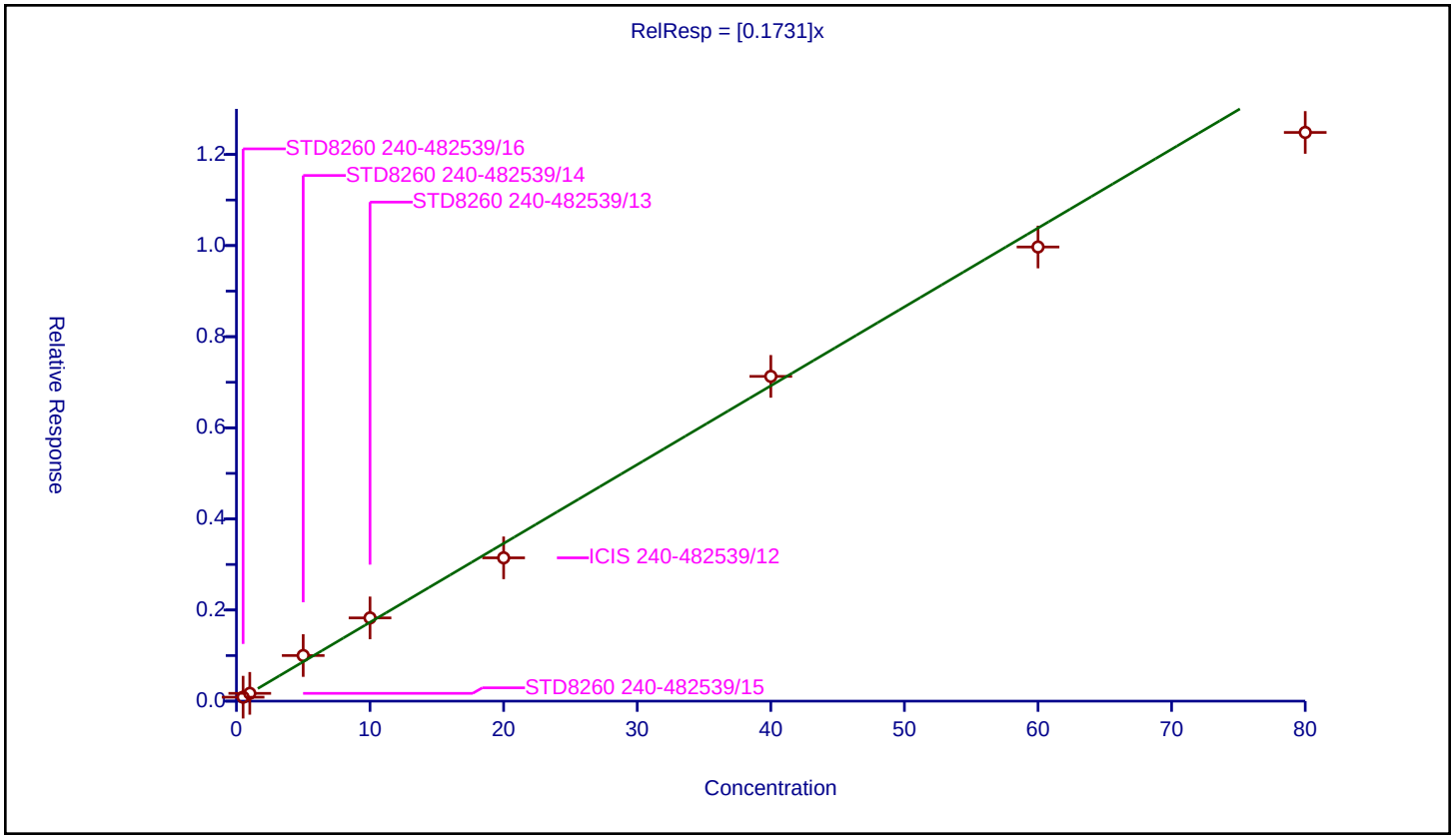
Curve Coefficients

Intercept:	0
Slope:	0.1731

Error Coefficients

Standard Error:	531000
Relative Standard Error:	8.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.086554	20.0	1103126.0	0.173108	Y
2	STD8260 240-482539/15	1.0	0.170829	20.0	1133064.0	0.170829	Y
3	STD8260 240-482539/14	5.0	1.001407	20.0	1285831.0	0.200281	Y
4	STD8260 240-482539/13	10.0	1.827019	20.0	1407911.0	0.182702	Y
5	ICIS 240-482539/12	20.0	3.145526	20.0	1453811.0	0.157276	Y
6	STD8260 240-482539/11	40.0	7.128727	20.0	1575479.0	0.178218	Y
7	STD8260 240-482539/10	60.0	9.968759	20.0	1594706.0	0.166146	Y
8	STD8260 240-482539/9	80.0	12.483396	20.0	1562115.0	0.156042	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

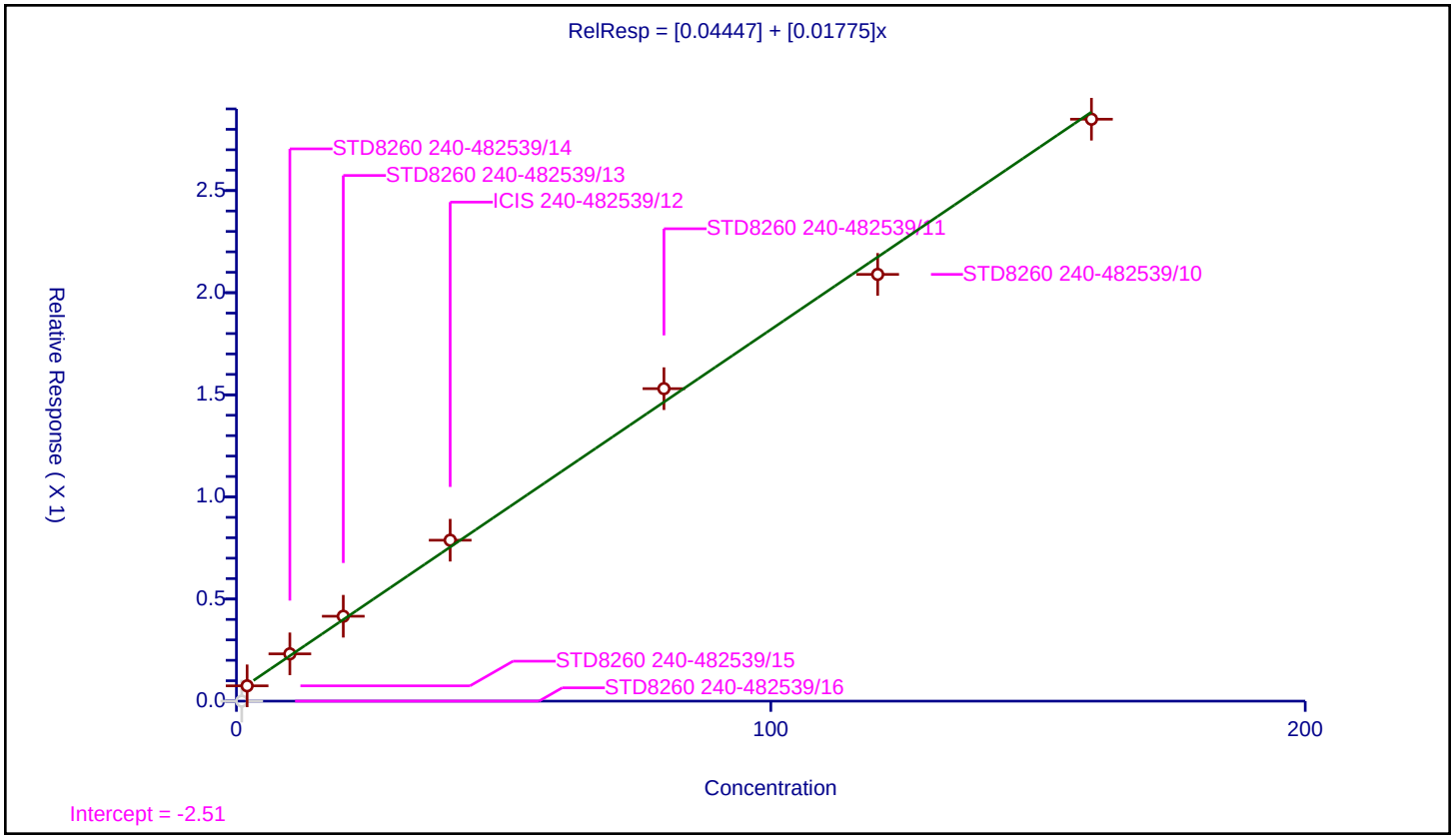
Curve Coefficients

Intercept:	0.04447
Slope:	0.01775

Error Coefficients

Standard Error:	139000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	1.0	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	2.0	0.074965	20.0	1133064.0	0.037482	Y
3	STD8260 240-482539/14	10.0	0.231617	20.0	1285831.0	0.023162	Y
4	STD8260 240-482539/13	20.0	0.41568	20.0	1407911.0	0.020784	Y
5	ICIS 240-482539/12	40.0	0.78808	20.0	1453811.0	0.019702	Y
6	STD8260 240-482539/11	80.0	1.5301	20.0	1575479.0	0.019126	Y
7	STD8260 240-482539/10	120.0	2.089627	20.0	1594706.0	0.017414	Y
8	STD8260 240-482539/9	160.0	2.84956	20.0	1562115.0	0.01781	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

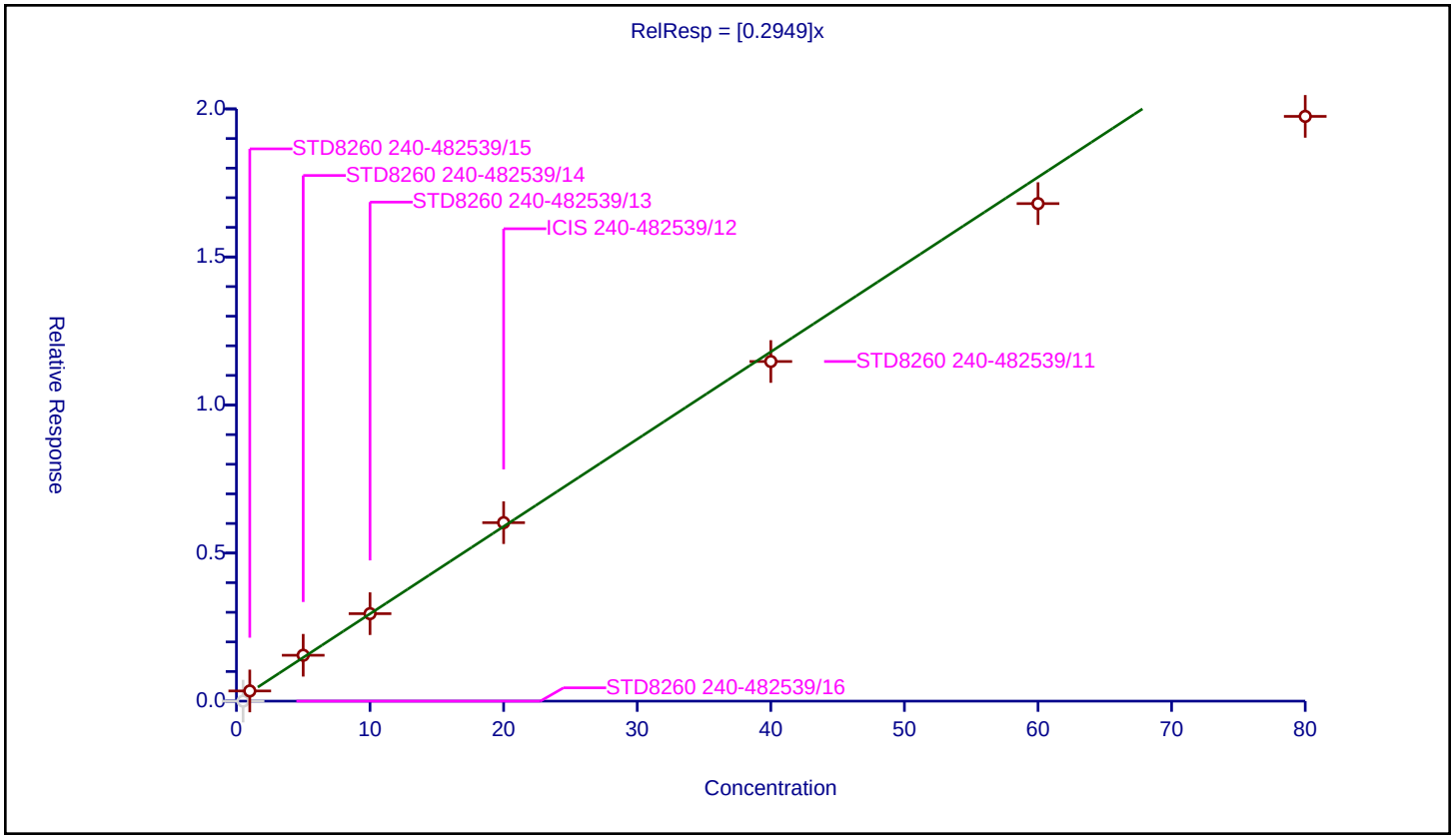
Curve Coefficients

Intercept:	0
Slope:	0.2949

Error Coefficients

Standard Error:	934000
Relative Standard Error:	10.1
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	1.0	0.344041	20.0	1133064.0	0.344041	Y
3	STD8260 240-482539/14	5.0	1.549535	20.0	1285831.0	0.309907	Y
4	STD8260 240-482539/13	10.0	2.953965	20.0	1407911.0	0.295397	Y
5	ICIS 240-482539/12	20.0	6.027909	20.0	1453811.0	0.301395	Y
6	STD8260 240-482539/11	40.0	11.469934	20.0	1575479.0	0.286748	Y
7	STD8260 240-482539/10	60.0	16.801655	20.0	1594706.0	0.280028	Y
8	STD8260 240-482539/9	80.0	19.74765	20.0	1562115.0	0.246846	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

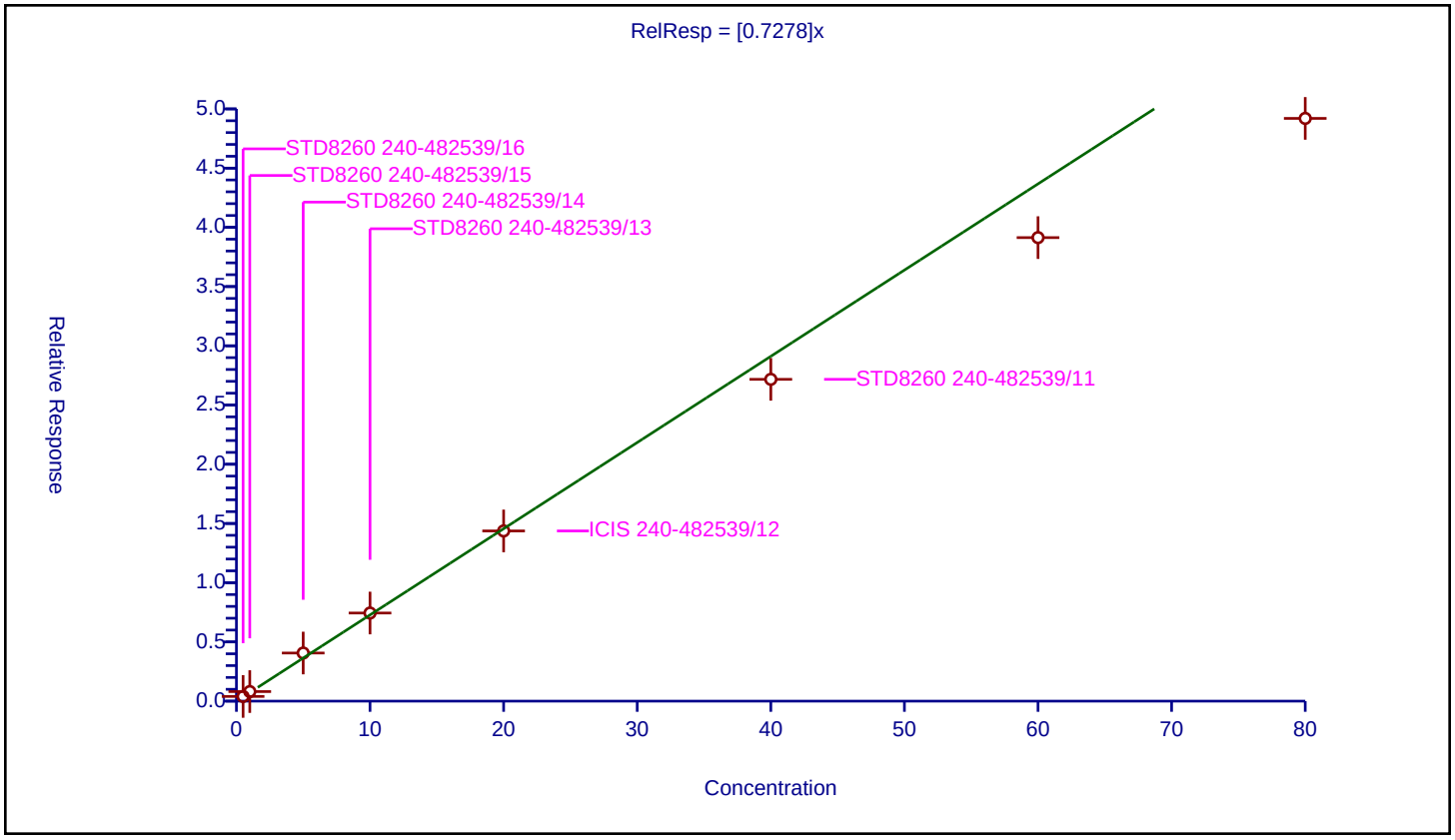
Curve Coefficients

Intercept:	0
Slope:	0.7278

Error Coefficients

Standard Error:	2090000
Relative Standard Error:	10.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.396147	20.0	1103126.0	0.792294	Y
2	STD8260 240-482539/15	1.0	0.808798	20.0	1133064.0	0.808798	Y
3	STD8260 240-482539/14	5.0	4.062587	20.0	1285831.0	0.812517	Y
4	STD8260 240-482539/13	10.0	7.438865	20.0	1407911.0	0.743887	Y
5	ICIS 240-482539/12	20.0	14.369227	20.0	1453811.0	0.718461	Y
6	STD8260 240-482539/11	40.0	27.167953	20.0	1575479.0	0.679199	Y
7	STD8260 240-482539/10	60.0	39.13199	20.0	1594706.0	0.6522	Y
8	STD8260 240-482539/9	80.0	49.196916	20.0	1562115.0	0.614961	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

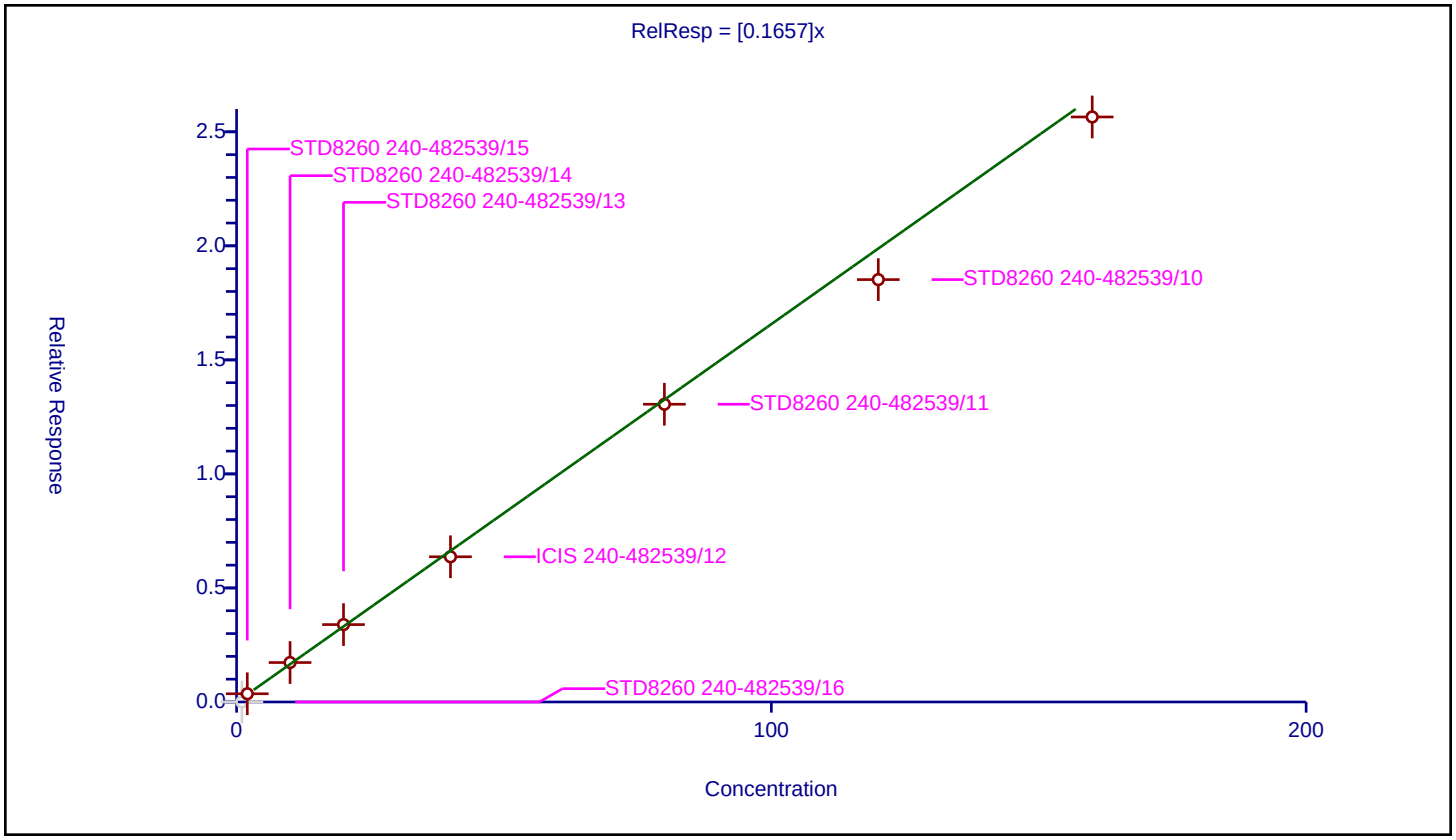
Curve Coefficients

Intercept:	0
Slope:	0.1657

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	1.0	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	2.0	0.360209	20.0	1133064.0	0.180105	Y
3	STD8260 240-482539/14	10.0	1.729419	20.0	1285831.0	0.172942	Y
4	STD8260 240-482539/13	20.0	3.394007	20.0	1407911.0	0.1697	Y
5	ICIS 240-482539/12	40.0	6.366839	20.0	1453811.0	0.159171	Y
6	STD8260 240-482539/11	80.0	13.054874	20.0	1575479.0	0.163186	Y
7	STD8260 240-482539/10	120.0	18.519802	20.0	1594706.0	0.154332	Y
8	STD8260 240-482539/9	160.0	25.651146	20.0	1562115.0	0.16032	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

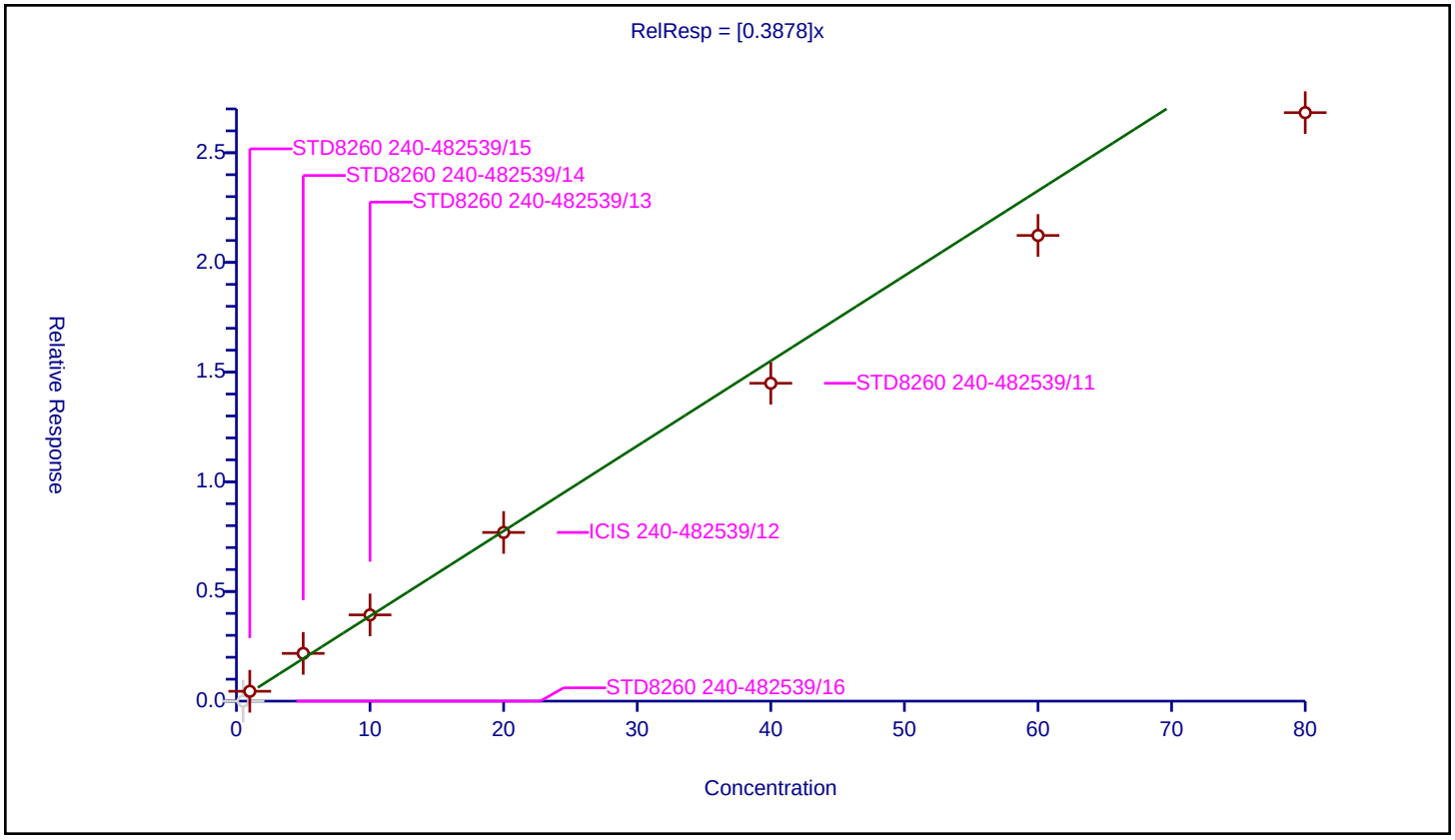
Curve Coefficients

Intercept:	0
Slope:	0.3878

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	10.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	1.0	0.450266	20.0	1133064.0	0.450266	Y
3	STD8260 240-482539/14	5.0	2.175978	20.0	1285831.0	0.435196	Y
4	STD8260 240-482539/13	10.0	3.931243	20.0	1407911.0	0.393124	Y
5	ICIS 240-482539/12	20.0	7.689789	20.0	1453811.0	0.384489	Y
6	STD8260 240-482539/11	40.0	14.492189	20.0	1575479.0	0.362305	Y
7	STD8260 240-482539/10	60.0	21.229894	20.0	1594706.0	0.353832	Y
8	STD8260 240-482539/9	80.0	26.828819	20.0	1562115.0	0.33536	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

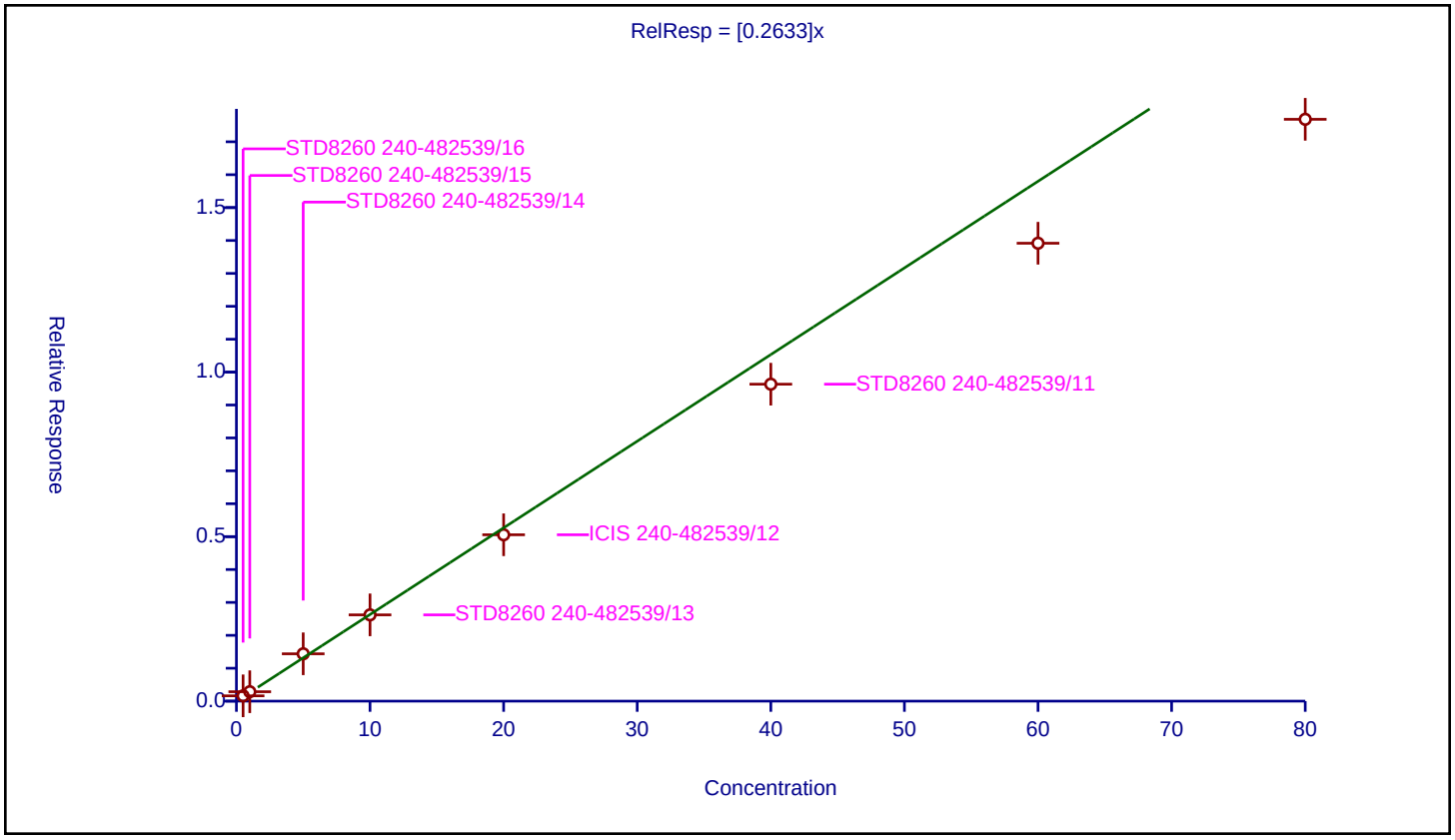
Curve Coefficients

Intercept:	0
Slope:	0.2633

Error Coefficients

Standard Error:	746000
Relative Standard Error:	13.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.161849	20.0	1103126.0	0.323698	Y
2	STD8260 240-482539/15	1.0	0.286215	20.0	1133064.0	0.286215	Y
3	STD8260 240-482539/14	5.0	1.438867	20.0	1285831.0	0.287773	Y
4	STD8260 240-482539/13	10.0	2.622367	20.0	1407911.0	0.262237	Y
5	ICIS 240-482539/12	20.0	5.056022	20.0	1453811.0	0.252801	Y
6	STD8260 240-482539/11	40.0	9.633553	20.0	1575479.0	0.240839	Y
7	STD8260 240-482539/10	60.0	13.916722	20.0	1594706.0	0.231945	Y
8	STD8260 240-482539/9	80.0	17.683359	20.0	1562115.0	0.221042	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

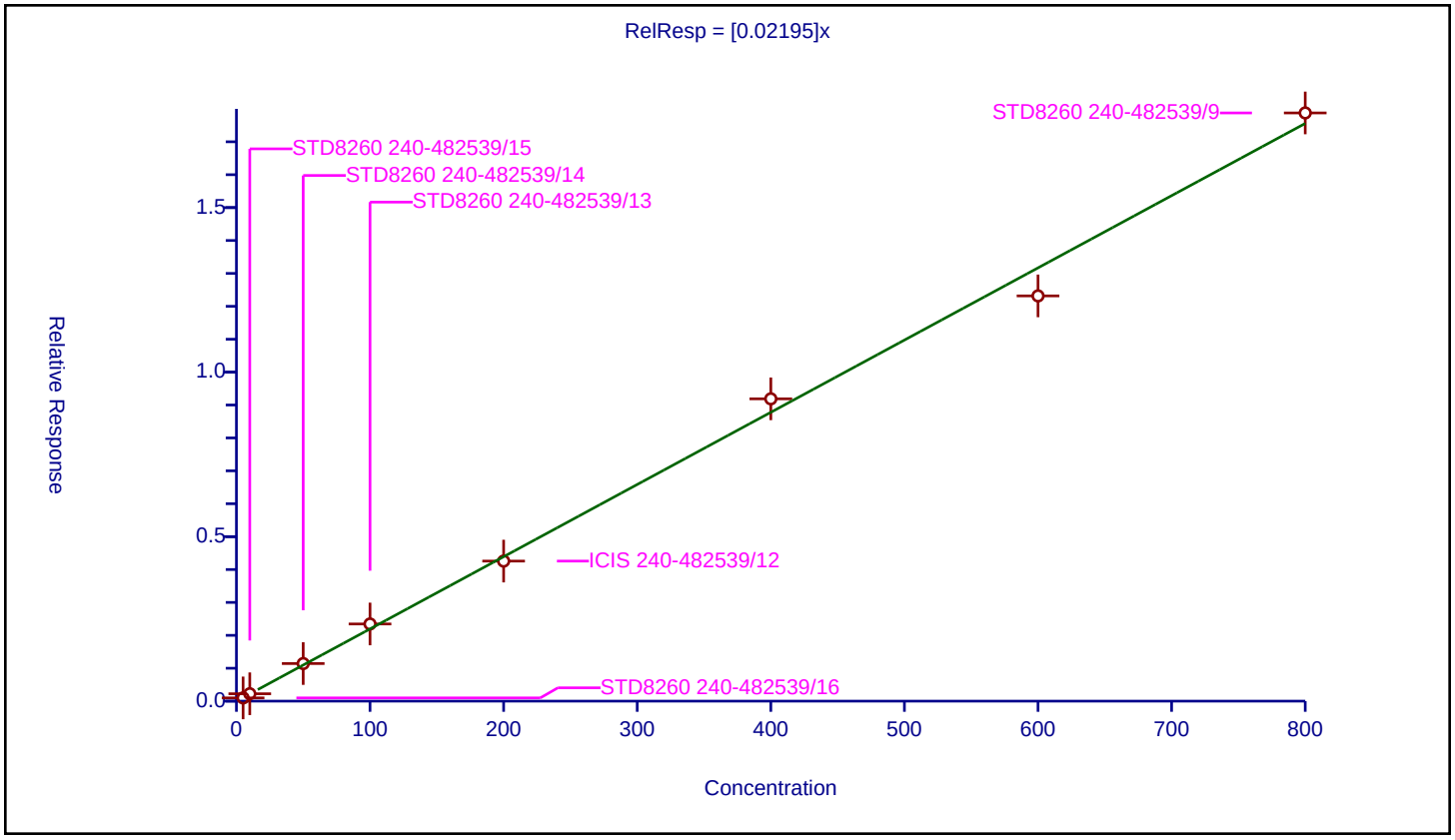
Curve Coefficients

Intercept:	0
Slope:	0.02195

Error Coefficients

Standard Error:	714000
Relative Standard Error:	6.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	5.0	0.098502	20.0	1103126.0	0.0197	Y
2	STD8260 240-482539/15	10.0	0.224506	20.0	1133064.0	0.022451	Y
3	STD8260 240-482539/14	50.0	1.142265	20.0	1285831.0	0.022845	Y
4	STD8260 240-482539/13	100.0	2.345106	20.0	1407911.0	0.023451	Y
5	ICIS 240-482539/12	200.0	4.256922	20.0	1453811.0	0.021285	Y
6	STD8260 240-482539/11	400.0	9.187923	20.0	1575479.0	0.02297	Y
7	STD8260 240-482539/10	600.0	12.316364	20.0	1594706.0	0.020527	Y
8	STD8260 240-482539/9	800.0	17.876597	20.0	1562115.0	0.022346	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

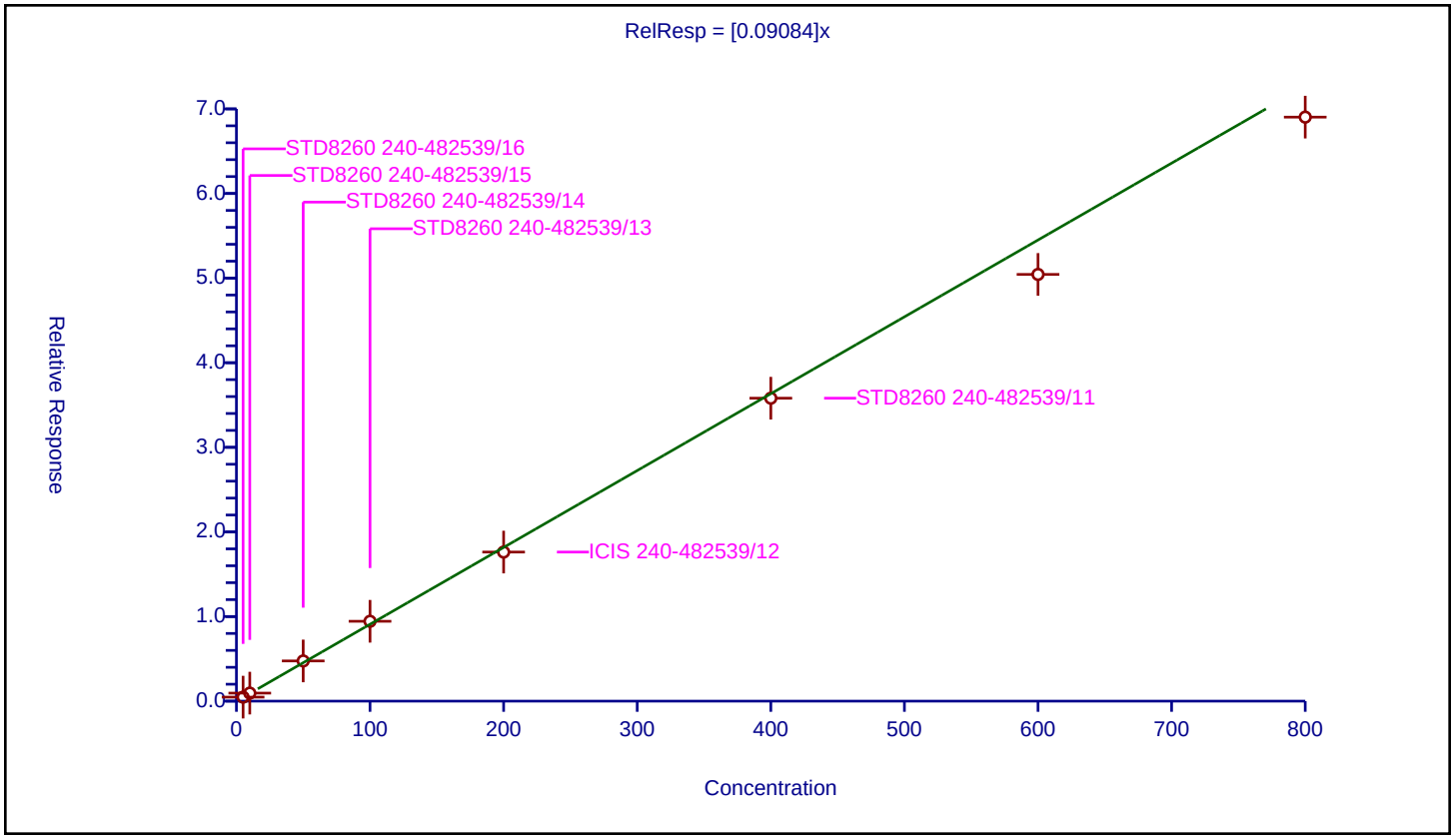
Curve Coefficients

Intercept:	0
Slope:	0.09084

Error Coefficients

Standard Error:	2810000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	5.0	0.472838	20.0	1103126.0	0.094568	Y
2	STD8260 240-482539/15	10.0	0.947643	20.0	1133064.0	0.094764	Y
3	STD8260 240-482539/14	50.0	4.750935	20.0	1285831.0	0.095019	Y
4	STD8260 240-482539/13	100.0	9.439361	20.0	1407911.0	0.094394	Y
5	ICIS 240-482539/12	200.0	17.620406	20.0	1453811.0	0.088102	Y
6	STD8260 240-482539/11	400.0	35.807205	20.0	1575479.0	0.089518	Y
7	STD8260 240-482539/10	600.0	50.435905	20.0	1594706.0	0.08406	Y
8	STD8260 240-482539/9	800.0	69.028029	20.0	1562115.0	0.086285	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

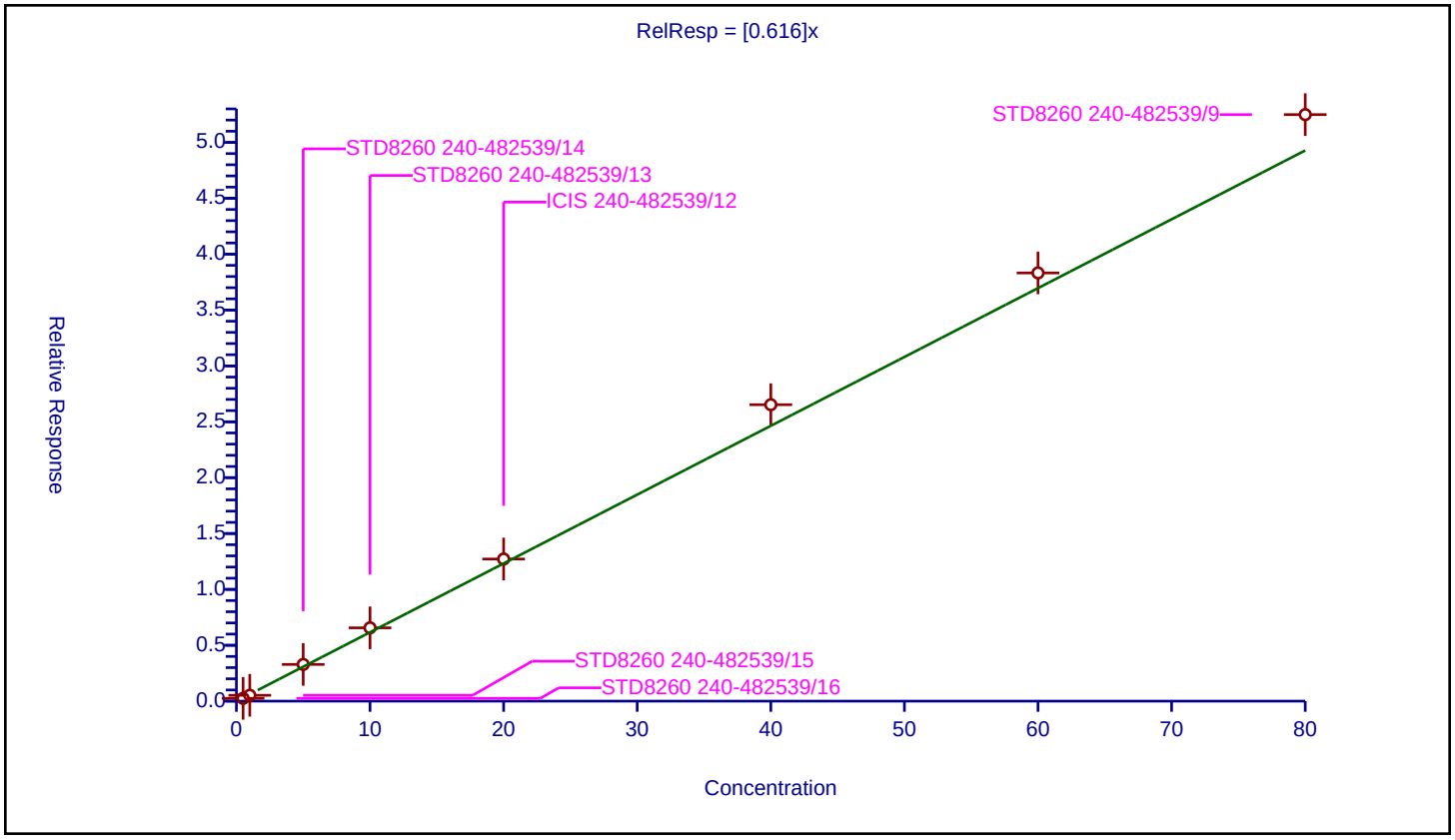
Curve Coefficients

Intercept:	0
Slope:	0.616

Error Coefficients

Standard Error:	2130000
Relative Standard Error:	10.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.248621	20.0	1103126.0	0.497241	Y
2	STD8260 240-482539/15	1.0	0.52366	20.0	1133064.0	0.52366	Y
3	STD8260 240-482539/14	5.0	3.285751	20.0	1285831.0	0.65715	Y
4	STD8260 240-482539/13	10.0	6.561281	20.0	1407911.0	0.656128	Y
5	ICIS 240-482539/12	20.0	12.715862	20.0	1453811.0	0.635793	Y
6	STD8260 240-482539/11	40.0	26.528872	20.0	1575479.0	0.663222	Y
7	STD8260 240-482539/10	60.0	38.320643	20.0	1594706.0	0.638677	Y
8	STD8260 240-482539/9	80.0	52.488568	20.0	1562115.0	0.656107	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

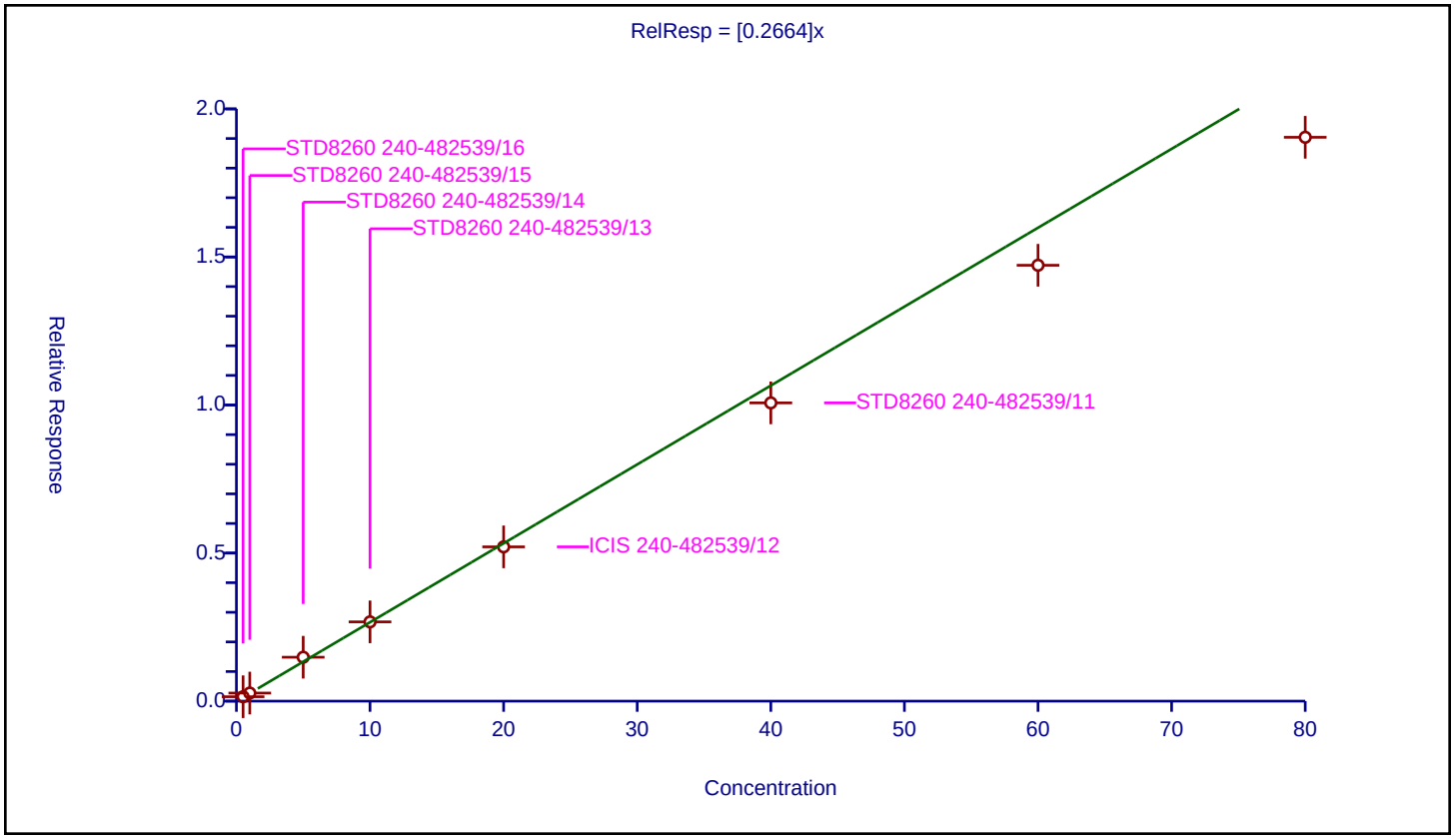
Curve Coefficients

Intercept:	0
Slope:	0.2664

Error Coefficients

Standard Error:	793000
Relative Standard Error:	8.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.149212	20.0	1103126.0	0.298425	Y
2	STD8260 240-482539/15	1.0	0.273012	20.0	1133064.0	0.273012	Y
3	STD8260 240-482539/14	5.0	1.483056	20.0	1285831.0	0.296611	Y
4	STD8260 240-482539/13	10.0	2.676987	20.0	1407911.0	0.267699	Y
5	ICIS 240-482539/12	20.0	5.210306	20.0	1453811.0	0.260515	Y
6	STD8260 240-482539/11	40.0	10.072086	20.0	1575479.0	0.251802	Y
7	STD8260 240-482539/10	60.0	14.71993	20.0	1594706.0	0.245332	Y
8	STD8260 240-482539/9	80.0	19.041543	20.0	1562115.0	0.238019	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

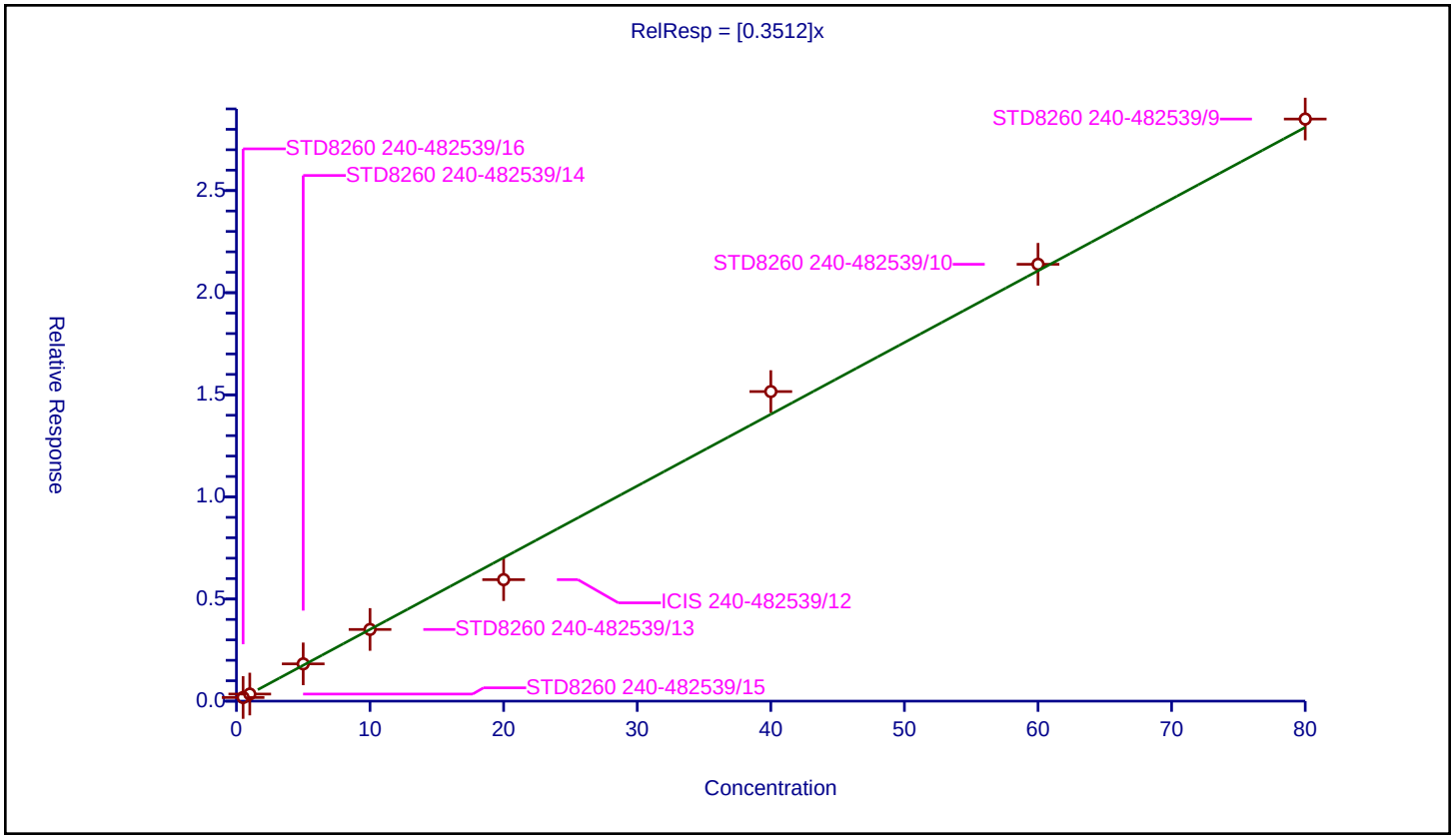
Curve Coefficients

Intercept:	0
Slope:	0.3512

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	6.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.178348	20.0	1103126.0	0.356695	Y
2	STD8260 240-482539/15	1.0	0.347712	20.0	1133064.0	0.347712	Y
3	STD8260 240-482539/14	5.0	1.824657	20.0	1285831.0	0.364931	Y
4	STD8260 240-482539/13	10.0	3.510762	20.0	1407911.0	0.351076	Y
5	ICIS 240-482539/12	20.0	5.948297	20.0	1453811.0	0.297415	Y
6	STD8260 240-482539/11	40.0	15.158603	20.0	1575479.0	0.378965	Y
7	STD8260 240-482539/10	60.0	21.391404	20.0	1594706.0	0.356523	Y
8	STD8260 240-482539/9	80.0	28.503702	20.0	1562115.0	0.356296	Y



Calibration / Vinyl acetate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

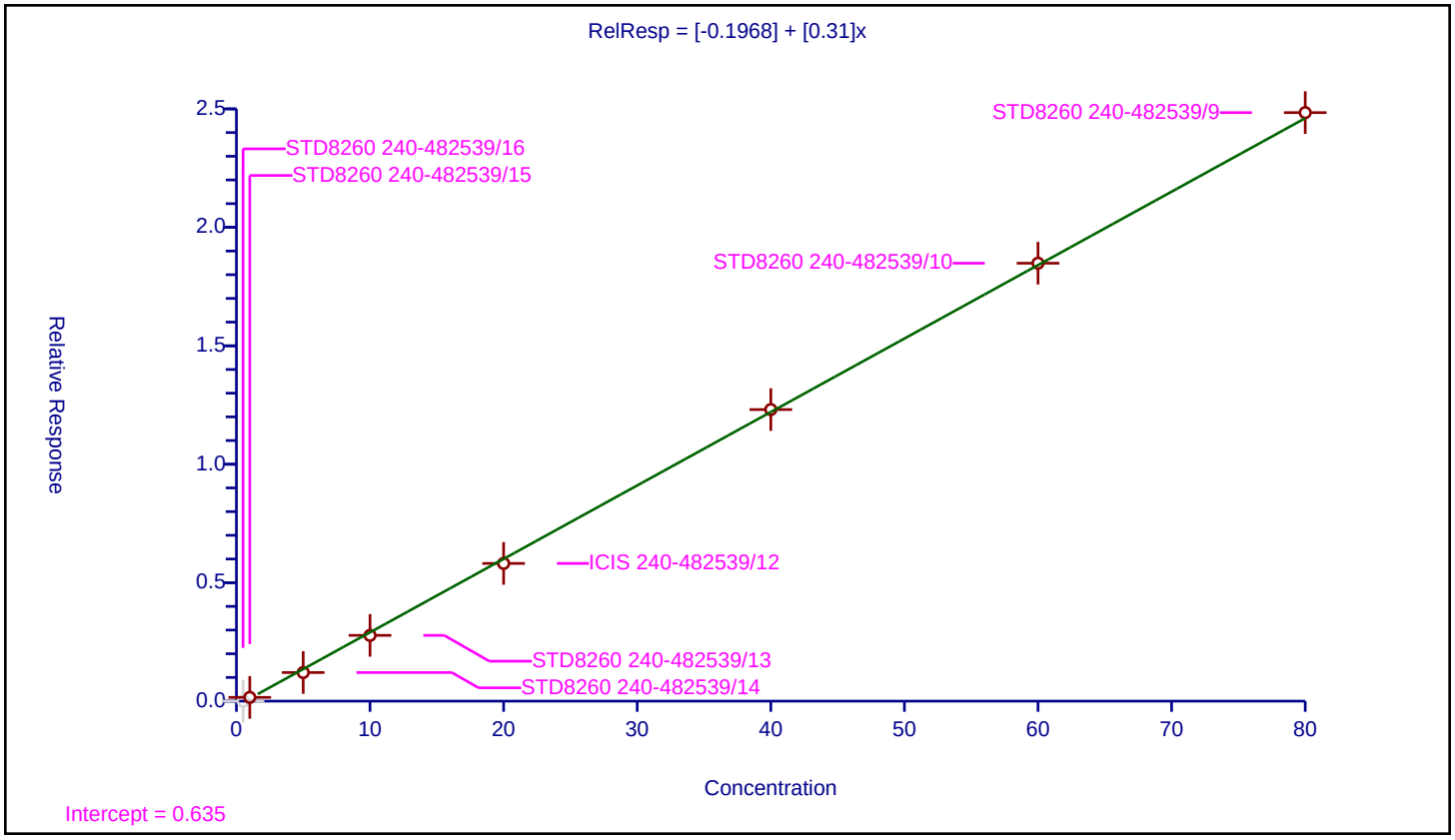
Curve Coefficients

Intercept:	-0.1968
Slope:	0.31

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	1.0	0.157696	20.0	1133064.0	0.157696	Y
3	STD8260 240-482539/14	5.0	1.208386	20.0	1285831.0	0.241677	Y
4	STD8260 240-482539/13	10.0	2.776085	20.0	1407911.0	0.277608	Y
5	ICIS 240-482539/12	20.0	5.812626	20.0	1453811.0	0.290631	Y
6	STD8260 240-482539/11	40.0	12.307711	20.0	1575479.0	0.307693	Y
7	STD8260 240-482539/10	60.0	18.485903	20.0	1594706.0	0.308098	Y
8	STD8260 240-482539/9	80.0	24.842294	20.0	1562115.0	0.310529	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

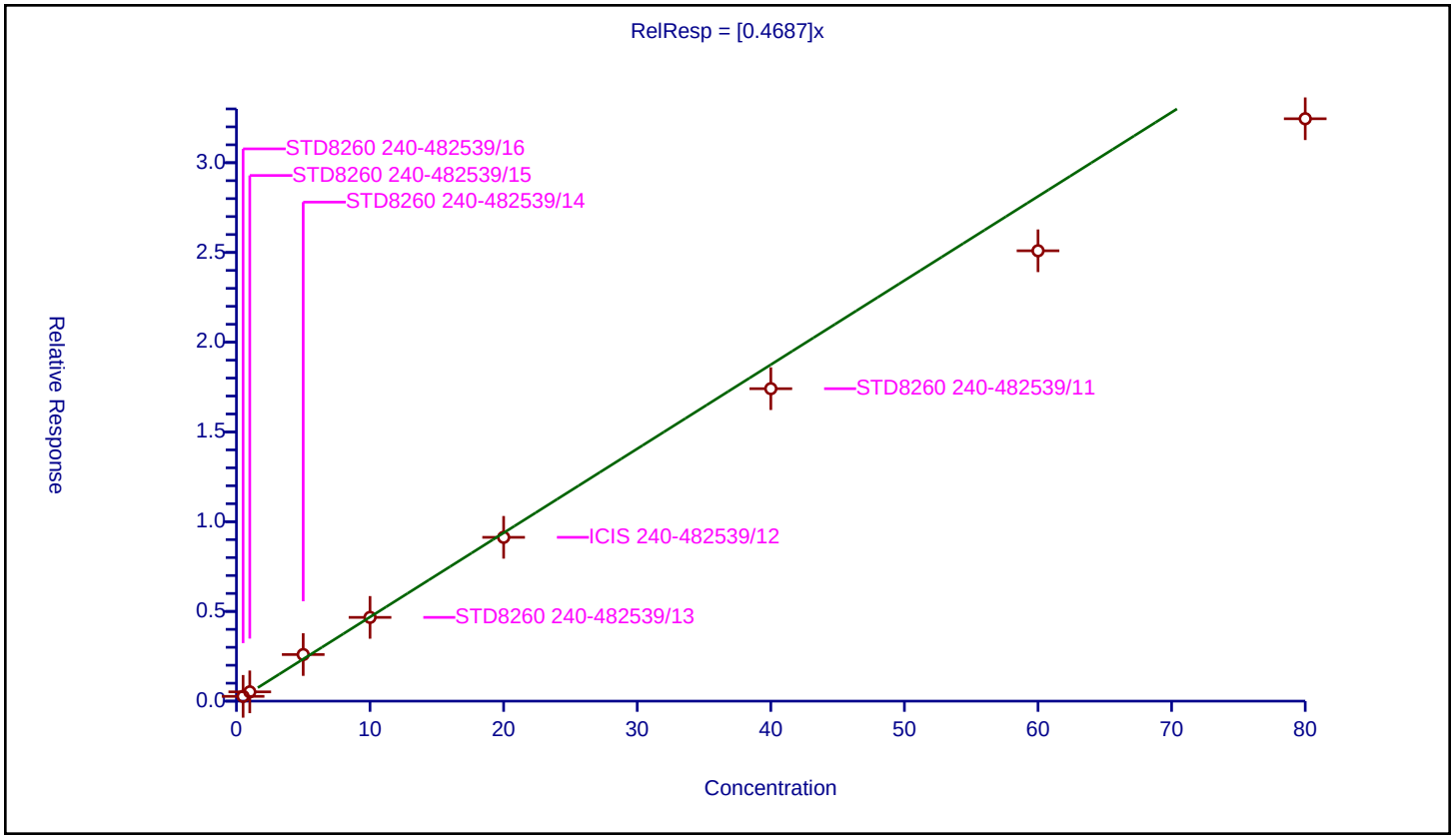
Curve Coefficients

Intercept:	0
Slope:	0.4687

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.265754	20.0	1103126.0	0.531508	Y
2	STD8260 240-482539/15	1.0	0.516776	20.0	1133064.0	0.516776	Y
3	STD8260 240-482539/14	5.0	2.596811	20.0	1285831.0	0.519362	Y
4	STD8260 240-482539/13	10.0	4.666943	20.0	1407911.0	0.466694	Y
5	ICIS 240-482539/12	20.0	9.127294	20.0	1453811.0	0.456365	Y
6	STD8260 240-482539/11	40.0	17.410337	20.0	1575479.0	0.435258	Y
7	STD8260 240-482539/10	60.0	25.095083	20.0	1594706.0	0.418251	Y
8	STD8260 240-482539/9	80.0	32.451606	20.0	1562115.0	0.405645	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

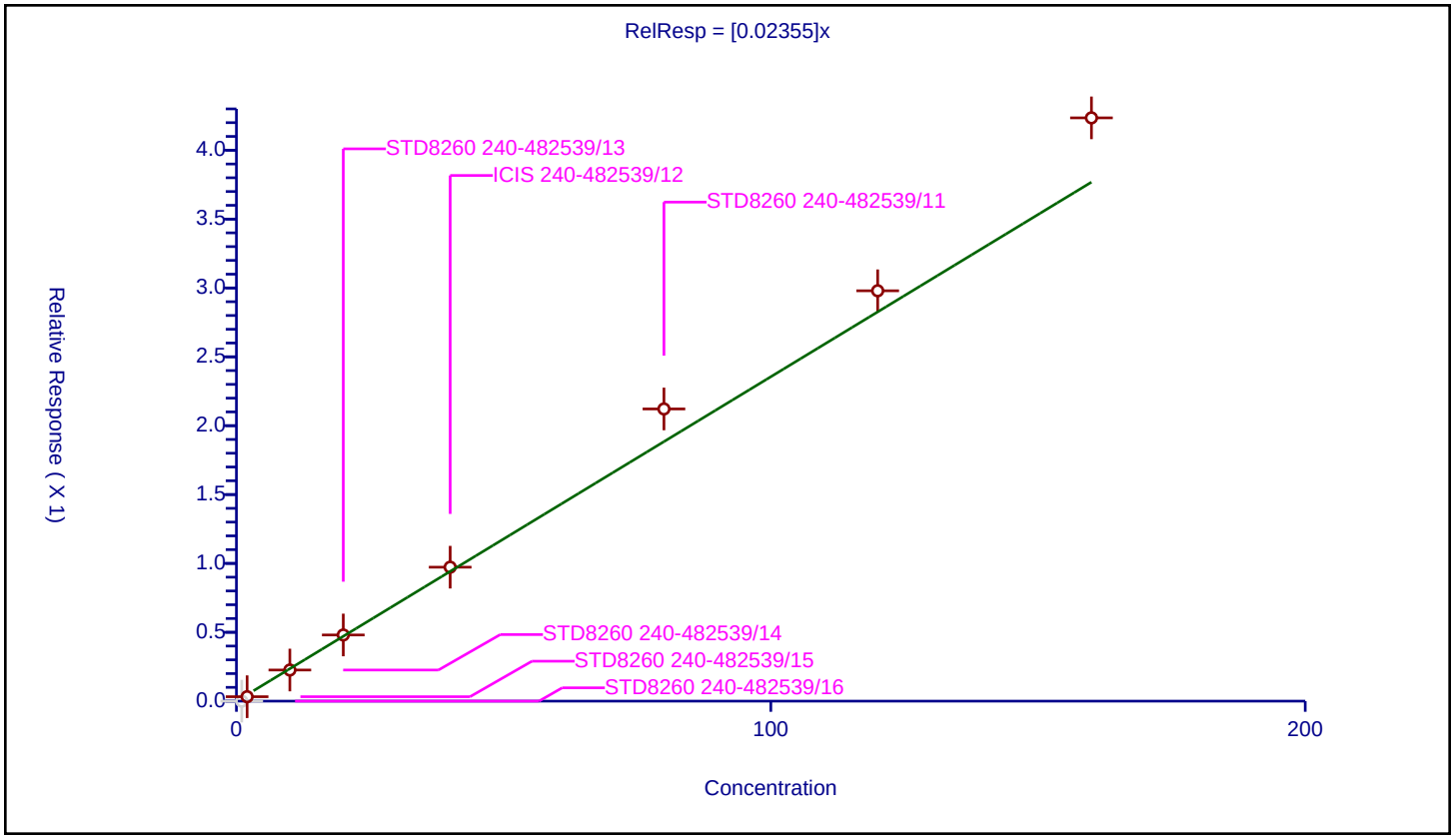
Curve Coefficients

Intercept:	0
Slope:	0.02355

Error Coefficients

Standard Error:	183000
Relative Standard Error:	15.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	1.0	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	2.0	0.032214	20.0	1133064.0	0.016107	Y
3	STD8260 240-482539/14	10.0	0.226033	20.0	1285831.0	0.022603	Y
4	STD8260 240-482539/13	20.0	0.4804	20.0	1407911.0	0.02402	Y
5	ICIS 240-482539/12	40.0	0.972575	20.0	1453811.0	0.024314	Y
6	STD8260 240-482539/11	80.0	2.121425	20.0	1575479.0	0.026518	Y
7	STD8260 240-482539/10	120.0	2.979458	20.0	1594706.0	0.024829	Y
8	STD8260 240-482539/9	160.0	4.234899	20.0	1562115.0	0.026468	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

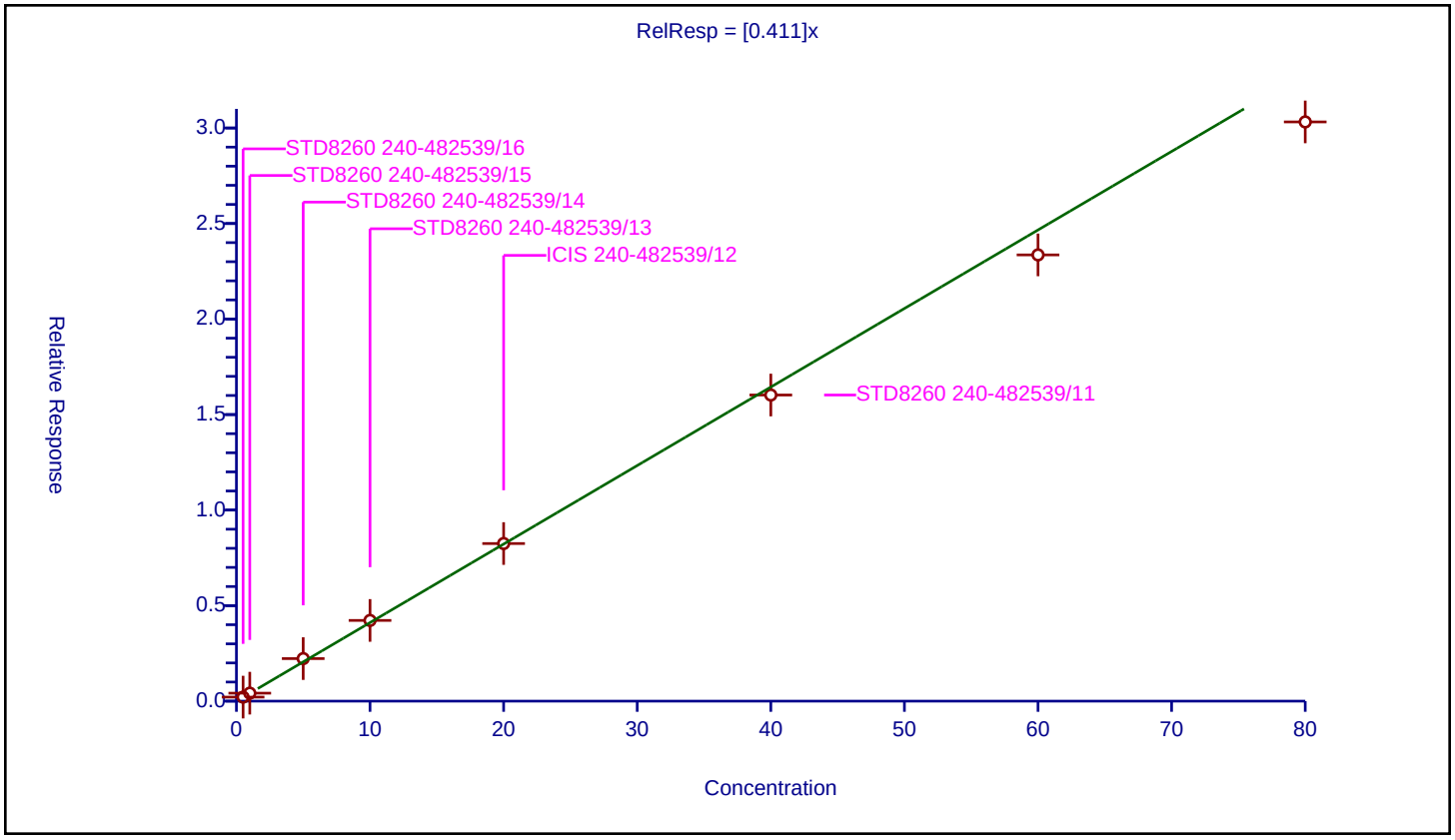
Curve Coefficients

Intercept:	0
Slope:	0.411

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.210783	20.0	1103126.0	0.421566	Y
2	STD8260 240-482539/15	1.0	0.41754	20.0	1133064.0	0.41754	Y
3	STD8260 240-482539/14	5.0	2.226871	20.0	1285831.0	0.445374	Y
4	STD8260 240-482539/13	10.0	4.225367	20.0	1407911.0	0.422537	Y
5	ICIS 240-482539/12	20.0	8.248981	20.0	1453811.0	0.412449	Y
6	STD8260 240-482539/11	40.0	16.023622	20.0	1575479.0	0.400591	Y
7	STD8260 240-482539/10	60.0	23.357948	20.0	1594706.0	0.389299	Y
8	STD8260 240-482539/9	80.0	30.317614	20.0	1562115.0	0.37897	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

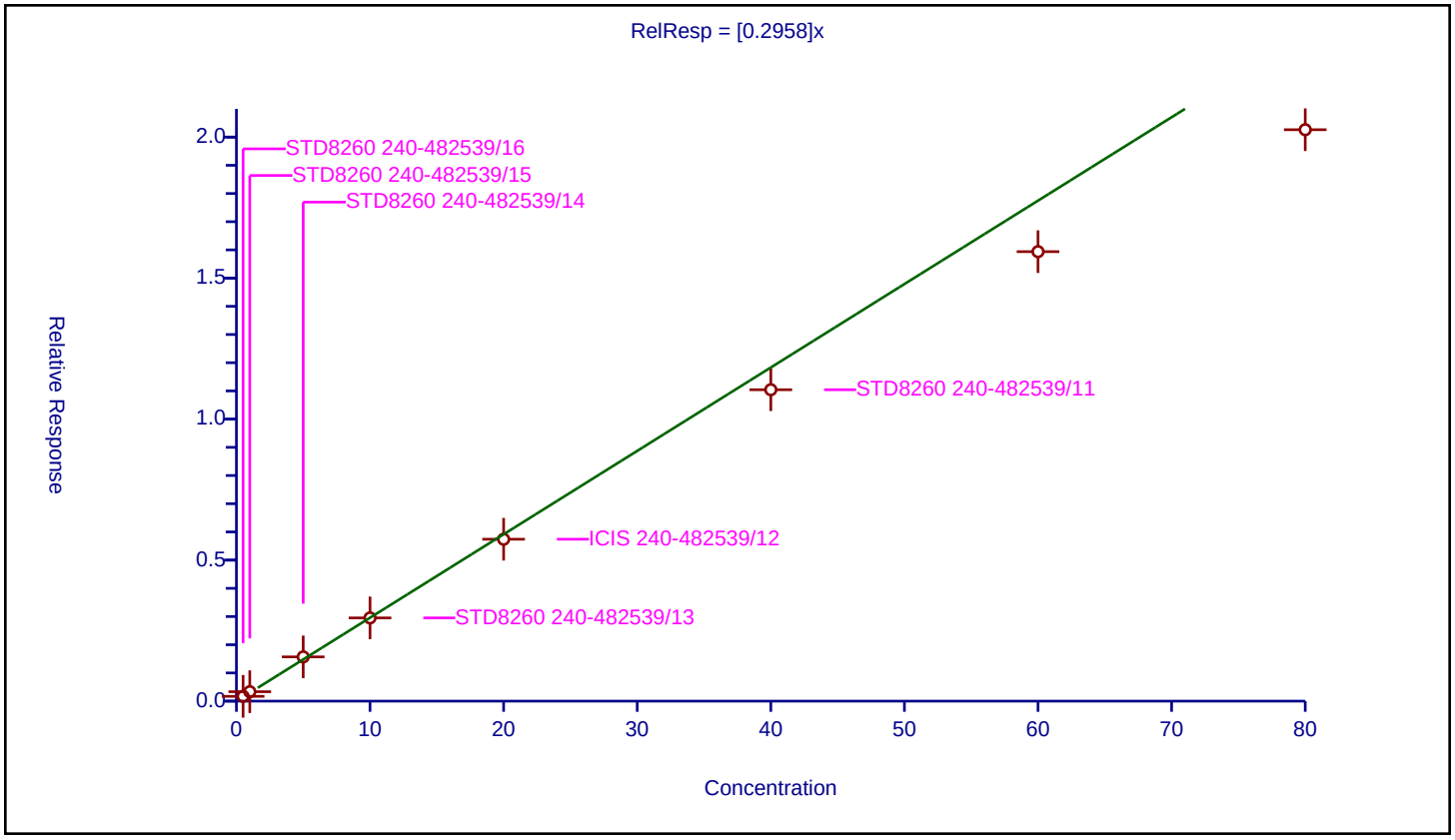
Curve Coefficients

Intercept:	0
Slope:	0.2958

Error Coefficients

Standard Error:	854000
Relative Standard Error:	10.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.170425	20.0	1103126.0	0.34085	Y
2	STD8260 240-482539/15	1.0	0.334385	20.0	1133064.0	0.334385	Y
3	STD8260 240-482539/14	5.0	1.569102	20.0	1285831.0	0.31382	Y
4	STD8260 240-482539/13	10.0	2.951025	20.0	1407911.0	0.295102	Y
5	ICIS 240-482539/12	20.0	5.741104	20.0	1453811.0	0.287055	Y
6	STD8260 240-482539/11	40.0	11.042534	20.0	1575479.0	0.276063	Y
7	STD8260 240-482539/10	60.0	15.938198	20.0	1594706.0	0.265637	Y
8	STD8260 240-482539/9	80.0	20.261364	20.0	1562115.0	0.253267	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

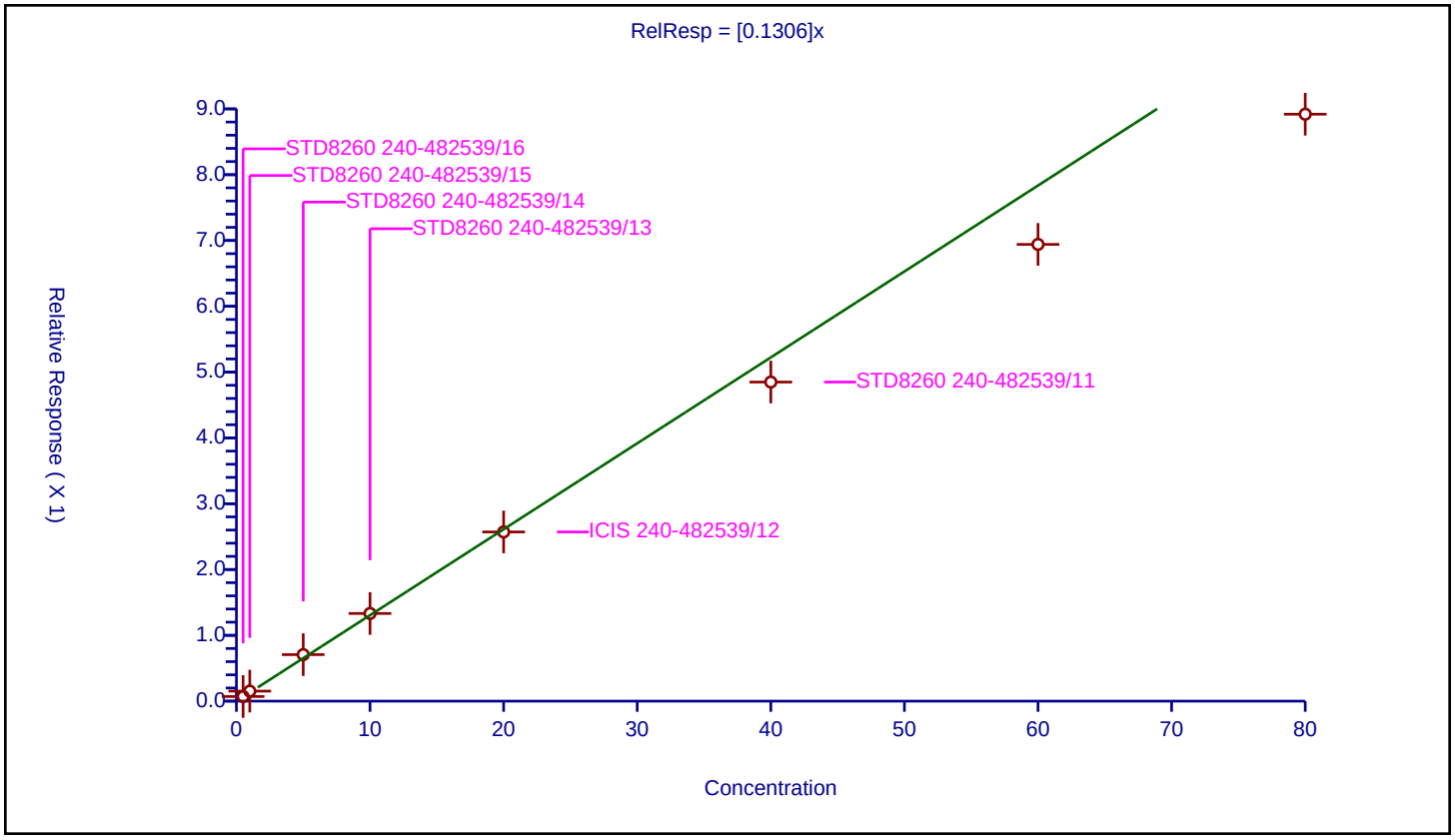
Curve Coefficients

Intercept:	0
Slope:	0.1306

Error Coefficients

Standard Error:	375000
Relative Standard Error:	10.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.070418	20.0	1103126.0	0.140836	Y
2	STD8260 240-482539/15	1.0	0.152313	20.0	1133064.0	0.152313	Y
3	STD8260 240-482539/14	5.0	0.706765	20.0	1285831.0	0.141353	Y
4	STD8260 240-482539/13	10.0	1.3324	20.0	1407911.0	0.13324	Y
5	ICIS 240-482539/12	20.0	2.571146	20.0	1453811.0	0.128557	Y
6	STD8260 240-482539/11	40.0	4.849116	20.0	1575479.0	0.121228	Y
7	STD8260 240-482539/10	60.0	6.940753	20.0	1594706.0	0.115679	Y
8	STD8260 240-482539/9	80.0	8.91951	20.0	1562115.0	0.111494	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

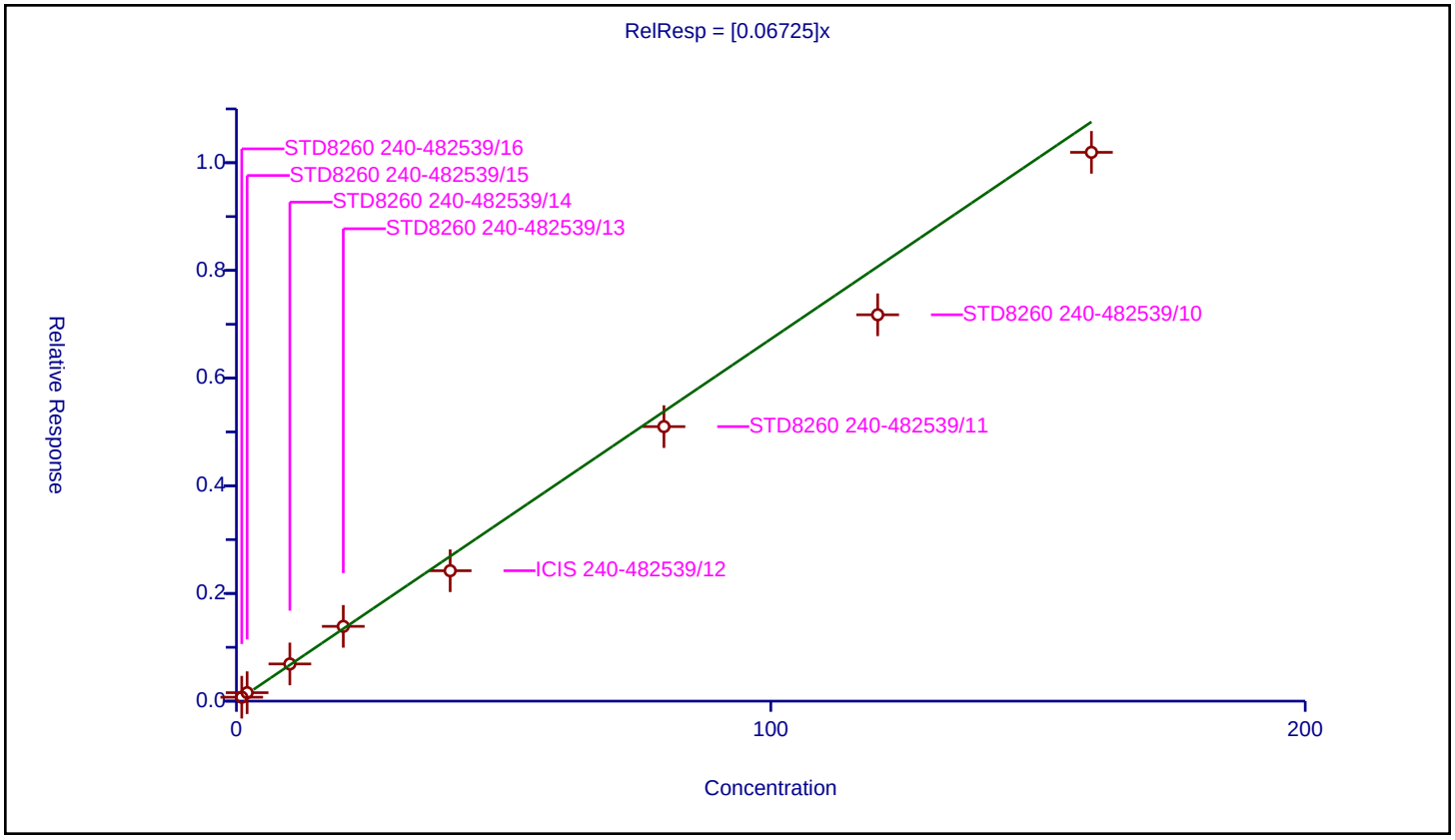
Curve Coefficients

Intercept:	0
Slope:	0.06725

Error Coefficients

Standard Error:	408000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	1.0	0.073119	20.0	1103126.0	0.073119	Y
2	STD8260 240-482539/15	2.0	0.157079	20.0	1133064.0	0.078539	Y
3	STD8260 240-482539/14	10.0	0.690915	20.0	1285831.0	0.069092	Y
4	STD8260 240-482539/13	20.0	1.388866	20.0	1407911.0	0.069443	Y
5	ICIS 240-482539/12	40.0	2.422131	20.0	1453811.0	0.060553	Y
6	STD8260 240-482539/11	80.0	5.098805	20.0	1575479.0	0.063735	Y
7	STD8260 240-482539/10	120.0	7.176069	20.0	1594706.0	0.059801	Y
8	STD8260 240-482539/9	160.0	10.193385	20.0	1562115.0	0.063709	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

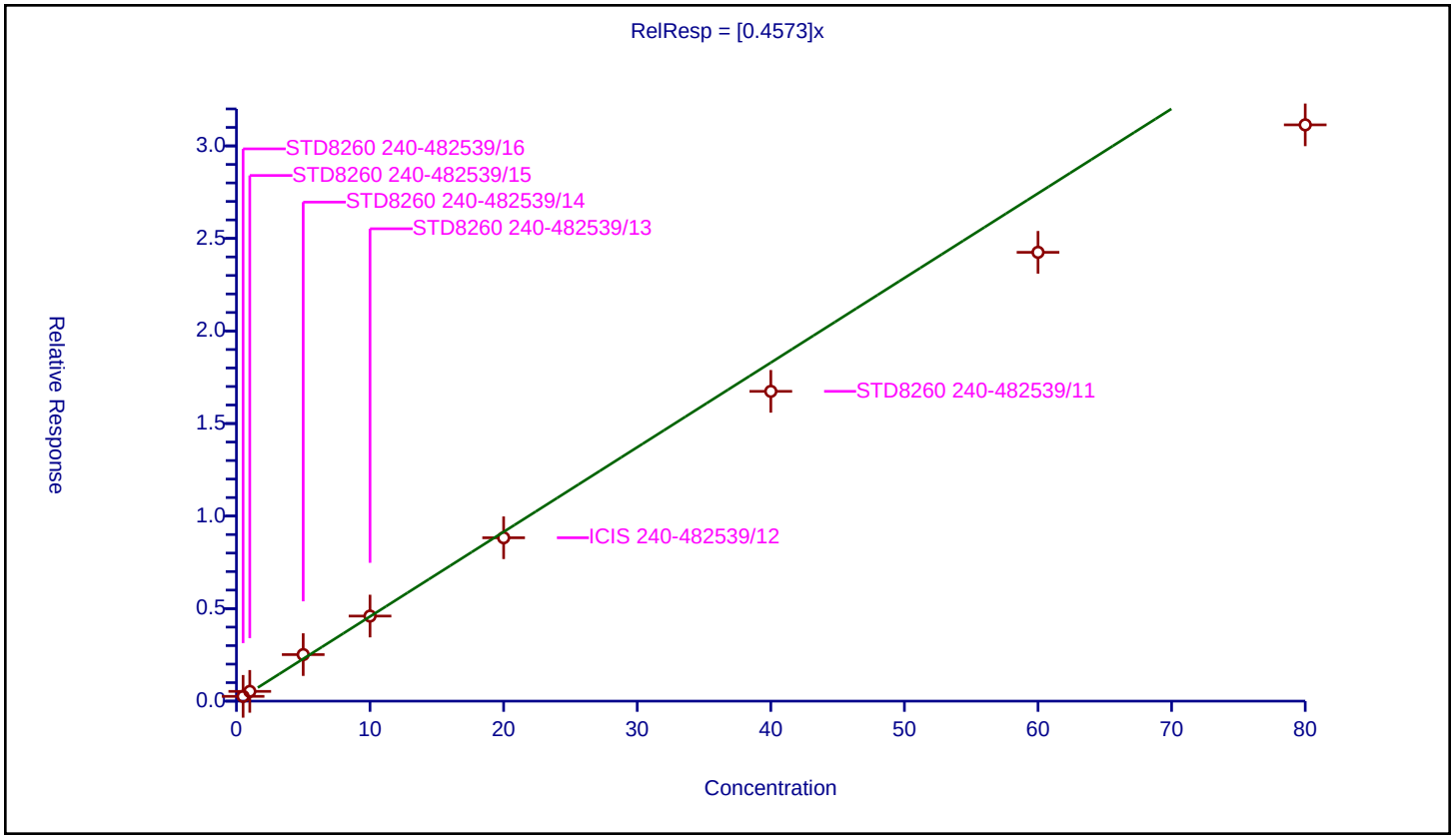
Curve Coefficients

Intercept:	0
Slope:	0.4573

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	11.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.257613	20.0	1103126.0	0.515227	Y
2	STD8260 240-482539/15	1.0	0.527066	20.0	1133064.0	0.527066	Y
3	STD8260 240-482539/14	5.0	2.514312	20.0	1285831.0	0.502862	Y
4	STD8260 240-482539/13	10.0	4.596697	20.0	1407911.0	0.45967	Y
5	ICIS 240-482539/12	20.0	8.827736	20.0	1453811.0	0.441387	Y
6	STD8260 240-482539/11	40.0	16.73877	20.0	1575479.0	0.418469	Y
7	STD8260 240-482539/10	60.0	24.250388	20.0	1594706.0	0.404173	Y
8	STD8260 240-482539/9	80.0	31.137387	20.0	1562115.0	0.389217	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

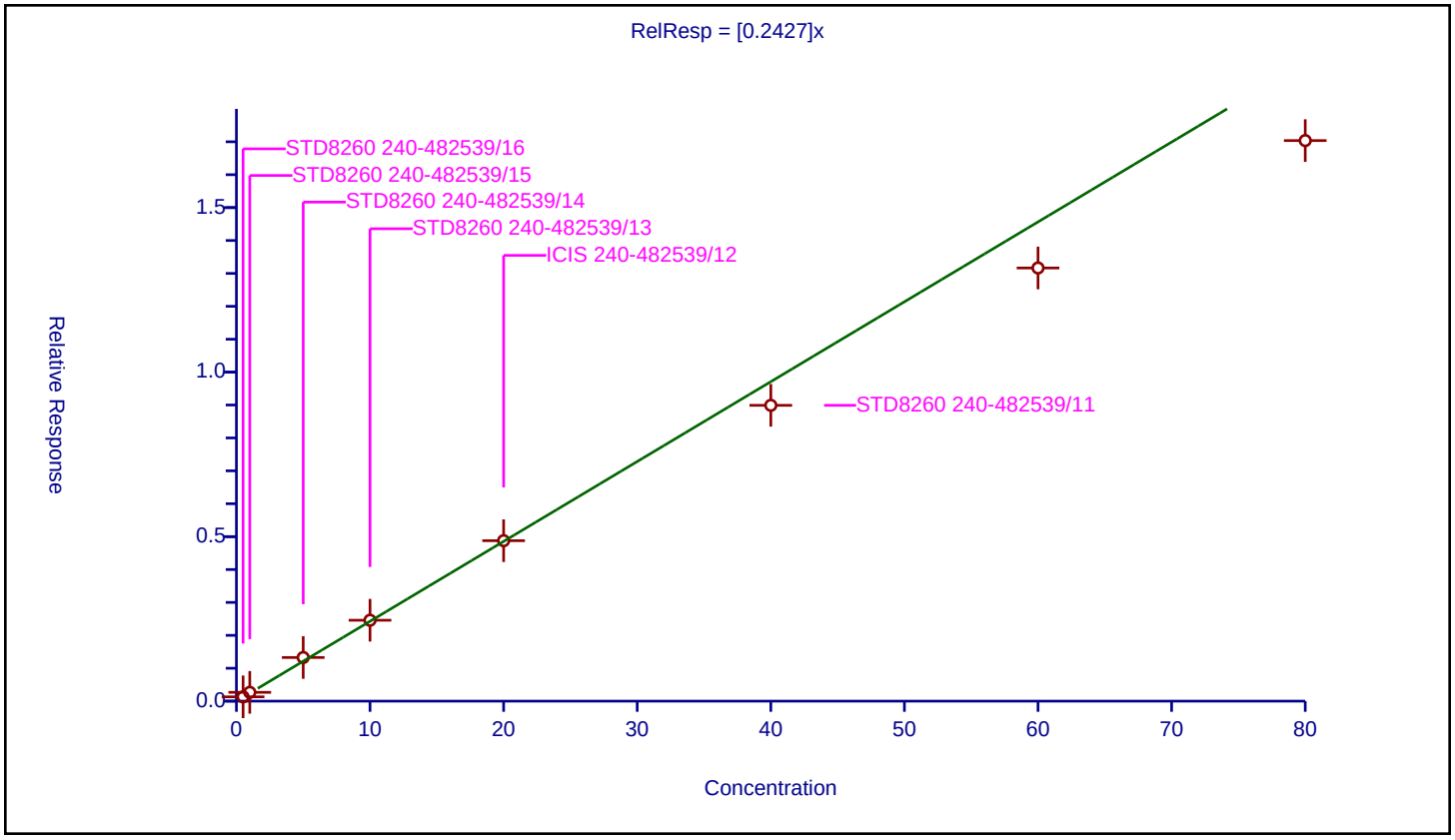
Curve Coefficients

Intercept:	0
Slope:	0.2427

Error Coefficients

Standard Error:	711000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.130955	20.0	1103126.0	0.26191	Y
2	STD8260 240-482539/15	1.0	0.267875	20.0	1133064.0	0.267875	Y
3	STD8260 240-482539/14	5.0	1.326177	20.0	1285831.0	0.265235	Y
4	STD8260 240-482539/13	10.0	2.459062	20.0	1407911.0	0.245906	Y
5	ICIS 240-482539/12	20.0	4.8767	20.0	1453811.0	0.243835	Y
6	STD8260 240-482539/11	40.0	8.990612	20.0	1575479.0	0.224765	Y
7	STD8260 240-482539/10	60.0	13.165361	20.0	1594706.0	0.219423	Y
8	STD8260 240-482539/9	80.0	17.036953	20.0	1562115.0	0.212962	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

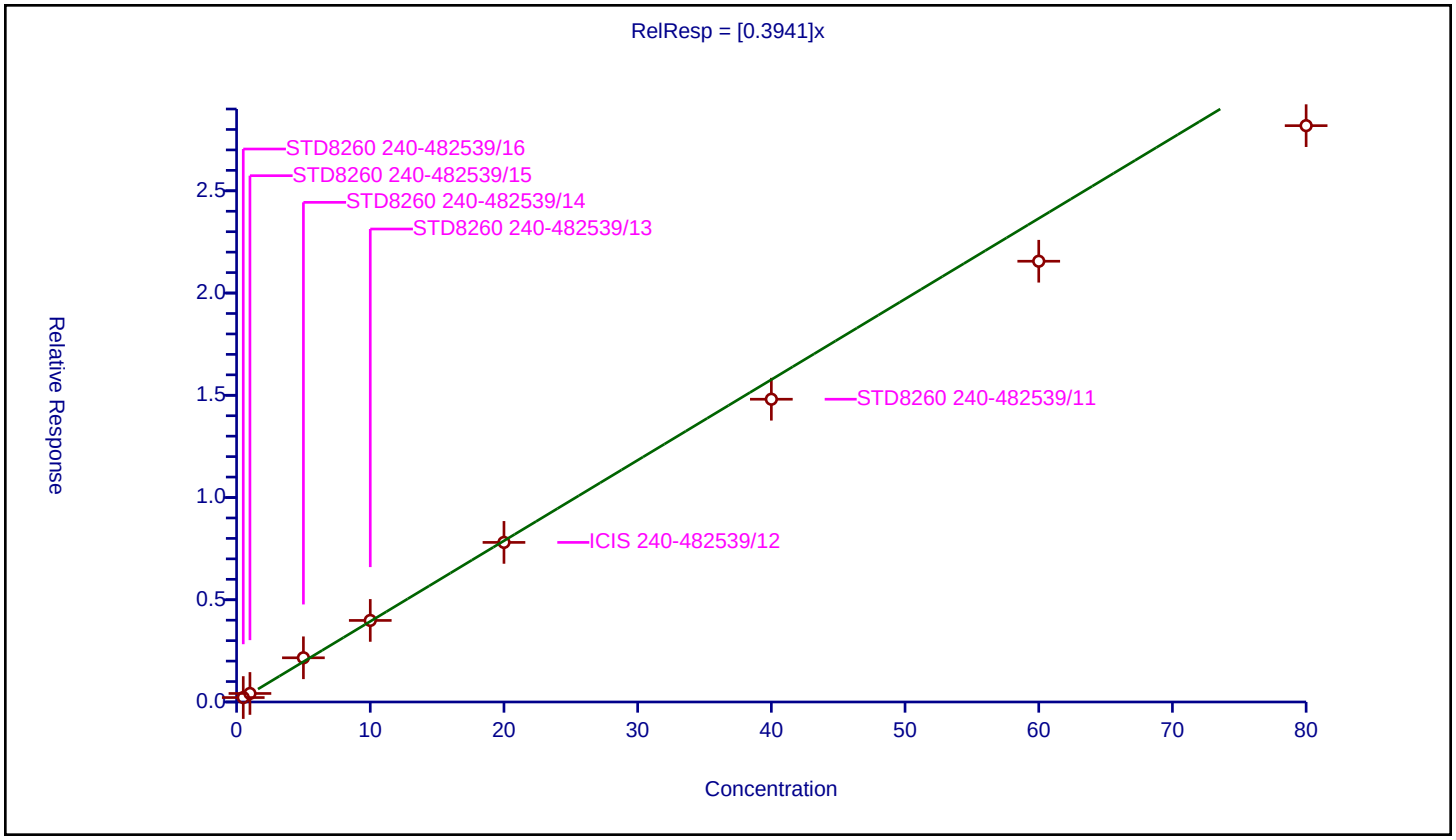
Curve Coefficients

Intercept:	0
Slope:	0.3941

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.216675	20.0	1103126.0	0.43335	Y
2	STD8260 240-482539/15	1.0	0.416464	20.0	1133064.0	0.416464	Y
3	STD8260 240-482539/14	5.0	2.162181	20.0	1285831.0	0.432436	Y
4	STD8260 240-482539/13	10.0	3.988519	20.0	1407911.0	0.398852	Y
5	ICIS 240-482539/12	20.0	7.80488	20.0	1453811.0	0.390244	Y
6	STD8260 240-482539/11	40.0	14.80671	20.0	1575479.0	0.370168	Y
7	STD8260 240-482539/10	60.0	21.556161	20.0	1594706.0	0.359269	Y
8	STD8260 240-482539/9	80.0	28.186247	20.0	1562115.0	0.352328	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

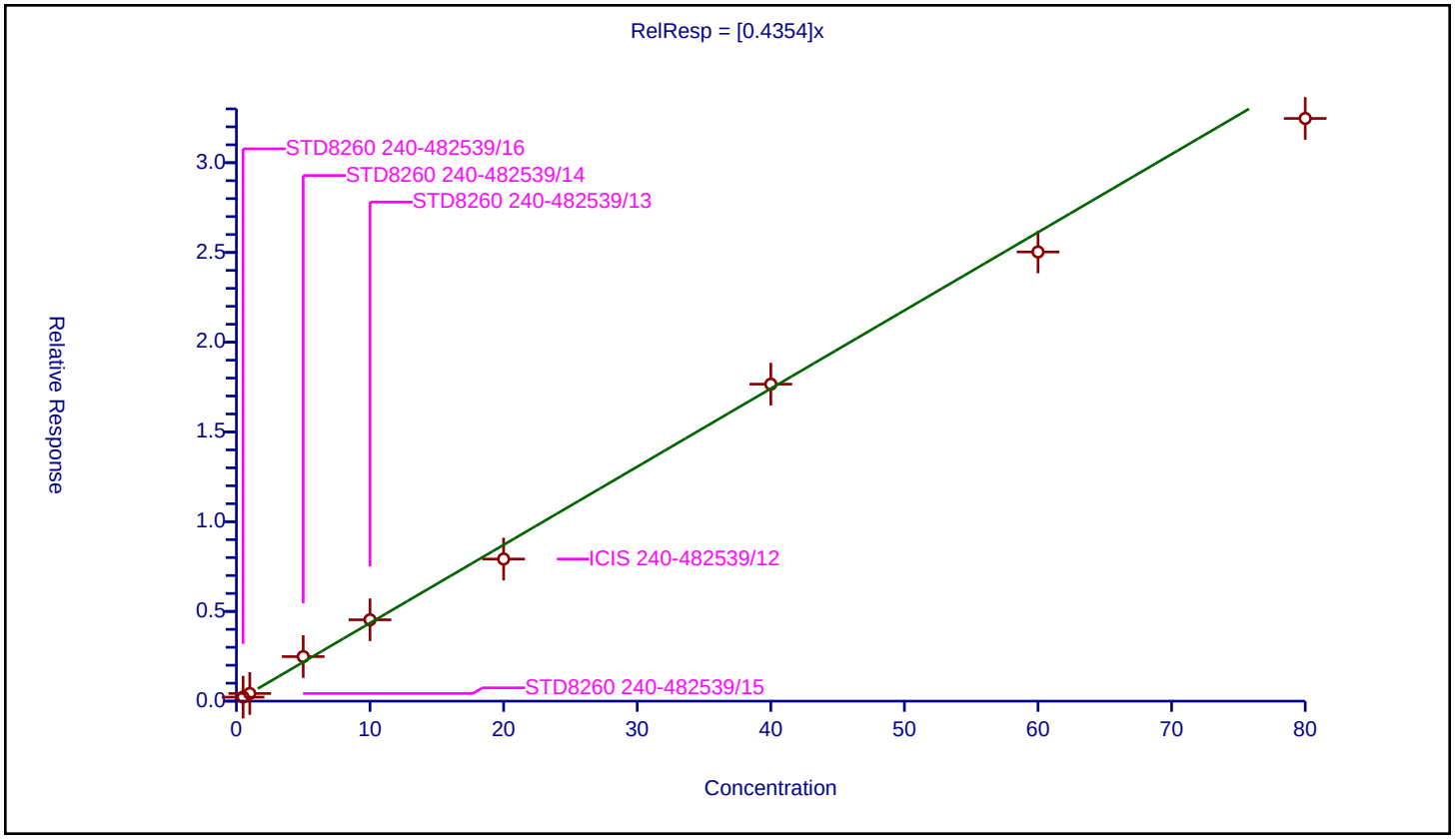
Curve Coefficients

Intercept:	0
Slope:	0.4354

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.223365	20.0	1103126.0	0.44673	Y
2	STD8260 240-482539/15	1.0	0.426172	20.0	1133064.0	0.426172	Y
3	STD8260 240-482539/14	5.0	2.481975	20.0	1285831.0	0.496395	Y
4	STD8260 240-482539/13	10.0	4.533227	20.0	1407911.0	0.453323	Y
5	ICIS 240-482539/12	20.0	7.918608	20.0	1453811.0	0.39593	Y
6	STD8260 240-482539/11	40.0	17.662768	20.0	1575479.0	0.441569	Y
7	STD8260 240-482539/10	60.0	25.029541	20.0	1594706.0	0.417159	Y
8	STD8260 240-482539/9	80.0	32.466739	20.0	1562115.0	0.405834	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

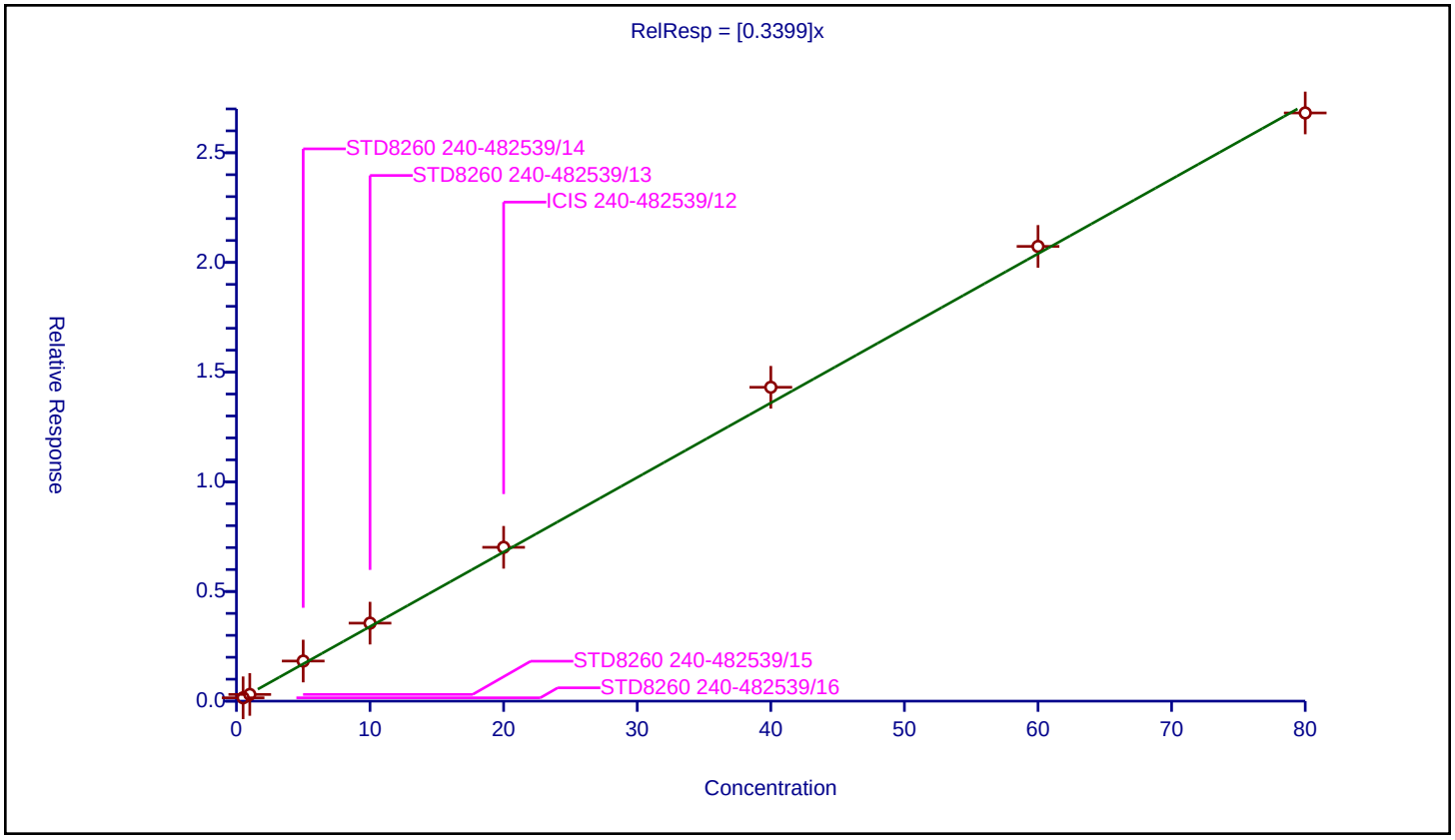
Curve Coefficients

Intercept:	0
Slope:	0.3399

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.151968	20.0	1103126.0	0.303936	Y
2	STD8260 240-482539/15	1.0	0.30549	20.0	1133064.0	0.30549	Y
3	STD8260 240-482539/14	5.0	1.827643	20.0	1285831.0	0.365529	Y
4	STD8260 240-482539/13	10.0	3.555793	20.0	1407911.0	0.355579	Y
5	ICIS 240-482539/12	20.0	7.012989	20.0	1453811.0	0.350649	Y
6	STD8260 240-482539/11	40.0	14.308588	20.0	1575479.0	0.357715	Y
7	STD8260 240-482539/10	60.0	20.730617	20.0	1594706.0	0.34551	Y
8	STD8260 240-482539/9	80.0	26.815042	20.0	1562115.0	0.335188	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

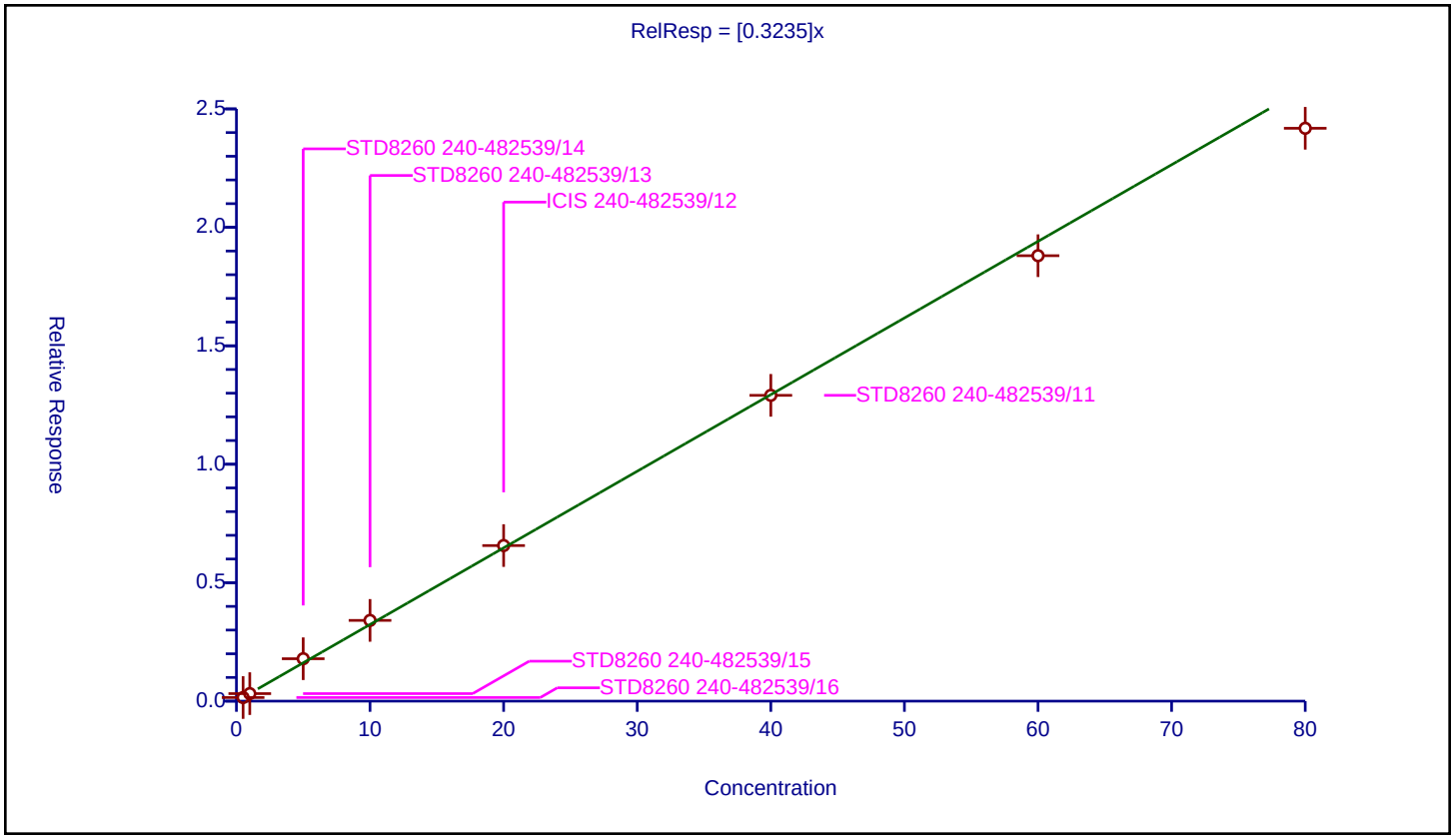
Curve Coefficients

Intercept:	0
Slope:	0.3235

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	5.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.152023	20.0	1103126.0	0.304045	Y
2	STD8260 240-482539/15	1.0	0.31797	20.0	1133064.0	0.31797	Y
3	STD8260 240-482539/14	5.0	1.790531	20.0	1285831.0	0.358106	Y
4	STD8260 240-482539/13	10.0	3.408426	20.0	1407911.0	0.340843	Y
5	ICIS 240-482539/12	20.0	6.567759	20.0	1453811.0	0.328388	Y
6	STD8260 240-482539/11	40.0	12.908811	20.0	1575479.0	0.32272	Y
7	STD8260 240-482539/10	60.0	18.803353	20.0	1594706.0	0.313389	Y
8	STD8260 240-482539/9	80.0	24.181651	20.0	1562115.0	0.302271	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

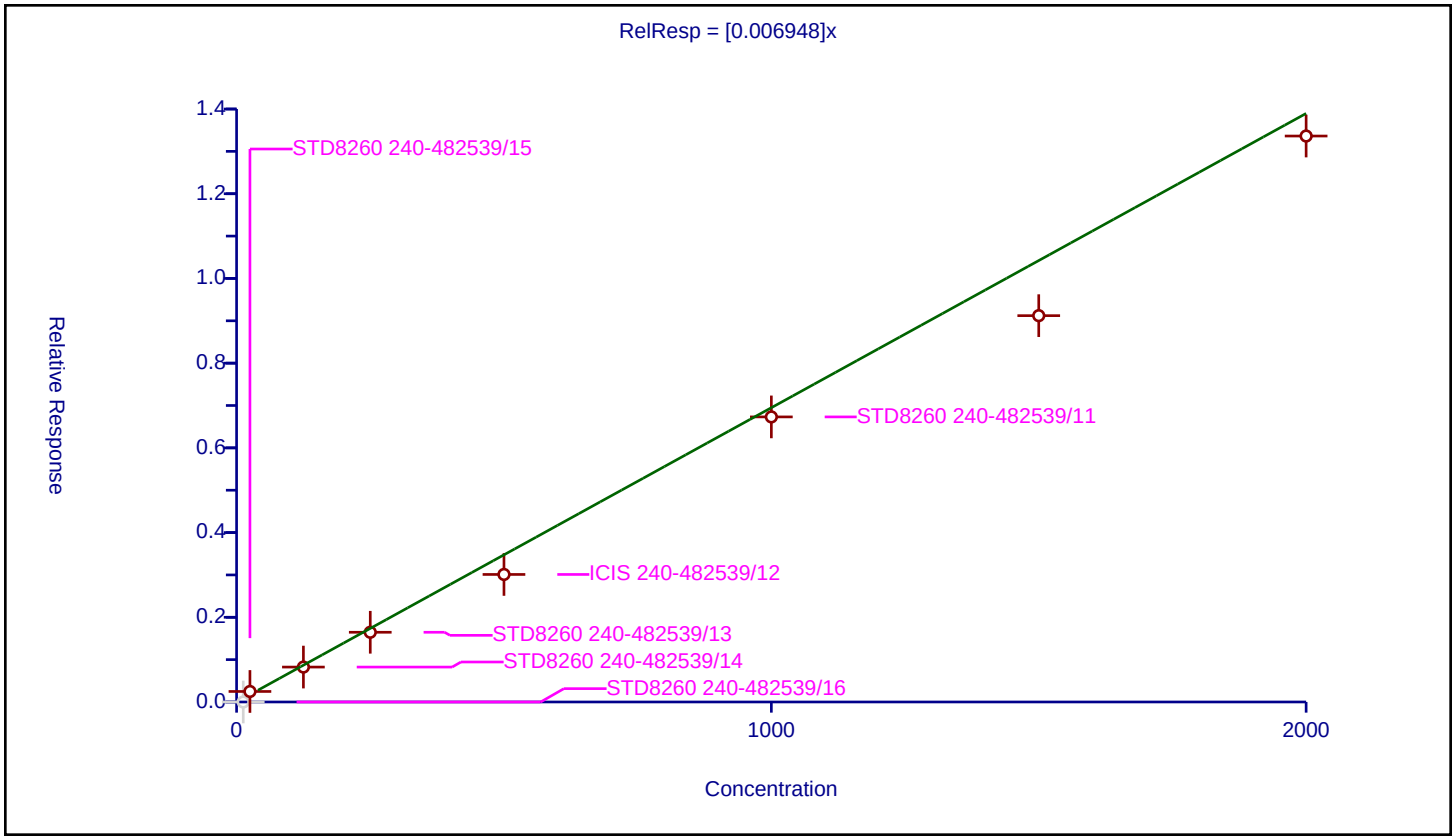
Curve Coefficients

Intercept:	0
Slope:	0.006948

Error Coefficients

Standard Error:	572000
Relative Standard Error:	19.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.945

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	12.5	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	25.0	0.248441	20.0	1133064.0	0.009938	Y
3	STD8260 240-482539/14	125.0	0.824727	20.0	1285831.0	0.006598	Y
4	STD8260 240-482539/13	250.0	1.646184	20.0	1407911.0	0.006585	Y
5	ICIS 240-482539/12	500.0	3.011093	20.0	1453811.0	0.006022	Y
6	STD8260 240-482539/11	1000.0	6.730626	20.0	1575479.0	0.006731	Y
7	STD8260 240-482539/10	1500.0	9.121017	20.0	1594706.0	0.006081	Y
8	STD8260 240-482539/9	2000.0	13.362473	20.0	1562115.0	0.006681	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

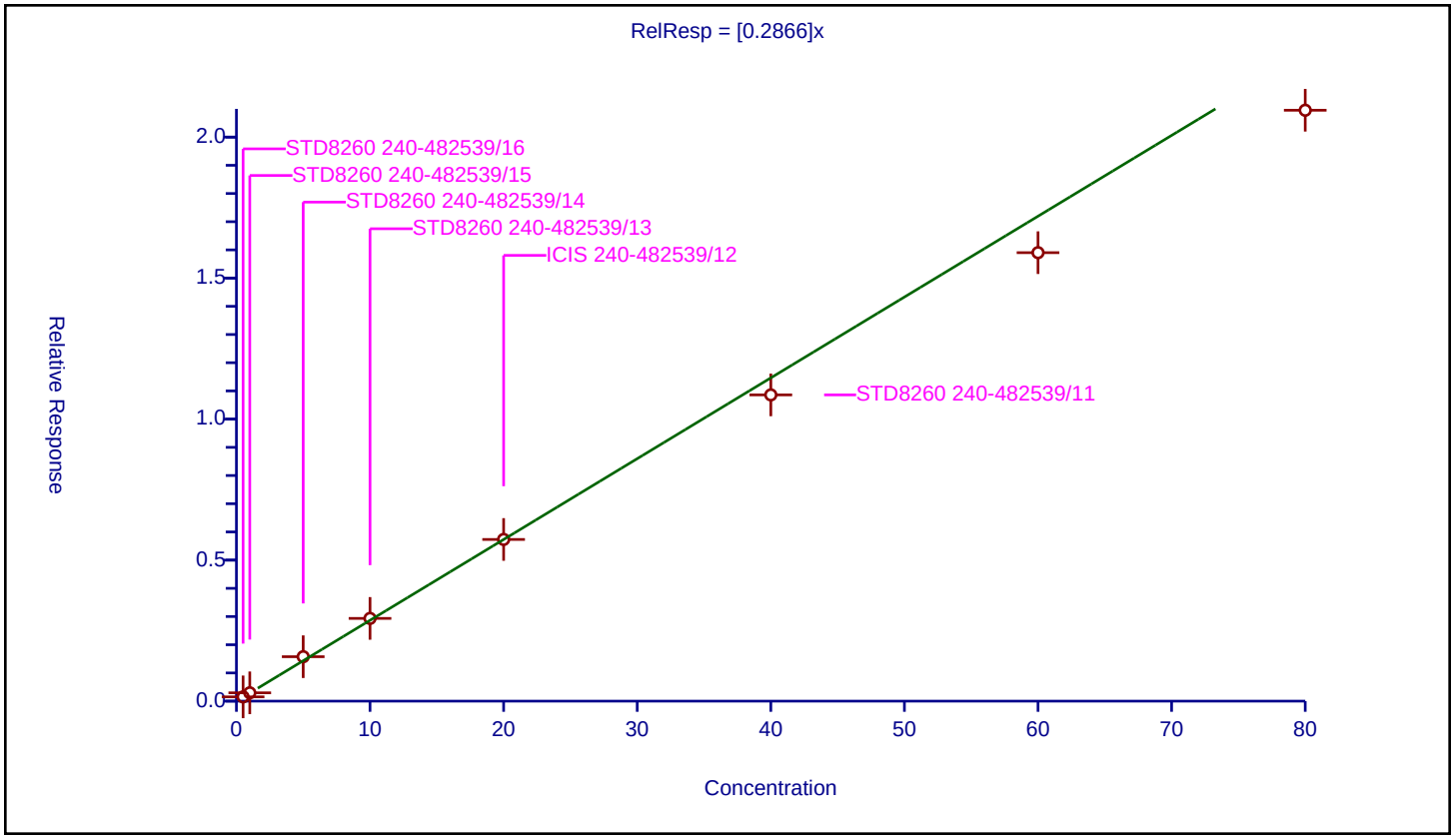
Curve Coefficients

Intercept:	0
Slope:	0.2866

Error Coefficients

Standard Error:	866000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.151769	20.0	1103126.0	0.303537	Y
2	STD8260 240-482539/15	1.0	0.295358	20.0	1133064.0	0.295358	Y
3	STD8260 240-482539/14	5.0	1.576039	20.0	1285831.0	0.315208	Y
4	STD8260 240-482539/13	10.0	2.933864	20.0	1407911.0	0.293386	Y
5	ICIS 240-482539/12	20.0	5.733042	20.0	1453811.0	0.286652	Y
6	STD8260 240-482539/11	40.0	10.859161	20.0	1575479.0	0.271479	Y
7	STD8260 240-482539/10	60.0	15.902568	20.0	1594706.0	0.265043	Y
8	STD8260 240-482539/9	80.0	20.95203	20.0	1562115.0	0.2619	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

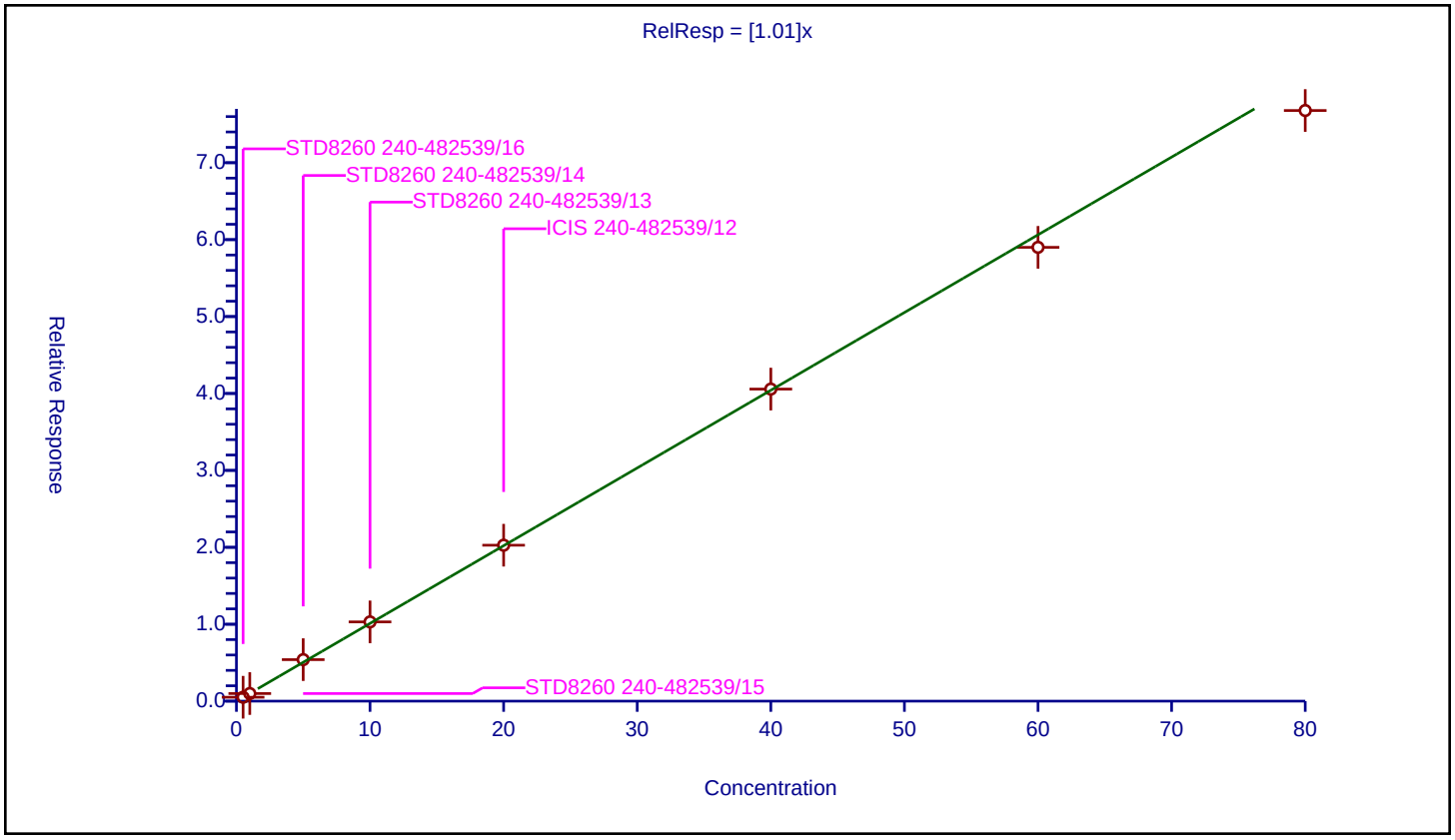
Curve Coefficients

Intercept:	0
Slope:	1.01

Error Coefficients

Standard Error:	3190000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.506923	20.0	1103126.0	1.013846	Y
2	STD8260 240-482539/15	1.0	0.989123	20.0	1133064.0	0.989123	Y
3	STD8260 240-482539/14	5.0	5.397412	20.0	1285831.0	1.079482	Y
4	STD8260 240-482539/13	10.0	10.303279	20.0	1407911.0	1.030328	Y
5	ICIS 240-482539/12	20.0	20.272759	20.0	1453811.0	1.013638	Y
6	STD8260 240-482539/11	40.0	40.572956	20.0	1575479.0	1.014324	Y
7	STD8260 240-482539/10	60.0	59.000443	20.0	1594706.0	0.983341	Y
8	STD8260 240-482539/9	80.0	76.789724	20.0	1562115.0	0.959872	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

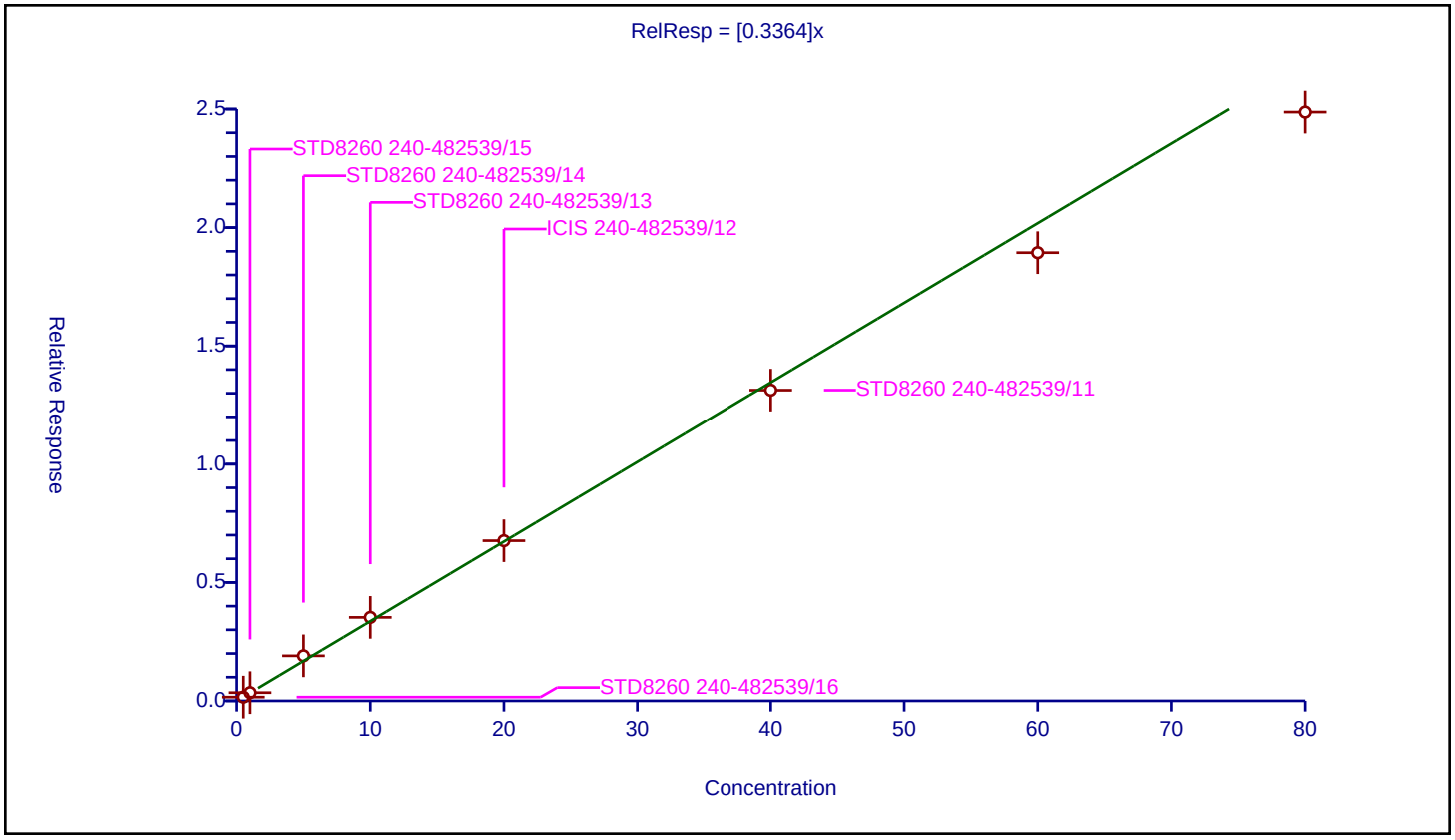
Curve Coefficients

Intercept:	0
Slope:	0.3364

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.159383	20.0	1103126.0	0.318767	Y
2	STD8260 240-482539/15	1.0	0.346441	20.0	1133064.0	0.346441	Y
3	STD8260 240-482539/14	5.0	1.902225	20.0	1285831.0	0.380445	Y
4	STD8260 240-482539/13	10.0	3.525621	20.0	1407911.0	0.352562	Y
5	ICIS 240-482539/12	20.0	6.76418	20.0	1453811.0	0.338209	Y
6	STD8260 240-482539/11	40.0	13.13141	20.0	1575479.0	0.328285	Y
7	STD8260 240-482539/10	60.0	18.941397	20.0	1594706.0	0.31569	Y
8	STD8260 240-482539/9	80.0	24.871485	20.0	1562115.0	0.310894	Y



Calibration / n-Heptane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

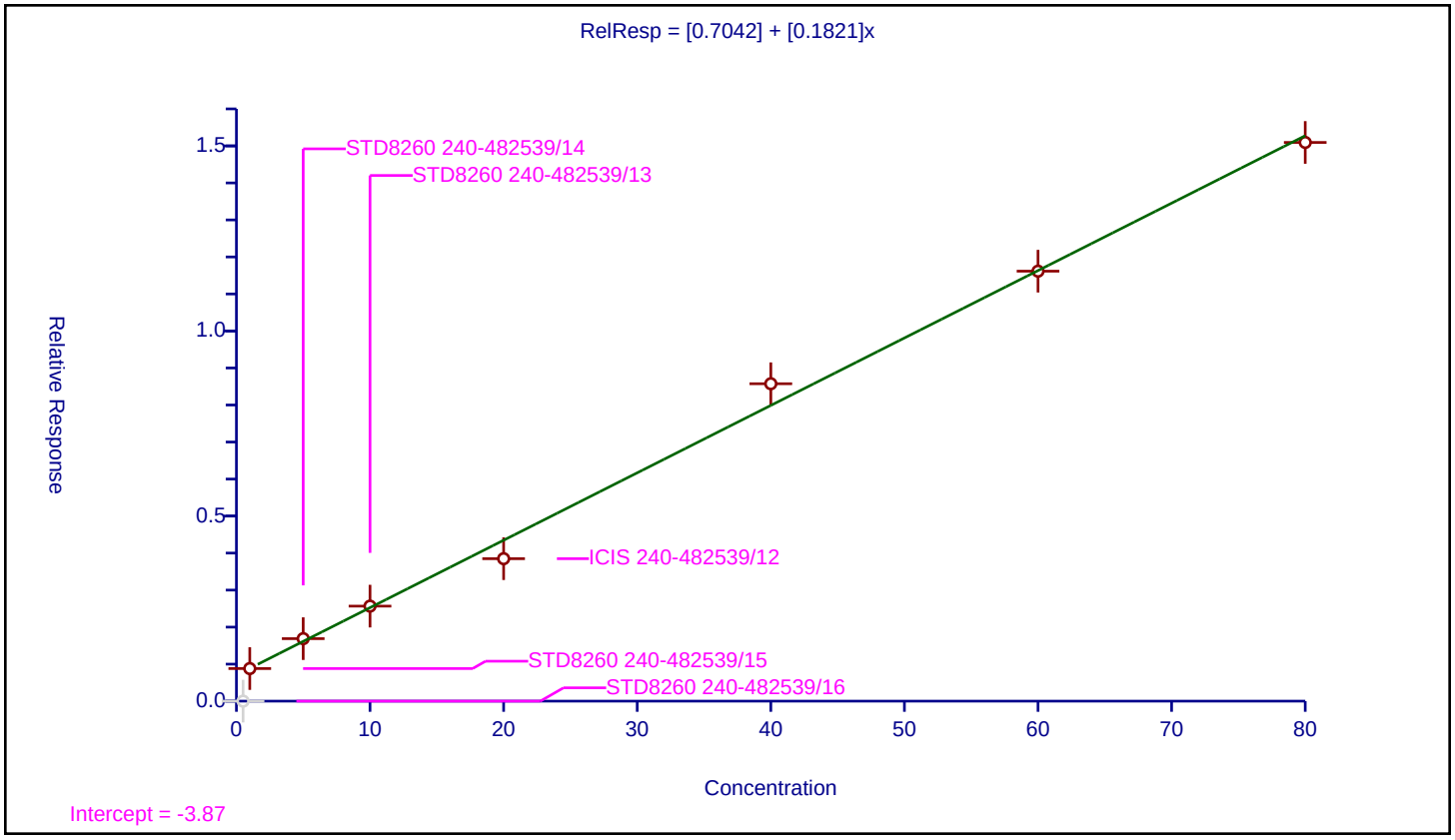
Curve Coefficients

Intercept:	0.7042
Slope:	0.1821

Error Coefficients

Standard Error:	752000
Relative Standard Error:	8.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	1.0	0.880162	20.0	1133064.0	0.880162	Y
3	STD8260 240-482539/14	5.0	1.688604	20.0	1285831.0	0.337721	Y
4	STD8260 240-482539/13	10.0	2.56725	20.0	1407911.0	0.256725	Y
5	ICIS 240-482539/12	20.0	3.848685	20.0	1453811.0	0.192434	Y
6	STD8260 240-482539/11	40.0	8.574929	20.0	1575479.0	0.214373	Y
7	STD8260 240-482539/10	60.0	11.615821	20.0	1594706.0	0.193597	Y
8	STD8260 240-482539/9	80.0	15.09337	20.0	1562115.0	0.188667	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

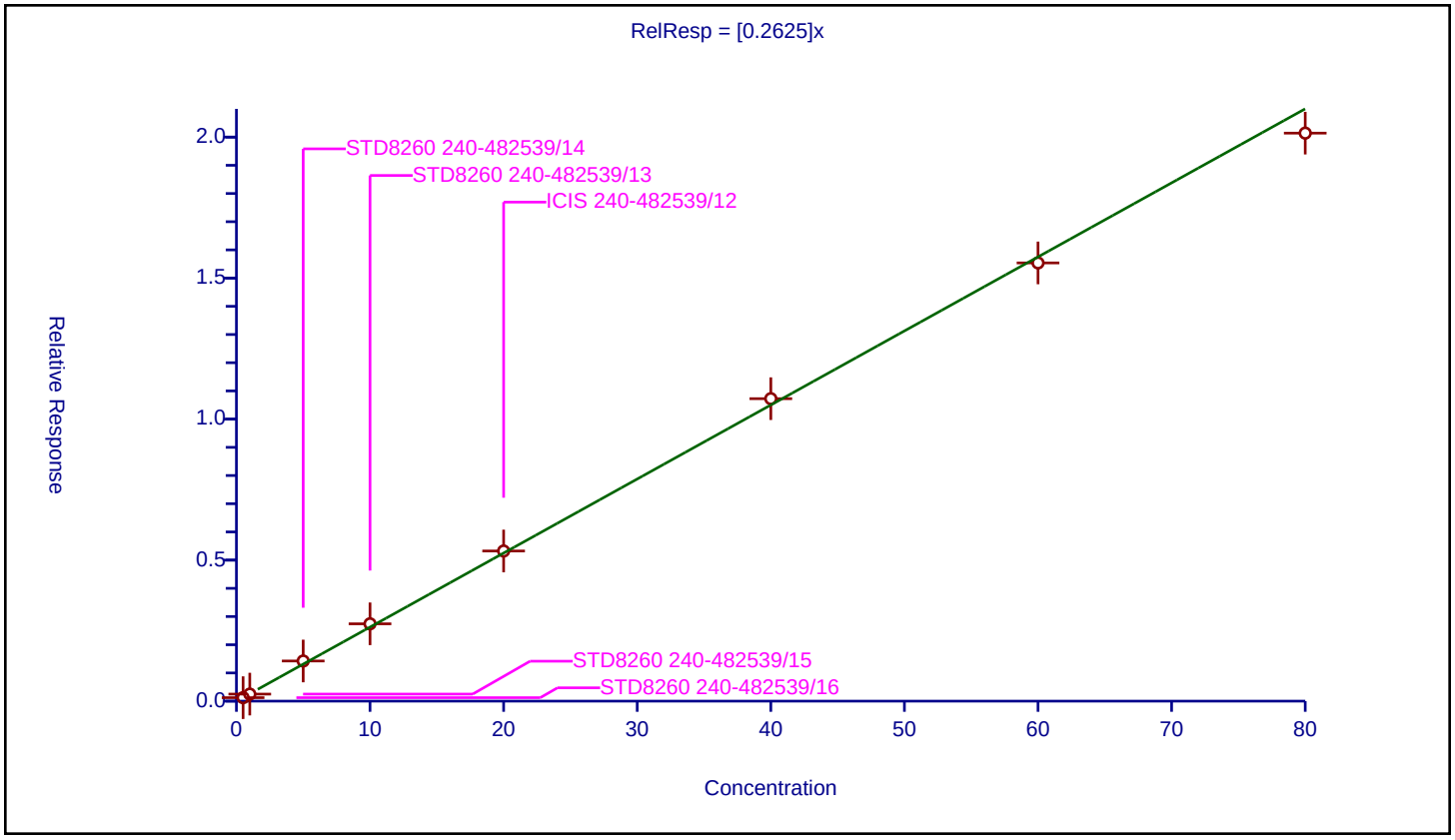
Curve Coefficients

Intercept:	0
Slope:	0.2625

Error Coefficients

Standard Error:	838000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.123359	20.0	1103126.0	0.246717	Y
2	STD8260 240-482539/15	1.0	0.249536	20.0	1133064.0	0.249536	Y
3	STD8260 240-482539/14	5.0	1.423329	20.0	1285831.0	0.284666	Y
4	STD8260 240-482539/13	10.0	2.742503	20.0	1407911.0	0.27425	Y
5	ICIS 240-482539/12	20.0	5.323938	20.0	1453811.0	0.266197	Y
6	STD8260 240-482539/11	40.0	10.725424	20.0	1575479.0	0.268136	Y
7	STD8260 240-482539/10	60.0	15.538513	20.0	1594706.0	0.258975	Y
8	STD8260 240-482539/9	80.0	20.140796	20.0	1562115.0	0.25176	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

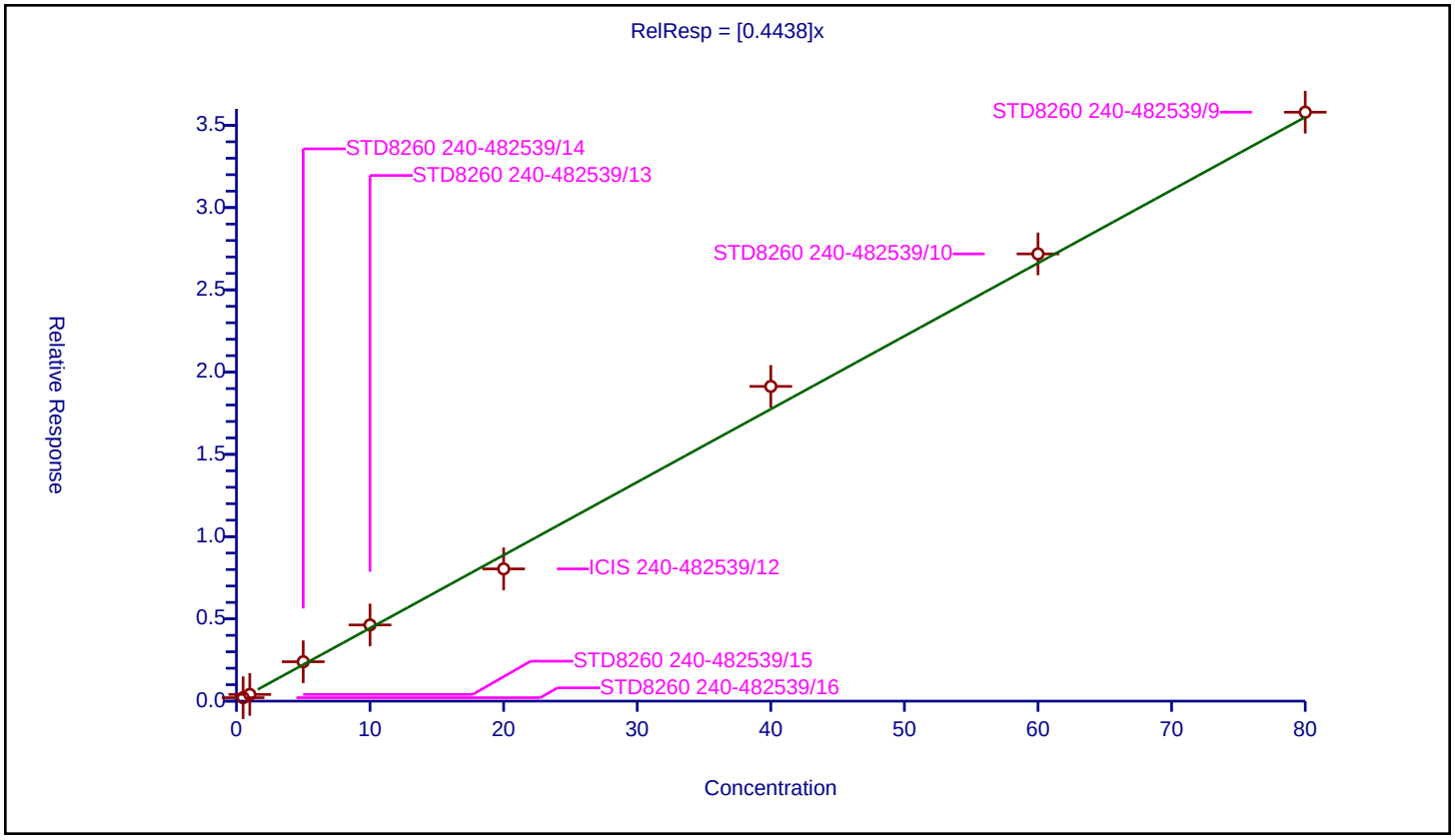
Curve Coefficients

Intercept:	0
Slope:	0.4438

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	6.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.209677	20.0	1103126.0	0.419354	Y
2	STD8260 240-482539/15	1.0	0.407726	20.0	1133064.0	0.407726	Y
3	STD8260 240-482539/14	5.0	2.394592	20.0	1285831.0	0.478918	Y
4	STD8260 240-482539/13	10.0	4.631827	20.0	1407911.0	0.463183	Y
5	ICIS 240-482539/12	20.0	8.038885	20.0	1453811.0	0.401944	Y
6	STD8260 240-482539/11	40.0	19.131985	20.0	1575479.0	0.4783	Y
7	STD8260 240-482539/10	60.0	27.185701	20.0	1594706.0	0.453095	Y
8	STD8260 240-482539/9	80.0	35.798939	20.0	1562115.0	0.447487	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

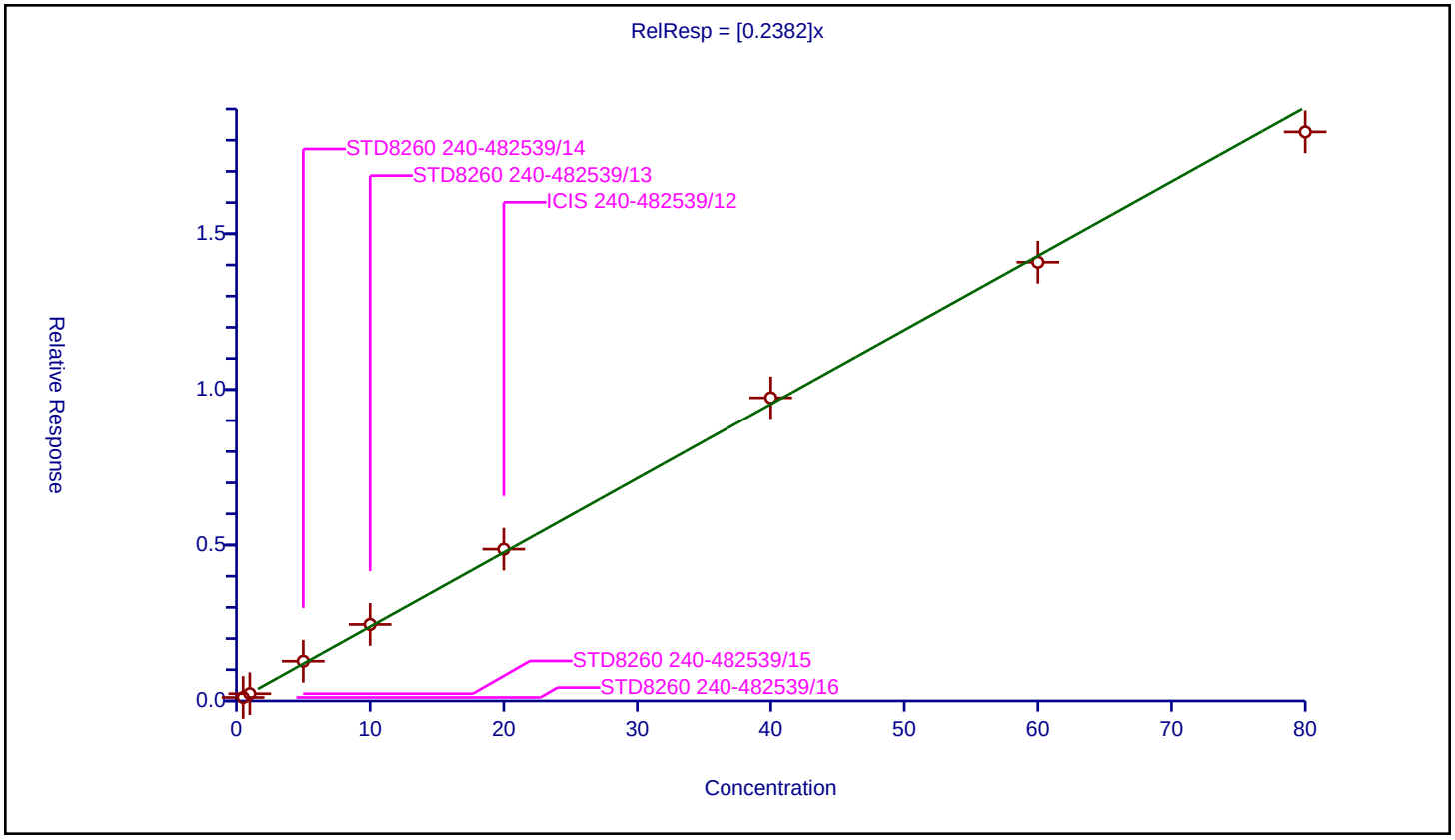
Curve Coefficients

Intercept:	0
Slope:	0.2382

Error Coefficients

Standard Error:	760000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.111846	20.0	1103126.0	0.223692	Y
2	STD8260 240-482539/15	1.0	0.231814	20.0	1133064.0	0.231814	Y
3	STD8260 240-482539/14	5.0	1.273775	20.0	1285831.0	0.254755	Y
4	STD8260 240-482539/13	10.0	2.453777	20.0	1407911.0	0.245378	Y
5	ICIS 240-482539/12	20.0	4.867056	20.0	1453811.0	0.243353	Y
6	STD8260 240-482539/11	40.0	9.735528	20.0	1575479.0	0.243388	Y
7	STD8260 240-482539/10	60.0	14.088265	20.0	1594706.0	0.234804	Y
8	STD8260 240-482539/9	80.0	18.26708	20.0	1562115.0	0.228339	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

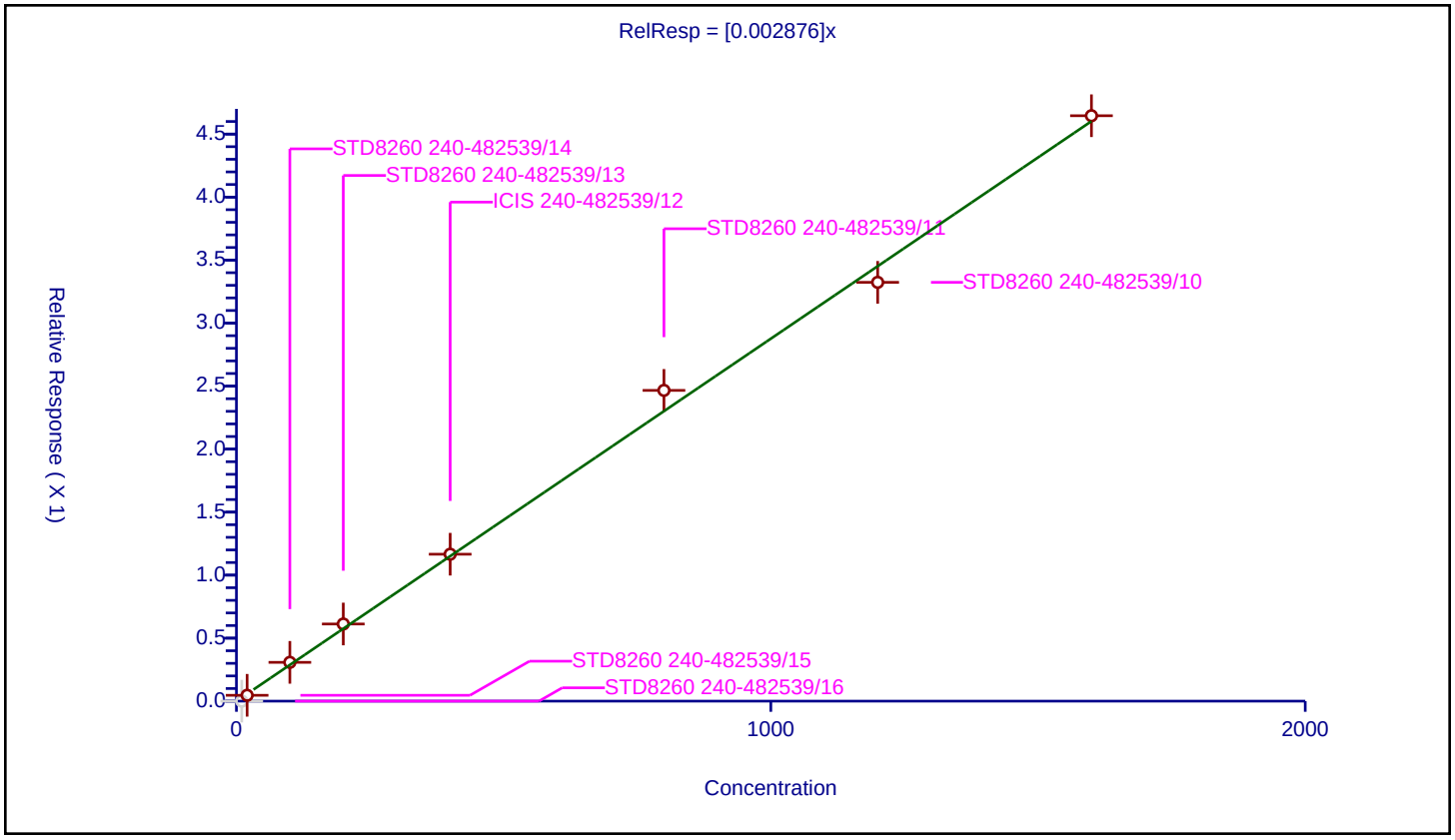
Curve Coefficients

Intercept:	0
Slope:	0.002876

Error Coefficients

Standard Error:	204000
Relative Standard Error:	9.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	10.0	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	20.0	0.046476	20.0	1133064.0	0.002324	Y
3	STD8260 240-482539/14	100.0	0.307817	20.0	1285831.0	0.003078	Y
4	STD8260 240-482539/13	200.0	0.612255	20.0	1407911.0	0.003061	Y
5	ICIS 240-482539/12	400.0	1.166039	20.0	1453811.0	0.002915	Y
6	STD8260 240-482539/11	800.0	2.466171	20.0	1575479.0	0.003083	Y
7	STD8260 240-482539/10	1200.0	3.323572	20.0	1594706.0	0.00277	Y
8	STD8260 240-482539/9	1600.0	4.645612	20.0	1562115.0	0.002904	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

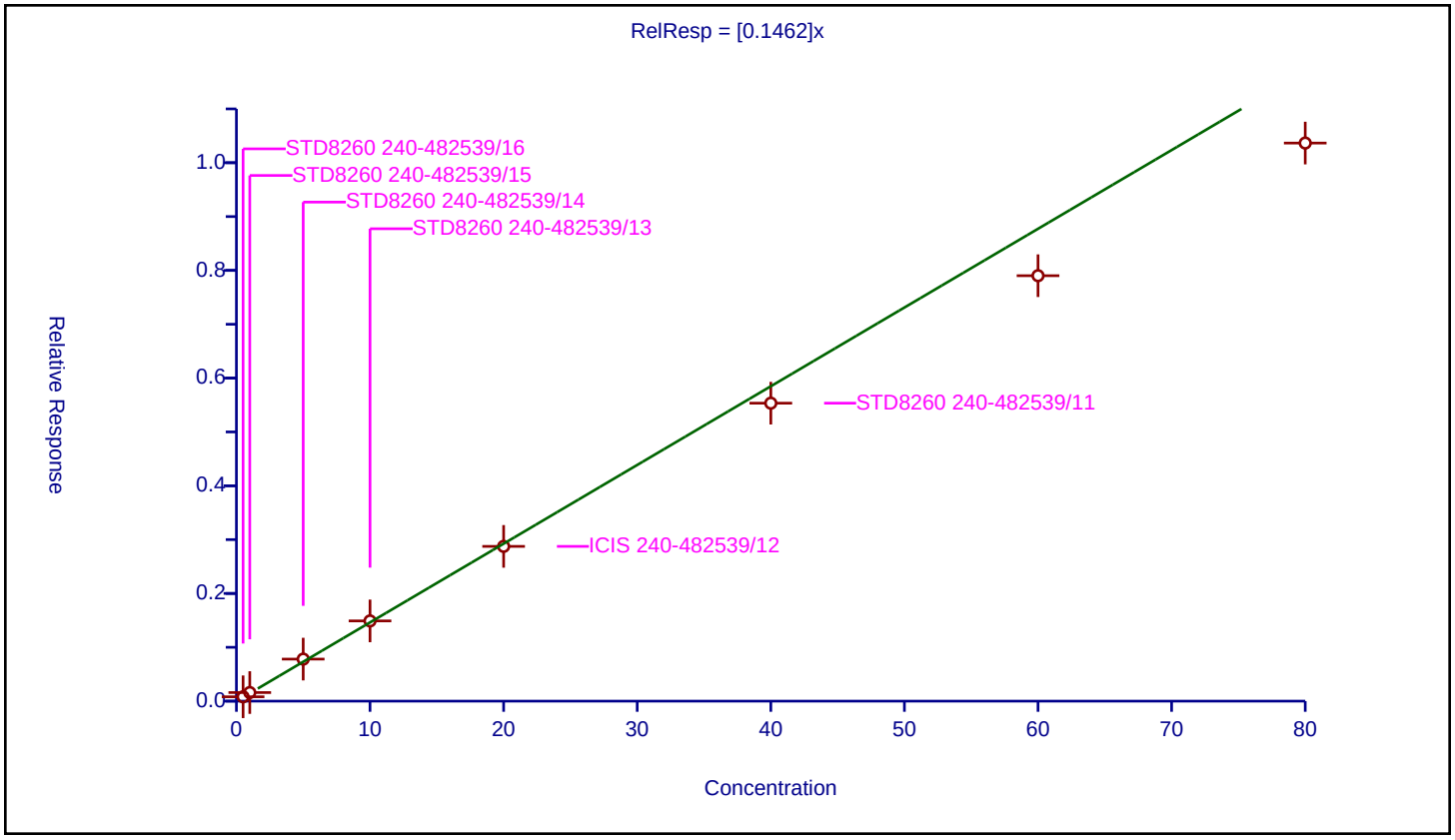
Curve Coefficients

Intercept:	0
Slope:	0.1462

Error Coefficients

Standard Error:	431000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.08068	20.0	1103126.0	0.16136	Y
2	STD8260 240-482539/15	1.0	0.159761	20.0	1133064.0	0.159761	Y
3	STD8260 240-482539/14	5.0	0.781051	20.0	1285831.0	0.15621	Y
4	STD8260 240-482539/13	10.0	1.490208	20.0	1407911.0	0.149021	Y
5	ICIS 240-482539/12	20.0	2.874253	20.0	1453811.0	0.143713	Y
6	STD8260 240-482539/11	40.0	5.534114	20.0	1575479.0	0.138353	Y
7	STD8260 240-482539/10	60.0	7.901958	20.0	1594706.0	0.131699	Y
8	STD8260 240-482539/9	80.0	10.365396	20.0	1562115.0	0.129567	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

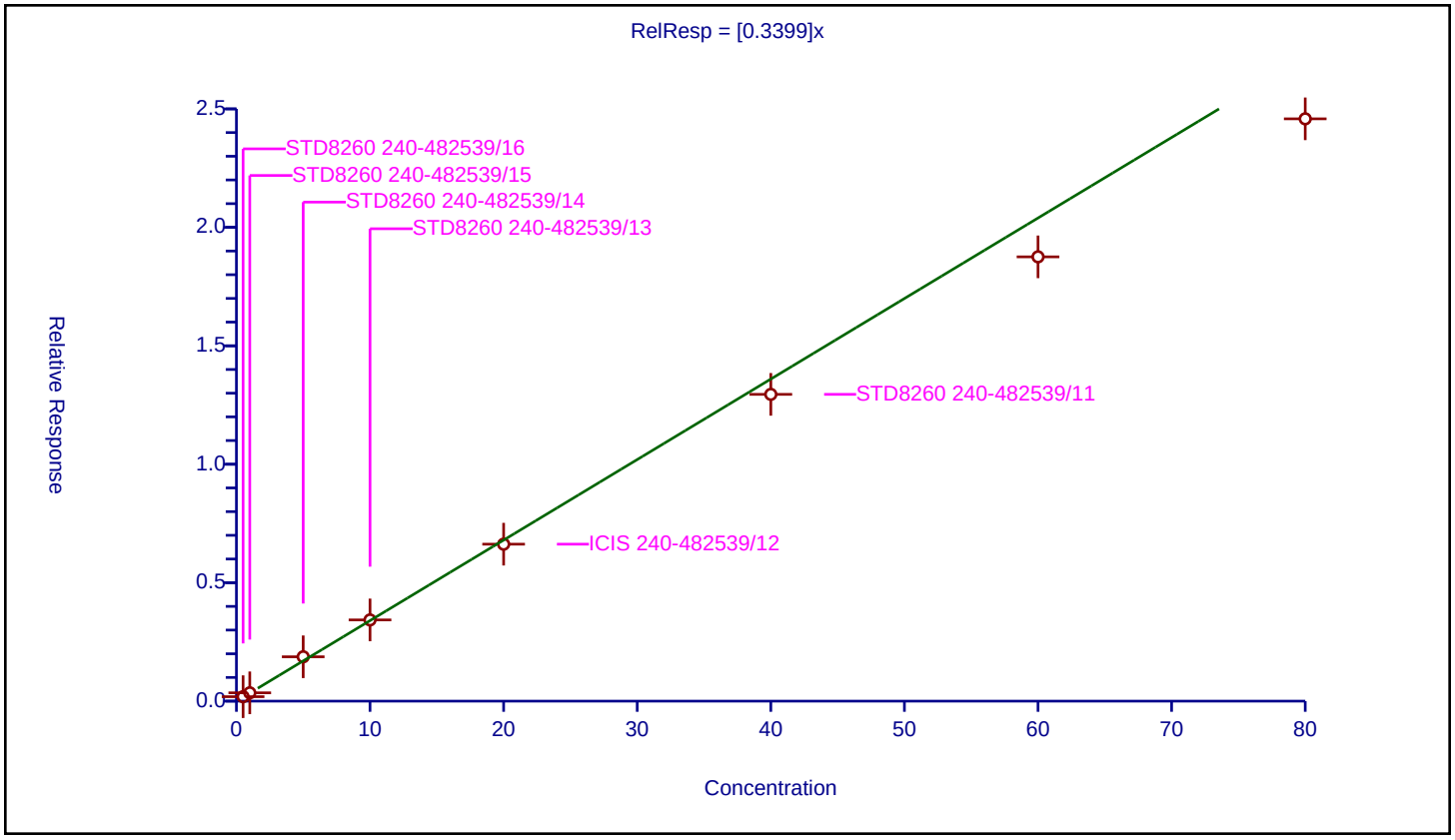
Curve Coefficients

Intercept:	0
Slope:	0.3399

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.187884	20.0	1103126.0	0.375768	Y
2	STD8260 240-482539/15	1.0	0.351189	20.0	1133064.0	0.351189	Y
3	STD8260 240-482539/14	5.0	1.872486	20.0	1285831.0	0.374497	Y
4	STD8260 240-482539/13	10.0	3.42881	20.0	1407911.0	0.342881	Y
5	ICIS 240-482539/12	20.0	6.625786	20.0	1453811.0	0.331289	Y
6	STD8260 240-482539/11	40.0	12.949509	20.0	1575479.0	0.323738	Y
7	STD8260 240-482539/10	60.0	18.75493	20.0	1594706.0	0.312582	Y
8	STD8260 240-482539/9	80.0	24.580457	20.0	1562115.0	0.307256	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

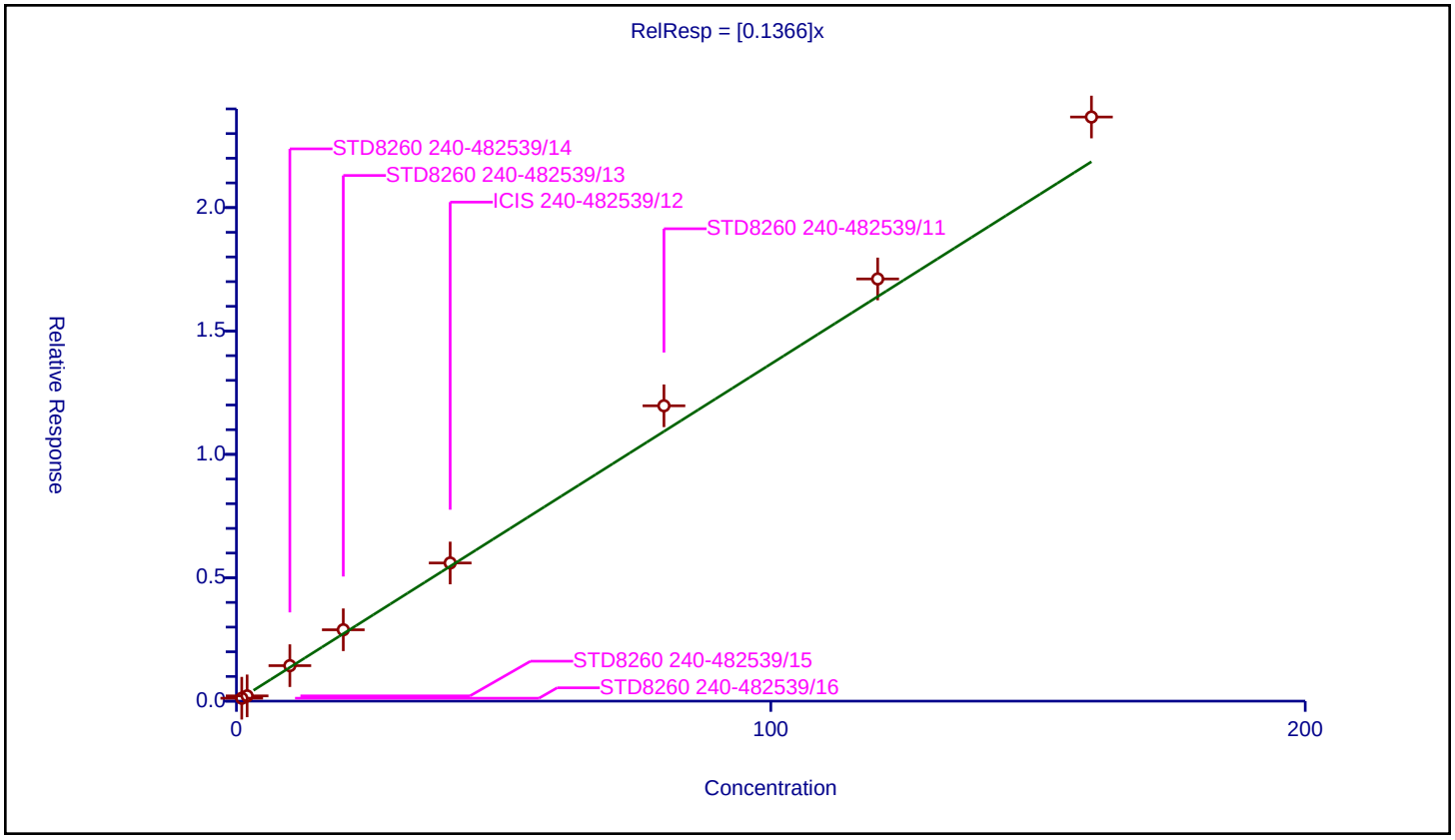
Curve Coefficients

Intercept:	0
Slope:	0.1366

Error Coefficients

Standard Error:	955000
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 240-482539/16	1.0	0.117974	20.0	1103126.0	0.117974	Y
2	STD8260 240-482539/15	2.0	0.212945	20.0	1133064.0	0.106472	Y
3	STD8260 240-482539/14	10.0	1.438214	20.0	1285831.0	0.143821	Y
4	STD8260 240-482539/13	20.0	2.891717	20.0	1407911.0	0.144586	Y
5	ICIS 240-482539/12	40.0	5.599091	20.0	1453811.0	0.139977	Y
6	STD8260 240-482539/11	80.0	11.969185	20.0	1575479.0	0.149615	Y
7	STD8260 240-482539/10	120.0	17.10906	20.0	1594706.0	0.142575	Y
8	STD8260 240-482539/9	160.0	23.670677	20.0	1562115.0	0.147942	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

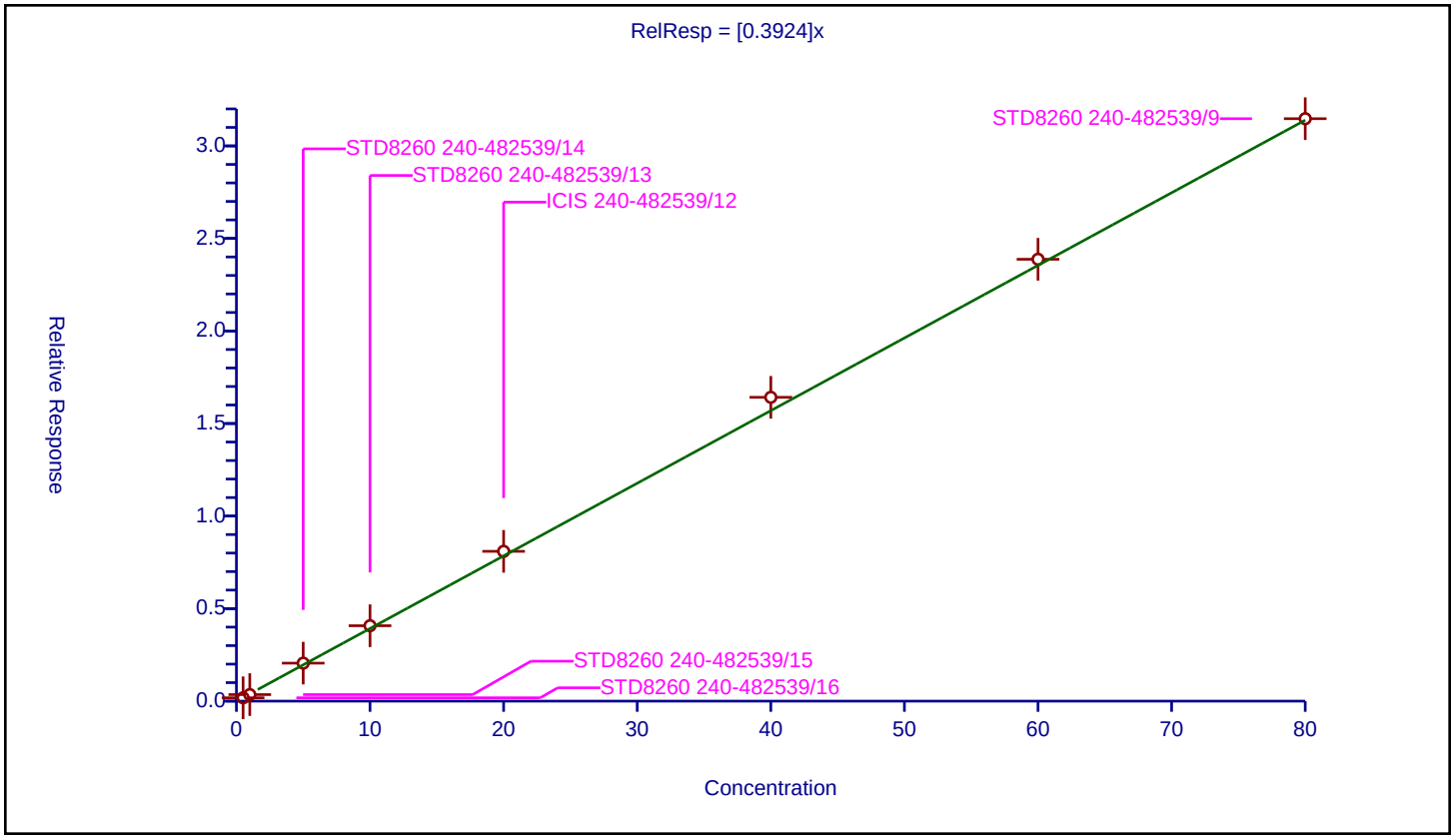
Curve Coefficients

Intercept:	0
Slope:	0.3924

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.180922	20.0	1103126.0	0.361844	Y
2	STD8260 240-482539/15	1.0	0.352902	20.0	1133064.0	0.352902	Y
3	STD8260 240-482539/14	5.0	2.053271	20.0	1285831.0	0.410654	Y
4	STD8260 240-482539/13	10.0	4.074547	20.0	1407911.0	0.407455	Y
5	ICIS 240-482539/12	20.0	8.094601	20.0	1453811.0	0.40473	Y
6	STD8260 240-482539/11	40.0	16.416404	20.0	1575479.0	0.41041	Y
7	STD8260 240-482539/10	60.0	23.874457	20.0	1594706.0	0.397908	Y
8	STD8260 240-482539/9	80.0	31.470666	20.0	1562115.0	0.393383	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

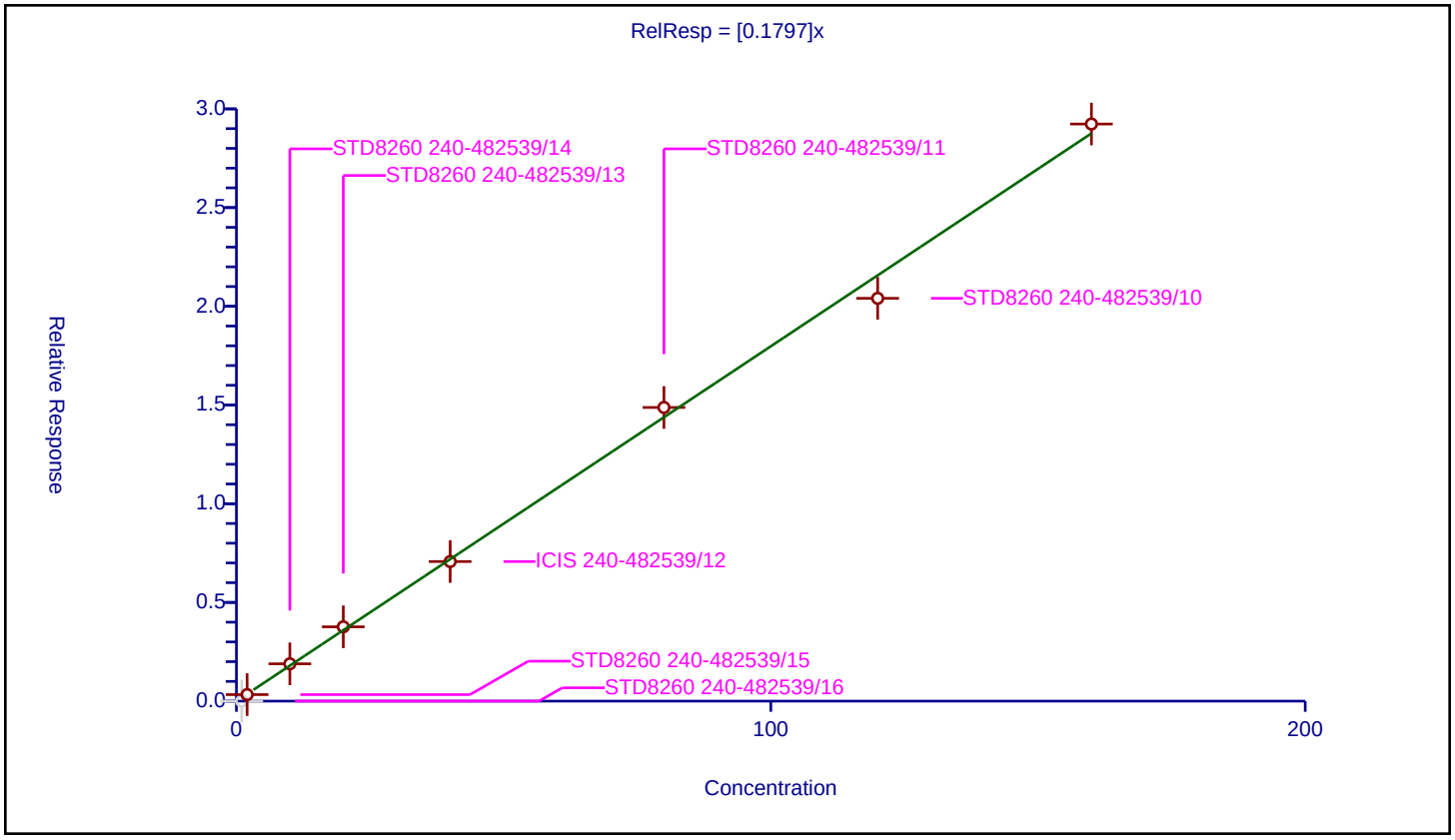
Curve Coefficients

Intercept:	0
Slope:	0.1797

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	5.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	1.0	0.0	20.0	1103126.0	0.0	N
2	STD8260 240-482539/15	2.0	0.331014	20.0	1133064.0	0.165507	Y
3	STD8260 240-482539/14	10.0	1.890233	20.0	1285831.0	0.189023	Y
4	STD8260 240-482539/13	20.0	3.764187	20.0	1407911.0	0.188209	Y
5	ICIS 240-482539/12	40.0	7.071043	20.0	1453811.0	0.176776	Y
6	STD8260 240-482539/11	80.0	14.876657	20.0	1575479.0	0.185958	Y
7	STD8260 240-482539/10	120.0	20.404952	20.0	1594706.0	0.170041	Y
8	STD8260 240-482539/9	160.0	29.233251	20.0	1562115.0	0.182708	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

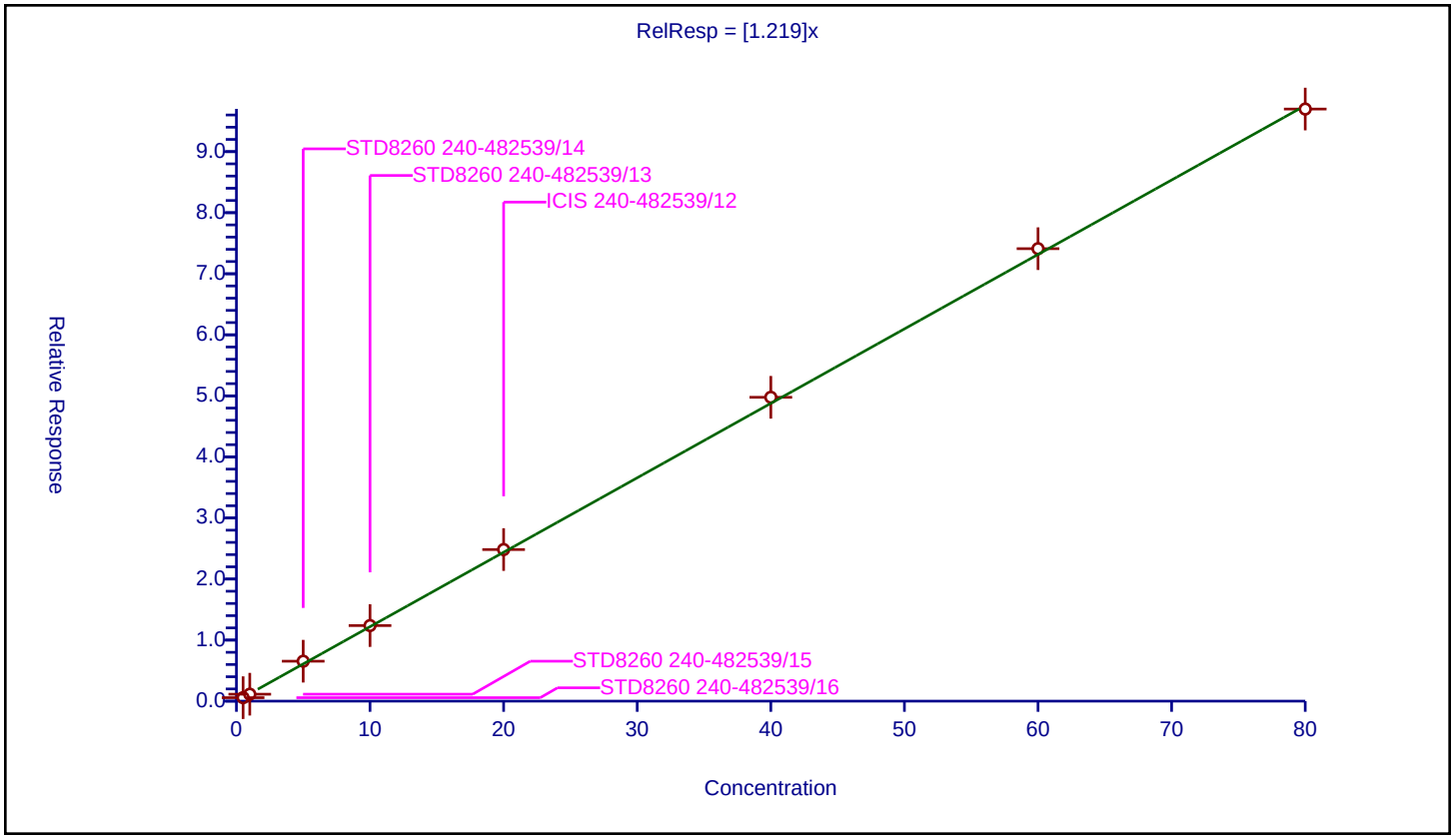
Curve Coefficients

Intercept:	0
Slope:	1.219

Error Coefficients

Standard Error:	2990000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.568988	20.0	954643.0	1.137975	Y
2	STD8260 240-482539/15	1.0	1.137495	20.0	962589.0	1.137495	Y
3	STD8260 240-482539/14	5.0	6.540909	20.0	1036972.0	1.308182	Y
4	STD8260 240-482539/13	10.0	12.378528	20.0	1113512.0	1.237853	Y
5	ICIS 240-482539/12	20.0	24.826592	20.0	1138182.0	1.24133	Y
6	STD8260 240-482539/11	40.0	49.767333	20.0	1172490.0	1.244183	Y
7	STD8260 240-482539/10	60.0	74.105703	20.0	1177165.0	1.235095	Y
8	STD8260 240-482539/9	80.0	96.971943	20.0	1175011.0	1.212149	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

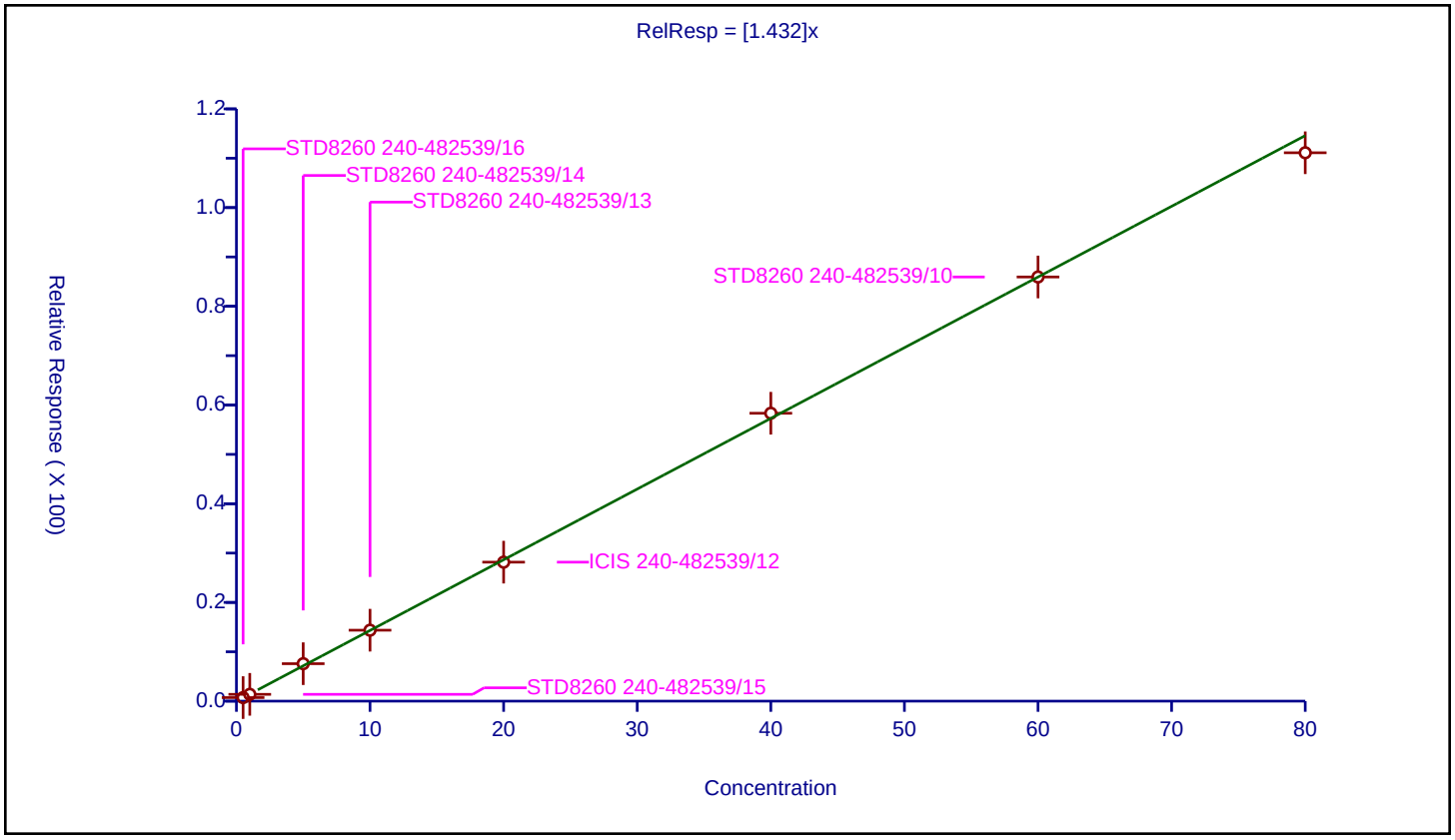
Curve Coefficients

Intercept:	0
Slope:	1.432

Error Coefficients

Standard Error:	3450000
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 240-482539/16	0.5	0.71918	20.0	954643.0	1.43836	Y
2	STD8260 240-482539/15	1.0	1.376101	20.0	962589.0	1.376101	Y
3	STD8260 240-482539/14	5.0	7.592838	20.0	1036972.0	1.518568	Y
4	STD8260 240-482539/13	10.0	14.375507	20.0	1113512.0	1.437551	Y
5	ICIS 240-482539/12	20.0	28.160523	20.0	1138182.0	1.408026	Y
6	STD8260 240-482539/11	40.0	58.335781	20.0	1172490.0	1.458395	Y
7	STD8260 240-482539/10	60.0	85.943347	20.0	1177165.0	1.432389	Y
8	STD8260 240-482539/9	80.0	111.113973	20.0	1175011.0	1.388925	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

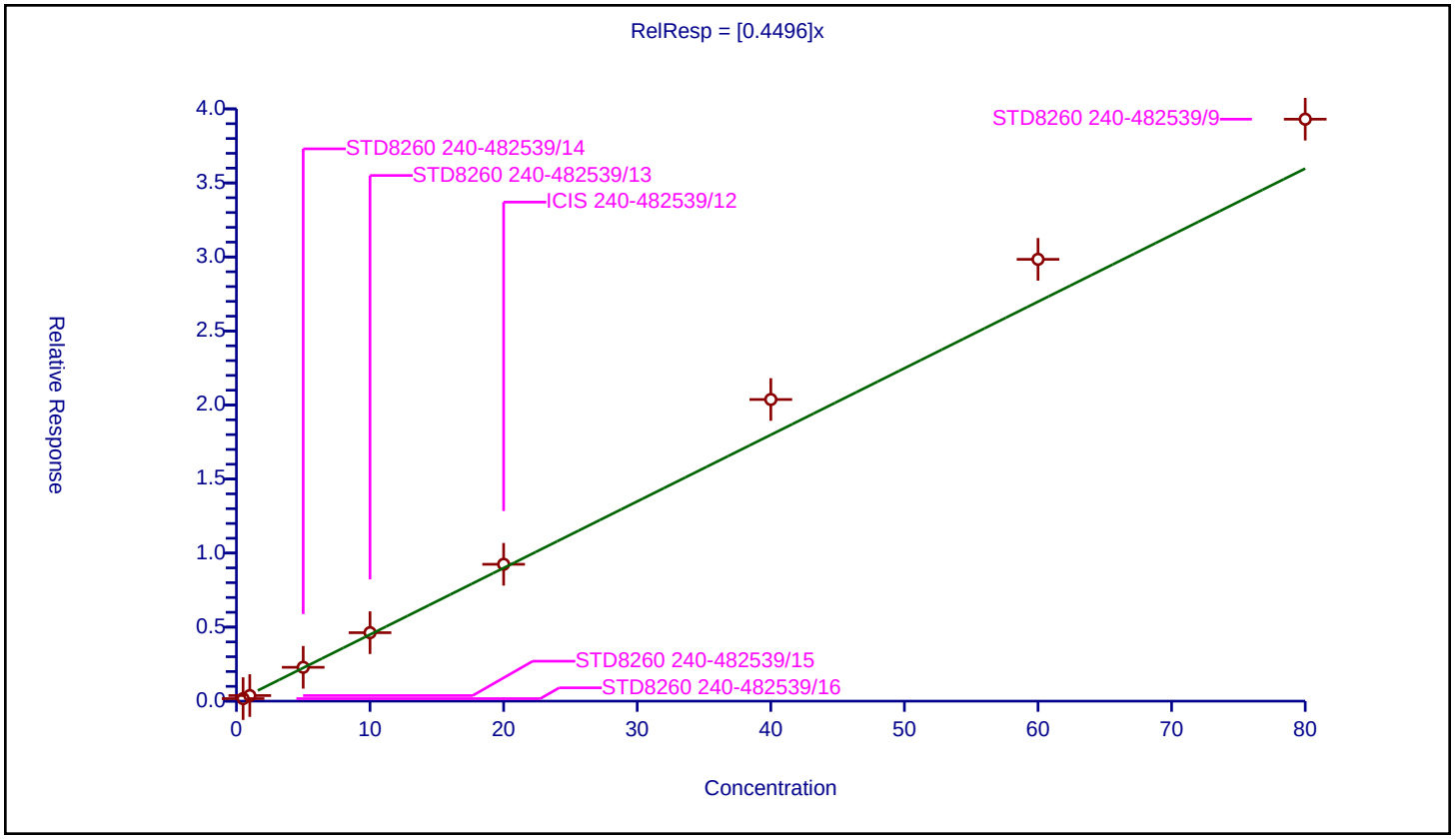
Curve Coefficients

Intercept:	0
Slope:	0.4496

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	13.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.170493	20.0	954643.0	0.340986	Y
2	STD8260 240-482539/15	1.0	0.376152	20.0	962589.0	0.376152	Y
3	STD8260 240-482539/14	5.0	2.286098	20.0	1036972.0	0.45722	Y
4	STD8260 240-482539/13	10.0	4.624791	20.0	1113512.0	0.462479	Y
5	ICIS 240-482539/12	20.0	9.244128	20.0	1138182.0	0.462206	Y
6	STD8260 240-482539/11	40.0	20.372029	20.0	1172490.0	0.509301	Y
7	STD8260 240-482539/10	60.0	29.840031	20.0	1177165.0	0.497334	Y
8	STD8260 240-482539/9	80.0	39.304364	20.0	1175011.0	0.491305	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

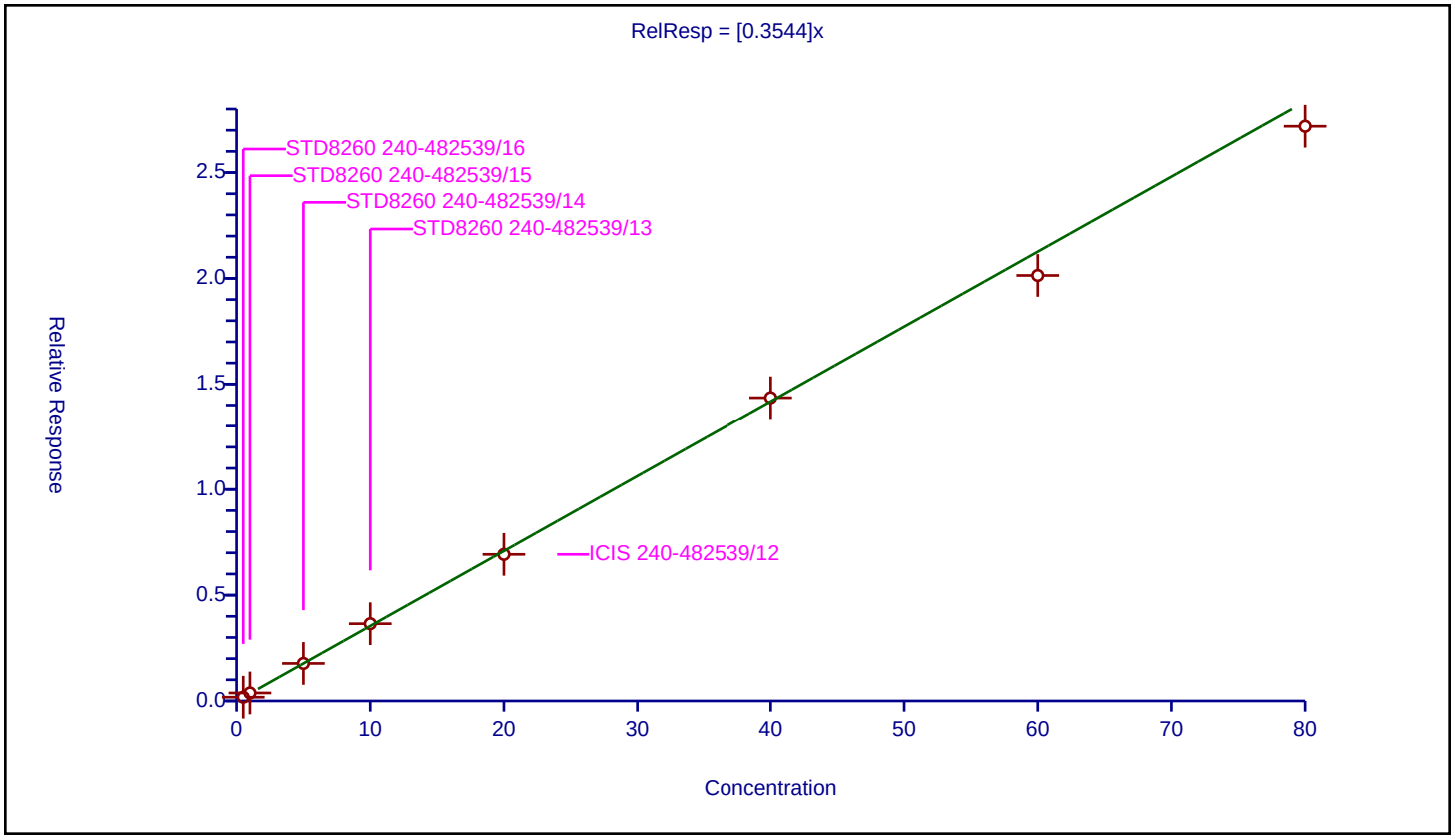
Curve Coefficients

Intercept:	0
Slope:	0.3544

Error Coefficients

Standard Error:	834000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.178182	20.0	954643.0	0.356364	Y
2	STD8260 240-482539/15	1.0	0.378396	20.0	962589.0	0.378396	Y
3	STD8260 240-482539/14	5.0	1.773008	20.0	1036972.0	0.354602	Y
4	STD8260 240-482539/13	10.0	3.650504	20.0	1113512.0	0.36505	Y
5	ICIS 240-482539/12	20.0	6.927732	20.0	1138182.0	0.346387	Y
6	STD8260 240-482539/11	40.0	14.350485	20.0	1172490.0	0.358762	Y
7	STD8260 240-482539/10	60.0	20.138247	20.0	1177165.0	0.335637	Y
8	STD8260 240-482539/9	80.0	27.188971	20.0	1175011.0	0.339862	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

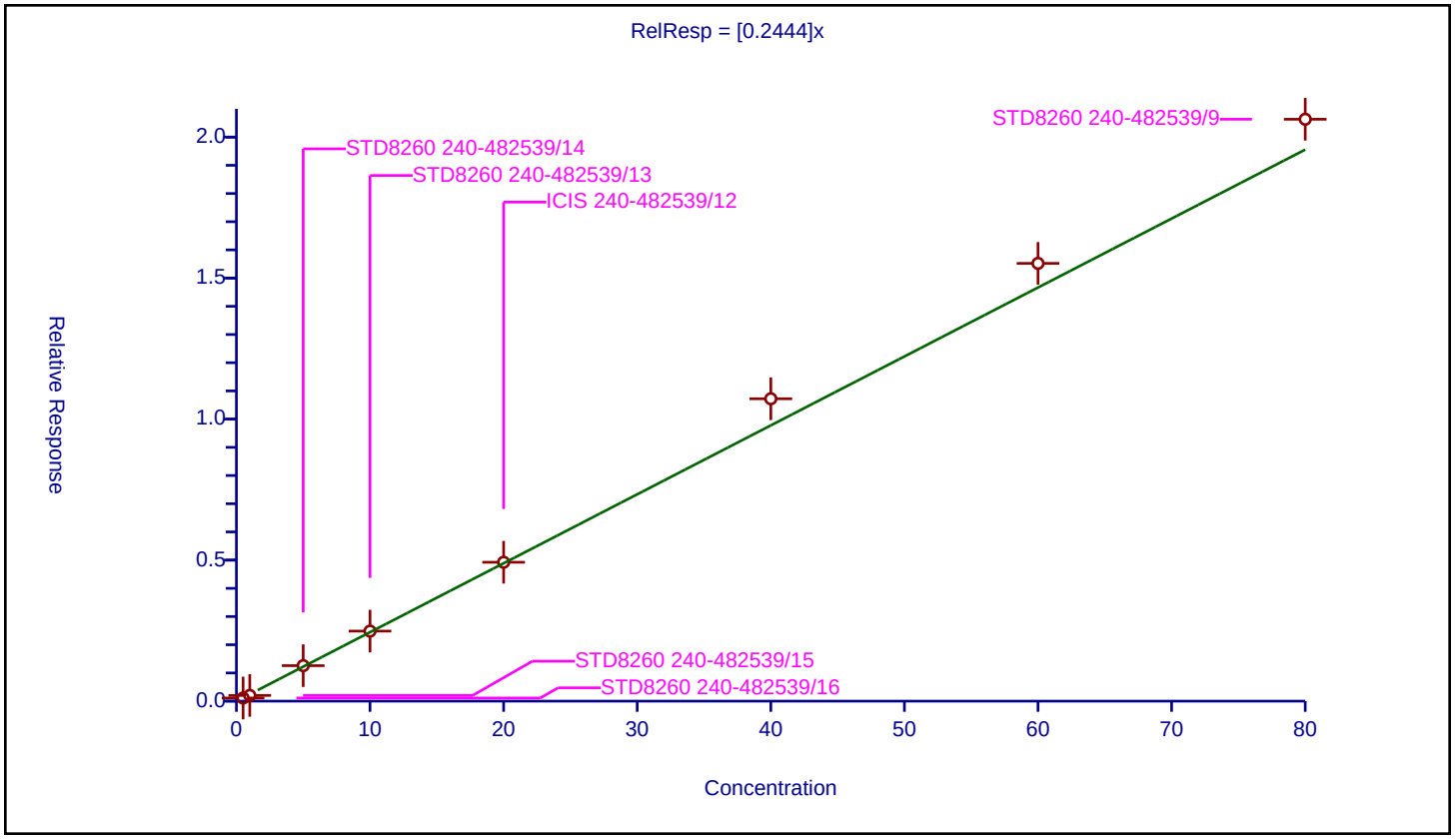
Curve Coefficients

Intercept:	0
Slope:	0.2444

Error Coefficients

Standard Error:	633000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.110869	20.0	954643.0	0.221737	Y
2	STD8260 240-482539/15	1.0	0.202828	20.0	962589.0	0.202828	Y
3	STD8260 240-482539/14	5.0	1.258221	20.0	1036972.0	0.251644	Y
4	STD8260 240-482539/13	10.0	2.483691	20.0	1113512.0	0.248369	Y
5	ICIS 240-482539/12	20.0	4.924784	20.0	1138182.0	0.246239	Y
6	STD8260 240-482539/11	40.0	10.721985	20.0	1172490.0	0.26805	Y
7	STD8260 240-482539/10	60.0	15.522072	20.0	1177165.0	0.258701	Y
8	STD8260 240-482539/9	80.0	20.632828	20.0	1175011.0	0.25791	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

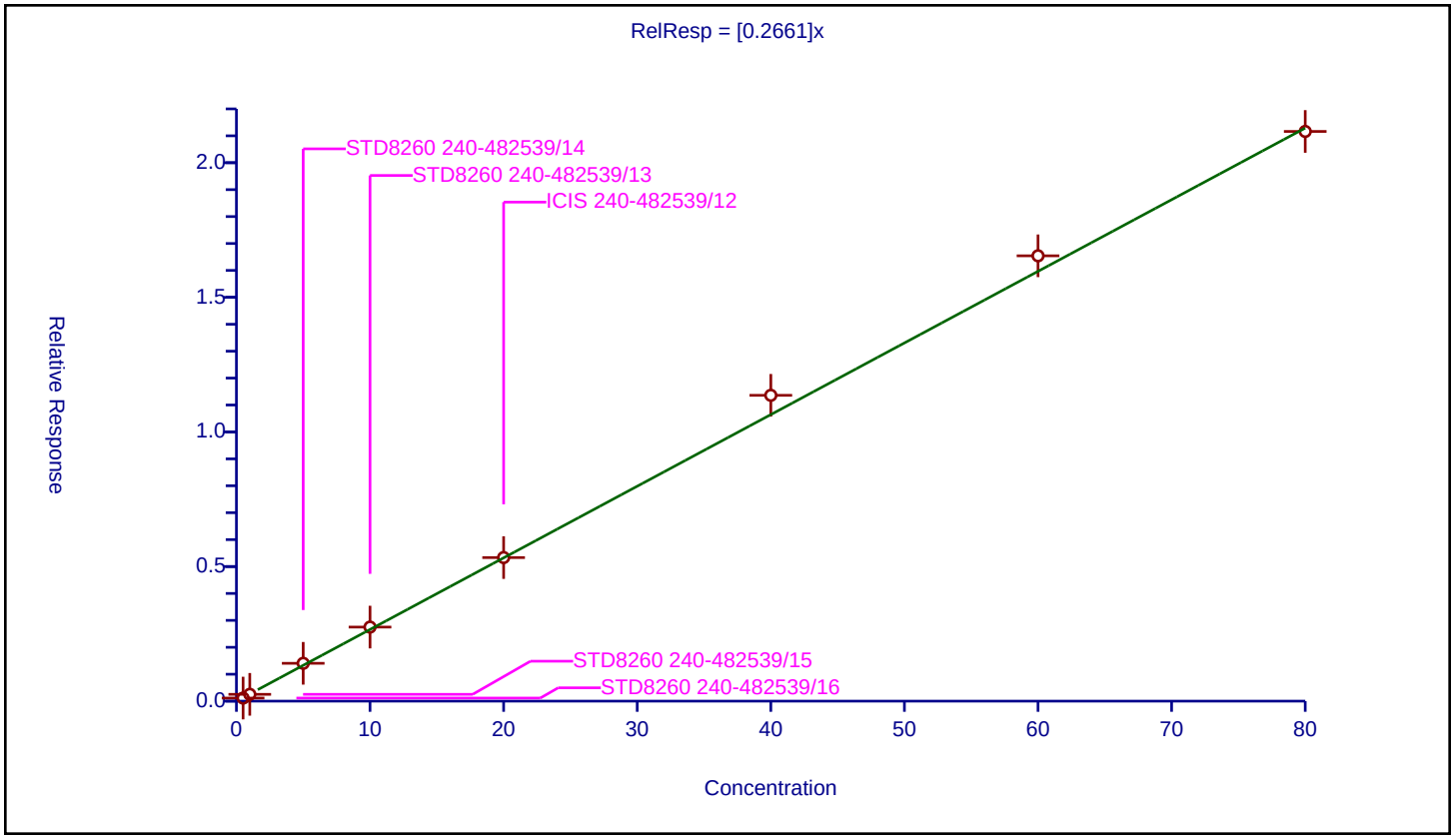
Curve Coefficients

Intercept:	0
Slope:	0.2661

Error Coefficients

Standard Error:	661000
Relative Standard Error:	6.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.114305	20.0	954643.0	0.228609	Y
2	STD8260 240-482539/15	1.0	0.253047	20.0	962589.0	0.253047	Y
3	STD8260 240-482539/14	5.0	1.40565	20.0	1036972.0	0.28113	Y
4	STD8260 240-482539/13	10.0	2.751115	20.0	1113512.0	0.275112	Y
5	ICIS 240-482539/12	20.0	5.33333	20.0	1138182.0	0.266666	Y
6	STD8260 240-482539/11	40.0	11.360012	20.0	1172490.0	0.284	Y
7	STD8260 240-482539/10	60.0	16.542218	20.0	1177165.0	0.275704	Y
8	STD8260 240-482539/9	80.0	21.161589	20.0	1175011.0	0.26452	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

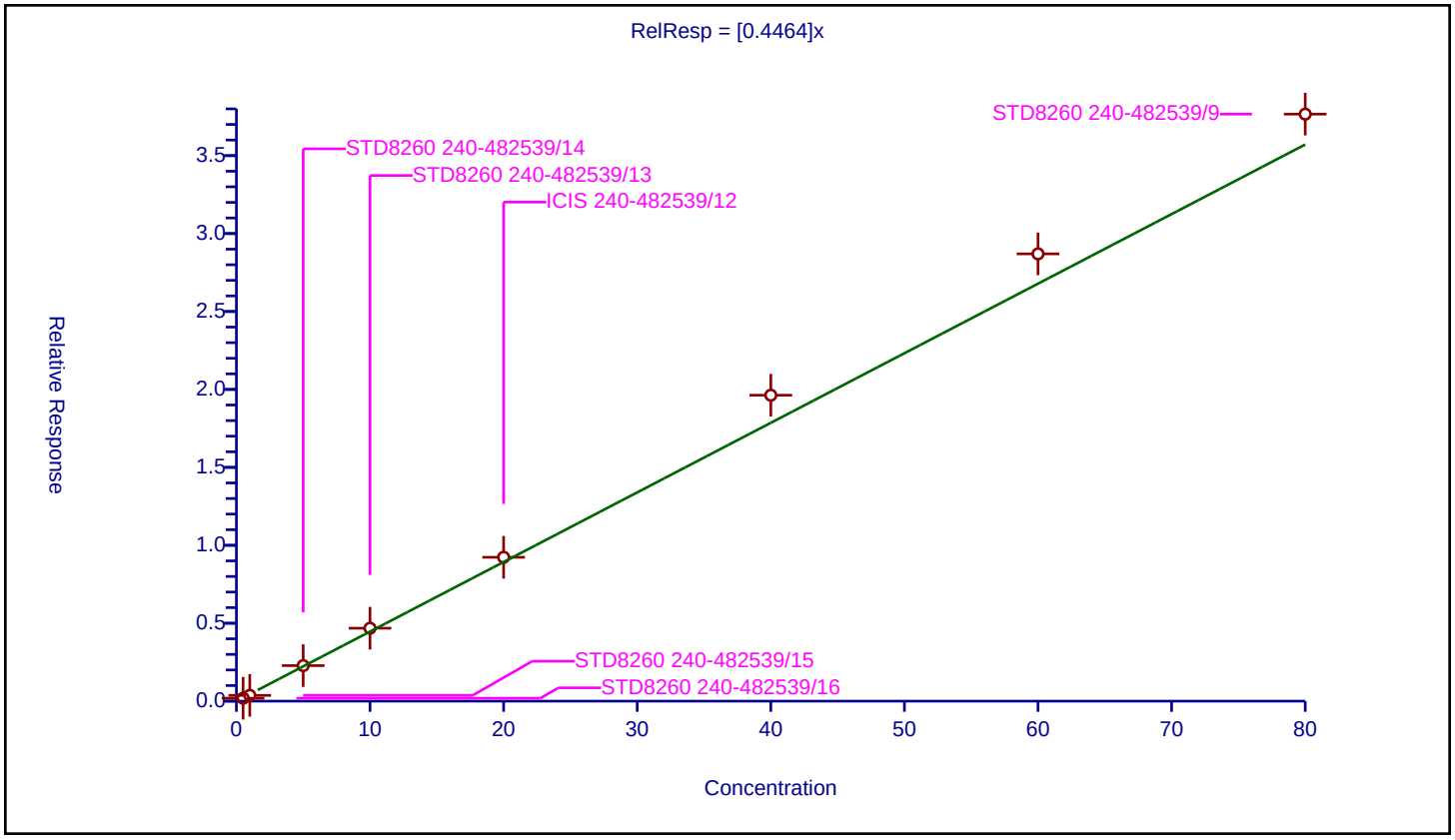
Curve Coefficients

Intercept:	0
Slope:	0.4464

Error Coefficients

Standard Error:	1160000
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	STD8260 240-482539/16	0.5	0.187756	20.0	954643.0	0.375512	Y
2	STD8260 240-482539/15	1.0	0.370522	20.0	962589.0	0.370522	Y
3	STD8260 240-482539/14	5.0	2.279907	20.0	1036972.0	0.455981	Y
4	STD8260 240-482539/13	10.0	4.679411	20.0	1113512.0	0.467941	Y
5	ICIS 240-482539/12	20.0	9.231142	20.0	1138182.0	0.461557	Y
6	STD8260 240-482539/11	40.0	19.629711	20.0	1172490.0	0.490743	Y
7	STD8260 240-482539/10	60.0	28.698475	20.0	1177165.0	0.478308	Y
8	STD8260 240-482539/9	80.0	37.663937	20.0	1175011.0	0.470799	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

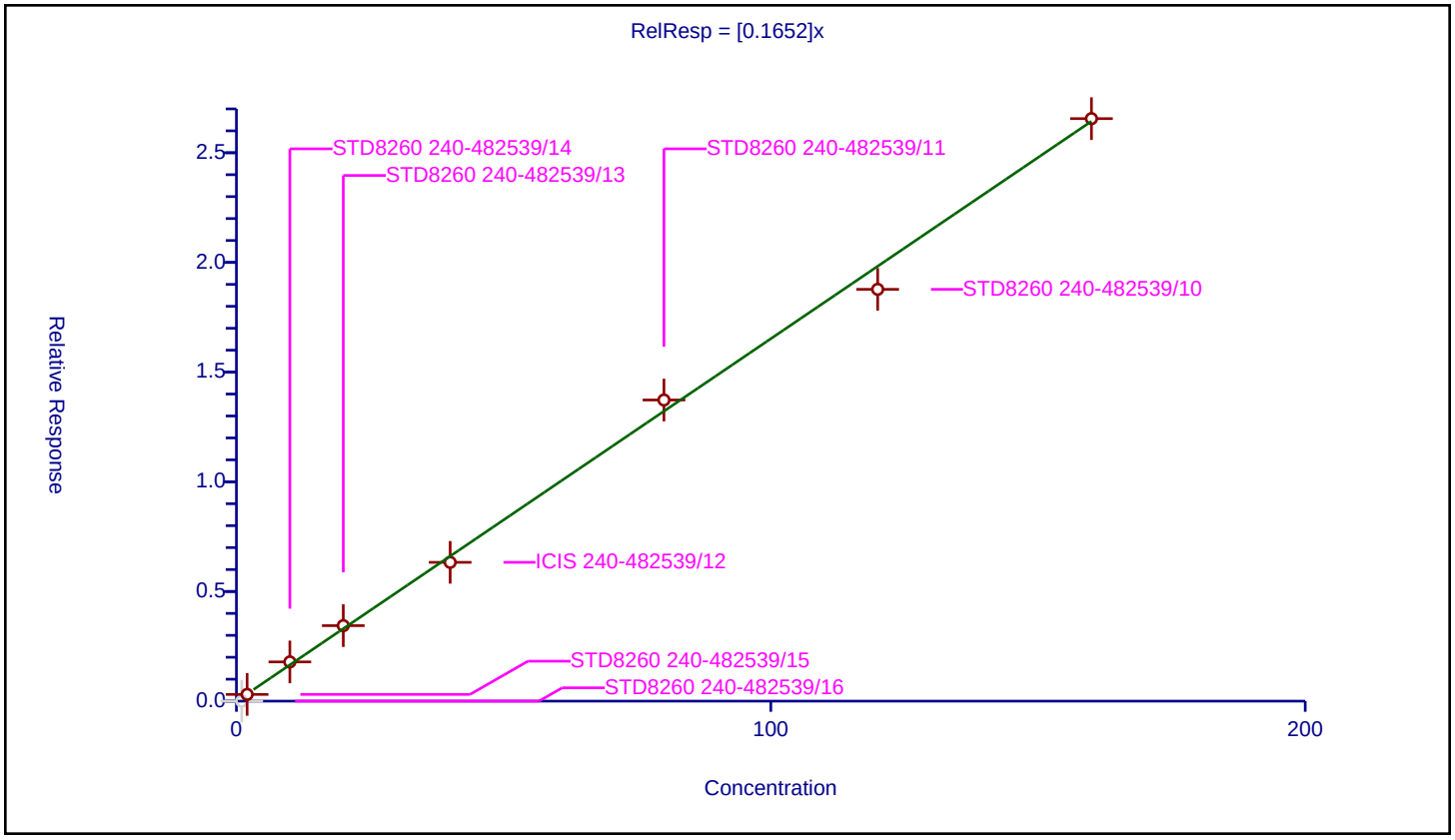
Curve Coefficients

Intercept:	0
Slope:	0.1652

Error Coefficients

Standard Error:	864000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	1.0	0.0	20.0	954643.0	0.0	N
2	STD8260 240-482539/15	2.0	0.306943	20.0	962589.0	0.153472	Y
3	STD8260 240-482539/14	10.0	1.78784	20.0	1036972.0	0.178784	Y
4	STD8260 240-482539/13	20.0	3.441526	20.0	1113512.0	0.172076	Y
5	ICIS 240-482539/12	40.0	6.327301	20.0	1138182.0	0.158183	Y
6	STD8260 240-482539/11	80.0	13.728816	20.0	1172490.0	0.17161	Y
7	STD8260 240-482539/10	120.0	18.77397	20.0	1177165.0	0.15645	Y
8	STD8260 240-482539/9	160.0	26.555002	20.0	1175011.0	0.165969	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

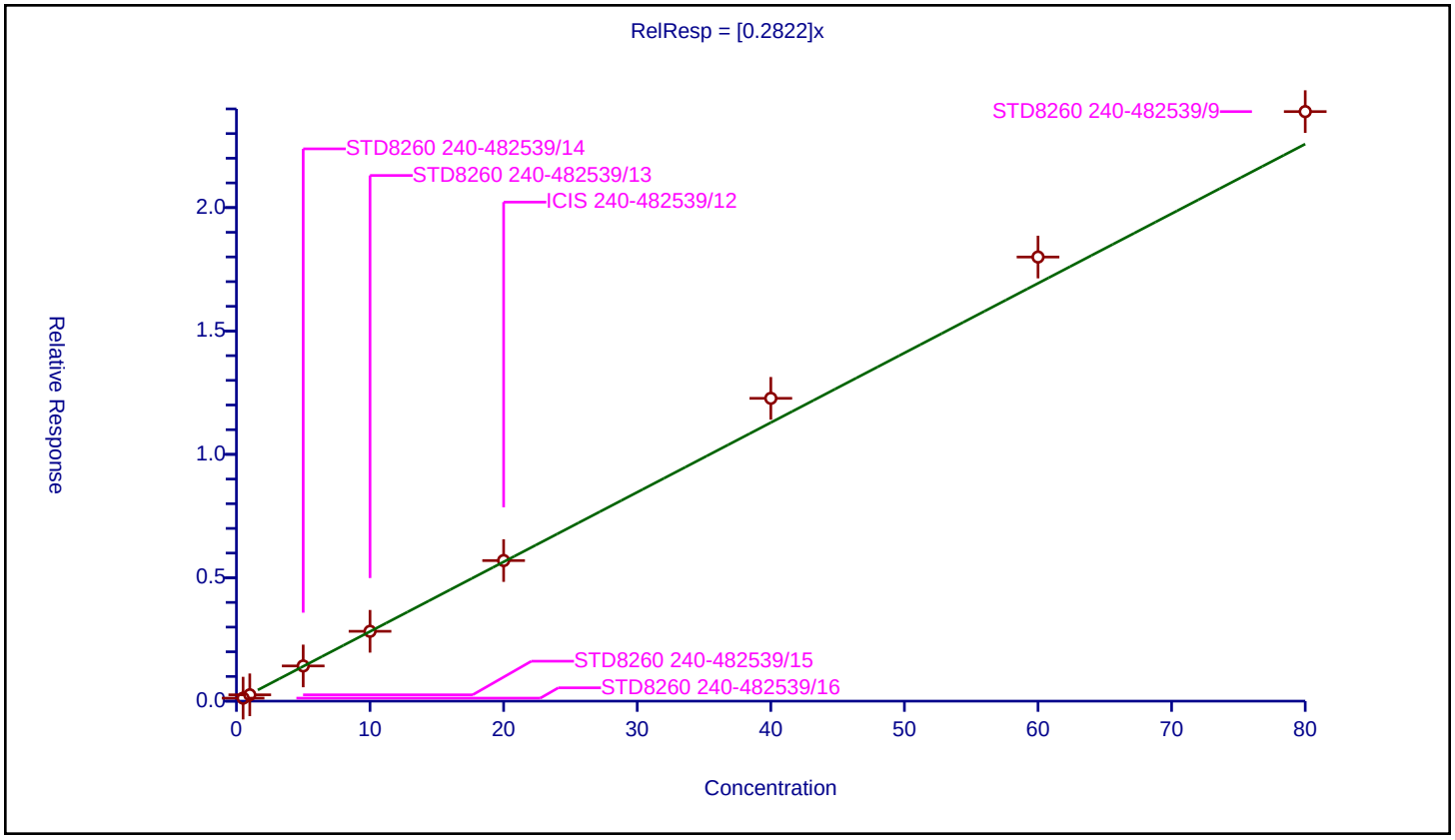
Curve Coefficients

Intercept:	0
Slope:	0.2822

Error Coefficients

Standard Error:	731000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.121553	20.0	954643.0	0.243107	Y
2	STD8260 240-482539/15	1.0	0.255956	20.0	962589.0	0.255956	Y
3	STD8260 240-482539/14	5.0	1.426172	20.0	1036972.0	0.285234	Y
4	STD8260 240-482539/13	10.0	2.830055	20.0	1113512.0	0.283005	Y
5	ICIS 240-482539/12	20.0	5.697015	20.0	1138182.0	0.284851	Y
6	STD8260 240-482539/11	40.0	12.271422	20.0	1172490.0	0.306786	Y
7	STD8260 240-482539/10	60.0	17.996967	20.0	1177165.0	0.299949	Y
8	STD8260 240-482539/9	80.0	23.88987	20.0	1175011.0	0.298623	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

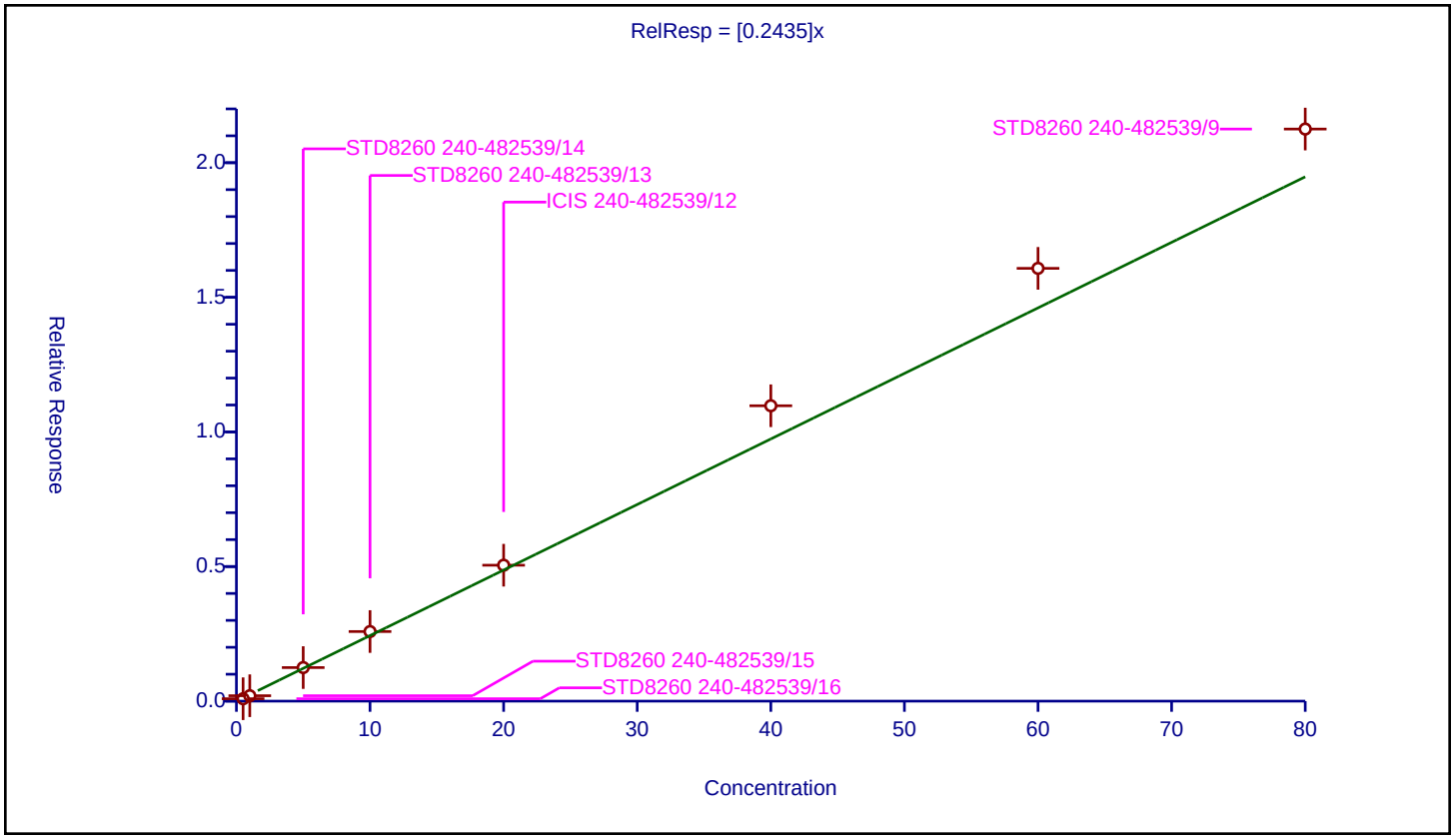
Curve Coefficients

Intercept:	0
Slope:	0.2435

Error Coefficients

Standard Error:	652000
Relative Standard Error:	14.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.089122	20.0	954643.0	0.178245	Y
2	STD8260 240-482539/15	1.0	0.201124	20.0	962589.0	0.201124	Y
3	STD8260 240-482539/14	5.0	1.247305	20.0	1036972.0	0.249461	Y
4	STD8260 240-482539/13	10.0	2.585208	20.0	1113512.0	0.258521	Y
5	ICIS 240-482539/12	20.0	5.04921	20.0	1138182.0	0.252461	Y
6	STD8260 240-482539/11	40.0	10.972529	20.0	1172490.0	0.274313	Y
7	STD8260 240-482539/10	60.0	16.076608	20.0	1177165.0	0.267943	Y
8	STD8260 240-482539/9	80.0	21.251256	20.0	1175011.0	0.265641	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

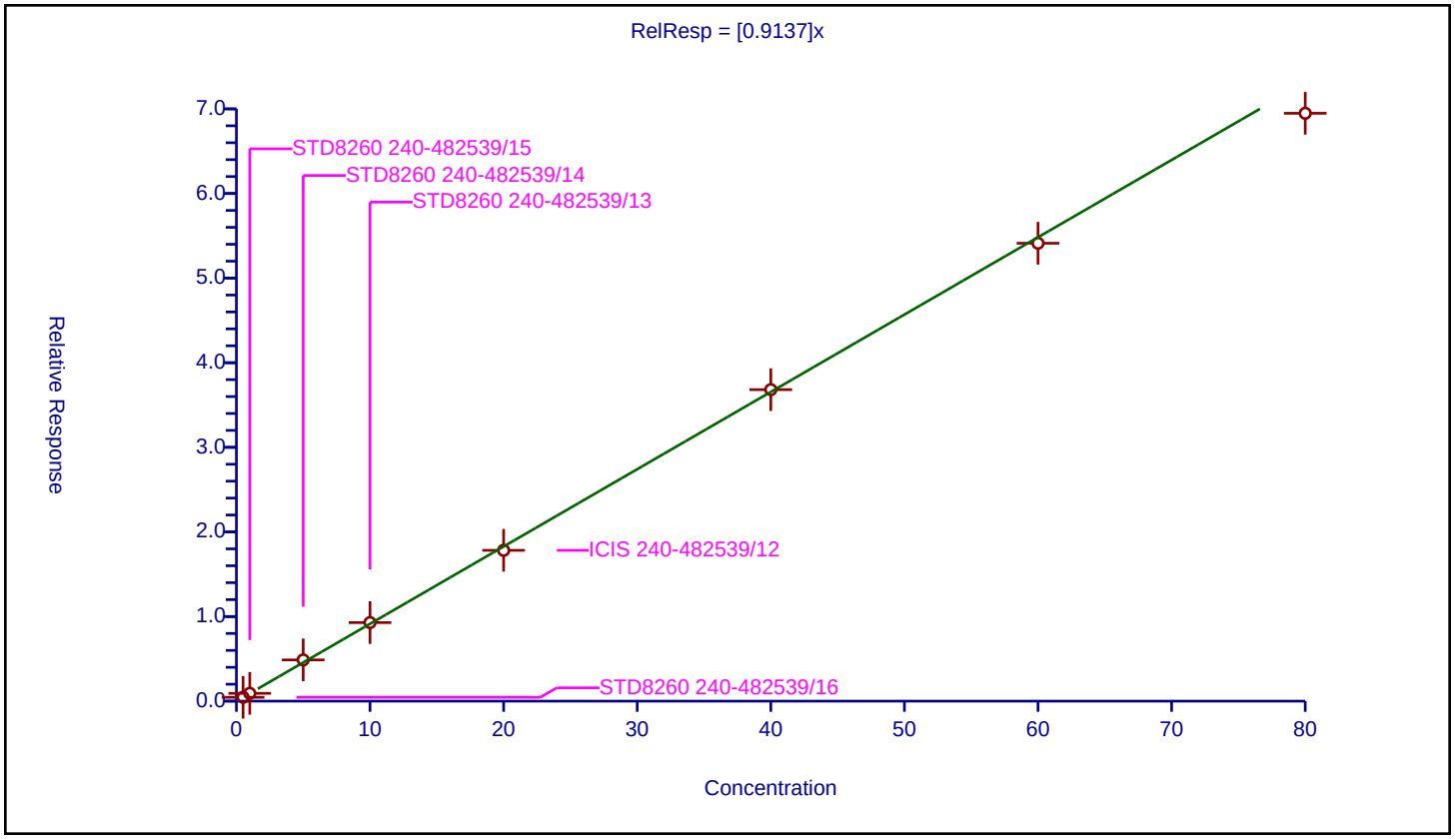
Curve Coefficients

Intercept:	0
Slope:	0.9137

Error Coefficients

Standard Error:	2170000
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 240-482539/16	0.5	0.451708	20.0	954643.0	0.903416	Y
2	STD8260 240-482539/15	1.0	0.920912	20.0	962589.0	0.920912	Y
3	STD8260 240-482539/14	5.0	4.874712	20.0	1036972.0	0.974942	Y
4	STD8260 240-482539/13	10.0	9.284372	20.0	1113512.0	0.928437	Y
5	ICIS 240-482539/12	20.0	17.826182	20.0	1138182.0	0.891309	Y
6	STD8260 240-482539/11	40.0	36.816621	20.0	1172490.0	0.920416	Y
7	STD8260 240-482539/10	60.0	54.12023	20.0	1177165.0	0.902004	Y
8	STD8260 240-482539/9	80.0	69.479639	20.0	1175011.0	0.868495	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

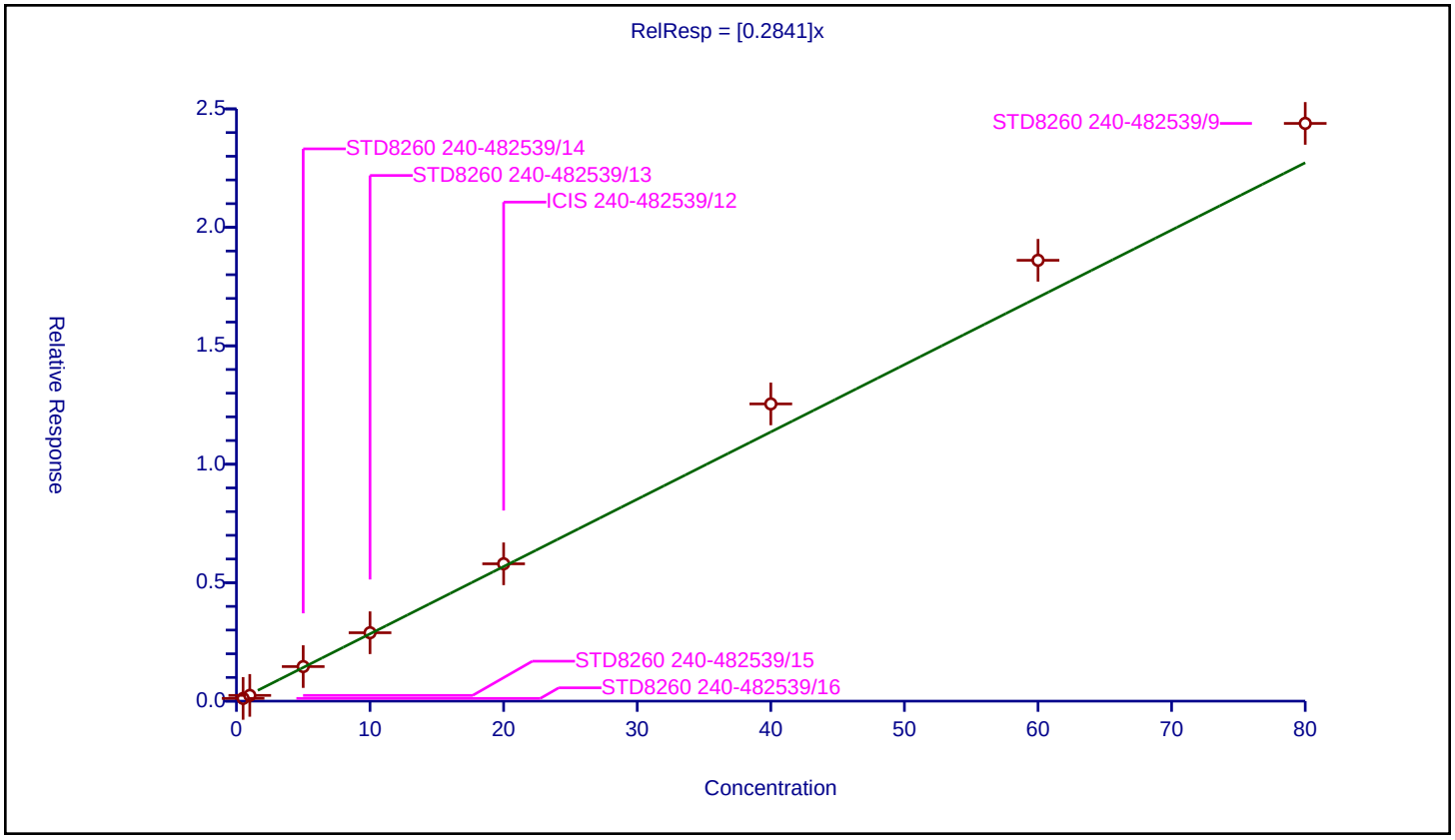
Curve Coefficients

Intercept:	0
Slope:	0.2841

Error Coefficients

Standard Error:	750000
Relative Standard Error:	10.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.115687	20.0	954643.0	0.231374	Y
2	STD8260 240-482539/15	1.0	0.242201	20.0	962589.0	0.242201	Y
3	STD8260 240-482539/14	5.0	1.458766	20.0	1036972.0	0.291753	Y
4	STD8260 240-482539/13	10.0	2.887495	20.0	1113512.0	0.288749	Y
5	ICIS 240-482539/12	20.0	5.797509	20.0	1138182.0	0.289875	Y
6	STD8260 240-482539/11	40.0	12.546887	20.0	1172490.0	0.313672	Y
7	STD8260 240-482539/10	60.0	18.609541	20.0	1177165.0	0.310159	Y
8	STD8260 240-482539/9	80.0	24.387448	20.0	1175011.0	0.304843	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

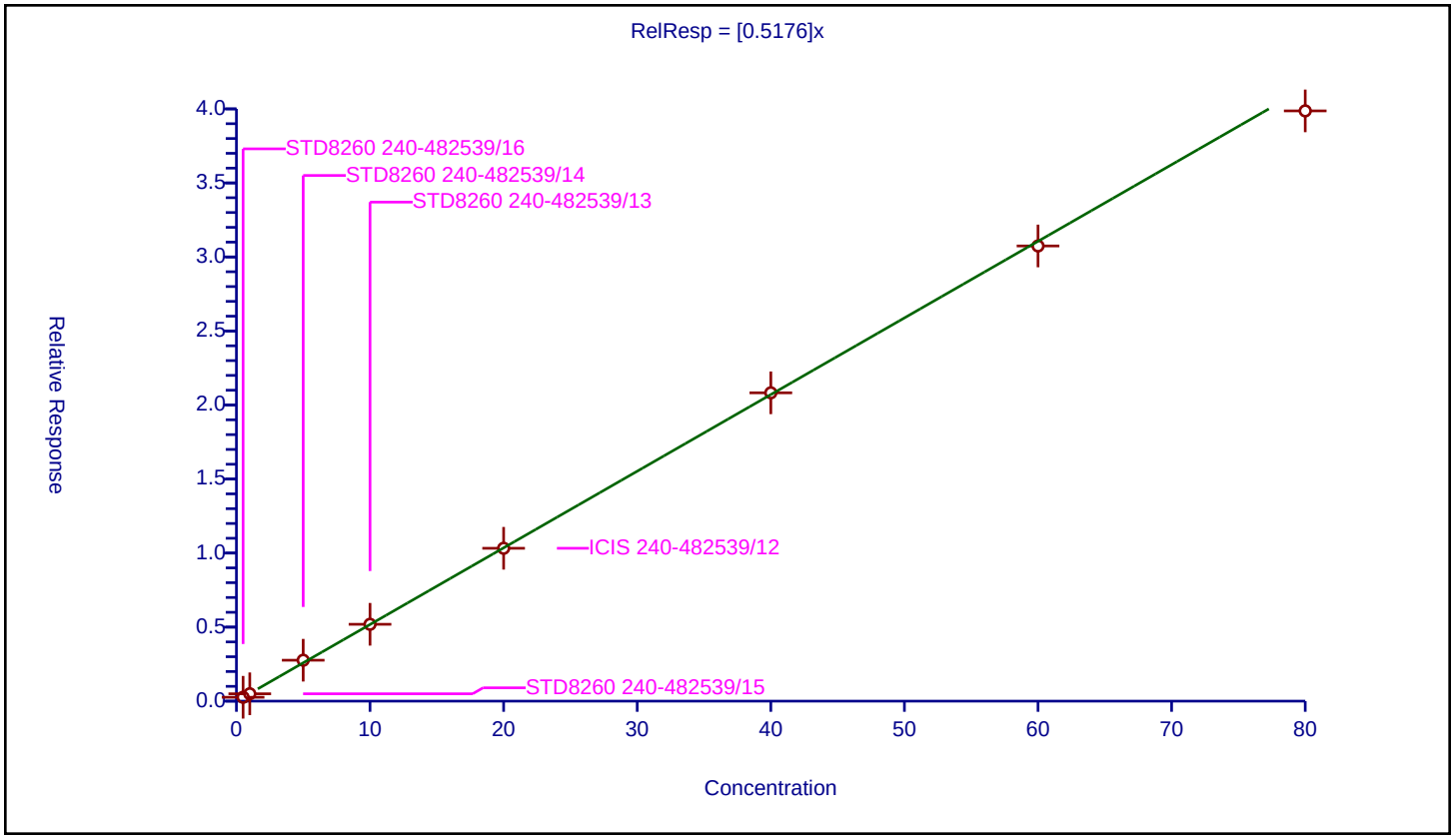
Curve Coefficients

Intercept:	0
Slope:	0.5176

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.262004	20.0	954643.0	0.524007	Y
2	STD8260 240-482539/15	1.0	0.497762	20.0	962589.0	0.497762	Y
3	STD8260 240-482539/14	5.0	2.763835	20.0	1036972.0	0.552767	Y
4	STD8260 240-482539/13	10.0	5.189922	20.0	1113512.0	0.518992	Y
5	ICIS 240-482539/12	20.0	10.324096	20.0	1138182.0	0.516205	Y
6	STD8260 240-482539/11	40.0	20.823922	20.0	1172490.0	0.520598	Y
7	STD8260 240-482539/10	60.0	30.742419	20.0	1177165.0	0.512374	Y
8	STD8260 240-482539/9	80.0	39.864631	20.0	1175011.0	0.498308	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

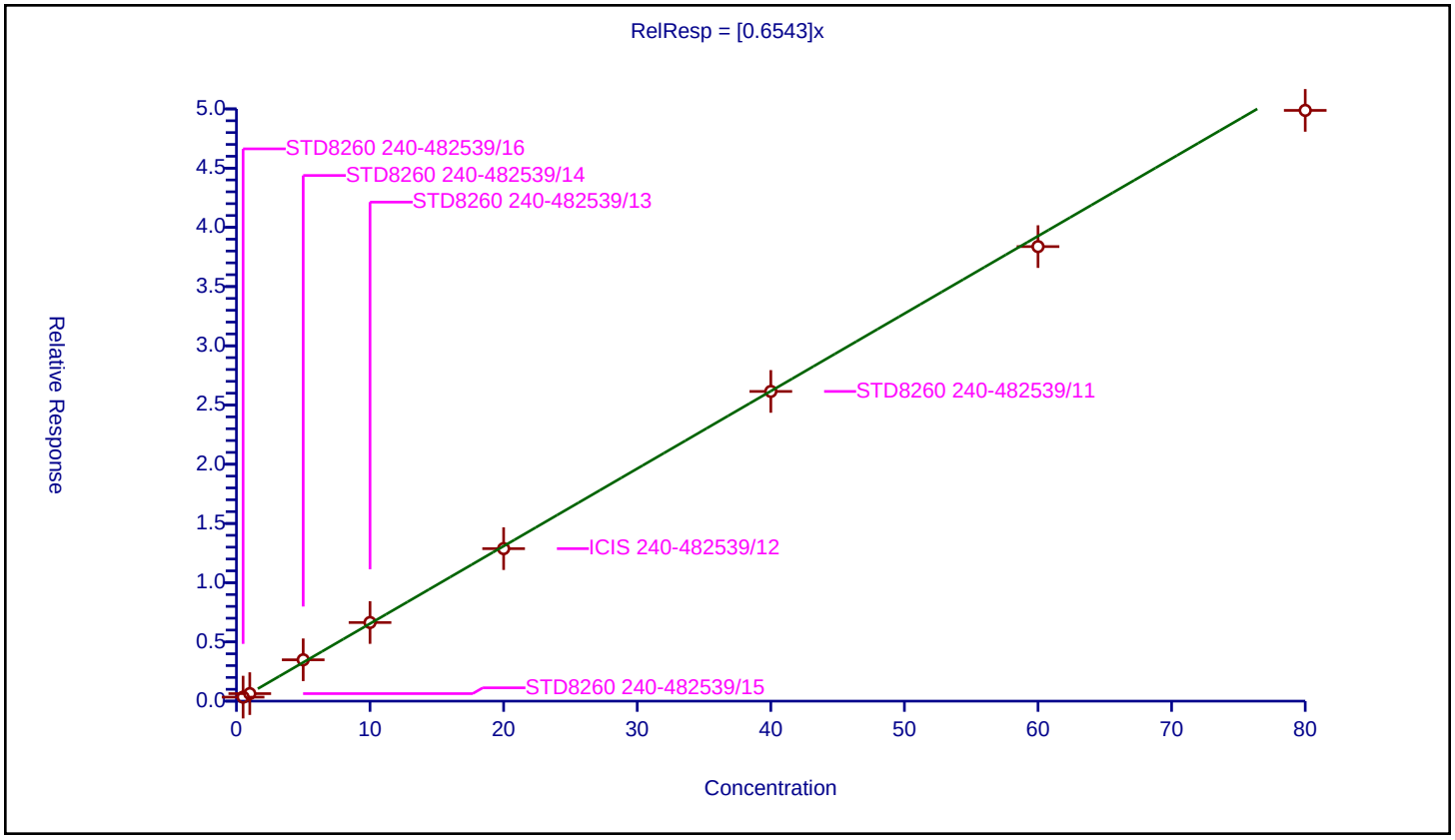
Curve Coefficients

Intercept:	0
Slope:	0.6543

Error Coefficients

Standard Error:	1550000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.3382	20.0	954643.0	0.676399	Y
2	STD8260 240-482539/15	1.0	0.635952	20.0	962589.0	0.635952	Y
3	STD8260 240-482539/14	5.0	3.490181	20.0	1036972.0	0.698036	Y
4	STD8260 240-482539/13	10.0	6.639839	20.0	1113512.0	0.663984	Y
5	ICIS 240-482539/12	20.0	12.874795	20.0	1138182.0	0.64374	Y
6	STD8260 240-482539/11	40.0	26.146219	20.0	1172490.0	0.653655	Y
7	STD8260 240-482539/10	60.0	38.374213	20.0	1177165.0	0.63957	Y
8	STD8260 240-482539/9	80.0	49.874512	20.0	1175011.0	0.623431	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

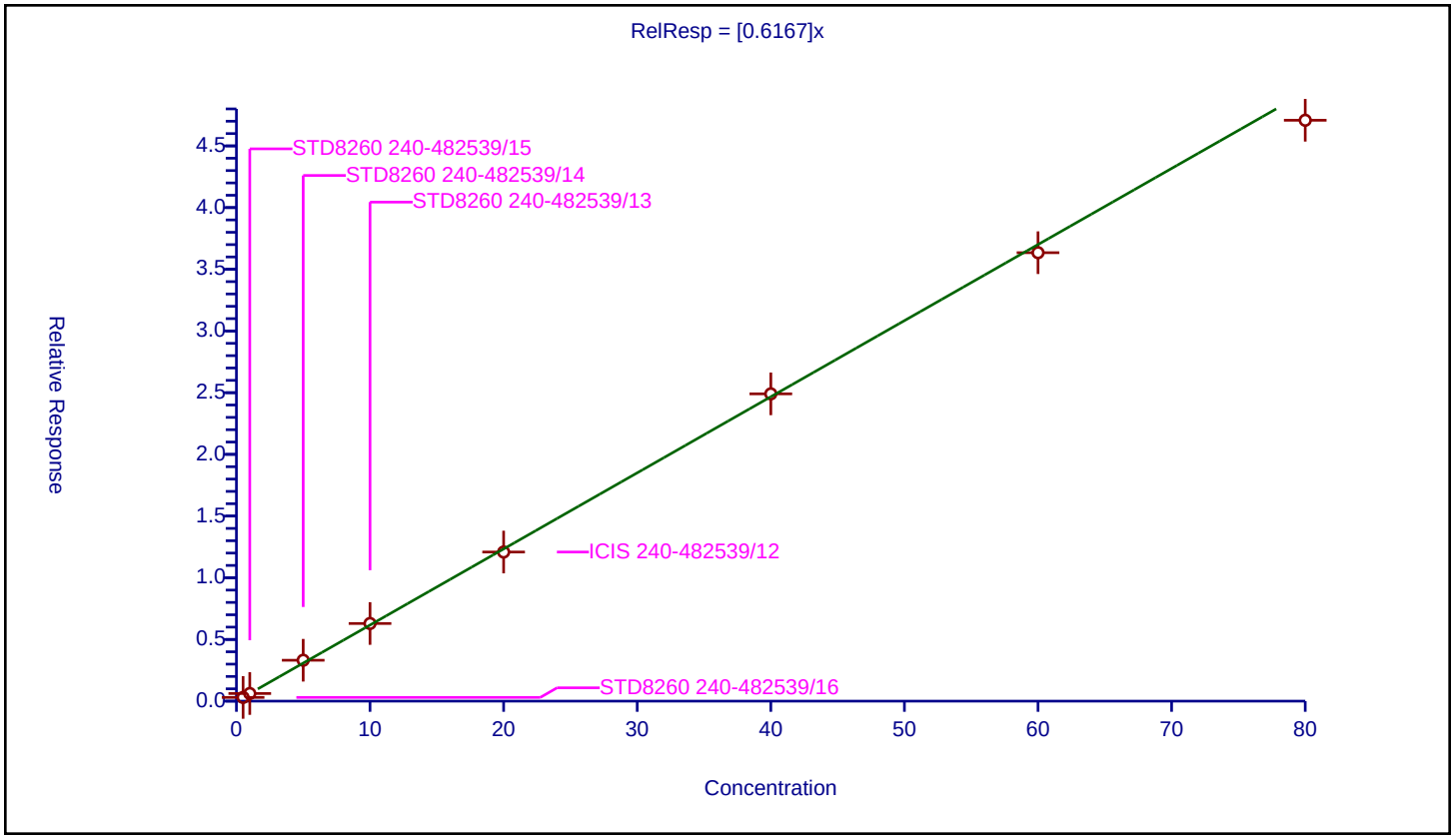
Curve Coefficients

Intercept:	0
Slope:	0.6167

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.301306	20.0	954643.0	0.602613	Y
2	STD8260 240-482539/15	1.0	0.617979	20.0	962589.0	0.617979	Y
3	STD8260 240-482539/14	5.0	3.314824	20.0	1036972.0	0.662965	Y
4	STD8260 240-482539/13	10.0	6.293367	20.0	1113512.0	0.629337	Y
5	ICIS 240-482539/12	20.0	12.08464	20.0	1138182.0	0.604232	Y
6	STD8260 240-482539/11	40.0	24.904281	20.0	1172490.0	0.622607	Y
7	STD8260 240-482539/10	60.0	36.344574	20.0	1177165.0	0.605743	Y
8	STD8260 240-482539/9	80.0	47.077312	20.0	1175011.0	0.588466	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

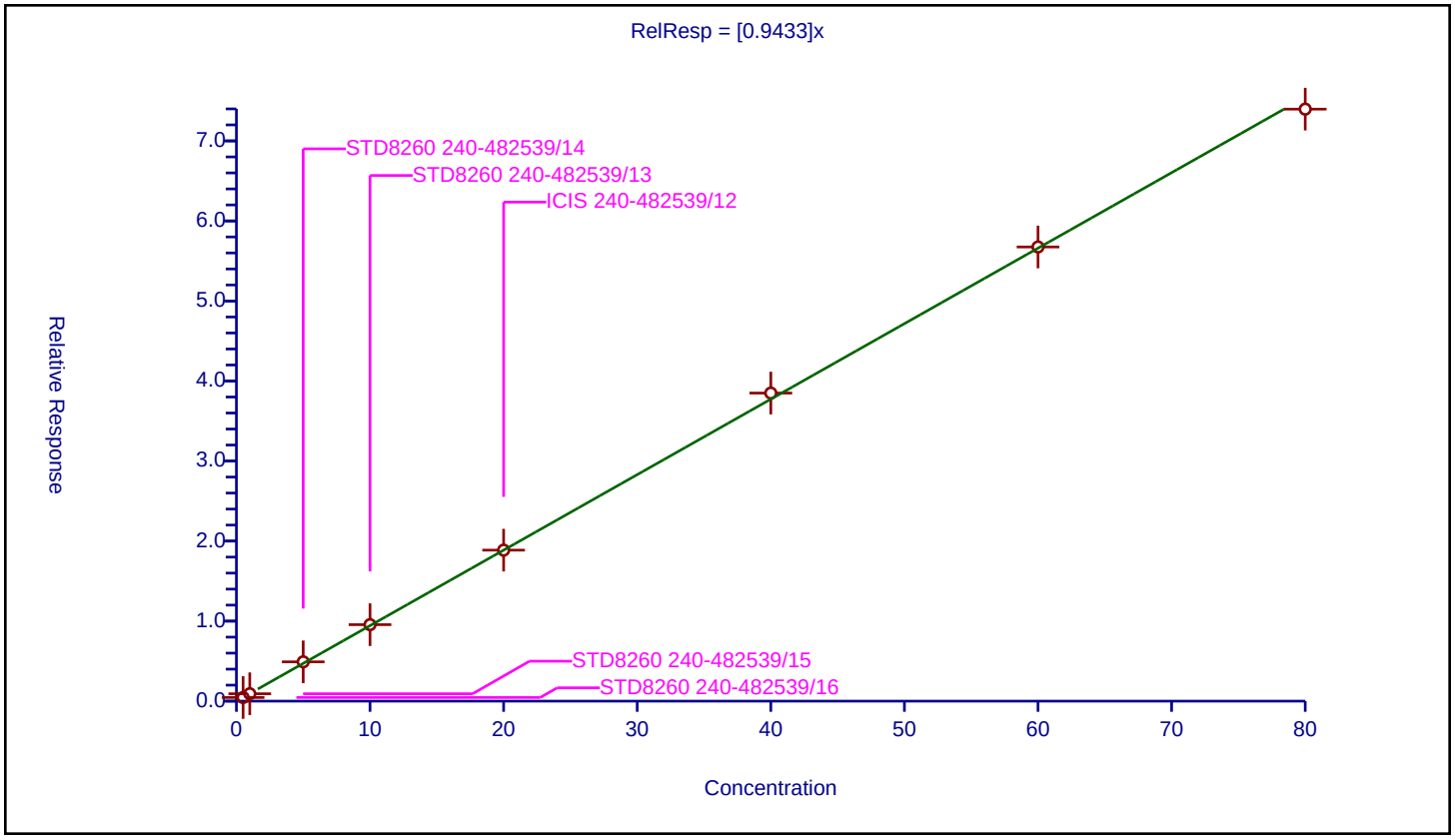
Curve Coefficients

Intercept:	0
Slope:	0.9433

Error Coefficients

Standard Error:	2290000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.455144	20.0	954643.0	0.910288	Y
2	STD8260 240-482539/15	1.0	0.922346	20.0	962589.0	0.922346	Y
3	STD8260 240-482539/14	5.0	4.910972	20.0	1036972.0	0.982194	Y
4	STD8260 240-482539/13	10.0	9.55485	20.0	1113512.0	0.955485	Y
5	ICIS 240-482539/12	20.0	18.867018	20.0	1138182.0	0.943351	Y
6	STD8260 240-482539/11	40.0	38.492064	20.0	1172490.0	0.962302	Y
7	STD8260 240-482539/10	60.0	56.748969	20.0	1177165.0	0.945816	Y
8	STD8260 240-482539/9	80.0	73.971495	20.0	1175011.0	0.924644	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

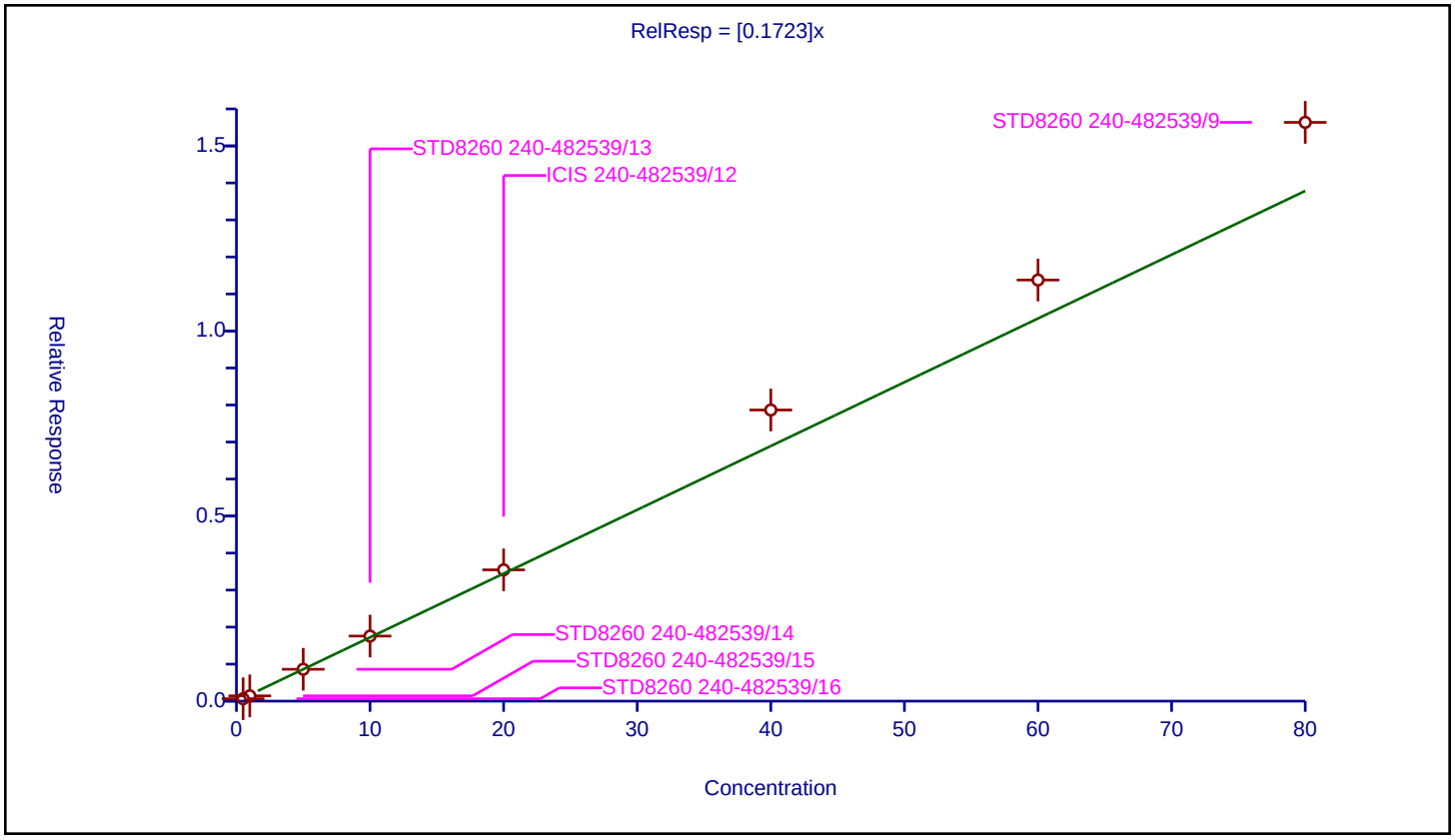
Curve Coefficients

Intercept:	0
Slope:	0.1723

Error Coefficients

Standard Error:	472000
Relative Standard Error:	14.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.064129	20.0	954643.0	0.128257	Y
2	STD8260 240-482539/15	1.0	0.143052	20.0	962589.0	0.143052	Y
3	STD8260 240-482539/14	5.0	0.861258	20.0	1036972.0	0.172252	Y
4	STD8260 240-482539/13	10.0	1.758077	20.0	1113512.0	0.175808	Y
5	ICIS 240-482539/12	20.0	3.546691	20.0	1138182.0	0.177335	Y
6	STD8260 240-482539/11	40.0	7.865091	20.0	1172490.0	0.196627	Y
7	STD8260 240-482539/10	60.0	11.377012	20.0	1177165.0	0.189617	Y
8	STD8260 240-482539/9	80.0	15.636177	20.0	1175011.0	0.195452	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

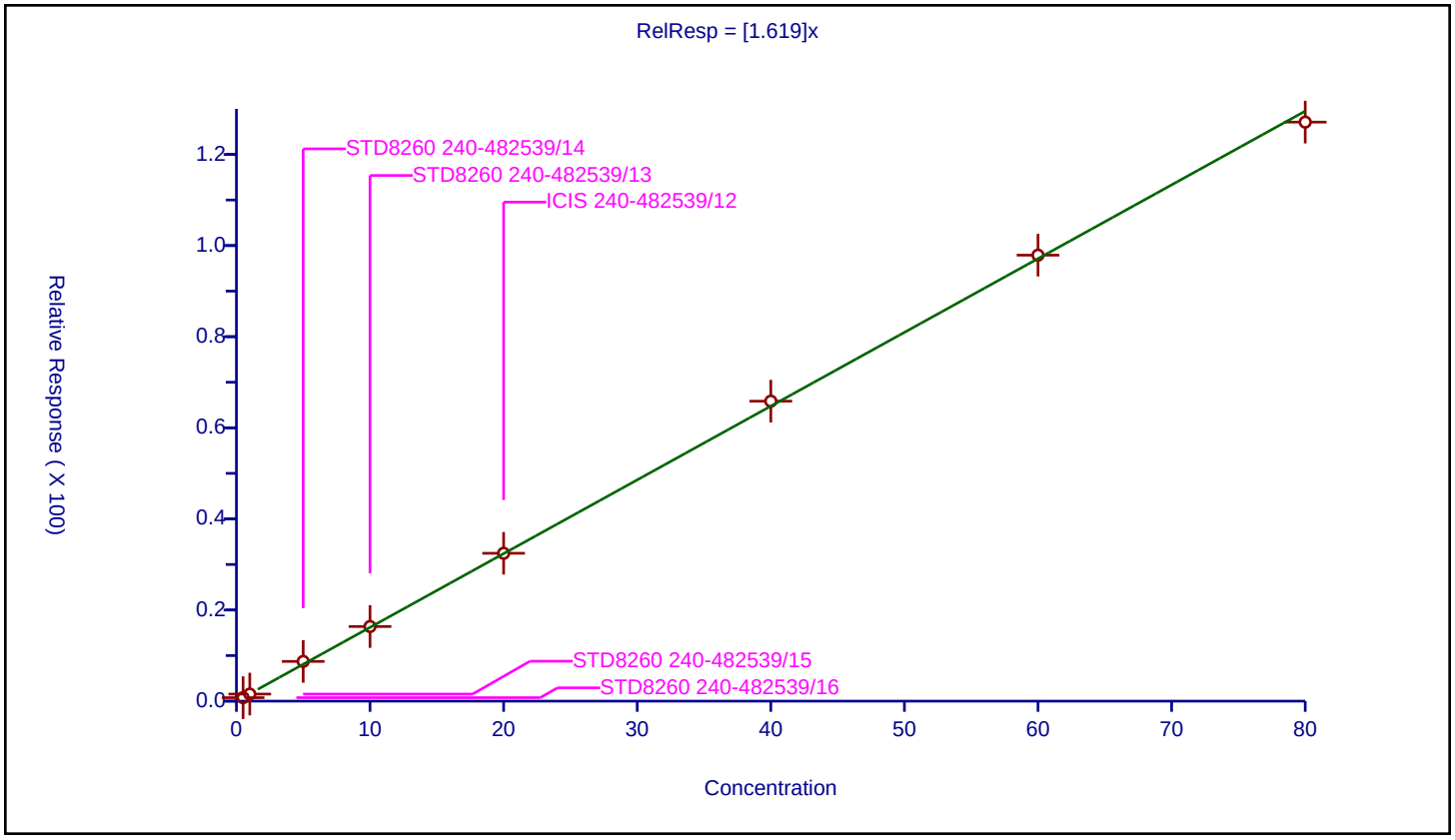
Curve Coefficients

Intercept:	0
Slope:	1.619

Error Coefficients

Standard Error:	3930000
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 240-482539/16	0.5	0.763971	20.0	954643.0	1.527943	Y
2	STD8260 240-482539/15	1.0	1.551649	20.0	962589.0	1.551649	Y
3	STD8260 240-482539/14	5.0	8.720062	20.0	1036972.0	1.744012	Y
4	STD8260 240-482539/13	10.0	16.378629	20.0	1113512.0	1.637863	Y
5	ICIS 240-482539/12	20.0	32.457814	20.0	1138182.0	1.622891	Y
6	STD8260 240-482539/11	40.0	65.843683	20.0	1172490.0	1.646092	Y
7	STD8260 240-482539/10	60.0	97.893685	20.0	1177165.0	1.631561	Y
8	STD8260 240-482539/9	80.0	127.101057	20.0	1175011.0	1.588763	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

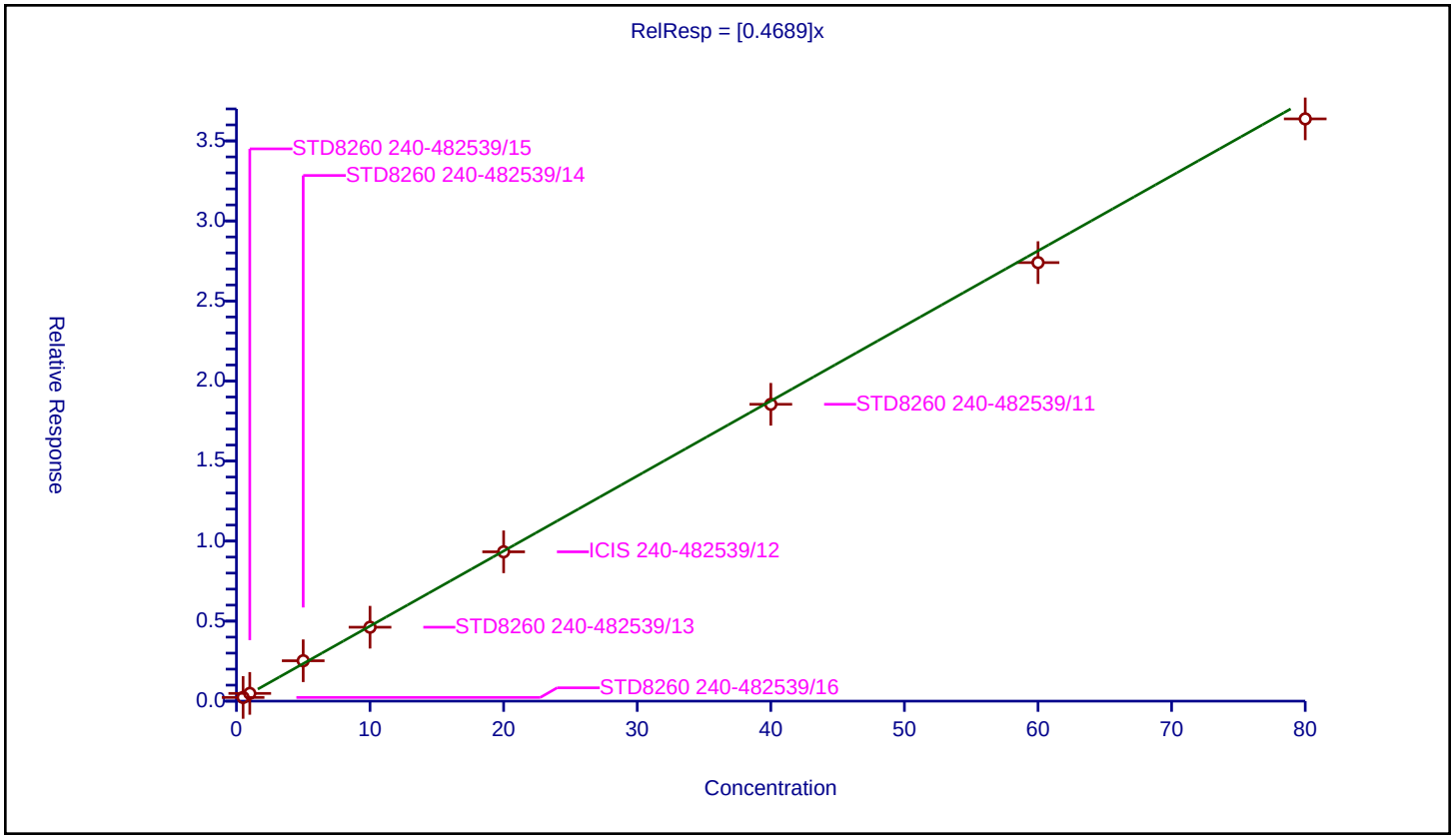
Curve Coefficients

Intercept:	0
Slope:	0.4689

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.230076	20.0	954643.0	0.460151	Y
2	STD8260 240-482539/15	1.0	0.482823	20.0	962589.0	0.482823	Y
3	STD8260 240-482539/14	5.0	2.52406	20.0	1036972.0	0.504812	Y
4	STD8260 240-482539/13	10.0	4.618594	20.0	1113512.0	0.461859	Y
5	ICIS 240-482539/12	20.0	9.329492	20.0	1138182.0	0.466475	Y
6	STD8260 240-482539/11	40.0	18.544499	20.0	1172490.0	0.463612	Y
7	STD8260 240-482539/10	60.0	27.397892	20.0	1177165.0	0.456632	Y
8	STD8260 240-482539/9	80.0	36.375966	20.0	1175011.0	0.4547	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

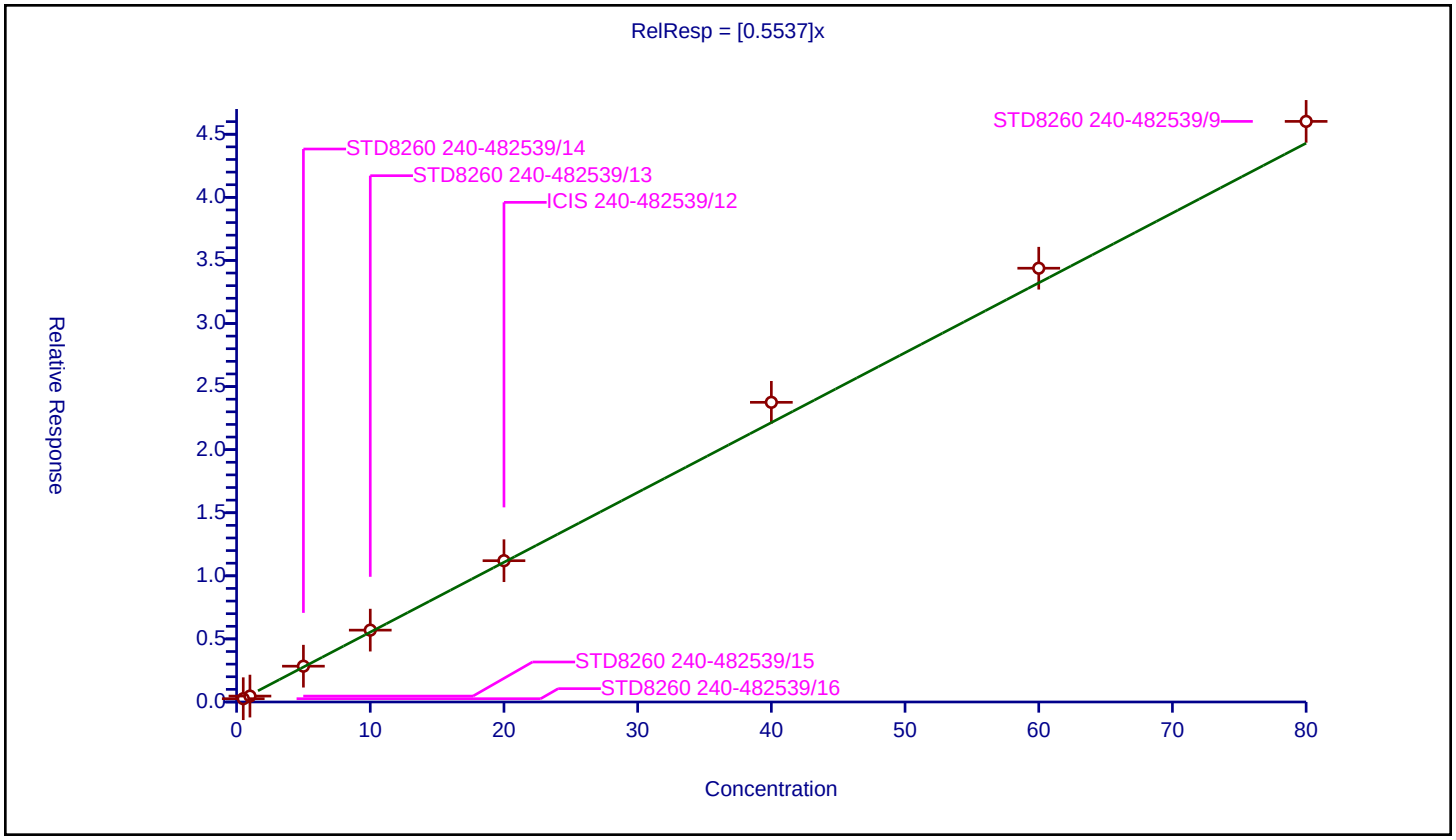
Curve Coefficients

Intercept:	0
Slope:	0.5537

Error Coefficients

Standard Error:	772000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.261153	20.0	526359.0	0.522305	Y
2	STD8260 240-482539/15	1.0	0.467734	20.0	537741.0	0.467734	Y
3	STD8260 240-482539/14	5.0	2.83768	20.0	561078.0	0.567536	Y
4	STD8260 240-482539/13	10.0	5.696087	20.0	595960.0	0.569609	Y
5	ICIS 240-482539/12	20.0	11.199918	20.0	621051.0	0.559996	Y
6	STD8260 240-482539/11	40.0	23.752068	20.0	635127.0	0.593802	Y
7	STD8260 240-482539/10	60.0	34.381186	20.0	633664.0	0.57302	Y
8	STD8260 240-482539/9	80.0	46.01931	20.0	653221.0	0.575241	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

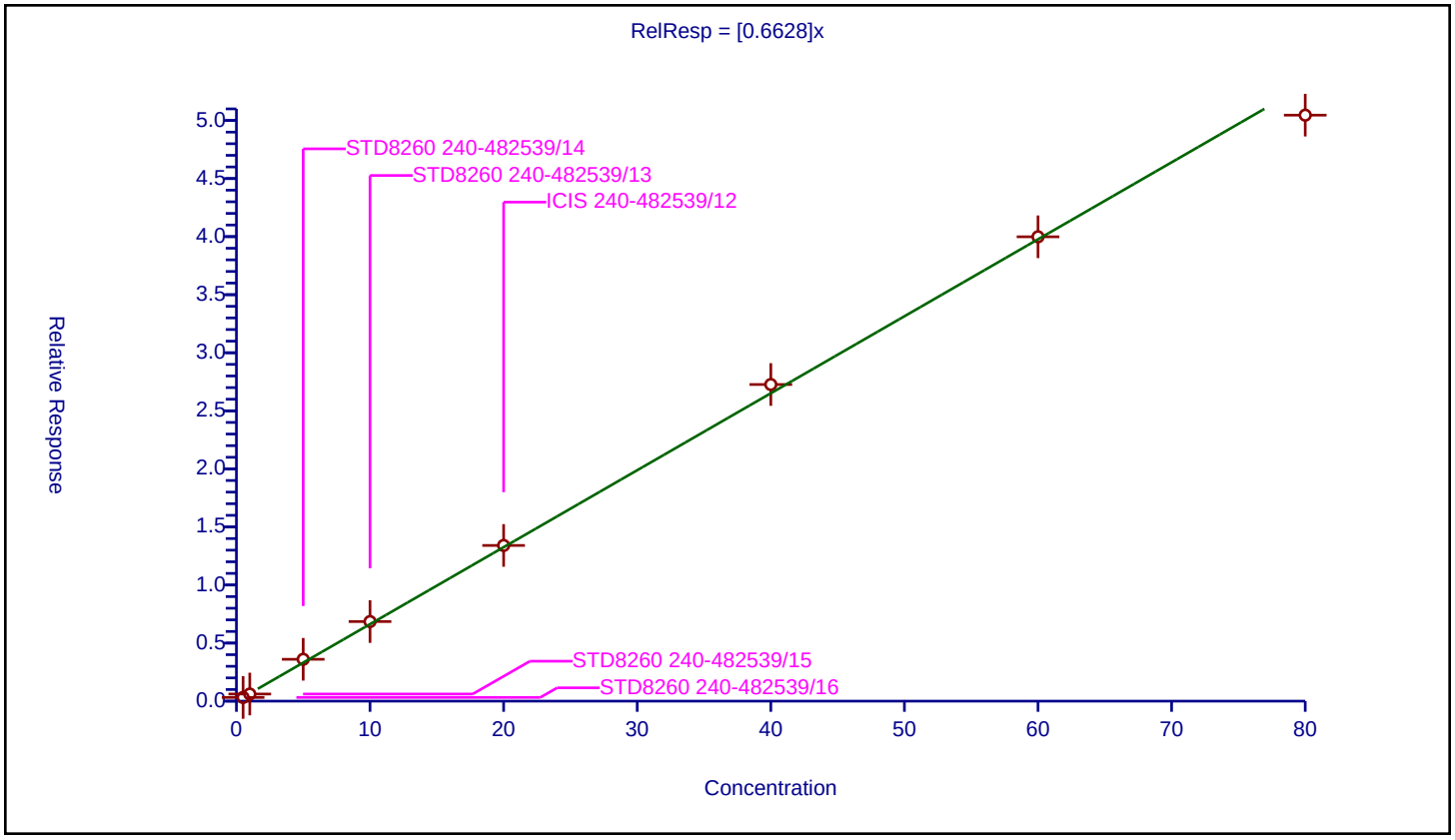
Curve Coefficients

Intercept:	0
Slope:	0.6628

Error Coefficients

Standard Error:	870000
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 240-482539/16	0.5	0.317312	20.0	526359.0	0.634624	Y
2	STD8260 240-482539/15	1.0	0.612563	20.0	537741.0	0.612563	Y
3	STD8260 240-482539/14	5.0	3.604169	20.0	561078.0	0.720834	Y
4	STD8260 240-482539/13	10.0	6.85348	20.0	595960.0	0.685348	Y
5	ICIS 240-482539/12	20.0	13.407627	20.0	621051.0	0.670381	Y
6	STD8260 240-482539/11	40.0	27.265948	20.0	635127.0	0.681649	Y
7	STD8260 240-482539/10	60.0	39.986018	20.0	633664.0	0.666434	Y
8	STD8260 240-482539/9	80.0	50.461237	20.0	653221.0	0.630765	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

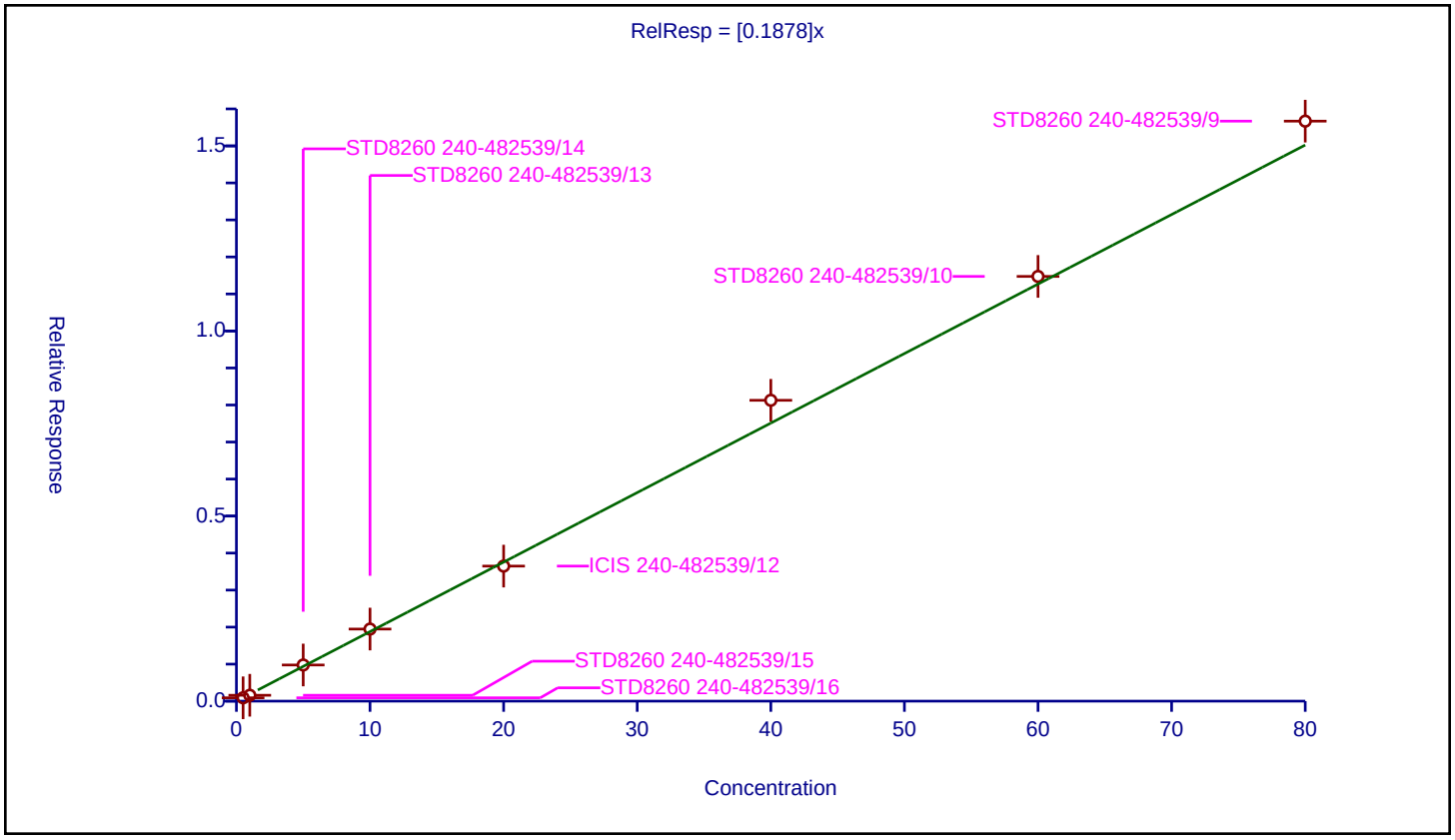
Curve Coefficients

Intercept:	0
Slope:	0.1878

Error Coefficients

Standard Error:	261000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.090357	20.0	526359.0	0.180713	Y
2	STD8260 240-482539/15	1.0	0.158775	20.0	537741.0	0.158775	Y
3	STD8260 240-482539/14	5.0	0.976976	20.0	561078.0	0.195395	Y
4	STD8260 240-482539/13	10.0	1.947748	20.0	595960.0	0.194775	Y
5	ICIS 240-482539/12	20.0	3.648557	20.0	621051.0	0.182428	Y
6	STD8260 240-482539/11	40.0	8.127319	20.0	635127.0	0.203183	Y
7	STD8260 240-482539/10	60.0	11.473778	20.0	633664.0	0.19123	Y
8	STD8260 240-482539/9	80.0	15.669306	20.0	653221.0	0.195866	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

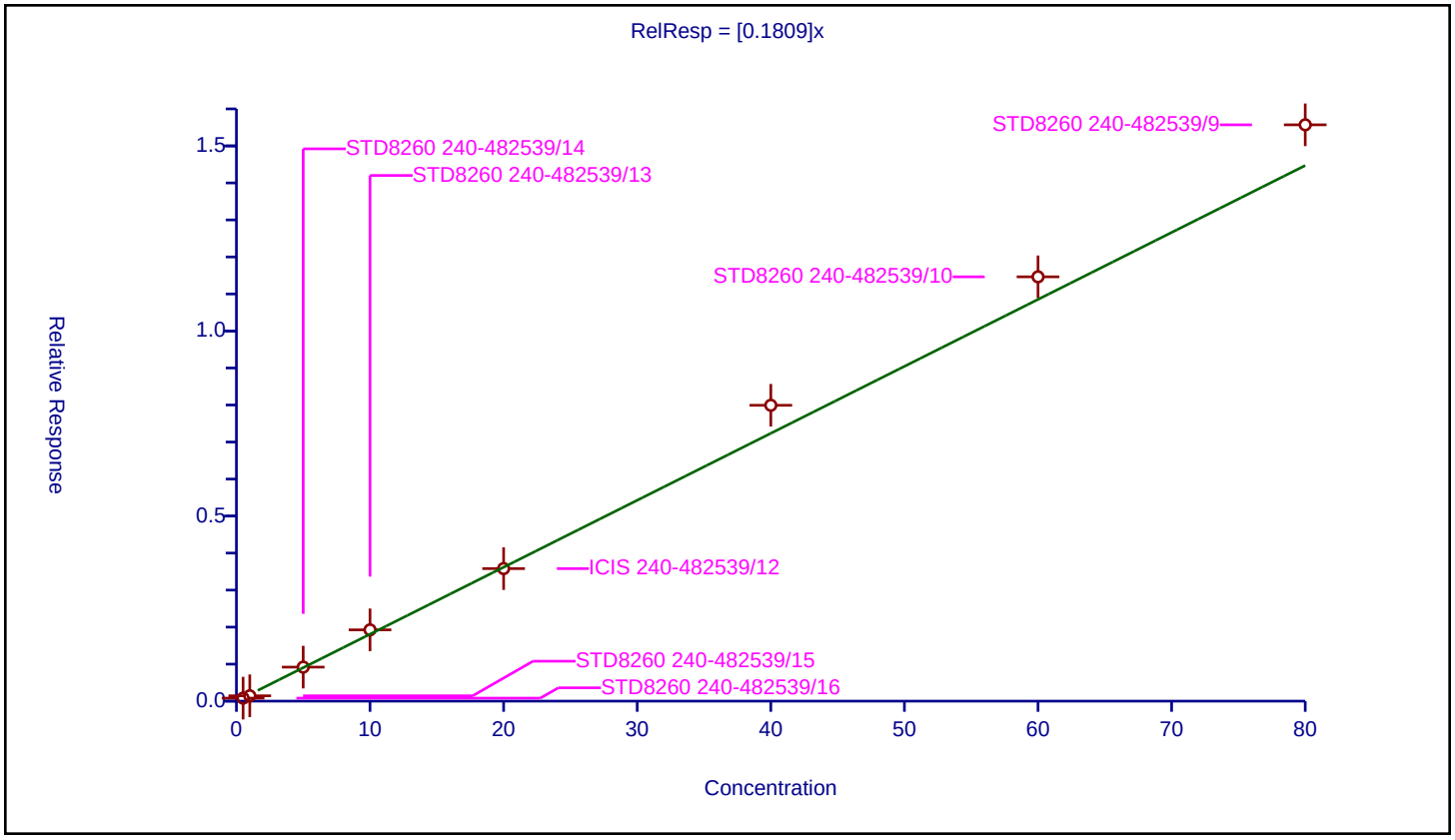
Curve Coefficients

Intercept:	0
Slope:	0.1809

Error Coefficients

Standard Error:	259000
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	STD8260 240-482539/16	0.5	0.080819	20.0	526359.0	0.161639	Y
2	STD8260 240-482539/15	1.0	0.144419	20.0	537741.0	0.144419	Y
3	STD8260 240-482539/14	5.0	0.919266	20.0	561078.0	0.183853	Y
4	STD8260 240-482539/13	10.0	1.925666	20.0	595960.0	0.192567	Y
5	ICIS 240-482539/12	20.0	3.581026	20.0	621051.0	0.179051	Y
6	STD8260 240-482539/11	40.0	7.993205	20.0	635127.0	0.19983	Y
7	STD8260 240-482539/10	60.0	11.463015	20.0	633664.0	0.19105	Y
8	STD8260 240-482539/9	80.0	15.569616	20.0	653221.0	0.19462	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

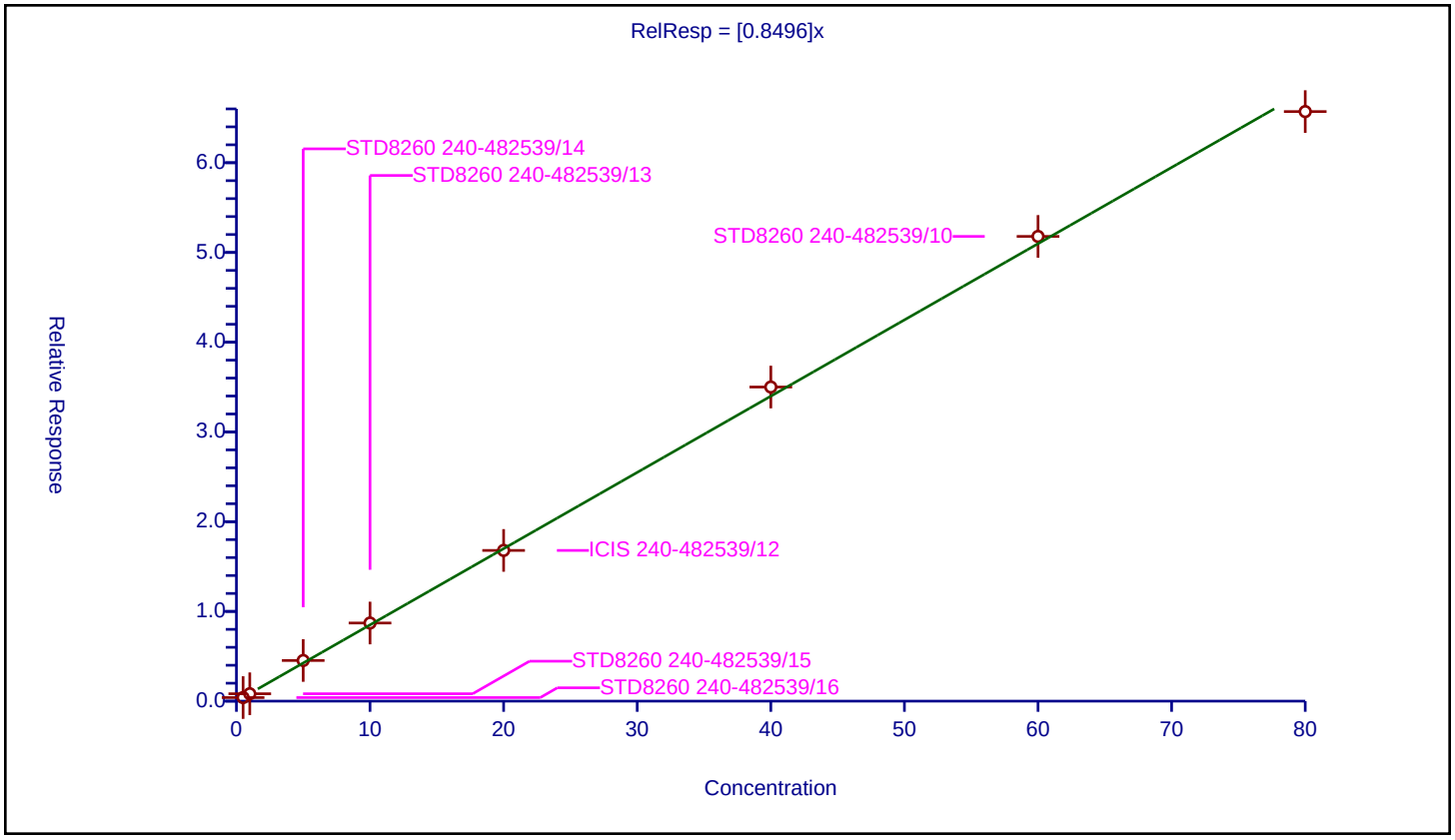
Curve Coefficients

Intercept:	0
Slope:	0.8496

Error Coefficients

Standard Error:	1130000
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 240-482539/16	0.5	0.399613	20.0	526359.0	0.799226	Y
2	STD8260 240-482539/15	1.0	0.82218	20.0	537741.0	0.82218	Y
3	STD8260 240-482539/14	5.0	4.530101	20.0	561078.0	0.90602	Y
4	STD8260 240-482539/13	10.0	8.705651	20.0	595960.0	0.870565	Y
5	ICIS 240-482539/12	20.0	16.793597	20.0	621051.0	0.83968	Y
6	STD8260 240-482539/11	40.0	35.00544	20.0	635127.0	0.875136	Y
7	STD8260 240-482539/10	60.0	51.787319	20.0	633664.0	0.863122	Y
8	STD8260 240-482539/9	80.0	65.699296	20.0	653221.0	0.821241	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

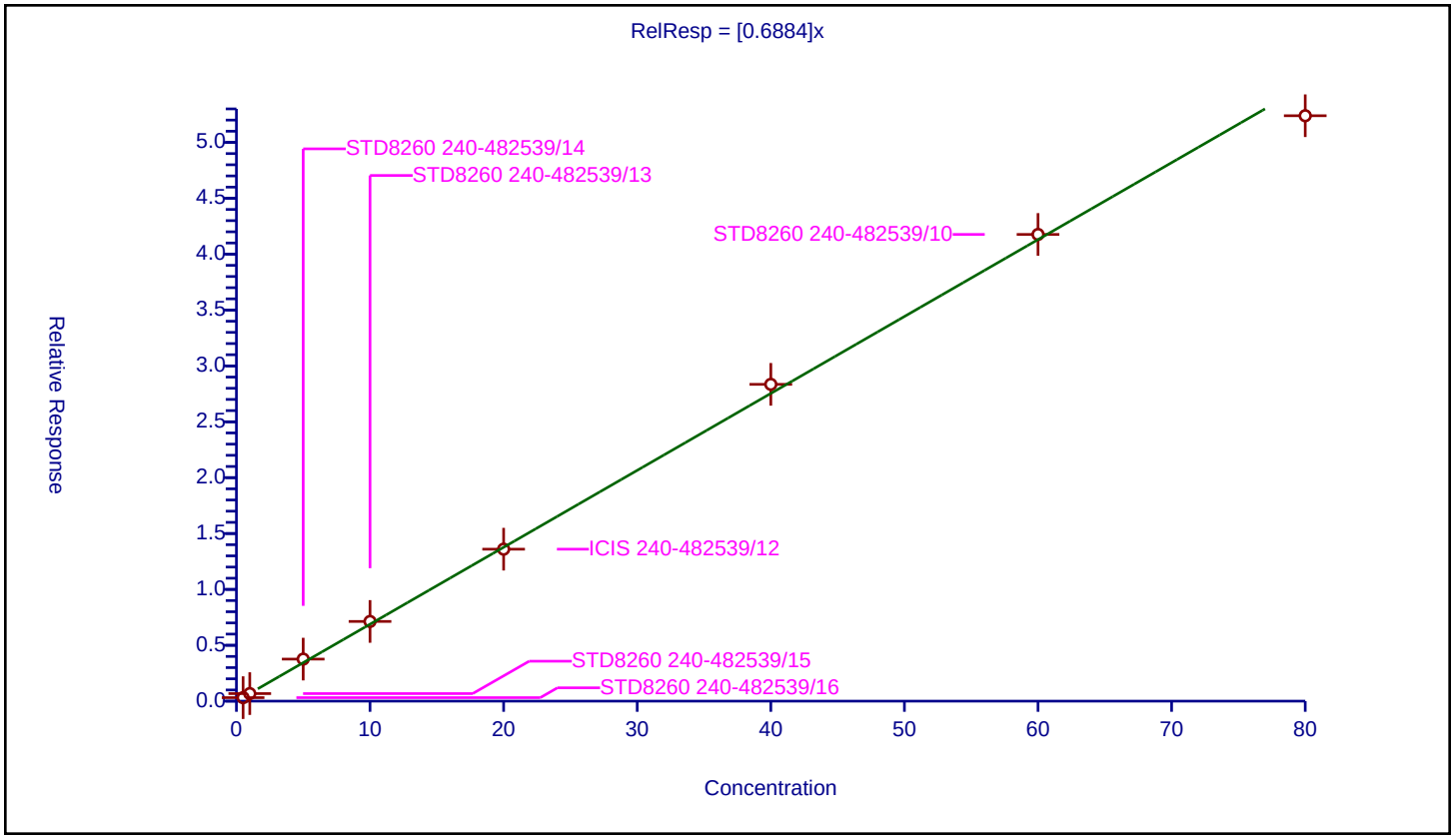
Curve Coefficients

Intercept:	0
Slope:	0.6884

Error Coefficients

Standard Error:	904000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.31317	20.0	526359.0	0.626341	Y
2	STD8260 240-482539/15	1.0	0.675492	20.0	537741.0	0.675492	Y
3	STD8260 240-482539/14	5.0	3.763078	20.0	561078.0	0.752616	Y
4	STD8260 240-482539/13	10.0	7.132391	20.0	595960.0	0.713239	Y
5	ICIS 240-482539/12	20.0	13.599946	20.0	621051.0	0.679997	Y
6	STD8260 240-482539/11	40.0	28.350645	20.0	635127.0	0.708766	Y
7	STD8260 240-482539/10	60.0	41.763206	20.0	633664.0	0.696053	Y
8	STD8260 240-482539/9	80.0	52.387079	20.0	653221.0	0.654838	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

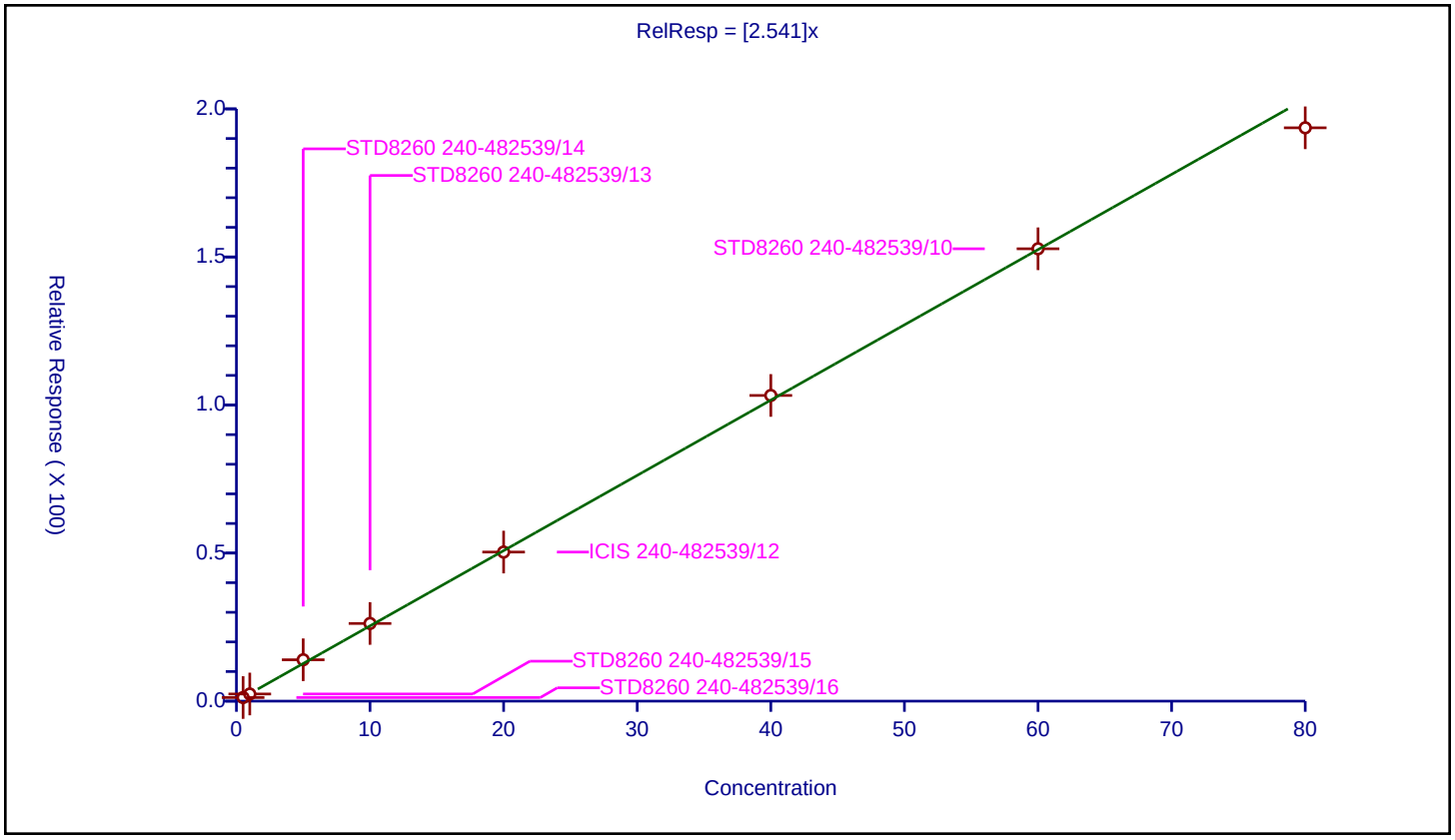
Curve Coefficients

Intercept:	0
Slope:	2.541

Error Coefficients

Standard Error:	3320000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	1.218408	20.0	526359.0	2.436816	Y
2	STD8260 240-482539/15	1.0	2.412425	20.0	537741.0	2.412425	Y
3	STD8260 240-482539/14	5.0	13.96861	20.0	561078.0	2.793722	Y
4	STD8260 240-482539/13	10.0	26.233908	20.0	595960.0	2.623391	Y
5	ICIS 240-482539/12	20.0	50.341405	20.0	621051.0	2.51707	Y
6	STD8260 240-482539/11	40.0	103.228961	20.0	635127.0	2.580724	Y
7	STD8260 240-482539/10	60.0	152.764241	20.0	633664.0	2.546071	Y
8	STD8260 240-482539/9	80.0	193.611626	20.0	653221.0	2.420145	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

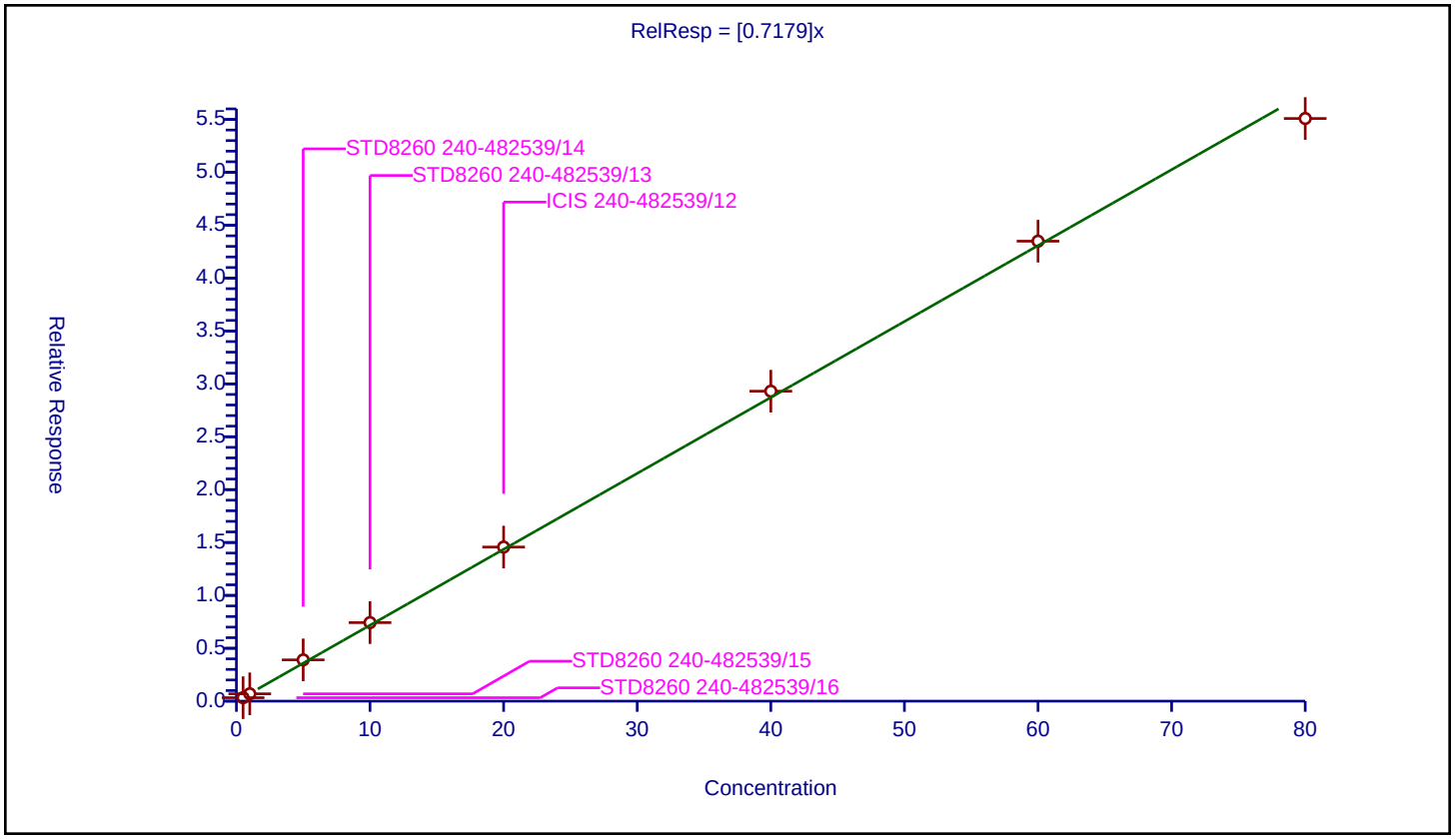
Curve Coefficients

Intercept:	0
Slope:	0.7179

Error Coefficients

Standard Error:	946000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.325291	20.0	526359.0	0.650583	Y
2	STD8260 240-482539/15	1.0	0.694944	20.0	537741.0	0.694944	Y
3	STD8260 240-482539/14	5.0	3.901632	20.0	561078.0	0.780326	Y
4	STD8260 240-482539/13	10.0	7.4257	20.0	595960.0	0.74257	Y
5	ICIS 240-482539/12	20.0	14.570011	20.0	621051.0	0.728501	Y
6	STD8260 240-482539/11	40.0	29.307398	20.0	635127.0	0.732685	Y
7	STD8260 240-482539/10	60.0	43.490399	20.0	633664.0	0.72484	Y
8	STD8260 240-482539/9	80.0	55.089839	20.0	653221.0	0.688623	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

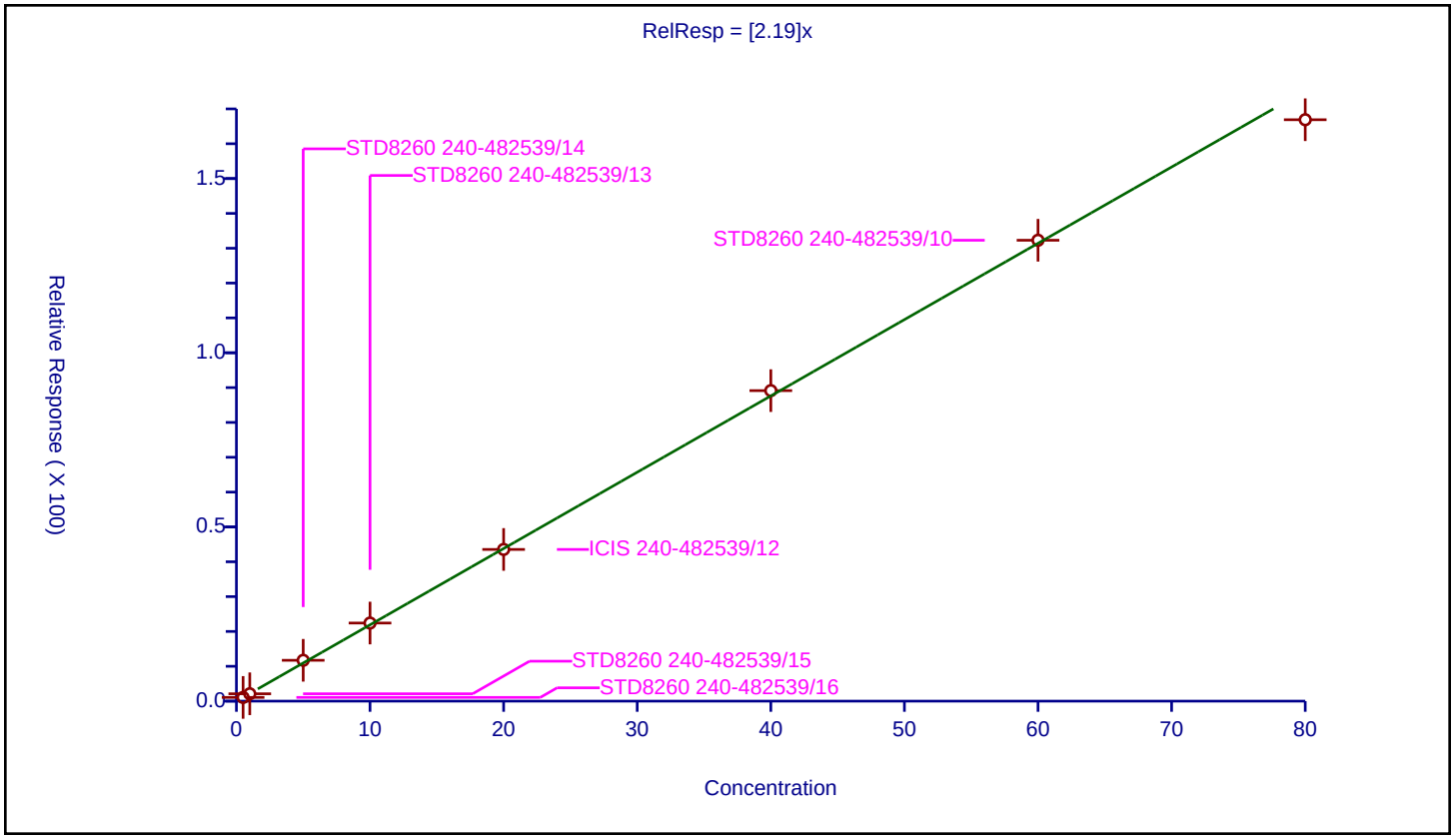
Curve Coefficients

Intercept:	0
Slope:	2.19

Error Coefficients

Standard Error:	2870000
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 240-482539/16	0.5	1.063571	20.0	526359.0	2.127141	Y
2	STD8260 240-482539/15	1.0	2.110719	20.0	537741.0	2.110719	Y
3	STD8260 240-482539/14	5.0	11.726783	20.0	561078.0	2.345357	Y
4	STD8260 240-482539/13	10.0	22.421706	20.0	595960.0	2.242171	Y
5	ICIS 240-482539/12	20.0	43.542994	20.0	621051.0	2.17715	Y
6	STD8260 240-482539/11	40.0	89.126458	20.0	635127.0	2.228161	Y
7	STD8260 240-482539/10	60.0	132.297243	20.0	633664.0	2.204954	Y
8	STD8260 240-482539/9	80.0	166.886031	20.0	653221.0	2.086075	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

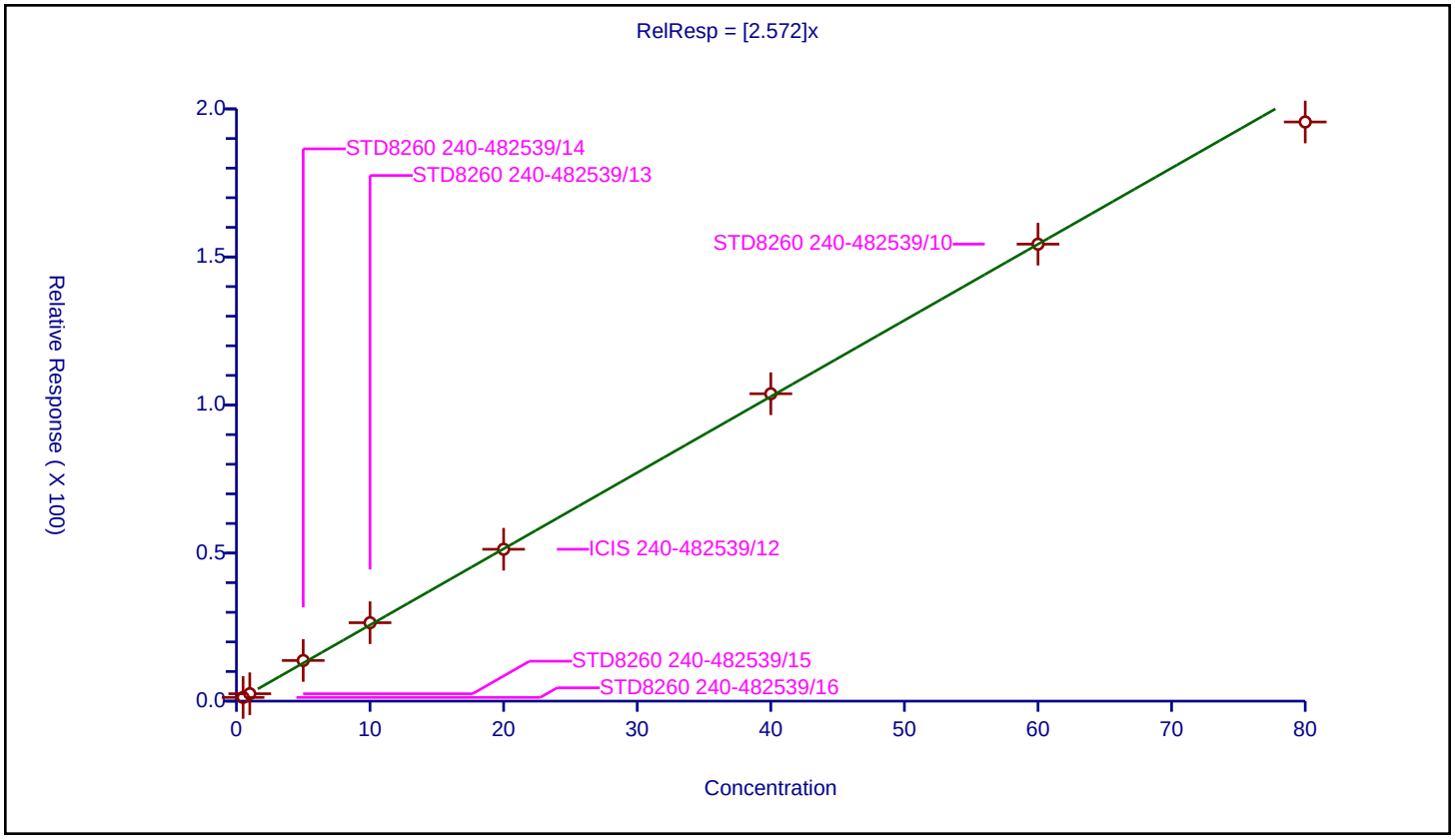
Curve Coefficients

Intercept:	0
Slope:	2.572

Error Coefficients

Standard Error:	3360000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	1.250439	20.0	526359.0	2.500879	Y
2	STD8260 240-482539/15	1.0	2.501836	20.0	537741.0	2.501836	Y
3	STD8260 240-482539/14	5.0	13.733385	20.0	561078.0	2.746677	Y
4	STD8260 240-482539/13	10.0	26.482482	20.0	595960.0	2.648248	Y
5	ICIS 240-482539/12	20.0	51.292084	20.0	621051.0	2.564604	Y
6	STD8260 240-482539/11	40.0	103.804404	20.0	635127.0	2.59511	Y
7	STD8260 240-482539/10	60.0	154.330876	20.0	633664.0	2.572181	Y
8	STD8260 240-482539/9	80.0	195.583792	20.0	653221.0	2.444797	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

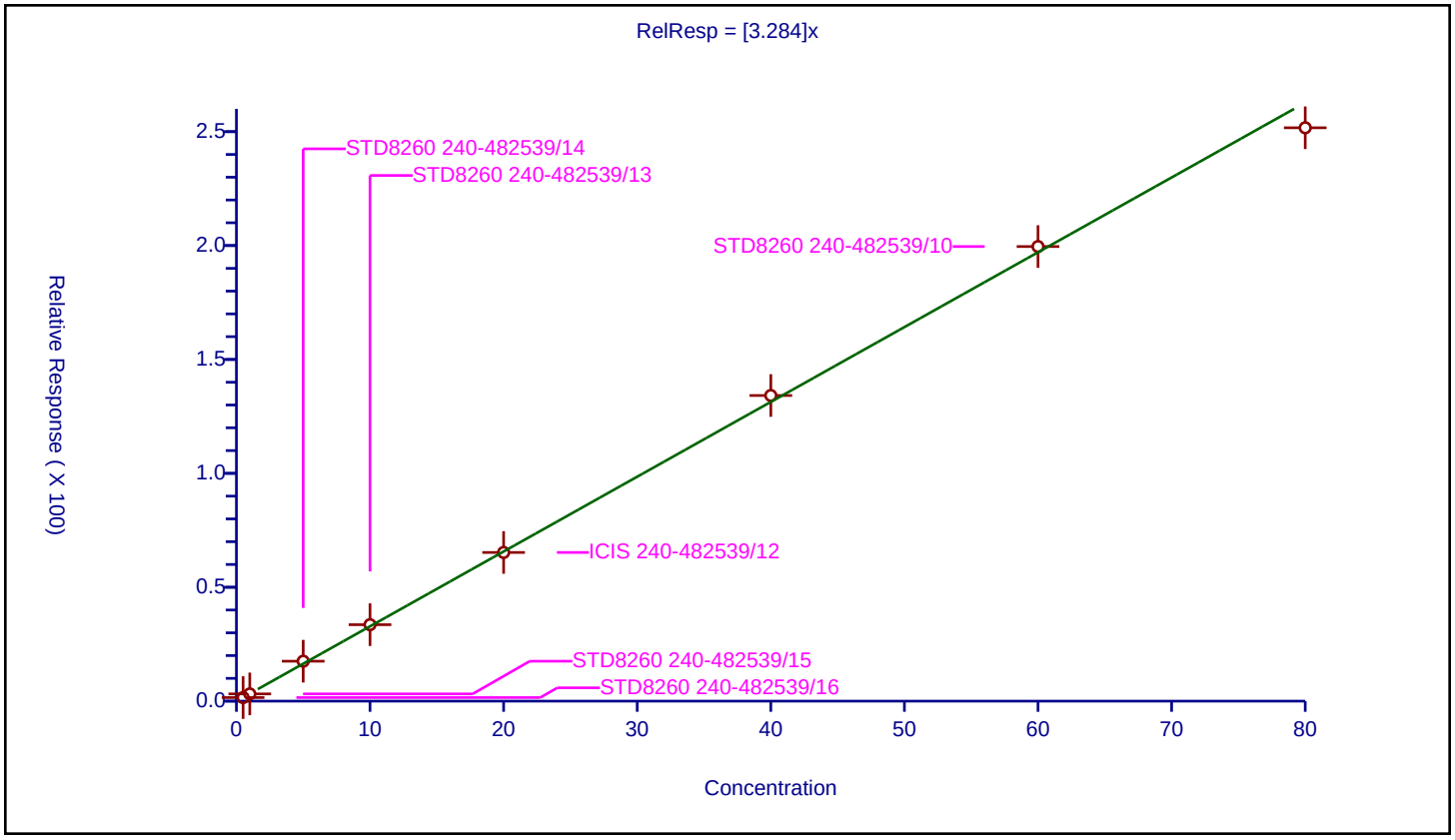
Curve Coefficients

Intercept:	0
Slope:	3.284

Error Coefficients

Standard Error:	4330000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	1.571323	20.0	526359.0	3.142646	Y
2	STD8260 240-482539/15	1.0	3.176511	20.0	537741.0	3.176511	Y
3	STD8260 240-482539/14	5.0	17.535138	20.0	561078.0	3.507028	Y
4	STD8260 240-482539/13	10.0	33.559635	20.0	595960.0	3.355963	Y
5	ICIS 240-482539/12	20.0	65.272417	20.0	621051.0	3.263621	Y
6	STD8260 240-482539/11	40.0	134.177763	20.0	635127.0	3.354444	Y
7	STD8260 240-482539/10	60.0	199.570435	20.0	633664.0	3.326174	Y
8	STD8260 240-482539/9	80.0	251.714259	20.0	653221.0	3.146428	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

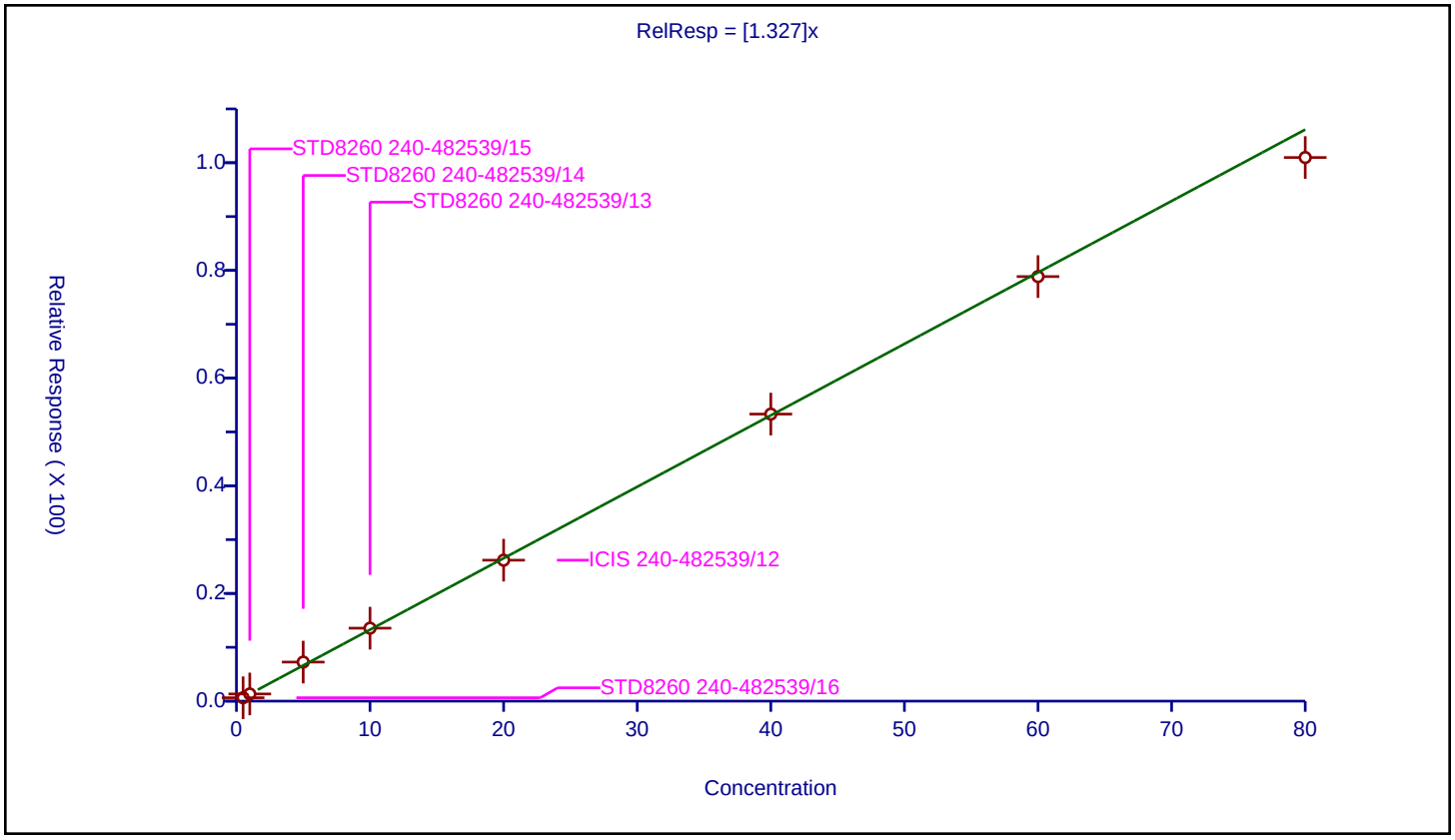
Curve Coefficients

Intercept:	0
Slope:	1.327

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.629836	20.0	526359.0	1.259673	Y
2	STD8260 240-482539/15	1.0	1.331756	20.0	537741.0	1.331756	Y
3	STD8260 240-482539/14	5.0	7.254072	20.0	561078.0	1.450814	Y
4	STD8260 240-482539/13	10.0	13.550272	20.0	595960.0	1.355027	Y
5	ICIS 240-482539/12	20.0	26.181618	20.0	621051.0	1.309081	Y
6	STD8260 240-482539/11	40.0	53.312298	20.0	635127.0	1.332807	Y
7	STD8260 240-482539/10	60.0	78.855797	20.0	633664.0	1.314263	Y
8	STD8260 240-482539/9	80.0	100.966442	20.0	653221.0	1.262081	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

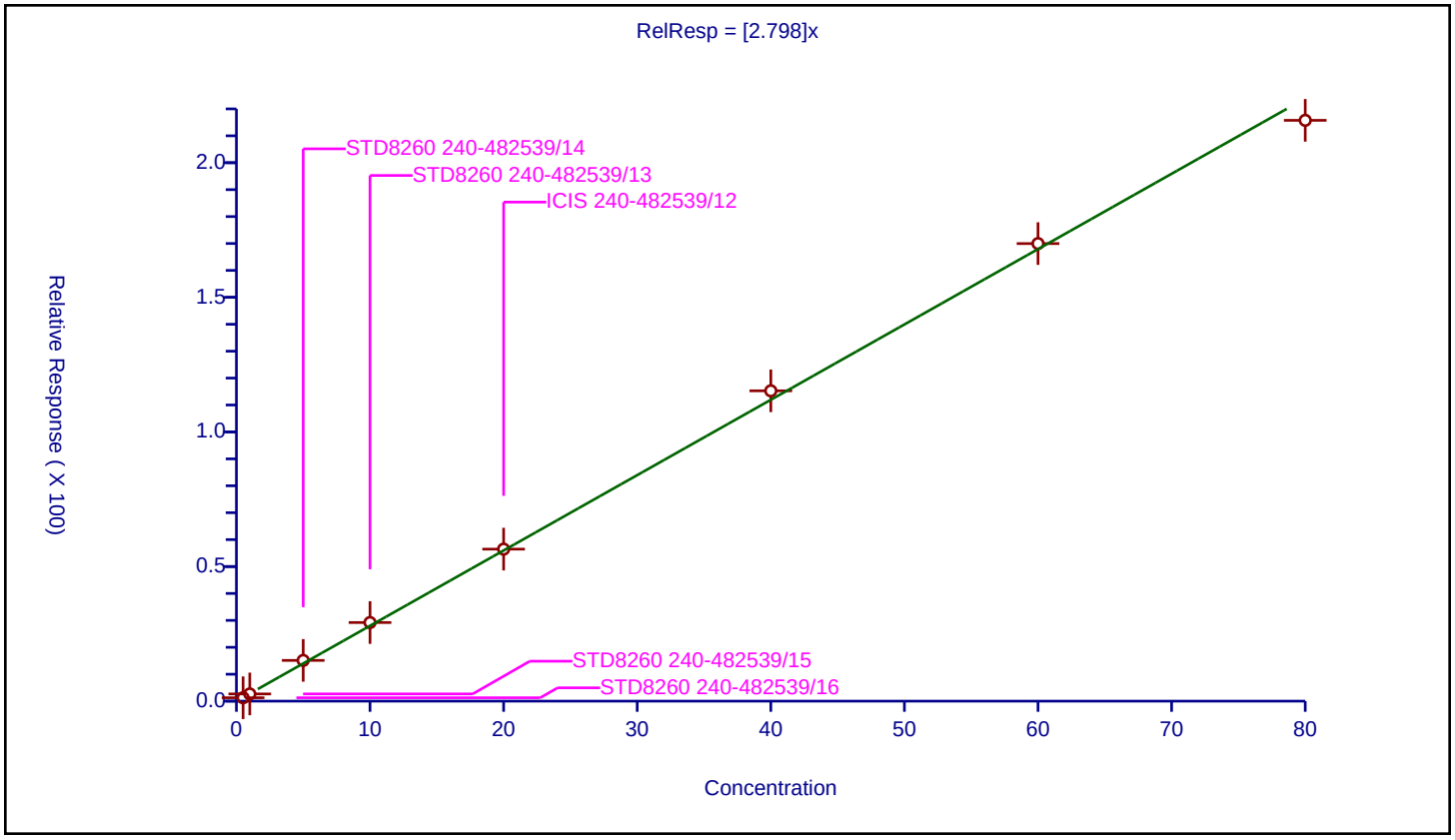
Curve Coefficients

Intercept:	0
Slope:	2.798

Error Coefficients

Standard Error:	3700000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	1.26541	20.0	526359.0	2.53082	Y
2	STD8260 240-482539/15	1.0	2.674522	20.0	537741.0	2.674522	Y
3	STD8260 240-482539/14	5.0	15.137111	20.0	561078.0	3.027422	Y
4	STD8260 240-482539/13	10.0	29.204242	20.0	595960.0	2.920424	Y
5	ICIS 240-482539/12	20.0	56.46802	20.0	621051.0	2.823401	Y
6	STD8260 240-482539/11	40.0	115.272221	20.0	635127.0	2.881806	Y
7	STD8260 240-482539/10	60.0	169.964492	20.0	633664.0	2.832742	Y
8	STD8260 240-482539/9	80.0	215.741992	20.0	653221.0	2.696775	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

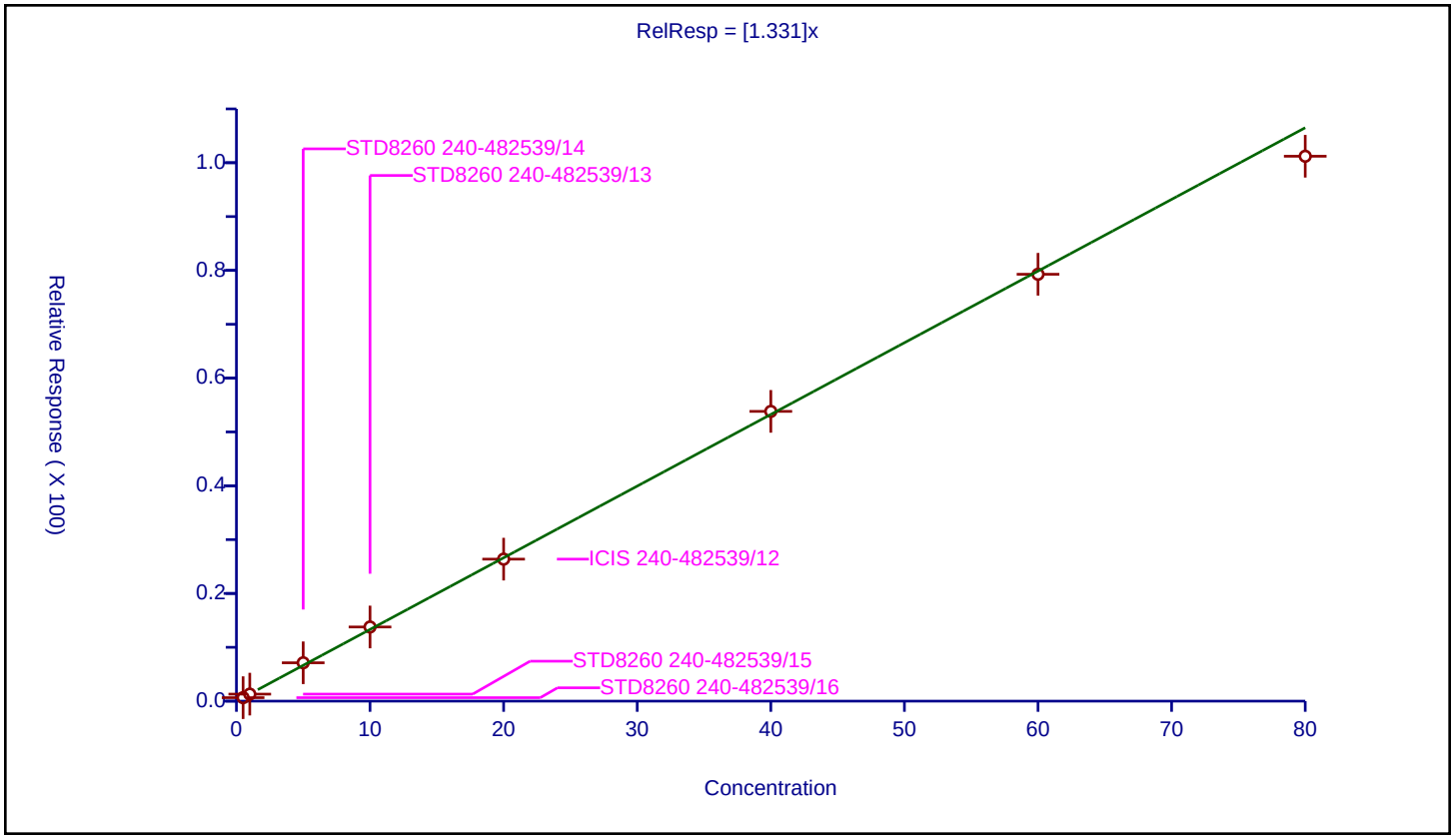
Curve Coefficients

Intercept:	0
Slope:	1.331

Error Coefficients

Standard Error:	1730000
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 240-482539/16	0.5	0.645871	20.0	526359.0	1.291742	Y
2	STD8260 240-482539/15	1.0	1.305387	20.0	537741.0	1.305387	Y
3	STD8260 240-482539/14	5.0	7.125533	20.0	561078.0	1.425107	Y
4	STD8260 240-482539/13	10.0	13.774213	20.0	595960.0	1.377421	Y
5	ICIS 240-482539/12	20.0	26.372488	20.0	621051.0	1.318624	Y
6	STD8260 240-482539/11	40.0	53.818874	20.0	635127.0	1.345472	Y
7	STD8260 240-482539/10	60.0	79.286878	20.0	633664.0	1.321448	Y
8	STD8260 240-482539/9	80.0	101.206697	20.0	653221.0	1.265084	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

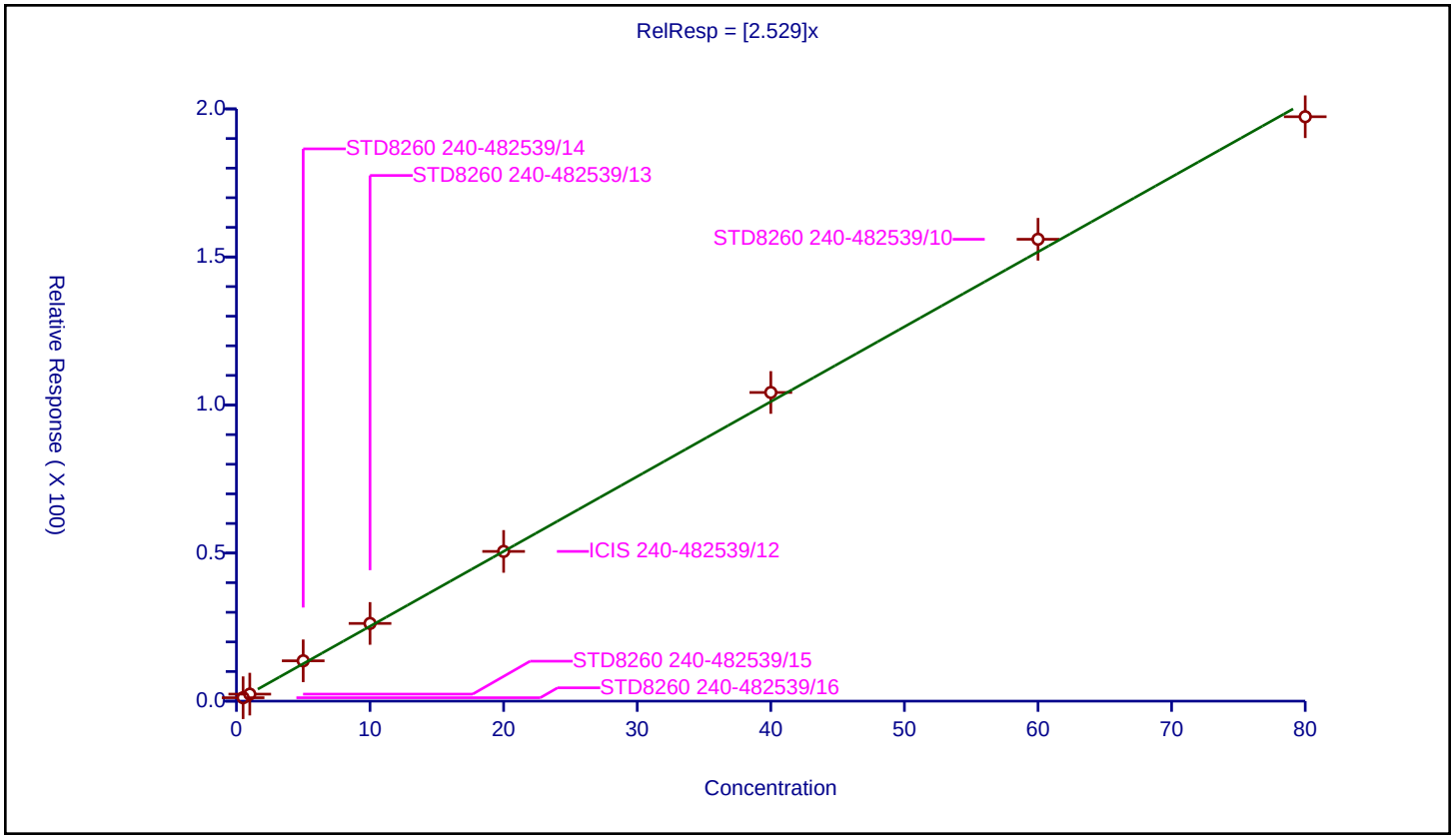
Curve Coefficients

Intercept:	0
Slope:	2.529

Error Coefficients

Standard Error:	3380000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	1.153471	20.0	526359.0	2.306943	Y
2	STD8260 240-482539/15	1.0	2.373076	20.0	537741.0	2.373076	Y
3	STD8260 240-482539/14	5.0	13.622776	20.0	561078.0	2.724555	Y
4	STD8260 240-482539/13	10.0	26.242197	20.0	595960.0	2.62422	Y
5	ICIS 240-482539/12	20.0	50.557362	20.0	621051.0	2.527868	Y
6	STD8260 240-482539/11	40.0	104.240695	20.0	635127.0	2.606017	Y
7	STD8260 240-482539/10	60.0	155.976985	20.0	633664.0	2.599616	Y
8	STD8260 240-482539/9	80.0	197.352167	20.0	653221.0	2.466902	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

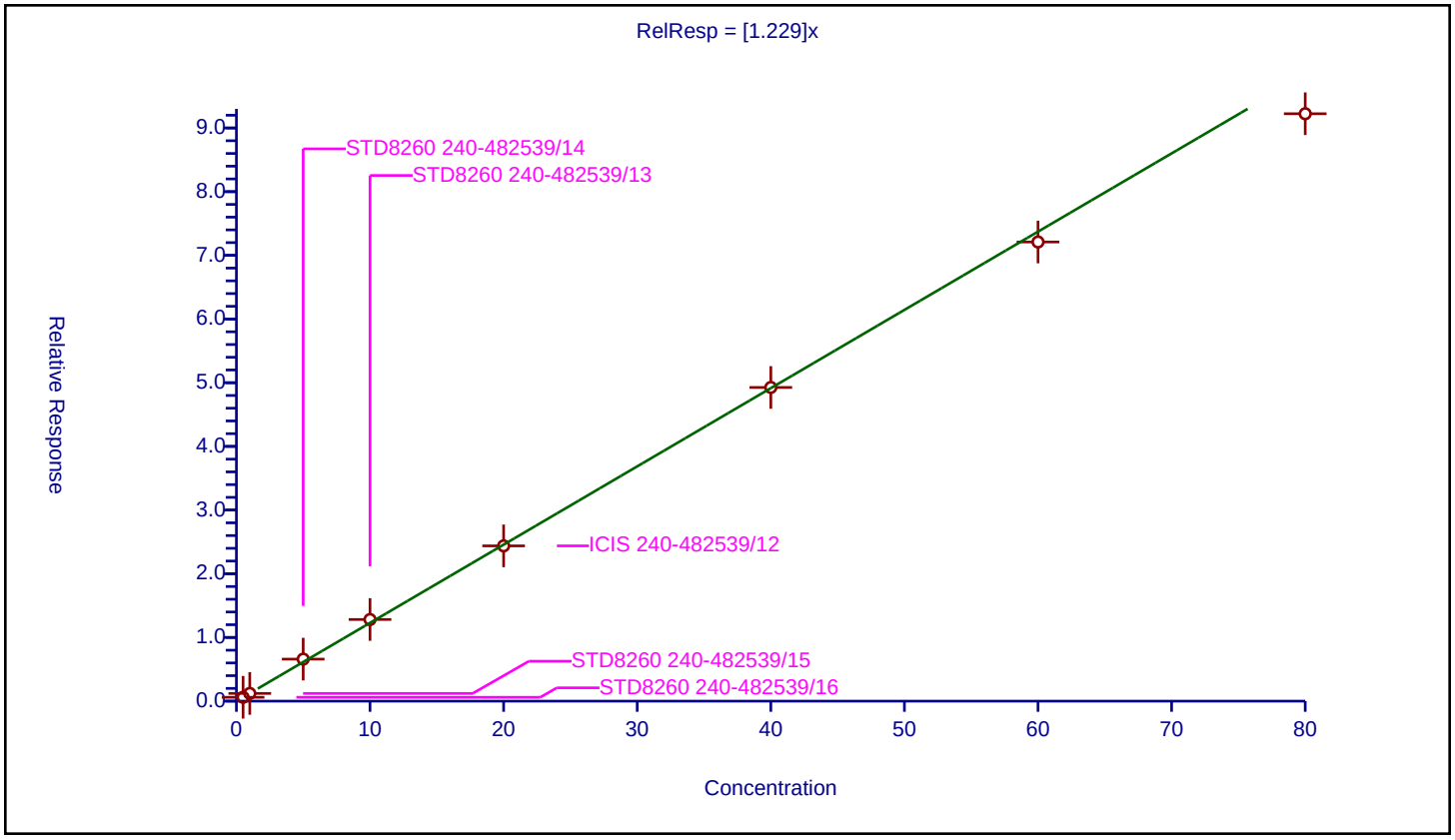
Curve Coefficients

Intercept:	0
Slope:	1.229

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.60624	20.0	526359.0	1.21248	Y
2	STD8260 240-482539/15	1.0	1.210657	20.0	537741.0	1.210657	Y
3	STD8260 240-482539/14	5.0	6.598049	20.0	561078.0	1.31961	Y
4	STD8260 240-482539/13	10.0	12.81878	20.0	595960.0	1.281878	Y
5	ICIS 240-482539/12	20.0	24.379383	20.0	621051.0	1.218969	Y
6	STD8260 240-482539/11	40.0	49.257487	20.0	635127.0	1.231437	Y
7	STD8260 240-482539/10	60.0	72.099188	20.0	633664.0	1.201653	Y
8	STD8260 240-482539/9	80.0	92.23788	20.0	653221.0	1.152973	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

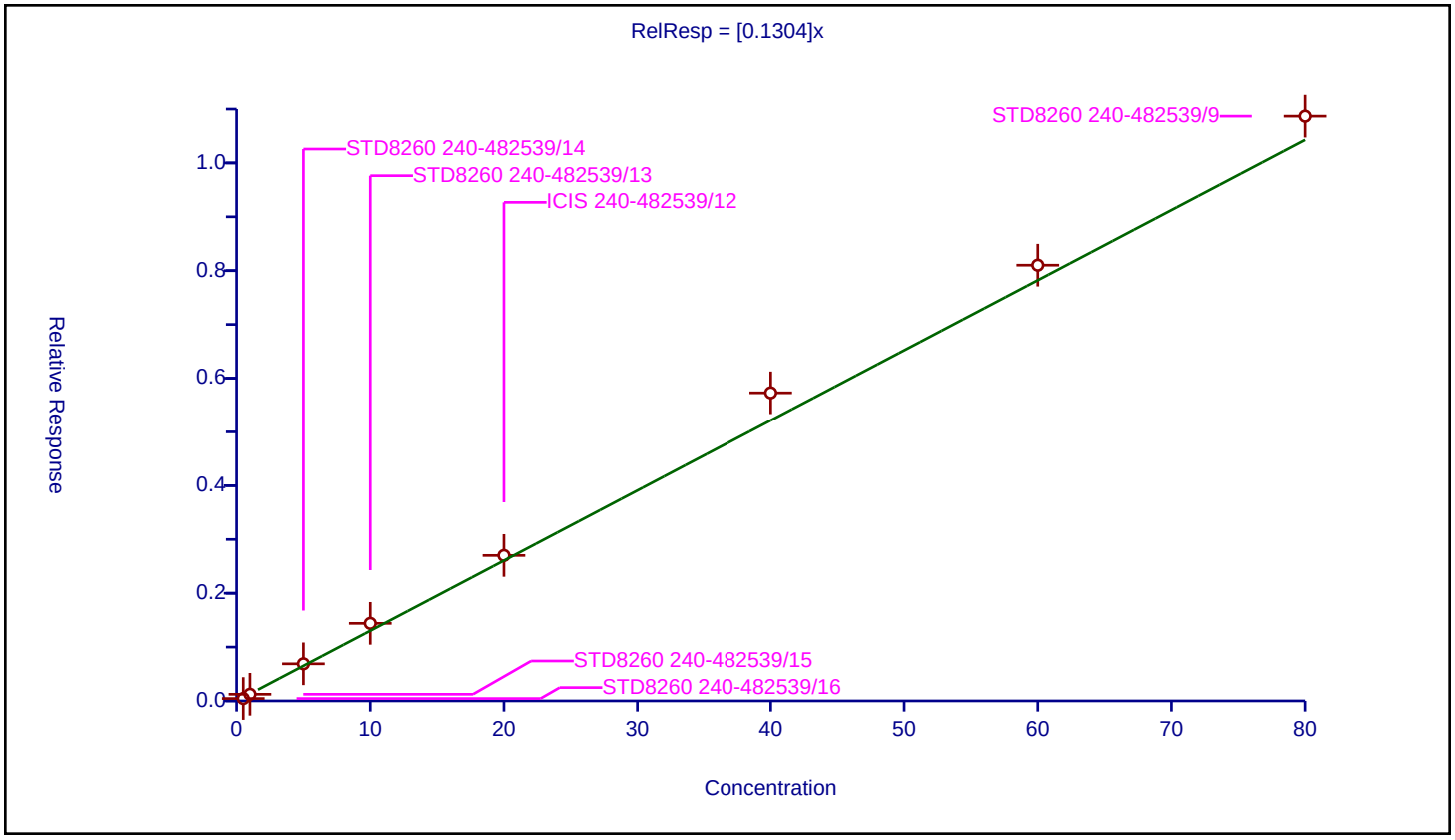
Curve Coefficients

Intercept:	0
Slope:	0.1304

Error Coefficients

Standard Error:	183000
Relative Standard Error:	13.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.044152	20.0	526359.0	0.088305	Y
2	STD8260 240-482539/15	1.0	0.123368	20.0	537741.0	0.123368	Y
3	STD8260 240-482539/14	5.0	0.689494	20.0	561078.0	0.137899	Y
4	STD8260 240-482539/13	10.0	1.440768	20.0	595960.0	0.144077	Y
5	ICIS 240-482539/12	20.0	2.702129	20.0	621051.0	0.135106	Y
6	STD8260 240-482539/11	40.0	5.728146	20.0	635127.0	0.143204	Y
7	STD8260 240-482539/10	60.0	8.10237	20.0	633664.0	0.135039	Y
8	STD8260 240-482539/9	80.0	10.868205	20.0	653221.0	0.135853	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

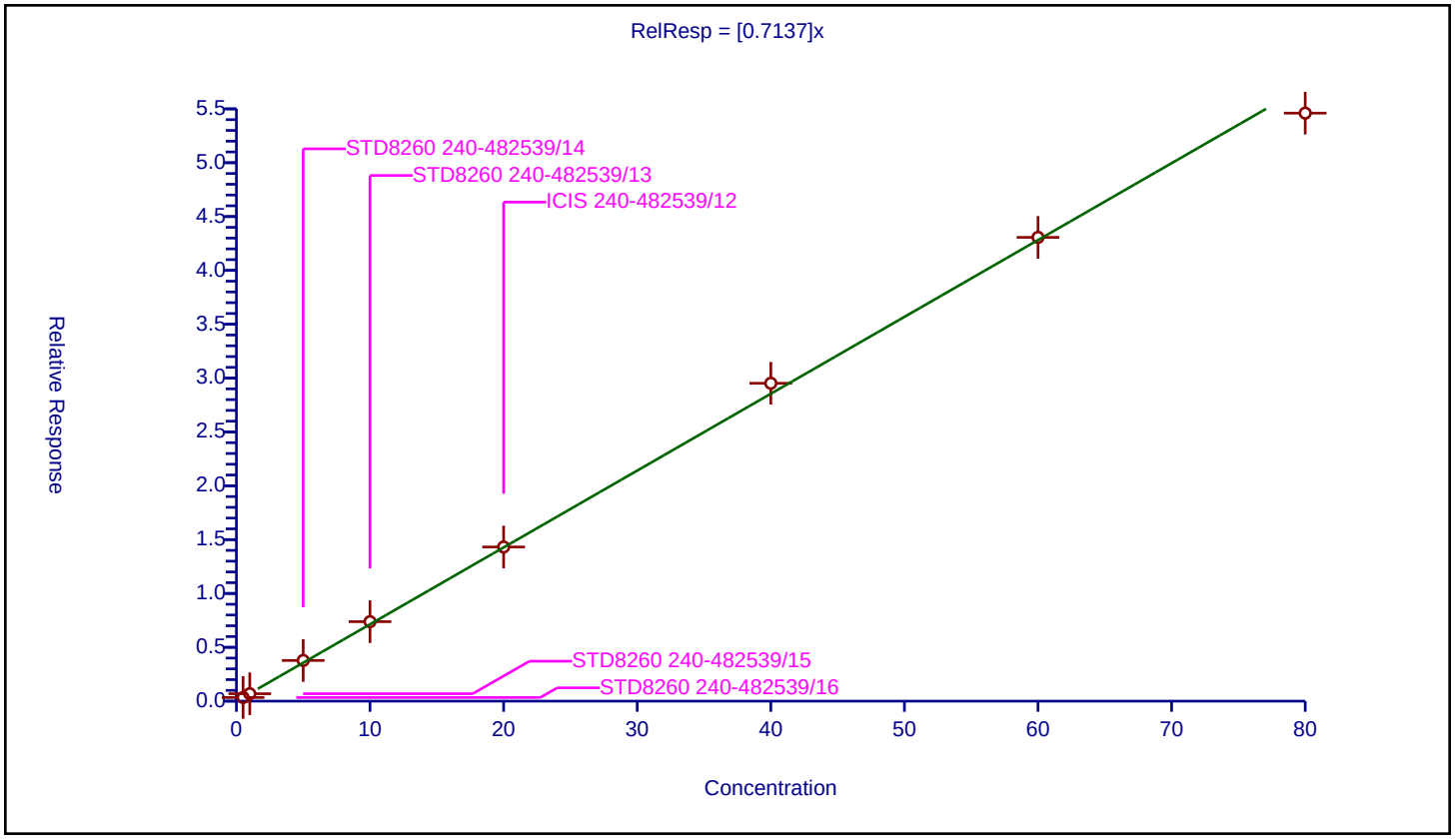
Curve Coefficients

Intercept:	0
Slope:	0.7137

Error Coefficients

Standard Error:	940000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.336918	20.0	526359.0	0.673837	Y
2	STD8260 240-482539/15	1.0	0.687803	20.0	537741.0	0.687803	Y
3	STD8260 240-482539/14	5.0	3.778049	20.0	561078.0	0.75561	Y
4	STD8260 240-482539/13	10.0	7.38073	20.0	595960.0	0.738073	Y
5	ICIS 240-482539/12	20.0	14.3138	20.0	621051.0	0.71569	Y
6	STD8260 240-482539/11	40.0	29.519576	20.0	635127.0	0.737989	Y
7	STD8260 240-482539/10	60.0	43.069166	20.0	633664.0	0.717819	Y
8	STD8260 240-482539/9	80.0	54.606022	20.0	653221.0	0.682575	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

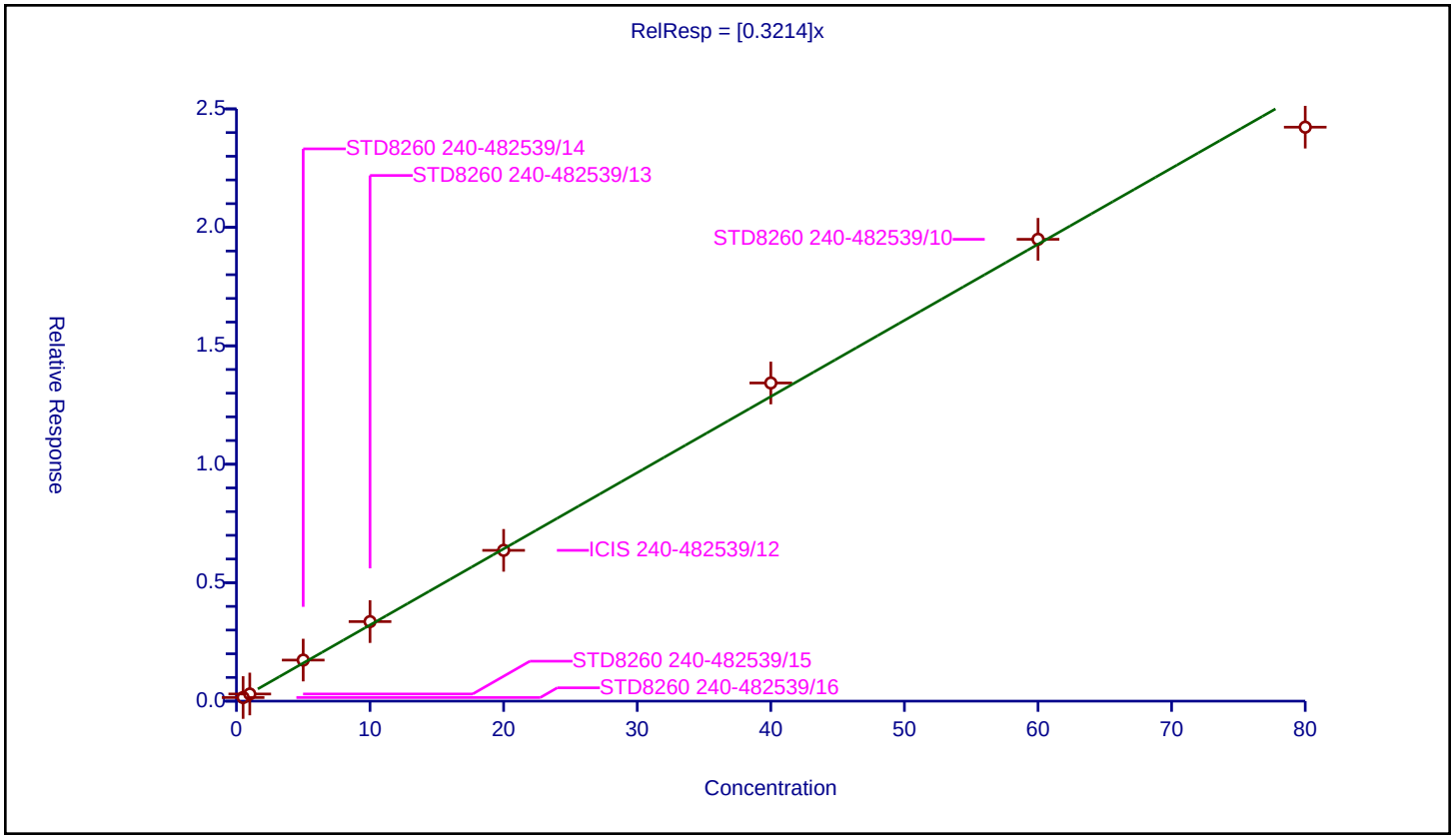
Curve Coefficients

Intercept:	0
Slope:	0.3214

Error Coefficients

Standard Error:	421000
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 240-482539/16	0.5	0.152595	20.0	526359.0	0.305191	Y
2	STD8260 240-482539/15	1.0	0.302227	20.0	537741.0	0.302227	Y
3	STD8260 240-482539/14	5.0	1.732593	20.0	561078.0	0.346519	Y
4	STD8260 240-482539/13	10.0	3.357608	20.0	595960.0	0.335761	Y
5	ICIS 240-482539/12	20.0	6.365532	20.0	621051.0	0.318277	Y
6	STD8260 240-482539/11	40.0	13.430448	20.0	635127.0	0.335761	Y
7	STD8260 240-482539/10	60.0	19.49519	20.0	633664.0	0.32492	Y
8	STD8260 240-482539/9	80.0	24.228554	20.0	653221.0	0.302857	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

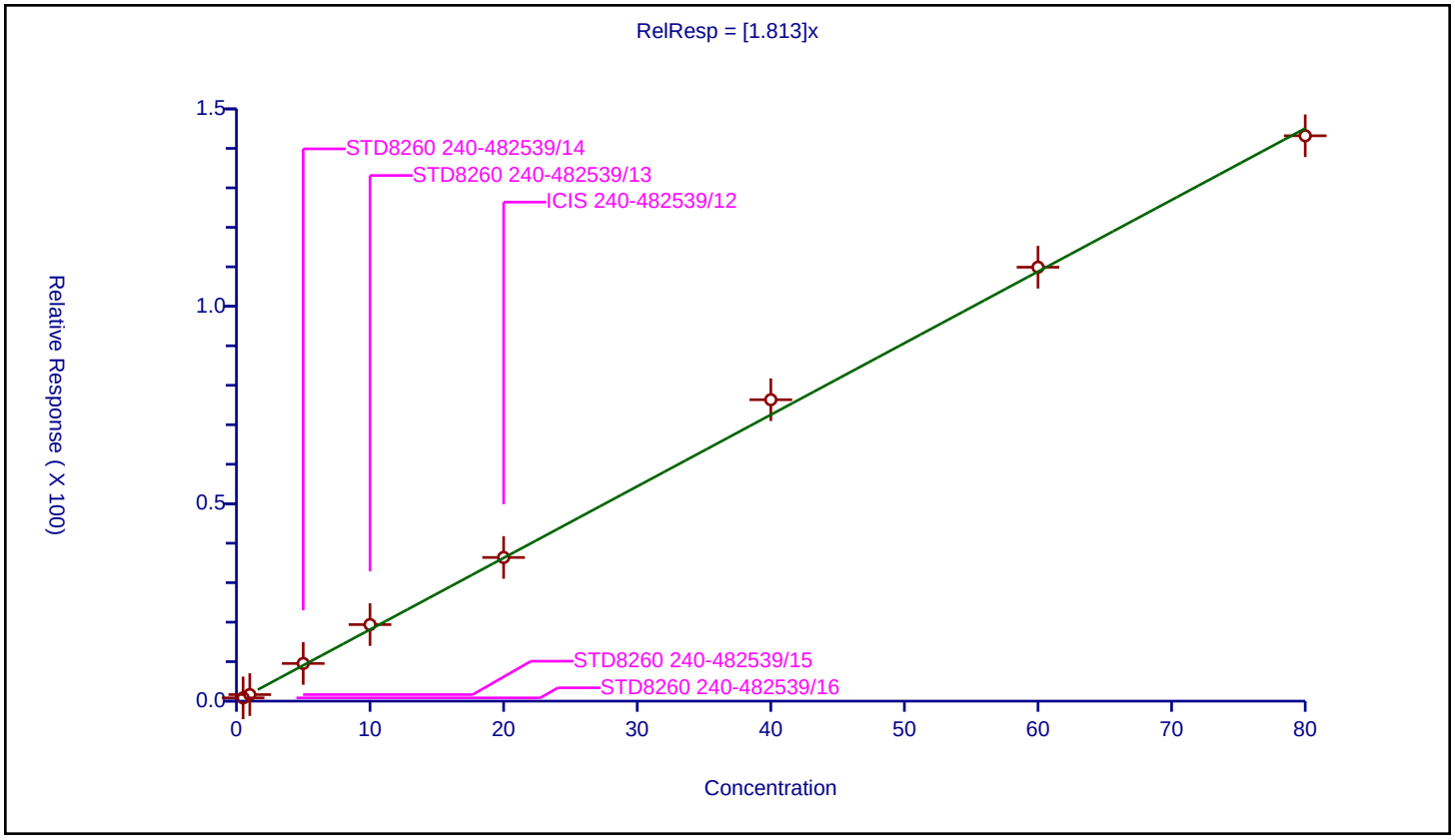
Curve Coefficients

Intercept:	0
Slope:	1.813

Error Coefficients

Standard Error:	2440000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.826014	20.0	526359.0	1.652028	Y
2	STD8260 240-482539/15	1.0	1.657117	20.0	537741.0	1.657117	Y
3	STD8260 240-482539/14	5.0	9.53985	20.0	561078.0	1.90797	Y
4	STD8260 240-482539/13	10.0	19.391939	20.0	595960.0	1.939194	Y
5	ICIS 240-482539/12	20.0	36.38764	20.0	621051.0	1.819382	Y
6	STD8260 240-482539/11	40.0	76.346306	20.0	635127.0	1.908658	Y
7	STD8260 240-482539/10	60.0	109.904176	20.0	633664.0	1.831736	Y
8	STD8260 240-482539/9	80.0	143.195213	20.0	653221.0	1.78994	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

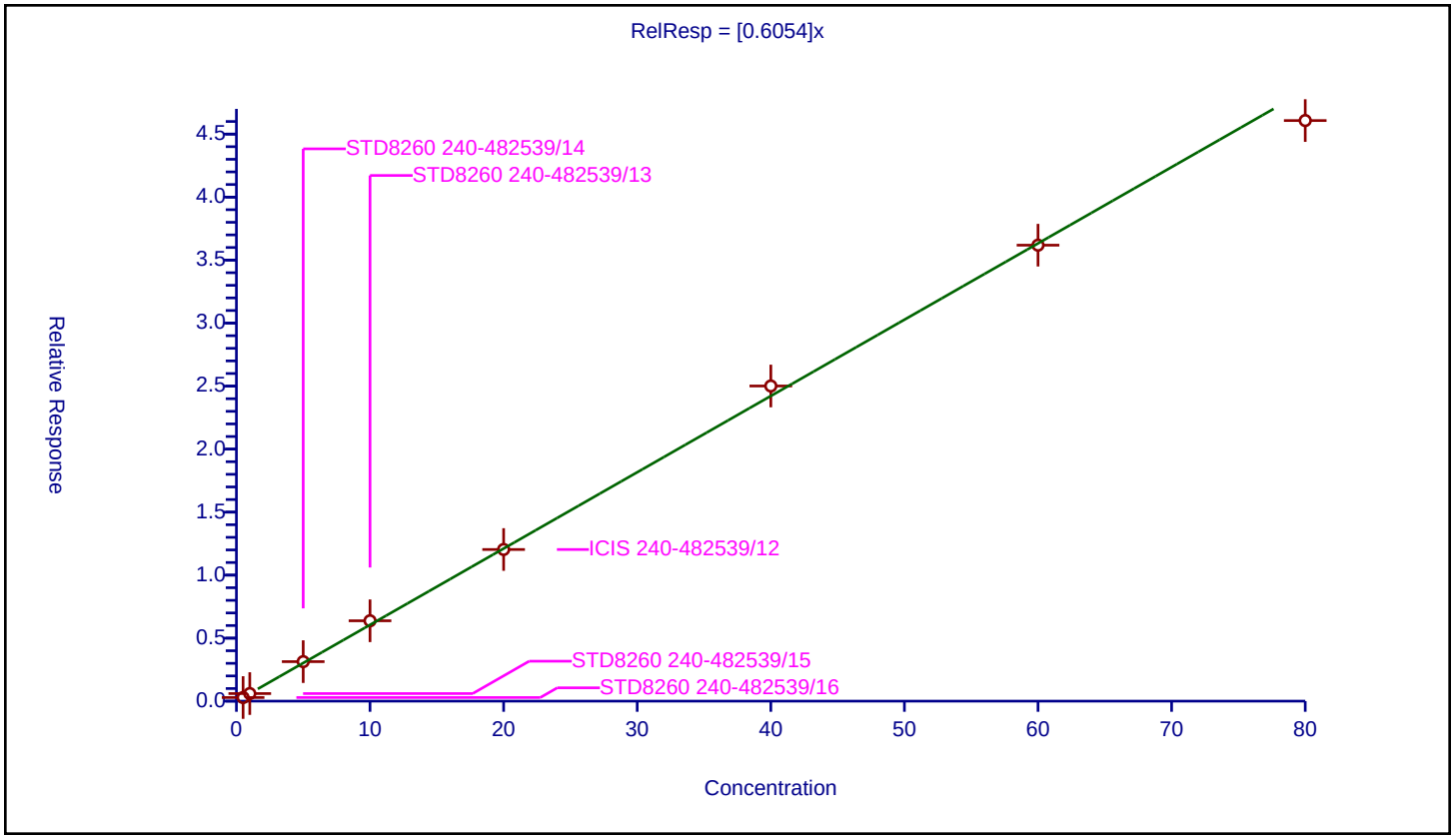
Curve Coefficients

Intercept:	0
Slope:	0.6054

Error Coefficients

Standard Error:	792000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-482539/16	0.5	0.285889	20.0	526359.0	0.571777	Y
2	STD8260 240-482539/15	1.0	0.600475	20.0	537741.0	0.600475	Y
3	STD8260 240-482539/14	5.0	3.136284	20.0	561078.0	0.627257	Y
4	STD8260 240-482539/13	10.0	6.378482	20.0	595960.0	0.637848	Y
5	ICIS 240-482539/12	20.0	12.03505	20.0	621051.0	0.601753	Y
6	STD8260 240-482539/11	40.0	25.01062	20.0	635127.0	0.625265	Y
7	STD8260 240-482539/10	60.0	36.183466	20.0	633664.0	0.603058	Y
8	STD8260 240-482539/9	80.0	46.074361	20.0	653221.0	0.57593	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 16:29 Calibration End Date: 04/23/2021 18:30 Calibration ID: 61161

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-482539/25	UXM36575.D
Level 2	STDA9 240-482539/24	UXM36574.D
Level 3	STDA9 240-482539/23	UXM36573.D
Level 4	STDA9 240-482539/22	UXM36572.D
Level 5	STDA9 240-482539/21	UXM36571.D
Level 6	STDA9 240-482539/20	UXM36570.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	+++++ 0.0276	0.0361	0.0334	0.0307	0.0303	Ave		0.0316				10.3		20.0			
Diisopropyl ether	0.1607 0.1883	0.1694	0.1882	0.1812	0.2021	Ave		0.1817				8.1		20.0			
2-Chloro-1,3-butadiene	0.3806 0.3581	0.3705	0.4035	0.3748	0.4039	Ave		0.3819				4.8		20.0			
Ethyl-t-butyl ether (ETBE)	0.5383 0.6509	0.5850	0.6143	0.5919	0.6640	Ave		0.6074				7.6		20.0			
Ethyl acetate	0.1451 0.1762	0.2028	0.1564	0.1607	0.1723	Ave		0.1689				11.9		20.0			
Propionitrile	0.0371 0.0314	0.0390	0.0357	0.0332	0.0327	Ave		0.0348				8.3		20.0			
Methacrylonitrile	0.1123 0.1338	0.1252	0.1210	0.1210	0.1283	Ave		0.1236				6.0		20.0			
Isooctane	0.8327 0.7002	0.8640	0.8265	0.7346	0.7951	Ave		0.7922				7.9		20.0			
Tert-amyl-methyl ether (TAME)	0.5310 0.6311	0.5519	0.5742	0.5553	0.6217	Ave		0.5775				7.0		20.0			
n-Butanol	0.0042 0.0057	0.0052	0.0047	0.0049	0.0049	Ave		0.0049				10.2		20.0			
Ethyl acrylate	0.2699 0.2483	0.3015	0.2287	0.2237	0.2366	Ave		0.2515				11.7		20.0			
Methyl methacrylate	0.1888 0.1727	0.1918	0.1675	0.1562	0.1691	Ave		0.1743				7.8		20.0			
2-Nitropropane	+++++ 0.0660	0.1151	0.0689	0.0672	0.0673	Lin1	0.0967	0.0654				1.9			1.0000		0.9900
n-Butyl acetate	+++++ 0.2715	0.3223	0.2992	0.2791	0.2787	Ave		0.2902				7.1		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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 16:29 Calibration End Date: 04/23/2021 18:30 Calibration ID: 61161

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								
1-Chlorohexane	0.5947 0.4880	0.5337	0.5296	0.4894	0.5463	Ave		0.5303				7.5		20.0			
Cyclohexanone	0.0413 0.0194	0.0294	0.0170	0.0161	0.0187	Lin1	0.0994	0.0184				13.5			0.9940		0.9900
Pentachloroethane	0.0786 0.1343	0.1234	0.1012	0.0916	0.1249	Ave		0.1090				20.0		20.0			
1,2,3-Trimethylbenzene	2.5693 2.5949	2.5413	2.5936	2.4854	2.8197	Ave		2.6007				4.4		20.0			
Benzyl chloride	0.2381 0.3052	0.2654	0.2665	0.2548	0.3051	Ave		0.2725				10.0		20.0			
1,3,5-Trichlorobenzene	0.8932 0.9256	0.9009	0.9177	0.8818	1.0141	Ave		0.9222				5.2		20.0			
2-Methylnaphthalene	0.6888 0.8186	0.7584	0.6909	0.7136	0.7883	Ave		0.7431				7.3		20.0			
1-Methylnaphthalene	0.5434 0.6964	0.6120	0.5695	0.5946	0.6642	Ave		0.6134				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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 16:29 Calibration End Date: 04/23/2021 18:30 Calibration ID: 61161

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-482539/25	UXM36575.D
Level 2	STDA9 240-482539/24	UXM36574.D
Level 3	STDA9 240-482539/23	UXM36573.D
Level 4	STDA9 240-482539/22	UXM36572.D
Level 5	STDA9 240-482539/21	UXM36571.D
Level 6	STDA9 240-482539/20	UXM36570.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	+++++ 1748658	19635	198462	389761	846391	+++++ 800	10.0	100	200	400
Diisopropyl ether	FB	Ave	4327 1193266	9217	111673	230108	564269	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	10249 2269137	20153	239490	475883	1127455	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	14494 4124144	31824	364610	751515	1853657	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	7812 2233061	22067	185634	408040	962255	1.00 160	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	9991 1988475	21201	211780	420976	913557	5.00 800	10.0	100	200	400
Methacrylonitrile	FB	Ave	30231 8478148	68094	718408	1536452	3582708	5.00 800	10.0	100	200	400
Isooctane	FB	Ave	22423 4436290	46997	490497	932793	2219553	0.500 80.0	1.00	10.0	20.0	40.0
Tert-amyl-methyl ether (TAME)	FB	Ave	14298 3998423	30022	340780	705080	1735614	0.500 80.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Ave	2824 903607	7027	69003	156294	345423	12.5 2000	25.0	250	500	1000
Ethyl acrylate	FB	Ave	7267 1573460	16400	135742	284039	660573	0.500 80.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	10166 2188122	20870	198850	396564	944139	1.00 160	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Lin1	+++++ 836046	12520	81820	170553	376025	+++++ 160	2.00	20.0	40.0	80.0
n-Butyl acetate	FB	Ave	+++++	17532	177583	354416	777950	+++++	1.00	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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 16:29 Calibration End Date: 04/23/2021 18:30 Calibration ID: 61161

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
			1719938					80.0				
1-Chlorohexane	CBNZ d5	Ave	14045 2246709	25253	256700	489556	1138099	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Lin1	5542 461518	7650	45586	87605	200642	5.00 800	10.0	100	200	400
Pentachloroethane	CBNZ d5	Ave	3712 1236757	11677	98105	183295	520223	1.00 160	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	34447 6157878	66139	693474	1350473	3032742	0.500 80.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	3192 724297	6907	71266	138435	328177	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	11975 2196600	23445	245368	479162	1090709	0.500 80.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	18469 3885388	39475	369455	775436	1695769	1.00 160	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	14571 3305354	31855	304533	646167	1428852	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.: 240-150601-1 Analy Batch No.: 482539

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2021 16:29 Calibration End Date: 04/23/2021 18:30 Calibration ID: 61161

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-482539/25	UXM36575.D
Level 2	STDA9 240-482539/24	UXM36574.D
Level 3	STDA9 240-482539/23	UXM36573.D
Level 4	STDA9 240-482539/22	UXM36572.D
Level 5	STDA9 240-482539/21	UXM36571.D
Level 6	STDA9 240-482539/20	UXM36570.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
2-Nitropropane	+++++	2.0						50				
Cyclohexanone	16.7						50					

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36570.D
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Apr-2021 16:29:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-020
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:42 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 26-Apr-2021 08:01:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.845	0.001	99	1584023	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	85	1151063	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	98	593262	20.0	20.0	
25 Acetonitrile	41	3.545	3.545	0.000	99	1748658	800.0	698.0	
36 Isopropyl ether	87	4.363	4.363	0.000	93	1193266	80.0	82.9	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	92	2269137	80.0	75.0	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	97	4124144	80.0	85.7	
43 Ethyl acetate	43	4.849	4.849	0.000	99	2233061	160.0	166.9	
42 Propionitrile	54	4.885	4.885	0.000	99	1988475	800.0	720.7	
44 Methacrylonitrile	41	5.015	5.016	-0.001	93	8478148	800.0	866.0	
163 Isooctane	57	5.680	5.680	0.000	97	4436290	80.0	70.7	
55 Tert-amyl methyl ether	73	5.680	5.680	0.000	98	3998423	80.0	87.4	
57 n-Butanol	56	6.035	6.035	0.000	86	903607	2000.0	2313.4	
59 Ethyl acrylate	55	6.201	6.201	0.000	99	1573460	80.0	79.0	
62 Methyl methacrylate	41	6.403	6.403	0.000	89	2188122	160.0	158.5	
66 2-Nitropropane	41	6.794	6.794	0.000	97	836046	160.0	159.9	
77 n-Butyl acetate	43	7.944	7.945	-0.001	96	1719938	80.0	74.8	
81 1-Chlorohexane	91	8.549	8.549	0.000	98	2246709	80.0	73.6	
91 Cyclohexanone	55	9.617	9.617	0.000	92	461518	800.0	840.8	
103 Pentachloroethane	167	10.447	10.447	0.000	96	1236757	160.0	197.2	
109 1,2,3-Trimethylbenzene	105	10.874	10.874	0.000	98	6157878	80.0	79.8	
110 Benzyl chloride	126	10.968	10.968	0.000	99	724297	80.0	89.6	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	98	2196600	80.0	80.3	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	93	3885388	160.0	176.3	
162 1-Methylnaphthalene	142	14.811	14.811	0.000	0	3305354	160.0	181.7	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00388	Amount Added: 64.00	Units: uL
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL

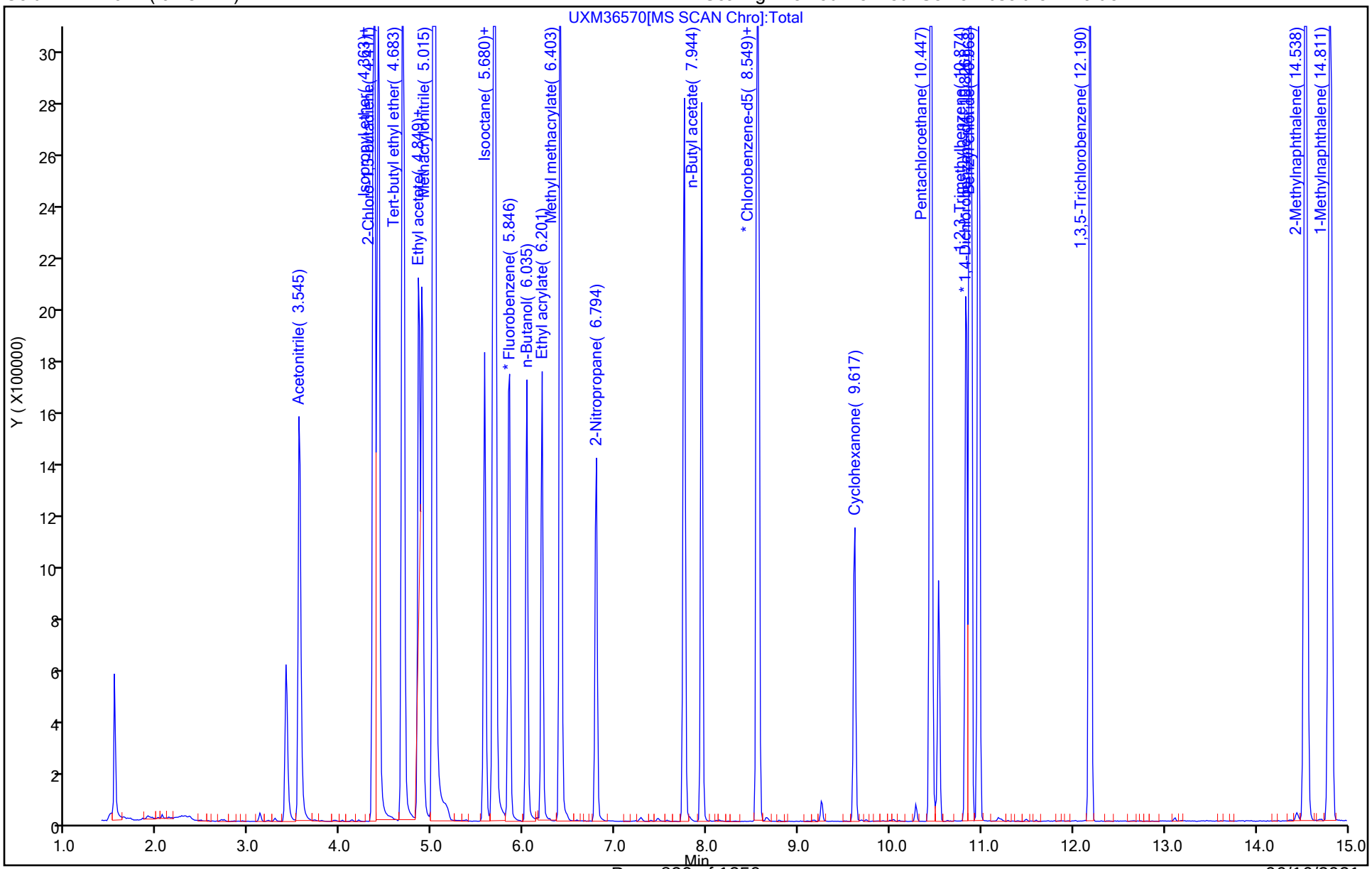
Report Date: 26-Apr-2021 08:34:43 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36570.D

Injection Date:	23-Apr-2021 16:29:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L6			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\20210423-108510.b\UXM36571.D
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Apr-2021 16:53:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-021
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:44 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 26-Apr-2021 08:01:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	1395855	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	86	1041684	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	537769	20.0	20.0	
25 Acetonitrile	41	3.545	3.545	0.000	99	846391	400.0	383.4	
36 Isopropyl ether	87	4.363	4.363	0.000	93	564269	40.0	44.5	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	92	1127455	40.0	42.3	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	97	1853657	40.0	43.7	
43 Ethyl acetate	43	4.849	4.849	0.000	99	962255	80.0	81.6	
42 Propionitrile	54	4.885	4.885	0.000	99	913557	400.0	375.7	
44 Methacrylonitrile	41	5.016	5.016	0.000	93	3582708	400.0	415.3	
163 Isooctane	57	5.680	5.680	0.000	97	2219553	40.0	40.1	
55 Tert-amyl methyl ether	73	5.680	5.680	0.000	96	1735614	40.0	43.1	
57 n-Butanol	56	6.035	6.035	0.000	85	345423	1000.0	1003.6	
59 Ethyl acrylate	55	6.201	6.201	0.000	99	660573	40.0	37.6	
62 Methyl methacrylate	41	6.403	6.403	0.000	90	944139	80.0	77.6	
66 2-Nitropropane	41	6.794	6.794	0.000	98	376025	80.0	80.9	
77 n-Butyl acetate	43	7.945	7.945	0.000	97	777950	40.0	38.4	
81 1-Chlorohexane	91	8.549	8.549	0.000	98	1138099	40.0	41.2	
91 Cyclohexanone	55	9.617	9.617	0.000	92	200642	400.0	400.5	
103 Pentachloroethane	167	10.447	10.447	0.000	96	520223	80.0	91.6	
109 1,2,3-Trimethylbenzene	105	10.874	10.874	0.000	98	3032742	40.0	43.4	
110 Benzyl chloride	126	10.968	10.968	0.000	99	328177	40.0	44.8	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	98	1090709	40.0	44.0	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	93	1695769	80.0	84.9	
162 1-Methylnaphthalene	142	14.811	14.811	0.000	0	1428852	80.0	86.6	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00388	Amount Added: 32.00	Units: uL
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL

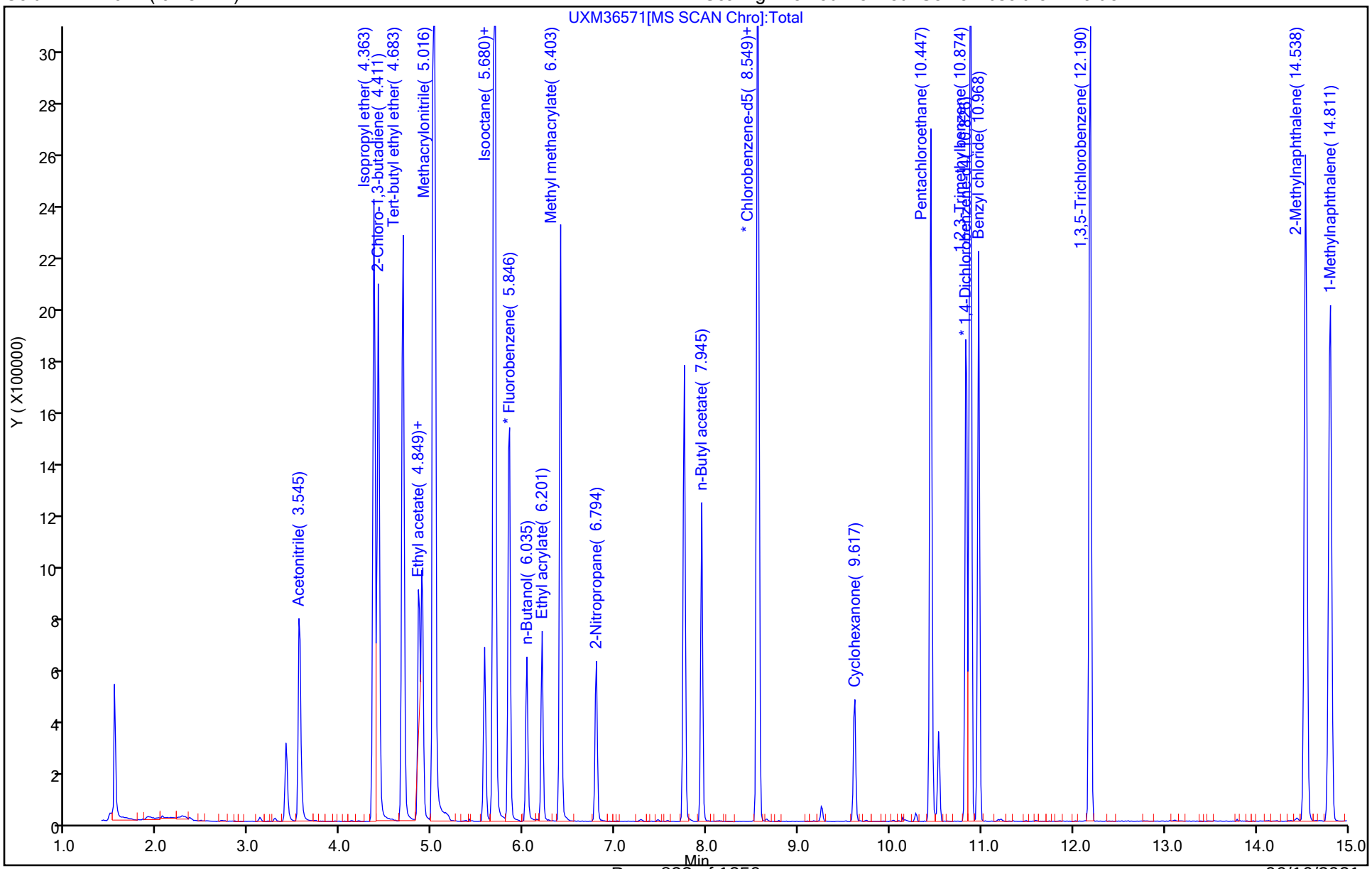
Report Date: 26-Apr-2021 08:34:45 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36571.D

Injection Date:	23-Apr-2021 16:53:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L5			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\20210423-108510.b\UXM36572.D
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Apr-2021 17:17:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-022
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:47 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 26-Apr-2021 08:02:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	1269739	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	1000281	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	543363	20.0	20.0	
25 Acetonitrile	41	3.545	3.545	0.000	99	389761	200.0	194.1	
36 Isopropyl ether	87	4.363	4.363	0.000	93	230108	20.0	20.0	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	92	475883	20.0	19.6	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	97	751515	20.0	19.5	
43 Ethyl acetate	43	4.849	4.849	0.000	99	408040	40.0	38.0	
42 Propionitrile	54	4.885	4.885	0.000	99	420976	200.0	190.3	
44 Methacrylonitrile	41	5.016	5.016	0.000	93	1536452	200.0	195.8	
163 Isooctane	57	5.680	5.680	0.000	97	932793	20.0	18.5	
55 Tert-amyl methyl ether	73	5.680	5.680	0.000	96	705080	20.0	19.2	
57 n-Butanol	56	6.035	6.035	0.000	86	156294	500.0	499.2	
59 Ethyl acrylate	55	6.201	6.201	0.000	99	284039	20.0	17.8	
62 Methyl methacrylate	41	6.403	6.403	0.000	91	396564	40.0	35.8	
66 2-Nitropropane	41	6.794	6.794	0.000	98	170553	40.0	39.6	
77 n-Butyl acetate	43	7.945	7.945	0.000	96	354416	20.0	19.2	
81 1-Chlorohexane	91	8.549	8.549	0.000	98	489556	20.0	18.5	
91 Cyclohexanone	55	9.617	9.617	0.000	92	87605	200.0	170.0	
103 Pentachloroethane	167	10.447	10.447	0.000	96	183295	40.0	33.6	
109 1,2,3-Trimethylbenzene	105	10.874	10.874	0.000	98	1350473	20.0	19.1	
110 Benzyl chloride	126	10.968	10.968	0.000	99	138435	20.0	18.7	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	97	479162	20.0	19.1	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	93	775436	40.0	38.4	
162 1-Methylnaphthalene	142	14.811	14.811	0.000	0	646167	40.0	38.8	

QC Flag Legend

Processing Flags

Reagents:

vmra9w_00388	Amount Added: 16.00	Units: uL
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL

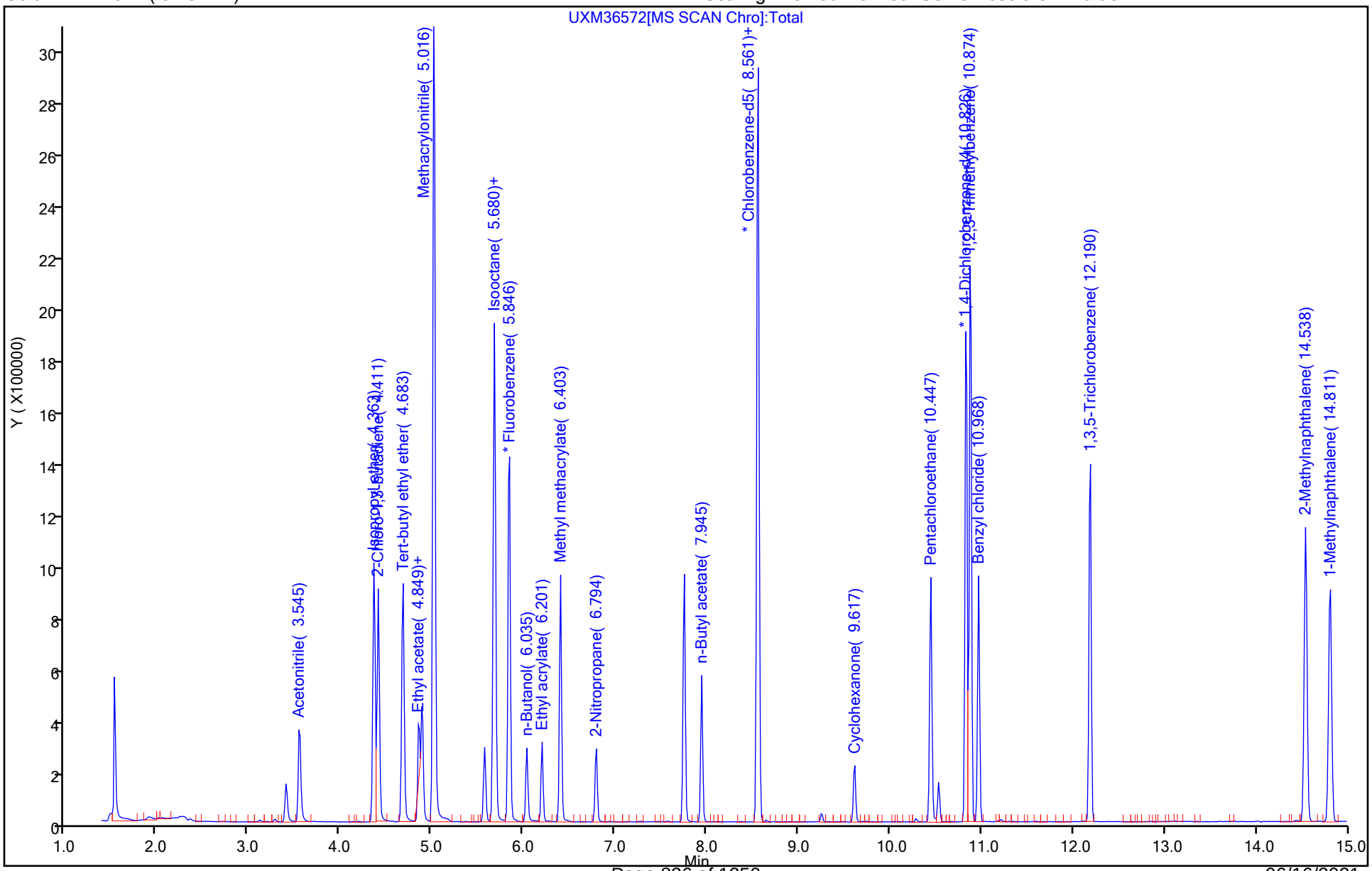
Report Date: 26-Apr-2021 08:34:48 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36572.D

Injection Date:	23-Apr-2021 17:17:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L4			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\20210423-108510.b\UXM36573.D
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Apr-2021 17:42:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-023
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:50 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 26-Apr-2021 08:02:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	1186994	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	969326	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	534763	20.0	20.0	
25 Acetonitrile	41	3.557	3.545	0.012	99	198462	100.0	105.7	
36 Isopropyl ether	87	4.363	4.363	0.000	93	111673	10.0	10.4	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	92	239490	10.0	10.6	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	97	364610	10.0	10.1	
43 Ethyl acetate	43	4.849	4.849	0.000	99	185634	20.0	18.5	
42 Propionitrile	54	4.885	4.885	0.000	99	211780	100.0	102.4	
44 Methacrylonitrile	41	5.015	5.016	-0.001	92	718408	100.0	97.9	
163 Isooctane	57	5.679	5.680	-0.001	96	490497	10.0	10.4	
55 Tert-amyl methyl ether	73	5.679	5.680	-0.001	99	340780	10.0	9.94	
57 n-Butanol	56	6.035	6.035	0.000	87	69003	250.0	235.7	
59 Ethyl acrylate	55	6.201	6.201	0.000	99	135742	10.0	9.10	
62 Methyl methacrylate	41	6.403	6.403	0.000	89	198850	20.0	19.2	
66 2-Nitropropane	41	6.794	6.794	0.000	97	81820	20.0	19.6	
77 n-Butyl acetate	43	7.944	7.945	-0.001	96	177583	10.0	10.3	
81 1-Chlorohexane	91	8.549	8.549	0.000	97	256700	10.0	9.99	
91 Cyclohexanone	55	9.616	9.617	-0.001	92	45586	100.0	87.3	
103 Pentachloroethane	167	10.447	10.447	0.000	93	98105	20.0	18.6	
109 1,2,3-Trimethylbenzene	105	10.874	10.874	0.000	98	693474	10.0	9.97	
110 Benzyl chloride	126	10.968	10.968	0.000	99	71266	10.0	9.78	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	97	245368	10.0	9.95	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	92	369455	20.0	18.6	
162 1-Methylnaphthalene	142	14.811	14.811	0.000	0	304533	20.0	18.6	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00388	Amount Added:	8.00	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

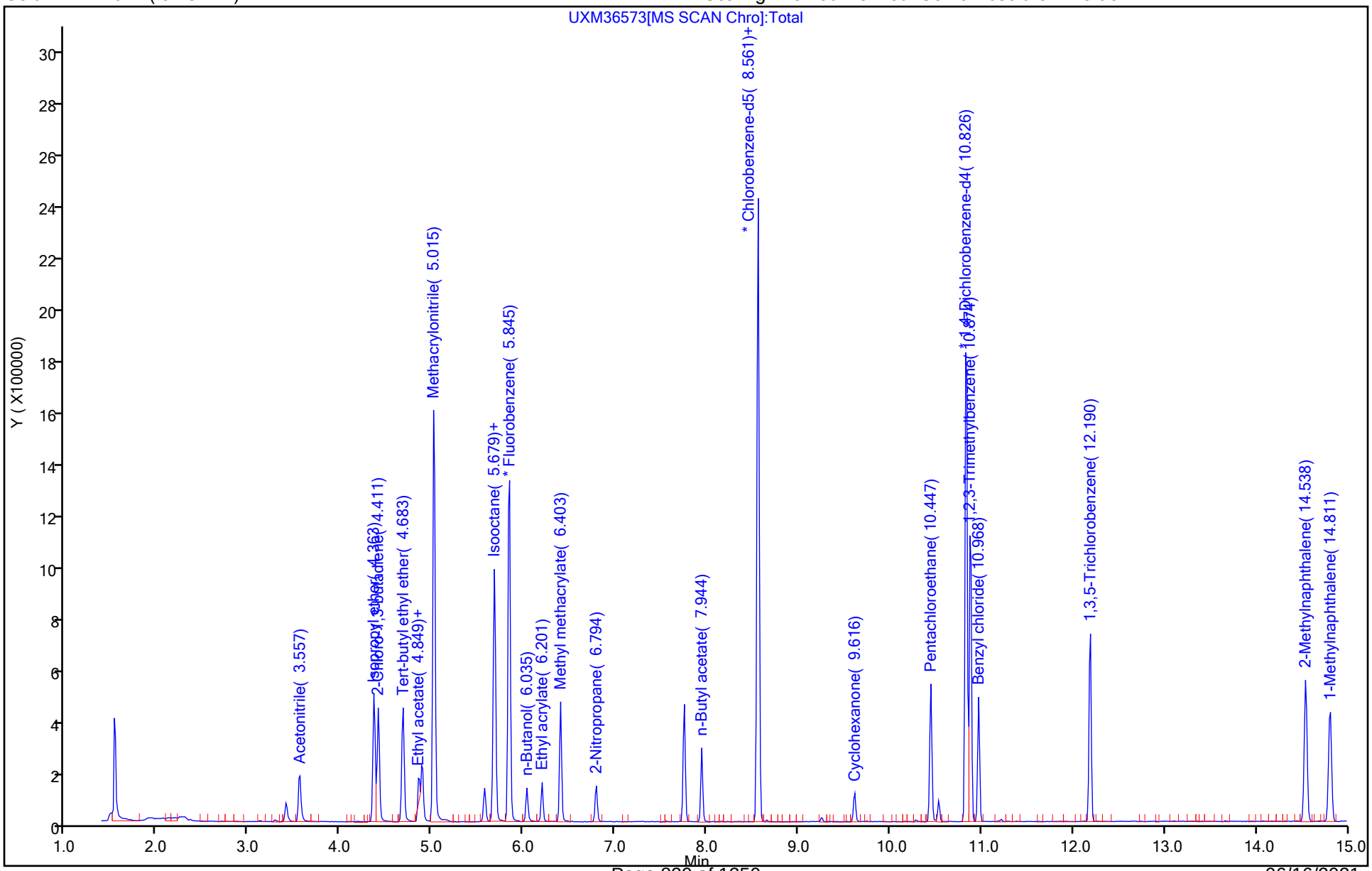
Report Date: 26-Apr-2021 08:34:51 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36573.D

Injection Date:	23-Apr-2021 17:42:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L3			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\20210423-108510.b\UXM36574.D
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Apr-2021 18:06:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-024
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:53 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 26-Apr-2021 08:02:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	1087941	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	946330	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	96	520505	20.0	20.0	
25 Acetonitrile	41	3.557	3.545	0.012	99	19635	10.0	11.4	
36 Isopropyl ether	87	4.363	4.363	0.000	93	9217	1.00	0.9327	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	93	20153	1.00	0.9701	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	99	31824	1.00	0.9632	
43 Ethyl acetate	43	4.861	4.849	0.012	99	22067	2.00	2.40	
42 Propionitrile	54	4.897	4.885	0.012	97	21201	10.0	11.2	
44 Methacrylonitrile	41	5.015	5.016	-0.001	93	68094	10.0	10.1	
163 Isooctane	57	5.680	5.680	0.000	97	46997	1.00	1.09	
55 Tert-amyl methyl ether	73	5.680	5.680	0.000	94	30022	1.00	0.9556	
57 n-Butanol	56	6.035	6.035	0.000	94	7027	25.0	26.2	
59 Ethyl acrylate	55	6.201	6.201	0.000	98	16400	1.00	1.20	
62 Methyl methacrylate	41	6.403	6.403	0.000	89	20870	2.00	2.20	
66 2-Nitropropane	41	6.794	6.794	0.000	99	12520	2.00	2.04	
77 n-Butyl acetate	43	7.945	7.945	0.000	93	17532	1.00	1.11	
81 1-Chlorohexane	91	8.549	8.549	0.000	87	25253	1.00	1.01	
91 Cyclohexanone	55	9.617	9.617	0.000	86	7650	10.0	10.6	
103 Pentachloroethane	167	10.447	10.447	0.000	93	11677	2.00	2.26	
109 1,2,3-Trimethylbenzene	105	10.874	10.874	0.000	97	66139	1.00	0.9772	
110 Benzyl chloride	126	10.968	10.968	0.000	98	6907	1.00	0.9739	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	96	23445	1.00	0.9768	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	92	39475	2.00	2.04	
162 1-Methylnaphthalene	142	14.811	14.811	0.000	0	31855	2.00	2.00	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00388	Amount Added:	0.80	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

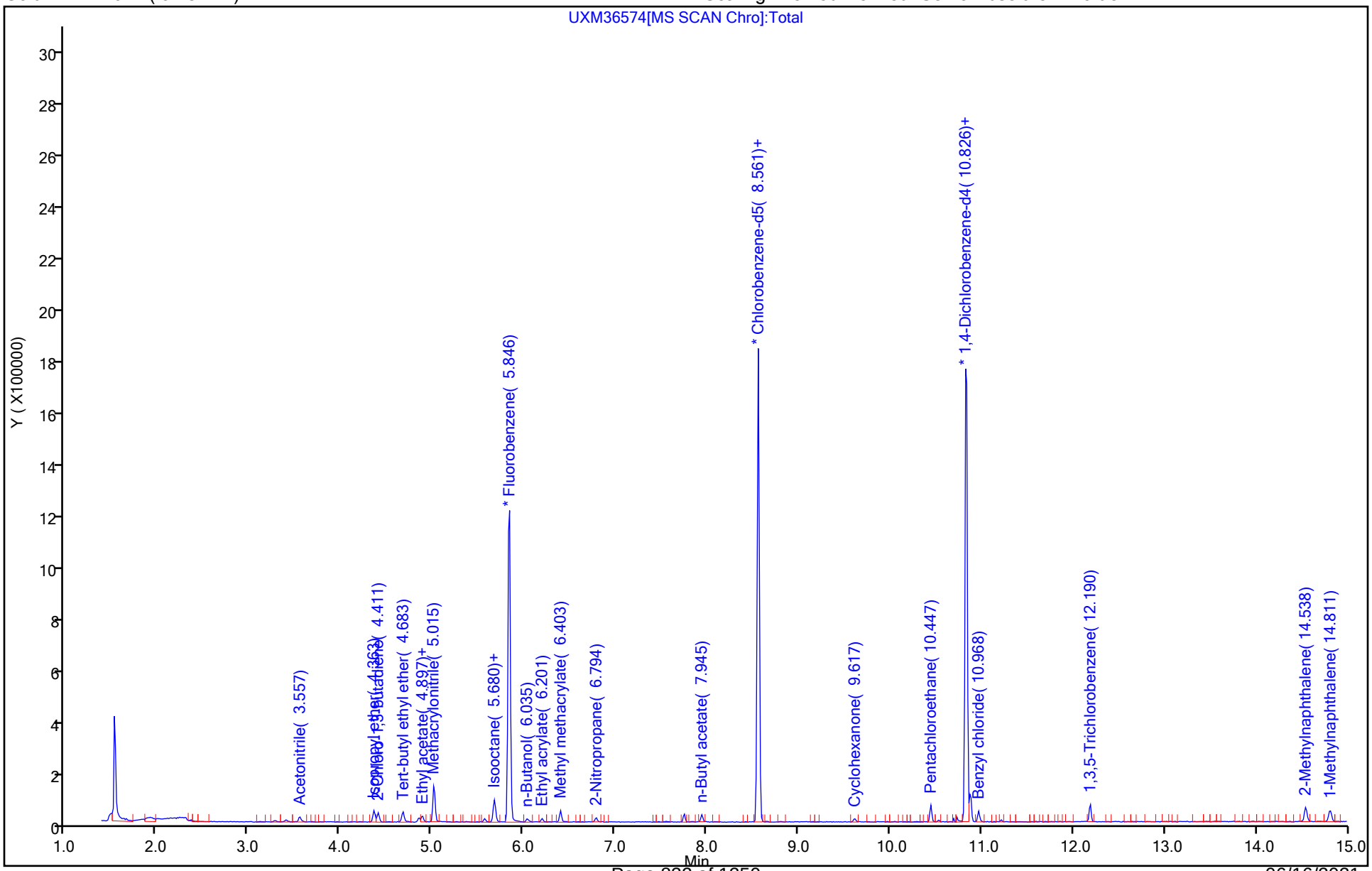
Report Date: 26-Apr-2021 08:34:54 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36574.D

Injection Date:	23-Apr-2021 18:06:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L2			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
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Apr-2021 18:30:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-025
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:34:55 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 26-Apr-2021 08:05:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	1077059	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	86	944637	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	536296	20.0	20.0	
25 Acetonitrile	41		3.545				ND	ND	U
36 Isopropyl ether	87	4.363	4.363	0.000	96	4327	0.5000	0.4423	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	91	10249	0.5000	0.4983	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	98	14494	0.5000	0.4431	
43 Ethyl acetate	43	4.849	4.849	0.000	95	7812	1.00	0.8588	
42 Propionitrile	54	4.897	4.885	0.012	97	9991	5.00	5.33	
44 Methacrylonitrile	41	5.015	5.016	-0.001	91	30231	5.00	4.54	
163 Isooctane	57	5.679	5.680	-0.001	91	22423	0.5000	0.5256	
55 Tert-amyl methyl ether	73	5.679	5.680	-0.001	76	14298	0.5000	0.4597	
57 n-Butanol	56	6.035	6.035	0.000	82	2824	12.5	10.6	
59 Ethyl acrylate	55	6.201	6.201	0.000	94	7267	0.5000	0.5366	
62 Methyl methacrylate	41	6.403	6.403	0.000	86	10166	1.00	1.08	
66 2-Nitropropane	41		6.794				ND	ND	U
77 n-Butyl acetate	43		7.945				ND	ND	U
81 1-Chlorohexane	91	8.549	8.549	0.000	63	14045	0.5000	0.5608	
91 Cyclohexanone	55	9.617	9.617	-0.001	83	5542	5.00	5.83	
103 Pentachloroethane	167	10.447	10.447	0.000	86	3712	1.00	0.7210	
109 1,2,3-Trimethylbenzene	105	10.874	10.874	0.000	97	34447	0.5000	0.4940	
110 Benzyl chloride	126	10.968	10.968	0.000	98	3192	0.5000	0.4368	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	94	11975	0.5000	0.4842	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	91	18469	1.00	0.9269	
162 1-Methylnaphthalene	142	14.811	14.811	0.000	0	14571	1.00	0.8859	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Review Flags
U - Marked Undetected

Reagents:

vmra9w_00388	Amount Added:	0.40	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

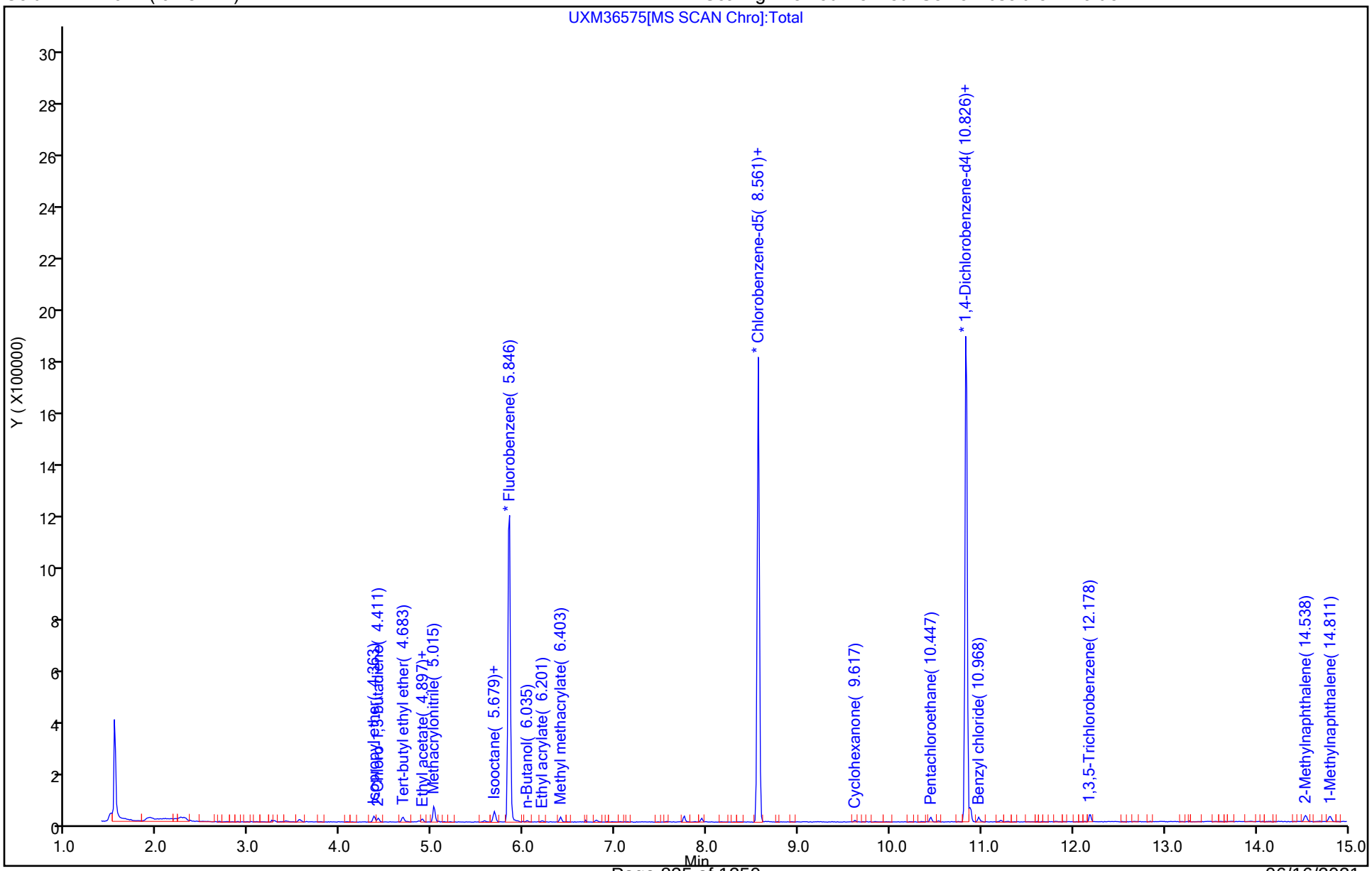
Report Date: 26-Apr-2021 08:34:56 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Injection Date:	23-Apr-2021 18:30:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L1			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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

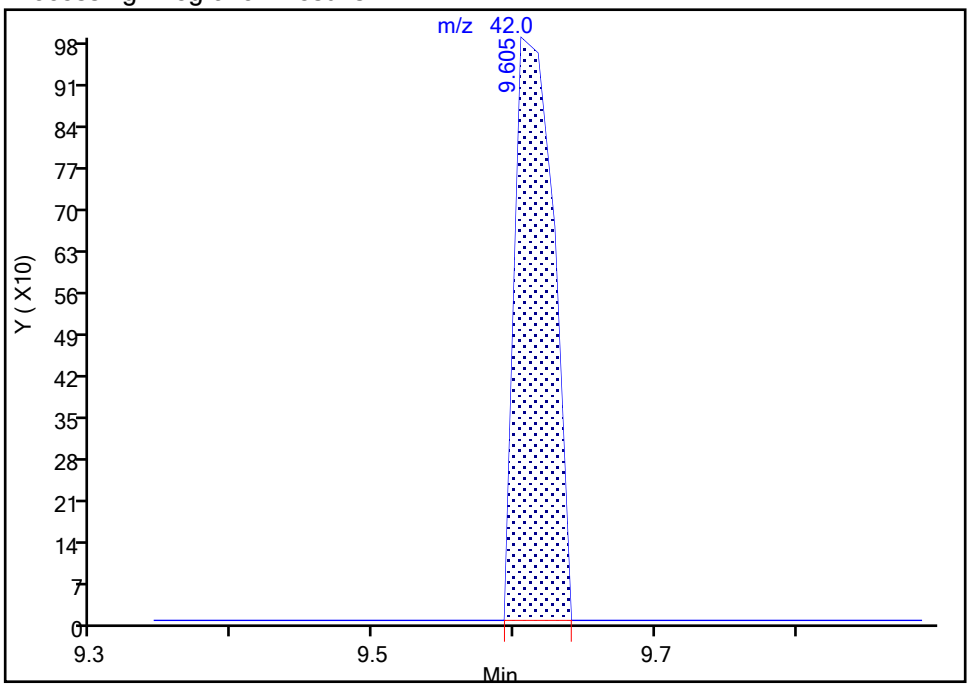
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Injection Date:	23-Apr-2021 18:30:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

91 Cyclohexanone, CAS: 108-94-1

Signal: 2

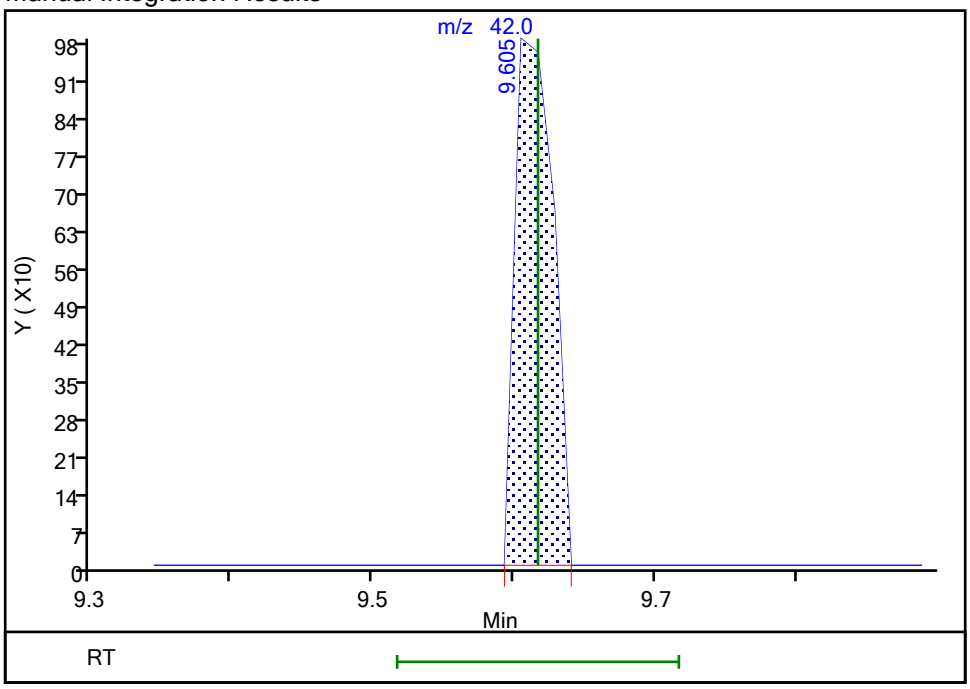
Processing Integration Results

RT: 9.60
Area: 1861
Amount: 5.833527
Amount Units: ug/l



Manual Integration Results

RT: 9.60
Area: 1861
Amount: 5.833527
Amount Units: ug/l



Reviewer: bosworthh, 26-Apr-2021 08:04:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton

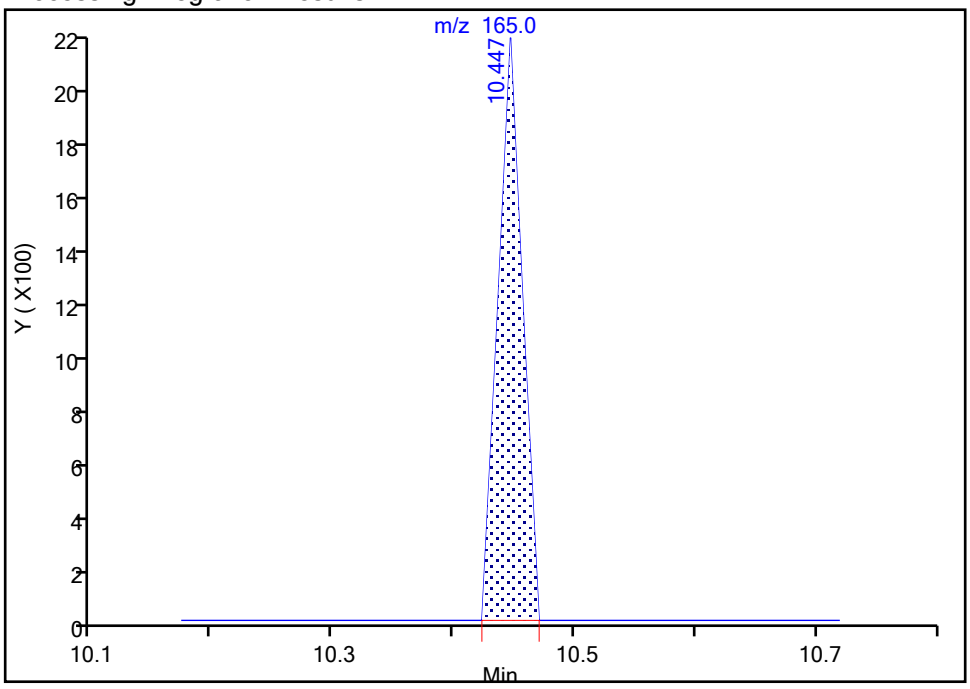
Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D
Injection Date: 23-Apr-2021 18:30:30 Instrument ID: A3UX16
Lims ID: stdA9 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

103 Pentachloroethane, CAS: 76-01-7

Signal: 2

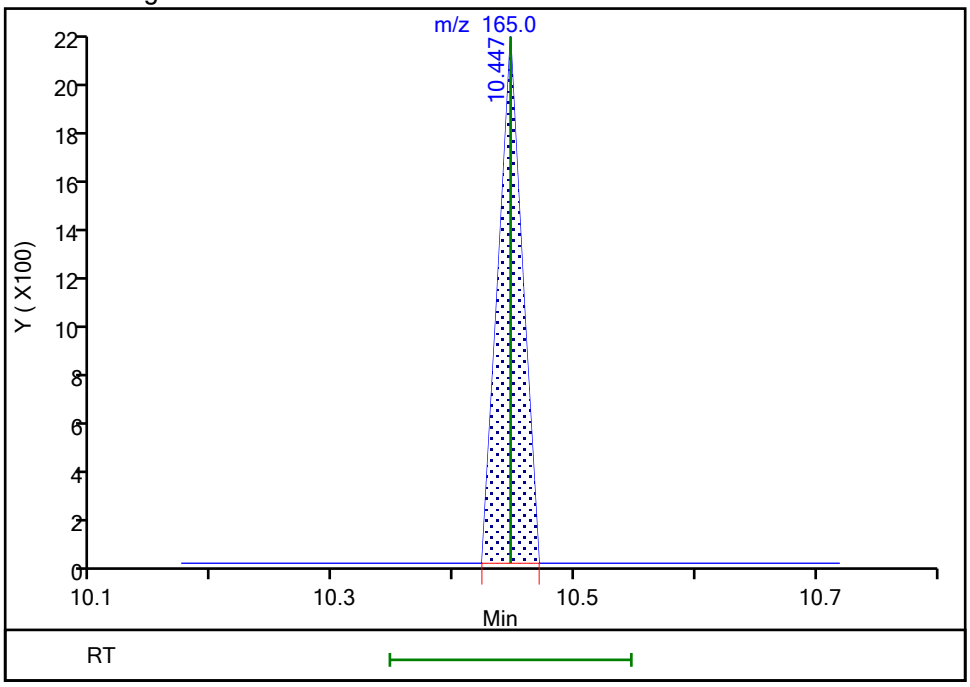
Processing Integration Results

RT: 10.45
Area: 3028
Amount: 2.012157
Amount Units: ug/l



Manual Integration Results

RT: 10.45
Area: 3028
Amount: 0.721049
Amount Units: ug/l



Reviewer: bosworthh, 26-Apr-2021 08:05:14
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\20210423-108510.b\UXM36575.D

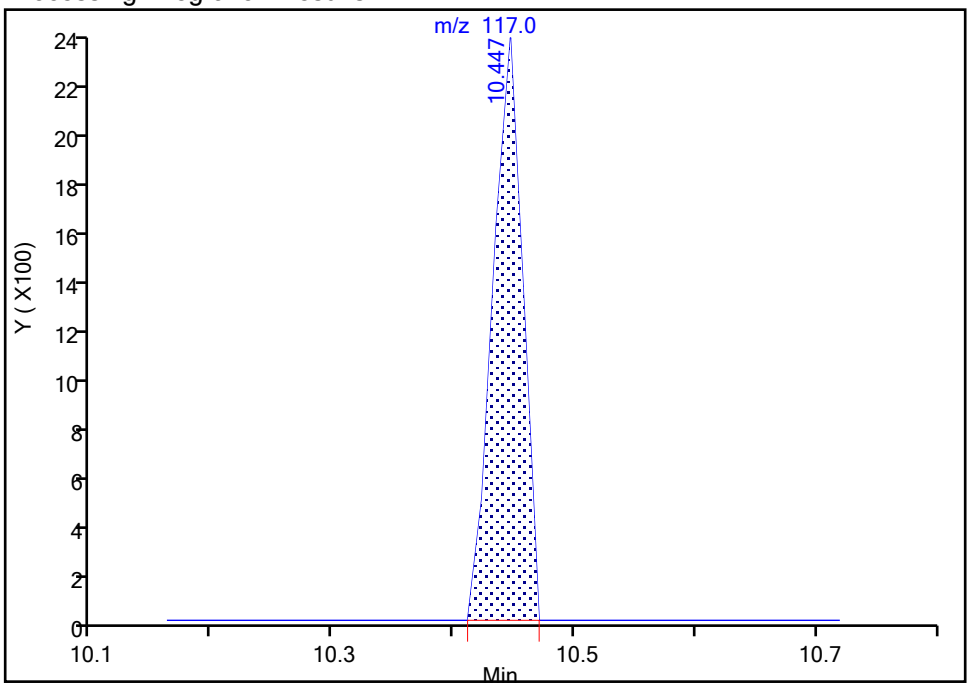
Injection Date:	23-Apr-2021 18:30:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

103 Pentachloroethane, CAS: 76-01-7

Signal: 3

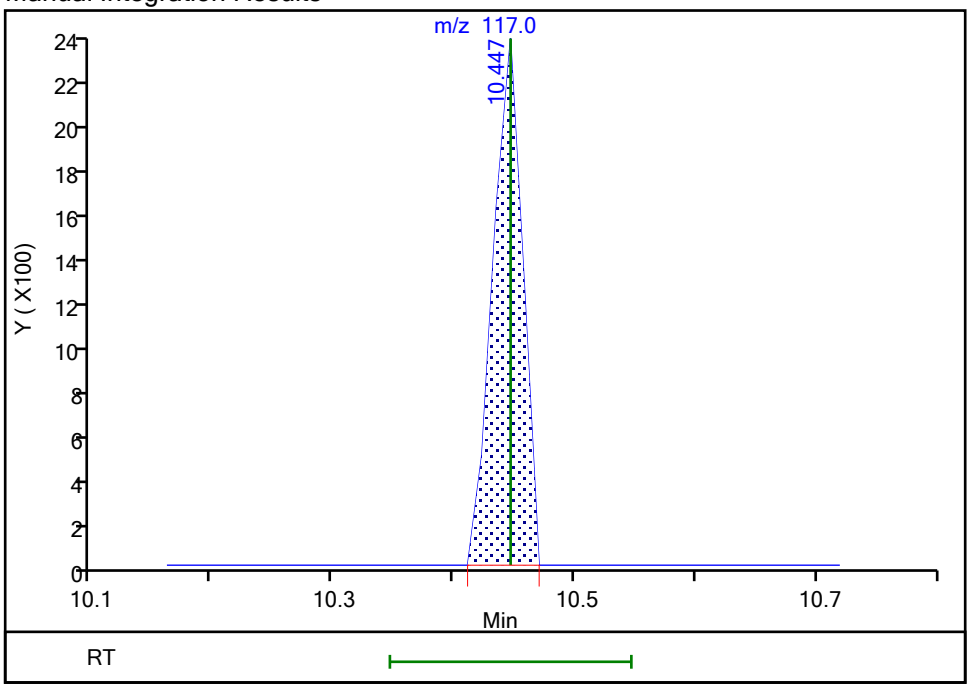
Processing Integration Results

RT: 10.45
Area: 4099
Amount: 2.012157
Amount Units: ug/l



Manual Integration Results

RT: 10.45
Area: 4099
Amount: 0.721049
Amount Units: ug/l



Reviewer: bosworthh, 26-Apr-2021 08:05:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

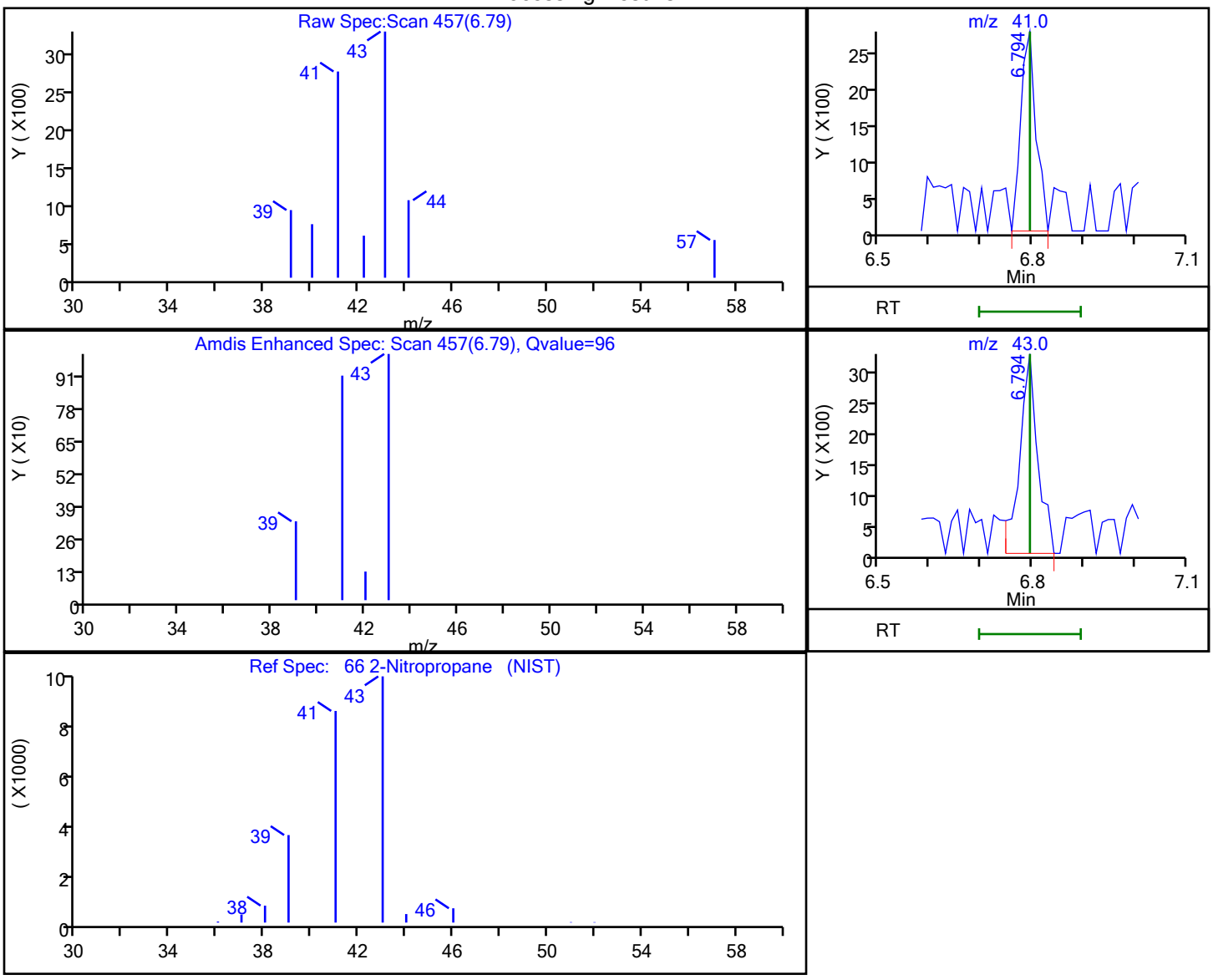
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Injection Date:	23-Apr-2021 18:30:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
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		

66 2-Nitropropane, CAS: 79-46-9

Processing Results



RT	Mass	Response	Amount
6.79	41.00	5717	1.298185
6.79	43.00	8149	

Reviewer: bosworthh, 26-Apr-2021 08:03:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

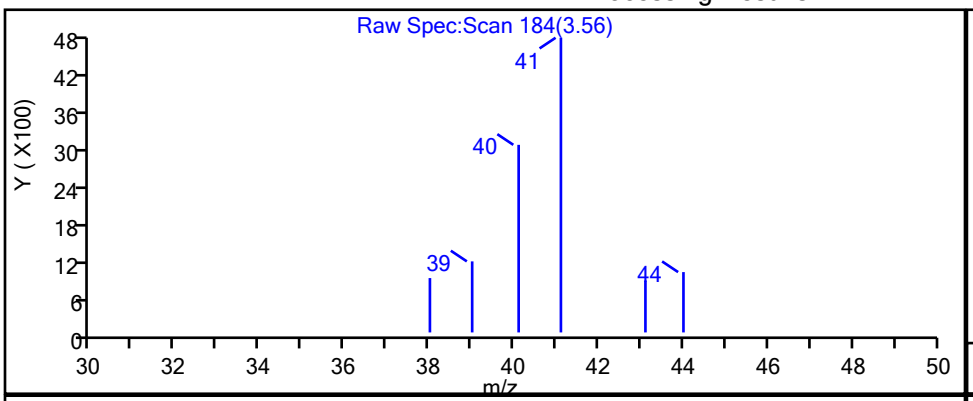
User Disabled Compound Report

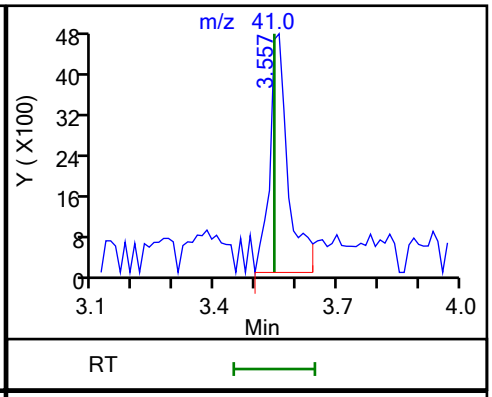
Eurofins TestAmerica, Canton

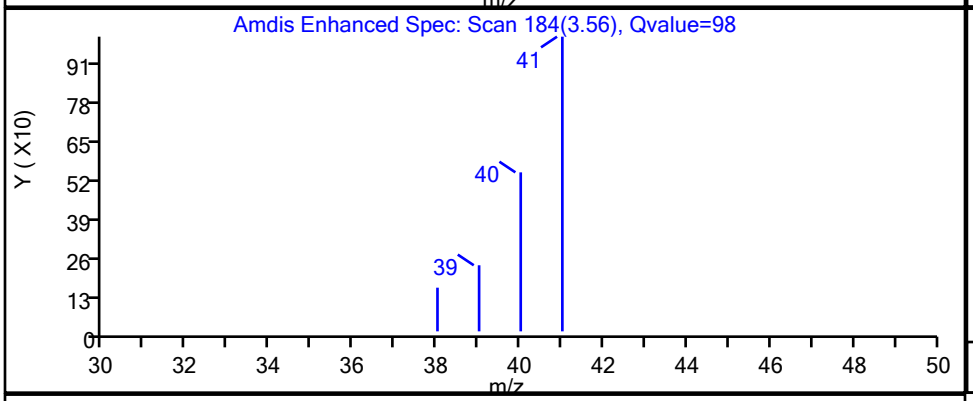
Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D
Injection Date: 23-Apr-2021 18:30:30 Instrument ID: A3UX16
Lims ID: stdA9 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

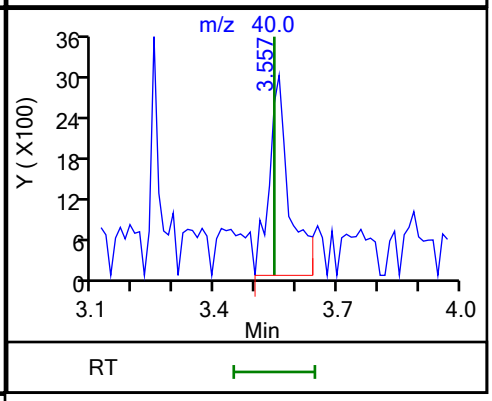
25 Acetonitrile, CAS: 75-05-8

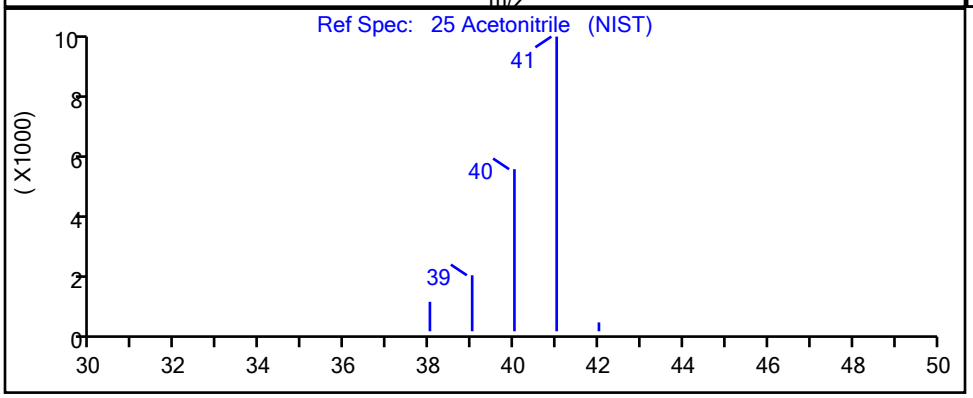
Processing Results











RT	Mass	Response	Amount
3.56	41.00	14801	5.128995
3.56	40.00	10349	

Reviewer: bosworthh, 26-Apr-2021 08:02:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

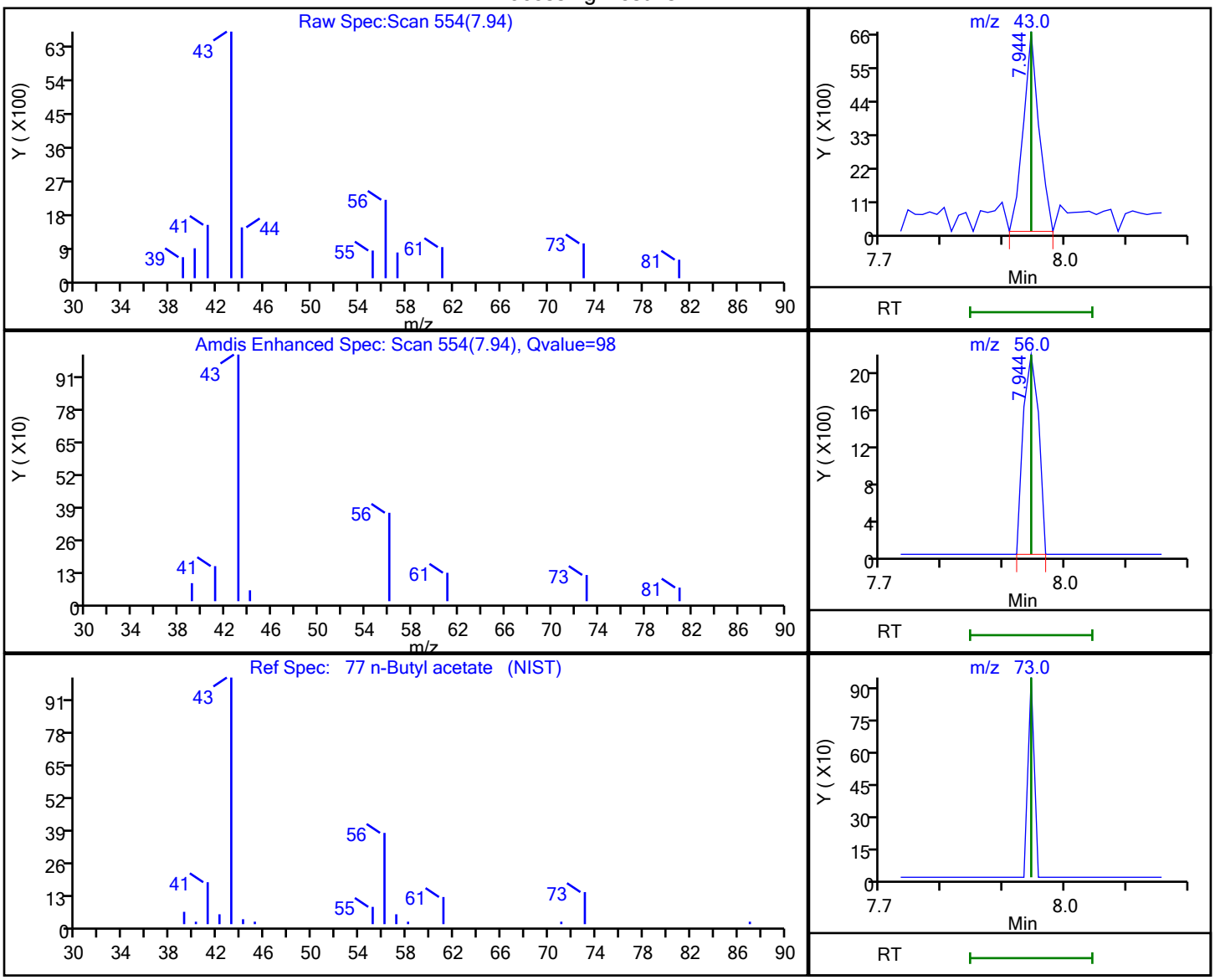
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Injection Date:	23-Apr-2021 18:30:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
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		

77 n-Butyl acetate, CAS: 123-86-4

Processing Results



RT	Mass	Response	Amount
7.94	43.00	11839	0.520336
7.94	56.00	3695	
7.94	73.00	0	

Reviewer: bosworthh, 26-Apr-2021 08:03:55

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

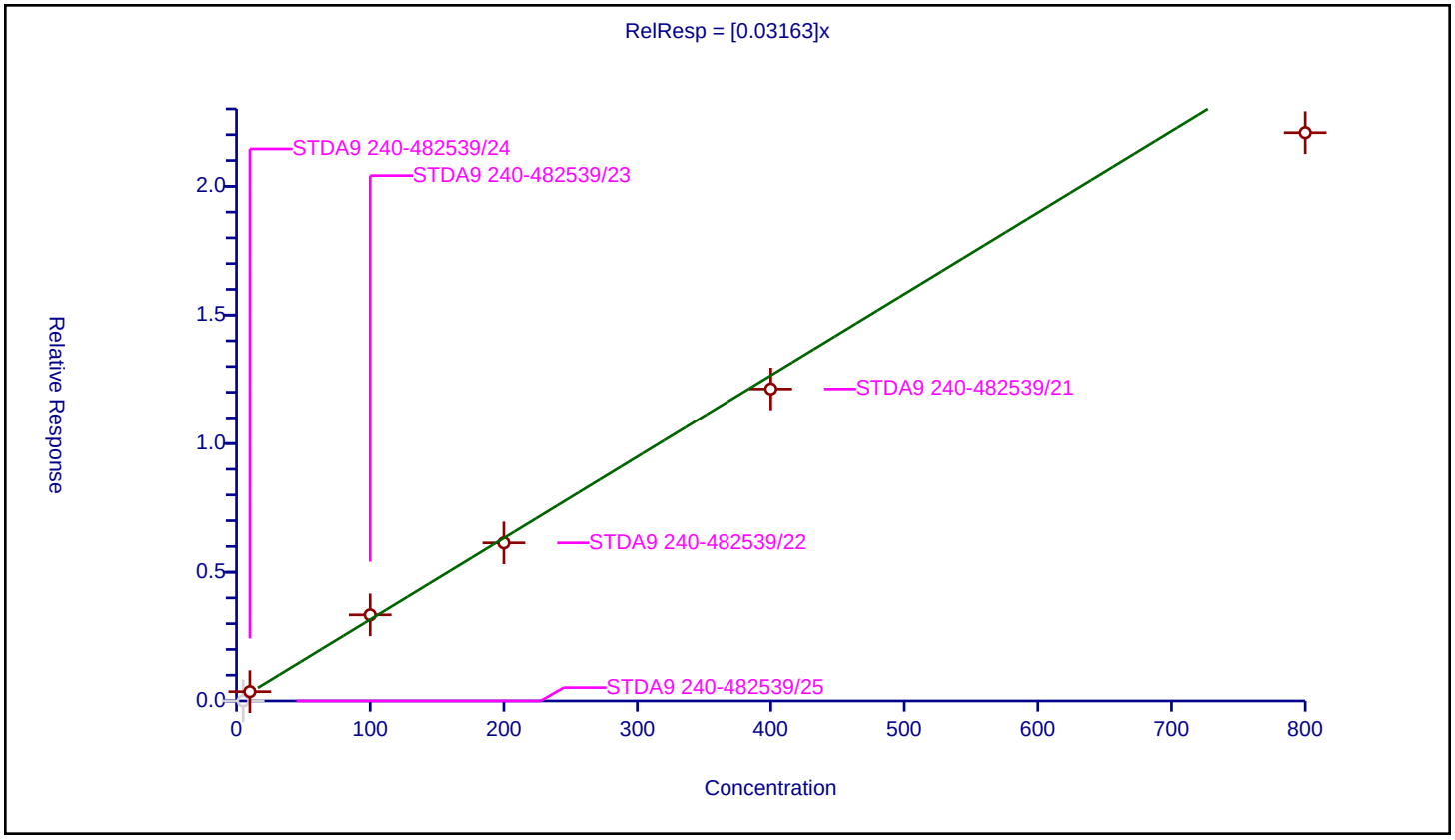
Curve Coefficients

Intercept:	0
Slope:	0.03163

Error Coefficients

Standard Error:	996000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	5.0	0.0	20.0	1077059.0	0.0	N
2	STDA9 240-482539/24	10.0	0.360957	20.0	1087941.0	0.036096	Y
3	STDA9 240-482539/23	100.0	3.343943	20.0	1186994.0	0.033439	Y
4	STDA9 240-482539/22	200.0	6.13923	20.0	1269739.0	0.030696	Y
5	STDA9 240-482539/21	400.0	12.127205	20.0	1395855.0	0.030318	Y
6	STDA9 240-482539/20	800.0	22.078695	20.0	1584023.0	0.027598	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

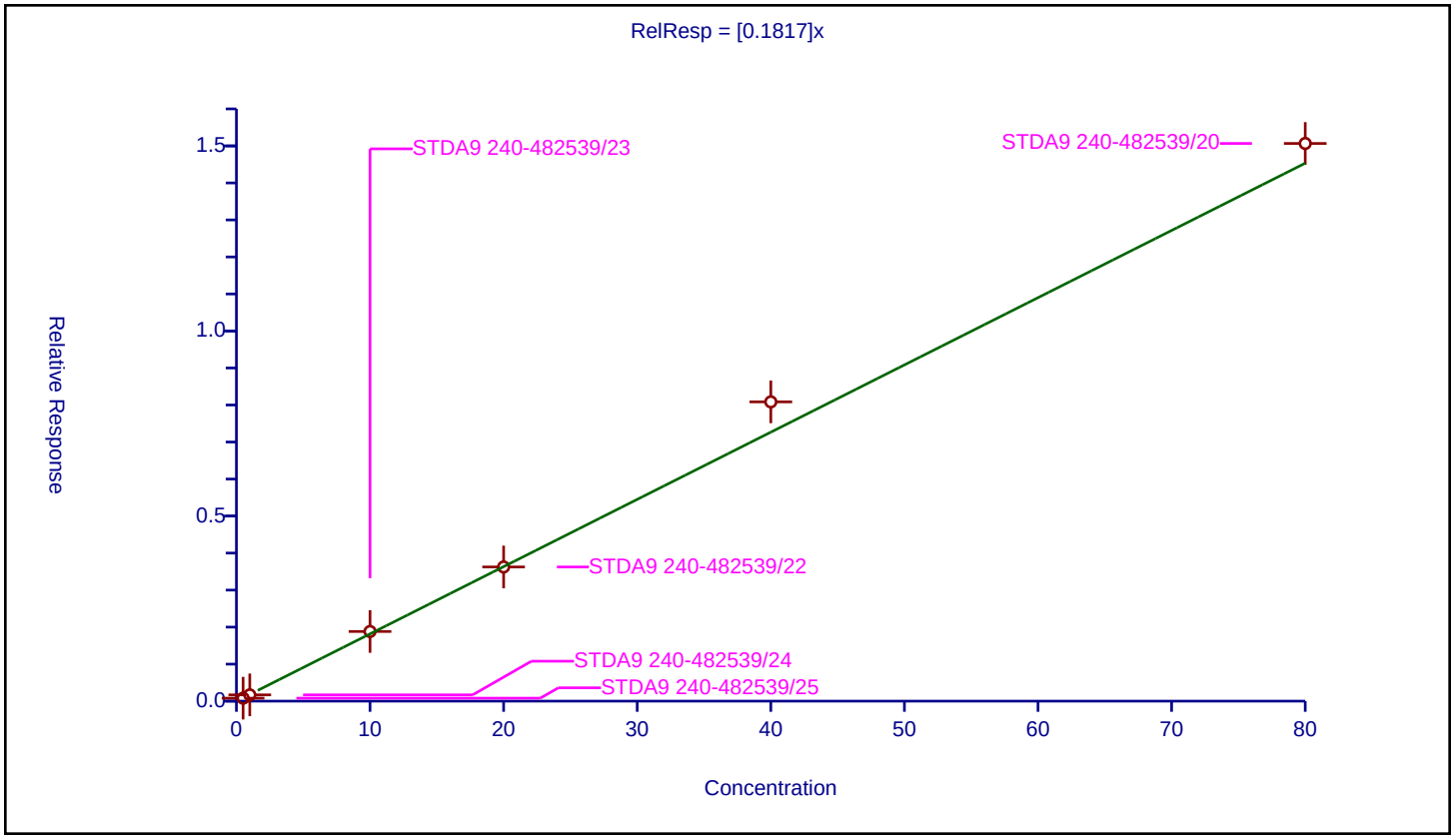
Curve Coefficients

Intercept:	0
Slope:	0.1817

Error Coefficients

Standard Error:	601000
Relative Standard Error:	8.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.080348	20.0	1077059.0	0.160697	Y
2	STDA9 240-482539/24	1.0	0.169439	20.0	1087941.0	0.169439	Y
3	STDA9 240-482539/23	10.0	1.88161	20.0	1186994.0	0.188161	Y
4	STDA9 240-482539/22	20.0	3.624493	20.0	1269739.0	0.181225	Y
5	STDA9 240-482539/21	40.0	8.084923	20.0	1395855.0	0.202123	Y
6	STDA9 240-482539/20	80.0	15.066271	20.0	1584023.0	0.188328	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

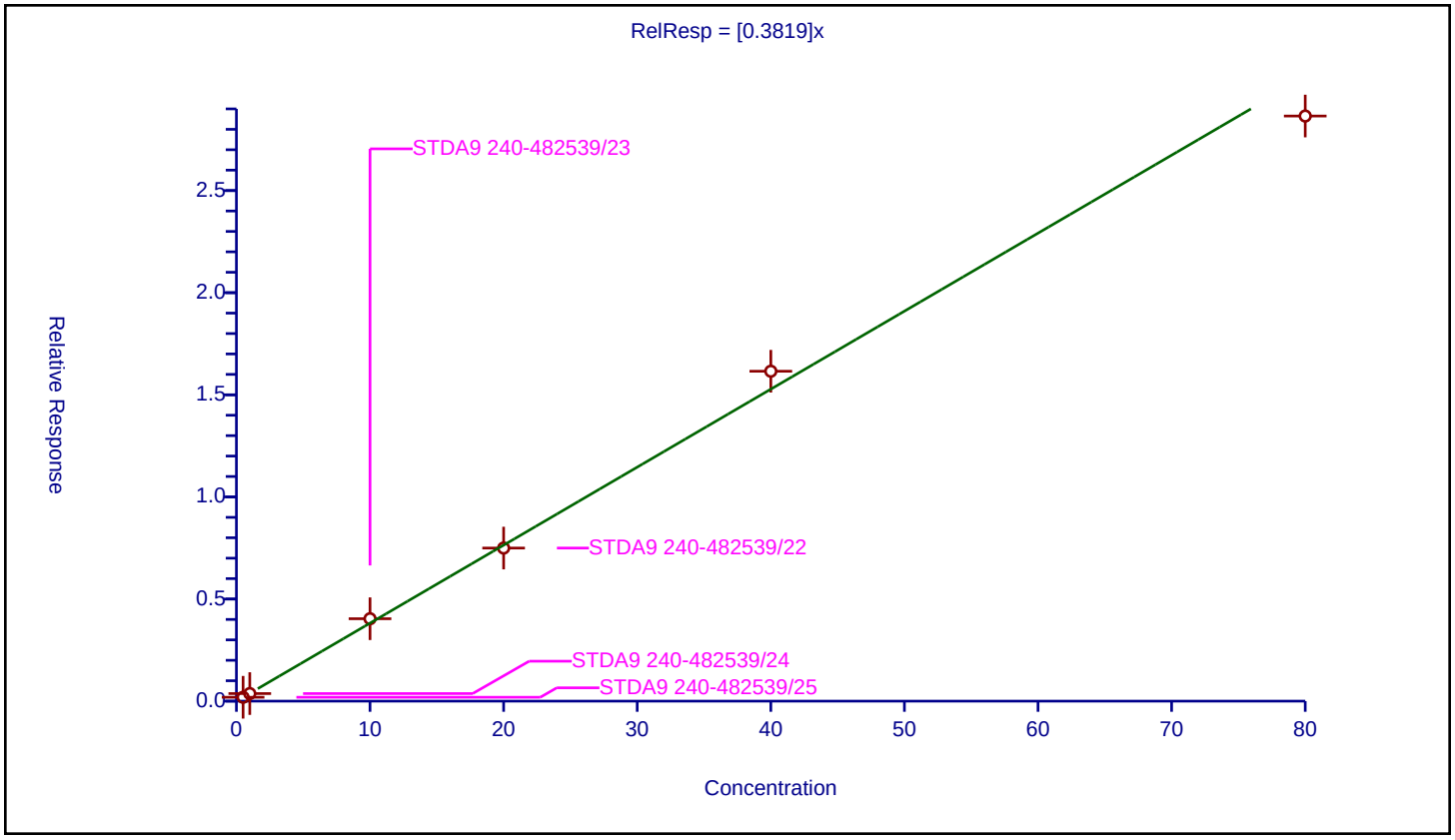
Curve Coefficients

Intercept:	0
Slope:	0.3819

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.190315	20.0	1077059.0	0.380629	Y
2	STDA9 240-482539/24	1.0	0.37048	20.0	1087941.0	0.37048	Y
3	STDA9 240-482539/23	10.0	4.035235	20.0	1186994.0	0.403524	Y
4	STDA9 240-482539/22	20.0	7.495761	20.0	1269739.0	0.374788	Y
5	STDA9 240-482539/21	40.0	16.154328	20.0	1395855.0	0.403858	Y
6	STDA9 240-482539/20	80.0	28.650304	20.0	1584023.0	0.358129	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

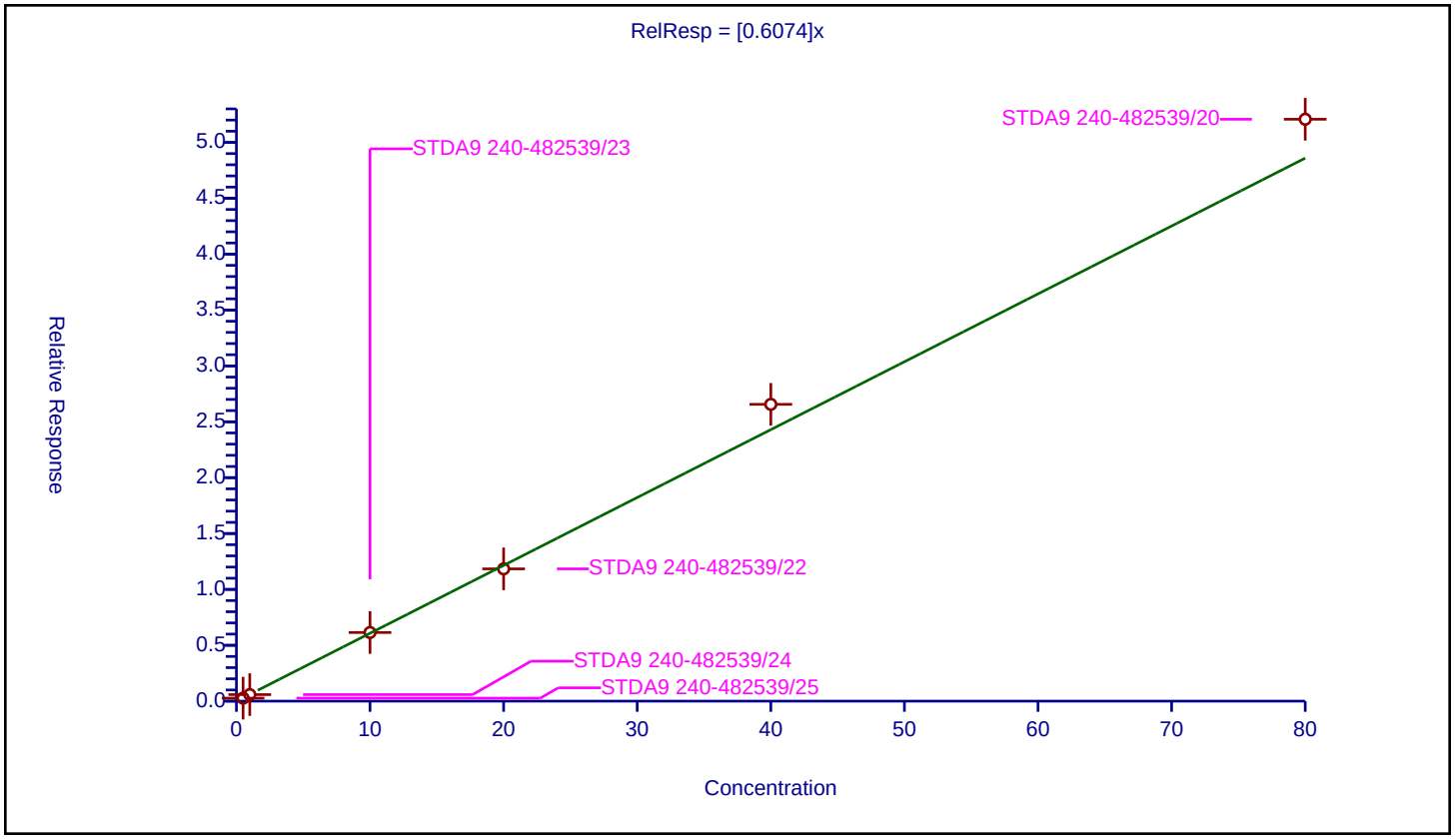
Curve Coefficients

Intercept:	0
Slope:	0.6074

Error Coefficients

Standard Error:	2060000
Relative Standard Error:	7.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.26914	20.0	1077059.0	0.538281	Y
2	STDA9 240-482539/24	1.0	0.585032	20.0	1087941.0	0.585032	Y
3	STDA9 240-482539/23	10.0	6.143418	20.0	1186994.0	0.614342	Y
4	STDA9 240-482539/22	20.0	11.837315	20.0	1269739.0	0.591866	Y
5	STDA9 240-482539/21	40.0	26.559449	20.0	1395855.0	0.663986	Y
6	STDA9 240-482539/20	80.0	52.071769	20.0	1584023.0	0.650897	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

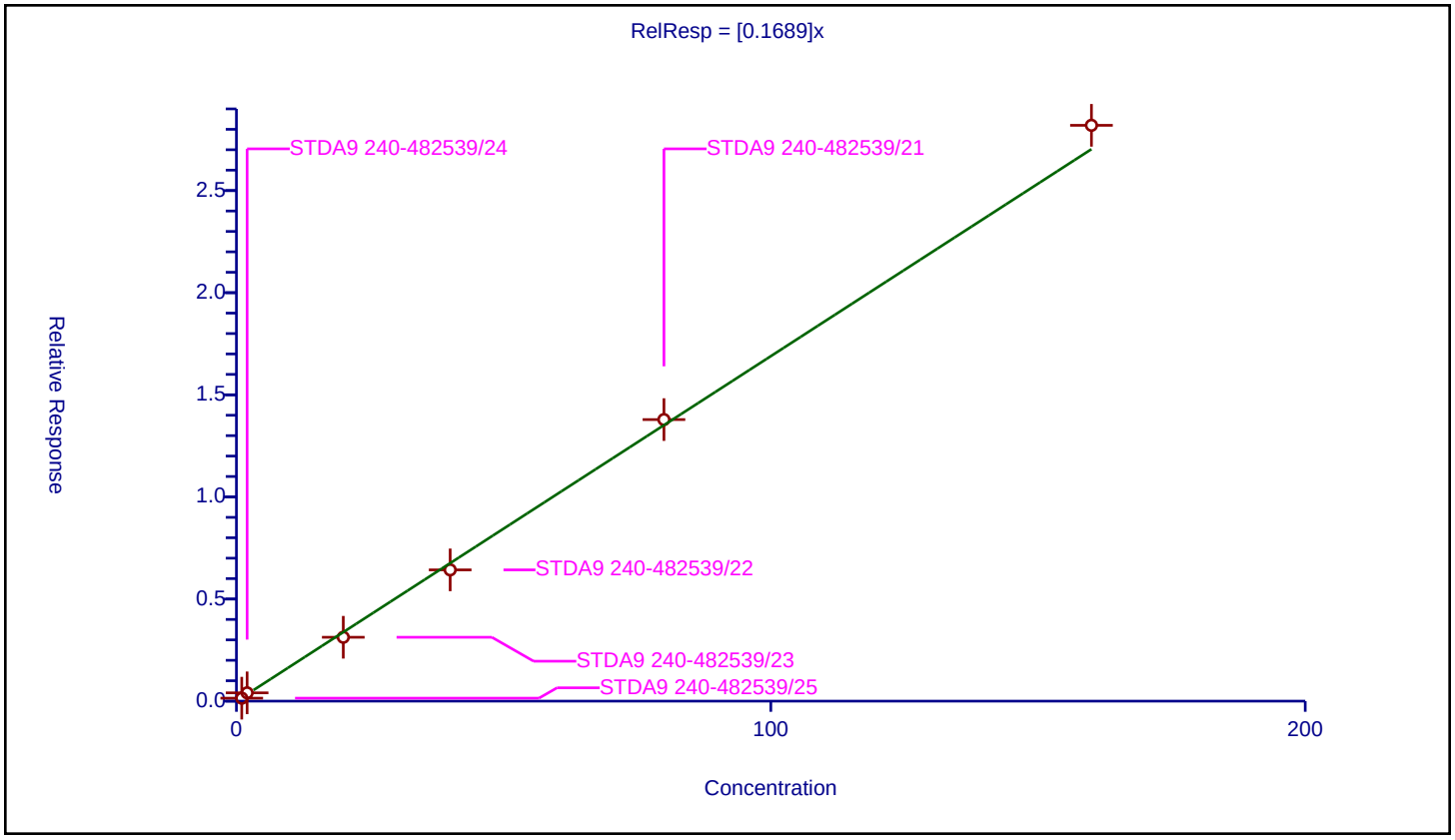
Curve Coefficients

Intercept:	0
Slope:	0.1689

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	11.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	1.0	0.145062	20.0	1077059.0	0.145062	Y
2	STDA9 240-482539/24	2.0	0.405665	20.0	1087941.0	0.202833	Y
3	STDA9 240-482539/23	20.0	3.1278	20.0	1186994.0	0.15639	Y
4	STDA9 240-482539/22	40.0	6.427148	20.0	1269739.0	0.160679	Y
5	STDA9 240-482539/21	80.0	13.78732	20.0	1395855.0	0.172342	Y
6	STDA9 240-482539/20	160.0	28.194805	20.0	1584023.0	0.176218	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

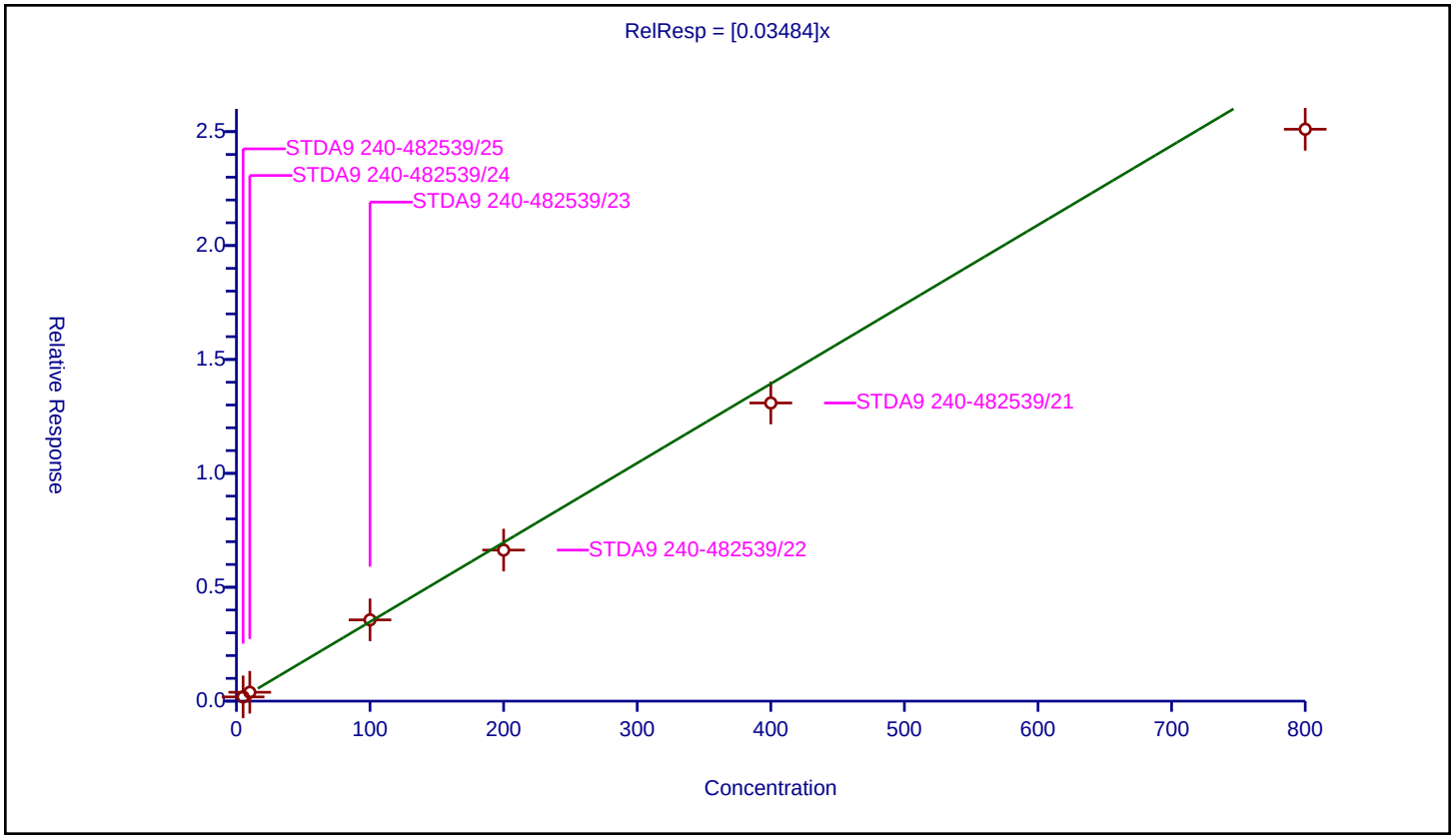
Curve Coefficients

Intercept:	0
Slope:	0.03484

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	5.0	0.185524	20.0	1077059.0	0.037105	Y
2	STDA9 240-482539/24	10.0	0.389745	20.0	1087941.0	0.038975	Y
3	STDA9 240-482539/23	100.0	3.568342	20.0	1186994.0	0.035683	Y
4	STDA9 240-482539/22	200.0	6.630906	20.0	1269739.0	0.033155	Y
5	STDA9 240-482539/21	400.0	13.089569	20.0	1395855.0	0.032724	Y
6	STDA9 240-482539/20	800.0	25.106643	20.0	1584023.0	0.031383	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

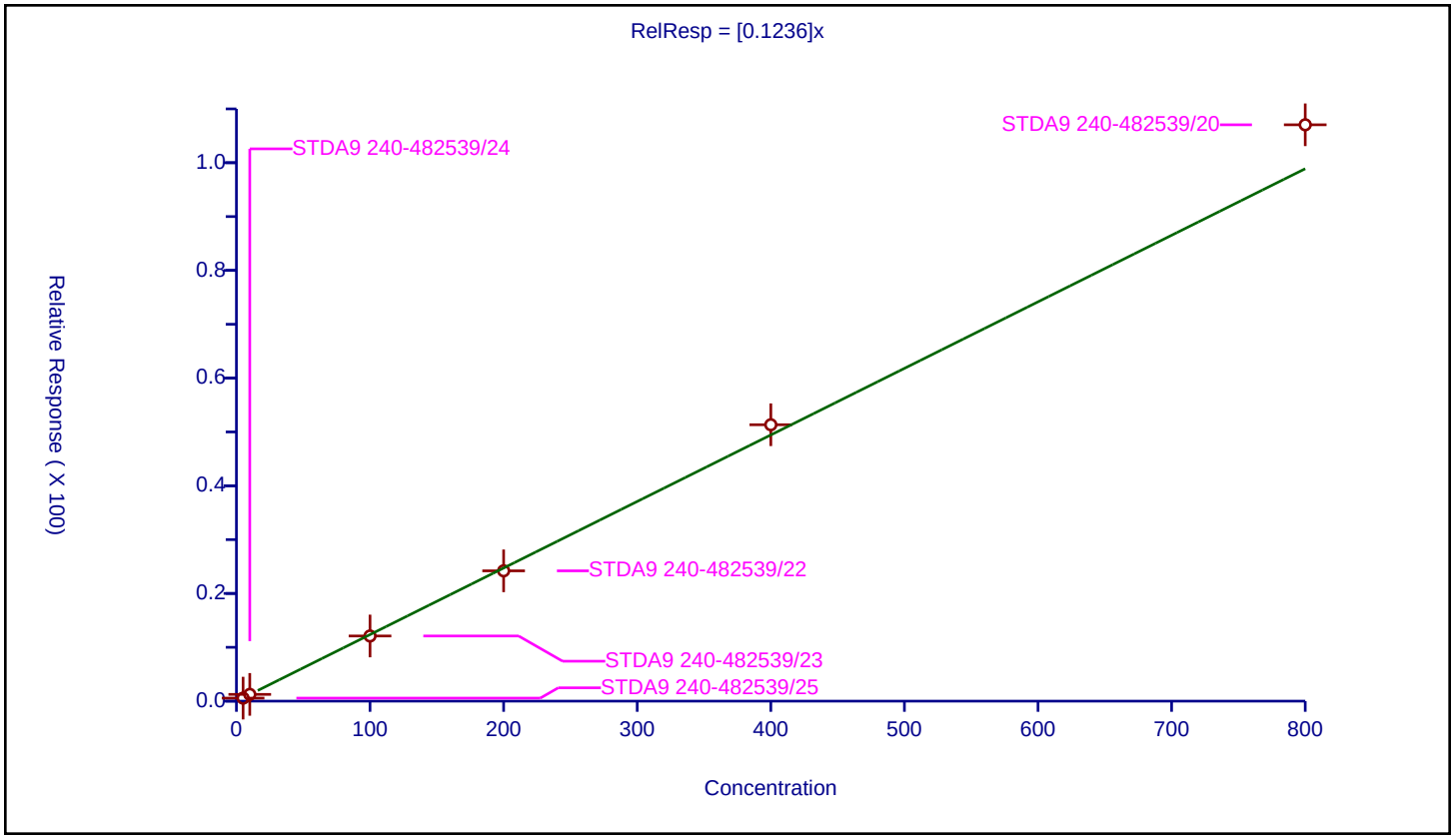
Curve Coefficients

Intercept:	0
Slope:	0.1236

Error Coefficients

Standard Error:	4190000
Relative Standard Error:	6.0
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	5.0	0.561362	20.0	1077059.0	0.112272	Y
2	STDA9 240-482539/24	10.0	1.251796	20.0	1087941.0	0.12518	Y
3	STDA9 240-482539/23	100.0	12.104661	20.0	1186994.0	0.121047	Y
4	STDA9 240-482539/22	200.0	24.201068	20.0	1269739.0	0.121005	Y
5	STDA9 240-482539/21	400.0	51.333527	20.0	1395855.0	0.128334	Y
6	STDA9 240-482539/20	800.0	107.045769	20.0	1584023.0	0.133807	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

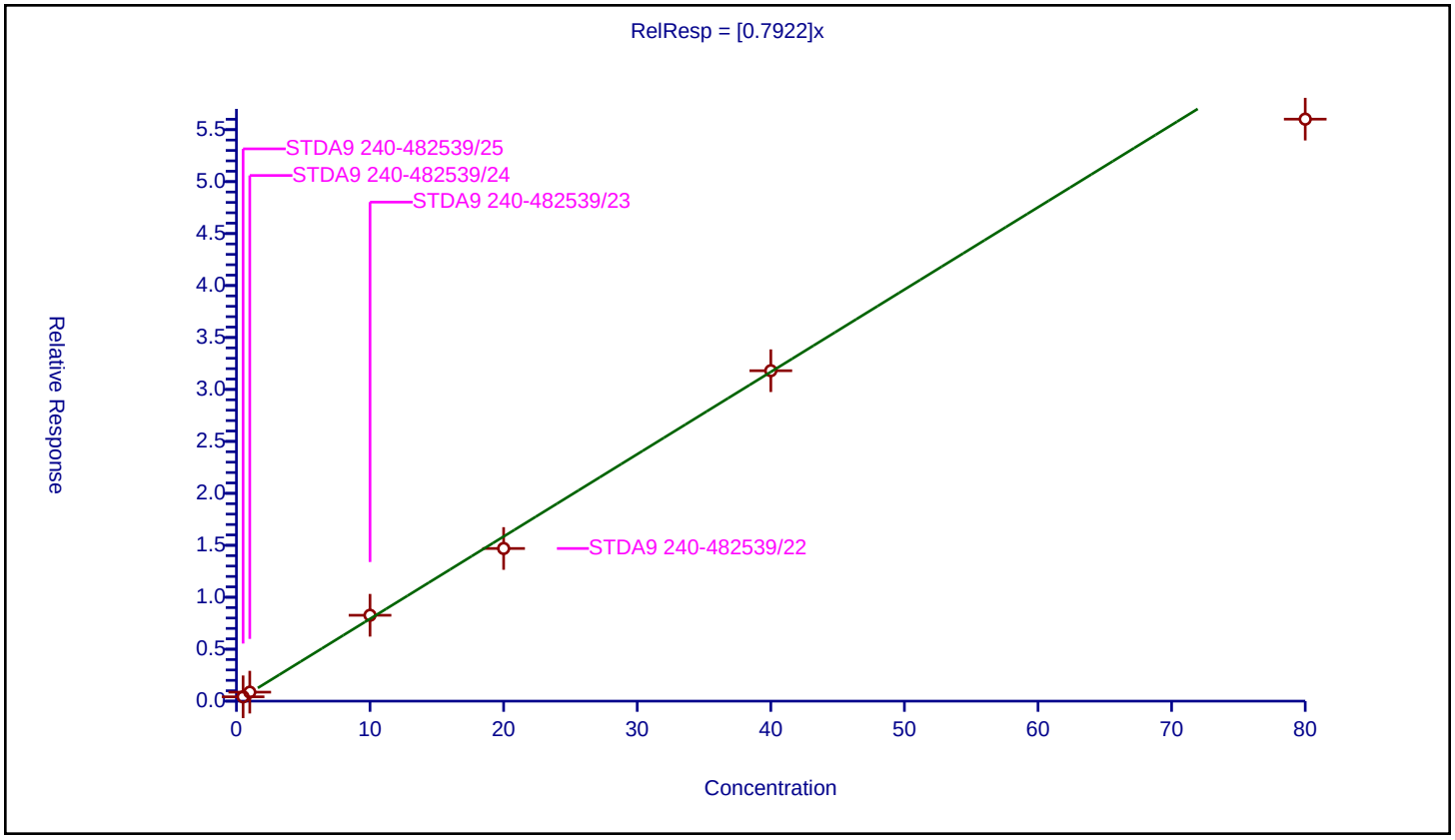
Curve Coefficients

Intercept:	0
Slope:	0.7922

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.416375	20.0	1077059.0	0.832749	Y
2	STDA9 240-482539/24	1.0	0.863962	20.0	1087941.0	0.863962	Y
3	STDA9 240-482539/23	10.0	8.264524	20.0	1186994.0	0.826452	Y
4	STDA9 240-482539/22	20.0	14.692673	20.0	1269739.0	0.734634	Y
5	STDA9 240-482539/21	40.0	31.802057	20.0	1395855.0	0.795051	Y
6	STDA9 240-482539/20	80.0	56.012949	20.0	1584023.0	0.700162	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

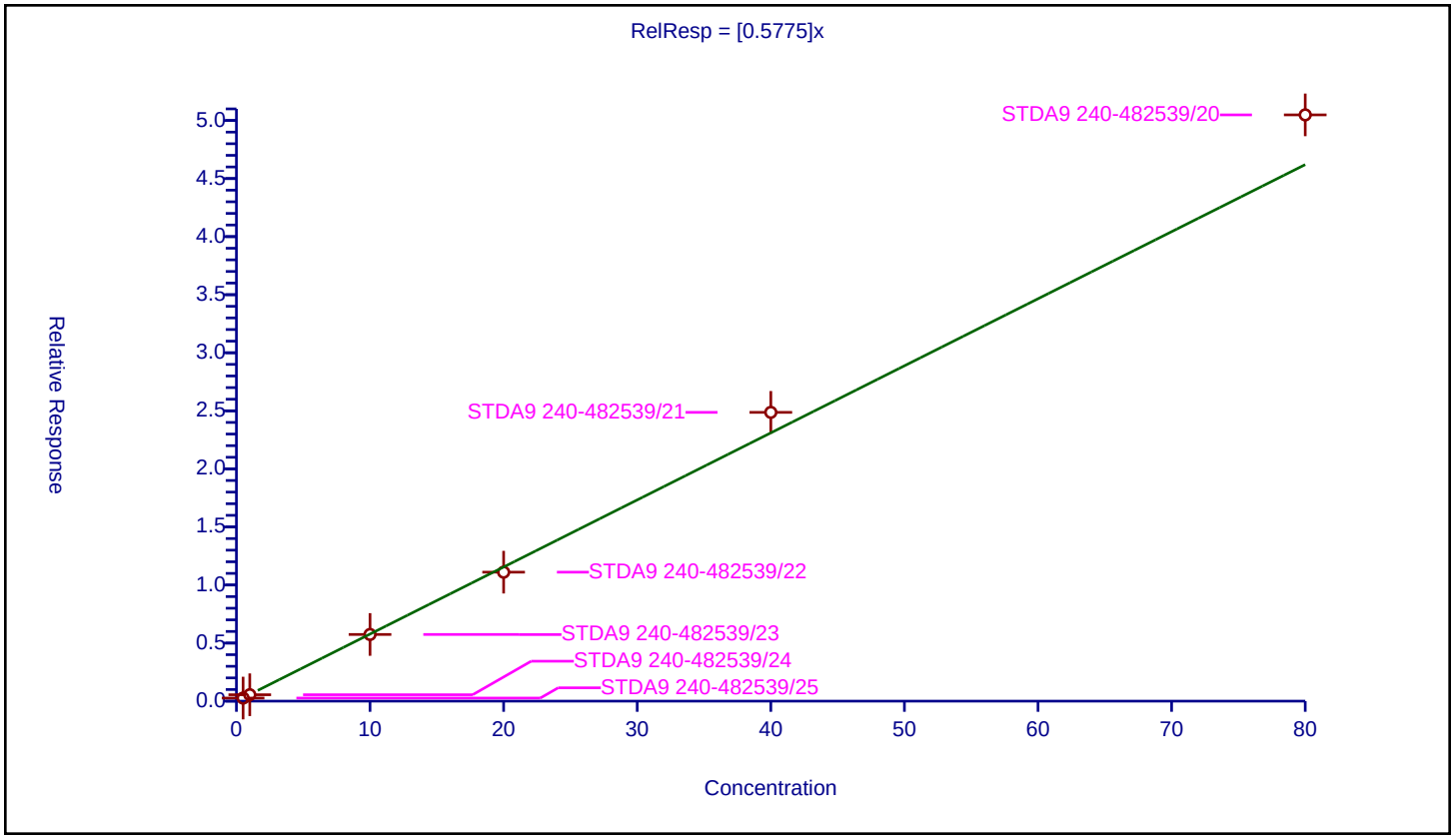
Curve Coefficients

Intercept:	0
Slope:	0.5775

Error Coefficients

Standard Error:	1980000
Relative Standard Error:	7.0
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.265501	20.0	1077059.0	0.531002	Y
2	STDA9 240-482539/24	1.0	0.551905	20.0	1087941.0	0.551905	Y
3	STDA9 240-482539/23	10.0	5.741899	20.0	1186994.0	0.57419	Y
4	STDA9 240-482539/22	20.0	11.105904	20.0	1269739.0	0.555295	Y
5	STDA9 240-482539/21	40.0	24.868113	20.0	1395855.0	0.621703	Y
6	STDA9 240-482539/20	80.0	50.484406	20.0	1584023.0	0.631055	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

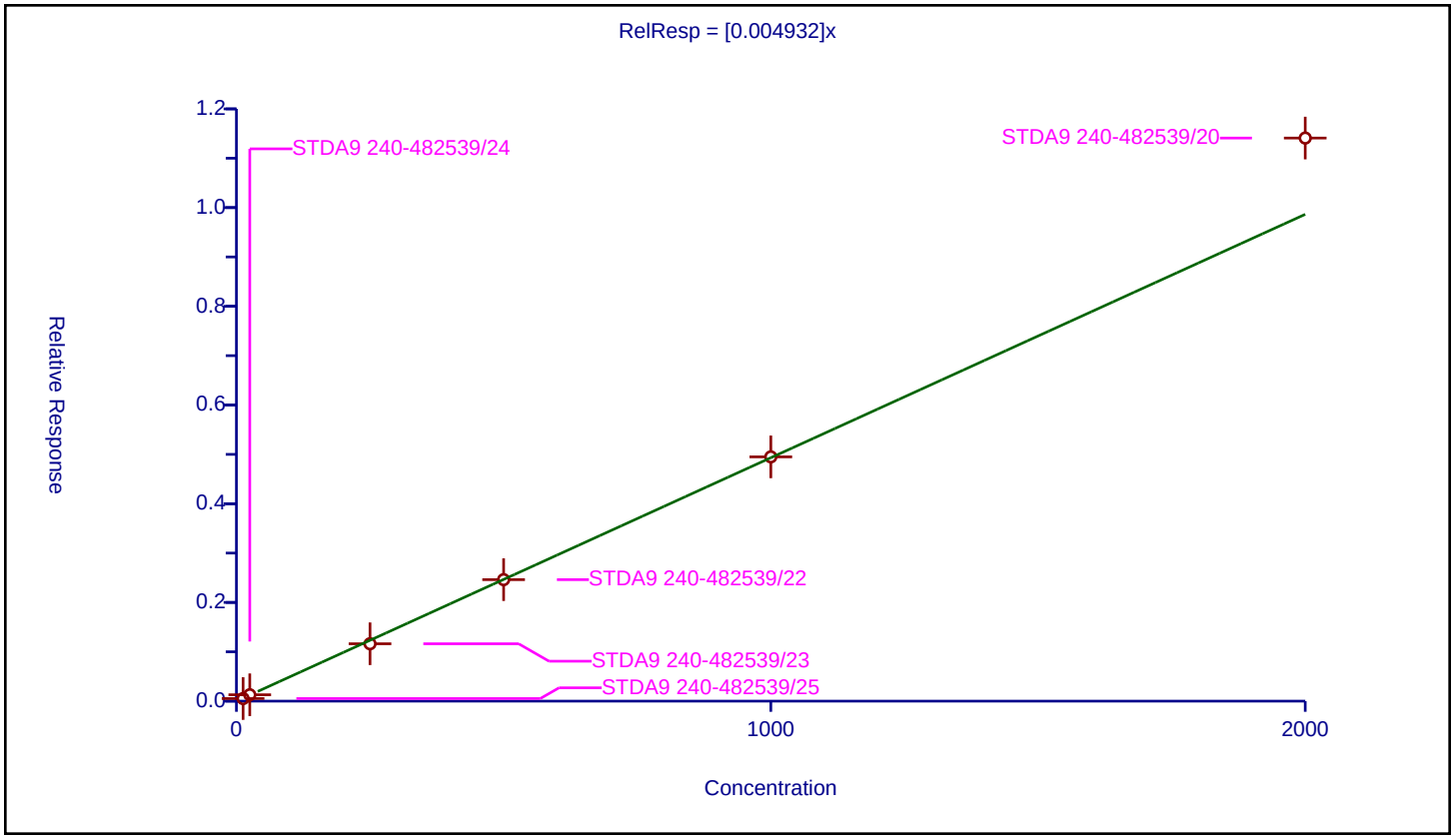
Curve Coefficients

Intercept:	0
Slope:	0.004932

Error Coefficients

Standard Error:	439000
Relative Standard Error:	10.2
Correlation Coefficient:	0.984
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	12.5	0.052439	20.0	1077059.0	0.004195	Y
2	STDA9 240-482539/24	25.0	0.12918	20.0	1087941.0	0.005167	Y
3	STDA9 240-482539/23	250.0	1.162651	20.0	1186994.0	0.004651	Y
4	STDA9 240-482539/22	500.0	2.461829	20.0	1269739.0	0.004924	Y
5	STDA9 240-482539/21	1000.0	4.949268	20.0	1395855.0	0.004949	Y
6	STDA9 240-482539/20	2000.0	11.409014	20.0	1584023.0	0.005705	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

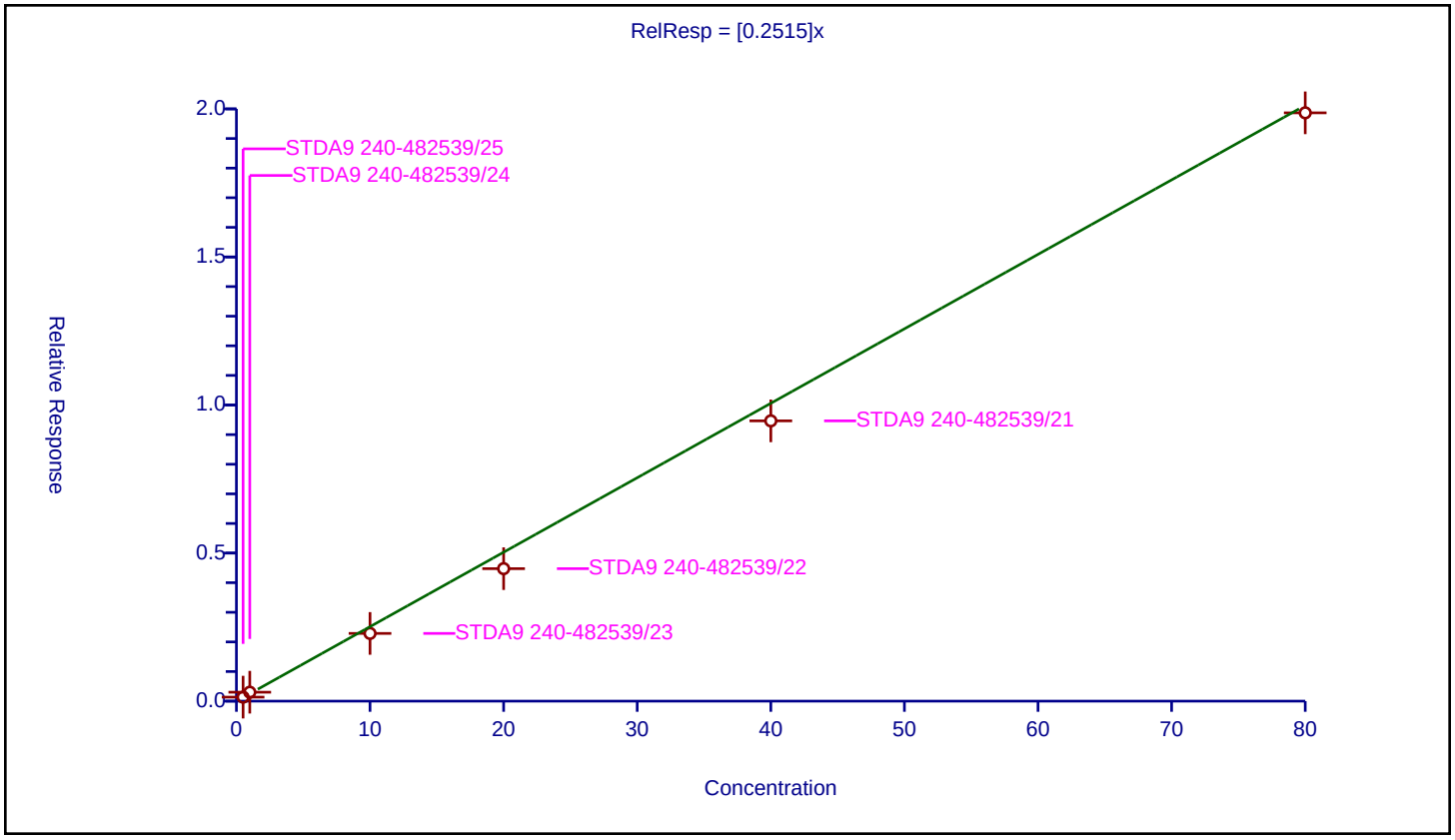
Curve Coefficients

Intercept:	0
Slope:	0.2515

Error Coefficients

Standard Error:	776000
Relative Standard Error:	11.7
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.134942	20.0	1077059.0	0.269883	Y
2	STDA9 240-482539/24	1.0	0.301487	20.0	1087941.0	0.301487	Y
3	STDA9 240-482539/23	10.0	2.287156	20.0	1186994.0	0.228716	Y
4	STDA9 240-482539/22	20.0	4.473975	20.0	1269739.0	0.223699	Y
5	STDA9 240-482539/21	40.0	9.46478	20.0	1395855.0	0.236619	Y
6	STDA9 240-482539/20	80.0	19.866631	20.0	1584023.0	0.248333	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

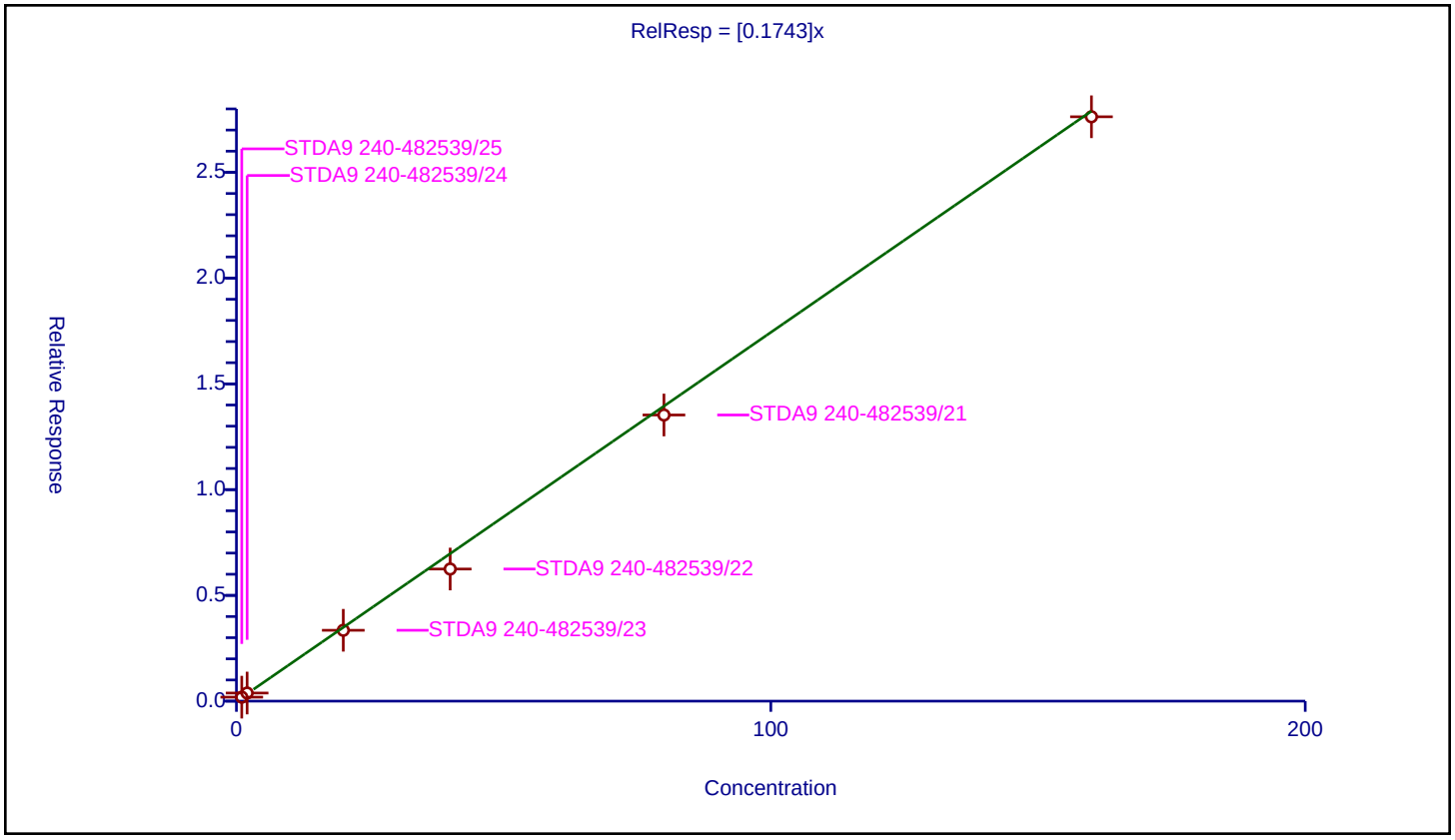
Curve Coefficients

Intercept:	0
Slope:	0.1743

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	7.8
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	1.0	0.188773	20.0	1077059.0	0.188773	Y
2	STDA9 240-482539/24	2.0	0.383661	20.0	1087941.0	0.19183	Y
3	STDA9 240-482539/23	20.0	3.35048	20.0	1186994.0	0.167524	Y
4	STDA9 240-482539/22	40.0	6.246386	20.0	1269739.0	0.15616	Y
5	STDA9 240-482539/21	80.0	13.527752	20.0	1395855.0	0.169097	Y
6	STDA9 240-482539/20	160.0	27.627402	20.0	1584023.0	0.172671	Y



Calibration / 2-Nitropropane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

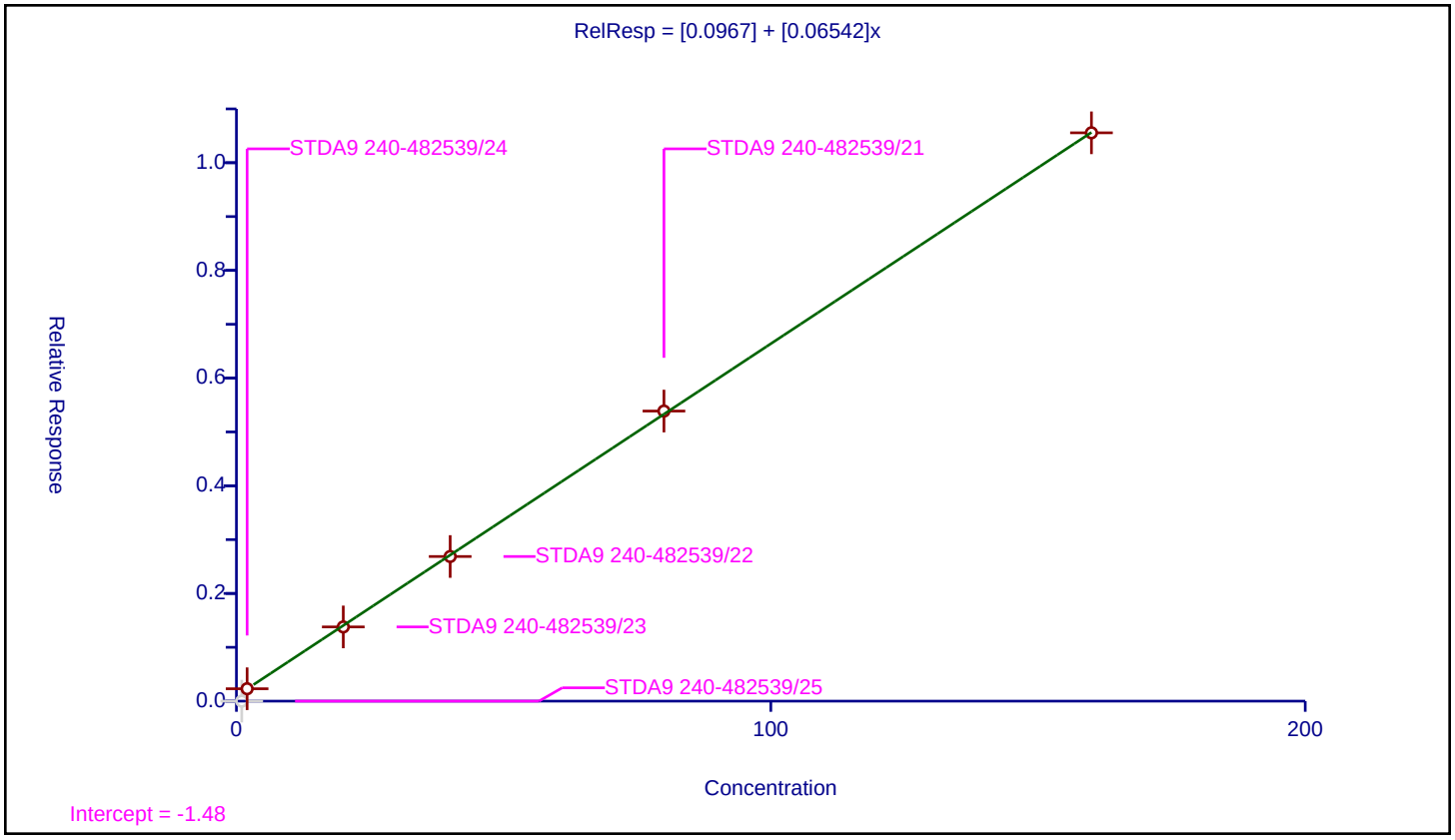
Curve Coefficients

Intercept:	0.0967
Slope:	0.06542

Error Coefficients

Standard Error:	540000
Relative Standard Error:	1.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	1.0	0.0	20.0	1077059.0	0.0	N
2	STDA9 240-482539/24	2.0	0.23016	20.0	1087941.0	0.11508	Y
3	STDA9 240-482539/23	20.0	1.378608	20.0	1186994.0	0.06893	Y
4	STDA9 240-482539/22	40.0	2.686426	20.0	1269739.0	0.067161	Y
5	STDA9 240-482539/21	80.0	5.387737	20.0	1395855.0	0.067347	Y
6	STDA9 240-482539/20	160.0	10.555983	20.0	1584023.0	0.065975	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

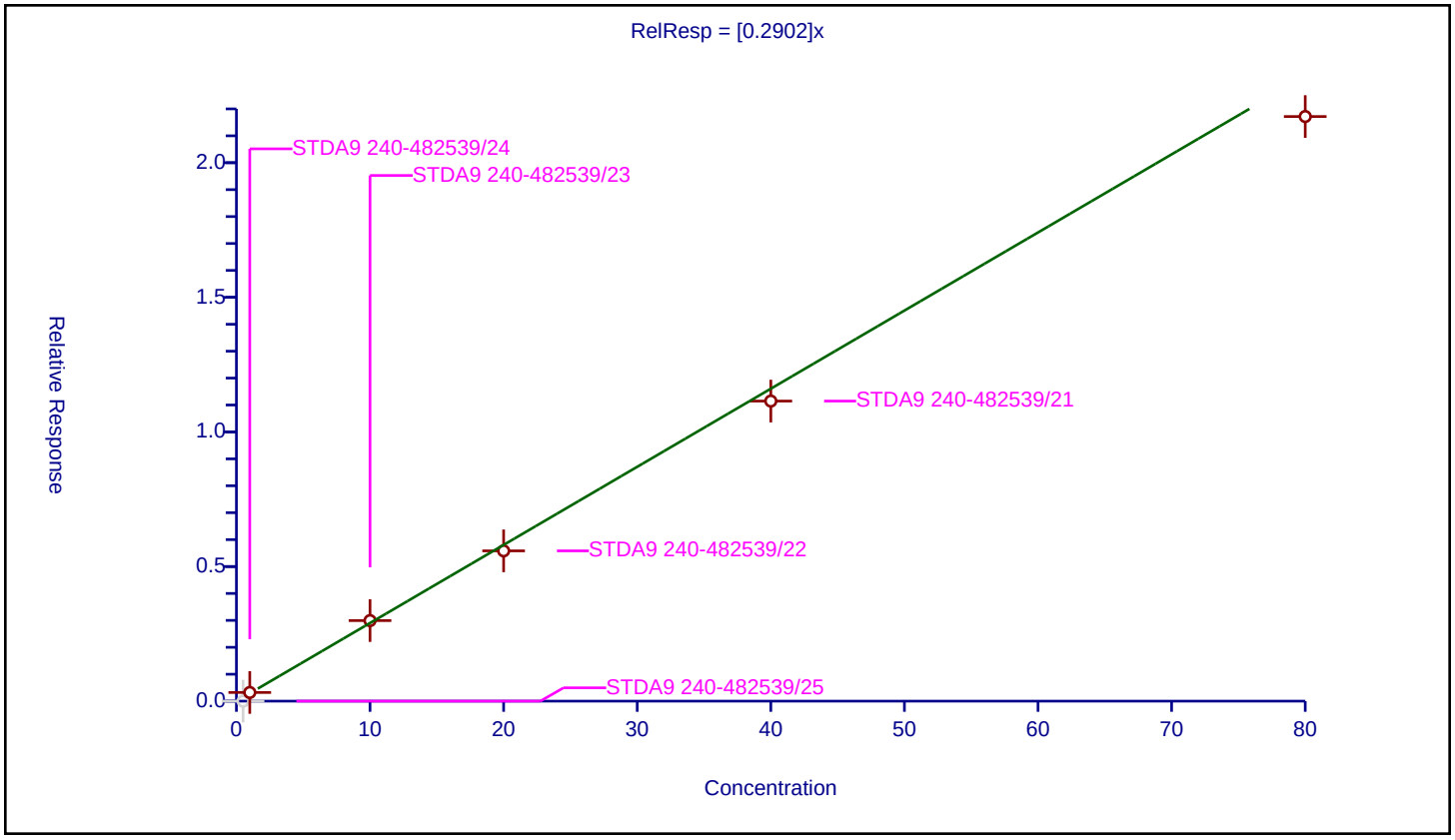
Curve Coefficients

Intercept:	0
Slope:	0.2902

Error Coefficients

Standard Error:	964000
Relative Standard Error:	7.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.0	20.0	1077059.0	0.0	N
2	STDA9 240-482539/24	1.0	0.322297	20.0	1087941.0	0.322297	Y
3	STDA9 240-482539/23	10.0	2.992147	20.0	1186994.0	0.299215	Y
4	STDA9 240-482539/22	20.0	5.582502	20.0	1269739.0	0.279125	Y
5	STDA9 240-482539/21	40.0	11.146573	20.0	1395855.0	0.278664	Y
6	STDA9 240-482539/20	80.0	21.716074	20.0	1584023.0	0.271451	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

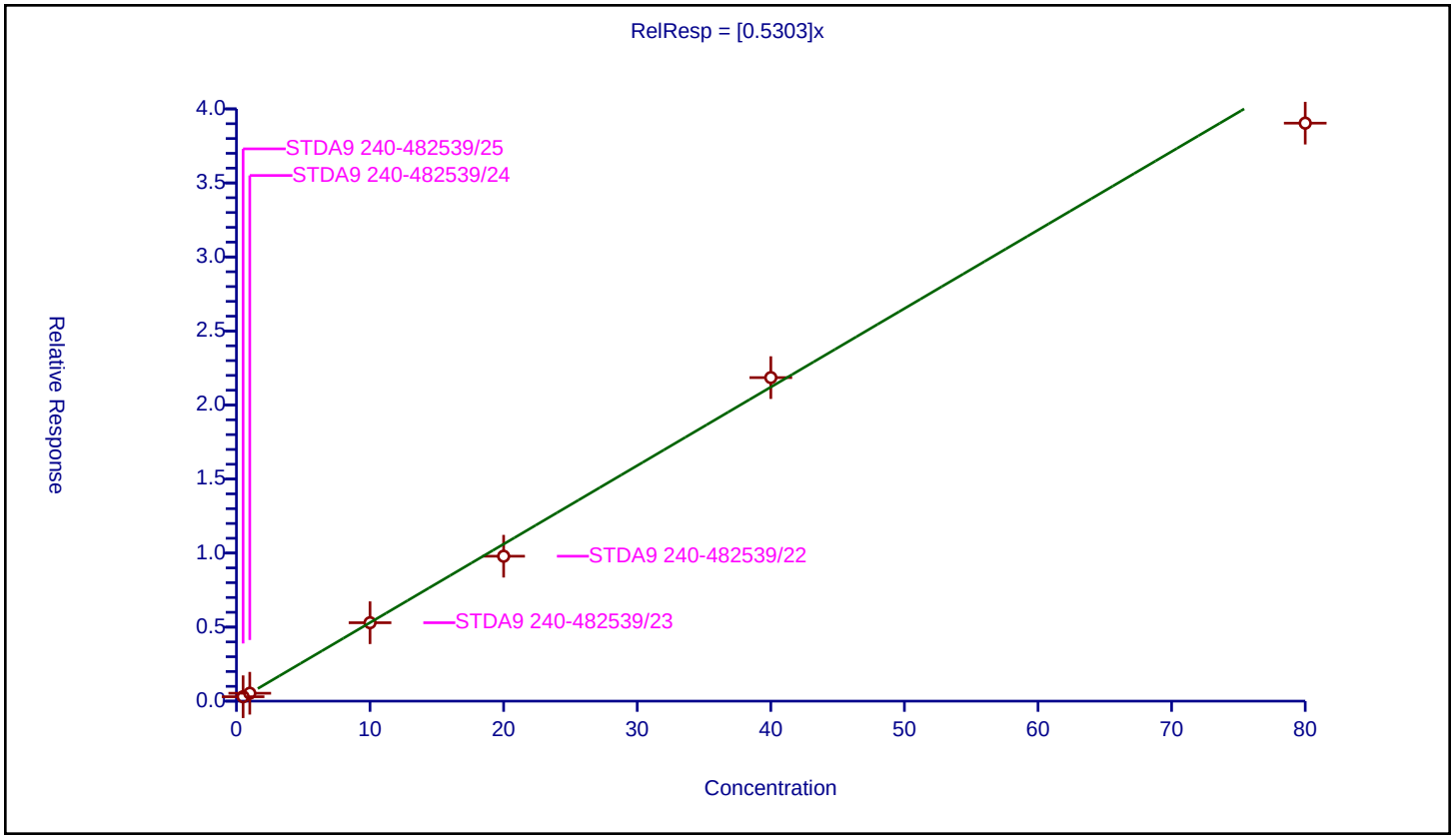
Curve Coefficients

Intercept:	0
Slope:	0.5303

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.297363	20.0	944637.0	0.594726	Y
2	STDA9 240-482539/24	1.0	0.533704	20.0	946330.0	0.533704	Y
3	STDA9 240-482539/23	10.0	5.296464	20.0	969326.0	0.529646	Y
4	STDA9 240-482539/22	20.0	9.788369	20.0	1000281.0	0.489418	Y
5	STDA9 240-482539/21	40.0	21.851137	20.0	1041684.0	0.546278	Y
6	STDA9 240-482539/20	80.0	39.037116	20.0	1151063.0	0.487964	Y



Calibration / Cyclohexanone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

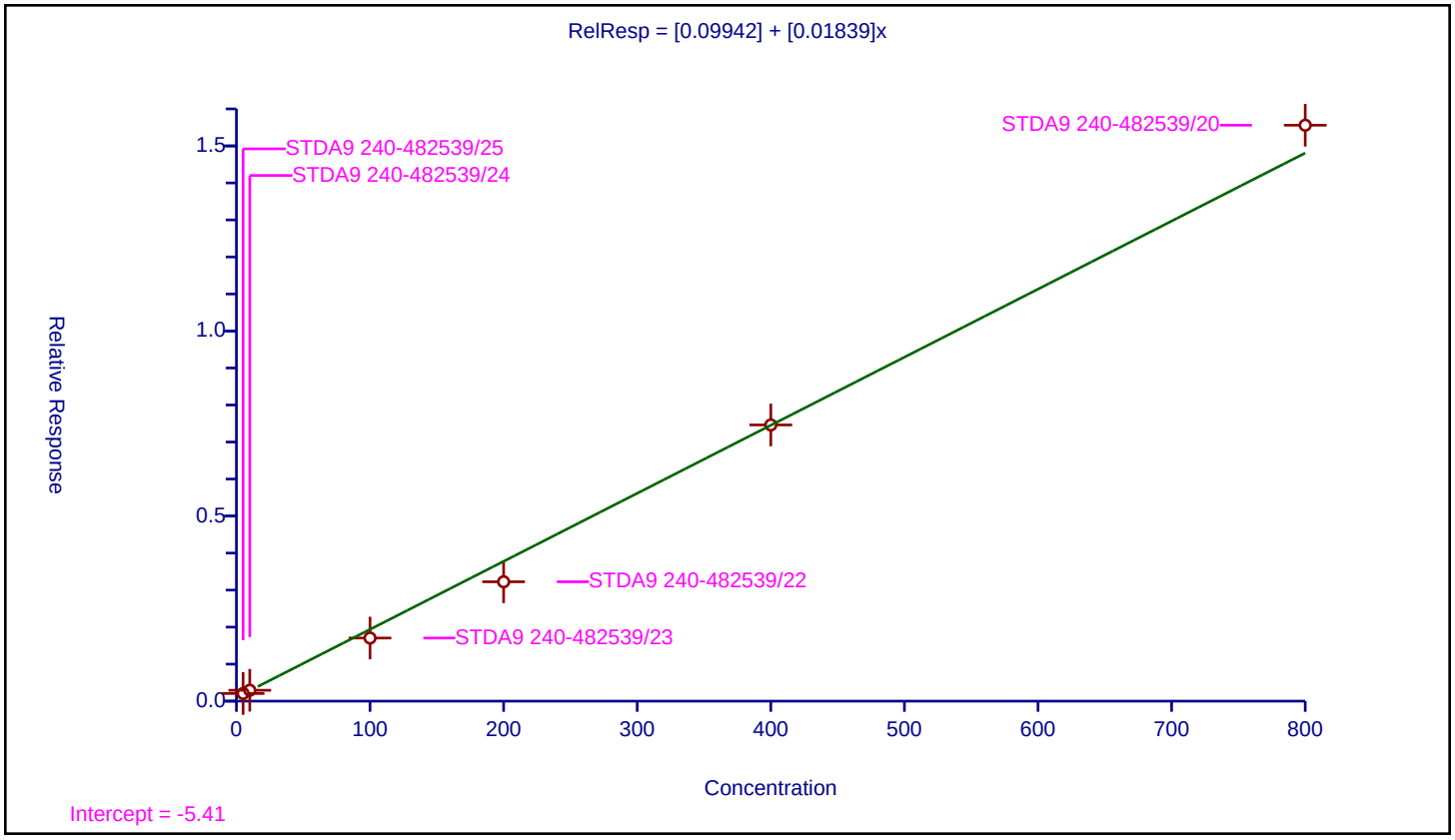
Curve Coefficients

Intercept:	0.09942
Slope:	0.01839

Error Coefficients

Standard Error:	256000
Relative Standard Error:	13.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	5.0	0.206677	20.0	536296.0	0.041335	Y
2	STDA9 240-482539/24	10.0	0.293945	20.0	520505.0	0.029395	Y
3	STDA9 240-482539/23	100.0	1.704905	20.0	534763.0	0.017049	Y
4	STDA9 240-482539/22	200.0	3.224548	20.0	543363.0	0.016123	Y
5	STDA9 240-482539/21	400.0	7.462014	20.0	537769.0	0.018655	Y
6	STDA9 240-482539/20	800.0	15.558657	20.0	593262.0	0.019448	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

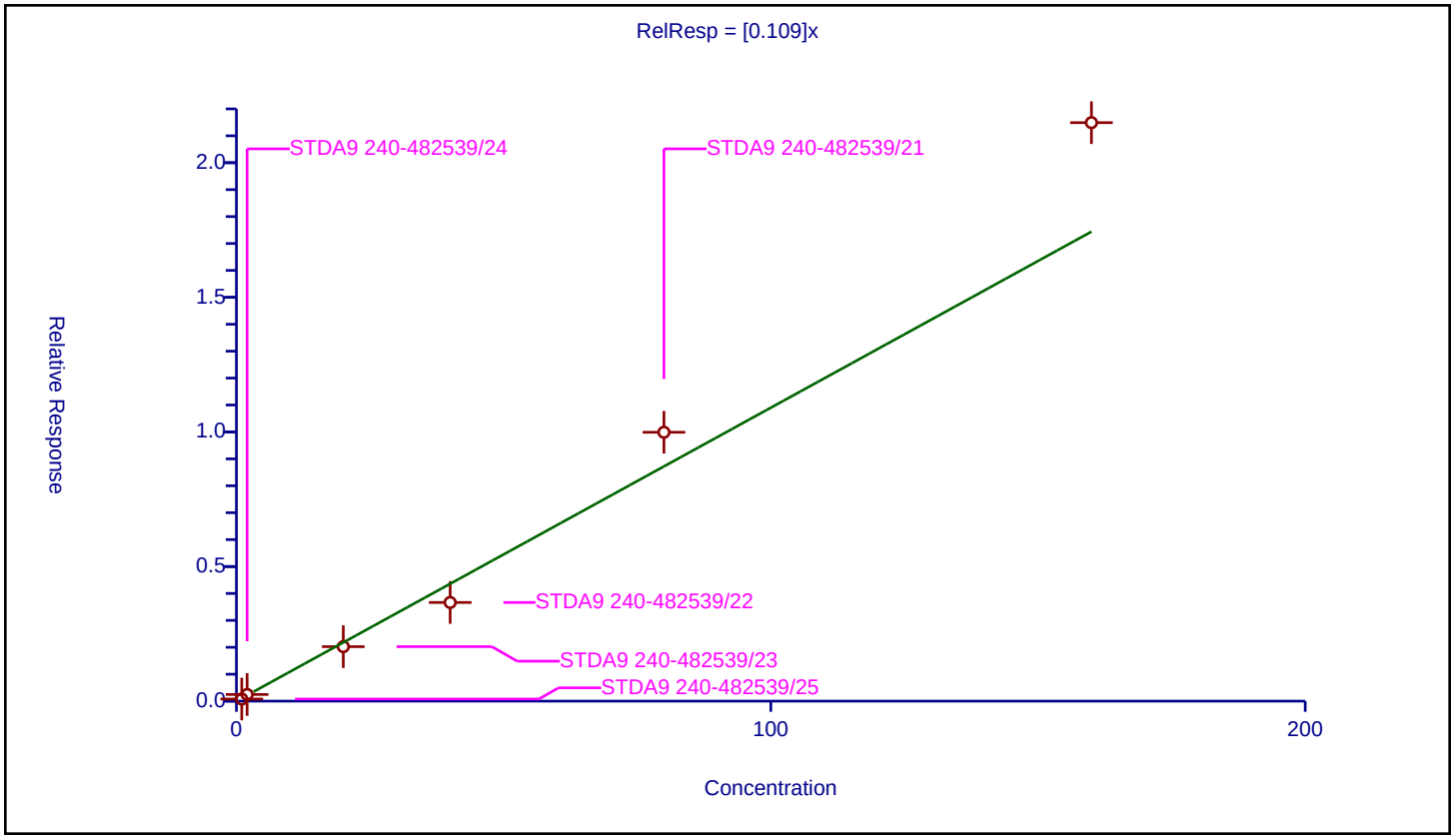
Curve Coefficients

Intercept:	0
Slope:	0.109

Error Coefficients

Standard Error:	607000
Relative Standard Error:	20.0
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.957

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	1.0	0.078591	20.0	944637.0	0.078591	Y
2	STDA9 240-482539/24	2.0	0.246785	20.0	946330.0	0.123392	Y
3	STDA9 240-482539/23	20.0	2.02419	20.0	969326.0	0.10121	Y
4	STDA9 240-482539/22	40.0	3.66487	20.0	1000281.0	0.091622	Y
5	STDA9 240-482539/21	80.0	9.988115	20.0	1041684.0	0.124851	Y
6	STDA9 240-482539/20	160.0	21.488954	20.0	1151063.0	0.134306	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

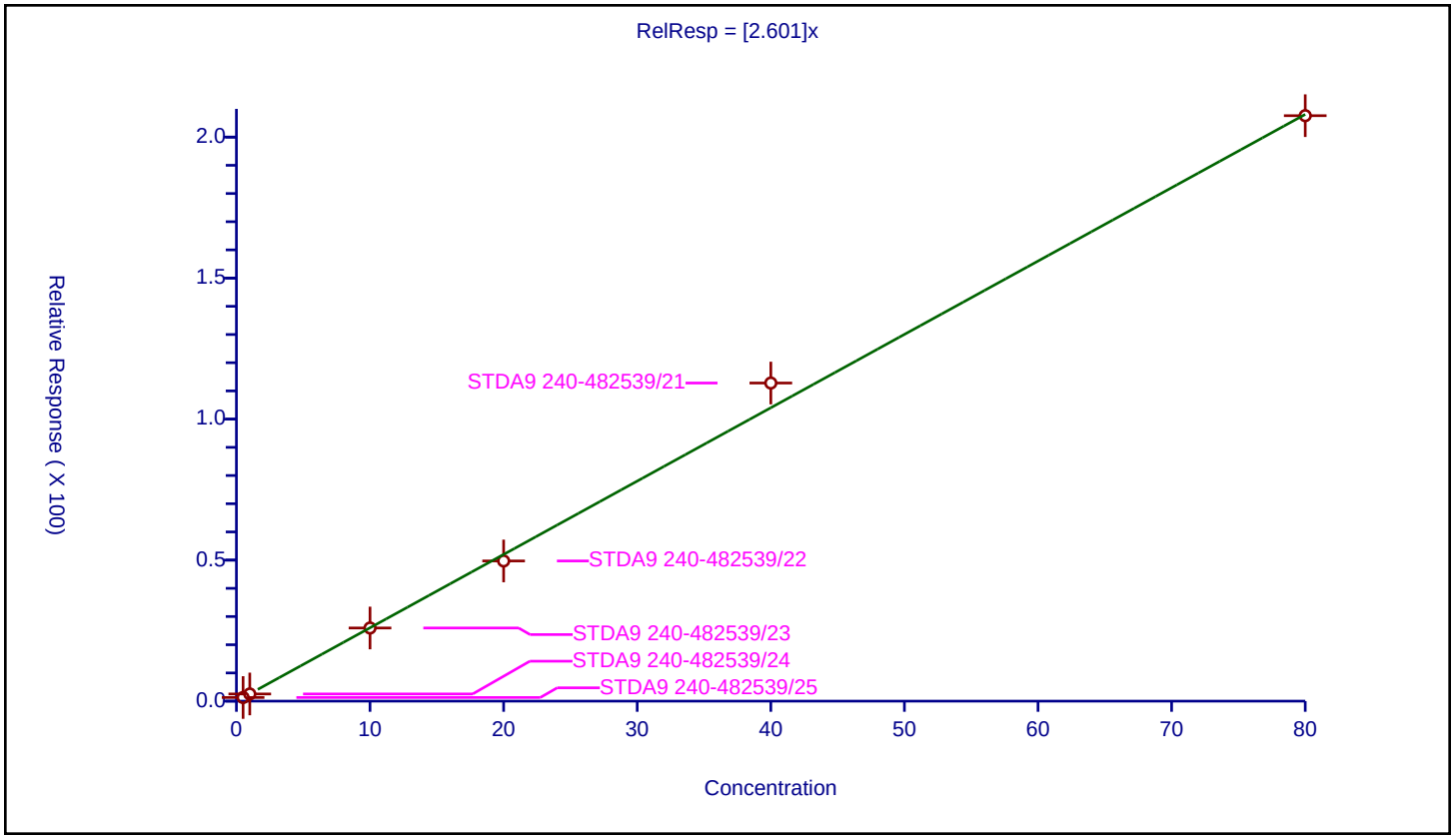
Curve Coefficients

Intercept:	0
Slope:	2.601

Error Coefficients

Standard Error:	3140000
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	STDA9 240-482539/25	0.5	1.284626	20.0	536296.0	2.569253	Y
2	STDA9 240-482539/24	1.0	2.54134	20.0	520505.0	2.54134	Y
3	STDA9 240-482539/23	10.0	25.935751	20.0	534763.0	2.593575	Y
4	STDA9 240-482539/22	20.0	49.707948	20.0	543363.0	2.485397	Y
5	STDA9 240-482539/21	40.0	112.789767	20.0	537769.0	2.819744	Y
6	STDA9 240-482539/20	80.0	207.593879	20.0	593262.0	2.594923	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

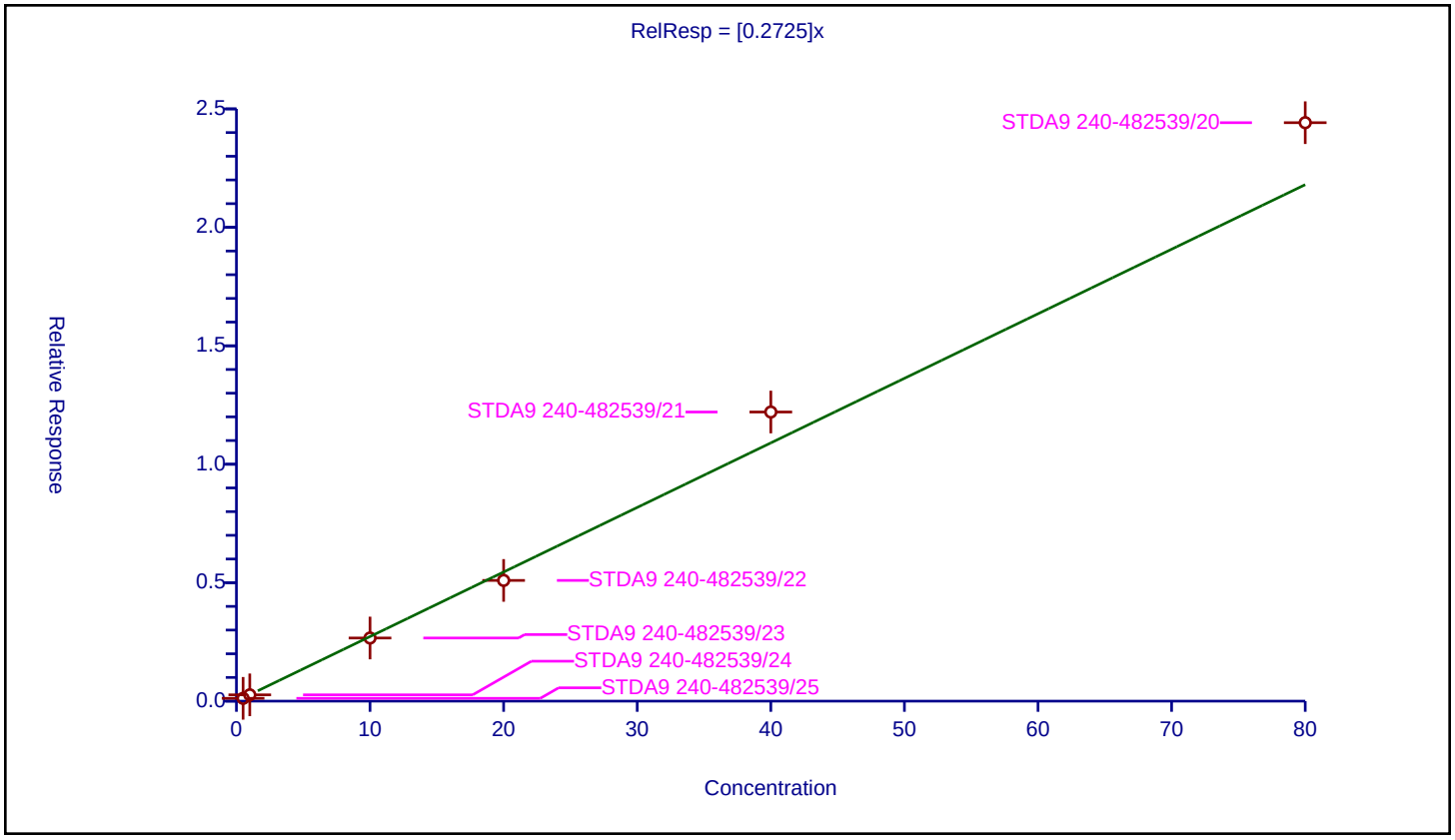
Curve Coefficients

Intercept:	0
Slope:	0.2725

Error Coefficients

Standard Error:	362000
Relative Standard Error:	10.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.119039	20.0	536296.0	0.238077	Y
2	STDA9 240-482539/24	1.0	0.265396	20.0	520505.0	0.265396	Y
3	STDA9 240-482539/23	10.0	2.66533	20.0	534763.0	0.266533	Y
4	STDA9 240-482539/22	20.0	5.095489	20.0	543363.0	0.254774	Y
5	STDA9 240-482539/21	40.0	12.205129	20.0	537769.0	0.305128	Y
6	STDA9 240-482539/20	80.0	24.417441	20.0	593262.0	0.305218	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

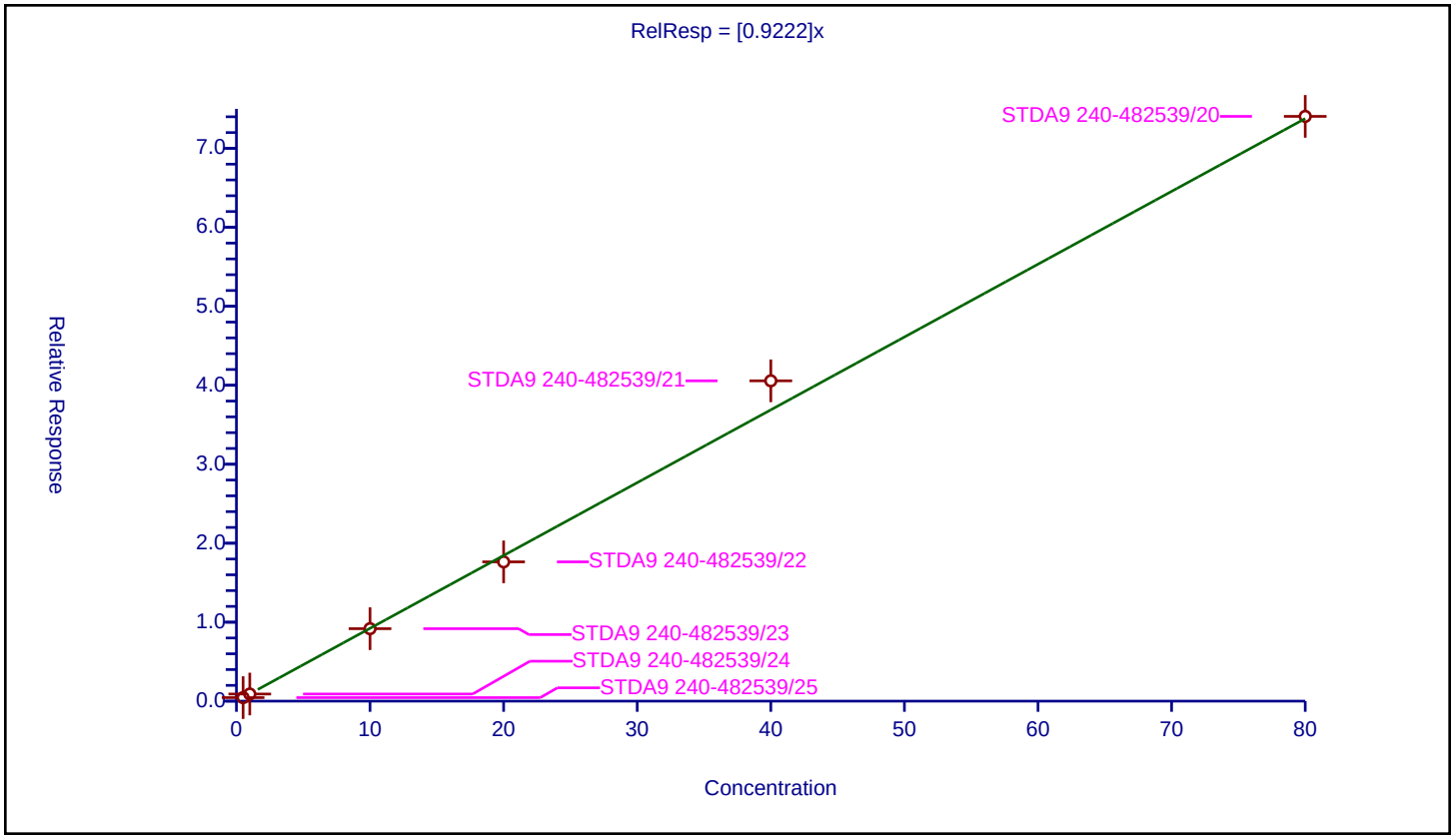
Curve Coefficients

Intercept:	0
Slope:	0.9222

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	0.5	0.446582	20.0	536296.0	0.893163	Y
2	STDA9 240-482539/24	1.0	0.900856	20.0	520505.0	0.900856	Y
3	STDA9 240-482539/23	10.0	9.176701	20.0	534763.0	0.91767	Y
4	STDA9 240-482539/22	20.0	17.636902	20.0	543363.0	0.881845	Y
5	STDA9 240-482539/21	40.0	40.56422	20.0	537769.0	1.014105	Y
6	STDA9 240-482539/20	80.0	74.051599	20.0	593262.0	0.925645	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

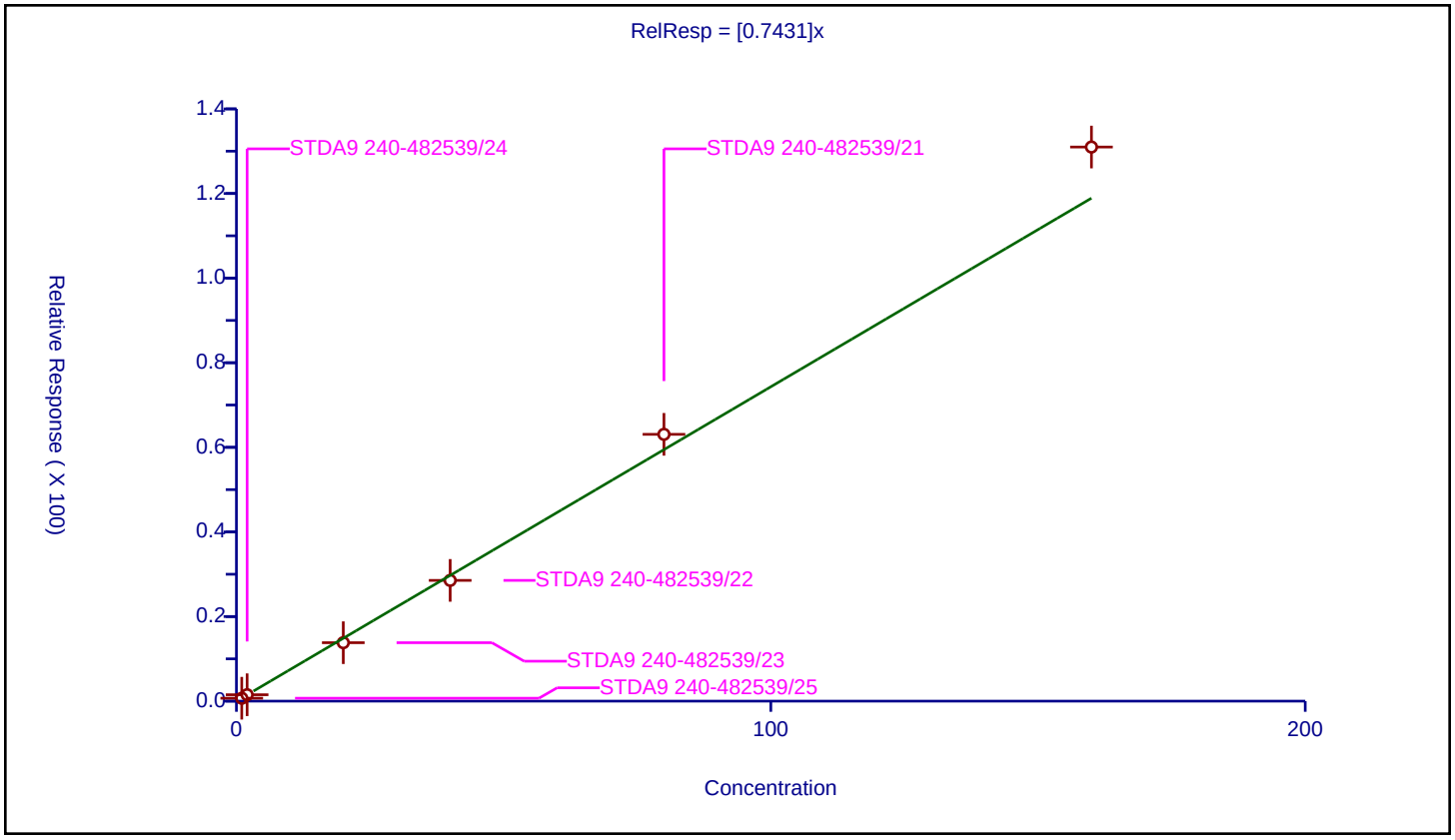
Curve Coefficients

Intercept:	0
Slope:	0.7431

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	7.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	1.0	0.688761	20.0	536296.0	0.688761	Y
2	STDA9 240-482539/24	2.0	1.516796	20.0	520505.0	0.758398	Y
3	STDA9 240-482539/23	20.0	13.817523	20.0	534763.0	0.690876	Y
4	STDA9 240-482539/22	40.0	28.542098	20.0	543363.0	0.713552	Y
5	STDA9 240-482539/21	80.0	63.066819	20.0	537769.0	0.788335	Y
6	STDA9 240-482539/20	160.0	130.983882	20.0	593262.0	0.818649	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

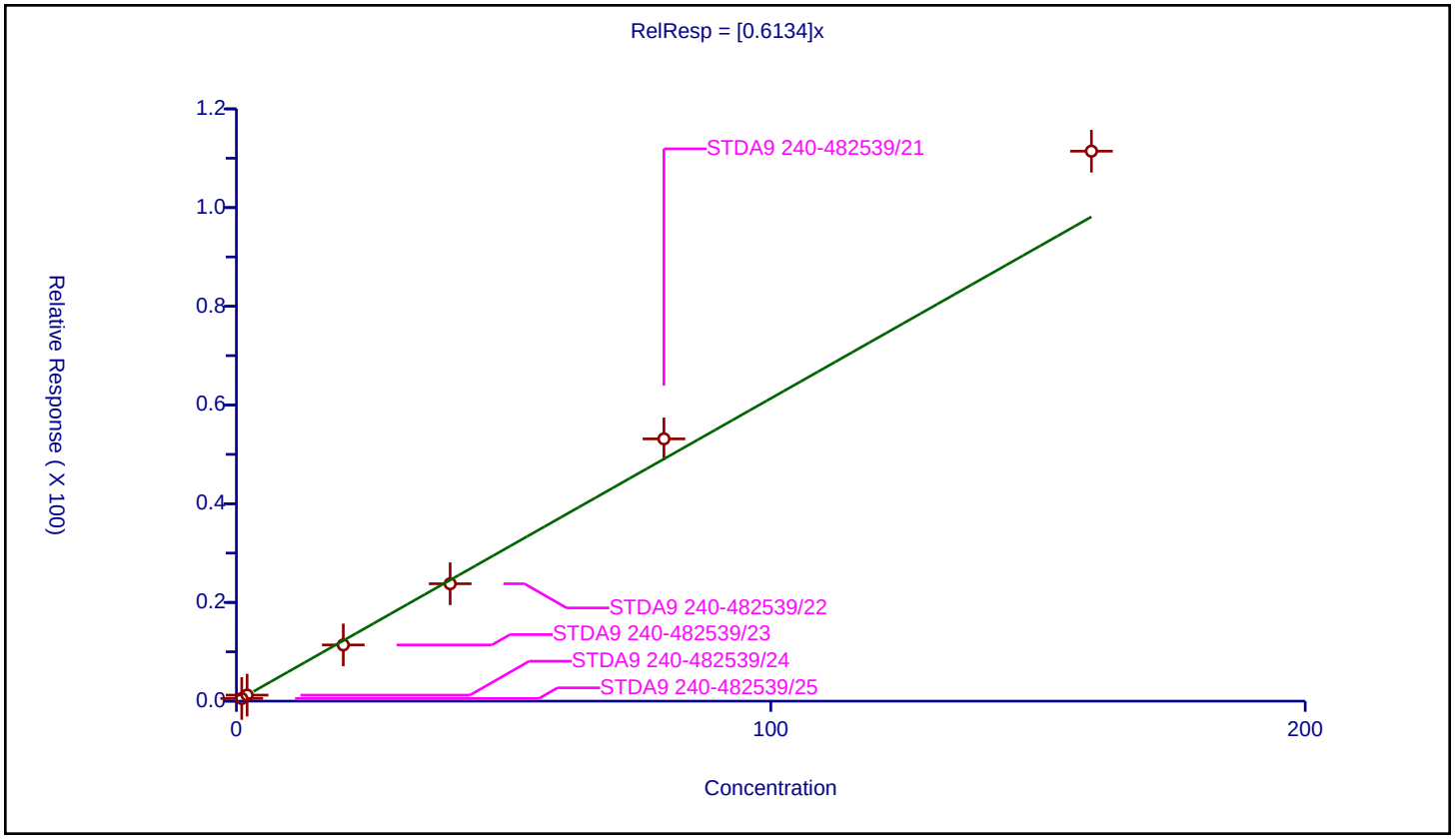
Curve Coefficients

Intercept:	0
Slope:	0.6134

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	9.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-482539/25	1.0	0.543394	20.0	536296.0	0.543394	Y
2	STDA9 240-482539/24	2.0	1.224004	20.0	520505.0	0.612002	Y
3	STDA9 240-482539/23	20.0	11.389457	20.0	534763.0	0.569473	Y
4	STDA9 240-482539/22	40.0	23.78399	20.0	543363.0	0.5946	Y
5	STDA9 240-482539/21	80.0	53.139991	20.0	537769.0	0.66425	Y
6	STDA9 240-482539/20	160.0	111.429824	20.0	593262.0	0.696436	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-489988/8	UX995907.D
Level 2	STD8260 240-489988/9	UX995908.D
Level 3	STD8260 240-489988/10	UX995909.D
Level 4	ICIS 240-489988/11	UX995910.D
Level 5	STD8260 240-489988/12	UX995911.D
Level 6	STD8260 240-489988/13	UX995912.D
Level 7	STD8260 240-489988/14	UX995913.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	0.5310 0.6417	0.5015 0.6111	0.5858	0.6093	0.6055	Ave		0.5837			0.1000	8.5		20.0			
Chloromethane	0.5015 0.5556	0.4864 0.5315	0.4794	0.5204	0.5228	Ave		0.5139			0.1000	5.2		20.0			
Vinyl chloride	0.4293 0.5672	0.4747 0.5431	0.4840	0.5219	0.5374	Ave		0.5082			0.1000	9.4		20.0			
Butadiene	0.4488 0.5171	0.4078 0.4954	0.4524	0.4854	0.4963	Ave		0.4719				7.9		20.0			
Bromomethane	0.4408 0.4141	0.4270 0.4180	0.3887	0.4031	0.3958	Ave		0.4125			0.0500	4.4		20.0			
Chloroethane	0.3629 0.4105	0.3393 0.3837	0.3698	0.3907	0.3962	Ave		0.3790			0.0500	6.3		20.0			
Dichlorofluoromethane	0.8565 0.9306	0.7921 0.8791	0.8330	0.8862	0.8855	Ave		0.8661				5.1		20.0			
Trichlorofluoromethane	0.7837 0.9556	0.7505 0.9181	0.8559	0.9182	0.9039	Ave		0.8694			0.1000	8.8		20.0			
Ethyl ether	0.3247 0.3828	0.3307 0.3724	0.3514	0.3728	0.3639	Ave		0.3570				6.2		20.0			
Acrolein	0.0126 0.0125	0.0156 0.0123	0.0108	0.0114	0.0118	Ave		0.0124				12.4		20.0			
1,1-Dichloroethene	0.5597 0.7462	0.6055 0.7206	0.6721	0.7130	0.6953	Ave		0.6732			0.1000	10.0		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.4368 0.5689	0.4729 0.5410	0.5265	0.5422	0.4933	Ave		0.5117			0.0500	9.0		20.0			
Acetone	+++++ 0.0327	0.0521 0.0318	0.0299	0.0321	0.0311	Lin1	0.0359	0.0313			0.0100	7.1			0.9990		0.9900

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.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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								
Iodomethane	0.6186 0.7111	0.5992 0.6637	0.6367	0.6928	0.6943	Ave		0.6595				6.4		20.0			
Carbon disulfide	1.2513 1.4503	1.2144 1.4200	1.2556	1.3724	1.3494	Ave		1.3305			0.1000	6.9		20.0			
3-Chloro-1-propene	0.6431 0.6957	0.7433 0.6743	0.6386	0.6674	0.6688	Ave		0.6759				5.2		20.0			
Methyl acetate	0.1958 0.2431	0.2000 0.2369	0.2193	0.2287	0.2308	Ave		0.2221			0.1000	8.1		20.0			
Methylene Chloride	0.5316 0.5959	0.5758 0.5873	0.5445	0.5790	0.5723	Ave		0.5695			0.1000	4.1		20.0			
tert-Butyl alcohol	0.0430 0.0435	0.0416 0.0423	0.0396	0.0414	0.0417	Ave		0.0419				3.0		20.0			
Acrylonitrile	0.1136 0.1357	0.1227 0.1320	0.1224	0.1305	0.1307	Ave		0.1268				6.0		20.0			
Methyl tert-butyl ether	1.2727 1.5671	1.3818 1.5225	1.4143	1.4944	1.5029	Ave		1.4508			0.1000	7.0		20.0			
trans-1,2-Dichloroethene	0.5591 0.7044	0.6270 0.6872	0.6356	0.6779	0.6757	Ave		0.6524			0.1000	7.6		20.0			
Hexane	0.6998 0.7475	0.6214 0.7030	0.6891	0.7350	0.6563	Ave		0.6932				6.3		20.0			
1,1-Dichloroethane	0.8535 0.9397	0.8451 0.9271	0.8478	0.9130	0.9134	Ave		0.8914			0.2000	4.6		20.0			
Vinyl acetate	0.7157 0.8367	0.7280 0.8177	0.7380	0.7668	0.8079	Ave		0.7730				6.2		20.0			
cis-1,2-Dichloroethene	0.5424 0.6361	0.5153 0.6292	0.5575	0.6079	0.6104	Ave		0.5855			0.1000	8.0		20.0			
2-Butanone	0.0338 0.0512	0.0432 0.0500	0.0486	0.0493	0.0477	Ave		0.0463			0.0100	13.1		20.0			
2,2-Dichloropropane	0.8673 0.9678	0.8935 0.9453	0.8799	0.9423	0.9315	Ave		0.9182				4.1		20.0			
Bromochloromethane	0.3655 0.3704	0.3347 0.3629	0.3472	0.3621	0.3594	Ave		0.3574				3.4		20.0			
Tetrahydrofuran	0.1177 0.1065	0.1047 0.1036	0.0956	0.1025	0.1005	Ave		0.1045				6.5		20.0			
Chloroform	0.8777 1.0101	0.8739 0.9868	0.8989	0.9663	0.9657	Ave		0.9399			0.2000	5.9		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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								
1,1,1-Trichloroethane	0.8324 1.0157	0.8442 0.9903	0.9091	0.9758	0.9577	Ave		0.9322			0.1000	7.7		20.0			
Cyclohexane	0.8487 1.0051	0.8450 0.9489	0.9160	0.9677	0.8753	Ave		0.9153			0.1000	6.8		20.0			
1,1-Dichloropropene	0.6612 0.7799	0.6725 0.7565	0.7036	0.7539	0.7422	Ave		0.7243				6.3		20.0			
Carbon tetrachloride	0.6828 0.9070	0.7905 0.8864	0.7991	0.8770	0.8425	Ave		0.8265			0.1000	9.3		20.0			
Isobutyl alcohol	+++++ 0.0112	0.0124 0.0109	0.0100	0.0109	0.0110	Ave		0.0111				7.2		20.0			
1,2-Dichloroethane	0.6095 0.6853	0.6390 0.6676	0.6343	0.6705	0.6677	Ave		0.6534			0.1000	4.1		20.0			
Benzene	2.0799 2.1886	1.9774 2.1128	2.0027	2.1175	2.0993	Ave		2.0826			0.5000	3.5		20.0			
n-Heptane	+++++ 0.4684	0.5352 0.4446	0.4330	0.4543	0.4059	Ave		0.4569				9.6		20.0			
Trichloroethene	0.5544 0.6555	0.5700 0.6367	0.5963	0.6309	0.6214	Ave		0.6093			0.1500	6.1		20.0			
Methylcyclohexane	0.8342 1.0622	0.8475 1.0043	0.9606	1.0282	0.9283	Ave		0.9522			0.1000	9.2		20.0			
1,2-Dichloropropane	0.4064 0.5170	0.4316 0.5116	0.4815	0.5016	0.4914	Ave		0.4773			0.1000	8.8		20.0			
Dibromomethane	+++++ 0.3256	0.2892 0.3212	0.2924	0.3142	0.3156	Ave		0.3097				4.9		20.0			
1,4-Dioxane	+++++ 0.0053	0.0039 0.0053	0.0047	0.0052	0.0052	Ave		0.0049				11.2		20.0			
Bromodichloromethane	0.6996 0.7599	0.6725 0.7501	0.6922	0.7338	0.7297	Ave		0.7197			0.1500	4.5		20.0			
2-Chloroethyl vinyl ether	0.2144 0.2479	0.2490 0.2365	0.2329	0.2459	0.2365	Ave		0.2376				5.1		20.0			
cis-1,3-Dichloropropene	0.7243 0.7710	0.7062 0.7474	0.7236	0.7662	0.7516	Ave		0.7415			0.1500	3.2		20.0			
4-Methyl-2-pentanone	0.3086 0.3621	0.3737 0.3532	0.3262	0.3519	0.3503	Ave		0.3466			0.0500	6.4		20.0			
Toluene	2.6784 3.0000	2.7375 2.8624	2.7884	2.8564	2.8904	Ave		2.8305			0.4000	3.7		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.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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								
trans-1,3-Dichloropropene	0.7242 0.8216	0.7929 0.7835	0.7885	0.7981	0.8022	Ave		0.7873			0.1000	3.9		20.0			
Ethyl methacrylate	0.6634 0.7486	0.6228 0.7362	0.6728	0.7023	0.7200	Ave		0.6952				6.4		20.0			
1,1,2-Trichloroethane	0.5321 0.5649	0.5042 0.5508	0.5225	0.5392	0.5497	Ave		0.5376			0.1000	3.7		20.0			
1,3-Dichloropropane	0.8934 0.9497	0.8703 0.9242	0.8812	0.9097	0.9283	Ave		0.9081				3.1		20.0			
Tetrachloroethene	0.6814 0.8375	0.7272 0.8040	0.7483	0.7798	0.7798	Ave		0.7654			0.1500	6.7		20.0			
2-Hexanone	0.3541 0.2943	0.3090 0.2859	0.2714	0.2803	0.2805	Ave		0.2965			0.0500	9.5		20.0			
Dibromochloromethane	0.5598 0.7063	0.6301 0.6922	0.6201	0.6665	0.6768	Ave		0.6503				7.8		20.0			
1,2-Dibromoethane	0.4610 0.5169	0.4622 0.5033	0.4999	0.4998	0.5081	Ave		0.4930				4.5		20.0			
Chlorobenzene	1.8631 1.9753	1.8138 1.9017	1.8357	1.9188	1.9184	Ave		1.8895			0.3000	2.9		20.0			
1,1,1,2-Tetrachloroethane	0.6429 0.7839	0.7393 0.7713	0.7009	0.7452	0.7519	Ave		0.7336				6.5		20.0			
Ethylbenzene	0.9916 1.2152	1.0152 1.1607	1.0837	1.1526	1.1579	Ave		1.1110				7.5		20.0			
m-Xylene & p-Xylene	1.2511 1.5046	1.2287 1.4430	1.3529	1.4254	1.4332	Ave		1.3770				7.5		20.0			
o-Xylene	1.2266 1.4592	1.1947 1.4186	1.3145	1.3890	1.3973	Ave		1.3428				7.5		20.0			
Styrene	1.6870 2.1135	1.7793 2.0421	1.9074	1.9941	2.0379	Ave		1.9373			0.3000	8.0		20.0			
Bromoform	0.2911 0.4228	0.3398 0.4145	0.3632	0.3941	0.4072	Ave		0.3761			0.1000	12.7		20.0			
Isopropylbenzene	3.0809 3.7341	3.1549 3.5350	3.3788	3.5600	3.5248	Ave		3.4241			0.1000	6.8		20.0			
1,1,2,2-Tetrachloroethane	1.0169 1.1161	1.0679 1.1035	1.0556	1.1068	1.0988	Ave		1.0808			0.3000	3.3		20.0			
Bromobenzene	1.4606 1.4909	1.4300 1.4734	1.3771	1.4618	1.4678	Ave		1.4517				2.6		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.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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								
1,2,3-Trichloropropane	0.4017 0.4321	0.3897 0.4210	0.4125	0.4253	0.4221	Ave		0.4149				3.6		20.0			
trans-1,4-Dichloro-2-butene	0.3233 0.2983	0.2976 0.2959	0.2961	0.2974	0.2965	Ave		0.3007				3.3		20.0			
n-Propylbenzene	1.6204 1.8946	1.7344 1.8360	1.7258	1.8336	1.7996	Ave		1.7778				5.1		20.0			
2-Chlorotoluene	1.4162 1.5749	1.4164 1.5339	1.4219	1.5309	1.5140	Ave		1.4869				4.5		20.0			
1,3,5-Trimethylbenzene	4.7187 5.2722	4.5843 5.1141	4.8823	5.1911	5.0788	Ave		4.9774				5.1		20.0			
4-Chlorotoluene	1.4726 1.5780	1.4698 1.5669	1.4738	1.5679	1.5428	Ave		1.5245				3.3		20.0			
tert-Butylbenzene	4.2675 5.3342	4.5448 5.2192	4.6364	4.9301	4.8491	Ave		4.8259				7.8		20.0			
1,2,4-Trimethylbenzene	4.6349 5.2301	4.6532 5.1112	4.9084	5.2490	5.1570	Ave		4.9920				5.3		20.0			
sec-Butylbenzene	1.3758 1.5211	1.2512 1.4602	1.3849	1.4891	1.4157	Ave		1.4140				6.3		20.0			
1,3-Dichlorobenzene	2.4427 2.9683	2.6764 2.8915	2.7489	2.9509	2.8908	Ave		2.7956			0.6000	6.7		20.0			
p-Isopropyltoluene	4.7423 5.7302	4.9370 5.4817	5.3189	5.6557	5.4502	Ave		5.3308				6.9		20.0			
1,4-Dichlorobenzene	2.7864 2.9815	2.8244 2.8949	2.7648	2.9317	2.8921	Ave		2.8680			0.5000	2.8		20.0			
n-Butylbenzene	3.7756 4.4537	3.8462 4.2705	4.0791	4.3837	4.2208	Ave		4.1471				6.3		20.0			
1,2-Dichlorobenzene	2.6558 2.8285	2.7434 2.7698	2.6366	2.8266	2.7413	Ave		2.7431			0.4000	2.7		20.0			
1,2-Dibromo-3-Chloropropane	0.2080 0.2476	0.2022 0.2521	0.2366	0.2444	0.2479	Ave		0.2341			0.0500	8.7		20.0			
1,2,4-Trichlorobenzene	1.3309 1.5996	1.4068 1.5879	1.4438	1.5657	1.5340	Ave		1.4955			0.2000	6.9		20.0			
Hexachlorobutadiene	0.4147 0.5823	0.4295 0.5567	0.4913	0.5501	0.5334	Ave		0.5083				12.8		20.0			
Naphthalene	3.1858 3.5515	3.2237 3.5320	3.2704	3.4912	3.5051	Ave		3.3942				4.7		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.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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								
1,2,3-Trichlorobenzene	1.1456 1.3644	1.1094 1.3391	1.2150	1.3200	1.3166	Ave		1.2586				8.1		20.0			
Dibromofluoromethane (Surr)	0.4459 0.5585	0.4529 0.5257	0.4782	0.5172	0.5201	Ave		0.4998				8.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.6214 0.5972	0.5442 0.5643	0.5463	0.5791	0.5277	Ave		0.5686				5.8		20.0			
Toluene-d8 (Surr)	2.4068 2.5669	2.2257 2.3928	2.3644	2.4460	2.4249	Ave		2.4039				4.2		20.0			
4-Bromofluorobenzene (Surr)	0.9836 1.0084	0.8444 0.9480	0.8976	0.9613	0.9533	Ave		0.9424				5.8		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-489988/8	UX995907.D
Level 2	STD8260 240-489988/9	UX995908.D
Level 3	STD8260 240-489988/10	UX995909.D
Level 4	ICIS 240-489988/11	UX995910.D
Level 5	STD8260 240-489988/12	UX995911.D
Level 6	STD8260 240-489988/13	UX995912.D
Level 7	STD8260 240-489988/14	UX995913.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	12864 1236021	24234 1836365	291222	573441	877649	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chloromethane	FB	Ave	12150 1070277	23506 1597143	238319	489767	757784	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Vinyl chloride	FB	Ave	10402 1092600	22939 1631799	240628	491159	778986	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Butadiene	FB	Ave	10874 995996	19706 1488635	224902	456801	719405	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromomethane	FB	Ave	10680 797625	20636 1256092	193237	379374	573745	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chloroethane	FB	Ave	8793 790809	16397 1153070	183858	367694	574273	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Dichlorofluoromethane	FB	Ave	20751 1792587	38279 2641508	414098	834076	1283522	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Trichlorofluoromethane	FB	Ave	18988 1840862	36269 2758851	425521	864210	1310200	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethyl ether	FB	Ave	7868 737309	15981 1119042	174718	350839	527554	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Acrolein	FB	Ave	1521 120011	3776 185008	26930	53658	85571	2.50 200	5.00 300	50.0	100	150
1,1-Dichloroethene	FB	Ave	13560 1437470	29264 2165165	334113	671048	1007869	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	10583 1095862	22854 1625653	261745	510309	715108	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Acetone	FB	Lin1	+++++ 125963	5031 191249	29694	60488	90275	+++++ 80.0	2.00 120	20.0	40.0	60.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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
Iodomethane	FB	Ave	14987 1369744	28958 1994459	316505	652031	1006384	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Carbon disulfide	FB	Ave	30316 2793775	58688 4267009	624209	1291680	1955936	0.500 40.0	1.00 60.0	10.0	20.0	30.0
3-Chloro-1-propene	FB	Ave	15580 1340094	35923 2026041	317467	628167	969462	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Methyl acetate	FB	Ave	9487 936448	19335 1423436	218000	430560	669120	1.00 80.0	2.00 120	20.0	40.0	60.0
Methylene Chloride	FB	Ave	12879 1147812	27825 1764659	270687	544921	829514	0.500 40.0	1.00 60.0	10.0	20.0	30.0
tert-Butyl alcohol	FB	Ave	10409 838211	20102 1272029	197046	389320	604848	5.00 400	10.0 600	100	200	300
Acrylonitrile	FB	Ave	27524 2614868	59275 3966707	608400	1227793	1895254	5.00 400	10.0 600	100	200	300
Methyl tert-butyl ether	FB	Ave	30836 3018722	66779 4574926	703113	1406465	2178576	0.500 40.0	1.00 60.0	10.0	20.0	30.0
trans-1,2-Dichloroethene	FB	Ave	13545 1356812	30301 2065018	315981	637983	979506	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Hexane	FB	Ave	16956 1439943	30028 2112291	342599	691770	951316	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1-Dichloroethane	FB	Ave	20678 1810242	40841 2785862	421481	859294	1324048	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Vinyl acetate	FB	Ave	17340 1611818	35184 2457176	366879	721700	1171047	0.500 40.0	1.00 60.0	10.0	20.0	30.0
cis-1,2-Dichloroethene	FB	Ave	13142 1225232	24901 1890516	277172	572096	884735	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Butanone	FB	Ave	1637 197101	4180 300370	48351	92856	138243	1.00 80.0	2.00 120	20.0	40.0	60.0
2,2-Dichloropropane	FB	Ave	21013 1864283	43178 2840346	437425	886845	1350298	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromochloromethane	FB	Ave	8855 713446	16175 1090338	172594	340842	520940	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Tetrahydrofuran	FB	Ave	5705 410390	10120 622863	95042	192959	291352	1.00 80.0	2.00 120	20.0	40.0	60.0
Chloroform	FB	Ave	21264 1945766	42231 2965140	446891	909464	1399883	0.500 40.0	1.00 60.0	10.0	20.0	30.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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
1,1,1-Trichloroethane	FB	Ave	20168 1956509	40796 2975641	451957	918430	1388245	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Cyclohexane	FB	Ave	20563 1936039	40835 2851434	455400	910757	1268835	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1-Dichloropropene	FB	Ave	16020 1502245	32500 2273239	349804	709539	1075858	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Carbon tetrachloride	FB	Ave	16542 1747146	38201 2663559	397243	825449	1221280	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Isobutyl alcohol	FB	Ave	+++++ 540322	15034 822401	123879	256086	397209	+++++ 1000	25.0 1500	250	500	750
1,2-Dichloroethane	FB	Ave	14766 1320008	30879 2006081	315316	631066	967912	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Benzene	FB	Ave	50393 4215974	95563 6348623	995595	1992973	3042963	0.500 40.0	1.00 60.0	10.0	20.0	30.0
n-Heptane	FB	Ave	+++++ 902289	25865 1335862	215242	427542	588348	+++++ 40.0	1.00 60.0	10.0	20.0	30.0
Trichloroethene	FB	Ave	13433 1262725	27547 1913325	296441	593796	900689	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Methylcyclohexane	FB	Ave	20212 2046096	40957 3017705	477540	967754	1345571	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dichloropropane	FB	Ave	9847 995835	20856 1537187	239377	472064	712251	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Dibromomethane	FB	Ave	+++++ 627133	13974 965291	145340	295753	457471	+++++ 40.0	1.00 60.0	10.0	20.0	30.0
1,4-Dioxane	FB	Ave	+++++ 203182	3747 315776	46780	98331	149672	+++++ 800	20.0 1200	200	400	600
Bromodichloromethane	FB	Ave	16950 1463770	32501 2253993	344104	690675	1057689	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Chloroethyl vinyl ether	FB	Ave	10387 955012	24066 1421533	231530	462933	685550	1.00 80.0	2.00 120	20.0	40.0	60.0
cis-1,3-Dichloropropene	FB	Ave	17548 1485242	34130 2245777	359729	721089	1089406	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Methyl-2-pentanone	FB	Ave	14955 1395170	36124 2122386	324292	662331	1015636	1.00 80.0	2.00 120	20.0	40.0	60.0
Toluene	CBNZ d5	Ave	52737	108845	1132744	2288273	3491664	0.500	1.00	10.0	20.0	30.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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
			4817796	7224633				40.0	60.0			
trans-1,3-Dichloropropene	CBNZ d5	Ave	14259 1319348	31528 1977472	320331	639350	969105	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethyl methacrylate	CBNZ d5	Ave	13063 1202179	24761 1858101	273335	562598	869768	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2-Trichloroethane	CBNZ d5	Ave	10477 907152	20048 1390117	212267	431929	664064	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,3-Dichloropropane	CBNZ d5	Ave	17590 1525091	34604 2332658	357975	728746	1121370	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Tetrachloroethene	CBNZ d5	Ave	13417 1345028	28915 2029397	303971	624659	942010	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Hexanone	CBNZ d5	Ave	13945 945386	24569 1443420	220520	449104	677664	1.00 80.0	2.00 120	20.0	40.0	60.0
Dibromochloromethane	CBNZ d5	Ave	11023 1134292	25052 1747028	251926	533965	817642	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dibromoethane	CBNZ d5	Ave	9077 830068	18378 1270381	203075	400417	613764	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chlorobenzene	CBNZ d5	Ave	36685 3172227	72119 4799803	745713	1537132	2317448	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	12658 1258893	29395 1946681	284738	596954	908360	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethylbenzene	CBNZ d5	Ave	19525 1951500	40364 2929579	440218	923340	1398815	0.500 40.0	1.00 60.0	10.0	20.0	30.0
m-Xylene & p-Xylene	CBNZ d5	Ave	24634	48852	549580	1141865	1731309	0.500	1.00	10.0	20.0	30.0

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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
			2416206	3642174				40.0	60.0			
o-Xylene	CBNZ d5	Ave	24151 2343315	47503 3580646	533985	1112728	1687930	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Styrene	CBNZ d5	Ave	33216 3394048	70744 5154339	774865	1597428	2461822	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromoform	CBNZ d5	Ave	5731 678909	13511 1046217	147561	315726	491905	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Isopropylbenzene	CBNZ d5	Ave	60663 5996566	125440 8922426	1372601	2851902	4258094	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	10509 1033068	22317 1586146	240669	493938	755883	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromobenzene	DCBd 4	Ave	15094 1380008	29884 2117833	313959	652368	1009749	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2,3-Trichloropropane	DCBd 4	Ave	4151 399955	8144 605120	94036	189790	290335	0.500 40.0	1.00 60.0	10.0	20.0	30.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	3341 276123	6219 425330	67510	132727	203952	0.500 40.0	1.00 60.0	10.0	20.0	30.0
n-Propylbenzene	DCBd 4	Ave	16745 1753619	36245 2639030	393447	818329	1237933	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Chlorotoluene	DCBd 4	Ave	14635 1457768	29600 2204795	324169	683243	1041505	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	48762 4879914	95800 7351113	1113091	2316752	3493773	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Chlorotoluene	DCBd 4	Ave	15218	30715	336007	699718	1061289	0.500	1.00	10.0	20.0	30.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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
			1460590	2252236				40.0	60.0			
tert-Butylbenzene	DCBd 4	Ave	44100	94974	1057026	2200245	3335719	0.500	1.00	10.0	20.0	30.0
			4937371	7502134				40.0	60.0			
1,2,4-Trimethylbenzene	DCBd 4	Ave	47896	97239	1119037	2342581	3547575	0.500	1.00	10.0	20.0	30.0
			4840962	7346916				40.0	60.0			
sec-Butylbenzene	DCBd 4	Ave	14217	26147	315728	664558	973903	0.500	1.00	10.0	20.0	30.0
			1407902	2098844				40.0	60.0			
1,3-Dichlorobenzene	DCBd 4	Ave	25243	55930	626703	1316940	1988610	0.500	1.00	10.0	20.0	30.0
			2747460	4156247				40.0	60.0			
p-Isopropyltoluene	DCBd 4	Ave	49006	103170	1212628	2524094	3749223	0.500	1.00	10.0	20.0	30.0
			5303842	7879425				40.0	60.0			
1,4-Dichlorobenzene	DCBd 4	Ave	28794	59022	630333	1308367	1989514	0.500	1.00	10.0	20.0	30.0
			2759709	4161209				40.0	60.0			
n-Butylbenzene	DCBd 4	Ave	39017	80376	929977	1956420	2903500	0.500	1.00	10.0	20.0	30.0
			4122309	6138402				40.0	60.0			
1,2-Dichlorobenzene	DCBd 4	Ave	27445	57330	601106	1261482	1885738	0.500	1.00	10.0	20.0	30.0
			2618043	3981384				40.0	60.0			
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2149	4226	53936	109055	170516	0.500	1.00	10.0	20.0	30.0
			229143	362312				40.0	60.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	13753	29398	329156	698761	1055286	0.500	1.00	10.0	20.0	30.0
			1480610	2282508				40.0	60.0			
Hexachlorobutadiene	DCBd 4	Ave	4285	8976	112002	245486	366935	0.500	1.00	10.0	20.0	30.0
			538996	800191				40.0	60.0			
Naphthalene	DCBd 4	Ave	32922	67367	745594	1558077	2411178	0.500	1.00	10.0	20.0	30.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

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
			3287269	5076964				40.0	60.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	11838 1262905	23184 1924834	277009	589108	905712	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Dibromofluoromethane (Surr)	FB	Ave	10804 1075918	21886 1579547	237708	486802	753961	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	15056 1150388	26298 1695698	271577	545046	764971	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Toluene-d8 (Surr)	CBNZ d5	Ave	47389 4122268	88496 6039464	960506	1959484	2929383	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	19366 1619331	33572 2392735	364647	770065	1151636	0.500 40.0	1.00 60.0	10.0	20.0	30.0

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.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 11:06 Calibration End Date: 06/10/2021 13:21 Calibration ID: 61676

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-489988/8	UX995907.D
Level 2	STD8260 240-489988/9	UX995908.D
Level 3	STD8260 240-489988/10	UX995909.D
Level 4	ICIS 240-489988/11	UX995910.D
Level 5	STD8260 240-489988/12	UX995911.D
Level 6	STD8260 240-489988/13	UX995912.D
Level 7	STD8260 240-489988/14	UX995913.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	+++++	9.0						50				

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995907.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Jun-2021 11:06:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-008
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:43:31 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 12:57:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.880	5.877	0.003	99	969129	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.566	8.575	-0.009	86	787591	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.815	10.811	0.004	95	413354	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.289	5.286	0.003	91	10804	0.5000	0.4461	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.584	5.581	0.003	99	15056	0.5000	0.5464	
$ 6 Toluene-d8 (Surr)	98	7.253	7.250	0.003	92	47389	0.5000	0.5006	
$ 7 4-Bromofluorobenzene (Surr)	95	9.679	9.676	0.003	87	19366	0.5000	0.5219	
9 Dichlorodifluoromethane	85	1.762	1.759	0.003	97	12864	0.5000	0.4548	
10 Chloromethane	50	1.952	1.949	0.003	94	12150	0.5000	0.4879	
11 Vinyl chloride	62	2.082	2.079	0.003	94	10402	0.5000	0.4224	
12 Butadiene	54	2.117	2.126	-0.009	87	10874	0.5000	0.4756	
13 Bromomethane	94	2.437	2.434	0.003	88	10680	0.5000	0.5343	
15 Chloroethane	64	2.543	2.540	0.003	95	8793	0.5000	0.4788	
16 Dichlorofluoromethane	67	2.745	2.742	0.003	96	20751	0.5000	0.4944	
17 Trichlorofluoromethane	101	2.816	2.813	0.003	96	18988	0.5000	0.4507	
18 Ethyl ether	59	3.100	3.097	0.003	88	7868	0.5000	0.4549	
21 Acrolein	56	3.230	3.215	0.015	9	1521	2.50	2.53	
24 1,1-Dichloroethene	61	3.324	3.321	0.003	96	13560	0.5000	0.4157	
22 112TCTFE	101	3.324	3.321	0.003	90	10583	0.5000	0.4268	
23 Acetone	58		3.357				ND	ND	U
25 Iodomethane	142	3.466	3.463	0.003	96	14987	0.5000	0.4690	
26 Carbon disulfide	76	3.537	3.534	0.003	99	30316	0.5000	0.4702	
28 3-Chloro-1-propene	41	3.656	3.653	0.003	86	15580	0.5000	0.4757	
29 Methyl acetate	43	3.679	3.665	0.014	78	9487	1.00	0.8816	
30 Methylene Chloride	49	3.762	3.759	0.003	86	12879	0.5000	0.4667	
31 2-Methyl-2-propanol	59	3.845	3.842	0.003	98	10409	5.00	5.13	
32 Acrylonitrile	53	3.975	3.972	0.003	97	27524	5.00	4.48	
34 trans-1,2-Dichloroethene	61	4.023	4.020	0.003	93	13545	0.5000	0.4285	
33 Methyl tert-butyl ether	73	4.011	4.020	-0.009	96	30836	0.5000	0.4386	
35 Hexane	57	4.259	4.268	-0.009	89	16956	0.5000	0.5048	
36 1,1-Dichloroethane	63	4.389	4.386	0.003	95	20678	0.5000	0.4787	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.425	4.422	0.003	97	17340	0.5000	0.4629	
41 2-Butanone (MEK)	72	4.898	4.883	0.015	37	1637	1.00	0.7303	
43 cis-1,2-Dichloroethene	96	4.886	4.883	0.003	78	13142	0.5000	0.4632	
42 2,2-Dichloropropane	77	4.898	4.895	0.003	83	21013	0.5000	0.4723	
47 Chlorobromomethane	49	5.088	5.084	0.004	79	8855	0.5000	0.5112	
48 Tetrahydrofuran	42	5.147	5.132	0.015	48	5705	1.00	1.13	
49 Chloroform	83	5.147	5.155	-0.008	93	21264	0.5000	0.4669	
50 1,1,1-Trichloroethane	97	5.336	5.333	0.003	96	20168	0.5000	0.4465	
51 Cyclohexane	84	5.395	5.392	0.003	88	20563	0.5000	0.4637	
53 Carbon tetrachloride	117	5.478	5.475	0.003	95	16542	0.5000	0.4131	
52 1,1-Dichloropropene	75	5.466	5.475	-0.009	92	16020	0.5000	0.4565	
54 Isobutyl alcohol	41		5.510				ND	ND	U
56 1,2-Dichloroethane	62	5.644	5.652	-0.008	57	14766	0.5000	0.4664	
55 Benzene	78	5.644	5.652	-0.008	94	50393	0.5000	0.4994	
58 n-Heptane	71		5.865				ND	ND	U
60 Trichloroethene	130	6.200	6.197	0.003	94	13433	0.5000	0.4550	
62 Methylcyclohexane	83	6.377	6.374	0.003	88	20212	0.5000	0.4381	
63 1,2-Dichloropropane	63	6.377	6.386	-0.009	73	9847	0.5000	0.4258	
65 1,4-Dioxane	88		6.493				ND	ND	U
66 Dibromomethane	174		6.493				ND	ND	U
67 Dichlorobromomethane	83	6.602	6.611	-0.009	97	16950	0.5000	0.4860	
69 2-Chloroethyl vinyl ether	63	6.851	6.848	0.003	95	10387	1.00	0.9023	
71 cis-1,3-Dichloropropene	75	7.004	7.001	0.003	94	17548	0.5000	0.4884	
72 4-Methyl-2-pentanone (MIBK)	43	7.123	7.120	0.003	89	14955	1.00	0.8905	
73 Toluene	91	7.312	7.309	0.003	99	52737	0.5000	0.4731	
74 trans-1,3-Dichloropropene	75	7.490	7.487	0.003	92	14259	0.5000	0.4599	
75 Ethyl methacrylate	69	7.549	7.546	0.003	85	13063	0.5000	0.4772	
76 1,1,2-Trichloroethane	97	7.655	7.652	0.003	88	10477	0.5000	0.4949	
77 1,3-Dichloropropane	76	7.809	7.806	0.003	86	17590	0.5000	0.4919	
78 Tetrachloroethene	166	7.821	7.818	0.003	91	13417	0.5000	0.4451	
80 2-Hexanone	43	7.868	7.865	0.003	92	13945	1.00	1.19	
82 Chlorodibromomethane	129	8.034	8.031	0.003	90	11023	0.5000	0.4305	
83 Ethylene Dibromide	107	8.152	8.149	0.003	97	9077	0.5000	0.4675	
85 Chlorobenzene	112	8.602	8.599	0.003	97	36685	0.5000	0.4930	
86 1,1,1,2-Tetrachloroethane	131	8.661	8.670	-0.009	93	12658	0.5000	0.4381	
87 Ethylbenzene	106	8.697	8.693	0.003	98	19525	0.5000	0.4463	
88 m-Xylene & p-Xylene	106	8.803	8.800	0.003	98	24634	0.5000	0.4543	
89 o-Xylene	106	9.182	9.179	0.003	96	24151	0.5000	0.4567	
90 Styrene	104	9.193	9.190	0.003	93	33216	0.5000	0.4354	
91 Bromoform	173	9.371	9.368	0.003	84	5731	0.5000	0.3870	
92 Isopropylbenzene	105	9.525	9.534	-0.009	95	60663	0.5000	0.4499	
94 1,1,2,2-Tetrachloroethane	83	9.797	9.794	0.003	93	10509	0.5000	0.4705	
95 Bromobenzene	156	9.844	9.841	0.003	94	15094	0.5000	0.5031	
97 1,2,3-Trichloropropane	110	9.844	9.853	-0.009	81	4151	0.5000	0.4841	
96 trans-1,4-Dichloro-2-butene	53	9.844	9.853	-0.009	69	3341	0.5000	0.5375	
98 N-Propylbenzene	120	9.927	9.924	0.003	98	16745	0.5000	0.4557	
100 2-Chlorotoluene	126	10.022	10.019	0.003	97	14635	0.5000	0.4762	
101 1,3,5-Trimethylbenzene	105	10.093	10.090	0.003	95	48762	0.5000	0.4740	
102 4-Chlorotoluene	126	10.128	10.125	0.003	97	15218	0.5000	0.4830	
104 tert-Butylbenzene	119	10.424	10.421	0.003	88	44100	0.5000	0.4421	
106 1,2,4-Trimethylbenzene	105	10.460	10.468	-0.008	93	47896	0.5000	0.4642	
107 sec-Butylbenzene	134	10.637	10.634	0.003	93	14217	0.5000	0.4865	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.755	10.752	0.003	95	25243	0.5000	0.4369	
109 4-Isopropyltoluene	119	10.767	10.776	-0.009	97	49006	0.5000	0.4448	
110 1,4-Dichlorobenzene	146	10.838	10.835	0.003	96	28794	0.5000	0.4858	
113 n-Butylbenzene	91	11.181	11.178	0.003	94	39017	0.5000	0.4552	
114 1,2-Dichlorobenzene	146	11.217	11.214	0.003	97	27445	0.5000	0.4841	
115 1,2-Dibromo-3-Chloropropane	157	11.974	11.983	-0.009	83	2149	0.5000	0.4442	
117 1,2,4-Trichlorobenzene	180	12.826	12.823	0.003	92	13753	0.5000	0.4449	
118 Hexachlorobutadiene	225	12.992	13.001	-0.009	86	4285	0.5000	0.4079	
119 Naphthalene	128	13.086	13.083	0.003	96	32922	0.5000	0.4693	
120 1,2,3-Trichlorobenzene	180	13.359	13.356	0.003	91	11838	0.5000	0.4551	
S 158 Total BTEX	1				0		2.50	2.33	
S 128 1,2-Dichloroethene, Total	96				0			0.8917	
S 129 1,3-Dichloropropene, Total	75				0			0.9483	
S 130 Trihalomethanes, Total	83				0		2.00	1.77	
S 131 Xylenes, Total	106				0		1.00	0.9110	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

VMRGAS_00388	Amount Added:	0.40	Units: uL
VMAROLISTDW_00395	Amount Added:	0.40	Units: uL
vmrprimw_00439	Amount Added:	0.40	Units: uL
vm50ss_00444	Amount Added:	0.40	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

Report Date: 11-Jun-2021 08:43:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995907.D

Injection Date: 10-Jun-2021 11:06:30 Instrument ID: A3UX9 Operator ID: 001765

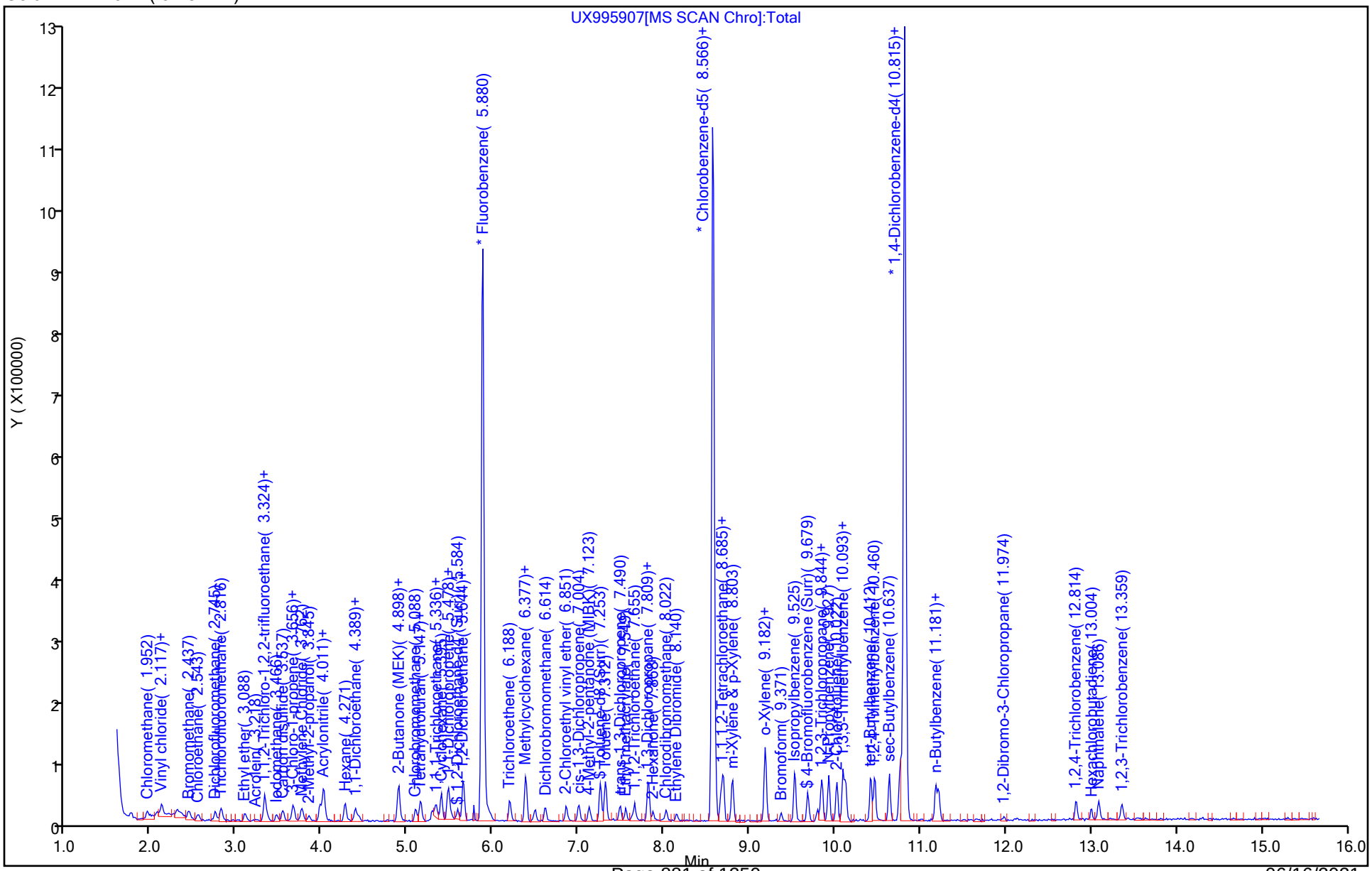
Lims ID: std8260 L1 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260_9 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm)



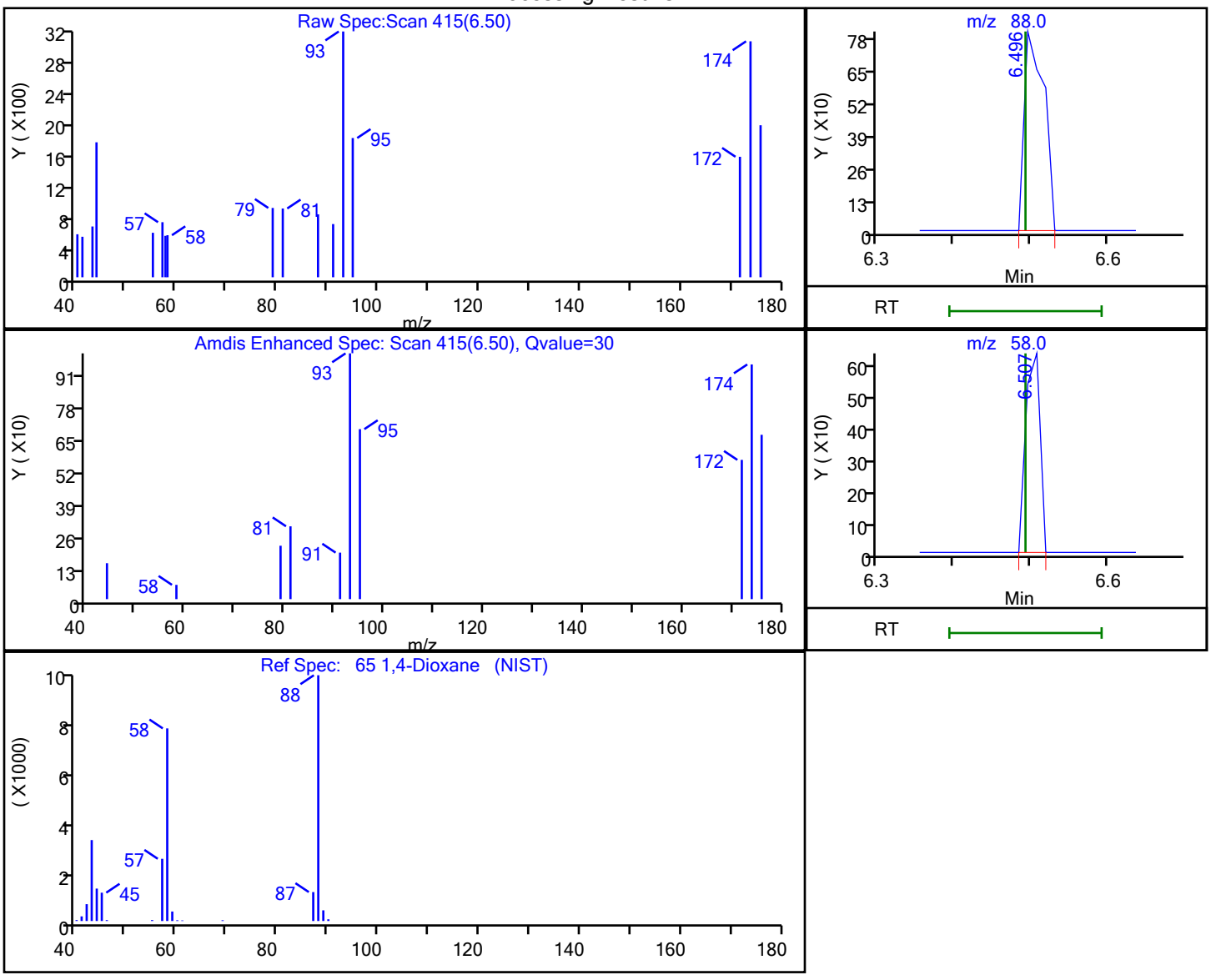
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995907.D				
Injection Date:	10-Jun-2021 11:06:30	Instrument ID:	A3UX9		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	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
6.50	88.00	1450	10.706597
6.51	58.00	836	

Reviewer: bosworthh, 10-Jun-2021 14:22:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

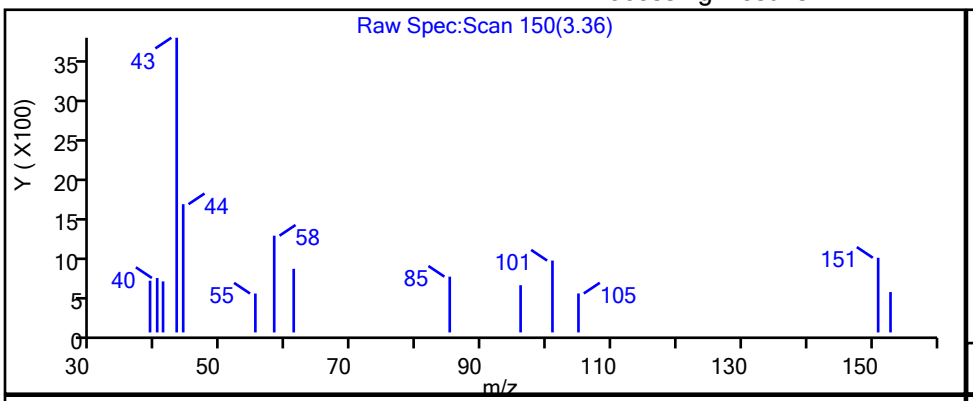
User Disabled Compound Report

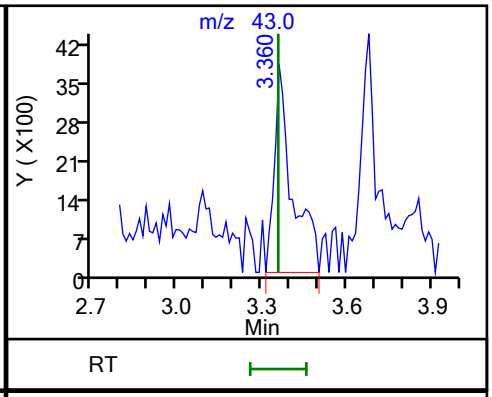
Eurofins TestAmerica, Canton

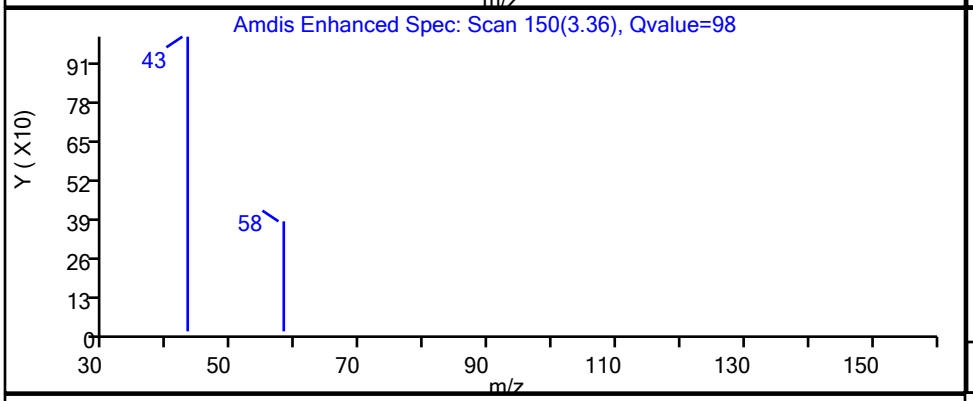
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995907.D				
Injection Date:	10-Jun-2021 11:06:30	Instrument ID:	A3UX9		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

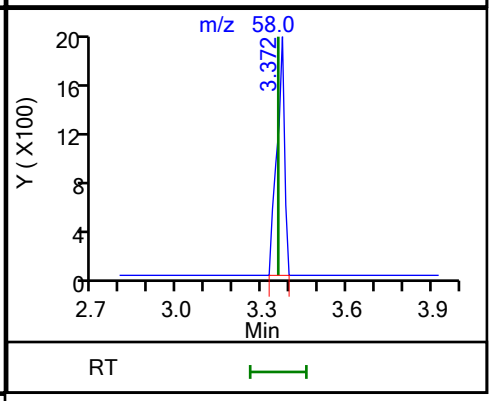
23 Acetone, CAS: 67-64-1

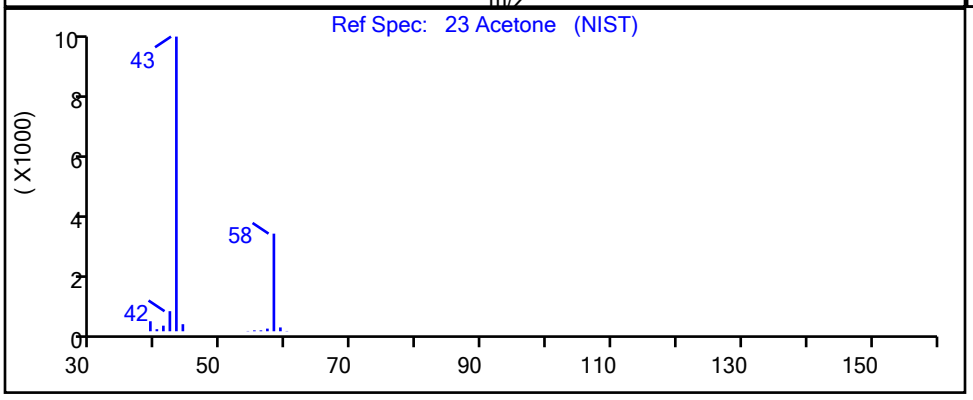
Processing Results











RT	Mass	Response	Amount
3.36	43.00	16701	
3.37	58.00	3752	1.112241

Reviewer: bosworthh, 10-Jun-2021 14:20:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

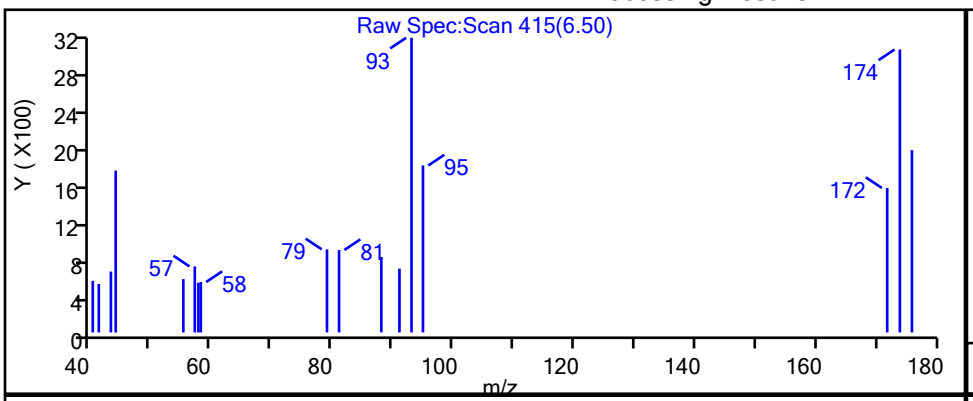
User Disabled Compound Report

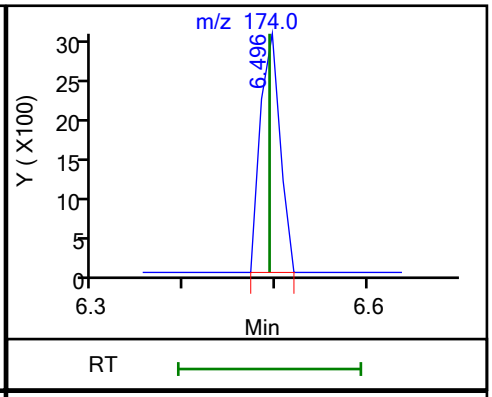
Eurofins TestAmerica, Canton

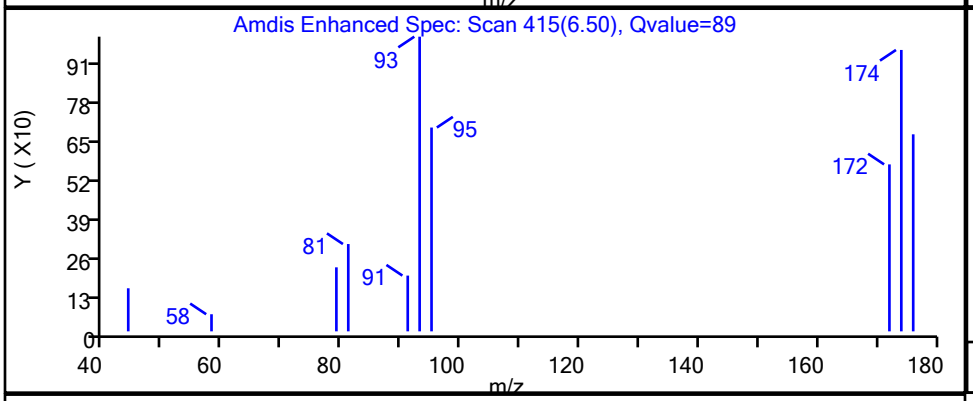
Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995907.D
Injection Date: 10-Jun-2021 11:06:30 Instrument ID: A3UX9
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

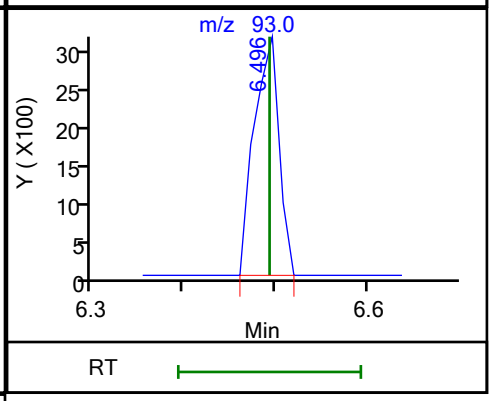
66 Dibromomethane, CAS: 74-95-3

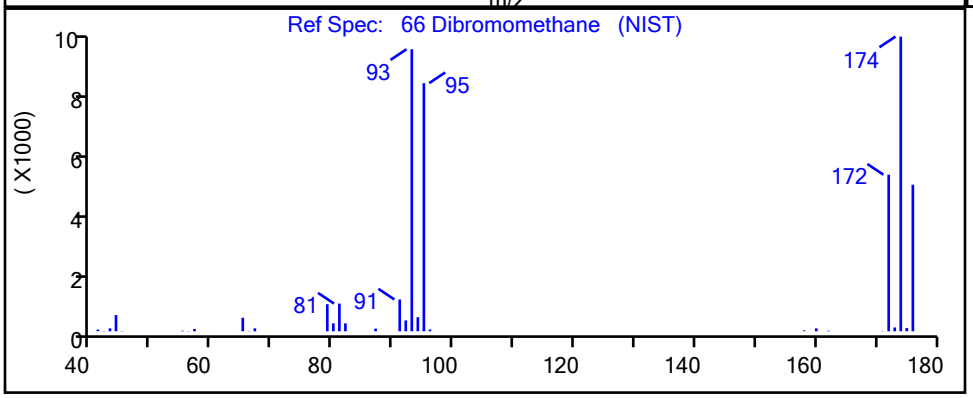
Processing Results











RT	Mass	Response	Amount
6.50	174.00	4541	0.484785
6.50	93.00	5958	

Reviewer: bosworthh, 10-Jun-2021 14:23:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

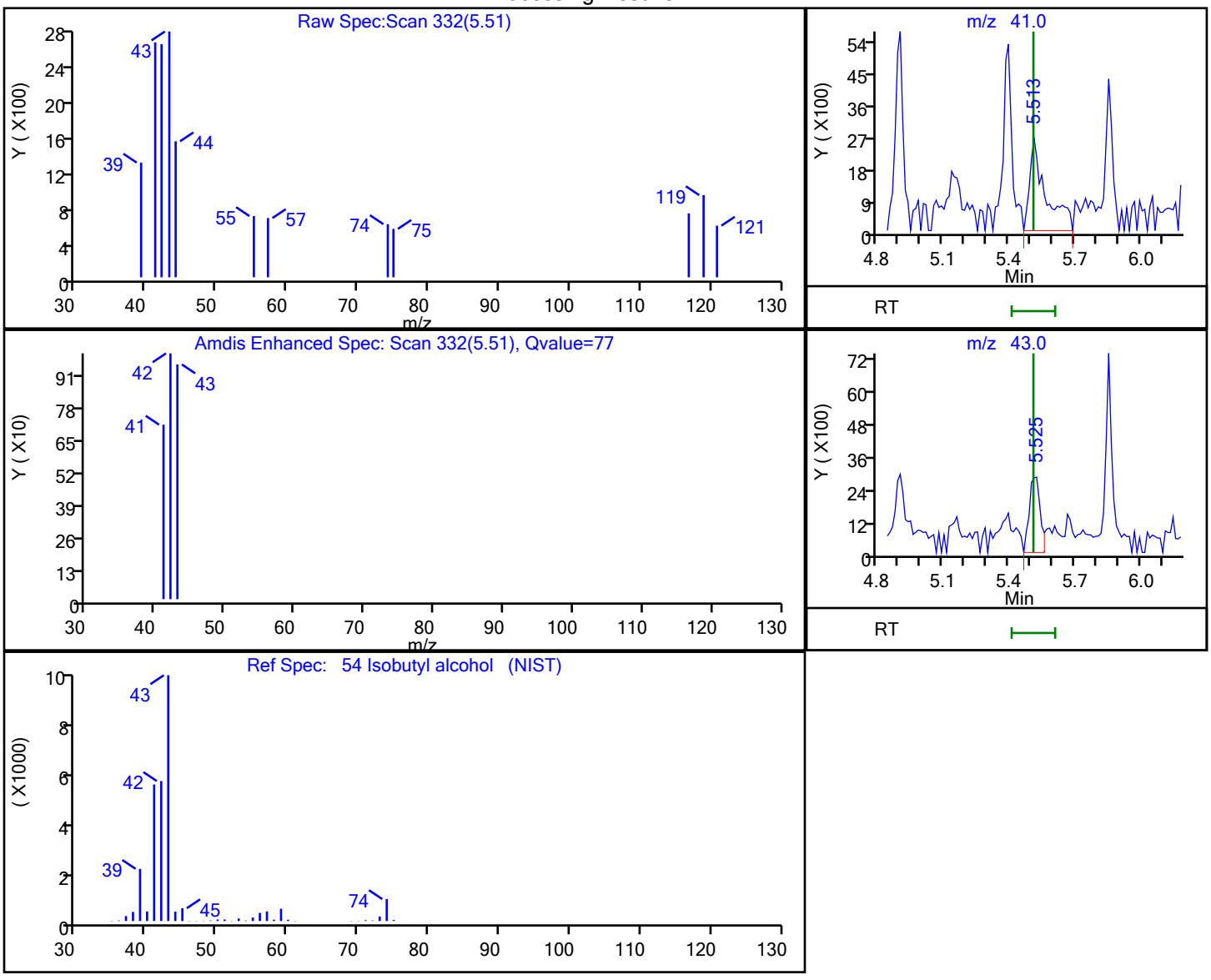
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995907.D				
Injection Date:	10-Jun-2021 11:06:30	Instrument ID:	A3UX9		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

54 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
5.51	41.00	13463	16.427176
5.53	43.00	9804	

Reviewer: bosworthh, 10-Jun-2021 14:21:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

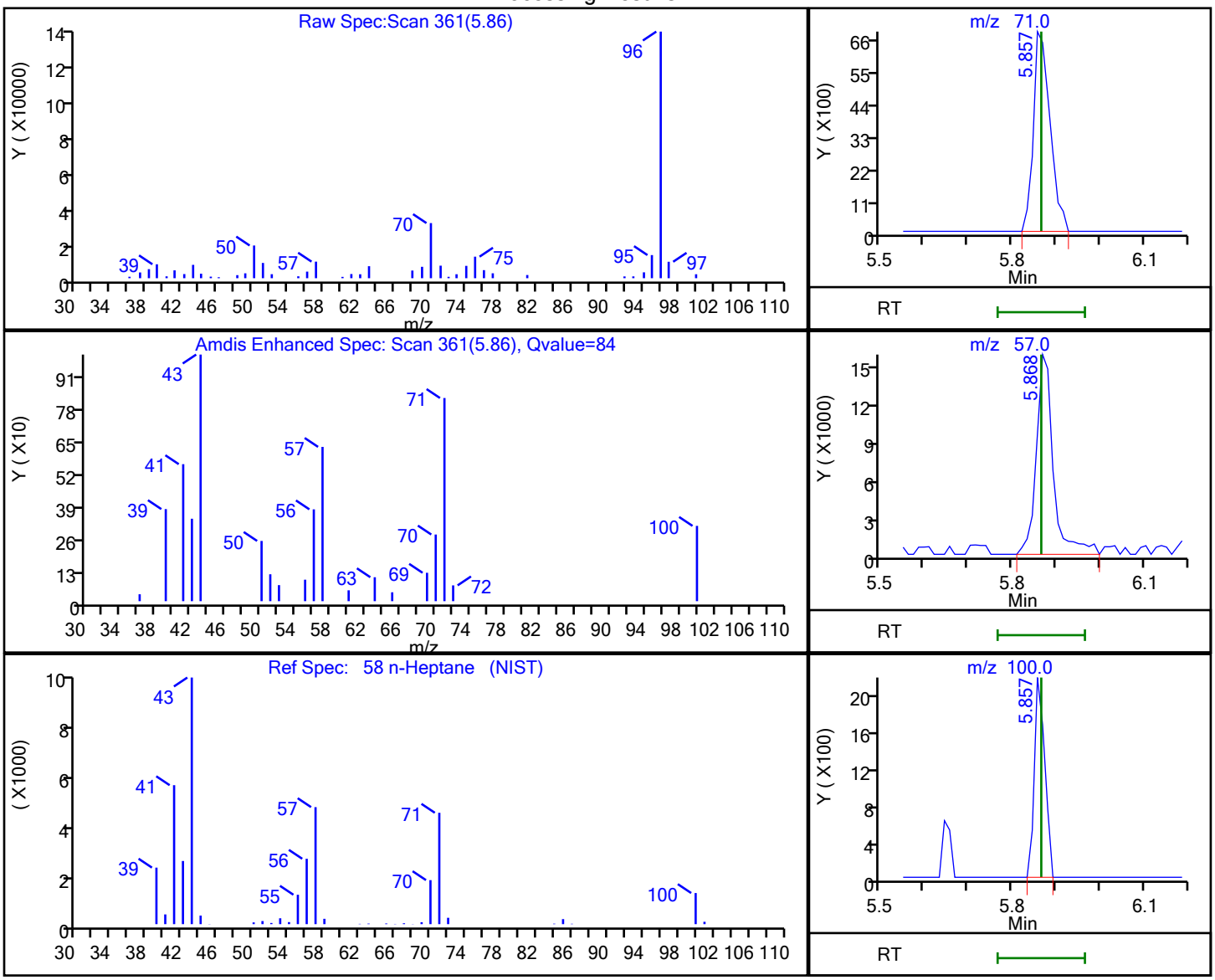
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995907.D				
Injection Date:	10-Jun-2021 11:06:30	Instrument ID:	A3UX9		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

58 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.86	71.00	18287	0.563271
5.87	57.00	40855	
5.86	100.00	3601	

Reviewer: bosworthh, 10-Jun-2021 14:22:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995908.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Jun-2021 11:29:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-009
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:43:35 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 13:02:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.876	5.877	-0.001	99	966538	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.575	-0.001	85	795210	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.810	10.811	-0.001	95	417949	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.286	-0.001	92	21886	1.00	0.9061	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.580	5.581	-0.001	99	26298	1.00	0.9570	
$ 6 Toluene-d8 (Surr)	98	7.249	7.250	-0.001	92	88496	1.00	0.9259	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.676	0.010	90	33572	1.00	0.8960	
9 Dichlorodifluoromethane	85	1.758	1.759	-0.001	99	24234	1.00	0.8591	
10 Chloromethane	50	1.948	1.949	-0.001	97	23506	1.00	0.9464	
11 Vinyl chloride	62	2.078	2.079	-0.001	97	22939	1.00	0.9340	
12 Butadiene	54	2.113	2.126	-0.013	89	19706	1.00	0.8641	
13 Bromomethane	94	2.433	2.434	-0.001	92	20636	1.00	1.04	
15 Chloroethane	64	2.539	2.540	-0.001	97	16397	1.00	0.8952	
16 Dichlorofluoromethane	67	2.752	2.742	0.010	98	38279	1.00	0.9145	
17 Trichlorofluoromethane	101	2.811	2.813	-0.002	99	36269	1.00	0.8632	
18 Ethyl ether	59	3.095	3.097	-0.002	90	15981	1.00	0.9264	
21 Acrolein	56	3.214	3.215	-0.001	23	3776	5.00	6.29	
24 1,1-Dichloroethene	61	3.320	3.321	-0.001	96	29264	1.00	0.8995	
22 112TCTFE	101	3.332	3.321	0.011	90	22854	1.00	0.9242	
23 Acetone	58	3.368	3.357	0.011	98	5031	2.00	2.18	
25 Iodomethane	142	3.462	3.463	-0.001	98	28958	1.00	0.9086	
26 Carbon disulfide	76	3.545	3.534	0.011	99	58688	1.00	0.9127	
28 3-Chloro-1-propene	41	3.652	3.653	-0.001	89	35923	1.00	1.10	
29 Methyl acetate	43	3.663	3.665	-0.002	72	19335	2.00	1.80	
30 Methylene Chloride	49	3.758	3.759	-0.001	88	27825	1.00	1.01	
31 2-Methyl-2-propanol	59	3.841	3.842	-0.001	100	20102	10.0	9.93	
32 Acrylonitrile	53	3.971	3.972	-0.001	98	59275	10.0	9.67	
34 trans-1,2-Dichloroethene	61	4.018	4.020	-0.002	56	30301	1.00	0.9611	
33 Methyl tert-butyl ether	73	4.018	4.020	-0.002	95	66779	1.00	0.9524	
35 Hexane	57	4.267	4.268	-0.001	89	30028	1.00	0.8964	
36 1,1-Dichloroethane	63	4.385	4.386	-0.001	96	40841	1.00	0.9481	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.421	4.422	-0.001	96	35184	1.00	0.9419	
41 2-Butanone (MEK)	72	4.894	4.883	0.011	41	4180	2.00	1.87	
43 cis-1,2-Dichloroethene	96	4.882	4.883	-0.001	80	24901	1.00	0.8800	
42 2,2-Dichloropropane	77	4.894	4.895	-0.001	84	43178	1.00	0.9730	
47 Chlorobromomethane	49	5.083	5.084	-0.001	83	16175	1.00	0.9364	
48 Tetrahydrofuran	42	5.143	5.132	0.011	45	10120	2.00	2.00	
49 Chloroform	83	5.154	5.155	-0.001	94	42231	1.00	0.9297	
50 1,1,1-Trichloroethane	97	5.332	5.333	-0.001	97	40796	1.00	0.9056	
51 Cyclohexane	84	5.391	5.392	-0.001	83	40835	1.00	0.9232	
53 Carbon tetrachloride	117	5.486	5.475	0.011	97	38201	1.00	0.9564	
52 1,1-Dichloropropene	75	5.474	5.475	-0.001	95	32500	1.00	0.9285	
54 Isobutyl alcohol	41	5.509	5.510	-0.001	90	15034	25.0	28.1	
56 1,2-Dichloroethane	62	5.651	5.652	-0.001	59	30879	1.00	0.9779	
55 Benzene	78	5.651	5.652	-0.001	95	95563	1.00	0.9495	
58 n-Heptane	71	5.864	5.865	-0.001	85	25865	1.00	1.17	
60 Trichloroethene	130	6.196	6.197	-0.001	95	27547	1.00	0.9355	
62 Methylcyclohexane	83	6.385	6.374	0.011	87	40957	1.00	0.8901	
63 1,2-Dichloropropane	63	6.385	6.386	-0.001	89	20856	1.00	0.9042	
66 Dibromomethane	174	6.480	6.493	-0.013	93	13974	1.00	0.9337	
65 1,4-Dioxane	88	6.503	6.493	0.010	42	3747	20.0	15.8	
67 Dichlorobromomethane	83	6.610	6.611	-0.001	98	32501	1.00	0.9345	
69 2-Chloroethyl vinyl ether	63	6.858	6.848	0.010	91	24066	2.00	2.10	
71 cis-1,3-Dichloropropene	75	7.000	7.001	-0.001	94	34130	1.00	0.9525	
72 4-Methyl-2-pentanone (MIBK)	43	7.119	7.120	-0.001	93	36124	2.00	2.16	
73 Toluene	91	7.320	7.309	0.011	99	108845	1.00	0.9671	
74 trans-1,3-Dichloropropene	75	7.485	7.487	-0.002	91	31528	1.00	1.01	
75 Ethyl methacrylate	69	7.545	7.546	-0.001	86	24761	1.00	0.8958	
76 1,1,2-Trichloroethane	97	7.651	7.652	-0.001	91	20048	1.00	0.9379	
77 1,3-Dichloropropane	76	7.817	7.806	0.011	86	34604	1.00	0.9584	
78 Tetrachloroethene	166	7.817	7.818	-0.001	90	28915	1.00	0.9501	
80 2-Hexanone	43	7.864	7.865	-0.001	91	24569	2.00	2.08	
82 Chlorodibromomethane	129	8.030	8.031	-0.001	87	25052	1.00	0.9689	
83 Ethylene Dibromide	107	8.148	8.149	-0.001	98	18378	1.00	0.9375	
85 Chlorobenzene	112	8.598	8.599	-0.001	94	72119	1.00	0.9599	
86 1,1,1,2-Tetrachloroethane	131	8.669	8.670	-0.001	91	29395	1.00	1.01	
87 Ethylbenzene	106	8.692	8.693	-0.001	98	40364	1.00	0.9138	
88 m-Xylene & p-Xylene	106	8.799	8.800	-0.001	99	48852	1.00	0.8923	
89 o-Xylene	106	9.178	9.179	-0.001	96	47503	1.00	0.8897	
90 Styrene	104	9.189	9.190	-0.001	93	70744	1.00	0.9184	
91 Bromoform	173	9.367	9.368	-0.001	92	13511	1.00	0.9035	
92 Isopropylbenzene	105	9.533	9.534	-0.002	95	125440	1.00	0.9214	
94 1,1,2,2-Tetrachloroethane	83	9.793	9.794	-0.001	95	22317	1.00	0.9881	
95 Bromobenzene	156	9.840	9.841	-0.001	96	29884	1.00	0.9851	
97 1,2,3-Trichloropropane	110	9.852	9.853	-0.001	80	8144	1.00	0.9393	
96 trans-1,4-Dichloro-2-butene	53	9.852	9.853	-0.001	71	6219	1.00	0.9896	
98 N-Propylbenzene	120	9.923	9.924	-0.001	98	36245	1.00	0.9756	
100 2-Chlorotoluene	126	10.018	10.019	-0.001	96	29600	1.00	0.9526	
101 1,3,5-Trimethylbenzene	105	10.089	10.090	-0.001	95	95800	1.00	0.9210	
102 4-Chlorotoluene	126	10.124	10.125	-0.001	97	30715	1.00	0.9641	
104 tert-Butylbenzene	119	10.420	10.421	-0.001	90	94974	1.00	0.9417	
106 1,2,4-Trimethylbenzene	105	10.467	10.468	-0.001	94	97239	1.00	0.9321	
107 sec-Butylbenzene	134	10.633	10.634	-0.001	94	26147	1.00	0.8849	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.751	10.752	-0.001	96	55930	1.00	0.9573	
109 4-Isopropyltoluene	119	10.775	10.776	-0.001	96	103170	1.00	0.9261	
110 1,4-Dichlorobenzene	146	10.834	10.835	-0.001	94	59022	1.00	0.9848	
113 n-Butylbenzene	91	11.177	11.178	-0.001	97	80376	1.00	0.9274	
114 1,2-Dichlorobenzene	146	11.213	11.214	-0.001	97	57330	1.00	1.00	
115 1,2-Dibromo-3-Chloropropane	157	11.982	11.983	-0.001	80	4226	1.00	0.8639	
117 1,2,4-Trichlorobenzene	180	12.822	12.823	-0.001	94	29398	1.00	0.9407	
118 Hexachlorobutadiene	225	13.000	13.001	-0.001	92	8976	1.00	0.8451	
119 Naphthalene	128	13.082	13.083	-0.001	97	67367	1.00	0.9498	
120 1,2,3-Trichlorobenzene	180	13.355	13.356	-0.002	92	23184	1.00	0.8815	
S 158 Total BTEX	1				0		5.00	4.61	
S 128 1,2-Dichloroethene, Total	96				0			1.84	
S 129 1,3-Dichloropropene, Total	75				0			1.96	
S 130 Trihalomethanes, Total	83				0		4.00	3.74	
S 131 Xylenes, Total	106				0		2.00	1.78	

QC Flag Legend

Processing Flags

Reagents:

VMRGAS_00388	Amount Added:	0.80	Units: uL
VMAROLISTDW_00395	Amount Added:	0.80	Units: uL
vmrprimw_00439	Amount Added:	0.80	Units: uL
vm50ss_00444	Amount Added:	0.80	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

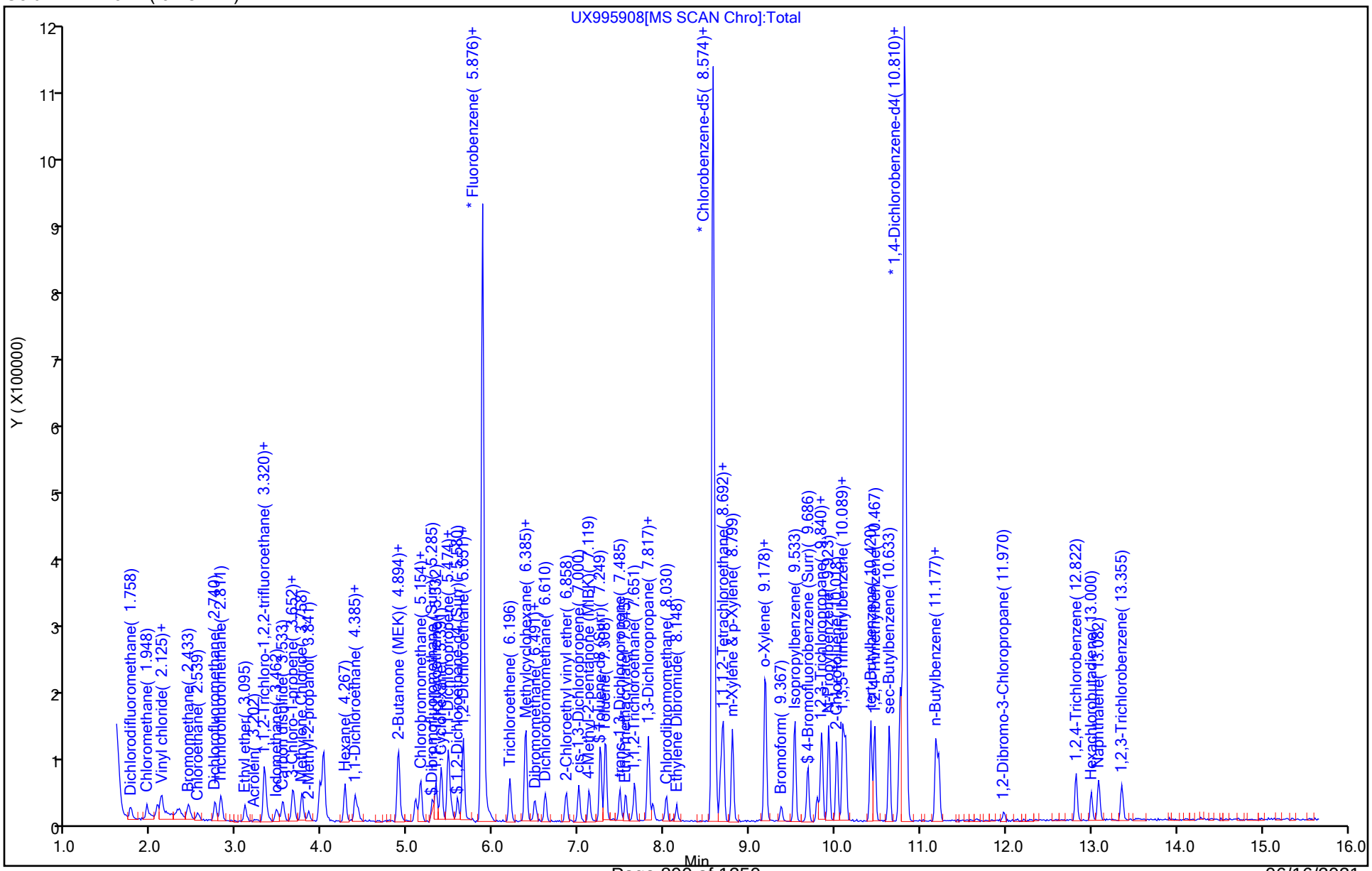
Report Date: 11-Jun-2021 08:43:35 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995908.D

Injection Date:	10-Jun-2021 11:29:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	std8260 L2			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995909.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Jun-2021 11:51:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-010
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:43:39 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 13:03:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.877	0.000	99	994273	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.575	-0.001	85	812471	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	94	455967	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.286	-0.001	93	237708	10.0	9.57	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.581	0.000	99	271577	10.0	9.61	
$ 6 Toluene-d8 (Surr)	98	7.249	7.250	-0.001	92	960506	10.0	9.84	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	90	364647	10.0	9.53	
9 Dichlorodifluoromethane	85	1.759	1.759	0.000	99	291222	10.0	10.0	
10 Chloromethane	50	1.948	1.949	-0.001	99	238319	10.0	9.33	
11 Vinyl chloride	62	2.078	2.079	-0.001	99	240628	10.0	9.52	
12 Butadiene	54	2.126	2.126	0.000	90	224902	10.0	9.59	
13 Bromomethane	94	2.433	2.434	-0.001	91	193237	10.0	9.42	
15 Chloroethane	64	2.540	2.540	0.000	99	183858	10.0	9.76	
16 Dichlorofluoromethane	67	2.753	2.742	0.011	98	414098	10.0	9.62	
17 Trichlorofluoromethane	101	2.812	2.813	-0.001	99	425521	10.0	9.84	
18 Ethyl ether	59	3.096	3.097	-0.001	88	174718	10.0	9.85	
21 Acrolein	56	3.214	3.215	-0.001	99	26930	50.0	43.6	
24 1,1-Dichloroethene	61	3.321	3.321	0.000	98	334113	10.0	9.98	
22 112TCTFE	101	3.321	3.321	0.000	93	261745	10.0	10.3	
23 Acetone	58	3.356	3.357	-0.001	100	29694	20.0	17.9	
25 Iodomethane	142	3.463	3.463	0.000	98	316505	10.0	9.65	
26 Carbon disulfide	76	3.534	3.534	0.000	99	624209	10.0	9.44	
28 3-Chloro-1-propene	41	3.652	3.653	-0.001	88	317467	10.0	9.45	
29 Methyl acetate	43	3.664	3.665	-0.001	96	218000	20.0	19.7	
30 Methylene Chloride	49	3.759	3.759	0.000	87	270687	10.0	9.56	
31 2-Methyl-2-propanol	59	3.841	3.842	-0.001	100	197046	100.0	94.7	
32 Acrylonitrile	53	3.972	3.972	0.000	99	608400	100.0	96.5	
34 trans-1,2-Dichloroethene	61	4.019	4.020	-0.001	92	315981	10.0	9.74	
33 Methyl tert-butyl ether	73	4.019	4.020	-0.001	94	703113	10.0	9.75	
35 Hexane	57	4.267	4.268	-0.001	90	342599	10.0	9.94	
36 1,1-Dichloroethane	63	4.386	4.386	0.000	97	421481	10.0	9.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.421	4.422	-0.001	97	366879	10.0	9.55	
41 2-Butanone (MEK)	72	4.883	4.883	0.000	98	48351	20.0	21.0	
43 cis-1,2-Dichloroethene	96	4.883	4.883	0.000	85	277172	10.0	9.52	
42 2,2-Dichloropropane	77	4.894	4.895	-0.001	90	437425	10.0	9.58	
47 Chlorobromomethane	49	5.096	5.084	0.012	83	172594	10.0	9.71	
48 Tetrahydrofuran	42	5.143	5.132	0.011	83	95042	20.0	18.3	
49 Chloroform	83	5.155	5.155	0.000	95	446891	10.0	9.56	
50 1,1,1-Trichloroethane	97	5.332	5.333	-0.001	97	451957	10.0	9.75	
51 Cyclohexane	84	5.391	5.392	-0.001	83	455400	10.0	10.0	
53 Carbon tetrachloride	117	5.486	5.475	0.011	98	397243	10.0	9.67	
52 1,1-Dichloropropene	75	5.474	5.475	-0.001	96	349804	10.0	9.72	
54 Isobutyl alcohol	41	5.510	5.510	0.000	94	123879	250.0	225.1	
56 1,2-Dichloroethane	62	5.652	5.652	0.000	58	315316	10.0	9.71	
55 Benzene	78	5.652	5.652	0.000	95	995595	10.0	9.62	
58 n-Heptane	71	5.865	5.865	0.000	84	215242	10.0	9.48	
60 Trichloroethene	130	6.196	6.197	-0.001	95	296441	10.0	9.79	
62 Methylcyclohexane	83	6.374	6.374	0.000	87	477540	10.0	10.1	
63 1,2-Dichloropropane	63	6.385	6.386	-0.001	95	239377	10.0	10.1	
65 1,4-Dioxane	88	6.492	6.493	-0.001	89	46780	200.0	191.4	
66 Dibromomethane	174	6.492	6.493	-0.001	95	145340	10.0	9.44	
67 Dichlorobromomethane	83	6.610	6.611	-0.001	99	344104	10.0	9.62	
69 2-Chloroethyl vinyl ether	63	6.859	6.848	0.011	94	231530	20.0	19.6	
71 cis-1,3-Dichloropropene	75	7.001	7.001	0.000	95	359729	10.0	9.76	
72 4-Methyl-2-pentanone (MIBK)	43	7.119	7.120	-0.001	94	324292	20.0	18.8	
73 Toluene	91	7.308	7.309	-0.001	99	1132744	10.0	9.85	
74 trans-1,3-Dichloropropene	75	7.486	7.487	-0.001	92	320331	10.0	10.0	
75 Ethyl methacrylate	69	7.545	7.546	-0.001	87	273335	10.0	9.68	
76 1,1,2-Trichloroethane	97	7.652	7.652	0.000	92	212267	10.0	9.72	
77 1,3-Dichloropropane	76	7.817	7.806	0.011	87	357975	10.0	9.70	
78 Tetrachloroethene	166	7.817	7.818	-0.001	96	303971	10.0	9.78	
80 2-Hexanone	43	7.865	7.865	-0.001	93	220520	20.0	18.3	
82 Chlorodibromomethane	129	8.030	8.031	-0.001	90	251926	10.0	9.54	
83 Ethylene Dibromide	107	8.149	8.149	-0.001	98	203075	10.0	10.1	
85 Chlorobenzene	112	8.598	8.599	-0.001	96	745713	10.0	9.71	
86 1,1,1,2-Tetrachloroethane	131	8.669	8.670	-0.001	96	284738	10.0	9.55	
87 Ethylbenzene	106	8.693	8.693	0.000	98	440218	10.0	9.75	
88 m-Xylene & p-Xylene	106	8.799	8.800	-0.001	100	549580	10.0	9.82	
89 o-Xylene	106	9.178	9.179	-0.001	90	533985	10.0	9.79	
90 Styrene	104	9.190	9.190	0.000	91	774865	10.0	9.85	
91 Bromoform	173	9.367	9.368	-0.001	95	147561	10.0	9.66	
92 Isopropylbenzene	105	9.533	9.534	-0.001	95	1372601	10.0	9.87	
94 1,1,2,2-Tetrachloroethane	83	9.793	9.794	-0.001	96	240669	10.0	9.77	
95 Bromobenzene	156	9.841	9.841	0.000	95	313959	10.0	9.49	
97 1,2,3-Trichloropropane	110	9.852	9.853	-0.001	80	94036	10.0	9.94	
96 trans-1,4-Dichloro-2-butene	53	9.852	9.853	-0.001	71	67510	10.0	9.85	
98 N-Propylbenzene	120	9.923	9.924	-0.001	98	393447	10.0	9.71	
100 2-Chlorotoluene	126	10.018	10.019	-0.001	97	324169	10.0	9.56	
101 1,3,5-Trimethylbenzene	105	10.089	10.090	-0.001	94	1113091	10.0	9.81	
102 4-Chlorotoluene	126	10.125	10.125	0.000	97	336007	10.0	9.67	
104 tert-Butylbenzene	119	10.420	10.421	-0.001	91	1057026	10.0	9.61	
106 1,2,4-Trimethylbenzene	105	10.468	10.468	0.000	96	1119037	10.0	9.83	
107 sec-Butylbenzene	134	10.633	10.634	-0.001	94	315728	10.0	9.79	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.752	10.752	0.000	98	626703	10.0	9.83	
109 4-Isopropyltoluene	119	10.775	10.776	-0.001	97	1212628	10.0	9.98	
110 1,4-Dichlorobenzene	146	10.835	10.835	0.000	94	630333	10.0	9.64	
113 n-Butylbenzene	91	11.178	11.178	0.000	96	929977	10.0	9.84	
114 1,2-Dichlorobenzene	146	11.213	11.214	-0.001	98	601106	10.0	9.61	
115 1,2-Dibromo-3-Chloropropane	157	11.982	11.983	-0.001	90	53936	10.0	10.1	
117 1,2,4-Trichlorobenzene	180	12.822	12.823	-0.001	94	329156	10.0	9.65	
118 Hexachlorobutadiene	225	13.000	13.001	-0.001	97	112002	10.0	9.67	
119 Naphthalene	128	13.083	13.083	0.000	97	745594	10.0	9.64	
120 1,2,3-Trichlorobenzene	180	13.355	13.356	-0.001	96	277009	10.0	9.65	
S 158 Total BTEX	1				0		50.0	48.8	
S 128 1,2-Dichloroethene, Total	96				0			19.3	
S 129 1,3-Dichloropropene, Total	75				0			19.8	
S 130 Trihalomethanes, Total	83				0		40.0	38.4	
S 131 Xylenes, Total	106				0		20.0	19.6	

QC Flag Legend

Processing Flags

Reagents:

VMRGAS_00388	Amount Added:	8.00	Units: uL
VMAROLISTDW_00395	Amount Added:	8.00	Units: uL
vmrprimw_00439	Amount Added:	8.00	Units: uL
vm50ss_00444	Amount Added:	8.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

Report Date: 11-Jun-2021 08:43:40 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995909.D

Injection Date: 10-Jun-2021 11:51:30 Instrument ID: A3UX9 Operator ID: 001765

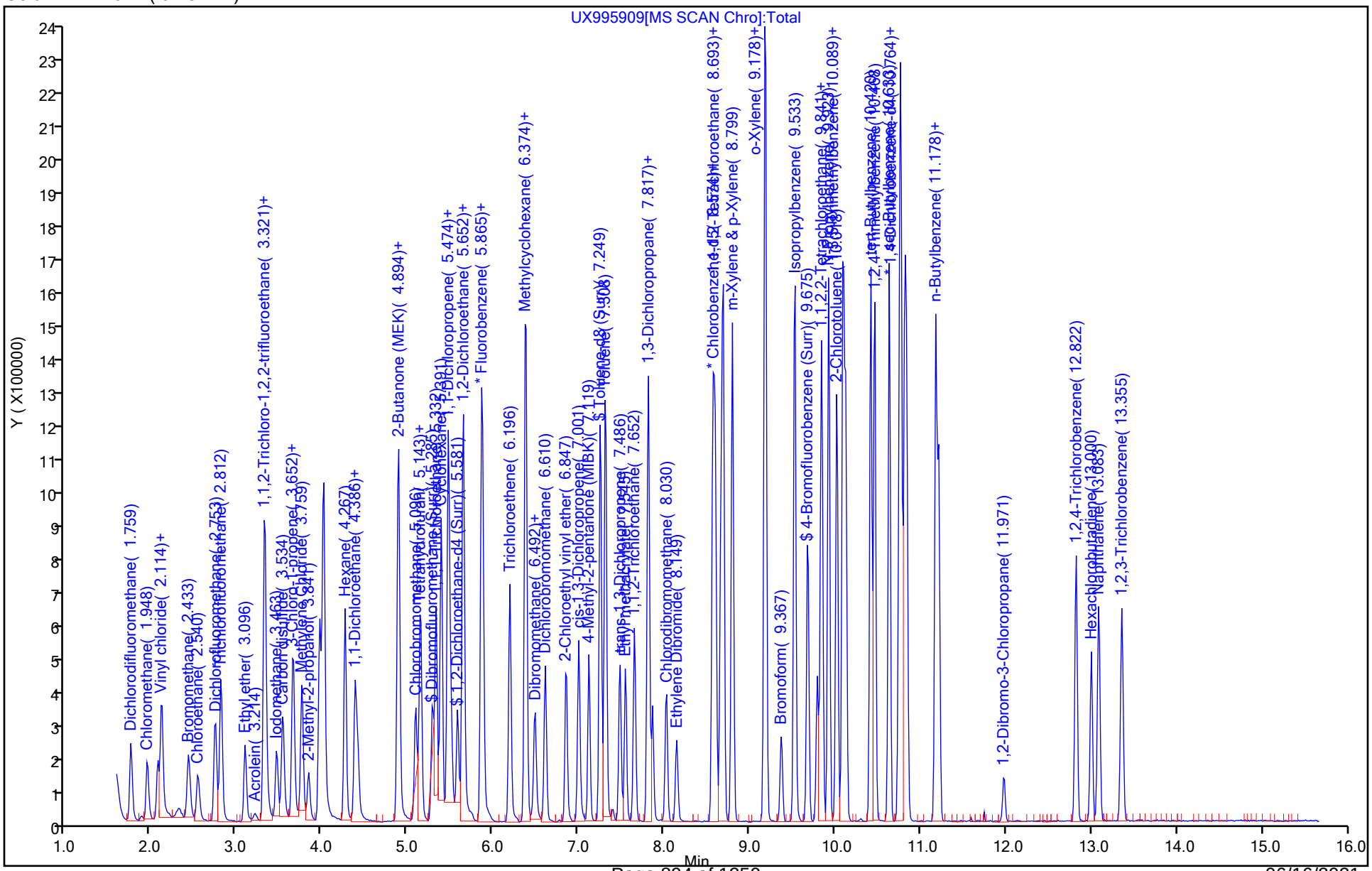
Lims ID: std8260 L3 Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: 8260_9 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995910.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 10-Jun-2021 12:14:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-011
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:43:44 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 13:05:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.877	0.000	99	941178	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.575	0.000	83	801095	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.812	0.000	93	446290	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.286	5.286	0.000	93	486802	20.0	20.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.581	0.000	100	545046	20.0	20.4	
$ 6 Toluene-d8 (Surr)	98	7.250	7.250	0.000	92	1959484	20.0	20.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.676	0.000	89	770065	20.0	20.4	
9 Dichlorodifluoromethane	85	1.759	1.759	0.000	100	573441	20.0	20.9	
10 Chloromethane	50	1.949	1.949	0.000	99	489767	20.0	20.3	
11 Vinyl chloride	62	2.079	2.079	0.000	99	491159	20.0	20.5	
12 Butadiene	54	2.126	2.126	0.000	92	456801	20.0	20.6	
13 Bromomethane	94	2.434	2.434	0.000	91	379374	20.0	19.5	
15 Chloroethane	64	2.540	2.540	0.000	99	367694	20.0	20.6	
16 Dichlorofluoromethane	67	2.742	2.742	0.000	99	834076	20.0	20.5	
17 Trichlorofluoromethane	101	2.813	2.813	0.000	99	864210	20.0	21.1	
18 Ethyl ether	59	3.097	3.097	0.000	87	350839	20.0	20.9	
21 Acrolein	56	3.215	3.215	0.000	99	53658	100.0	91.7	
24 1,1-Dichloroethene	61	3.321	3.321	0.000	98	671048	20.0	21.2	
22 112TCTFE	101	3.321	3.321	0.000	94	510309	20.0	21.2	
23 Acetone	58	3.357	3.357	0.000	100	60488	40.0	39.9	
25 Iodomethane	142	3.463	3.463	0.000	99	652031	20.0	21.0	
26 Carbon disulfide	76	3.534	3.534	0.000	99	1291680	20.0	20.6	
28 3-Chloro-1-propene	41	3.653	3.653	0.000	87	628167	20.0	19.7	
29 Methyl acetate	43	3.665	3.665	0.000	96	430560	40.0	41.2	
30 Methylene Chloride	49	3.759	3.759	0.000	87	544921	20.0	20.3	
31 2-Methyl-2-propanol	59	3.842	3.842	0.000	99	389320	200.0	197.6	
32 Acrylonitrile	53	3.972	3.972	0.000	100	1227793	200.0	205.8	
34 trans-1,2-Dichloroethene	61	4.020	4.020	0.000	94	637983	20.0	20.8	
33 Methyl tert-butyl ether	73	4.020	4.020	0.000	94	1406465	20.0	20.6	
35 Hexane	57	4.268	4.268	0.000	89	691770	20.0	21.2	
36 1,1-Dichloroethane	63	4.386	4.386	0.000	97	859294	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
37 Vinyl acetate	43	4.422	4.422	0.000	97	721700	20.0	19.8	
41 2-Butanone (MEK)	72	4.883	4.883	0.000	97	92856	40.0	42.7	
43 cis-1,2-Dichloroethene	96	4.883	4.883	0.000	82	572096	20.0	20.8	
42 2,2-Dichloropropane	77	4.895	4.895	0.000	89	886845	20.0	20.5	
47 Chlorobromomethane	49	5.084	5.084	0.000	84	340842	20.0	20.3	
48 Tetrahydrofuran	42	5.132	5.132	0.000	84	192959	40.0	39.3	
49 Chloroform	83	5.155	5.155	0.000	94	909464	20.0	20.6	
50 1,1,1-Trichloroethane	97	5.333	5.333	0.000	97	918430	20.0	20.9	
51 Cyclohexane	84	5.392	5.392	0.000	84	910757	20.0	21.1	
53 Carbon tetrachloride	117	5.475	5.475	0.000	98	825449	20.0	21.2	
52 1,1-Dichloropropene	75	5.475	5.475	0.000	97	709539	20.0	20.8	
54 Isobutyl alcohol	41	5.510	5.510	0.000	93	256086	500.0	491.6	
56 1,2-Dichloroethane	62	5.652	5.652	0.000	58	631066	20.0	20.5	
55 Benzene	78	5.652	5.652	0.000	95	1992973	20.0	20.3	
58 n-Heptane	71	5.865	5.865	0.000	85	427542	20.0	19.9	
60 Trichloroethene	130	6.197	6.197	0.000	95	593796	20.0	20.7	
62 Methylcyclohexane	83	6.374	6.374	0.000	87	967754	20.0	21.6	
63 1,2-Dichloropropane	63	6.386	6.386	0.000	93	472064	20.0	21.0	
66 Dibromomethane	174	6.493	6.493	0.000	94	295753	20.0	20.3	
65 1,4-Dioxane	88	6.493	6.493	0.000	44	98331	400.0	425.0	
67 Dichlorobromomethane	83	6.611	6.611	0.000	100	690675	20.0	20.4	
69 2-Chloroethyl vinyl ether	63	6.848	6.848	0.000	94	462933	40.0	41.4	
71 cis-1,3-Dichloropropene	75	7.001	7.001	0.000	95	721089	20.0	20.7	
72 4-Methyl-2-pentanone (MIBK)	43	7.120	7.120	0.000	93	662331	40.0	40.6	
73 Toluene	91	7.309	7.309	0.000	99	2288273	20.0	20.2	
74 trans-1,3-Dichloropropene	75	7.487	7.487	0.000	92	639350	20.0	20.3	
75 Ethyl methacrylate	69	7.546	7.546	0.000	87	562598	20.0	20.2	
76 1,1,2-Trichloroethane	97	7.652	7.652	0.000	91	431929	20.0	20.1	
77 1,3-Dichloropropane	76	7.806	7.806	0.000	89	728746	20.0	20.0	
78 Tetrachloroethene	166	7.818	7.818	0.000	97	624659	20.0	20.4	
80 2-Hexanone	43	7.865	7.865	0.000	94	449104	40.0	37.8	
82 Chlorodibromomethane	129	8.031	8.031	0.000	89	533965	20.0	20.5	
83 Ethylene Dibromide	107	8.149	8.149	0.000	99	400417	20.0	20.3	
85 Chlorobenzene	112	8.599	8.599	0.000	96	1537132	20.0	20.3	
86 1,1,1,2-Tetrachloroethane	131	8.670	8.670	0.000	96	596954	20.0	20.3	
87 Ethylbenzene	106	8.693	8.693	0.000	97	923340	20.0	20.7	
88 m-Xylene & p-Xylene	106	8.800	8.800	0.000	99	1141865	20.0	20.7	
89 o-Xylene	106	9.179	9.179	0.000	96	1112728	20.0	20.7	
90 Styrene	104	9.190	9.190	0.000	93	1597428	20.0	20.6	
91 Bromoform	173	9.368	9.368	0.000	96	315726	20.0	21.0	
92 Isopropylbenzene	105	9.534	9.534	0.000	95	2851902	20.0	20.8	
94 1,1,2,2-Tetrachloroethane	83	9.794	9.794	0.000	96	493938	20.0	20.5	
95 Bromobenzene	156	9.841	9.841	0.000	94	652368	20.0	20.1	
97 1,2,3-Trichloropropane	110	9.853	9.853	0.000	82	189790	20.0	20.5	
96 trans-1,4-Dichloro-2-butene	53	9.853	9.853	0.000	70	132727	20.0	19.8	
98 N-Propylbenzene	120	9.924	9.924	0.000	98	818329	20.0	20.6	
100 2-Chlorotoluene	126	10.019	10.019	0.000	97	683243	20.0	20.6	
101 1,3,5-Trimethylbenzene	105	10.090	10.090	0.000	95	2316752	20.0	20.9	
102 4-Chlorotoluene	126	10.125	10.125	0.000	97	699718	20.0	20.6	
104 tert-Butylbenzene	119	10.421	10.421	0.000	90	2200245	20.0	20.4	
106 1,2,4-Trimethylbenzene	105	10.468	10.468	0.000	96	2342581	20.0	21.0	
107 sec-Butylbenzene	134	10.634	10.634	0.000	94	664558	20.0	21.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.752	10.752	0.000	98	1316940	20.0	21.1	
109 4-Isopropyltoluene	119	10.776	10.776	0.000	96	2524094	20.0	21.2	
110 1,4-Dichlorobenzene	146	10.835	10.835	0.000	95	1308367	20.0	20.4	
113 n-Butylbenzene	91	11.178	11.178	0.000	96	1956420	20.0	21.1	
114 1,2-Dichlorobenzene	146	11.214	11.214	0.000	98	1261482	20.0	20.6	
115 1,2-Dibromo-3-Chloropropane	157	11.983	11.983	0.000	88	109055	20.0	20.9	
117 1,2,4-Trichlorobenzene	180	12.823	12.823	0.000	94	698761	20.0	20.9	
118 Hexachlorobutadiene	225	13.001	13.001	0.000	97	245486	20.0	21.6	
119 Naphthalene	128	13.083	13.083	0.000	97	1558077	20.0	20.6	
120 1,2,3-Trichlorobenzene	180	13.356	13.356	0.000	95	589108	20.0	21.0	
S 158 Total BTEX	1				0		100.0	102.7	
S 130 Trihalomethanes, Total	83				0		80.0	82.4	
S 131 Xylenes, Total	106				0		40.0	41.4	

QC Flag Legend

Processing Flags

Reagents:

VMRGAS_00388	Amount Added:	16.00	Units: uL
VMAROLISTDW_00395	Amount Added:	16.00	Units: uL
vmrprimw_00439	Amount Added:	16.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

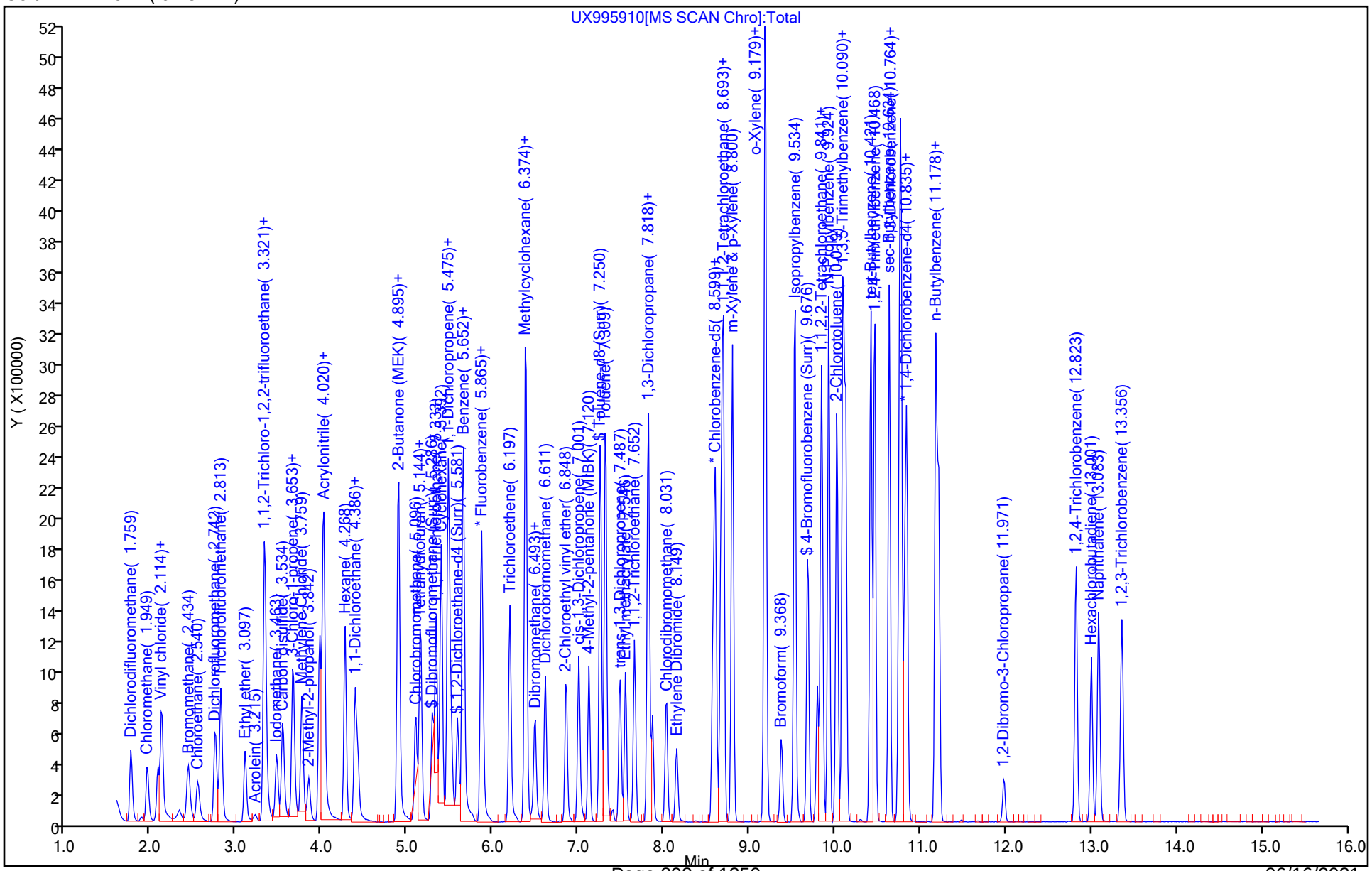
Report Date: 11-Jun-2021 08:43:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995910.D

Injection Date:	10-Jun-2021 12:14:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	ICIS L4			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995911.D
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 10-Jun-2021 12:36:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-012
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:43:50 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 13:07:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.879	5.877	0.002	99	966359	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.577	8.575	0.002	86	805352	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.813	10.812	0.001	93	458607	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.287	5.286	0.001	93	753961	30.0	31.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.583	5.581	0.002	100	764971	30.0	27.8	
$ 6 Toluene-d8 (Surr)	98	7.251	7.250	0.001	92	2929383	30.0	30.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.677	9.676	0.001	88	1151636	30.0	30.3	
9 Dichlorodifluoromethane	85	1.761	1.759	0.002	100	877649	30.0	31.1	
10 Chloromethane	50	1.950	1.949	0.001	100	757784	30.0	30.5	
11 Vinyl chloride	62	2.080	2.079	0.001	99	778986	30.0	31.7	
12 Butadiene	54	2.116	2.126	-0.010	91	719405	30.0	31.6	
13 Bromomethane	94	2.424	2.434	-0.010	91	573745	30.0	28.8	
15 Chloroethane	64	2.542	2.540	0.002	99	574273	30.0	31.4	
16 Dichlorofluoromethane	67	2.743	2.742	0.001	98	1283522	30.0	30.7	
17 Trichlorofluoromethane	101	2.814	2.813	0.001	99	1310200	30.0	31.2	
18 Ethyl ether	59	3.098	3.097	0.001	86	527554	30.0	30.6	
21 Acrolein	56	3.216	3.215	0.001	99	85571	150.0	142.5	
24 1,1-Dichloroethene	61	3.323	3.321	0.002	97	1007869	30.0	31.0	
22 112TCTFE	101	3.323	3.321	0.002	92	715108	30.0	28.9	
23 Acetone	58	3.358	3.357	0.001	100	90275	60.0	58.6	
25 Iodomethane	142	3.465	3.463	0.002	99	1006384	30.0	31.6	
26 Carbon disulfide	76	3.536	3.534	0.002	99	1955936	30.0	30.4	
28 3-Chloro-1-propene	41	3.654	3.653	0.001	89	969462	30.0	29.7	
29 Methyl acetate	43	3.666	3.665	0.001	96	669120	60.0	62.4	
30 Methylene Chloride	49	3.761	3.759	0.002	87	829514	30.0	30.1	
31 2-Methyl-2-propanol	59	3.843	3.842	0.001	100	604848	300.0	298.9	
32 Acrylonitrile	53	3.974	3.972	0.002	99	1895254	300.0	309.3	
34 trans-1,2-Dichloroethene	61	4.021	4.020	0.001	94	979506	30.0	31.1	
33 Methyl tert-butyl ether	73	4.009	4.020	-0.011	94	2178576	30.0	31.1	
35 Hexane	57	4.269	4.268	0.001	90	951316	30.0	28.4	
36 1,1-Dichloroethane	63	4.388	4.386	0.002	97	1324048	30.0	30.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.411	4.422	-0.011	97	1171047	30.0	31.4	
41 2-Butanone (MEK)	72	4.885	4.883	0.002	97	138243	60.0	61.8	
43 cis-1,2-Dichloroethene	96	4.885	4.883	0.002	80	884735	30.0	31.3	
42 2,2-Dichloropropane	77	4.897	4.895	0.002	89	1350298	30.0	30.4	
47 Chlorobromomethane	49	5.086	5.084	0.002	83	520940	30.0	30.2	
48 Tetrahydrofuran	42	5.133	5.132	0.001	83	291352	60.0	57.7	
49 Chloroform	83	5.145	5.155	-0.010	95	1399883	30.0	30.8	
50 1,1,1-Trichloroethane	97	5.334	5.333	0.001	97	1388245	30.0	30.8	
51 Cyclohexane	84	5.394	5.392	0.002	84	1268835	30.0	28.7	
53 Carbon tetrachloride	117	5.476	5.475	0.001	98	1221280	30.0	30.6	
52 1,1-Dichloropropene	75	5.465	5.475	-0.010	96	1075858	30.0	30.7	
54 Isobutyl alcohol	41	5.512	5.510	0.002	94	397209	750.0	742.6	
56 1,2-Dichloroethane	62	5.642	5.652	-0.010	58	967912	30.0	30.7	
55 Benzene	78	5.654	5.652	0.002	95	3042963	30.0	30.2	
58 n-Heptane	71	5.855	5.865	-0.010	85	588348	30.0	26.7	
60 Trichloroethene	130	6.198	6.197	0.001	95	900689	30.0	30.6	
62 Methylcyclohexane	83	6.376	6.374	0.002	86	1345571	30.0	29.2	
63 1,2-Dichloropropane	63	6.388	6.386	0.002	92	712251	30.0	30.9	
65 1,4-Dioxane	88	6.494	6.493	0.001	88	149672	600.0	630.1	
66 Dibromomethane	174	6.494	6.493	0.001	94	457471	30.0	30.6	
67 Dichlorobromomethane	83	6.612	6.611	0.001	100	1057689	30.0	30.4	
69 2-Chloroethyl vinyl ether	63	6.849	6.848	0.001	94	685550	60.0	59.7	
71 cis-1,3-Dichloropropene	75	7.003	7.001	0.002	96	1089406	30.0	30.4	
72 4-Methyl-2-pentanone (MIBK)	43	7.121	7.120	0.001	94	1015636	60.0	60.7	
73 Toluene	91	7.310	7.309	0.001	99	3491664	30.0	30.6	
74 trans-1,3-Dichloropropene	75	7.488	7.487	0.001	92	969105	30.0	30.6	
75 Ethyl methacrylate	69	7.547	7.546	0.001	87	869768	30.0	31.1	
76 1,1,2-Trichloroethane	97	7.654	7.652	0.002	90	664064	30.0	30.7	
77 1,3-Dichloropropane	76	7.807	7.806	0.001	89	1121370	30.0	30.7	
78 Tetrachloroethene	166	7.819	7.818	0.001	99	942010	30.0	30.6	
80 2-Hexanone	43	7.867	7.865	0.002	93	677664	60.0	56.8	
82 Chlorodibromomethane	129	8.020	8.031	-0.011	90	817642	30.0	31.2	
83 Ethylene Dibromide	107	8.151	8.149	0.002	99	613764	30.0	30.9	
85 Chlorobenzene	112	8.600	8.599	0.001	96	2317448	30.0	30.5	
86 1,1,1,2-Tetrachloroethane	131	8.659	8.670	-0.011	95	908360	30.0	30.7	
87 Ethylbenzene	106	8.695	8.693	0.002	97	1398815	30.0	31.3	
88 m-Xylene & p-Xylene	106	8.801	8.800	0.001	99	1731309	30.0	31.2	
89 o-Xylene	106	9.180	9.179	0.001	93	1687930	30.0	31.2	
90 Styrene	104	9.192	9.190	0.002	94	2461822	30.0	31.6	
91 Bromoform	173	9.369	9.368	0.001	96	491905	30.0	32.5	
92 Isopropylbenzene	105	9.523	9.534	-0.011	95	4258094	30.0	30.9	
94 1,1,2,2-Tetrachloroethane	83	9.795	9.794	0.001	96	755883	30.0	30.5	
95 Bromobenzene	156	9.843	9.841	0.002	93	1009749	30.0	30.3	
97 1,2,3-Trichloropropane	110	9.843	9.853	-0.010	81	290335	30.0	30.5	
96 trans-1,4-Dichloro-2-butene	53	9.843	9.853	-0.010	70	203952	30.0	29.6	
98 N-Propylbenzene	120	9.926	9.924	0.002	98	1237933	30.0	30.4	
100 2-Chlorotoluene	126	10.020	10.019	0.001	97	1041505	30.0	30.5	
101 1,3,5-Trimethylbenzene	105	10.091	10.090	0.001	95	3493773	30.0	30.6	
102 4-Chlorotoluene	126	10.127	10.125	0.002	96	1061289	30.0	30.4	
104 tert-Butylbenzene	119	10.423	10.421	0.002	90	3335719	30.0	30.1	
106 1,2,4-Trimethylbenzene	105	10.458	10.468	-0.010	94	3547575	30.0	31.0	
107 sec-Butylbenzene	134	10.636	10.634	0.002	93	973903	30.0	30.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.754	10.752	0.002	98	1988610	30.0	31.0	
109 4-Isopropyltoluene	119	10.778	10.776	0.002	96	3749223	30.0	30.7	
110 1,4-Dichlorobenzene	146	10.837	10.835	0.002	95	1989514	30.0	30.3	
113 n-Butylbenzene	91	11.180	11.178	0.002	96	2903500	30.0	30.5	
114 1,2-Dichlorobenzene	146	11.215	11.214	0.001	99	1885738	30.0	30.0	
115 1,2-Dibromo-3-Chloropropane	157	11.973	11.983	-0.010	90	170516	30.0	31.8	
117 1,2,4-Trichlorobenzene	180	12.825	12.823	0.002	95	1055286	30.0	30.8	
118 Hexachlorobutadiene	225	13.002	13.001	0.001	98	366935	30.0	31.5	
119 Naphthalene	128	13.085	13.083	0.002	97	2411178	30.0	31.0	
120 1,2,3-Trichlorobenzene	180	13.357	13.356	0.001	96	905712	30.0	31.4	
S 158 Total BTEX	1				0		150.0	154.6	
S 128 1,2-Dichloroethene, Total	96				0			62.3	
S 129 1,3-Dichloropropene, Total	75				0			61.0	
S 130 Trihalomethanes, Total	83				0		120.0	124.9	
S 131 Xylenes, Total	106				0		60.0	62.4	

QC Flag Legend

Processing Flags

Reagents:

VMRGAS_00388	Amount Added:	24.00	Units: uL
VMAROLISTDW_00395	Amount Added:	24.00	Units: uL
vmrprimw_00439	Amount Added:	24.00	Units: uL
vm50ss_00444	Amount Added:	24.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

Report Date: 11-Jun-2021 08:43:51 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995911.D

Injection Date: 10-Jun-2021 12:36:30 Instrument ID: A3UX9 Operator ID: 001765

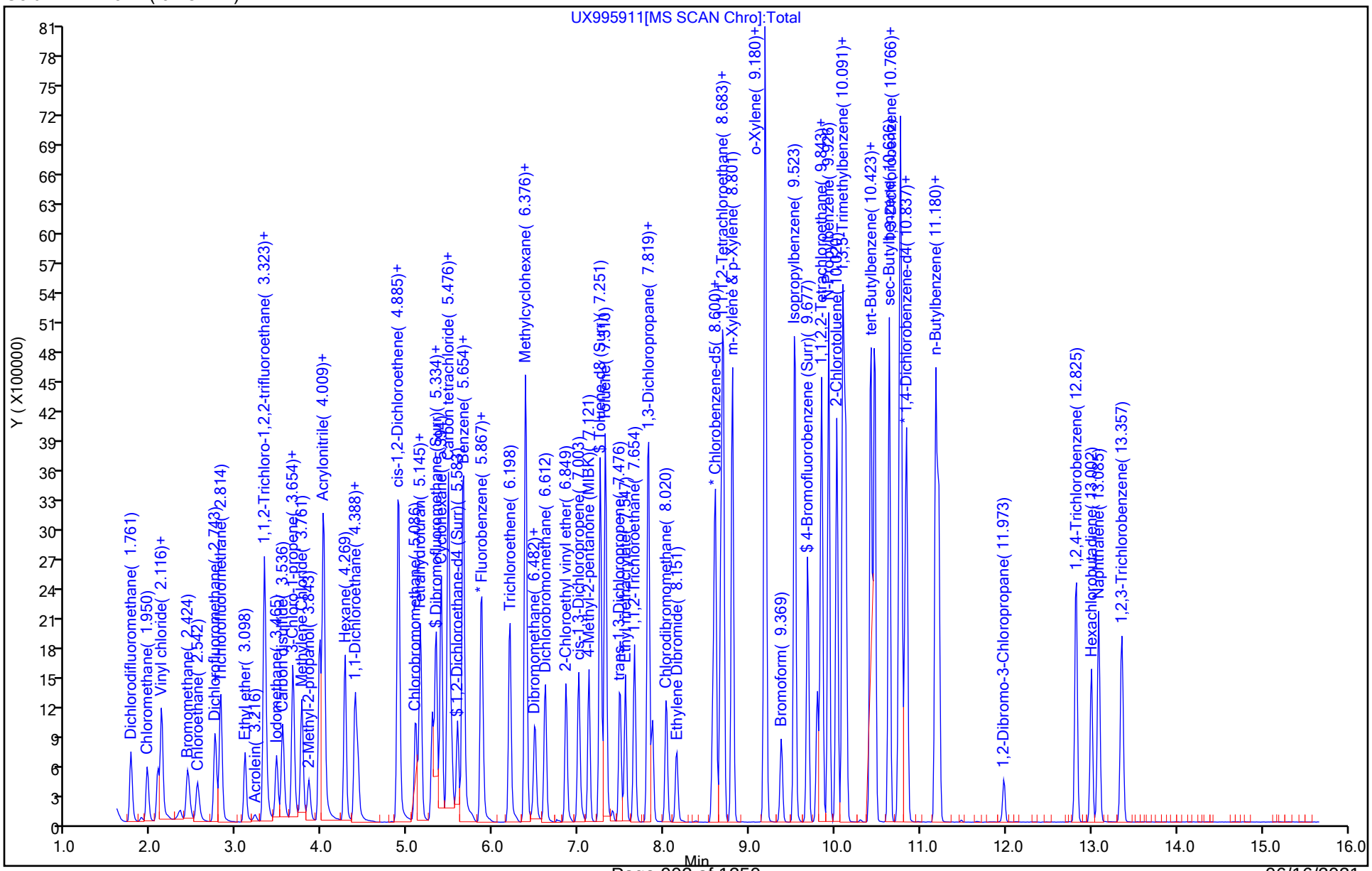
Lims ID: std8260 L5 Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: 8260_9 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995912.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Jun-2021 12:59:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-013
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:43:56 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 13:35:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.876	5.877	-0.001	99	963151	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.575	-0.001	83	802955	20.0	20.0	a
* 3 1,4-Dichlorobenzene-d4	152	10.810	10.812	-0.002	92	462800	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.284	5.286	-0.002	93	1075918	40.0	44.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.580	5.581	-0.001	99	1150388	40.0	42.0	
$ 6 Toluene-d8 (Surr)	98	7.249	7.250	-0.001	92	4122268	40.0	42.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.674	9.676	-0.002	90	1619331	40.0	42.8	
9 Dichlorodifluoromethane	85	1.758	1.759	-0.001	100	1236021	40.0	44.0	
10 Chloromethane	50	1.948	1.949	-0.001	99	1070277	40.0	43.2	
11 Vinyl chloride	62	2.078	2.079	-0.001	99	1092600	40.0	44.6	
12 Butadiene	54	2.113	2.126	-0.013	91	995996	40.0	43.8	
13 Bromomethane	94	2.421	2.434	-0.013	91	797625	40.0	40.2	
15 Chloroethane	64	2.539	2.540	-0.001	99	790809	40.0	43.3	
16 Dichlorofluoromethane	67	2.740	2.742	-0.002	98	1792587	40.0	43.0	
17 Trichlorofluoromethane	101	2.811	2.813	-0.002	100	1840862	40.0	44.0	
18 Ethyl ether	59	3.095	3.097	-0.002	87	737309	40.0	42.9	
21 Acrolein	56	3.214	3.215	-0.001	97	120011	200.0	200.5	
24 1,1-Dichloroethene	61	3.320	3.321	-0.001	97	1437470	40.0	44.3	
22 112TCTFE	101	3.320	3.321	-0.001	93	1095862	40.0	44.5	
23 Acetone	58	3.356	3.357	-0.001	100	125963	80.0	82.5	
25 Iodomethane	142	3.462	3.463	-0.001	98	1369744	40.0	43.1	
26 Carbon disulfide	76	3.533	3.534	-0.001	99	2793775	40.0	43.6	
28 3-Chloro-1-propene	41	3.651	3.653	-0.002	89	1340094	40.0	41.2	
29 Methyl acetate	43	3.663	3.665	-0.002	96	936448	80.0	87.6	
30 Methylene Chloride	49	3.758	3.759	-0.001	86	1147812	40.0	41.9	
31 2-Methyl-2-propanol	59	3.841	3.842	-0.001	100	838211	400.0	415.6	
32 Acrylonitrile	53	3.971	3.972	-0.001	99	2614868	400.0	428.2	
34 trans-1,2-Dichloroethene	61	4.018	4.020	-0.002	91	1356812	40.0	43.2	
33 Methyl tert-butyl ether	73	4.006	4.020	-0.014	94	3018722	40.0	43.2	
35 Hexane	57	4.267	4.268	-0.001	89	1439943	40.0	43.1	
36 1,1-Dichloroethane	63	4.385	4.386	-0.001	96	1810242	40.0	42.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.421	4.422	-0.001	97	1611818	40.0	43.3	
41 2-Butanone (MEK)	72	4.882	4.883	-0.001	98	197101	80.0	88.5	
43 cis-1,2-Dichloroethene	96	4.894	4.883	0.011	83	1225232	40.0	43.5	
42 2,2-Dichloropropane	77	4.894	4.895	-0.001	89	1864283	40.0	42.2	
47 Chlorobromomethane	49	5.083	5.084	-0.001	83	713446	40.0	41.4	
48 Tetrahydrofuran	42	5.142	5.132	0.010	84	410390	80.0	81.6	
49 Chloroform	83	5.154	5.155	-0.001	95	1945766	40.0	43.0	
50 1,1,1-Trichloroethane	97	5.332	5.333	-0.001	97	1956509	40.0	43.6	
51 Cyclohexane	84	5.391	5.392	-0.001	84	1936039	40.0	43.9	
53 Carbon tetrachloride	117	5.474	5.475	-0.001	98	1747146	40.0	43.9	
52 1,1-Dichloropropene	75	5.474	5.475	-0.001	96	1502245	40.0	43.1	
54 Isobutyl alcohol	41	5.509	5.510	-0.001	94	540322	1000.0	1013.5	
56 1,2-Dichloroethane	62	5.651	5.652	-0.001	58	1320008	40.0	42.0	
55 Benzene	78	5.651	5.652	-0.001	95	4215974	40.0	42.0	
58 n-Heptane	71	5.864	5.865	-0.001	85	902289	40.0	41.0	
60 Trichloroethene	130	6.195	6.197	-0.002	95	1262725	40.0	43.0	
62 Methylcyclohexane	83	6.373	6.374	-0.001	88	2046096	40.0	44.6	
63 1,2-Dichloropropane	63	6.385	6.386	-0.001	93	995835	40.0	43.3	
66 Dibromomethane	174	6.491	6.493	-0.002	94	627133	40.0	42.0	
65 1,4-Dioxane	88	6.491	6.493	-0.002	88	203182	800.0	858.2	
67 Dichlorobromomethane	83	6.610	6.611	-0.001	99	1463770	40.0	42.2	
69 2-Chloroethyl vinyl ether	63	6.846	6.848	-0.002	94	955012	80.0	83.5	
71 cis-1,3-Dichloropropene	75	7.000	7.001	-0.001	96	1485242	40.0	41.6	
72 4-Methyl-2-pentanone (MIBK)	43	7.118	7.120	-0.002	94	1395170	80.0	83.6	
73 Toluene	91	7.320	7.309	0.011	99	4817796	40.0	42.4	
74 trans-1,3-Dichloropropene	75	7.485	7.487	-0.002	91	1319348	40.0	41.7	
75 Ethyl methacrylate	69	7.544	7.546	-0.002	86	1202179	40.0	43.1	
76 1,1,2-Trichloroethane	97	7.651	7.652	-0.001	92	907152	40.0	42.0	
77 1,3-Dichloropropane	76	7.817	7.806	0.011	87	1525091	40.0	41.8	
78 Tetrachloroethene	166	7.817	7.818	-0.001	97	1345028	40.0	43.8	
80 2-Hexanone	43	7.864	7.865	-0.001	93	945386	80.0	79.4	
82 Chlorodibromomethane	129	8.030	8.031	-0.001	89	1134292	40.0	43.4	
83 Ethylene Dibromide	107	8.148	8.149	-0.001	99	830068	40.0	41.9	
85 Chlorobenzene	112	8.598	8.599	-0.001	96	3172227	40.0	41.8	
86 1,1,1,2-Tetrachloroethane	131	8.669	8.670	-0.001	96	1258893	40.0	42.7	
87 Ethylbenzene	106	8.692	8.693	-0.001	97	1951500	40.0	43.8	
88 m-Xylene & p-Xylene	106	8.799	8.800	-0.001	100	2416206	40.0	43.7	
89 o-Xylene	106	9.177	9.179	-0.002	95	2343315	40.0	43.5	
90 Styrene	104	9.189	9.190	-0.001	92	3394048	40.0	43.6	
91 Bromoform	173	9.367	9.368	-0.001	96	678909	40.0	45.0	
92 Isopropylbenzene	105	9.532	9.534	-0.002	95	5996566	40.0	43.6	
94 1,1,2,2-Tetrachloroethane	83	9.793	9.794	-0.001	96	1033068	40.0	41.3	
95 Bromobenzene	156	9.840	9.841	-0.001	94	1380008	40.0	41.1	
97 1,2,3-Trichloropropane	110	9.852	9.853	-0.001	80	399955	40.0	41.7	
96 trans-1,4-Dichloro-2-butene	53	9.852	9.853	-0.001	70	276123	40.0	39.7	
98 N-Propylbenzene	120	9.923	9.924	-0.001	98	1753619	40.0	42.6	
100 2-Chlorotoluene	126	10.017	10.019	-0.002	97	1457768	40.0	42.4	
101 1,3,5-Trimethylbenzene	105	10.088	10.090	-0.002	96	4879914	40.0	42.4	
102 4-Chlorotoluene	126	10.124	10.125	-0.001	97	1460590	40.0	41.4	
104 tert-Butylbenzene	119	10.420	10.421	-0.001	90	4937371	40.0	44.2	
106 1,2,4-Trimethylbenzene	105	10.467	10.468	-0.001	94	4840962	40.0	41.9	
107 sec-Butylbenzene	134	10.633	10.634	-0.001	94	1407902	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
108 1,3-Dichlorobenzene	146	10.751	10.752	-0.001	98	2747460	40.0	42.5	
109 4-Isopropyltoluene	119	10.775	10.776	-0.001	96	5303842	40.0	43.0	
110 1,4-Dichlorobenzene	146	10.834	10.835	-0.001	95	2759709	40.0	41.6	
113 n-Butylbenzene	91	11.177	11.178	-0.001	96	4122309	40.0	43.0	
114 1,2-Dichlorobenzene	146	11.213	11.214	-0.001	98	2618043	40.0	41.2	
115 1,2-Dibromo-3-Chloropropane	157	11.982	11.983	-0.001	87	229143	40.0	42.3	
117 1,2,4-Trichlorobenzene	180	12.822	12.823	-0.001	94	1480610	40.0	42.8	
118 Hexachlorobutadiene	225	12.999	13.001	-0.002	98	538996	40.0	45.8	
119 Naphthalene	128	13.082	13.083	-0.001	97	3287269	40.0	41.9	
120 1,2,3-Trichlorobenzene	180	13.354	13.356	-0.002	96	1262905	40.0	43.4	
S 158 Total BTEX	1				0		200.0	215.4	
S 128 1,2-Dichloroethene, Total	96				0			86.6	
S 129 1,3-Dichloropropene, Total	75				0			83.3	
S 130 Trihalomethanes, Total	83				0		160.0	173.6	
S 131 Xylenes, Total	106				0		80.0	87.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

VMRGAS_00388	Amount Added:	32.00	Units: uL
VMAROLISTDW_00395	Amount Added:	32.00	Units: uL
vmrprimw_00439	Amount Added:	32.00	Units: uL
vm50ss_00444	Amount Added:	32.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

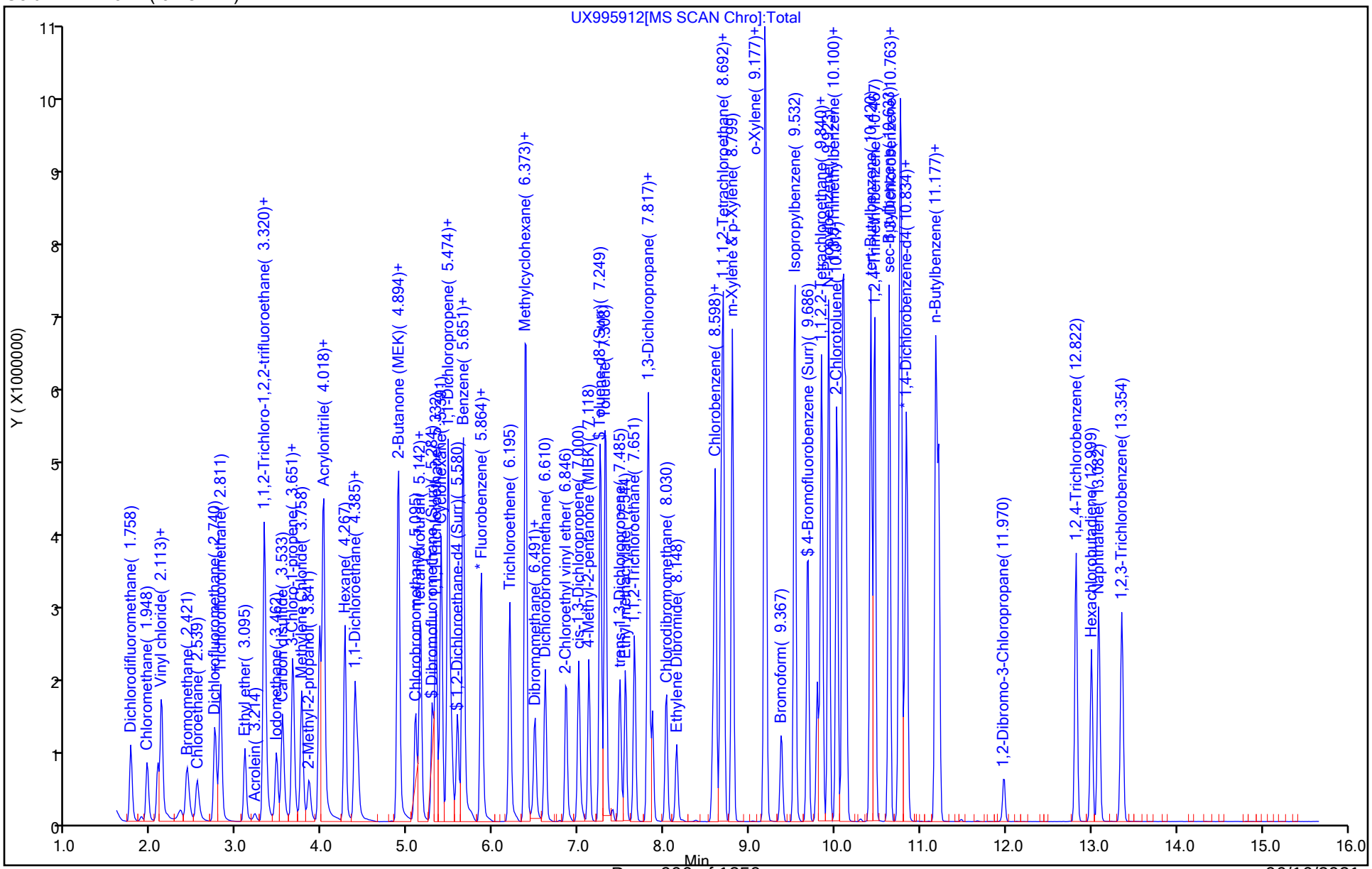
Report Date: 11-Jun-2021 08:43:57 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995912.D

Injection Date:	10-Jun-2021 12:59:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	std8260 L6			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

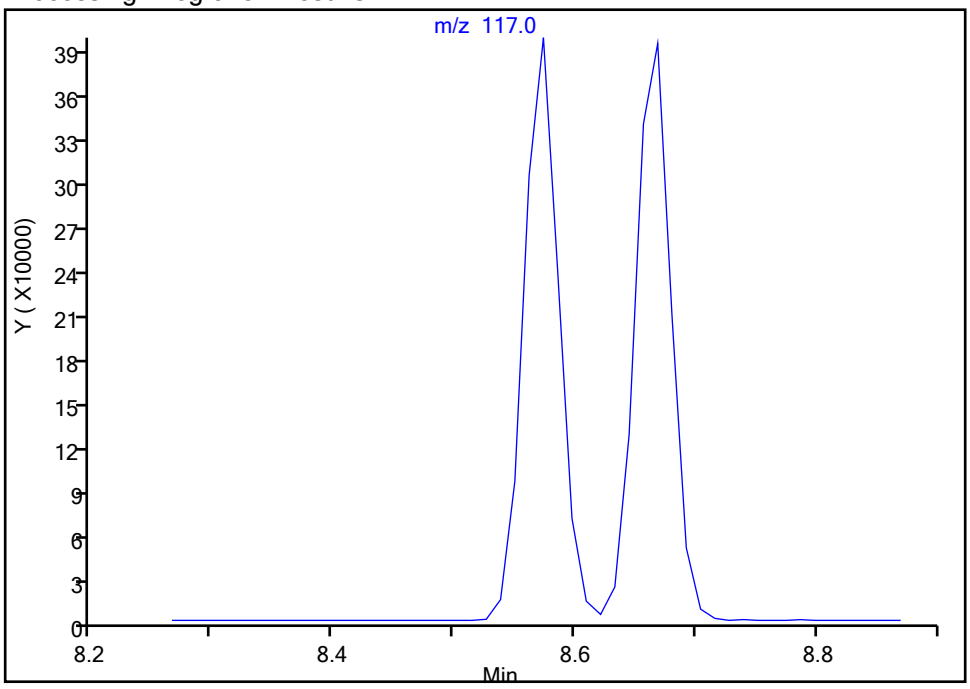
Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995912.D
Injection Date: 10-Jun-2021 12:59:30 Instrument ID: A3UX9
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

* 2 Chlorobenzene-d5, CAS: 3114-55-4

Signal: 1

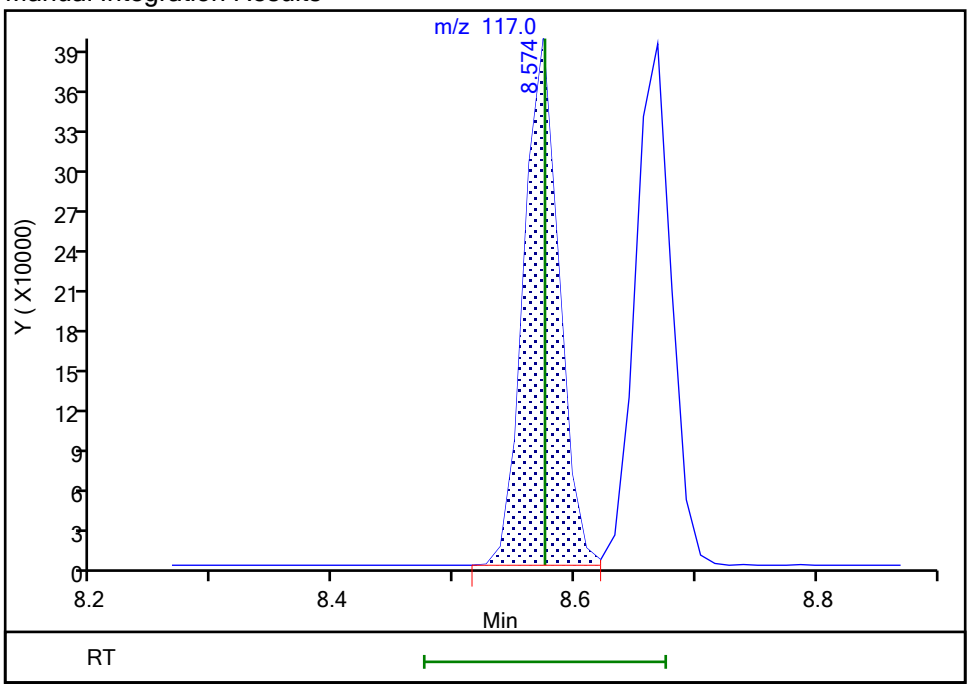
Not Detected
Expected RT: 8.58

Processing Integration Results



Manual Integration Results

RT: 8.57
Area: 802955
Amount: 20.000000
Amount Units: ug/l



Reviewer: bosworthh, 10-Jun-2021 13:36:13
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995913.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Jun-2021 13:21:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-014
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:44:02 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 14:17:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.876	5.877	-0.001	99	1001617	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.575	-0.001	82	841337	20.0	20.0	a
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.812	-0.001	91	479136	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.286	-0.001	93	1579547	60.0	63.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.581	0.000	99	1695698	60.0	59.5	
$ 6 Toluene-d8 (Surr)	98	7.249	7.250	-0.001	92	6039464	60.0	59.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	90	2392735	60.0	60.4	
9 Dichlorodifluoromethane	85	1.759	1.759	0.000	100	1836365	60.0	62.8	
10 Chloromethane	50	1.948	1.949	-0.001	99	1597143	60.0	62.1	
11 Vinyl chloride	62	2.078	2.079	-0.001	99	1631799	60.0	64.1	
12 Butadiene	54	2.114	2.126	-0.012	91	1488635	60.0	63.0	
13 Bromomethane	94	2.409	2.434	-0.025	91	1256092	60.0	60.8	
15 Chloroethane	64	2.528	2.540	-0.012	99	1153070	60.0	60.7	
16 Dichlorofluoromethane	67	2.741	2.742	-0.001	98	2641508	60.0	60.9	
17 Trichlorofluoromethane	101	2.812	2.813	-0.001	99	2758851	60.0	63.4	
18 Ethyl ether	59	3.096	3.097	-0.001	87	1119042	60.0	62.6	
21 Acrolein	56	3.214	3.215	-0.001	98	185008	300.0	297.2	
24 1,1-Dichloroethene	61	3.320	3.321	-0.001	96	2165165	60.0	64.2	
22 112TCTFE	101	3.320	3.321	-0.001	93	1625653	60.0	63.4	
23 Acetone	58	3.356	3.357	-0.001	100	191249	120.0	120.9	
25 Iodomethane	142	3.462	3.463	-0.001	99	1994459	60.0	60.4	
26 Carbon disulfide	76	3.533	3.534	-0.001	99	4267009	60.0	64.0	
28 3-Chloro-1-propene	41	3.652	3.653	-0.001	88	2026041	60.0	59.9	
29 Methyl acetate	43	3.664	3.665	-0.001	96	1423436	120.0	128.0	
30 Methylene Chloride	49	3.758	3.759	-0.001	87	1764659	60.0	61.9	
31 2-Methyl-2-propanol	59	3.853	3.842	0.011	100	1272029	600.0	606.5	
32 Acrylonitrile	53	3.971	3.972	-0.001	99	3966707	600.0	624.7	
34 trans-1,2-Dichloroethene	61	4.019	4.020	-0.001	90	2065018	60.0	63.2	
33 Methyl tert-butyl ether	73	4.007	4.020	-0.013	94	4574926	60.0	63.0	
35 Hexane	57	4.267	4.268	-0.001	89	2112291	60.0	60.8	
36 1,1-Dichloroethane	63	4.385	4.386	-0.001	96	2785862	60.0	62.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.421	4.422	-0.001	96	2457176	60.0	63.5	
41 2-Butanone (MEK)	72	4.882	4.883	-0.001	56	300370	120.0	129.7	
43 cis-1,2-Dichloroethene	96	4.882	4.883	-0.001	81	1890516	60.0	64.5	
42 2,2-Dichloropropane	77	4.894	4.895	-0.001	86	2840346	60.0	61.8	
47 Chlorobromomethane	49	5.084	5.084	0.000	83	1090338	60.0	60.9	
48 Tetrahydrofuran	42	5.131	5.132	-0.001	83	622863	120.0	119.1	
49 Chloroform	83	5.155	5.155	0.000	94	2965140	60.0	63.0	
50 1,1,1-Trichloroethane	97	5.332	5.333	-0.001	97	2975641	60.0	63.7	
51 Cyclohexane	84	5.391	5.392	-0.001	84	2851434	60.0	62.2	
53 Carbon tetrachloride	117	5.474	5.475	-0.001	99	2663559	60.0	64.4	
52 1,1-Dichloropropene	75	5.474	5.475	-0.001	97	2273239	60.0	62.7	
54 Isobutyl alcohol	41	5.510	5.510	0.000	93	822401	1500.0	1483.4	
56 1,2-Dichloroethane	62	5.652	5.652	0.000	58	2006081	60.0	61.3	
55 Benzene	78	5.652	5.652	0.000	95	6348623	60.0	60.9	
58 n-Heptane	71	5.853	5.865	-0.012	86	1335862	60.0	58.4	
60 Trichloroethene	130	6.196	6.197	-0.001	95	1913325	60.0	62.7	
62 Methylcyclohexane	83	6.373	6.374	-0.001	87	3017705	60.0	63.3	
63 1,2-Dichloropropane	63	6.385	6.386	-0.001	91	1537187	60.0	64.3	
65 1,4-Dioxane	88	6.492	6.493	-0.001	88	315776	1200.0	1282.6	
66 Dibromomethane	174	6.492	6.493	-0.001	93	965291	60.0	62.2	
67 Dichlorobromomethane	83	6.610	6.611	-0.001	100	2253993	60.0	62.5	
69 2-Chloroethyl vinyl ether	63	6.847	6.848	-0.001	94	1421533	120.0	119.5	
71 cis-1,3-Dichloropropene	75	7.000	7.001	-0.001	96	2245777	60.0	60.5	
72 4-Methyl-2-pentanone (MIBK)	43	7.119	7.120	-0.001	94	2122386	120.0	122.3	
73 Toluene	91	7.308	7.309	-0.001	99	7224633	60.0	60.7	
74 trans-1,3-Dichloropropene	75	7.486	7.487	-0.001	91	1977472	60.0	59.7	
75 Ethyl methacrylate	69	7.545	7.546	-0.001	86	1858101	60.0	63.5	
76 1,1,2-Trichloroethane	97	7.651	7.652	-0.001	91	1390117	60.0	61.5	
77 1,3-Dichloropropane	76	7.817	7.806	0.011	87	2332658	60.0	61.1	
78 Tetrachloroethene	166	7.817	7.818	-0.001	97	2029397	60.0	63.0	
80 2-Hexanone	43	7.864	7.865	-0.001	93	1443420	120.0	115.7	
82 Chlorodibromomethane	129	8.030	8.031	-0.001	90	1747028	60.0	63.9	
83 Ethylene Dibromide	107	8.148	8.149	-0.001	99	1270381	60.0	61.3	
85 Chlorobenzene	112	8.598	8.599	-0.001	96	4799803	60.0	60.4	
86 1,1,1,2-Tetrachloroethane	131	8.669	8.670	-0.001	96	1946681	60.0	63.1	
87 Ethylbenzene	106	8.693	8.693	0.000	97	2929579	60.0	62.7	
88 m-Xylene & p-Xylene	106	8.799	8.800	-0.001	99	3642174	60.0	62.9	
89 o-Xylene	106	9.178	9.179	-0.001	95	3580646	60.0	63.4	
90 Styrene	104	9.190	9.190	0.000	92	5154339	60.0	63.2	
91 Bromoform	173	9.367	9.368	-0.001	96	1046217	60.0	66.1	
92 Isopropylbenzene	105	9.533	9.534	-0.001	95	8922426	60.0	61.9	
94 1,1,2,2-Tetrachloroethane	83	9.793	9.794	-0.001	96	1586146	60.0	61.3	
95 Bromobenzene	156	9.840	9.841	-0.001	94	2117833	60.0	60.9	
97 1,2,3-Trichloropropane	110	9.852	9.853	-0.001	81	605120	60.0	60.9	
96 trans-1,4-Dichloro-2-butene	53	9.852	9.853	-0.001	70	425330	60.0	59.0	
98 N-Propylbenzene	120	9.923	9.924	-0.001	98	2639030	60.0	62.0	
100 2-Chlorotoluene	126	10.018	10.019	-0.001	97	2204795	60.0	61.9	
101 1,3,5-Trimethylbenzene	105	10.089	10.090	-0.001	95	7351113	60.0	61.6	
102 4-Chlorotoluene	126	10.124	10.125	-0.001	97	2252236	60.0	61.7	
104 tert-Butylbenzene	119	10.420	10.421	-0.001	90	7502134	60.0	64.9	
106 1,2,4-Trimethylbenzene	105	10.467	10.468	-0.001	94	7346916	60.0	61.4	
107 sec-Butylbenzene	134	10.633	10.634	-0.001	94	2098844	60.0	62.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.751	10.752	-0.001	98	4156247	60.0	62.1	
109 4-Isopropyltoluene	119	10.775	10.776	-0.001	96	7879425	60.0	61.7	
110 1,4-Dichlorobenzene	146	10.846	10.835	0.011	95	4161209	60.0	60.6	
113 n-Butylbenzene	91	11.177	11.178	-0.001	96	6138402	60.0	61.8	
114 1,2-Dichlorobenzene	146	11.213	11.214	-0.001	98	3981384	60.0	60.6	
115 1,2-Dibromo-3-Chloropropane	157	11.982	11.983	-0.001	90	362312	60.0	64.6	
117 1,2,4-Trichlorobenzene	180	12.822	12.823	-0.001	94	2282508	60.0	63.7	
118 Hexachlorobutadiene	225	13.000	13.001	-0.001	98	800191	60.0	65.7	
119 Naphthalene	128	13.083	13.083	0.000	97	5076964	60.0	62.4	
120 1,2,3-Trichlorobenzene	180	13.355	13.356	-0.001	96	1924834	60.0	63.8	
S 158 Total BTEX	1				0		300.0	310.5	
S 128 1,2-Dichloroethene, Total	96				0			127.7	
S 129 1,3-Dichloropropene, Total	75				0			120.2	
S 130 Trihalomethanes, Total	83				0		240.0	255.5	
S 131 Xylenes, Total	106				0		120.0	126.3	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

VMRGAS_00388	Amount Added:	48.00	Units: uL
VMAROLISTDW_00395	Amount Added:	48.00	Units: uL
vmrprimw_00439	Amount Added:	48.00	Units: uL
vm50ss_00444	Amount Added:	48.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

Report Date: 11-Jun-2021 08:44:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995913.D

Injection Date: 10-Jun-2021 13:21:30 Instrument ID: A3UX9 Operator ID: 001765

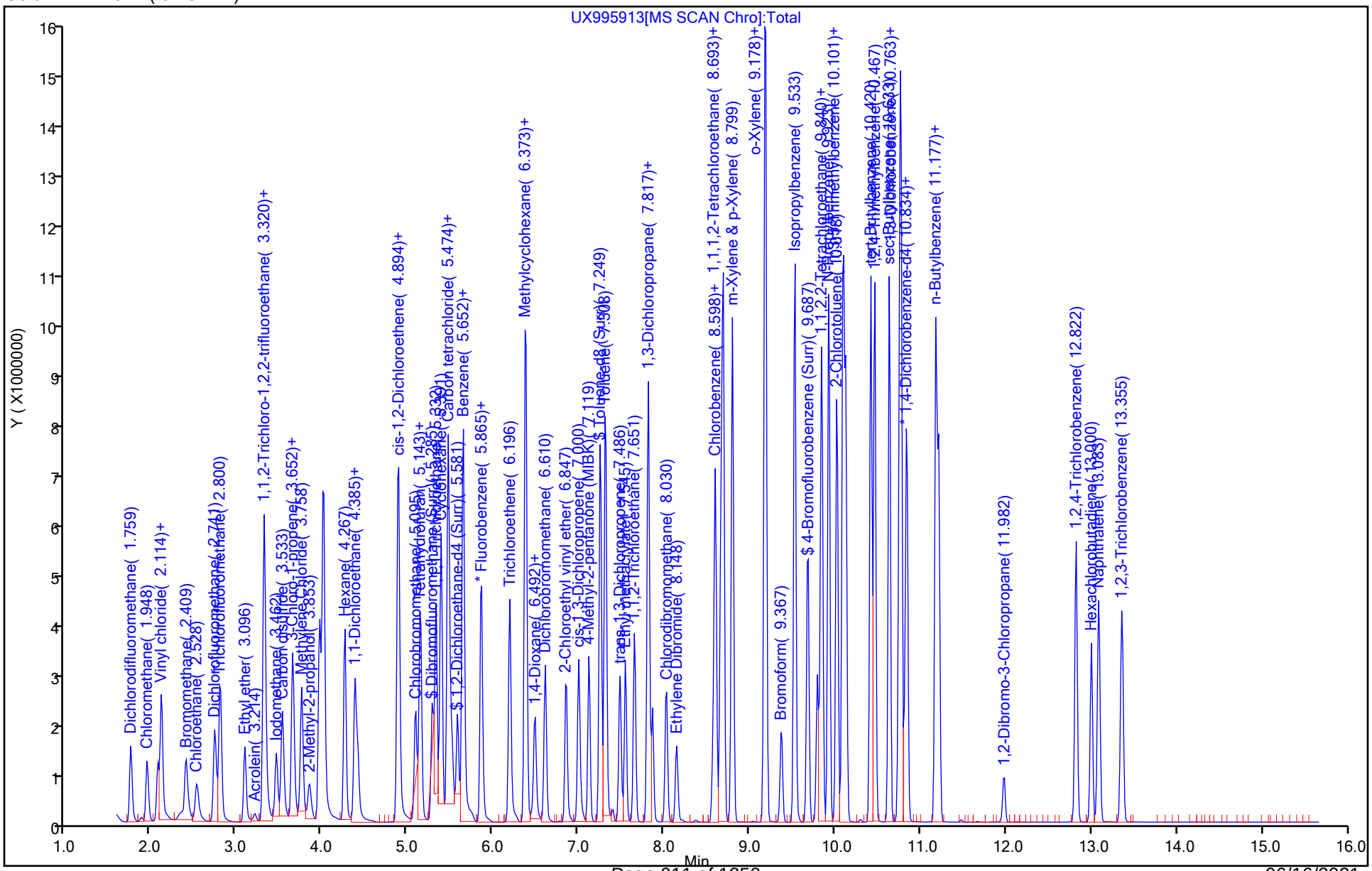
Lims ID: std8260 L7 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 14

Method: 8260_9 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

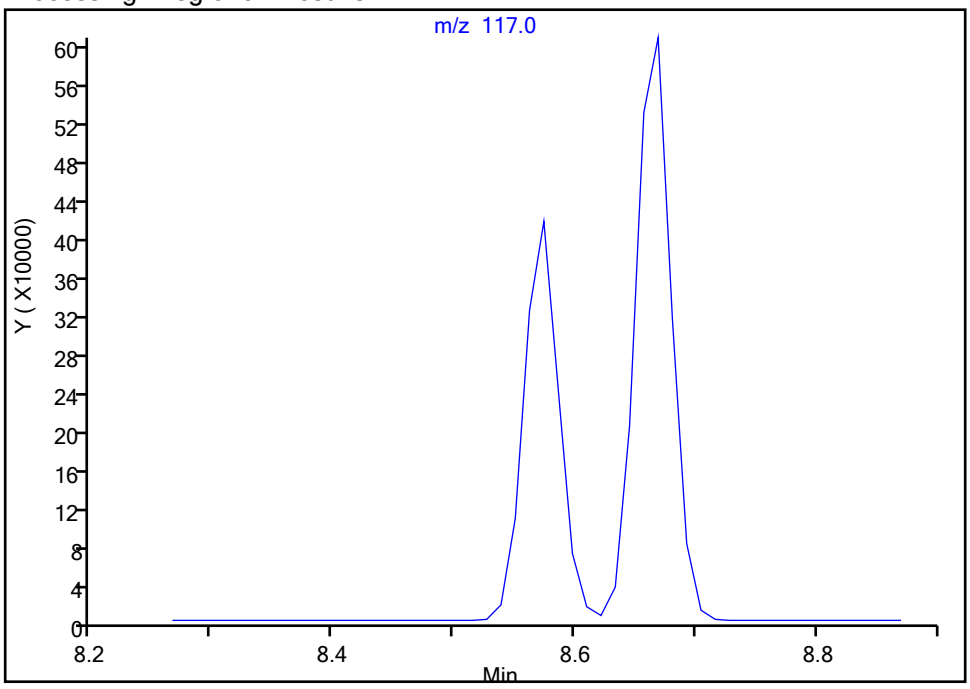
Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995913.D
Injection Date: 10-Jun-2021 13:21:30 Instrument ID: A3UX9
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

* 2 Chlorobenzene-d5, CAS: 3114-55-4

Signal: 1

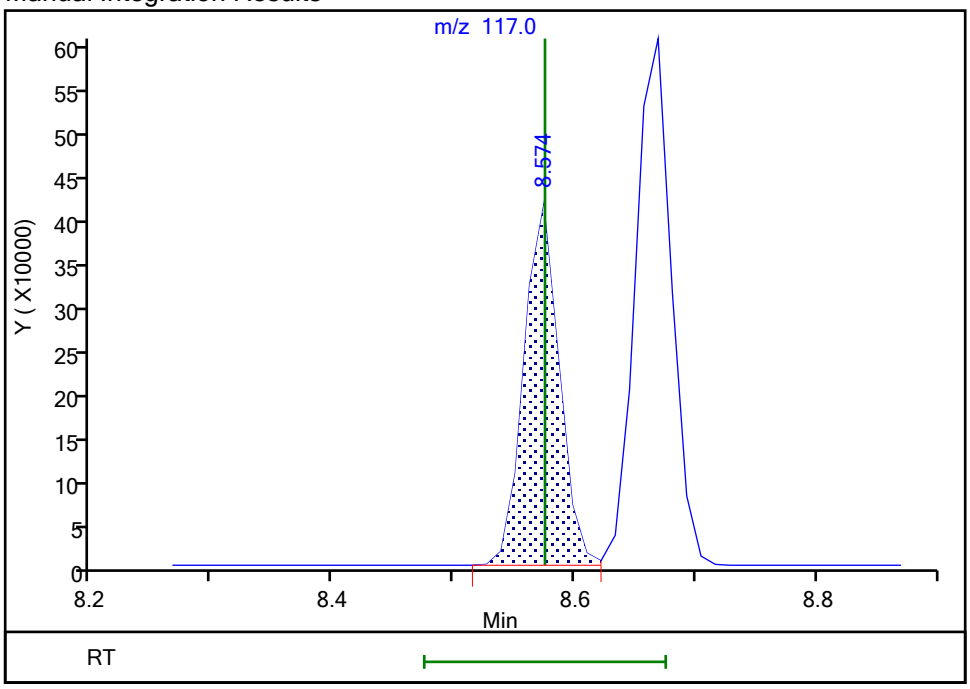
Not Detected
Expected RT: 8.58

Processing Integration Results



RT: 8.57
Area: 841337
Amount: 20.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: bosworthh, 10-Jun-2021 14:16:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

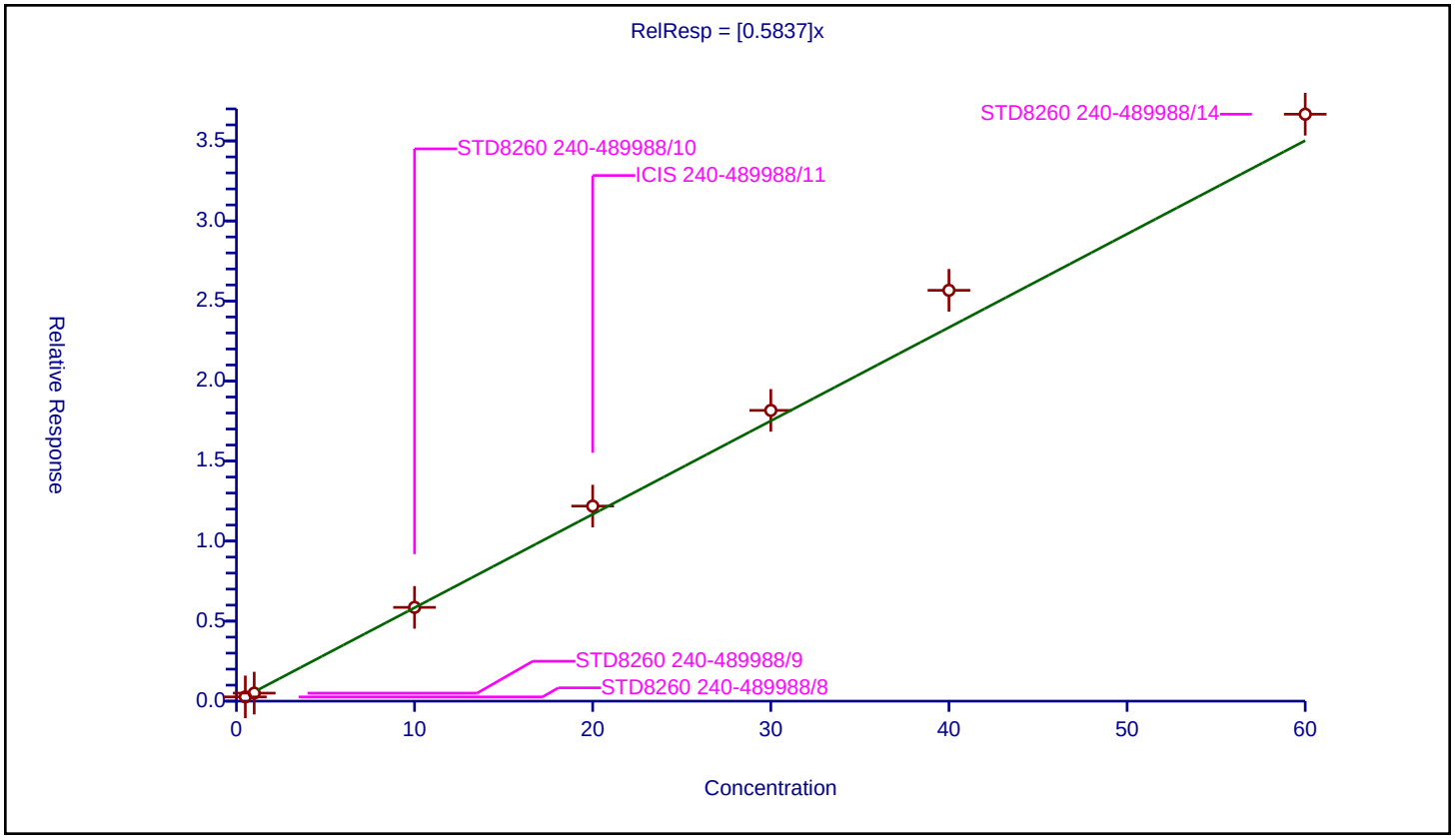
Curve Coefficients

Intercept:	0
Slope:	0.5837

Error Coefficients

Standard Error:	1010000
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 240-489988/8	0.5	0.265475	20.0	969129.0	0.530951	Y
2	STD8260 240-489988/9	1.0	0.50146	20.0	966538.0	0.50146	Y
3	STD8260 240-489988/10	10.0	5.857989	20.0	994273.0	0.585799	Y
4	ICIS 240-489988/11	20.0	12.185601	20.0	941178.0	0.60928	Y
5	STD8260 240-489988/12	30.0	18.164036	20.0	966359.0	0.605468	Y
6	STD8260 240-489988/13	40.0	25.666194	20.0	963151.0	0.641655	Y
7	STD8260 240-489988/14	60.0	36.668008	20.0	1001617.0	0.611133	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

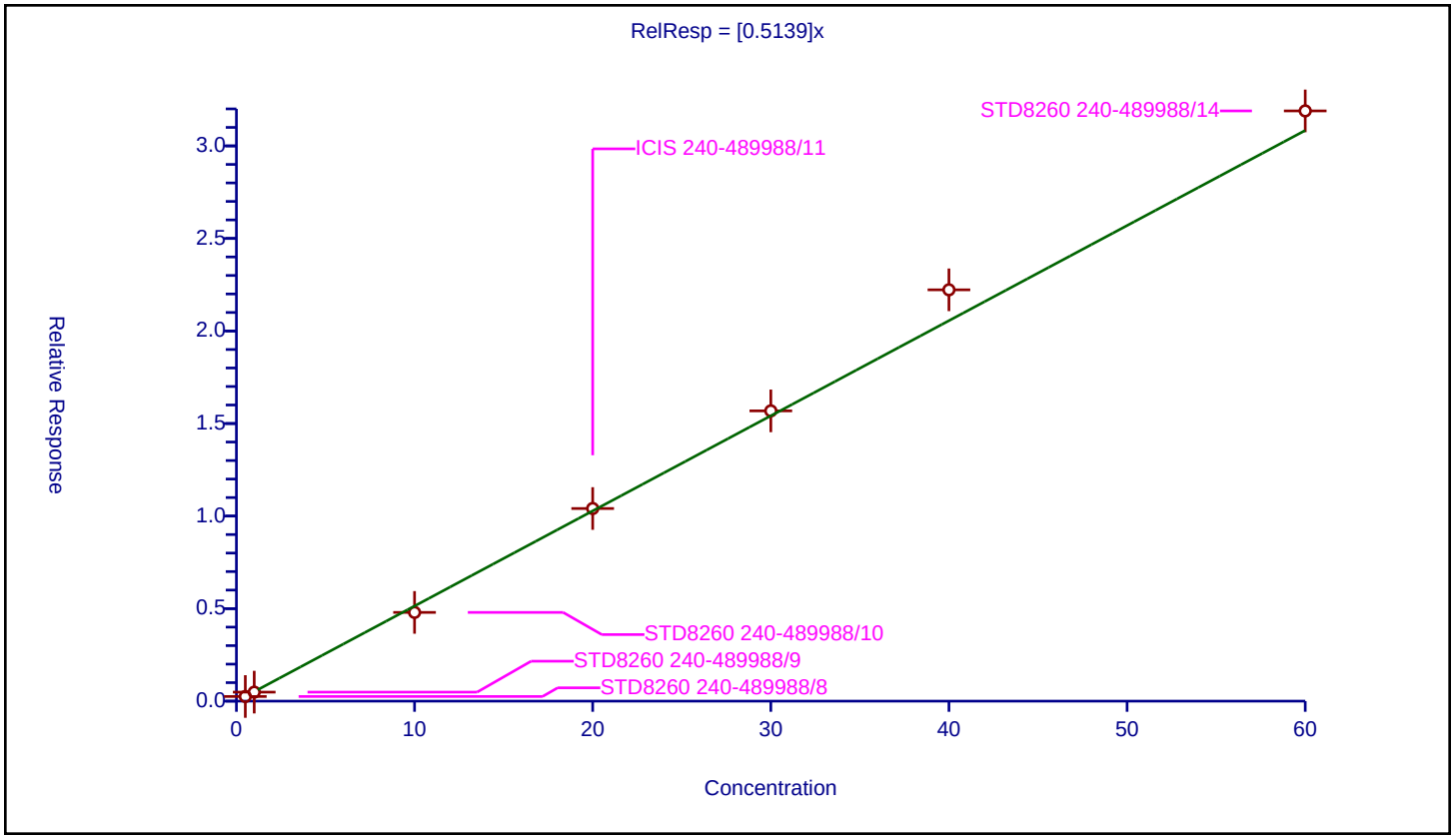
Curve Coefficients

Intercept:	0
Slope:	0.5139

Error Coefficients

Standard Error:	873000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.250741	20.0	969129.0	0.501481	Y
2	STD8260 240-489988/9	1.0	0.486396	20.0	966538.0	0.486396	Y
3	STD8260 240-489988/10	10.0	4.793834	20.0	994273.0	0.479383	Y
4	ICIS 240-489988/11	20.0	10.407532	20.0	941178.0	0.520377	Y
5	STD8260 240-489988/12	30.0	15.683281	20.0	966359.0	0.522776	Y
6	STD8260 240-489988/13	40.0	22.22449	20.0	963151.0	0.555612	Y
7	STD8260 240-489988/14	60.0	31.891292	20.0	1001617.0	0.531522	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

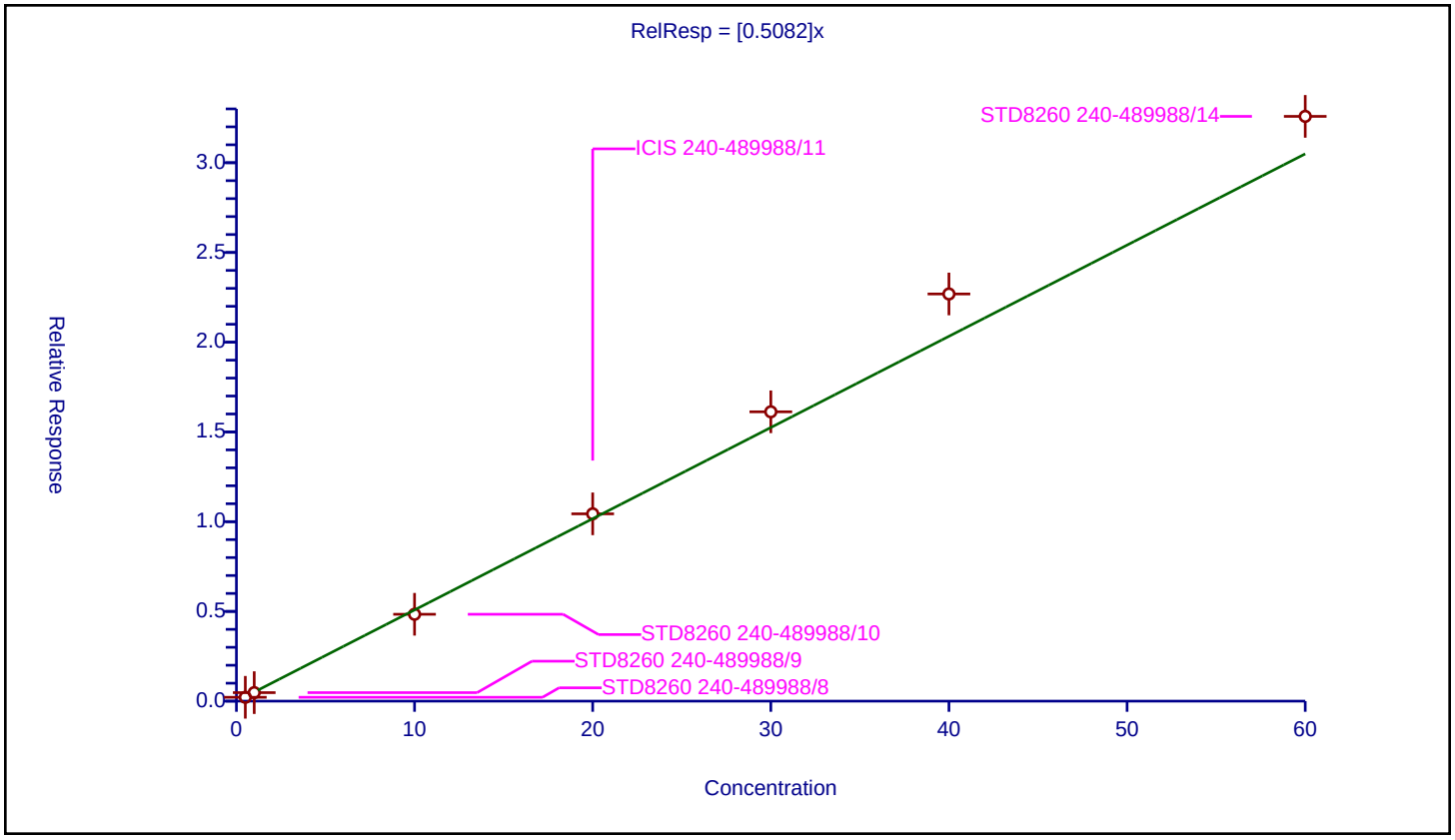
Curve Coefficients

Intercept:	0
Slope:	0.5082

Error Coefficients

Standard Error:	891000
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	STD8260 240-489988/8	0.5	0.214667	20.0	969129.0	0.429334	Y
2	STD8260 240-489988/9	1.0	0.474663	20.0	966538.0	0.474663	Y
3	STD8260 240-489988/10	10.0	4.84028	20.0	994273.0	0.484028	Y
4	ICIS 240-489988/11	20.0	10.437112	20.0	941178.0	0.521856	Y
5	STD8260 240-489988/12	30.0	16.122083	20.0	966359.0	0.537403	Y
6	STD8260 240-489988/13	40.0	22.688031	20.0	963151.0	0.567201	Y
7	STD8260 240-489988/14	60.0	32.583293	20.0	1001617.0	0.543055	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

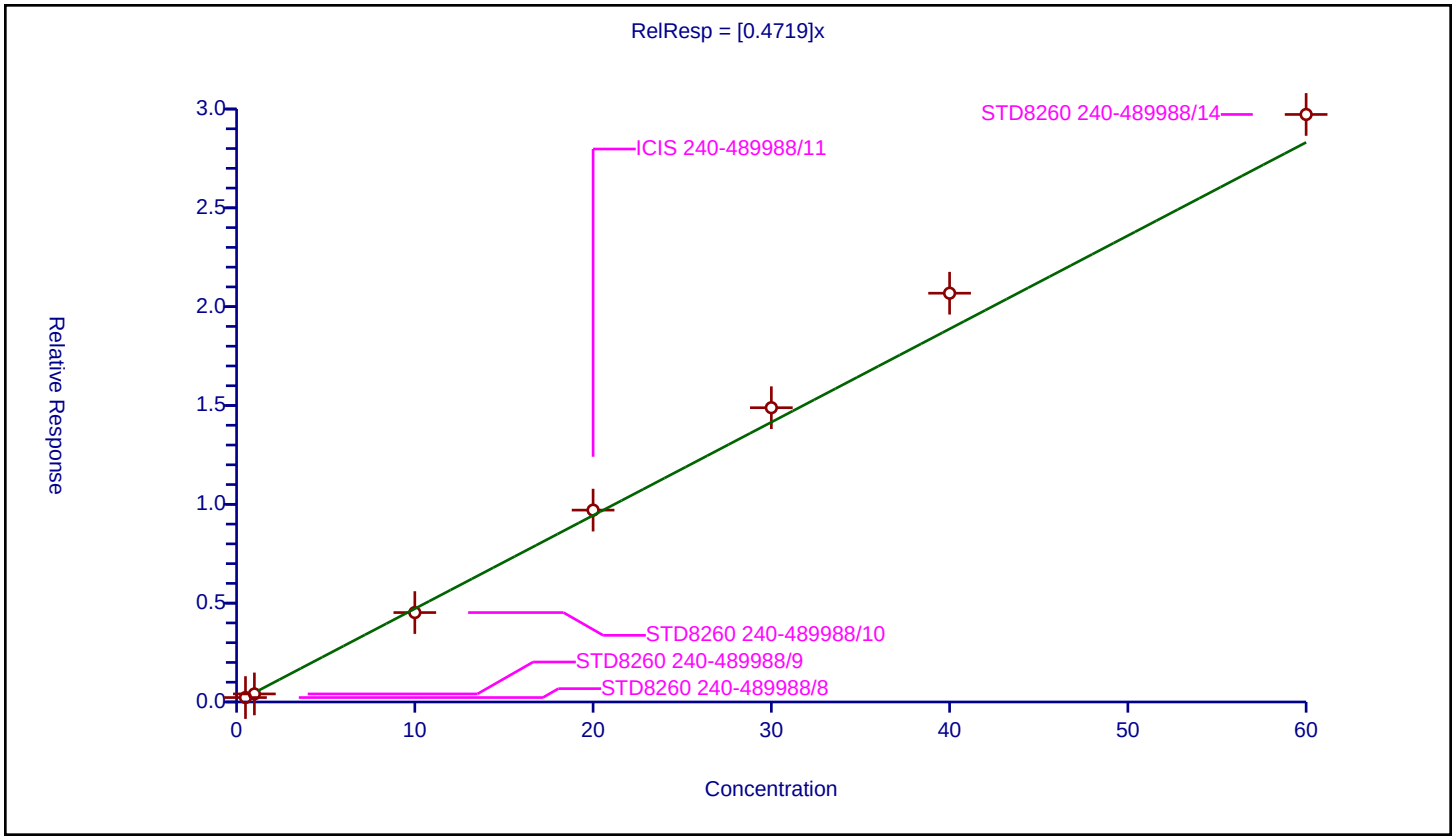
Curve Coefficients

Intercept:	0
Slope:	0.4719

Error Coefficients

Standard Error:	815000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.224408	20.0	969129.0	0.448815	Y
2	STD8260 240-489988/9	1.0	0.407765	20.0	966538.0	0.407765	Y
3	STD8260 240-489988/10	10.0	4.523949	20.0	994273.0	0.452395	Y
4	ICIS 240-489988/11	20.0	9.707005	20.0	941178.0	0.48535	Y
5	STD8260 240-489988/12	30.0	14.88898	20.0	966359.0	0.496299	Y
6	STD8260 240-489988/13	40.0	20.682032	20.0	963151.0	0.517051	Y
7	STD8260 240-489988/14	60.0	29.724635	20.0	1001617.0	0.495411	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

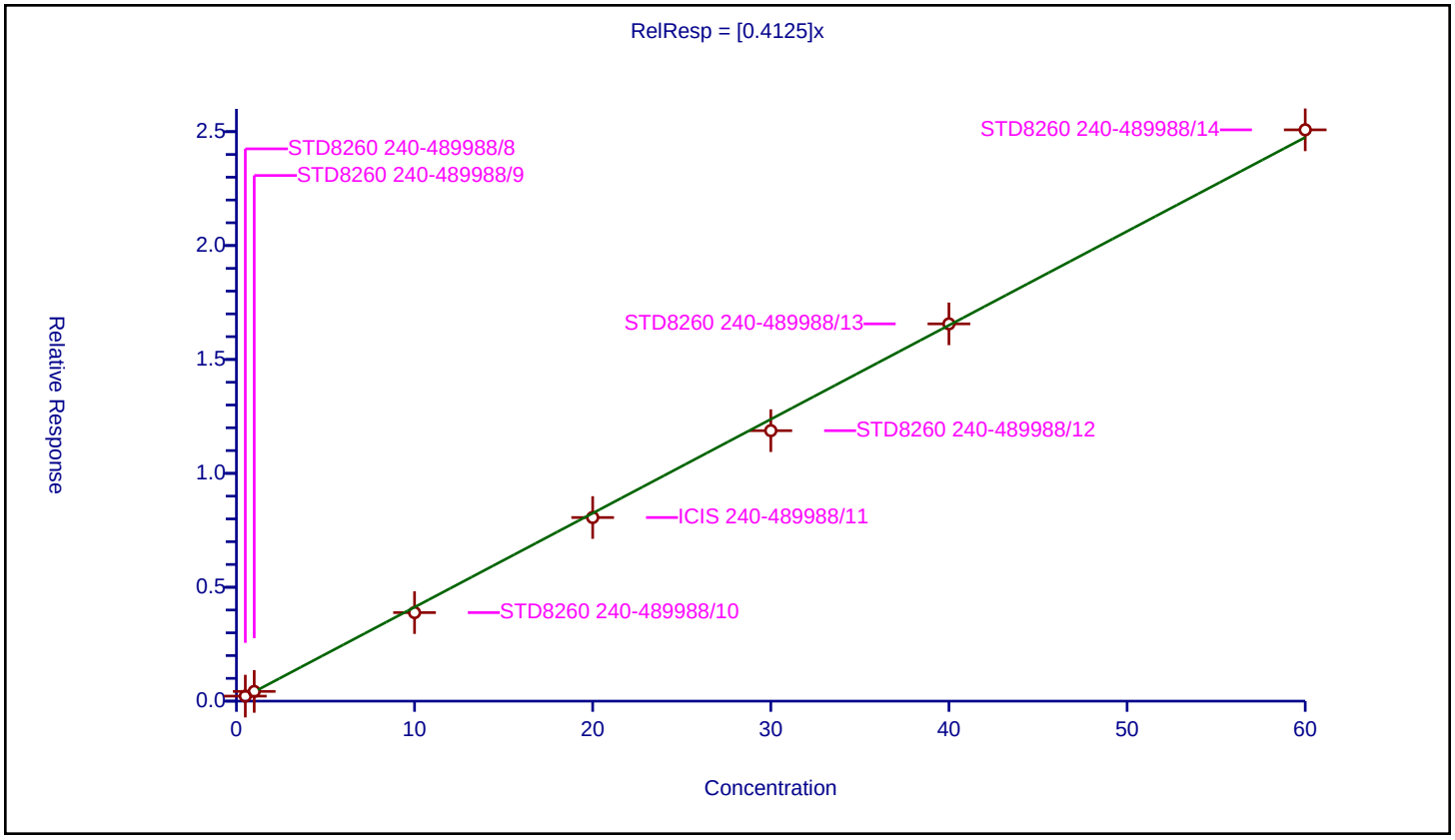
Curve Coefficients

Intercept:	0
Slope:	0.4125

Error Coefficients

Standard Error:	674000
Relative Standard Error:	4.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.220404	20.0	969129.0	0.440808	Y
2	STD8260 240-489988/9	1.0	0.427009	20.0	966538.0	0.427009	Y
3	STD8260 240-489988/10	10.0	3.887001	20.0	994273.0	0.3887	Y
4	ICIS 240-489988/11	20.0	8.061684	20.0	941178.0	0.403084	Y
5	STD8260 240-489988/12	30.0	11.874366	20.0	966359.0	0.395812	Y
6	STD8260 240-489988/13	40.0	16.562823	20.0	963151.0	0.414071	Y
7	STD8260 240-489988/14	60.0	25.081284	20.0	1001617.0	0.418021	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

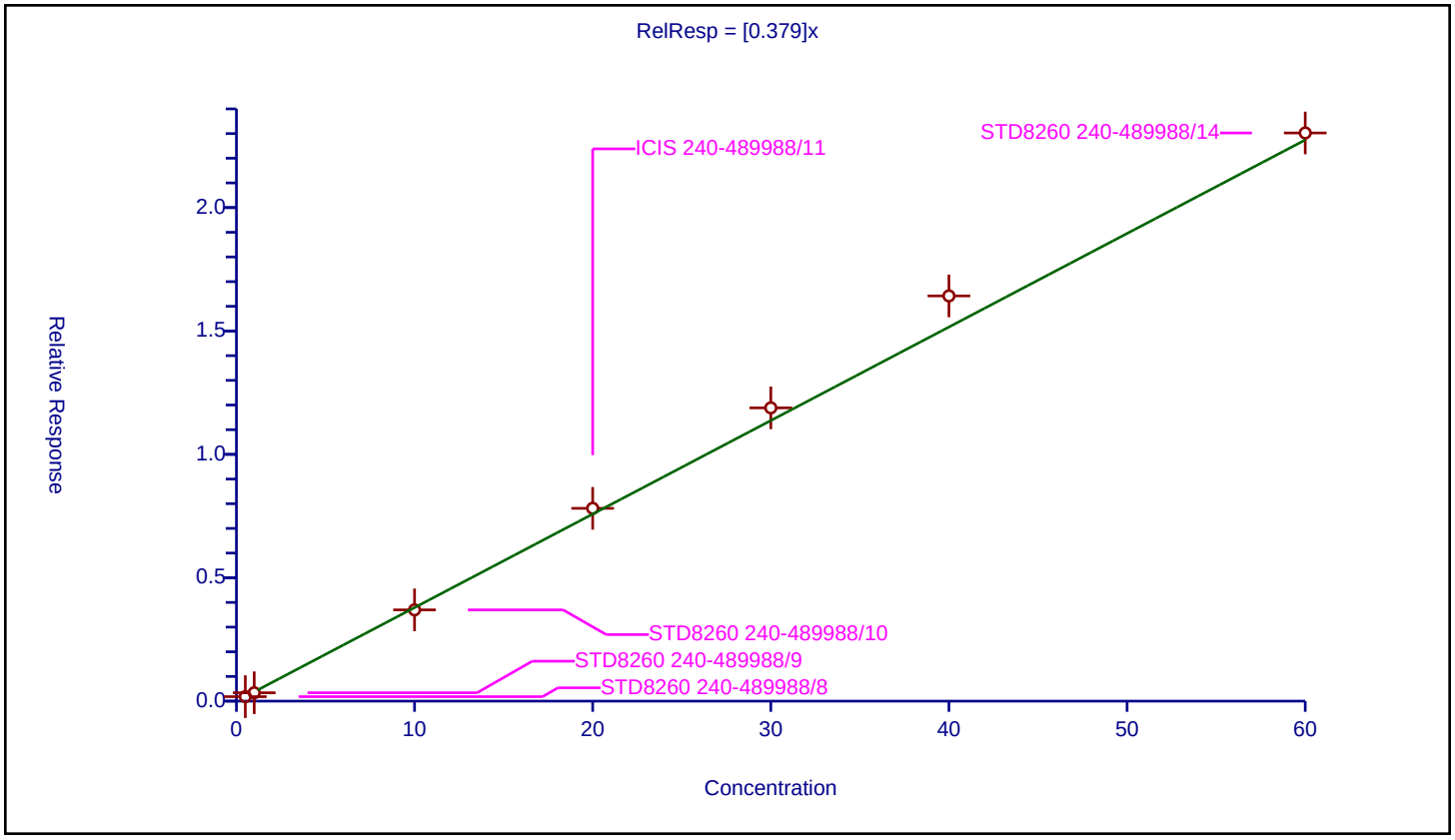
Curve Coefficients

Intercept:	0
Slope:	0.379

Error Coefficients

Standard Error:	640000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.181462	20.0	969129.0	0.362924	Y
2	STD8260 240-489988/9	1.0	0.339293	20.0	966538.0	0.339293	Y
3	STD8260 240-489988/10	10.0	3.69834	20.0	994273.0	0.369834	Y
4	ICIS 240-489988/11	20.0	7.813485	20.0	941178.0	0.390674	Y
5	STD8260 240-489988/12	30.0	11.885293	20.0	966359.0	0.396176	Y
6	STD8260 240-489988/13	40.0	16.421288	20.0	963151.0	0.410532	Y
7	STD8260 240-489988/14	60.0	23.02417	20.0	1001617.0	0.383736	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

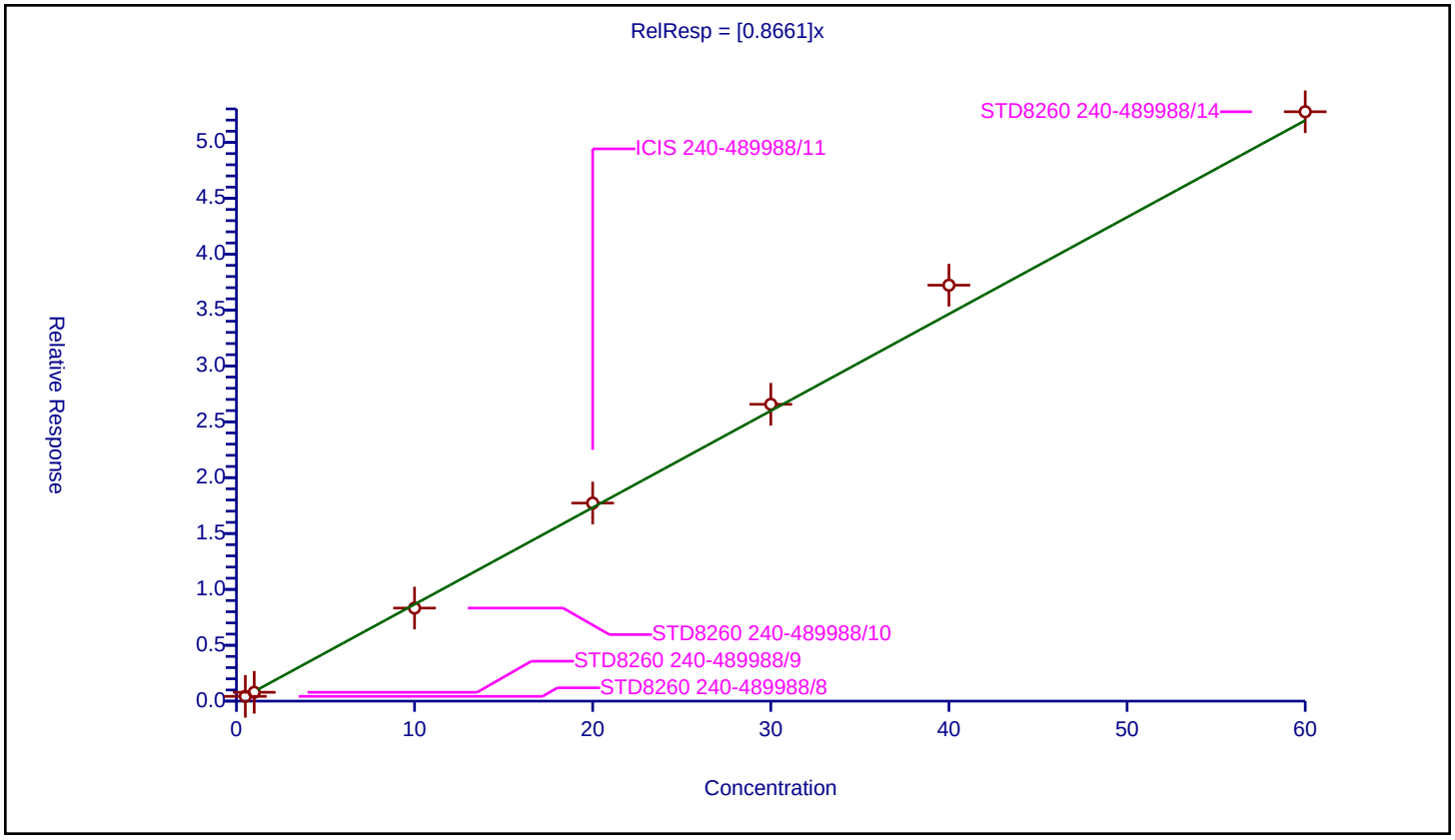
Curve Coefficients

Intercept:	0
Slope:	0.8661

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.42824	20.0	969129.0	0.85648	Y
2	STD8260 240-489988/9	1.0	0.792085	20.0	966538.0	0.792085	Y
3	STD8260 240-489988/10	10.0	8.329664	20.0	994273.0	0.832966	Y
4	ICIS 240-489988/11	20.0	17.724086	20.0	941178.0	0.886204	Y
5	STD8260 240-489988/12	30.0	26.564082	20.0	966359.0	0.885469	Y
6	STD8260 240-489988/13	40.0	37.223384	20.0	963151.0	0.930585	Y
7	STD8260 240-489988/14	60.0	52.744872	20.0	1001617.0	0.879081	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

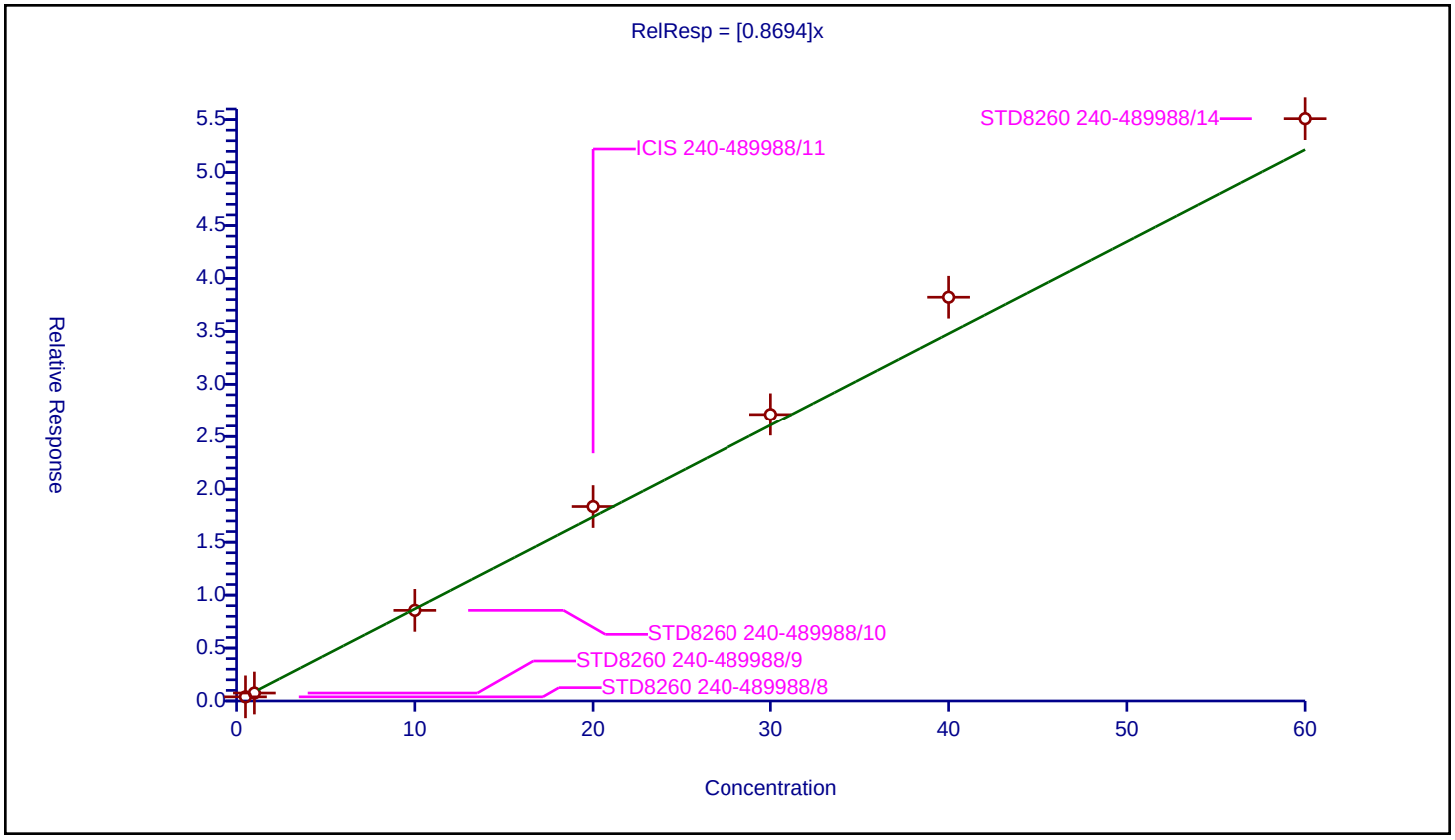
Curve Coefficients

Intercept:	0
Slope:	0.8694

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.391857	20.0	969129.0	0.783714	Y
2	STD8260 240-489988/9	1.0	0.750493	20.0	966538.0	0.750493	Y
3	STD8260 240-489988/10	10.0	8.55944	20.0	994273.0	0.855944	Y
4	ICIS 240-489988/11	20.0	18.364433	20.0	941178.0	0.918222	Y
5	STD8260 240-489988/12	30.0	27.116217	20.0	966359.0	0.903874	Y
6	STD8260 240-489988/13	40.0	38.225823	20.0	963151.0	0.955646	Y
7	STD8260 240-489988/14	60.0	55.087943	20.0	1001617.0	0.918132	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

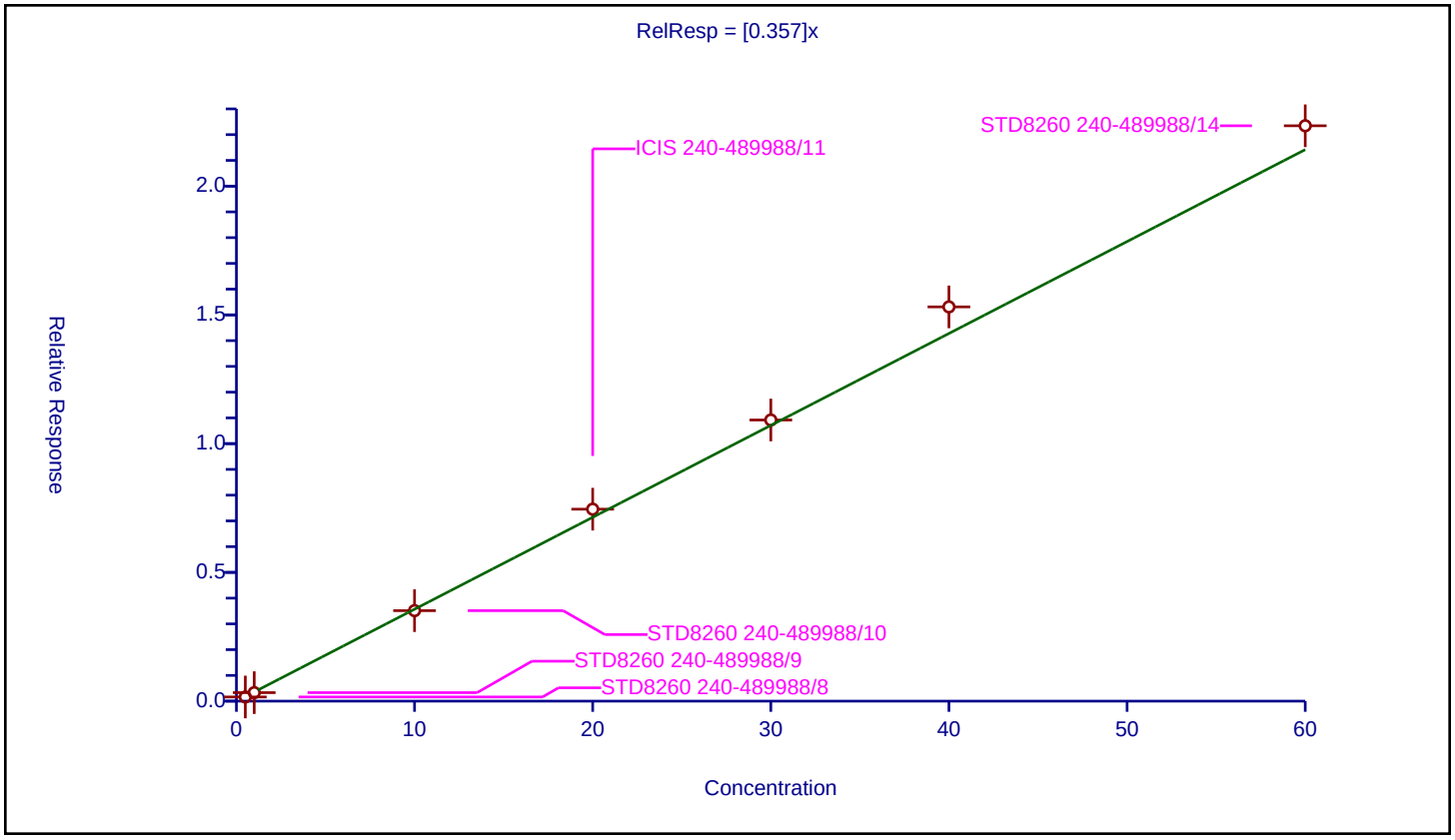
Curve Coefficients

Intercept:	0
Slope:	0.357

Error Coefficients

Standard Error:	609000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.162373	20.0	969129.0	0.324745	Y
2	STD8260 240-489988/9	1.0	0.330685	20.0	966538.0	0.330685	Y
3	STD8260 240-489988/10	10.0	3.514487	20.0	994273.0	0.351449	Y
4	ICIS 240-489988/11	20.0	7.455317	20.0	941178.0	0.372766	Y
5	STD8260 240-489988/12	30.0	10.918385	20.0	966359.0	0.363946	Y
6	STD8260 240-489988/13	40.0	15.310351	20.0	963151.0	0.382759	Y
7	STD8260 240-489988/14	60.0	22.344709	20.0	1001617.0	0.372412	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

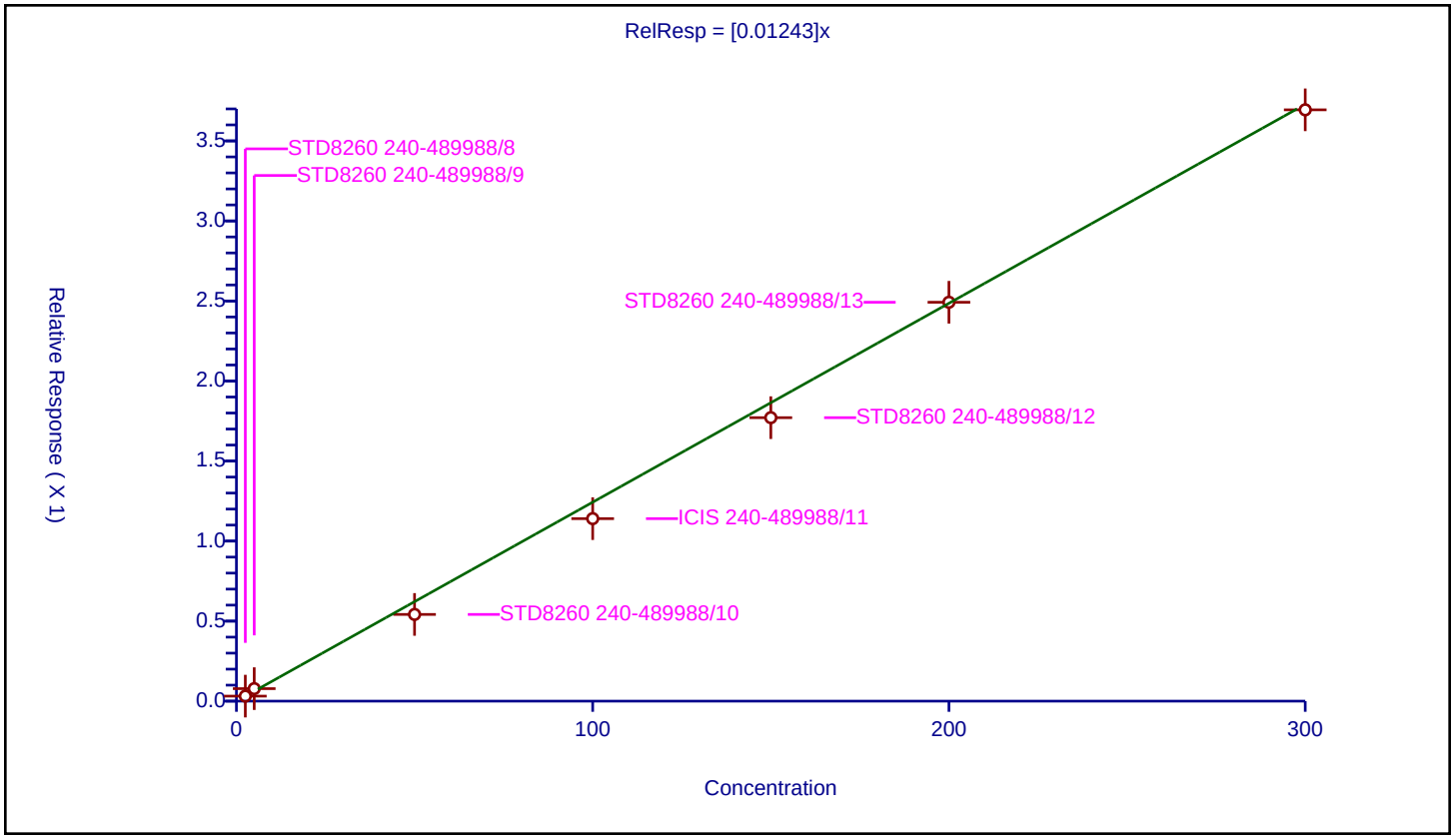
Curve Coefficients

Intercept:	0
Slope:	0.01243

Error Coefficients

Standard Error:	99600
Relative Standard Error:	12.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	2.5	0.031389	20.0	969129.0	0.012556	Y
2	STD8260 240-489988/9	5.0	0.078135	20.0	966538.0	0.015627	Y
3	STD8260 240-489988/10	50.0	0.541702	20.0	994273.0	0.010834	Y
4	ICIS 240-489988/11	100.0	1.140231	20.0	941178.0	0.011402	Y
5	STD8260 240-489988/12	150.0	1.770998	20.0	966359.0	0.011807	Y
6	STD8260 240-489988/13	200.0	2.49205	20.0	963151.0	0.01246	Y
7	STD8260 240-489988/14	300.0	3.694187	20.0	1001617.0	0.012314	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

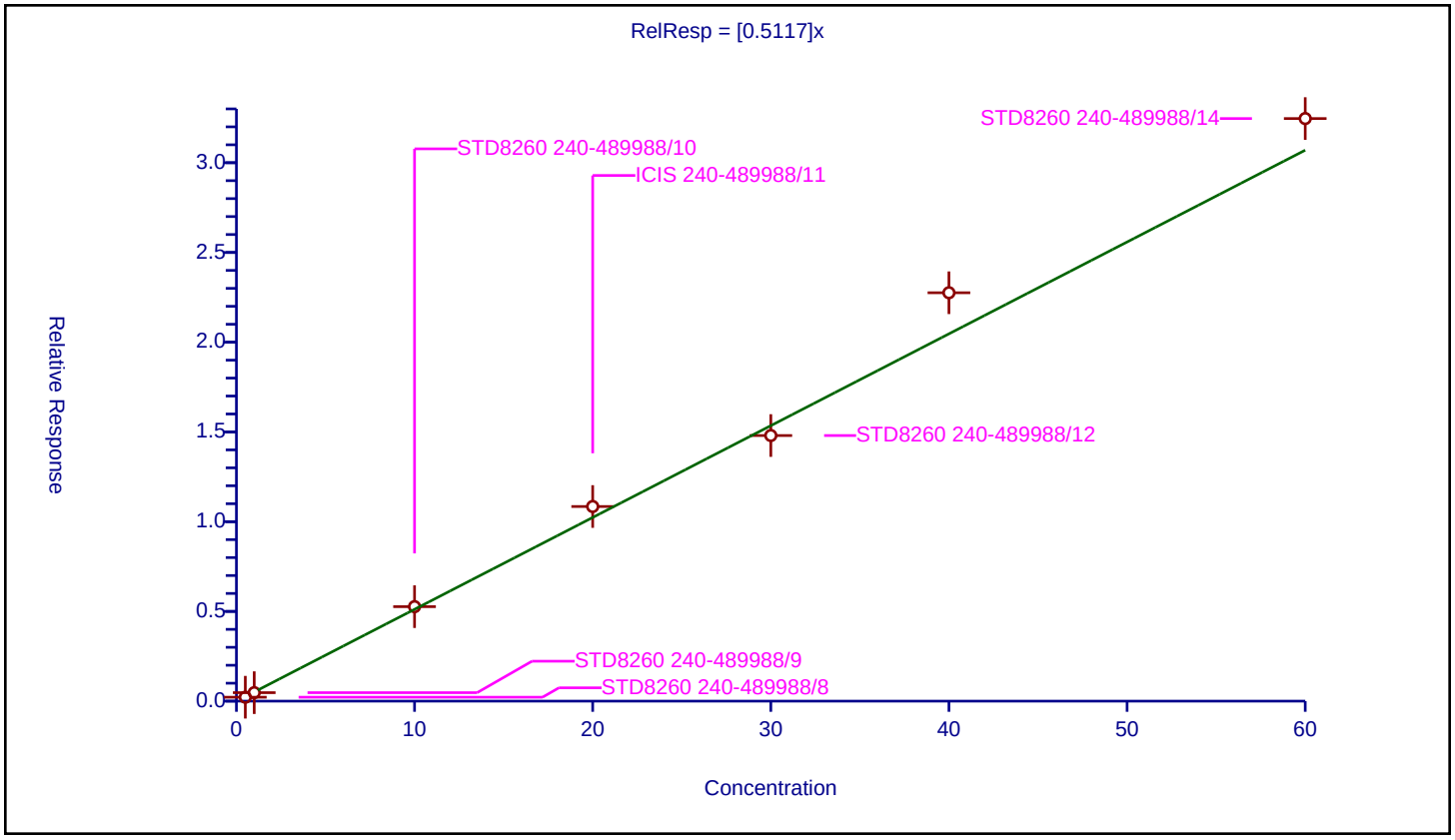
Curve Coefficients

Intercept:	0
Slope:	0.5117

Error Coefficients

Standard Error:	884000
Relative Standard Error:	9.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.218402	20.0	969129.0	0.436805	Y
2	STD8260 240-489988/9	1.0	0.472904	20.0	966538.0	0.472904	Y
3	STD8260 240-489988/10	10.0	5.265053	20.0	994273.0	0.526505	Y
4	ICIS 240-489988/11	20.0	10.844049	20.0	941178.0	0.542202	Y
5	STD8260 240-489988/12	30.0	14.800048	20.0	966359.0	0.493335	Y
6	STD8260 240-489988/13	40.0	22.755767	20.0	963151.0	0.568894	Y
7	STD8260 240-489988/14	60.0	32.460571	20.0	1001617.0	0.54101	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

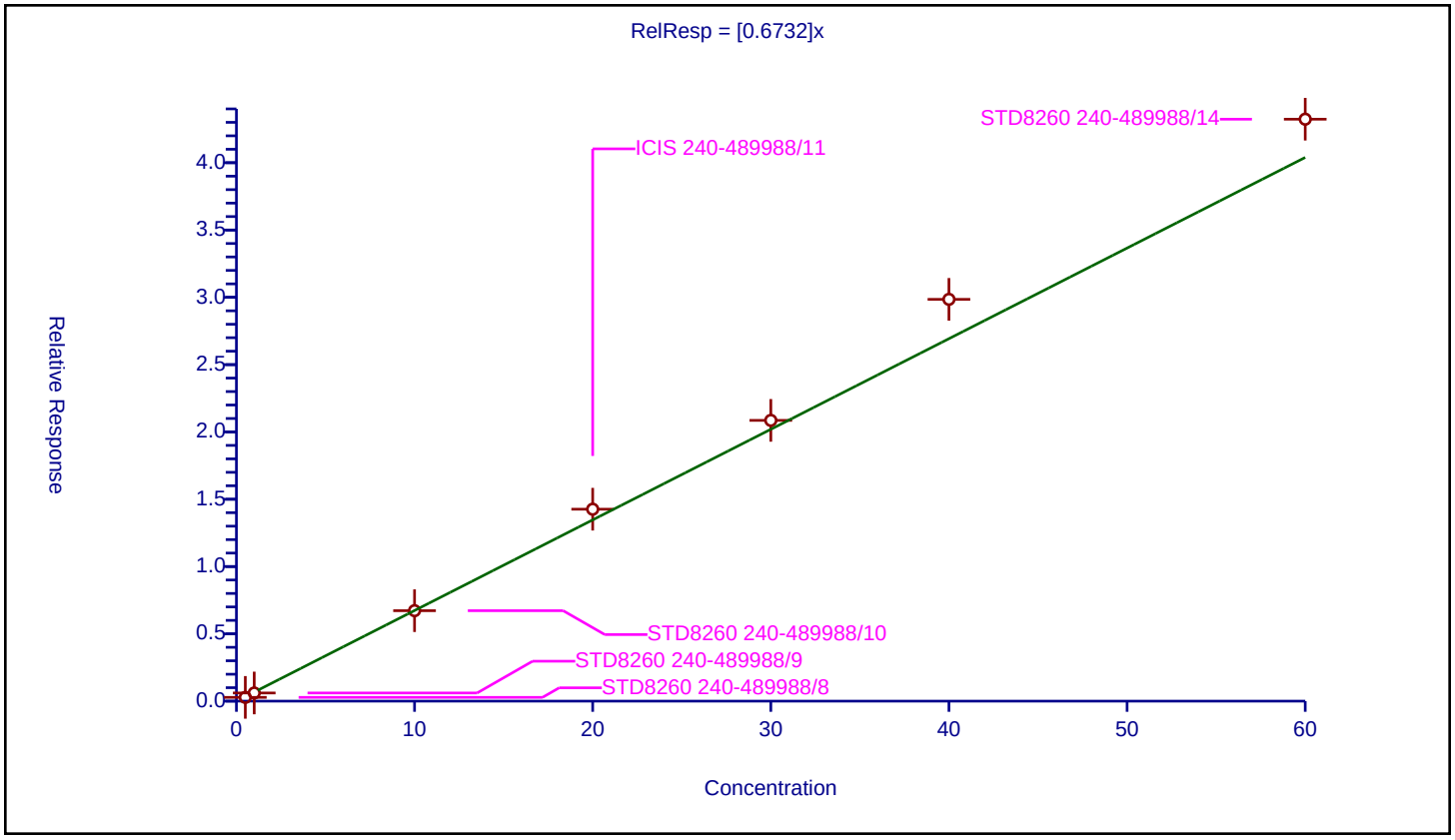
Curve Coefficients

Intercept:	0
Slope:	0.6732

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.279839	20.0	969129.0	0.559678	Y
2	STD8260 240-489988/9	1.0	0.605543	20.0	966538.0	0.605543	Y
3	STD8260 240-489988/10	10.0	6.72075	20.0	994273.0	0.672075	Y
4	ICIS 240-489988/11	20.0	14.259747	20.0	941178.0	0.712987	Y
5	STD8260 240-489988/12	30.0	20.859101	20.0	966359.0	0.695303	Y
6	STD8260 240-489988/13	40.0	29.849318	20.0	963151.0	0.746233	Y
7	STD8260 240-489988/14	60.0	43.233392	20.0	1001617.0	0.720557	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

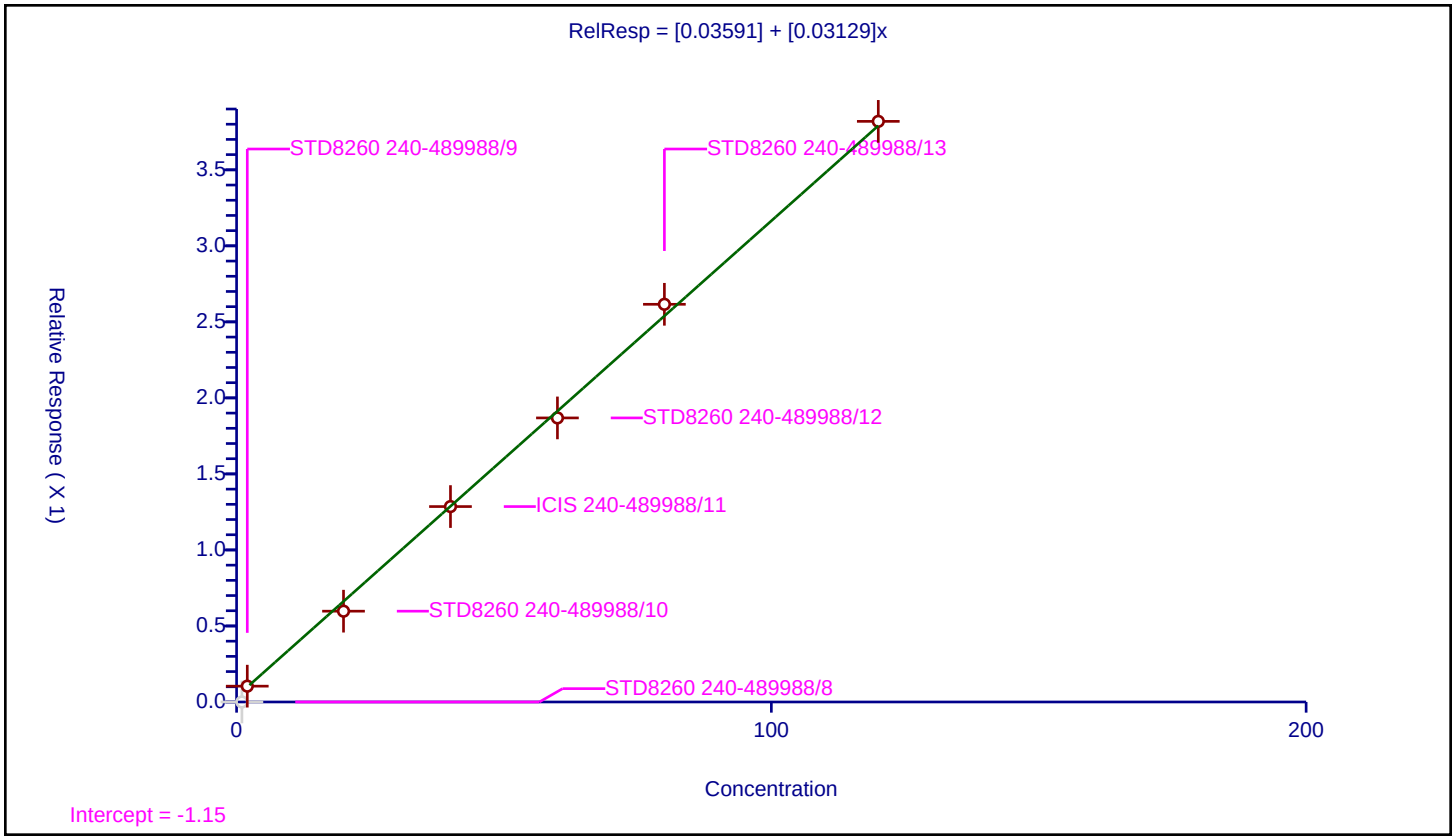
Curve Coefficients

Intercept:	0.03591
Slope:	0.03129

Error Coefficients

Standard Error:	128000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	1.0	0.0	20.0	969129.0	0.0	N
2	STD8260 240-489988/9	2.0	0.104104	20.0	966538.0	0.052052	Y
3	STD8260 240-489988/10	20.0	0.597301	20.0	994273.0	0.029865	Y
4	ICIS 240-489988/11	40.0	1.285368	20.0	941178.0	0.032134	Y
5	STD8260 240-489988/12	60.0	1.868353	20.0	966359.0	0.031139	Y
6	STD8260 240-489988/13	80.0	2.615644	20.0	963151.0	0.032696	Y
7	STD8260 240-489988/14	120.0	3.818805	20.0	1001617.0	0.031823	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

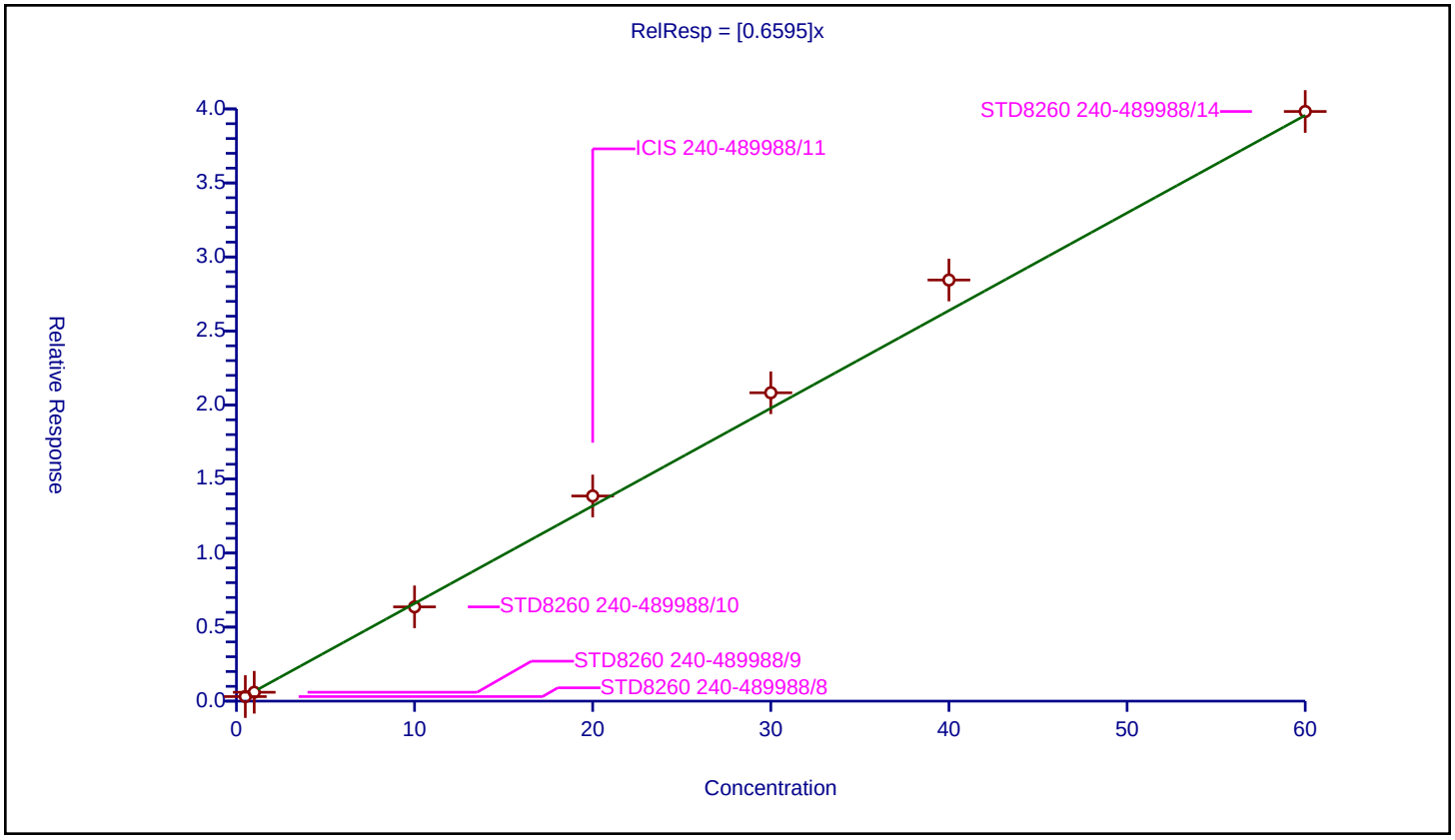
Curve Coefficients

Intercept:	0
Slope:	0.6595

Error Coefficients

Standard Error:	1110000
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 240-489988/8	0.5	0.309288	20.0	969129.0	0.618576	Y
2	STD8260 240-489988/9	1.0	0.599211	20.0	966538.0	0.599211	Y
3	STD8260 240-489988/10	10.0	6.366561	20.0	994273.0	0.636656	Y
4	ICIS 240-489988/11	20.0	13.855636	20.0	941178.0	0.692782	Y
5	STD8260 240-489988/12	30.0	20.828367	20.0	966359.0	0.694279	Y
6	STD8260 240-489988/13	40.0	28.442975	20.0	963151.0	0.711074	Y
7	STD8260 240-489988/14	60.0	39.824783	20.0	1001617.0	0.663746	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

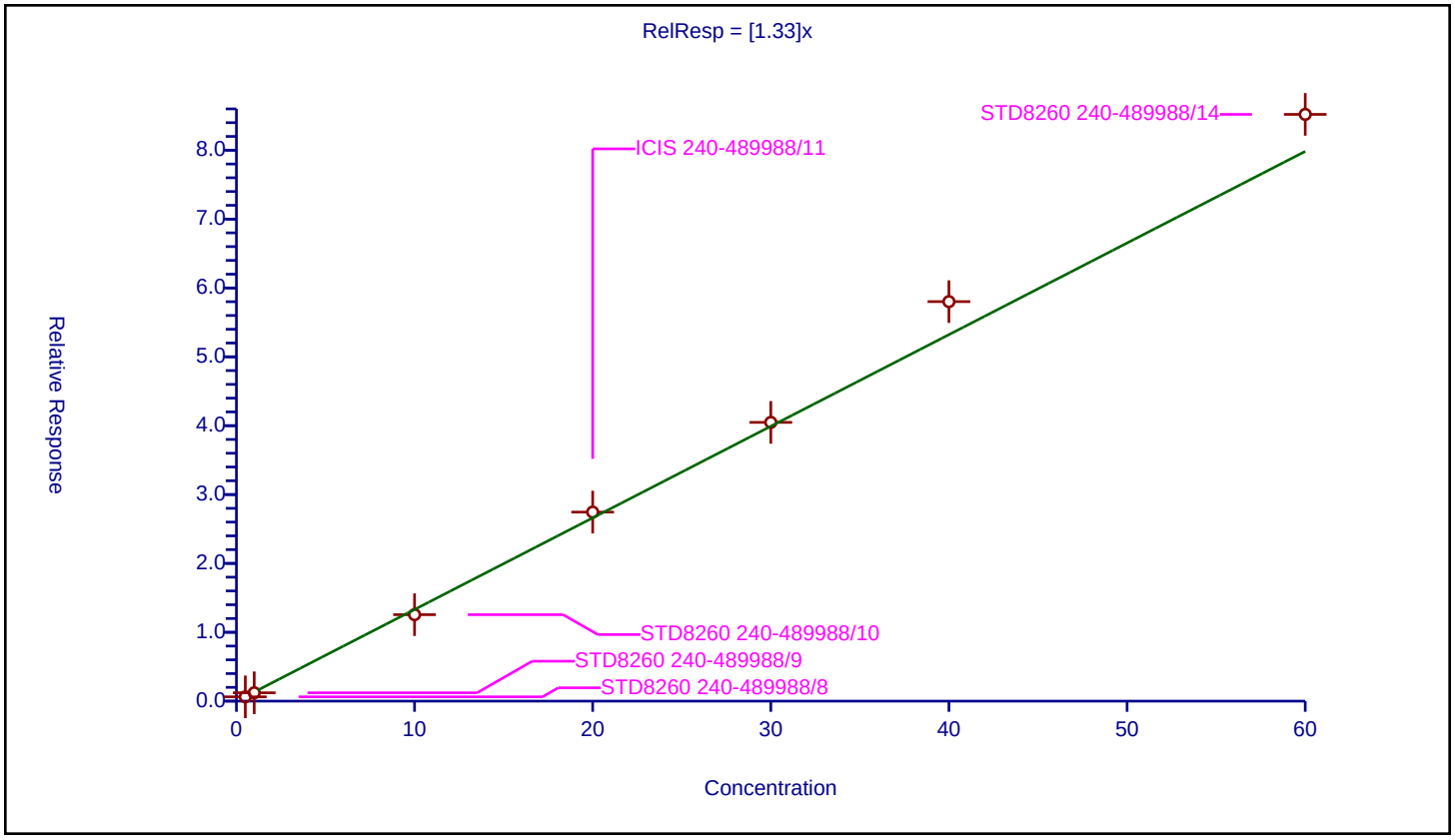
Curve Coefficients

Intercept:	0
Slope:	1.33

Error Coefficients

Standard Error:	2310000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.625634	20.0	969129.0	1.251268	Y
2	STD8260 240-489988/9	1.0	1.214396	20.0	966538.0	1.214396	Y
3	STD8260 240-489988/10	10.0	12.556089	20.0	994273.0	1.255609	Y
4	ICIS 240-489988/11	20.0	27.448155	20.0	941178.0	1.372408	Y
5	STD8260 240-489988/12	30.0	40.480525	20.0	966359.0	1.349351	Y
6	STD8260 240-489988/13	40.0	58.013229	20.0	963151.0	1.450331	Y
7	STD8260 240-489988/14	60.0	85.202408	20.0	1001617.0	1.42004	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

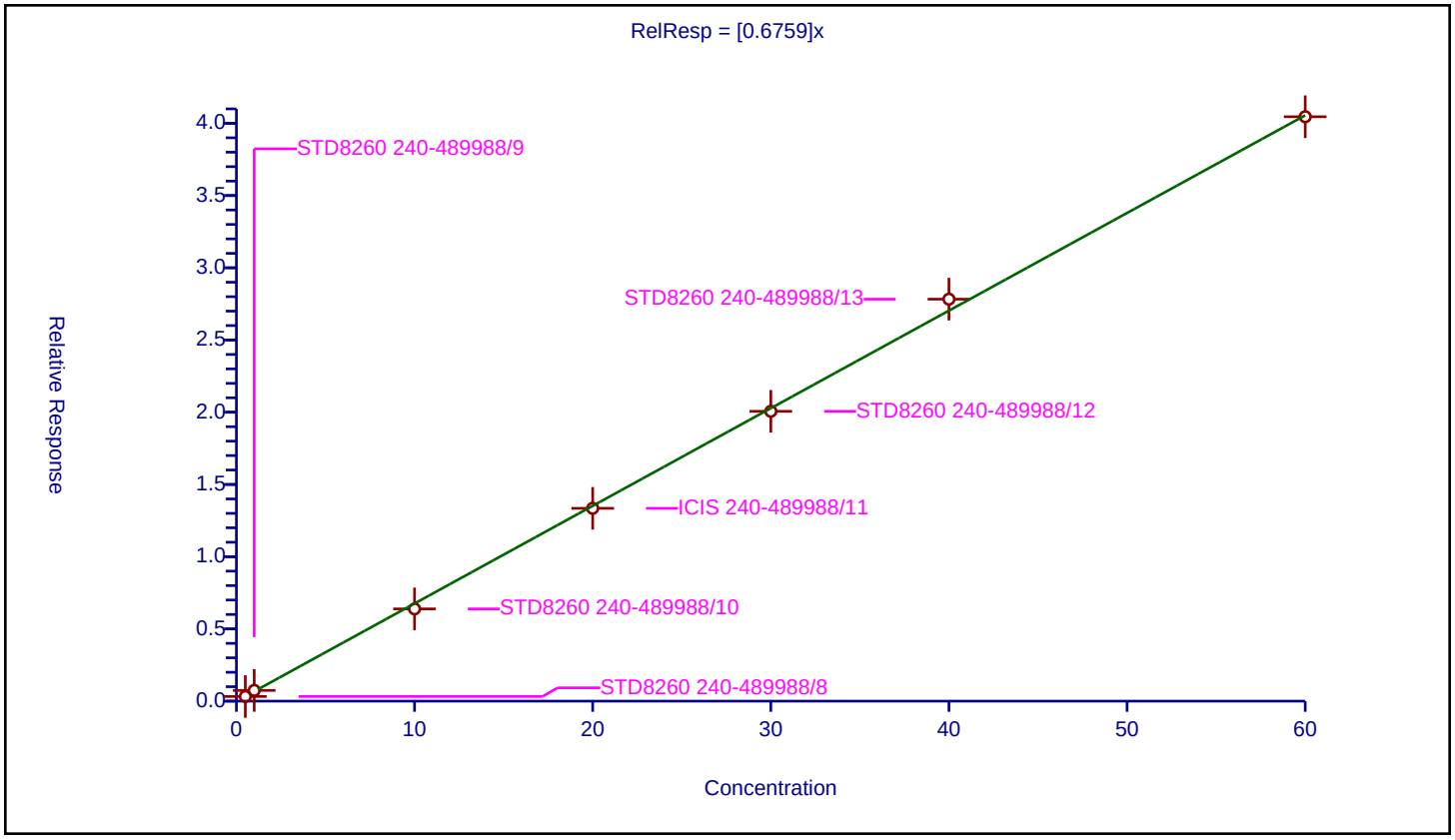
Curve Coefficients

Intercept:	0
Slope:	0.6759

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.321526	20.0	969129.0	0.643052	Y
2	STD8260 240-489988/9	1.0	0.743333	20.0	966538.0	0.743333	Y
3	STD8260 240-489988/10	10.0	6.385912	20.0	994273.0	0.638591	Y
4	ICIS 240-489988/11	20.0	13.348527	20.0	941178.0	0.667426	Y
5	STD8260 240-489988/12	30.0	20.06422	20.0	966359.0	0.668807	Y
6	STD8260 240-489988/13	40.0	27.827288	20.0	963151.0	0.695682	Y
7	STD8260 240-489988/14	60.0	40.455404	20.0	1001617.0	0.674257	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

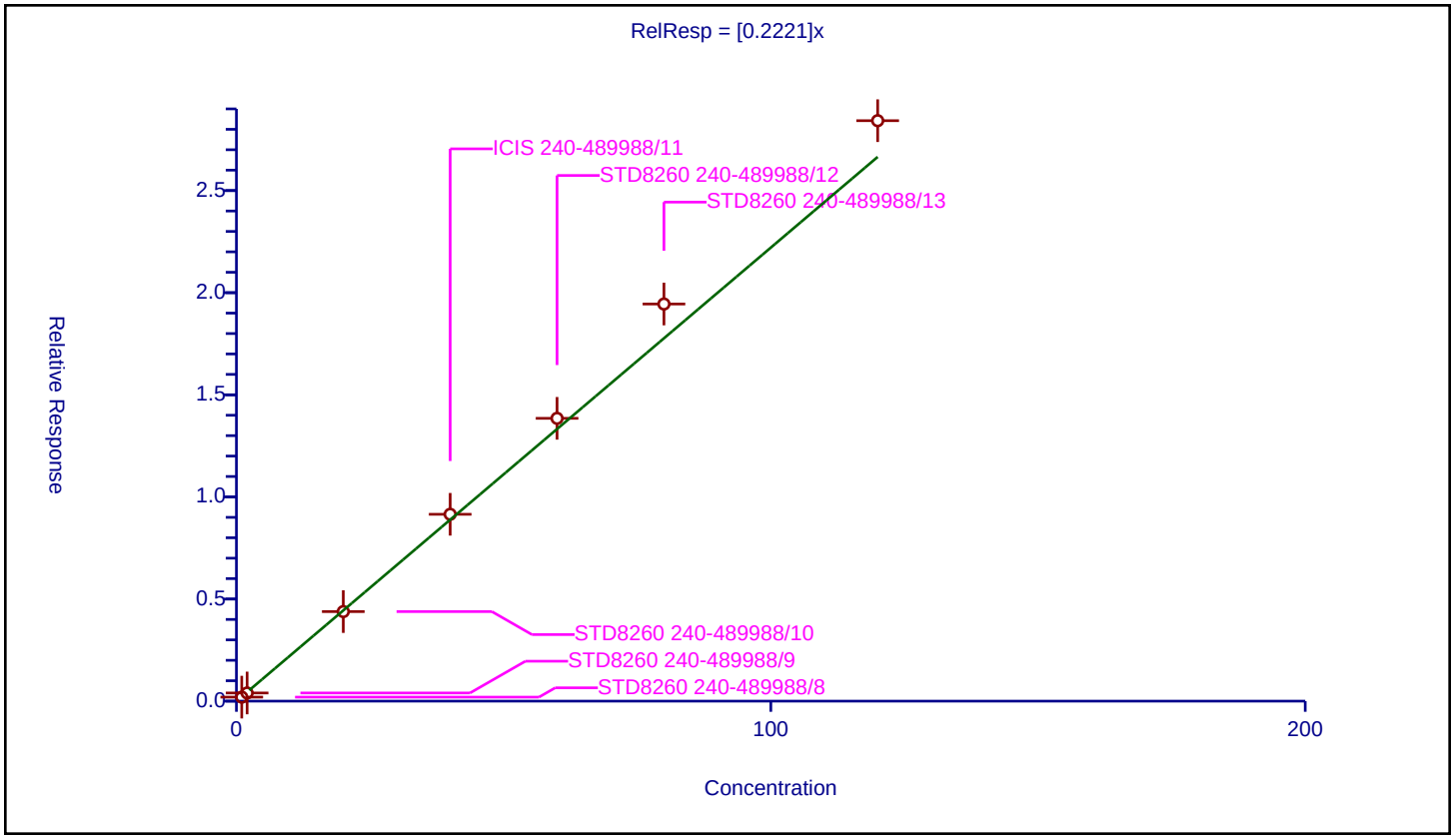
Curve Coefficients

Intercept:	0
Slope:	0.2221

Error Coefficients

Standard Error:	773000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	1.0	0.195784	20.0	969129.0	0.195784	Y
2	STD8260 240-489988/9	2.0	0.400088	20.0	966538.0	0.200044	Y
3	STD8260 240-489988/10	20.0	4.385114	20.0	994273.0	0.219256	Y
4	ICIS 240-489988/11	40.0	9.149385	20.0	941178.0	0.228735	Y
5	STD8260 240-489988/12	60.0	13.84827	20.0	966359.0	0.230804	Y
6	STD8260 240-489988/13	80.0	19.445508	20.0	963151.0	0.243069	Y
7	STD8260 240-489988/14	120.0	28.42276	20.0	1001617.0	0.236856	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

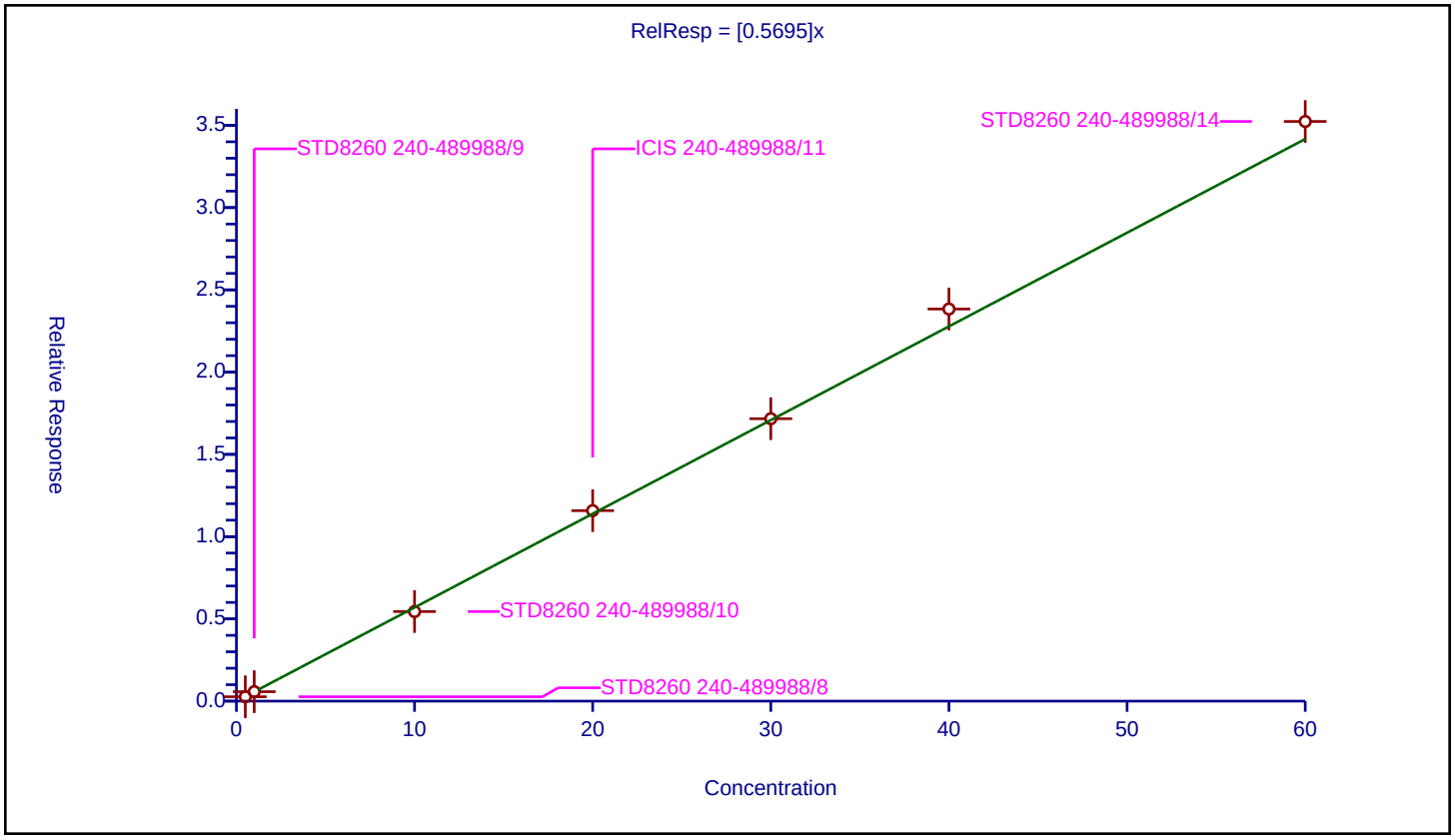
Curve Coefficients

Intercept:	0
Slope:	0.5695

Error Coefficients

Standard Error:	957000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.265785	20.0	969129.0	0.53157	Y
2	STD8260 240-489988/9	1.0	0.575766	20.0	966538.0	0.575766	Y
3	STD8260 240-489988/10	10.0	5.444923	20.0	994273.0	0.544492	Y
4	ICIS 240-489988/11	20.0	11.579552	20.0	941178.0	0.578978	Y
5	STD8260 240-489988/12	30.0	17.167823	20.0	966359.0	0.572261	Y
6	STD8260 240-489988/13	40.0	23.834518	20.0	963151.0	0.595863	Y
7	STD8260 240-489988/14	60.0	35.236203	20.0	1001617.0	0.58727	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

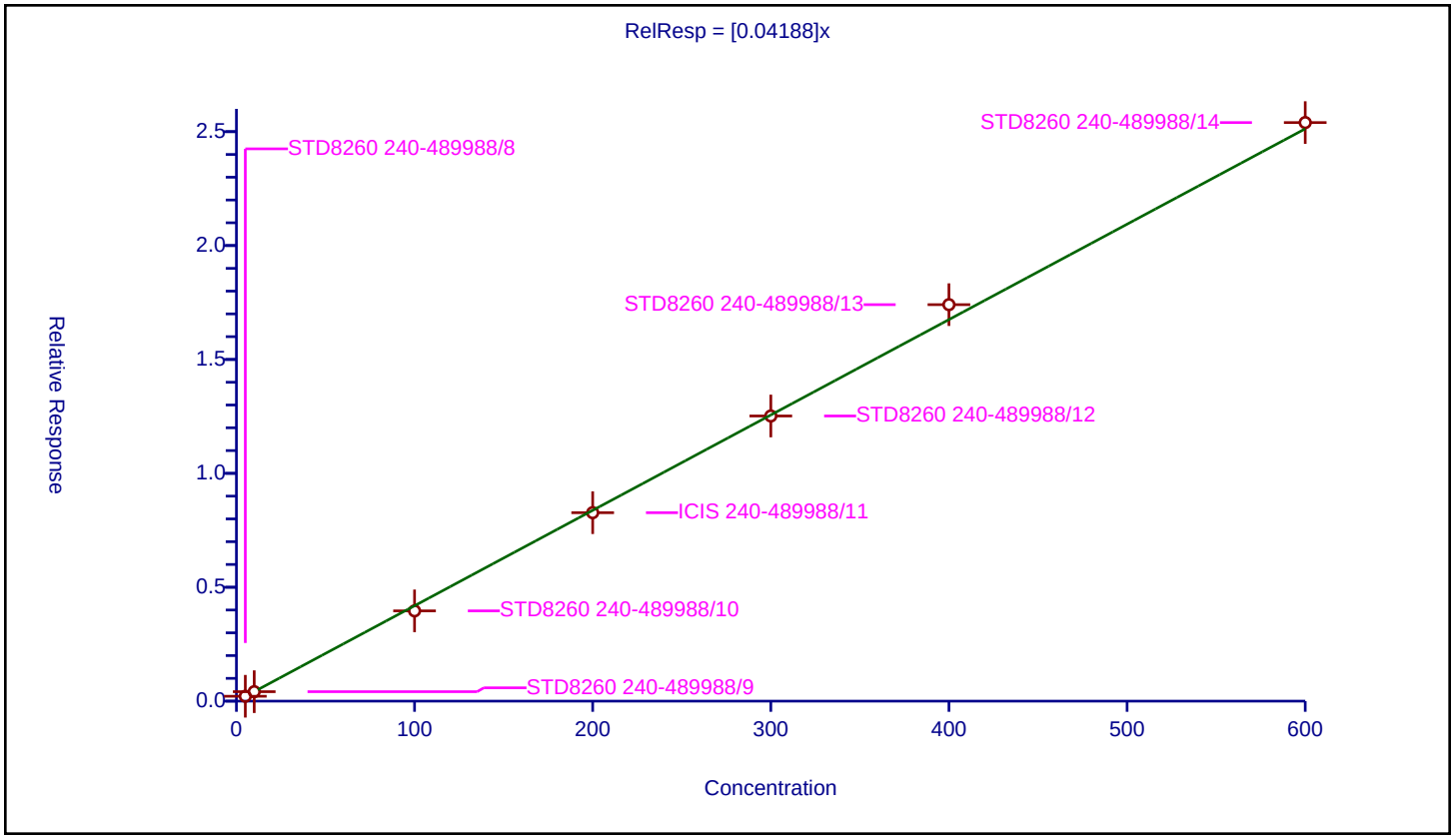
Curve Coefficients

Intercept:	0
Slope:	0.04188

Error Coefficients

Standard Error:	692000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	5.0	0.214811	20.0	969129.0	0.042962	Y
2	STD8260 240-489988/9	10.0	0.415959	20.0	966538.0	0.041596	Y
3	STD8260 240-489988/10	100.0	3.96362	20.0	994273.0	0.039636	Y
4	ICIS 240-489988/11	200.0	8.273037	20.0	941178.0	0.041365	Y
5	STD8260 240-489988/12	300.0	12.518081	20.0	966359.0	0.041727	Y
6	STD8260 240-489988/13	400.0	17.405599	20.0	963151.0	0.043514	Y
7	STD8260 240-489988/14	600.0	25.399509	20.0	1001617.0	0.042333	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

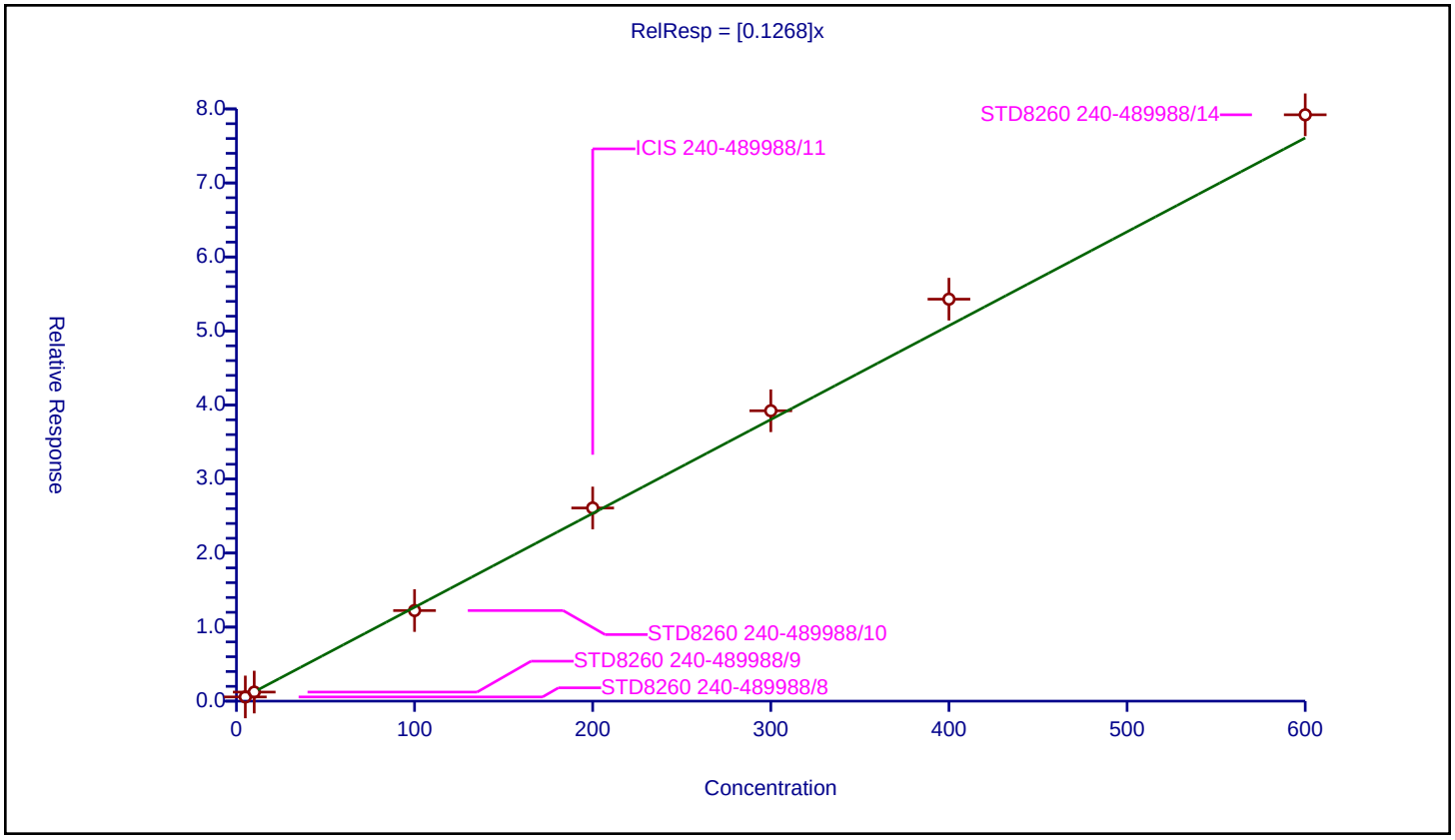
Curve Coefficients

Intercept:	0
Slope:	0.1268

Error Coefficients

Standard Error:	2160000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	5.0	0.568015	20.0	969129.0	0.113603	Y
2	STD8260 240-489988/9	10.0	1.226543	20.0	966538.0	0.122654	Y
3	STD8260 240-489988/10	100.0	12.238088	20.0	994273.0	0.122381	Y
4	ICIS 240-489988/11	200.0	26.090559	20.0	941178.0	0.130453	Y
5	STD8260 240-489988/12	300.0	39.224636	20.0	966359.0	0.130749	Y
6	STD8260 240-489988/13	400.0	54.298194	20.0	963151.0	0.135745	Y
7	STD8260 240-489988/14	600.0	79.206064	20.0	1001617.0	0.13201	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

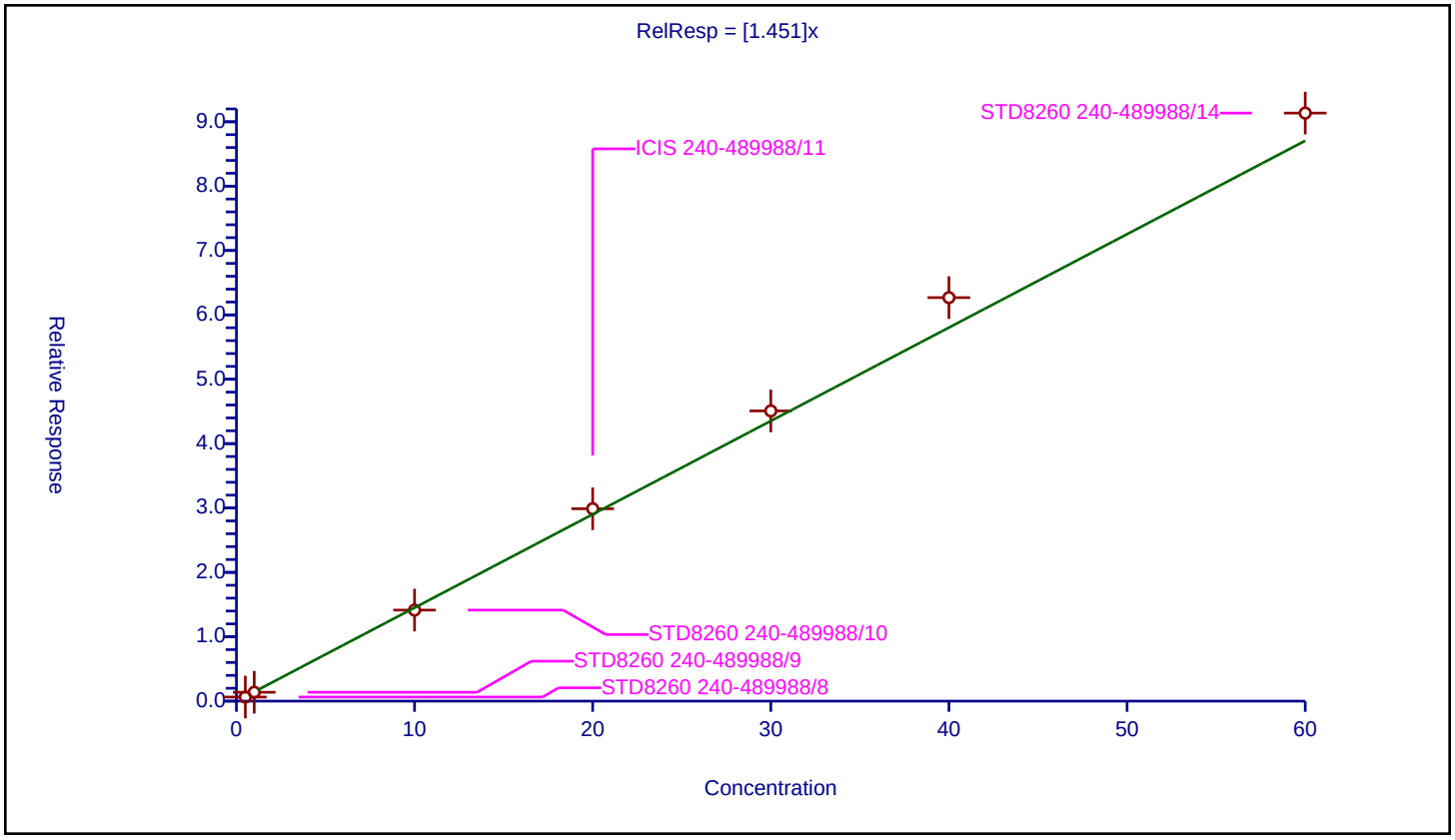
Curve Coefficients

Intercept:	0
Slope:	1.451

Error Coefficients

Standard Error:	2490000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.636365	20.0	969129.0	1.27273	Y
2	STD8260 240-489988/9	1.0	1.381818	20.0	966538.0	1.381818	Y
3	STD8260 240-489988/10	10.0	14.143258	20.0	994273.0	1.414326	Y
4	ICIS 240-489988/11	20.0	29.887333	20.0	941178.0	1.494367	Y
5	STD8260 240-489988/12	30.0	45.088337	20.0	966359.0	1.502945	Y
6	STD8260 240-489988/13	40.0	62.684294	20.0	963151.0	1.567107	Y
7	STD8260 240-489988/14	60.0	91.350806	20.0	1001617.0	1.522513	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

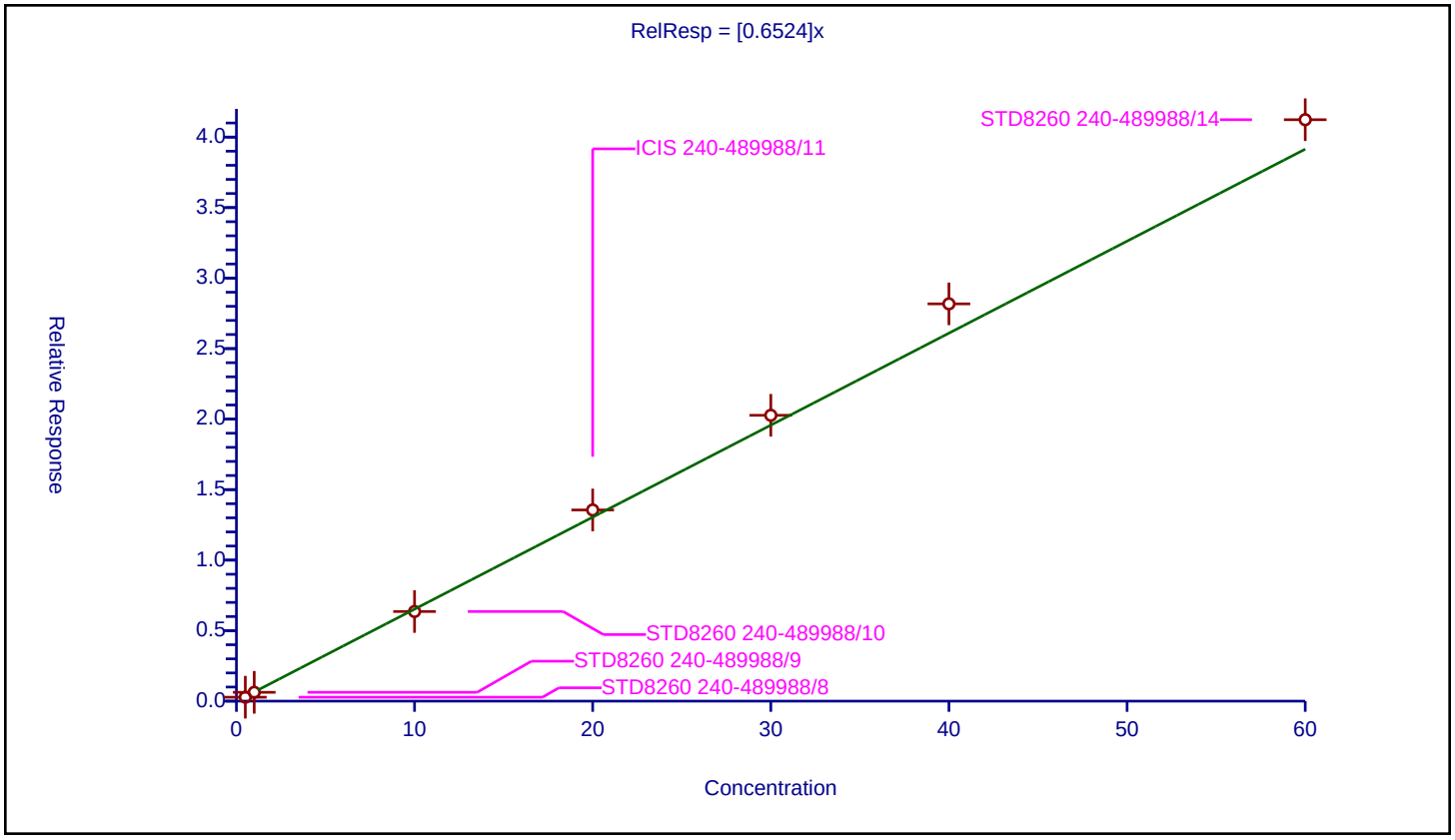
Curve Coefficients

Intercept:	0
Slope:	0.6524

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.279529	20.0	969129.0	0.559059	Y
2	STD8260 240-489988/9	1.0	0.627001	20.0	966538.0	0.627001	Y
3	STD8260 240-489988/10	10.0	6.356021	20.0	994273.0	0.635602	Y
4	ICIS 240-489988/11	20.0	13.557117	20.0	941178.0	0.677856	Y
5	STD8260 240-489988/12	30.0	20.272093	20.0	966359.0	0.675736	Y
6	STD8260 240-489988/13	40.0	28.17444	20.0	963151.0	0.704361	Y
7	STD8260 240-489988/14	60.0	41.233685	20.0	1001617.0	0.687228	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

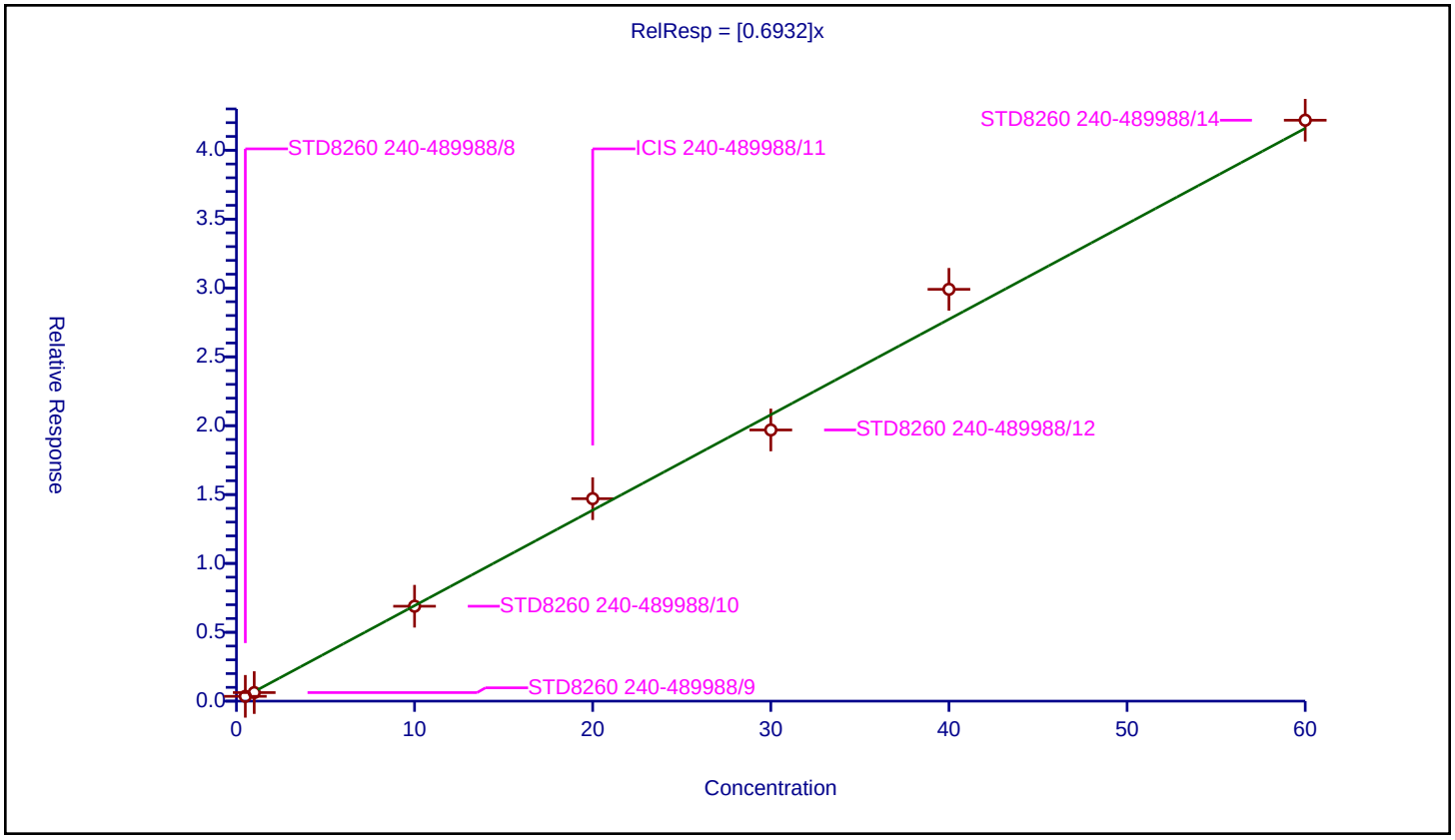
Curve Coefficients

Intercept:	0
Slope:	0.6932

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	6.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.349922	20.0	969129.0	0.699845	Y
2	STD8260 240-489988/9	1.0	0.621352	20.0	966538.0	0.621352	Y
3	STD8260 240-489988/10	10.0	6.891447	20.0	994273.0	0.689145	Y
4	ICIS 240-489988/11	20.0	14.700089	20.0	941178.0	0.735004	Y
5	STD8260 240-489988/12	30.0	19.688666	20.0	966359.0	0.656289	Y
6	STD8260 240-489988/13	40.0	29.90067	20.0	963151.0	0.747517	Y
7	STD8260 240-489988/14	60.0	42.177619	20.0	1001617.0	0.70296	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

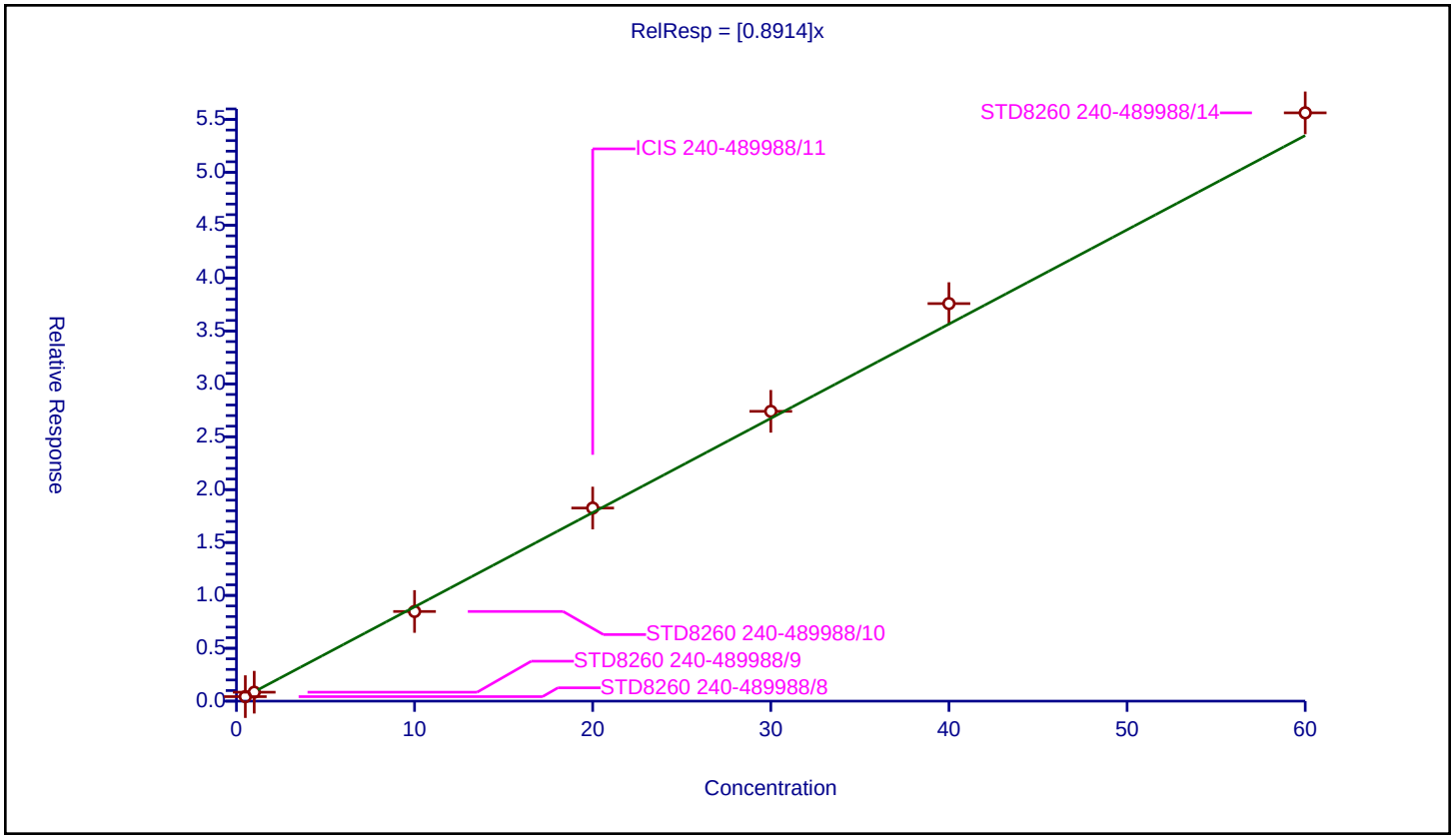
Curve Coefficients

Intercept:	0
Slope:	0.8914

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.426734	20.0	969129.0	0.853467	Y
2	STD8260 240-489988/9	1.0	0.845099	20.0	966538.0	0.845099	Y
3	STD8260 240-489988/10	10.0	8.478175	20.0	994273.0	0.847817	Y
4	ICIS 240-489988/11	20.0	18.259968	20.0	941178.0	0.912998	Y
5	STD8260 240-489988/12	30.0	27.402818	20.0	966359.0	0.913427	Y
6	STD8260 240-489988/13	40.0	37.589994	20.0	963151.0	0.93975	Y
7	STD8260 240-489988/14	60.0	55.627291	20.0	1001617.0	0.927122	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

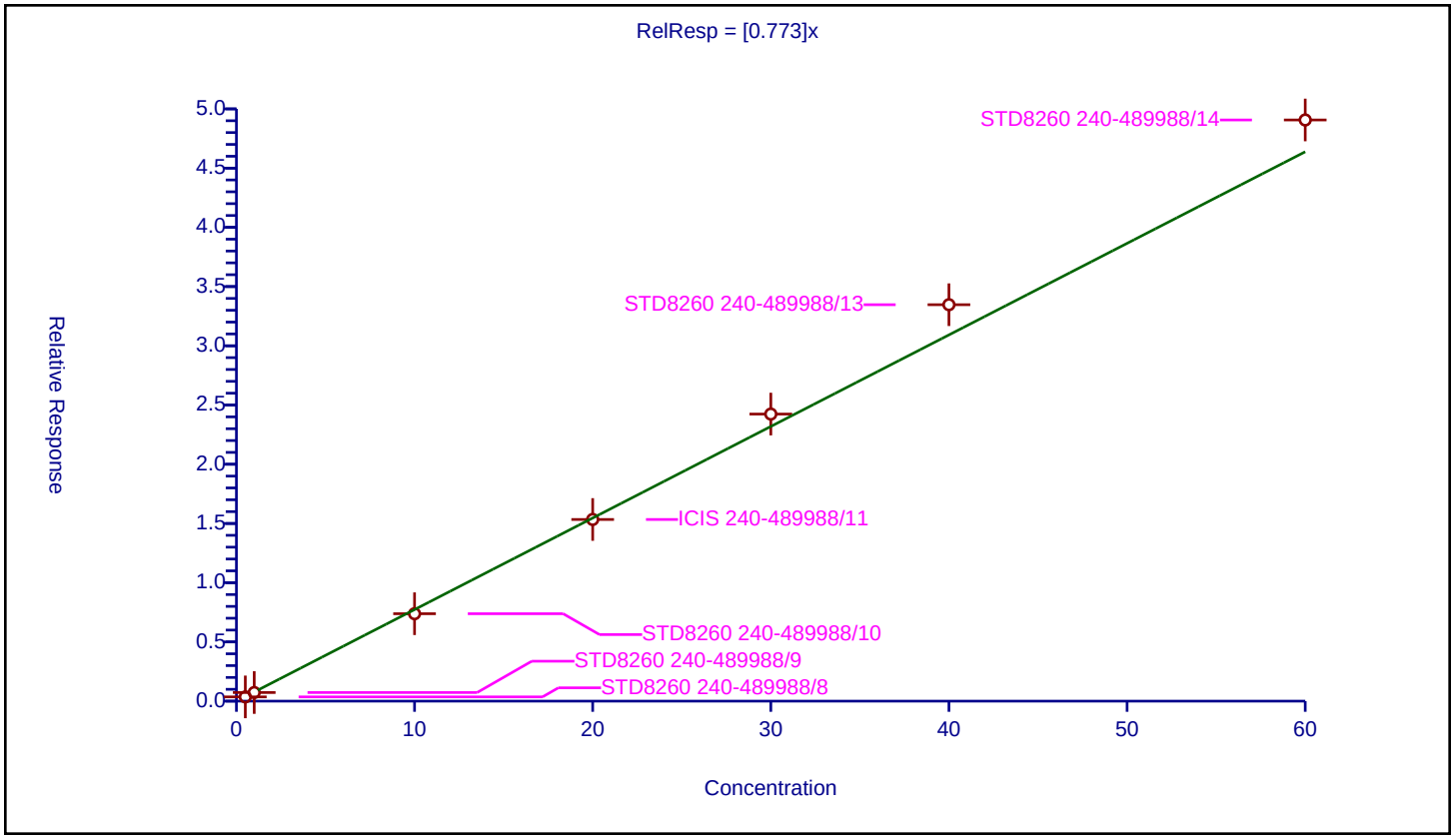
Curve Coefficients

Intercept:	0
Slope:	0.773

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.357847	20.0	969129.0	0.715694	Y
2	STD8260 240-489988/9	1.0	0.728042	20.0	966538.0	0.728042	Y
3	STD8260 240-489988/10	10.0	7.379844	20.0	994273.0	0.737984	Y
4	ICIS 240-489988/11	20.0	15.3361	20.0	941178.0	0.766805	Y
5	STD8260 240-489988/12	30.0	24.236272	20.0	966359.0	0.807876	Y
6	STD8260 240-489988/13	40.0	33.469684	20.0	963151.0	0.836742	Y
7	STD8260 240-489988/14	60.0	49.064183	20.0	1001617.0	0.817736	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

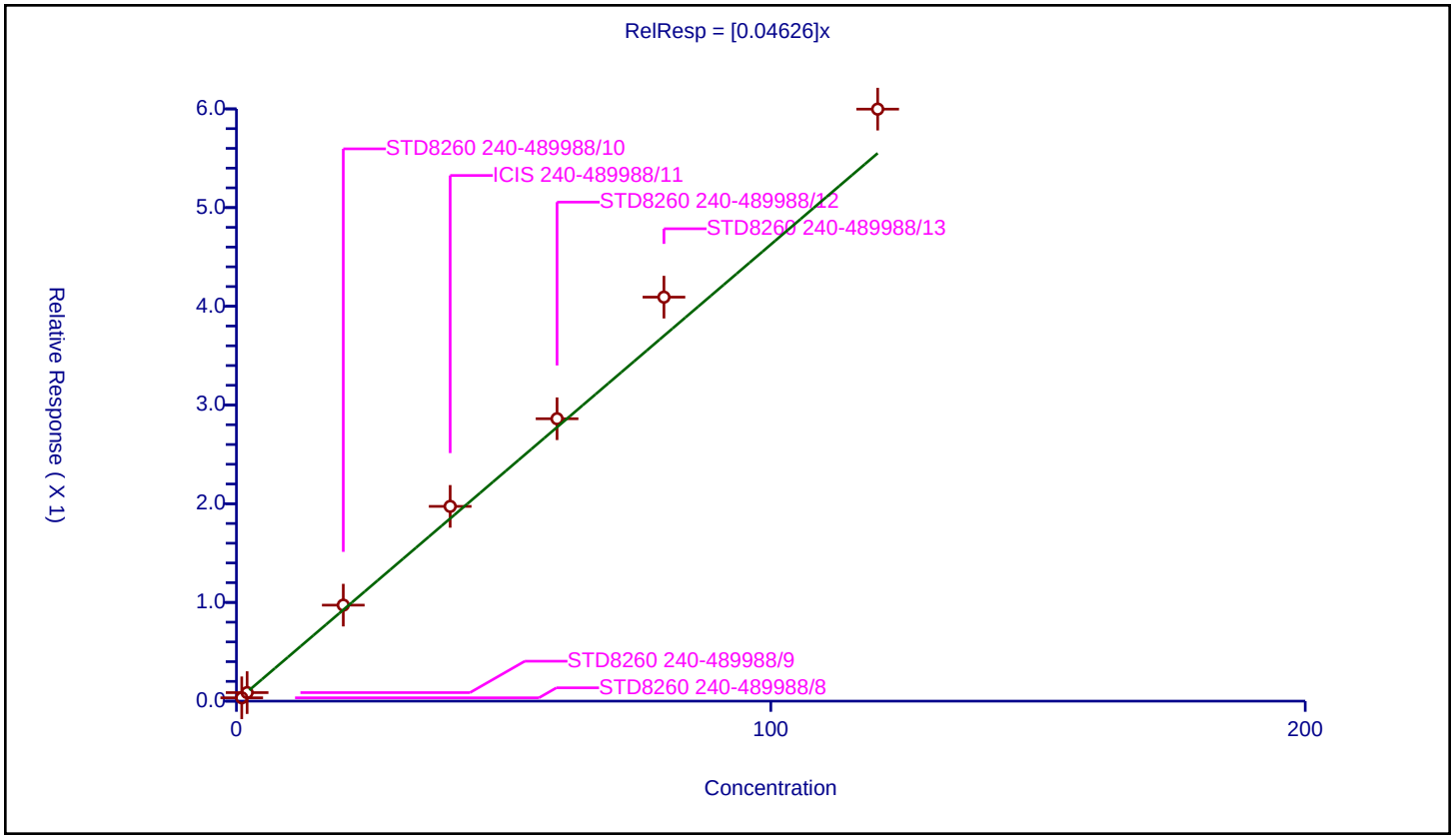
Curve Coefficients

Intercept:	0
Slope:	0.04626

Error Coefficients

Standard Error:	163000
Relative Standard Error:	13.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	1.0	0.033783	20.0	969129.0	0.033783	Y
2	STD8260 240-489988/9	2.0	0.086494	20.0	966538.0	0.043247	Y
3	STD8260 240-489988/10	20.0	0.97259	20.0	994273.0	0.04863	Y
4	ICIS 240-489988/11	40.0	1.973187	20.0	941178.0	0.04933	Y
5	STD8260 240-489988/12	60.0	2.861111	20.0	966359.0	0.047685	Y
6	STD8260 240-489988/13	80.0	4.092837	20.0	963151.0	0.05116	Y
7	STD8260 240-489988/14	120.0	5.997702	20.0	1001617.0	0.049981	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

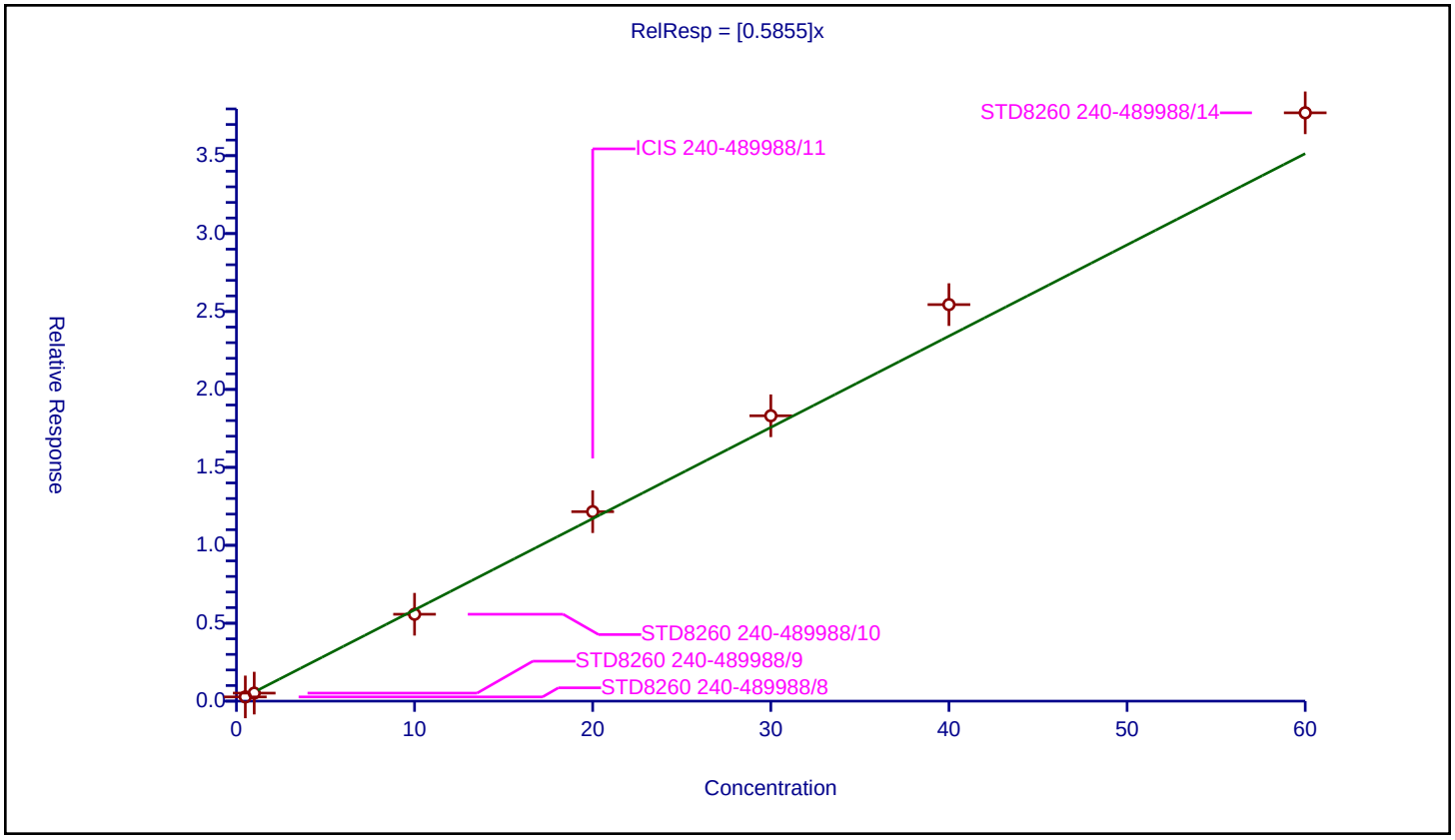
Curve Coefficients

Intercept:	0
Slope:	0.5855

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.271213	20.0	969129.0	0.542425	Y
2	STD8260 240-489988/9	1.0	0.515262	20.0	966538.0	0.515262	Y
3	STD8260 240-489988/10	10.0	5.57537	20.0	994273.0	0.557537	Y
4	ICIS 240-489988/11	20.0	12.15702	20.0	941178.0	0.607851	Y
5	STD8260 240-489988/12	30.0	18.31069	20.0	966359.0	0.610356	Y
6	STD8260 240-489988/13	40.0	25.442158	20.0	963151.0	0.636054	Y
7	STD8260 240-489988/14	60.0	37.749279	20.0	1001617.0	0.629155	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

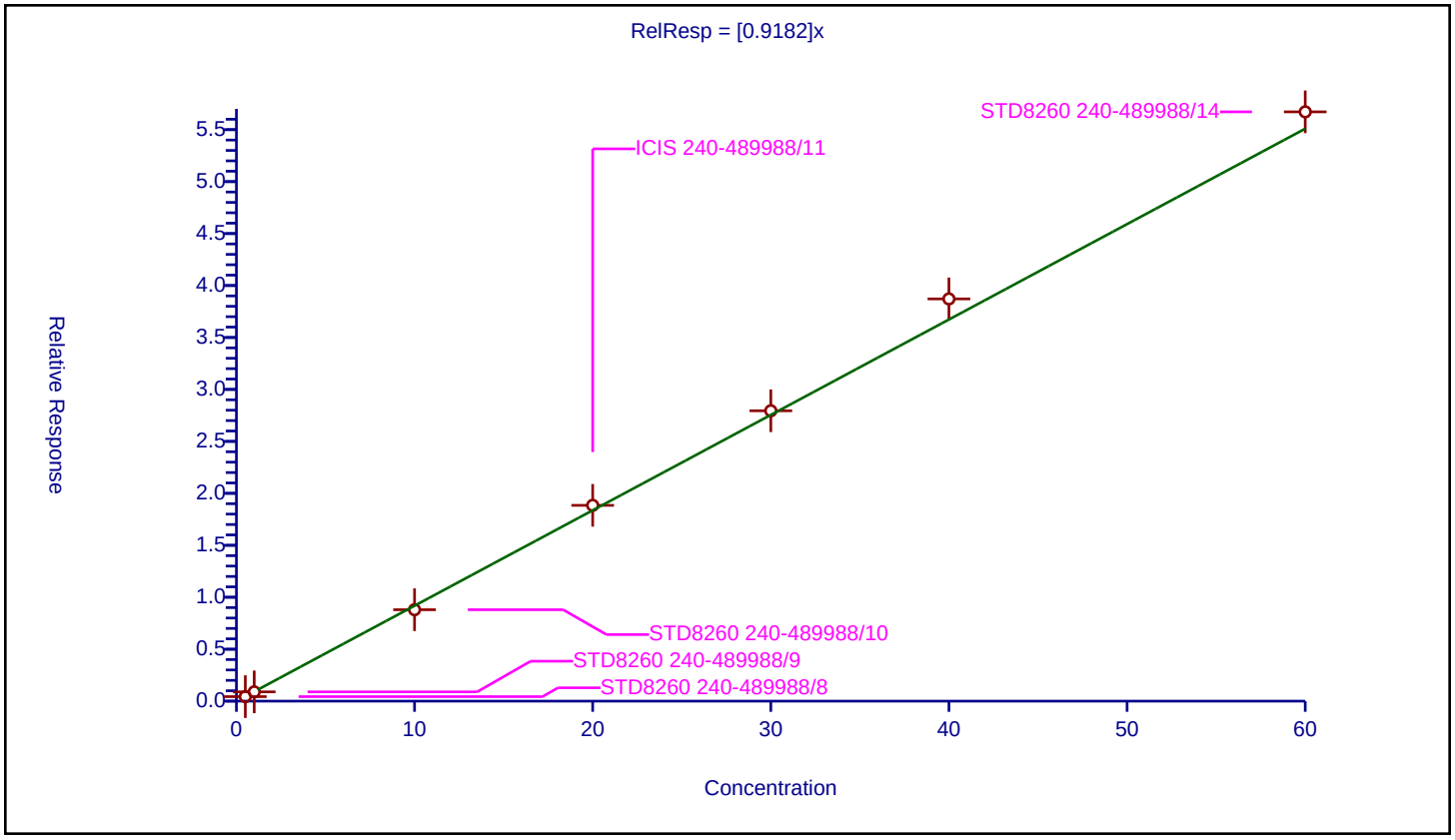
Curve Coefficients

Intercept:	0
Slope:	0.9182

Error Coefficients

Standard Error:	1550000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.433647	20.0	969129.0	0.867294	Y
2	STD8260 240-489988/9	1.0	0.893457	20.0	966538.0	0.893457	Y
3	STD8260 240-489988/10	10.0	8.798891	20.0	994273.0	0.879889	Y
4	ICIS 240-489988/11	20.0	18.845426	20.0	941178.0	0.942271	Y
5	STD8260 240-489988/12	30.0	27.946095	20.0	966359.0	0.931536	Y
6	STD8260 240-489988/13	40.0	38.712165	20.0	963151.0	0.967804	Y
7	STD8260 240-489988/14	60.0	56.715212	20.0	1001617.0	0.945254	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

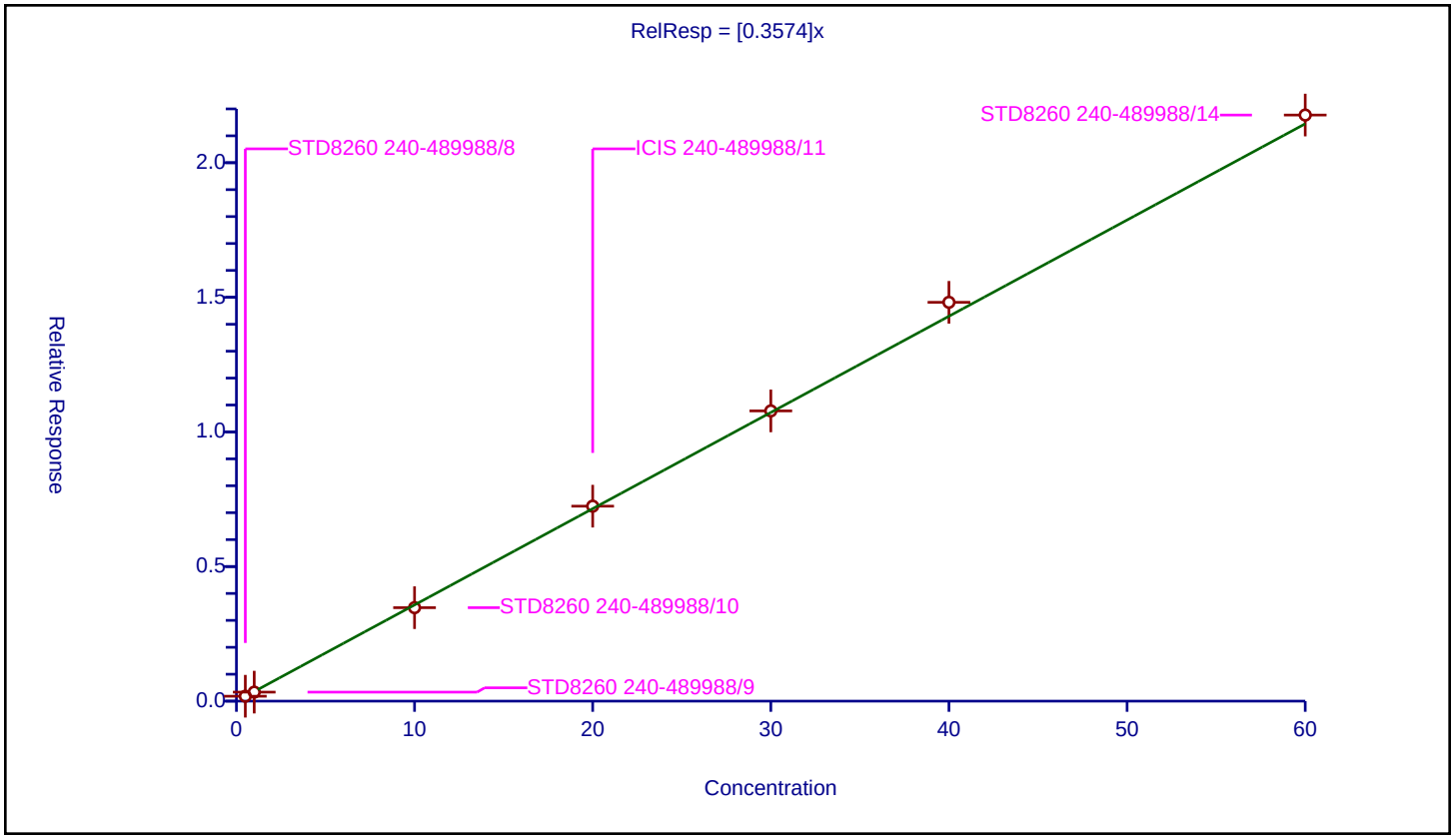
Curve Coefficients

Intercept:	0
Slope:	0.3574

Error Coefficients

Standard Error:	594000
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 240-489988/8	0.5	0.182741	20.0	969129.0	0.365483	Y
2	STD8260 240-489988/9	1.0	0.3347	20.0	966538.0	0.3347	Y
3	STD8260 240-489988/10	10.0	3.471763	20.0	994273.0	0.347176	Y
4	ICIS 240-489988/11	20.0	7.242881	20.0	941178.0	0.362144	Y
5	STD8260 240-489988/12	30.0	10.7815	20.0	966359.0	0.359383	Y
6	STD8260 240-489988/13	40.0	14.814832	20.0	963151.0	0.370371	Y
7	STD8260 240-489988/14	60.0	21.771555	20.0	1001617.0	0.362859	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

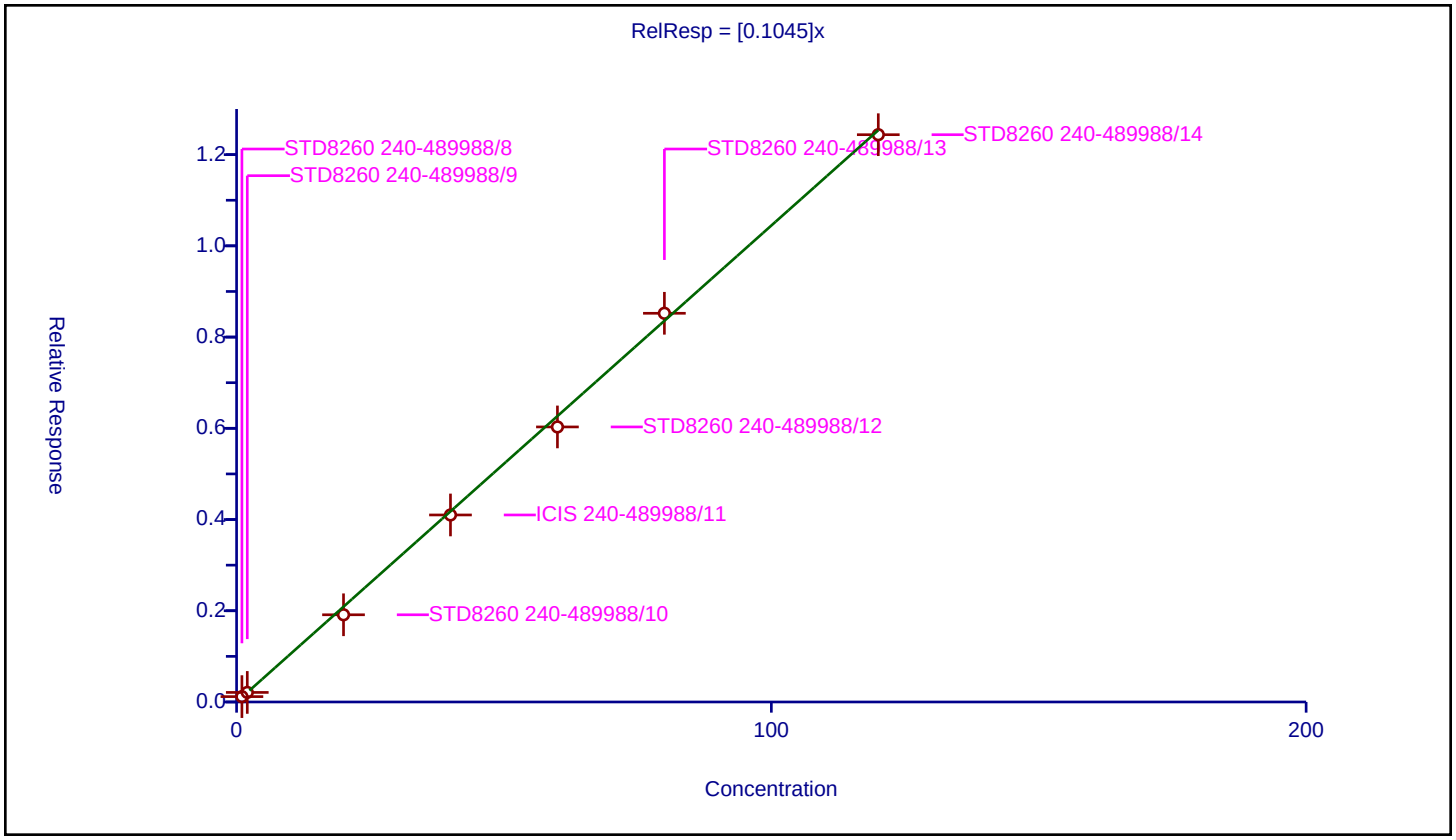
Curve Coefficients

Intercept:	0
Slope:	0.1045

Error Coefficients

Standard Error:	339000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	1.0	0.117735	20.0	969129.0	0.117735	Y
2	STD8260 240-489988/9	2.0	0.209407	20.0	966538.0	0.104704	Y
3	STD8260 240-489988/10	20.0	1.911789	20.0	994273.0	0.095589	Y
4	ICIS 240-489988/11	40.0	4.100372	20.0	941178.0	0.102509	Y
5	STD8260 240-489988/12	60.0	6.029892	20.0	966359.0	0.100498	Y
6	STD8260 240-489988/13	80.0	8.521821	20.0	963151.0	0.106523	Y
7	STD8260 240-489988/14	120.0	12.437149	20.0	1001617.0	0.103643	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

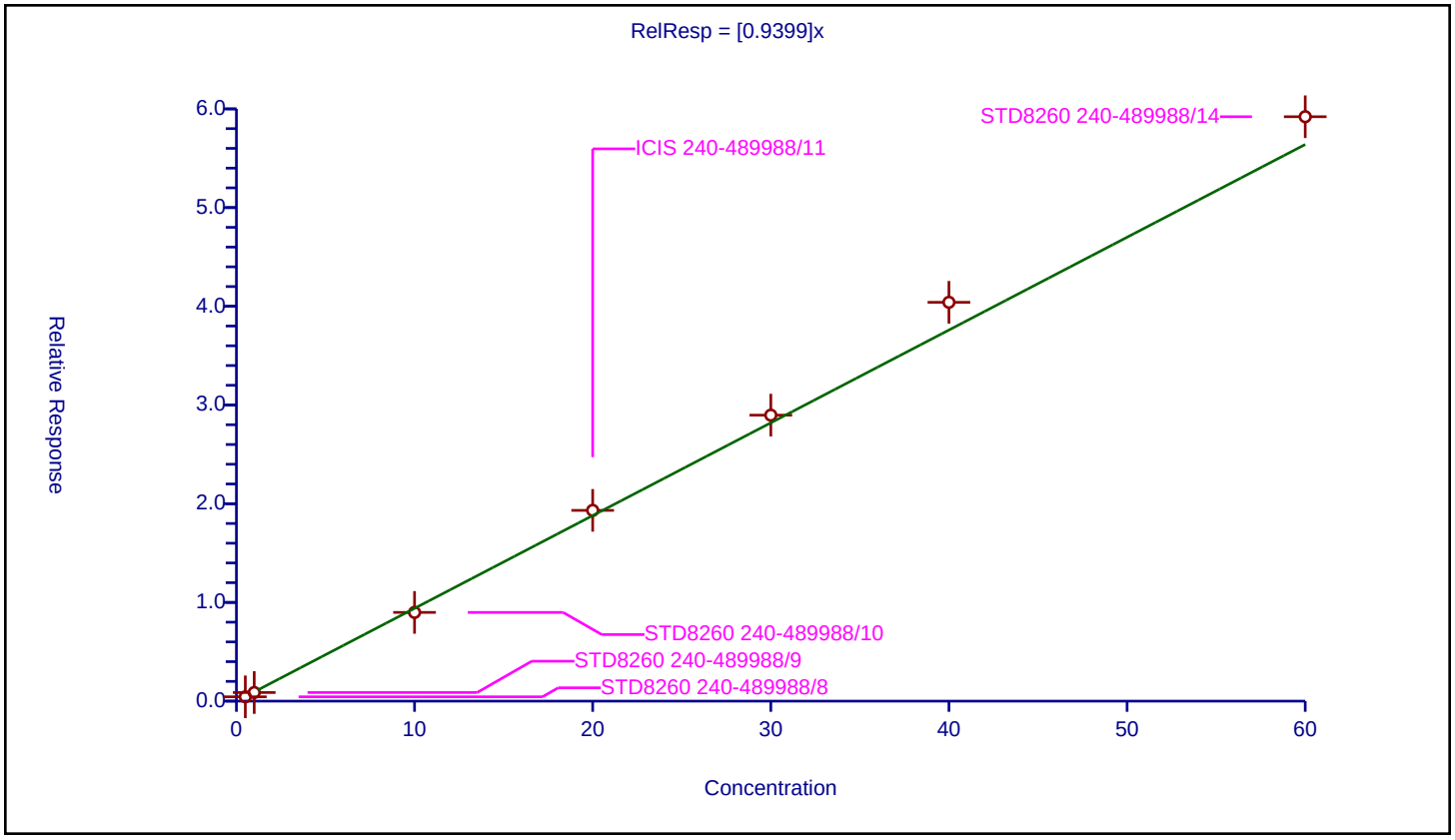
Curve Coefficients

Intercept:	0
Slope:	0.9399

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.438827	20.0	969129.0	0.877654	Y
2	STD8260 240-489988/9	1.0	0.873861	20.0	966538.0	0.873861	Y
3	STD8260 240-489988/10	10.0	8.989302	20.0	994273.0	0.89893	Y
4	ICIS 240-489988/11	20.0	19.326079	20.0	941178.0	0.966304	Y
5	STD8260 240-489988/12	30.0	28.972318	20.0	966359.0	0.965744	Y
6	STD8260 240-489988/13	40.0	40.404173	20.0	963151.0	1.010104	Y
7	STD8260 240-489988/14	60.0	59.207062	20.0	1001617.0	0.986784	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

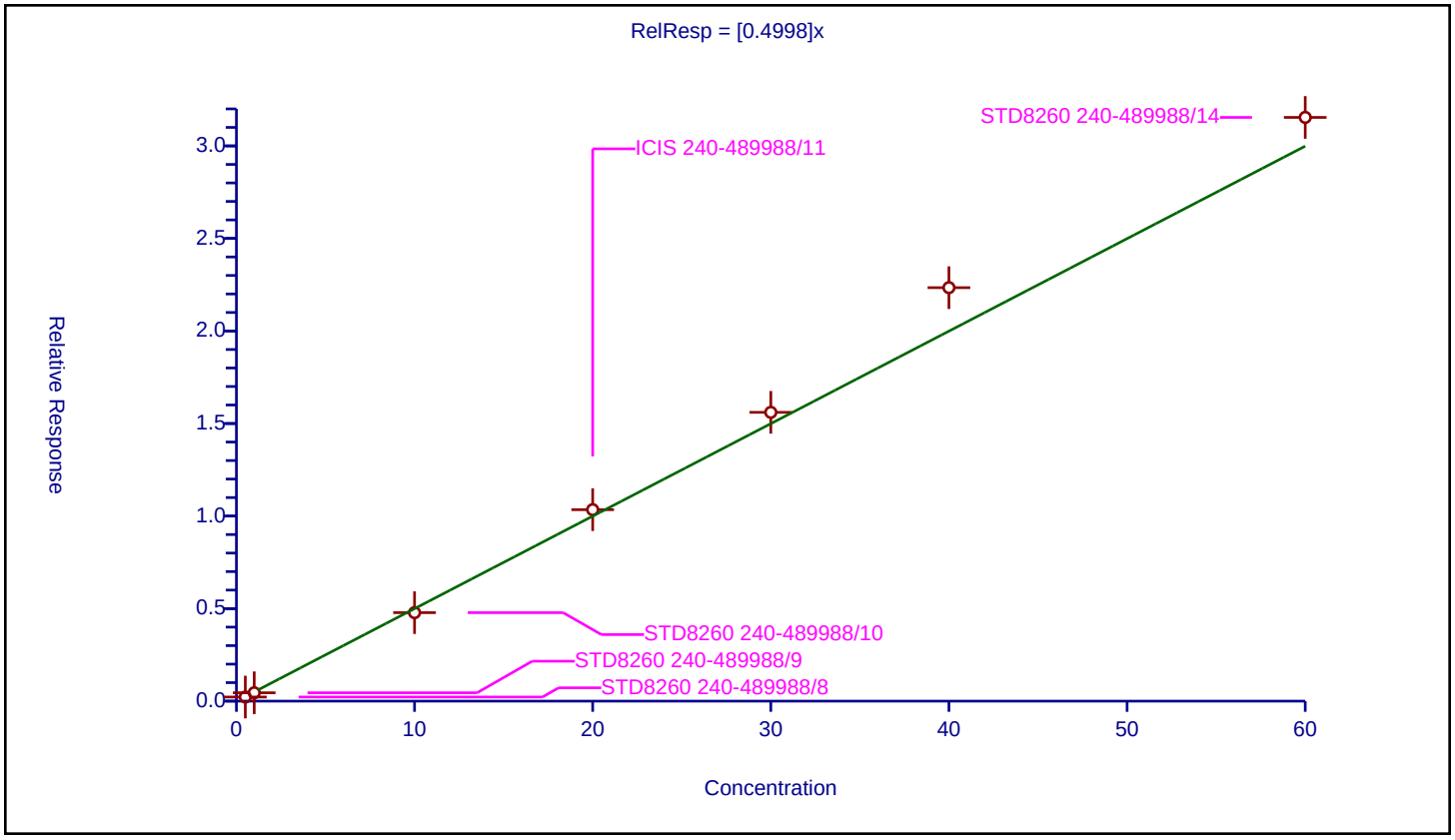
Curve Coefficients

Intercept:	0
Slope:	0.4998

Error Coefficients

Standard Error:	867000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.222963	20.0	969129.0	0.445926	Y
2	STD8260 240-489988/9	1.0	0.452874	20.0	966538.0	0.452874	Y
3	STD8260 240-489988/10	10.0	4.781544	20.0	994273.0	0.478154	Y
4	ICIS 240-489988/11	20.0	10.344526	20.0	941178.0	0.517226	Y
5	STD8260 240-489988/12	30.0	15.60416	20.0	966359.0	0.520139	Y
6	STD8260 240-489988/13	40.0	22.341627	20.0	963151.0	0.558541	Y
7	STD8260 240-489988/14	60.0	31.53994	20.0	1001617.0	0.525666	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

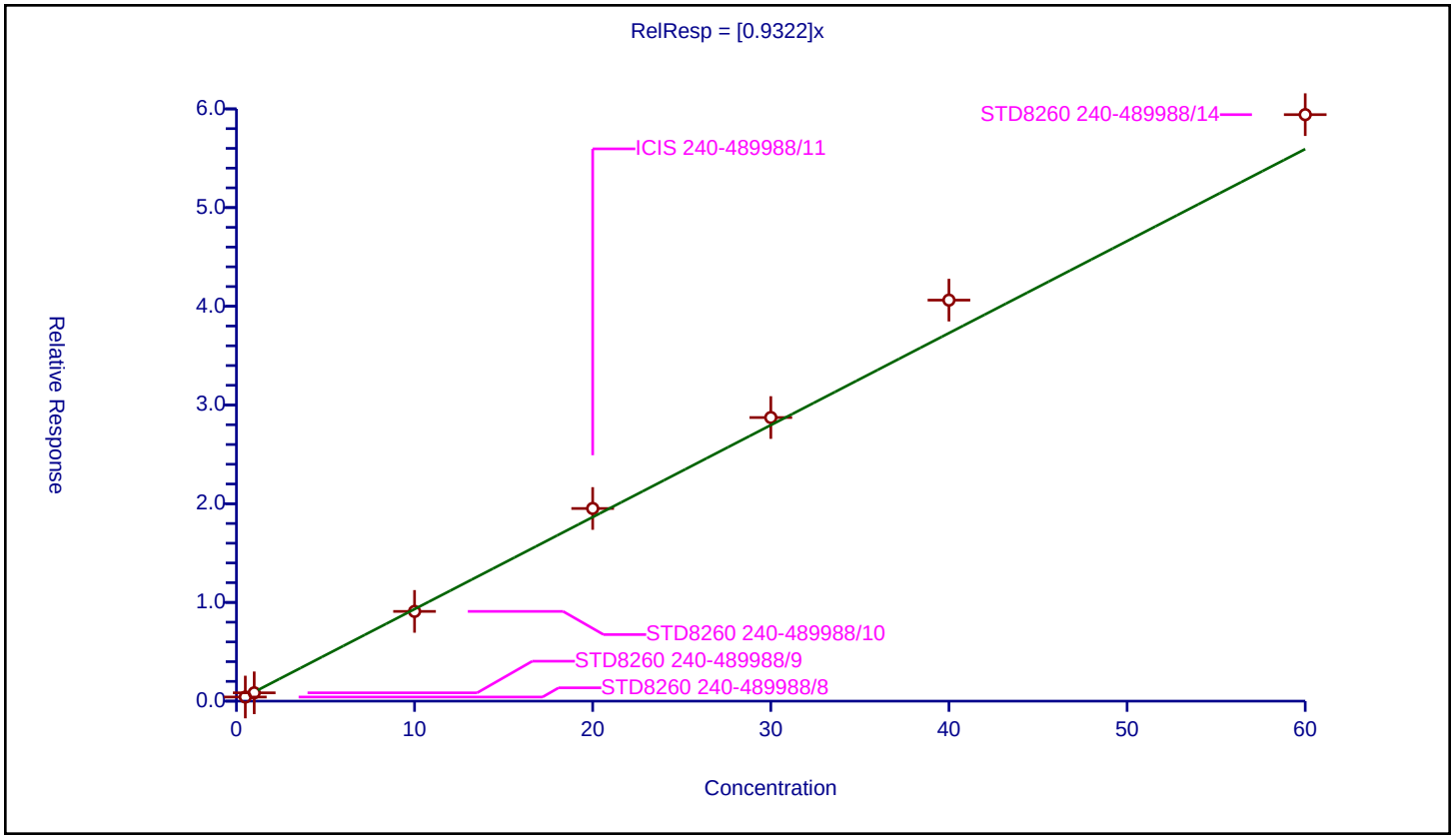
Curve Coefficients

Intercept:	0
Slope:	0.9322

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.416209	20.0	969129.0	0.832418	Y
2	STD8260 240-489988/9	1.0	0.844168	20.0	966538.0	0.844168	Y
3	STD8260 240-489988/10	10.0	9.091205	20.0	994273.0	0.909121	Y
4	ICIS 240-489988/11	20.0	19.516606	20.0	941178.0	0.97583	Y
5	STD8260 240-489988/12	30.0	28.731455	20.0	966359.0	0.957715	Y
6	STD8260 240-489988/13	40.0	40.627254	20.0	963151.0	1.015681	Y
7	STD8260 240-489988/14	60.0	59.416743	20.0	1001617.0	0.990279	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

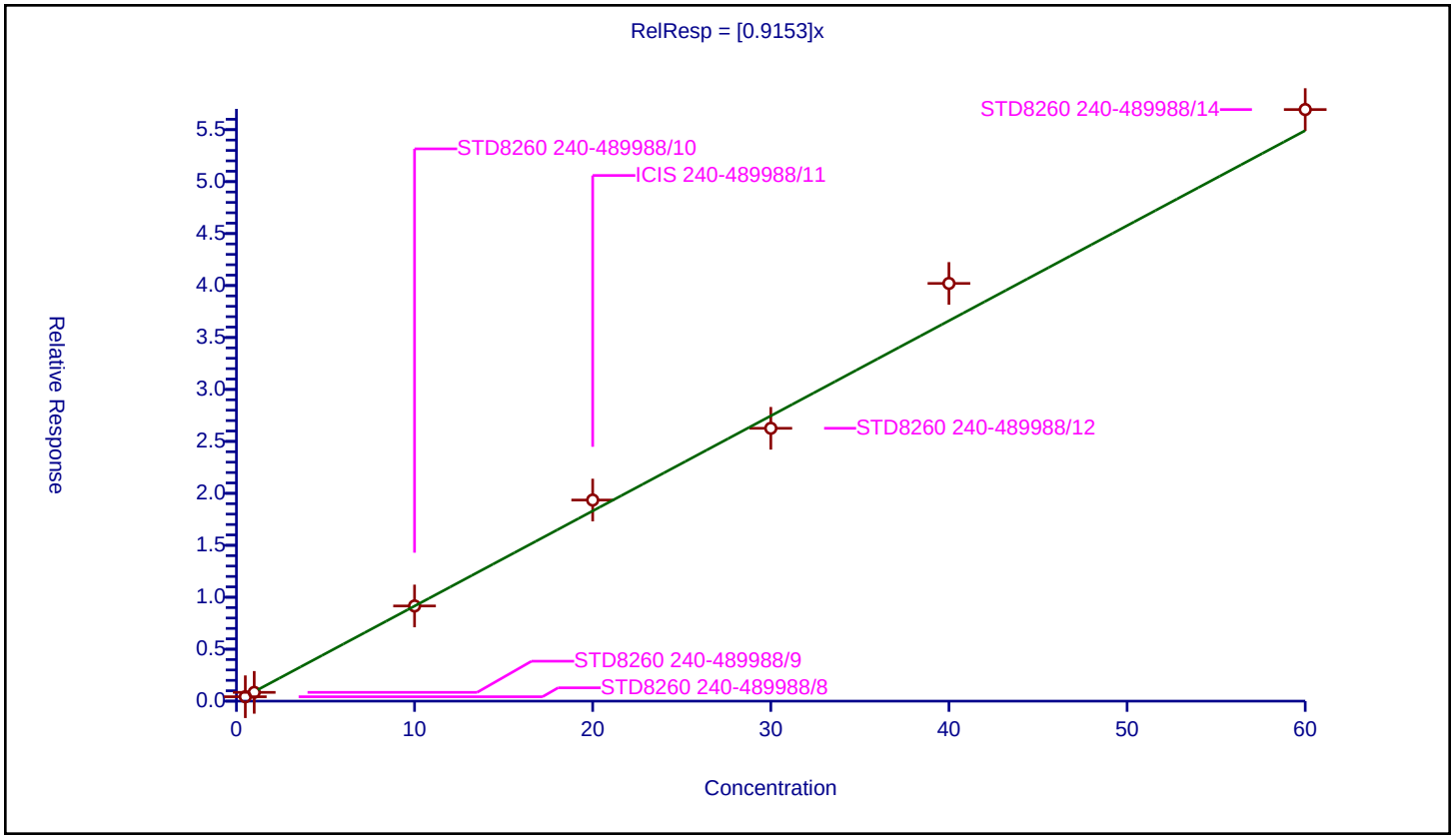
Curve Coefficients

Intercept:	0
Slope:	0.9153

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	6.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.42436	20.0	969129.0	0.848721	Y
2	STD8260 240-489988/9	1.0	0.844975	20.0	966538.0	0.844975	Y
3	STD8260 240-489988/10	10.0	9.160462	20.0	994273.0	0.916046	Y
4	ICIS 240-489988/11	20.0	19.353555	20.0	941178.0	0.967678	Y
5	STD8260 240-489988/12	30.0	26.260117	20.0	966359.0	0.875337	Y
6	STD8260 240-489988/13	40.0	40.202191	20.0	963151.0	1.005055	Y
7	STD8260 240-489988/14	60.0	56.936613	20.0	1001617.0	0.948944	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

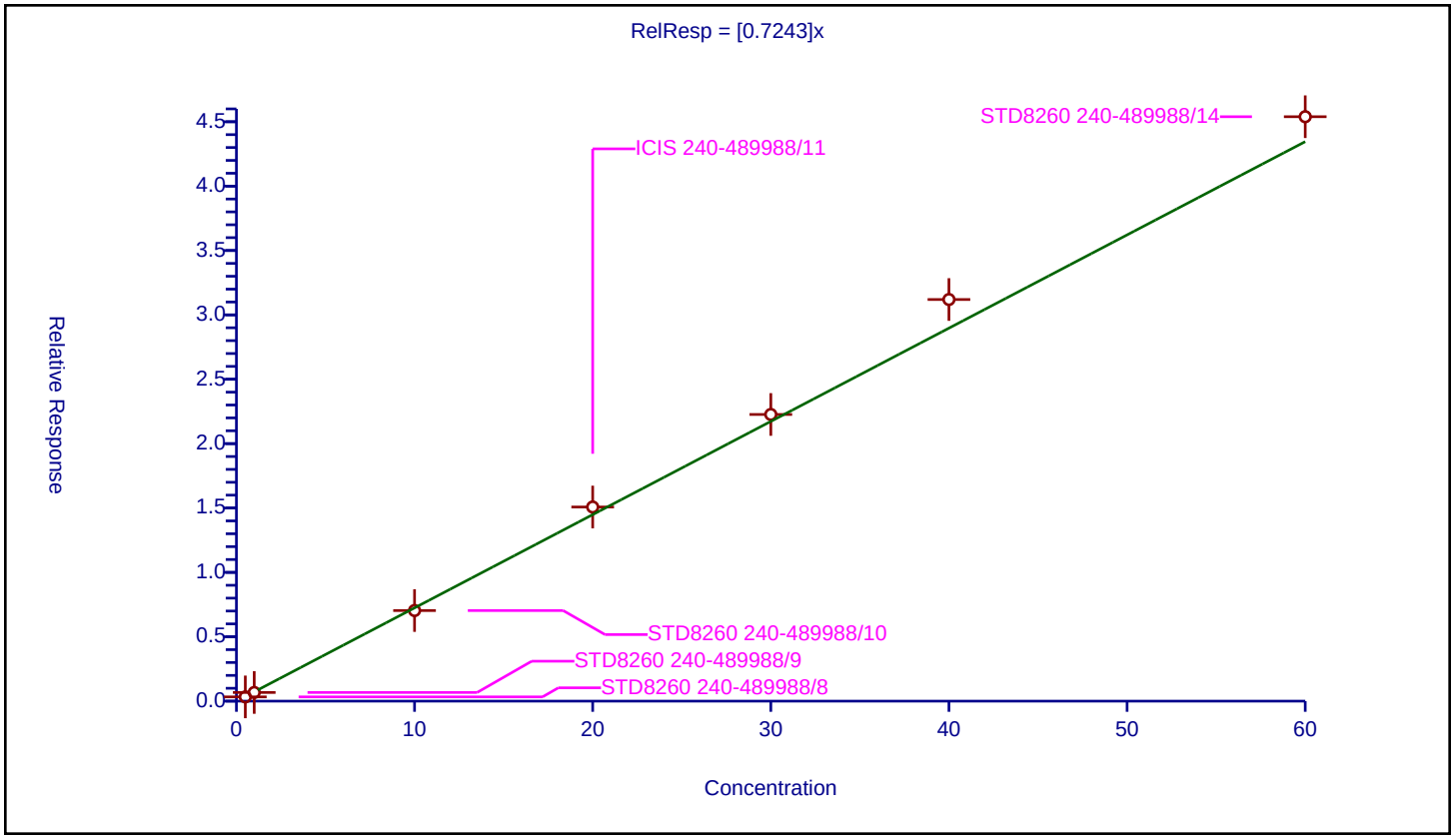
Curve Coefficients

Intercept:	0
Slope:	0.7243

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.330606	20.0	969129.0	0.661212	Y
2	STD8260 240-489988/9	1.0	0.672503	20.0	966538.0	0.672503	Y
3	STD8260 240-489988/10	10.0	7.036377	20.0	994273.0	0.703638	Y
4	ICIS 240-489988/11	20.0	15.077679	20.0	941178.0	0.753884	Y
5	STD8260 240-489988/12	30.0	22.266218	20.0	966359.0	0.742207	Y
6	STD8260 240-489988/13	40.0	31.194382	20.0	963151.0	0.77986	Y
7	STD8260 240-489988/14	60.0	45.391382	20.0	1001617.0	0.756523	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

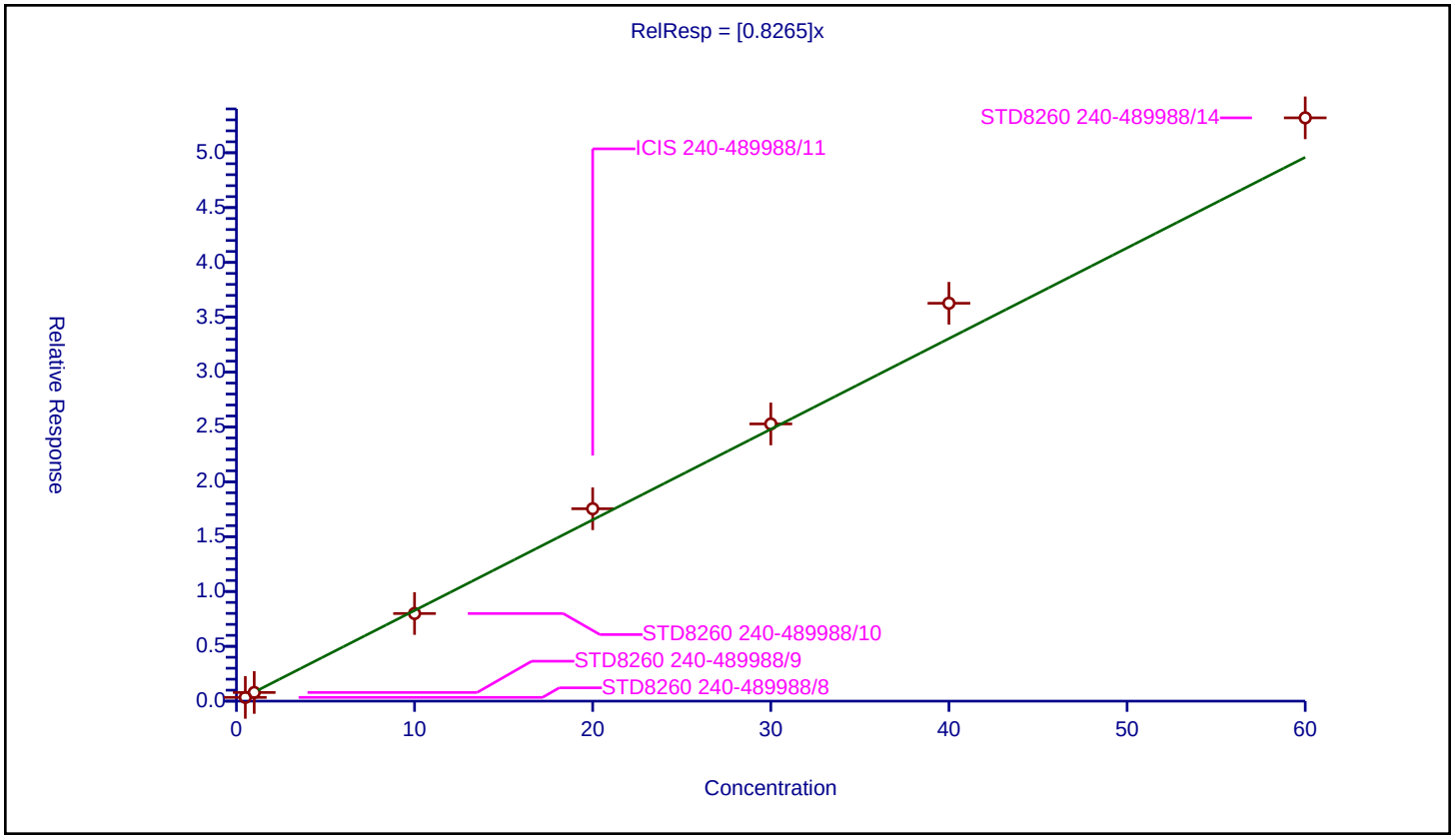
Curve Coefficients

Intercept:	0
Slope:	0.8265

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	9.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.341379	20.0	969129.0	0.682757	Y
2	STD8260 240-489988/9	1.0	0.790471	20.0	966538.0	0.790471	Y
3	STD8260 240-489988/10	10.0	7.990622	20.0	994273.0	0.799062	Y
4	ICIS 240-489988/11	20.0	17.540763	20.0	941178.0	0.877038	Y
5	STD8260 240-489988/12	30.0	25.275907	20.0	966359.0	0.84253	Y
6	STD8260 240-489988/13	40.0	36.279794	20.0	963151.0	0.906995	Y
7	STD8260 240-489988/14	60.0	53.18518	20.0	1001617.0	0.88642	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

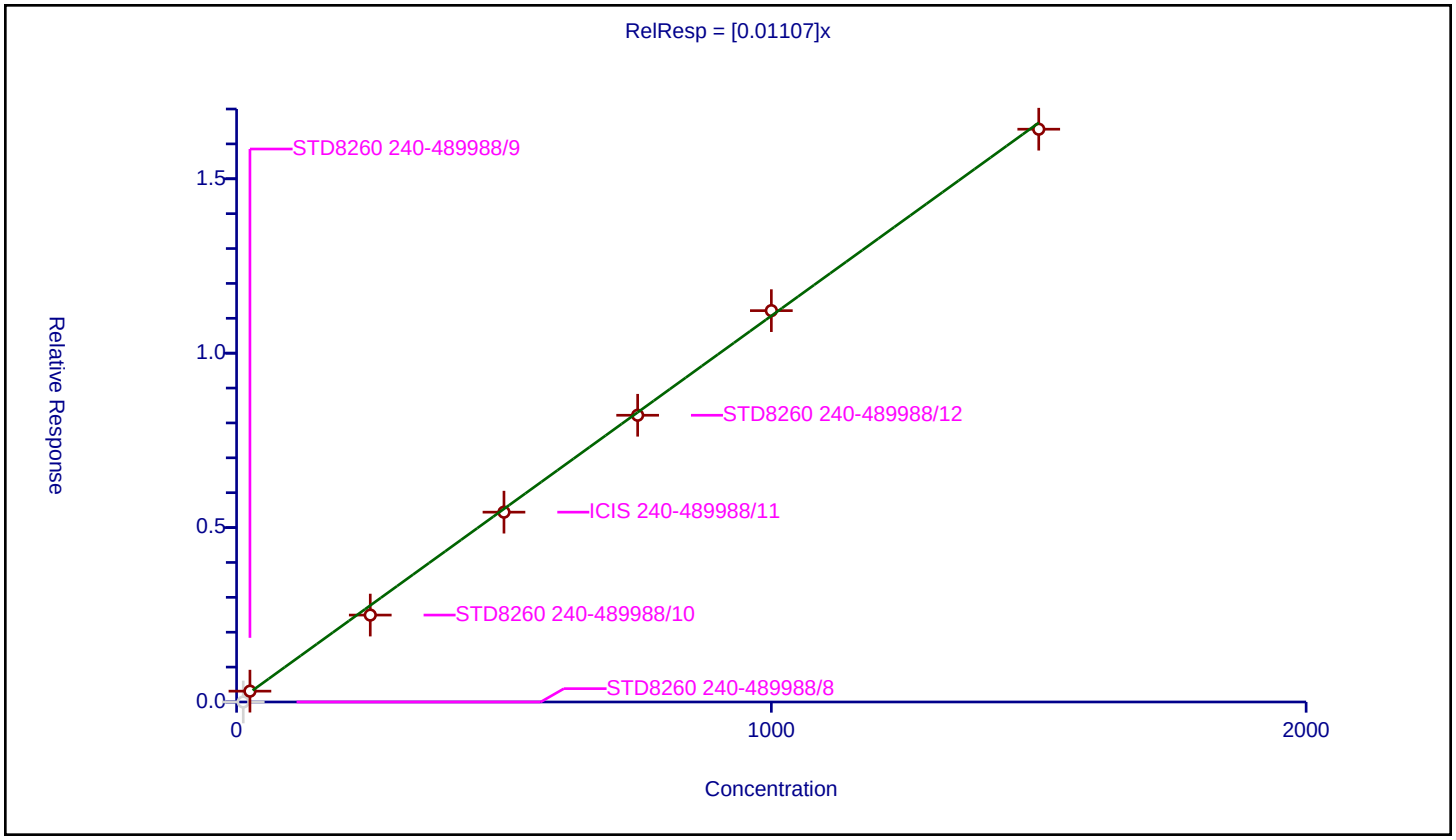
Curve Coefficients

Intercept:	0
Slope:	0.01107

Error Coefficients

Standard Error:	491000
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 240-489988/8	12.5	0.0	20.0	969129.0	0.0	N
2	STD8260 240-489988/9	25.0	0.31109	20.0	966538.0	0.012444	Y
3	STD8260 240-489988/10	250.0	2.491851	20.0	994273.0	0.009967	Y
4	ICIS 240-489988/11	500.0	5.441819	20.0	941178.0	0.010884	Y
5	STD8260 240-489988/12	750.0	8.220734	20.0	966359.0	0.010961	Y
6	STD8260 240-489988/13	1000.0	11.219881	20.0	963151.0	0.01122	Y
7	STD8260 240-489988/14	1500.0	16.421466	20.0	1001617.0	0.010948	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

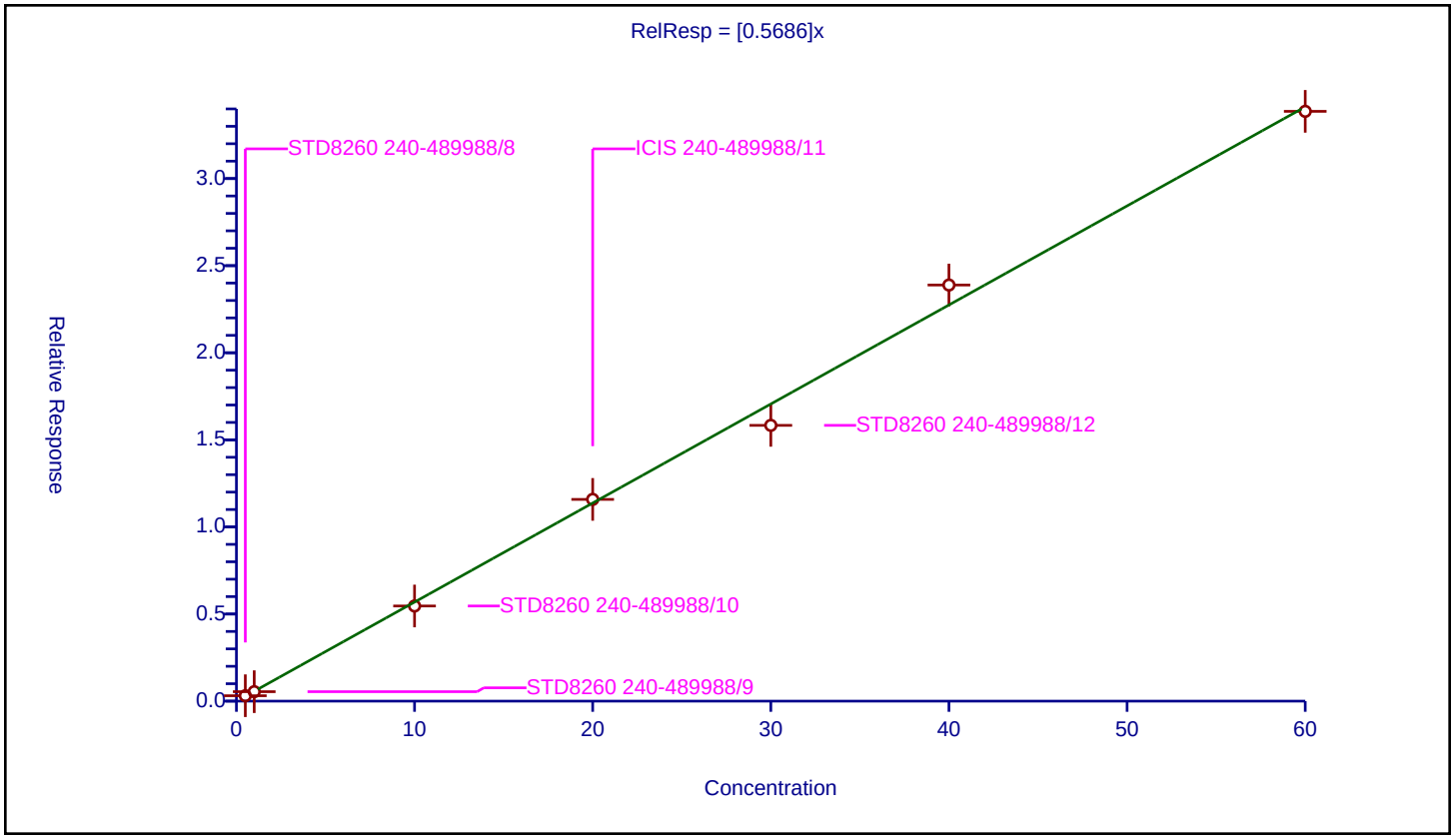
Curve Coefficients

Intercept:	0
Slope:	0.5686

Error Coefficients

Standard Error:	927000
Relative Standard Error:	5.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.310712	20.0	969129.0	0.621424	Y
2	STD8260 240-489988/9	1.0	0.544169	20.0	966538.0	0.544169	Y
3	STD8260 240-489988/10	10.0	5.462826	20.0	994273.0	0.546283	Y
4	ICIS 240-489988/11	20.0	11.582209	20.0	941178.0	0.57911	Y
5	STD8260 240-489988/12	30.0	15.832025	20.0	966359.0	0.527734	Y
6	STD8260 240-489988/13	40.0	23.888009	20.0	963151.0	0.5972	Y
7	STD8260 240-489988/14	60.0	33.85921	20.0	1001617.0	0.56432	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

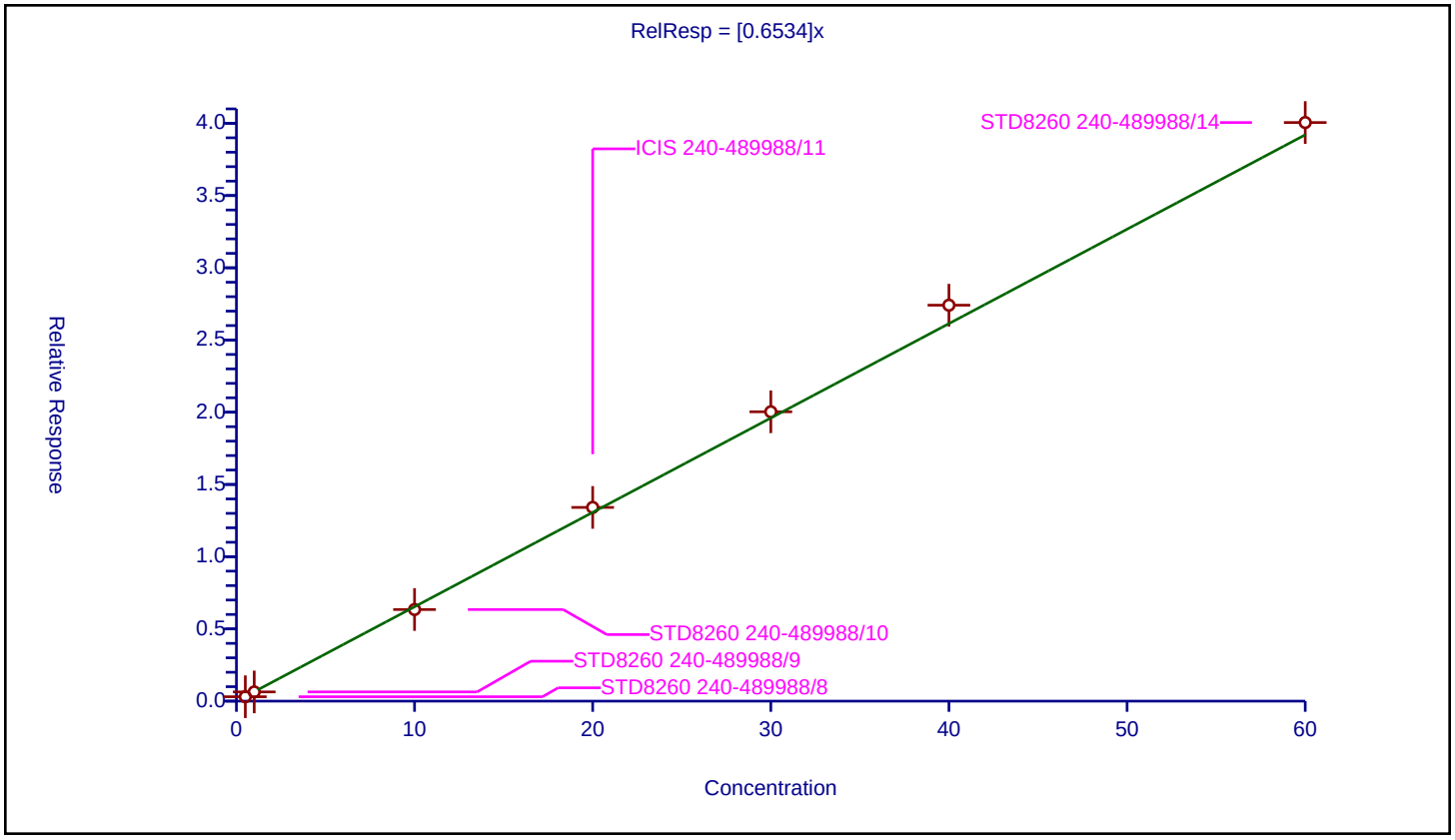
Curve Coefficients

Intercept:	0
Slope:	0.6534

Error Coefficients

Standard Error:	1100000
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 240-489988/8	0.5	0.304727	20.0	969129.0	0.609454	Y
2	STD8260 240-489988/9	1.0	0.638961	20.0	966538.0	0.638961	Y
3	STD8260 240-489988/10	10.0	6.342644	20.0	994273.0	0.634264	Y
4	ICIS 240-489988/11	20.0	13.410131	20.0	941178.0	0.670507	Y
5	STD8260 240-489988/12	30.0	20.032141	20.0	966359.0	0.667738	Y
6	STD8260 240-489988/13	40.0	27.410198	20.0	963151.0	0.685255	Y
7	STD8260 240-489988/14	60.0	40.056848	20.0	1001617.0	0.667614	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

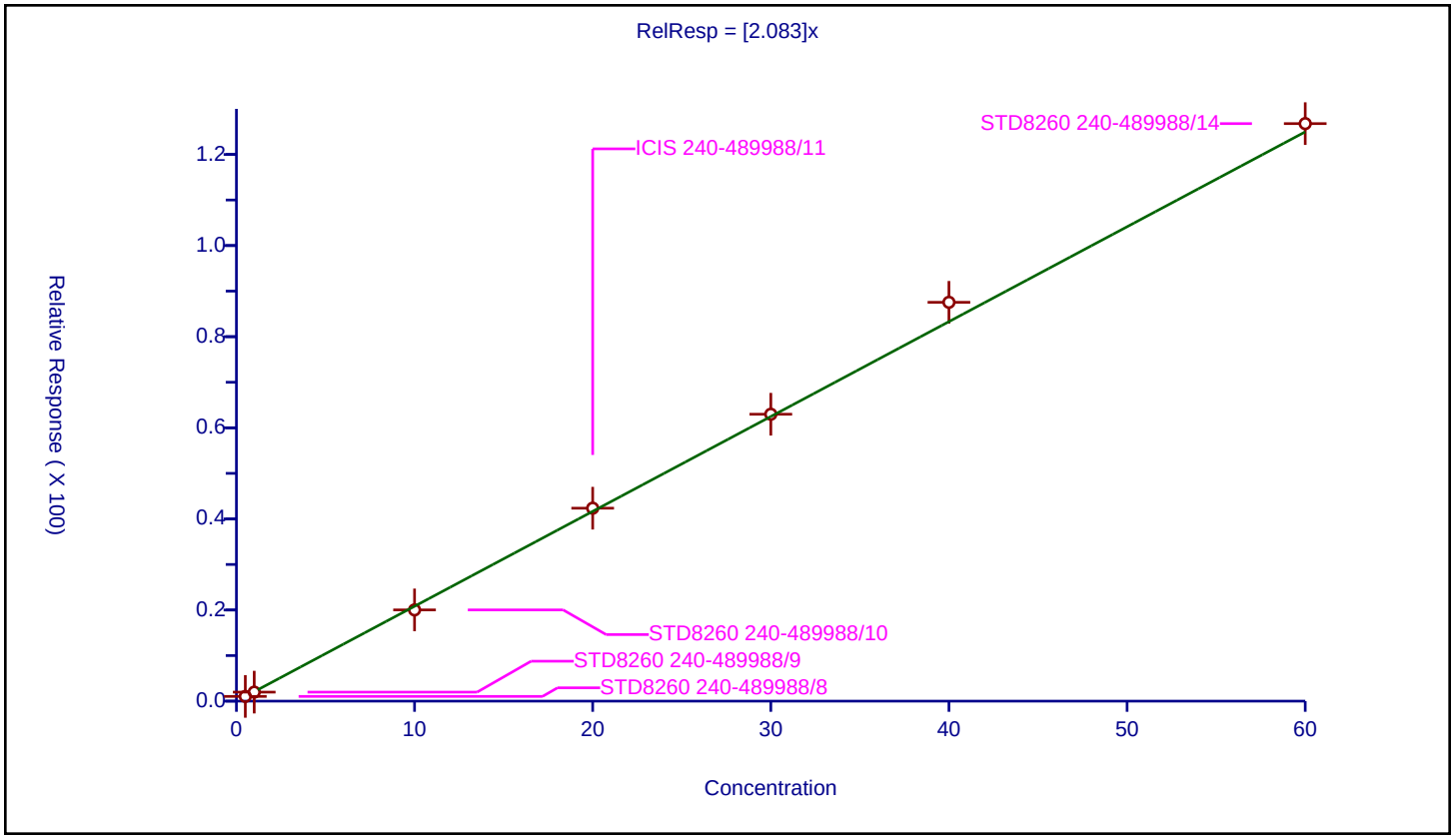
Curve Coefficients

Intercept:	0
Slope:	2.083

Error Coefficients

Standard Error:	3470000
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 240-489988/8	0.5	1.039965	20.0	969129.0	2.07993	Y
2	STD8260 240-489988/9	1.0	1.977429	20.0	966538.0	1.977429	Y
3	STD8260 240-489988/10	10.0	20.026592	20.0	994273.0	2.002659	Y
4	ICIS 240-489988/11	20.0	42.350607	20.0	941178.0	2.11753	Y
5	STD8260 240-489988/12	30.0	62.9779	20.0	966359.0	2.099263	Y
6	STD8260 240-489988/13	40.0	87.545442	20.0	963151.0	2.188636	Y
7	STD8260 240-489988/14	60.0	126.767477	20.0	1001617.0	2.112791	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

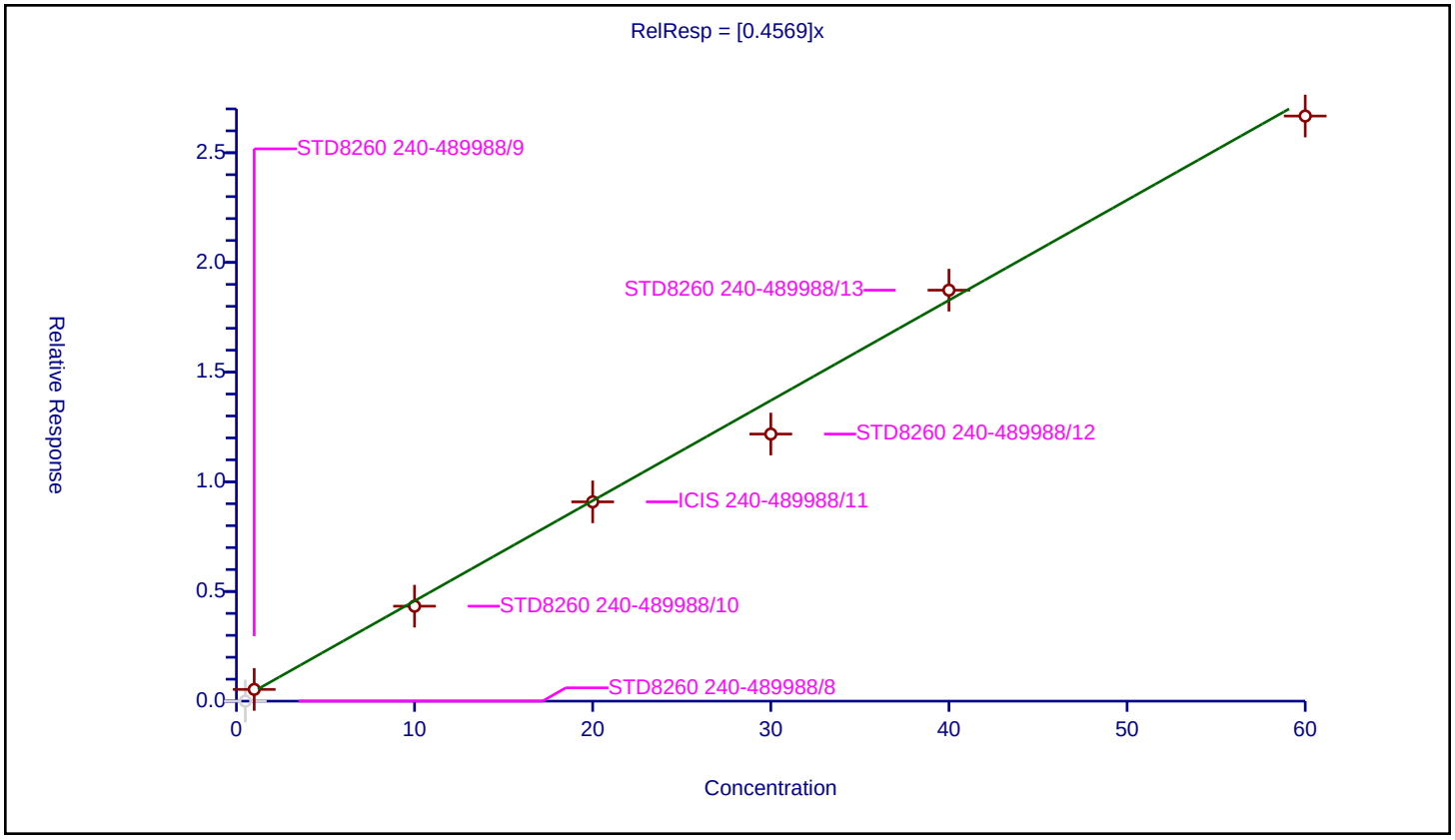
Curve Coefficients

Intercept:	0
Slope:	0.4569

Error Coefficients

Standard Error:	797000
Relative Standard Error:	9.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.0	20.0	969129.0	0.0	N
2	STD8260 240-489988/9	1.0	0.535209	20.0	966538.0	0.535209	Y
3	STD8260 240-489988/10	10.0	4.329636	20.0	994273.0	0.432964	Y
4	ICIS 240-489988/11	20.0	9.085253	20.0	941178.0	0.454263	Y
5	STD8260 240-489988/12	30.0	12.176593	20.0	966359.0	0.405886	Y
6	STD8260 240-489988/13	40.0	18.73619	20.0	963151.0	0.468405	Y
7	STD8260 240-489988/14	60.0	26.674108	20.0	1001617.0	0.444568	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

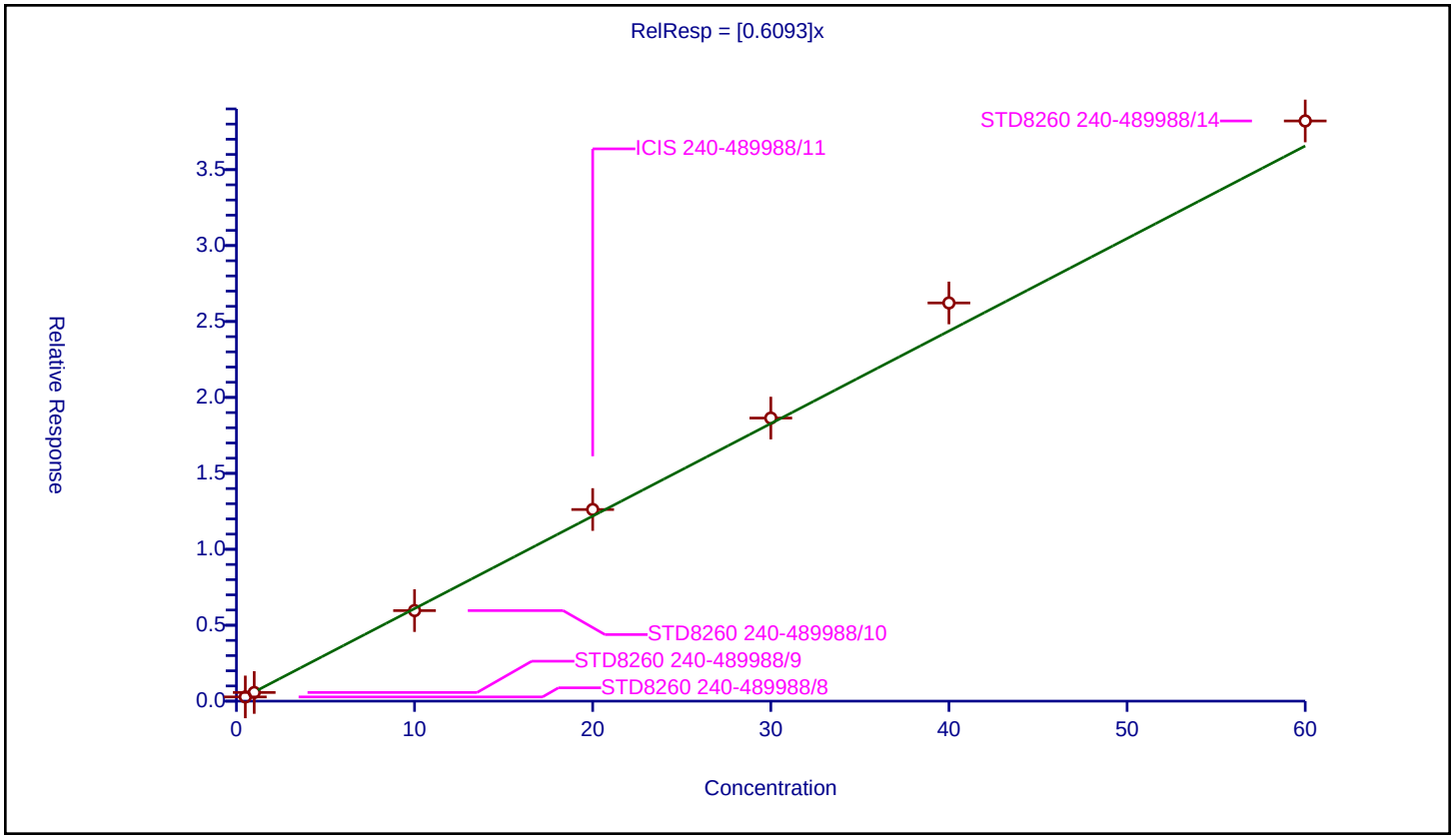
Curve Coefficients

Intercept:	0
Slope:	0.6093

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.277218	20.0	969129.0	0.554436	Y
2	STD8260 240-489988/9	1.0	0.570014	20.0	966538.0	0.570014	Y
3	STD8260 240-489988/10	10.0	5.96297	20.0	994273.0	0.596297	Y
4	ICIS 240-489988/11	20.0	12.618144	20.0	941178.0	0.630907	Y
5	STD8260 240-489988/12	30.0	18.640878	20.0	966359.0	0.621363	Y
6	STD8260 240-489988/13	40.0	26.220707	20.0	963151.0	0.655518	Y
7	STD8260 240-489988/14	60.0	38.204723	20.0	1001617.0	0.636745	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

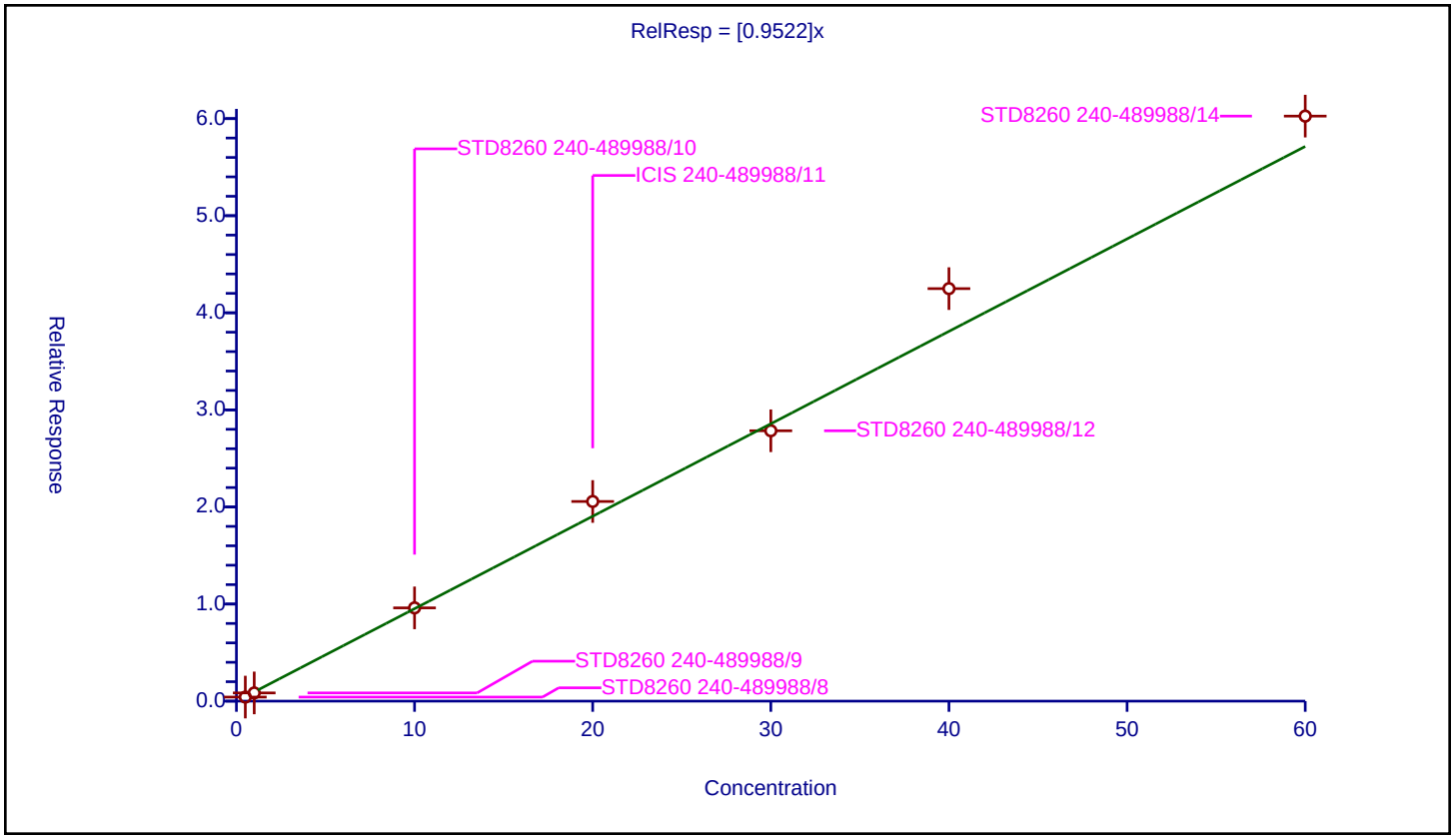
Curve Coefficients

Intercept:	0
Slope:	0.9522

Error Coefficients

Standard Error:	1650000
Relative Standard Error:	9.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.417117	20.0	969129.0	0.834234	Y
2	STD8260 240-489988/9	1.0	0.847499	20.0	966538.0	0.847499	Y
3	STD8260 240-489988/10	10.0	9.605812	20.0	994273.0	0.960581	Y
4	ICIS 240-489988/11	20.0	20.564739	20.0	941178.0	1.028237	Y
5	STD8260 240-489988/12	30.0	27.848263	20.0	966359.0	0.928275	Y
6	STD8260 240-489988/13	40.0	42.487543	20.0	963151.0	1.062189	Y
7	STD8260 240-489988/14	60.0	60.256665	20.0	1001617.0	1.004278	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

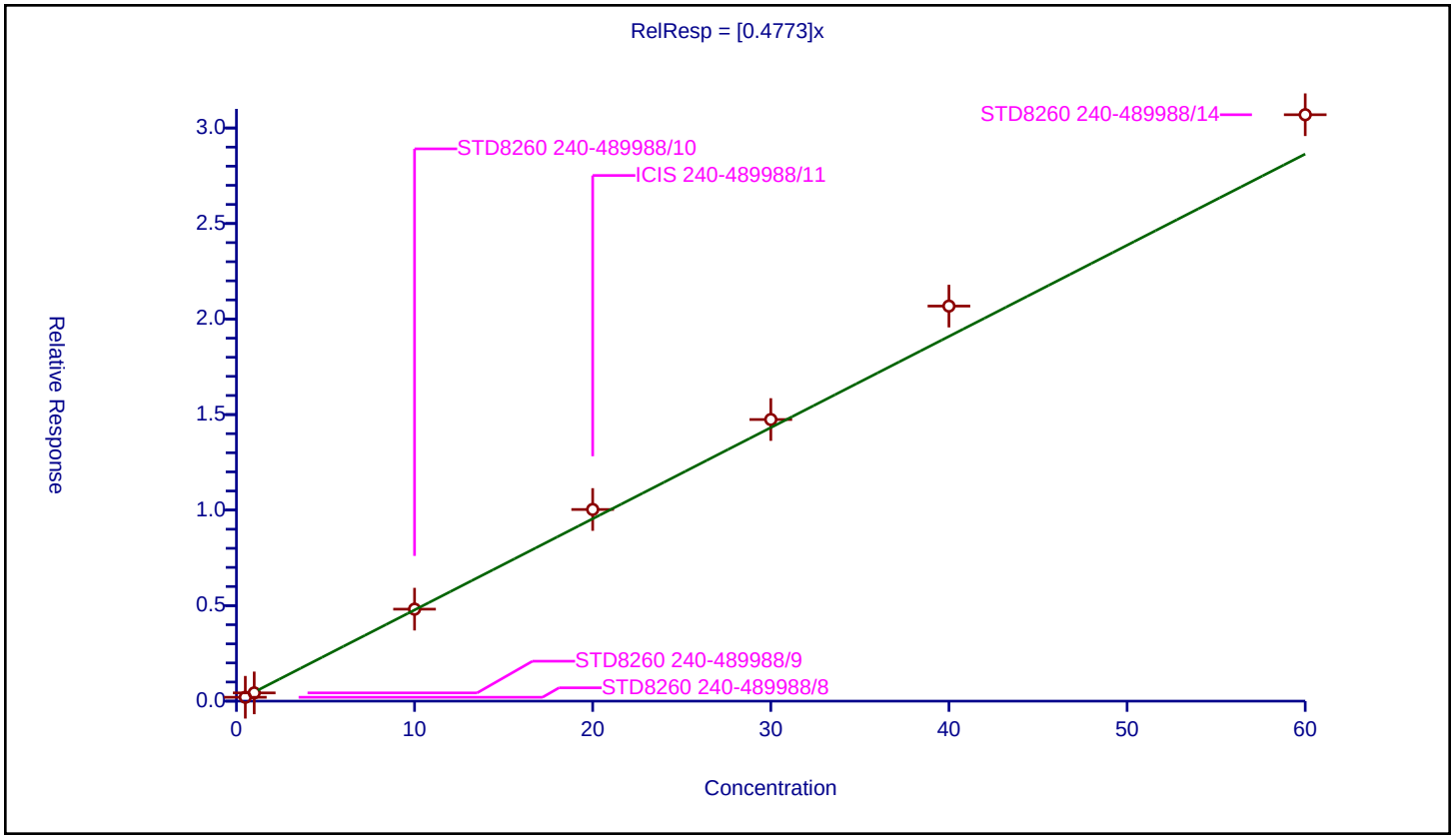
Curve Coefficients

Intercept:	0
Slope:	0.4773

Error Coefficients

Standard Error:	831000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.203213	20.0	969129.0	0.406427	Y
2	STD8260 240-489988/9	1.0	0.431561	20.0	966538.0	0.431561	Y
3	STD8260 240-489988/10	10.0	4.815116	20.0	994273.0	0.481512	Y
4	ICIS 240-489988/11	20.0	10.031344	20.0	941178.0	0.501567	Y
5	STD8260 240-489988/12	30.0	14.740919	20.0	966359.0	0.491364	Y
6	STD8260 240-489988/13	40.0	20.678689	20.0	963151.0	0.516967	Y
7	STD8260 240-489988/14	60.0	30.694108	20.0	1001617.0	0.511568	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

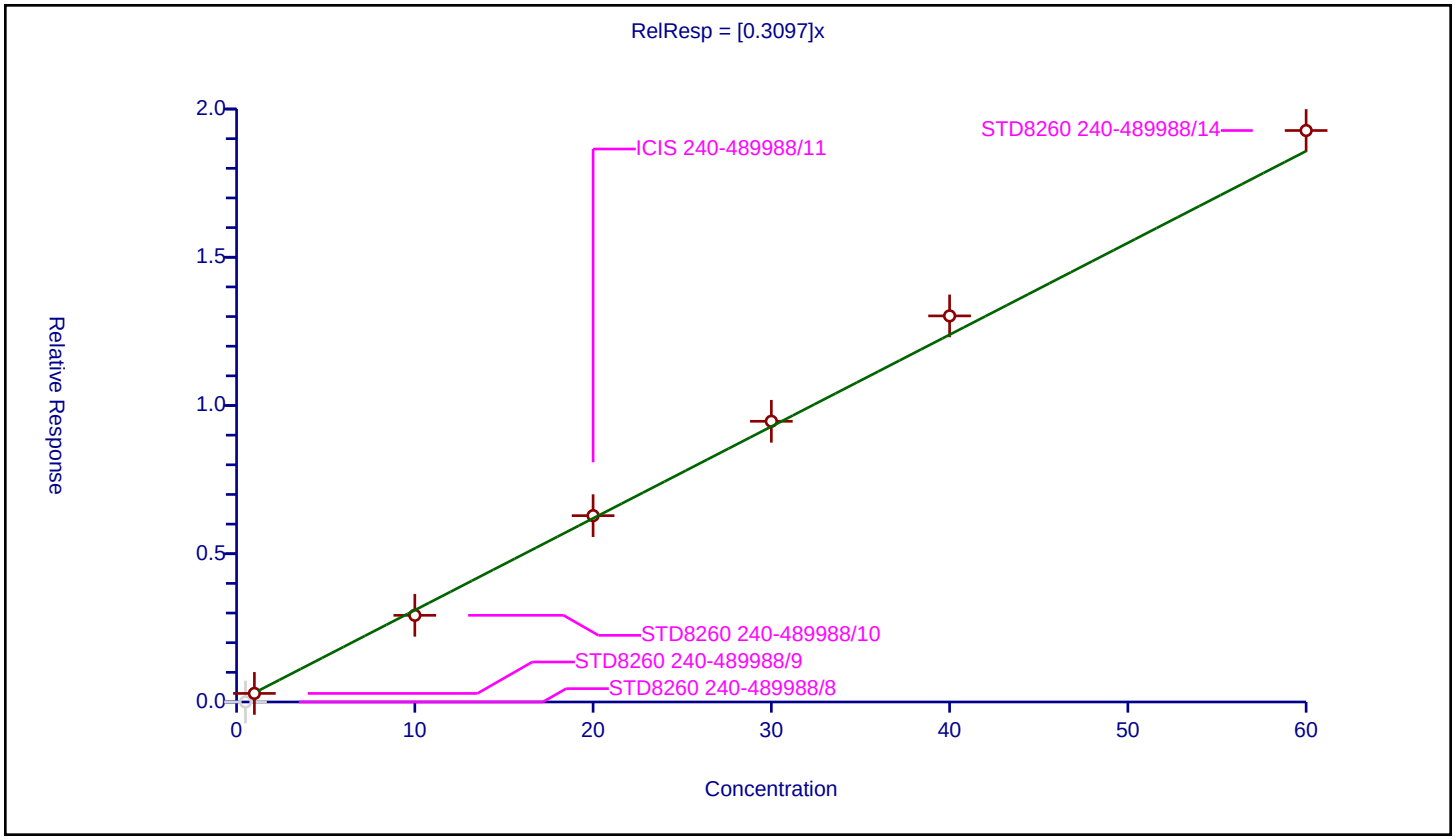
Curve Coefficients

Intercept:	0
Slope:	0.3097

Error Coefficients

Standard Error:	573000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.0	20.0	969129.0	0.0	N
2	STD8260 240-489988/9	1.0	0.289156	20.0	966538.0	0.289156	Y
3	STD8260 240-489988/10	10.0	2.923543	20.0	994273.0	0.292354	Y
4	ICIS 240-489988/11	20.0	6.284741	20.0	941178.0	0.314237	Y
5	STD8260 240-489988/12	30.0	9.467931	20.0	966359.0	0.315598	Y
6	STD8260 240-489988/13	40.0	13.022527	20.0	963151.0	0.325563	Y
7	STD8260 240-489988/14	60.0	19.274653	20.0	1001617.0	0.321244	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

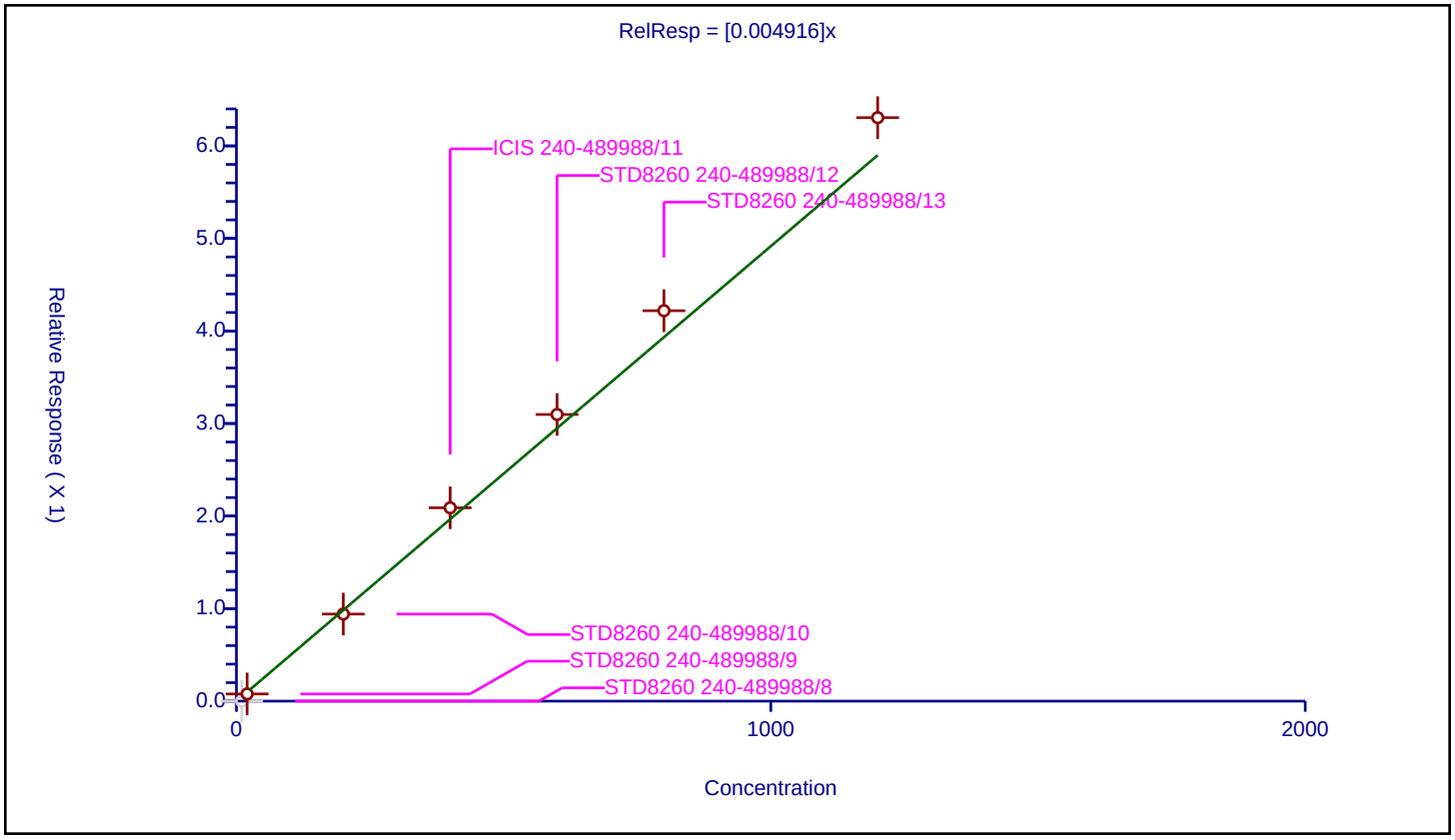
Curve Coefficients

Intercept:	0
Slope:	0.004916

Error Coefficients

Standard Error:	187000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	10.0	0.0	20.0	969129.0	0.0	N
2	STD8260 240-489988/9	20.0	0.077534	20.0	966538.0	0.003877	Y
3	STD8260 240-489988/10	200.0	0.940989	20.0	994273.0	0.004705	Y
4	ICIS 240-489988/11	400.0	2.08953	20.0	941178.0	0.005224	Y
5	STD8260 240-489988/12	600.0	3.097648	20.0	966359.0	0.005163	Y
6	STD8260 240-489988/13	800.0	4.21911	20.0	963151.0	0.005274	Y
7	STD8260 240-489988/14	1200.0	6.305324	20.0	1001617.0	0.005254	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

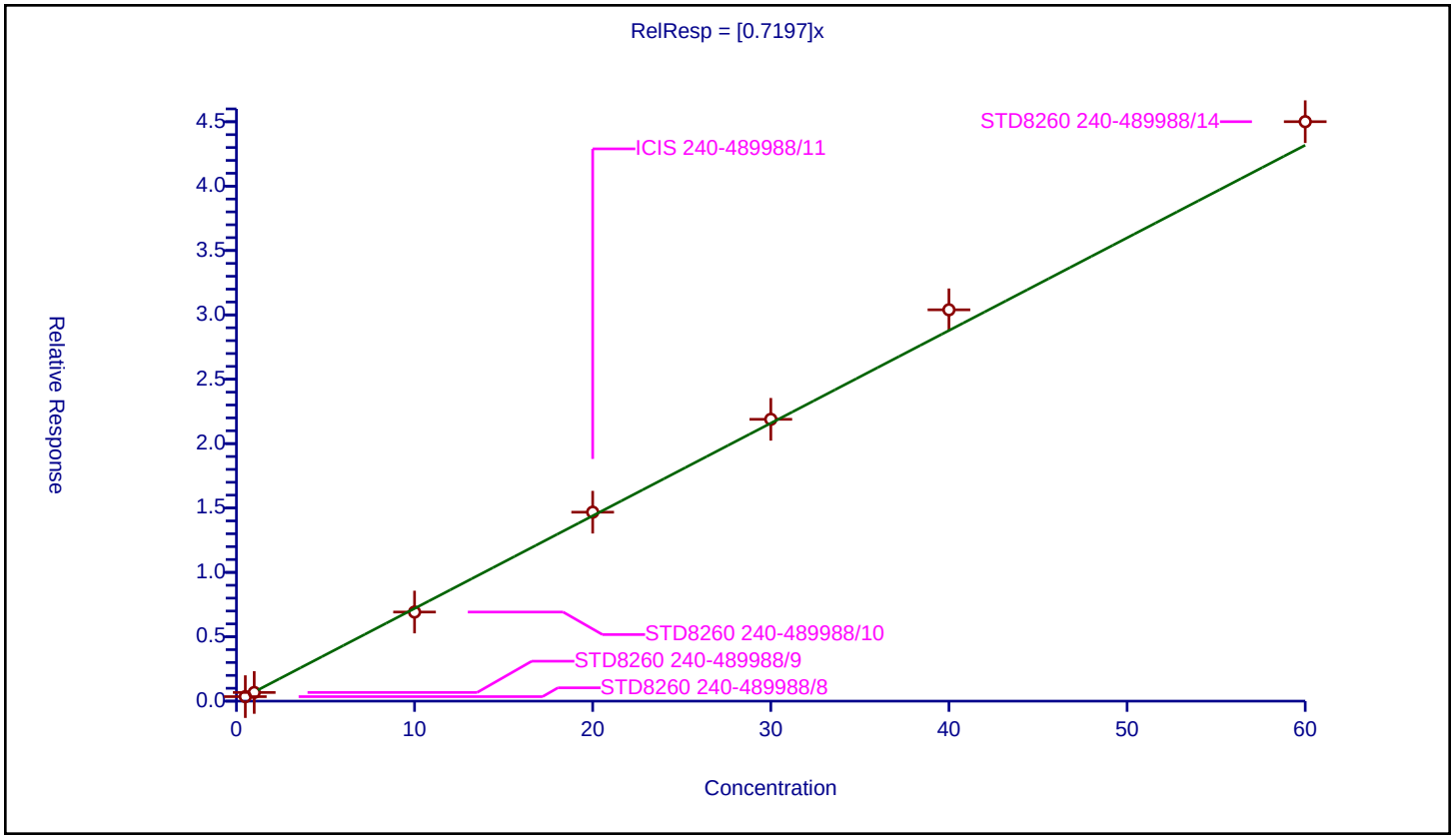
Curve Coefficients

Intercept:	0
Slope:	0.7197

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.349799	20.0	969129.0	0.699597	Y
2	STD8260 240-489988/9	1.0	0.672524	20.0	966538.0	0.672524	Y
3	STD8260 240-489988/10	10.0	6.921721	20.0	994273.0	0.692172	Y
4	ICIS 240-489988/11	20.0	14.67682	20.0	941178.0	0.733841	Y
5	STD8260 240-489988/12	30.0	21.890188	20.0	966359.0	0.729673	Y
6	STD8260 240-489988/13	40.0	30.395442	20.0	963151.0	0.759886	Y
7	STD8260 240-489988/14	60.0	45.007084	20.0	1001617.0	0.750118	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

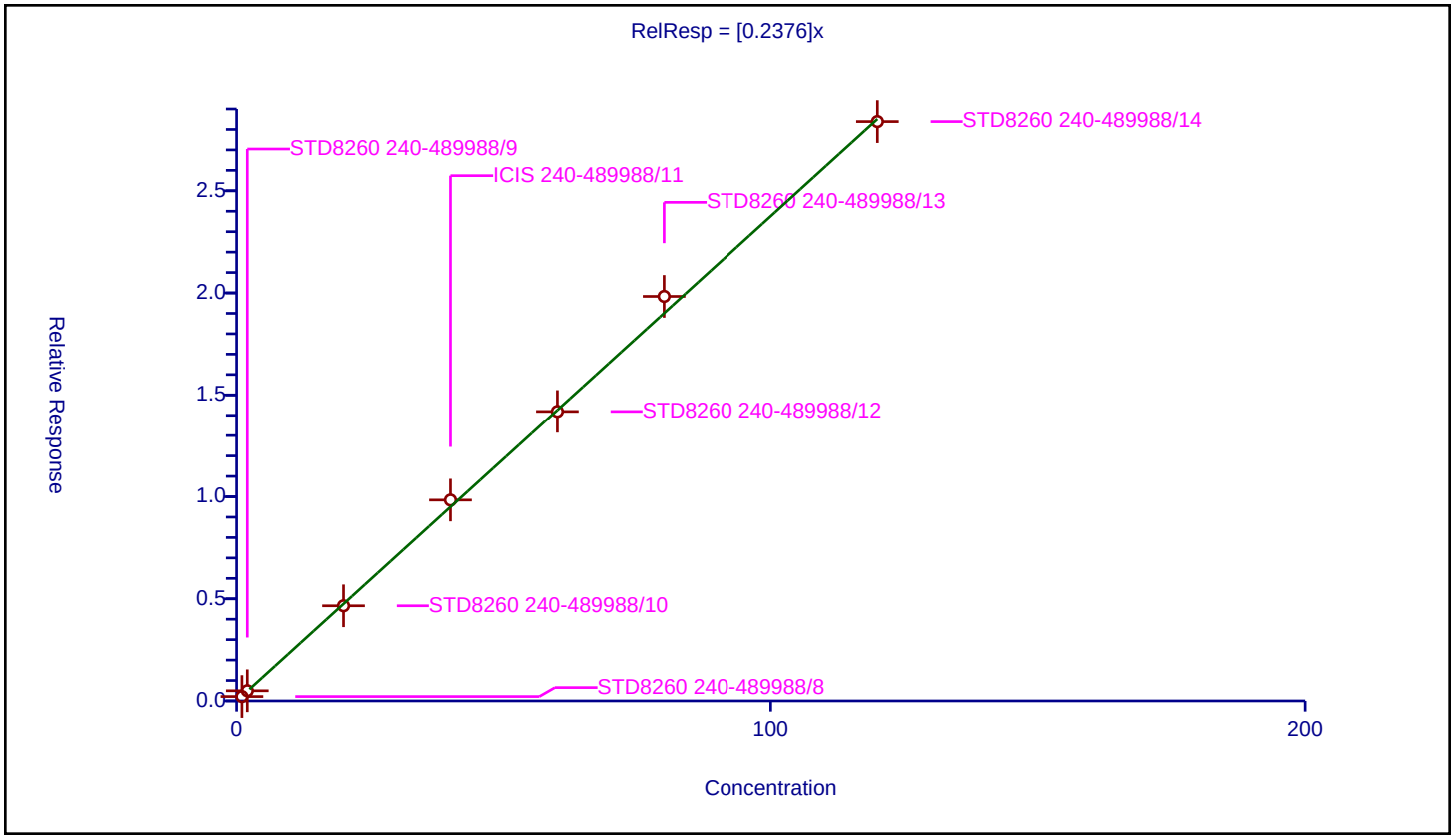
Curve Coefficients

Intercept:	0
Slope:	0.2376

Error Coefficients

Standard Error:	782000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	1.0	0.214357	20.0	969129.0	0.214357	Y
2	STD8260 240-489988/9	2.0	0.497984	20.0	966538.0	0.248992	Y
3	STD8260 240-489988/10	20.0	4.657272	20.0	994273.0	0.232864	Y
4	ICIS 240-489988/11	40.0	9.83731	20.0	941178.0	0.245933	Y
5	STD8260 240-489988/12	60.0	14.188309	20.0	966359.0	0.236472	Y
6	STD8260 240-489988/13	80.0	19.830992	20.0	963151.0	0.247887	Y
7	STD8260 240-489988/14	120.0	28.384762	20.0	1001617.0	0.23654	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

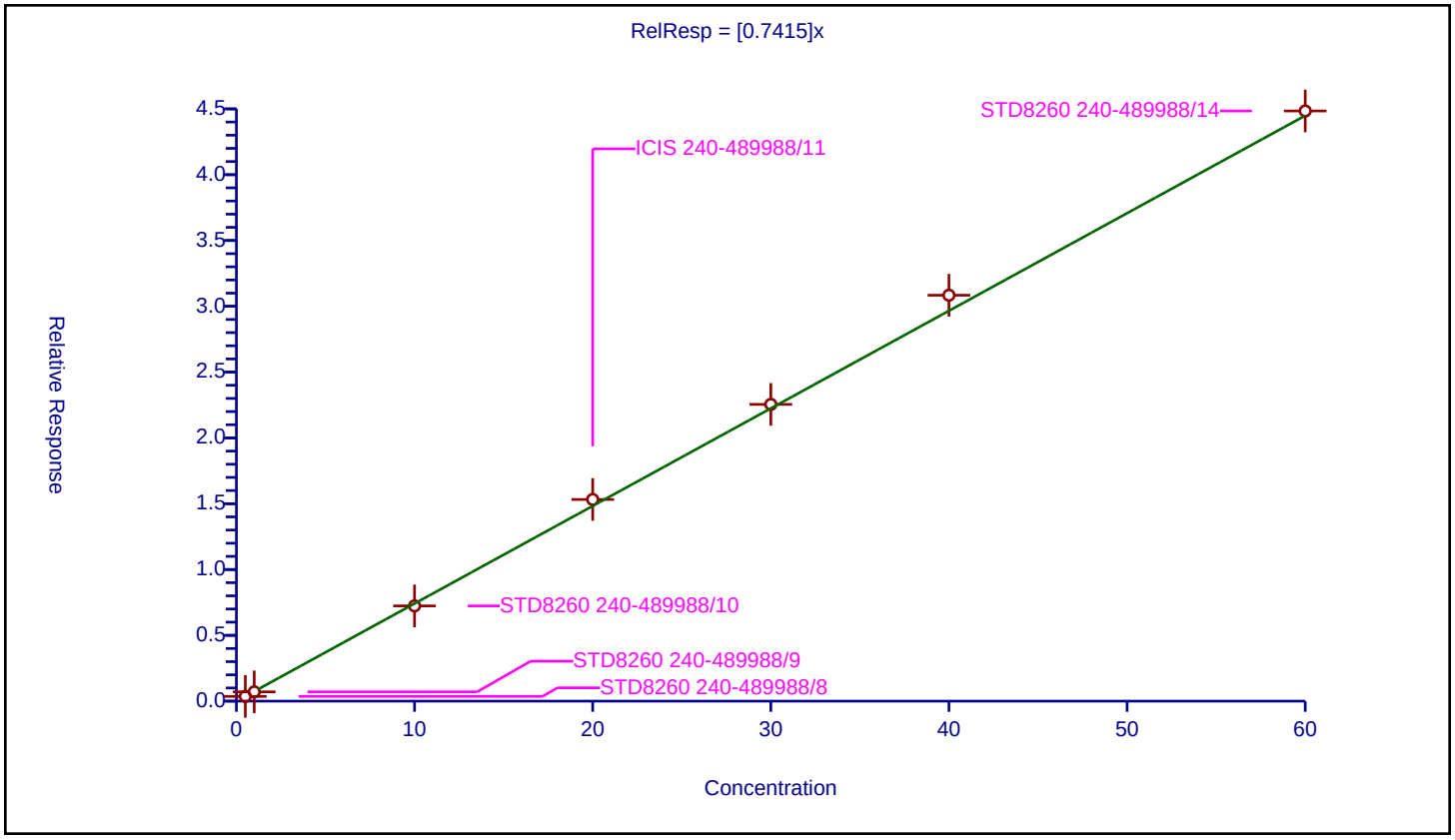
Curve Coefficients

Intercept:	0
Slope:	0.7415

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.36214	20.0	969129.0	0.724279	Y
2	STD8260 240-489988/9	1.0	0.706232	20.0	966538.0	0.706232	Y
3	STD8260 240-489988/10	10.0	7.236021	20.0	994273.0	0.723602	Y
4	ICIS 240-489988/11	20.0	15.323116	20.0	941178.0	0.766156	Y
5	STD8260 240-489988/12	30.0	22.546611	20.0	966359.0	0.751554	Y
6	STD8260 240-489988/13	40.0	30.841311	20.0	963151.0	0.771033	Y
7	STD8260 240-489988/14	60.0	44.843029	20.0	1001617.0	0.747384	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

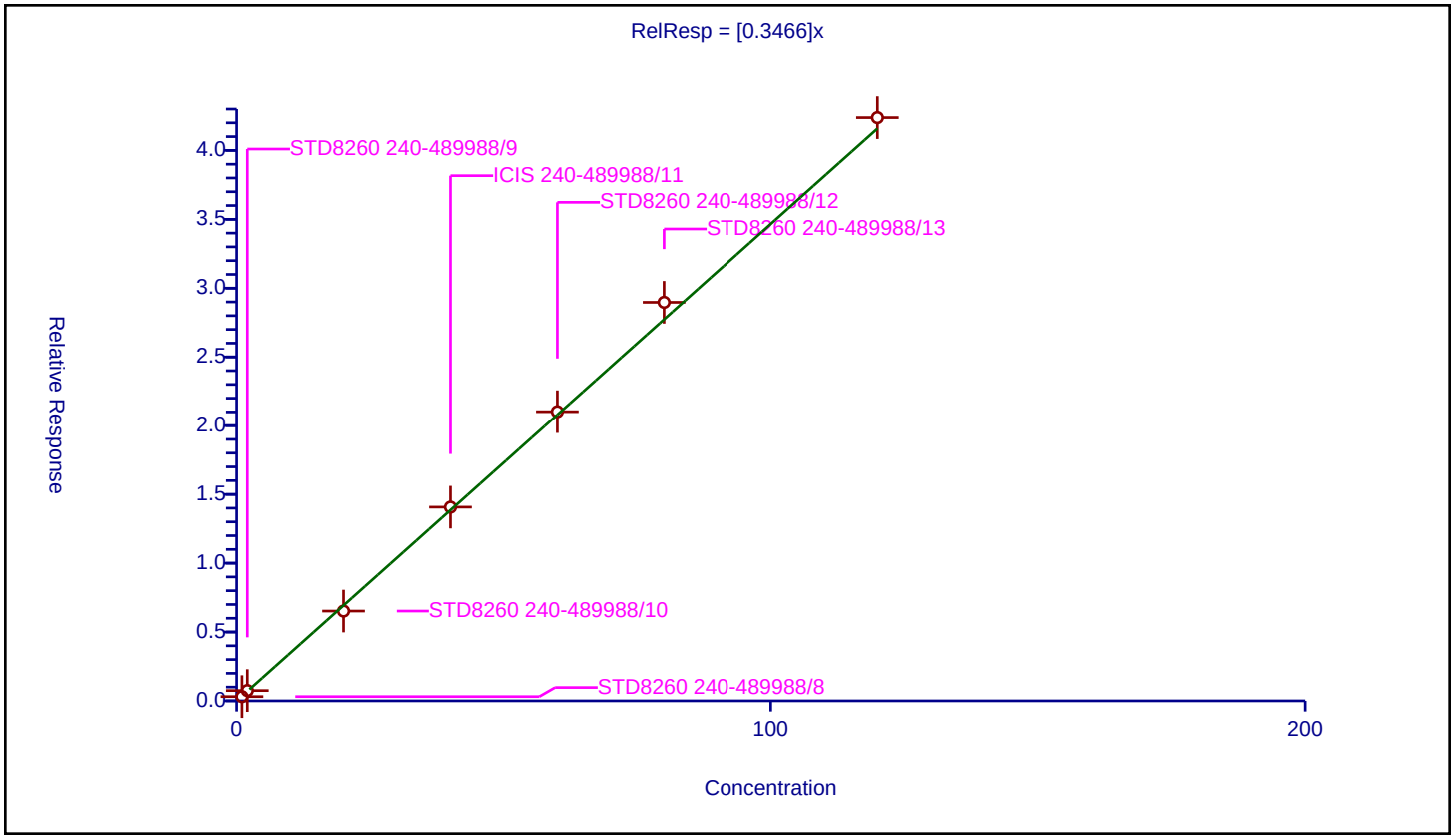
Curve Coefficients

Intercept:	0
Slope:	0.3466

Error Coefficients

Standard Error:	1160000
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 240-489988/8	1.0	0.308628	20.0	969129.0	0.308628	Y
2	STD8260 240-489988/9	2.0	0.747493	20.0	966538.0	0.373746	Y
3	STD8260 240-489988/10	20.0	6.523198	20.0	994273.0	0.32616	Y
4	ICIS 240-489988/11	40.0	14.074511	20.0	941178.0	0.351863	Y
5	STD8260 240-489988/12	60.0	21.019849	20.0	966359.0	0.350331	Y
6	STD8260 240-489988/13	80.0	28.970951	20.0	963151.0	0.362137	Y
7	STD8260 240-489988/14	120.0	42.379193	20.0	1001617.0	0.35316	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

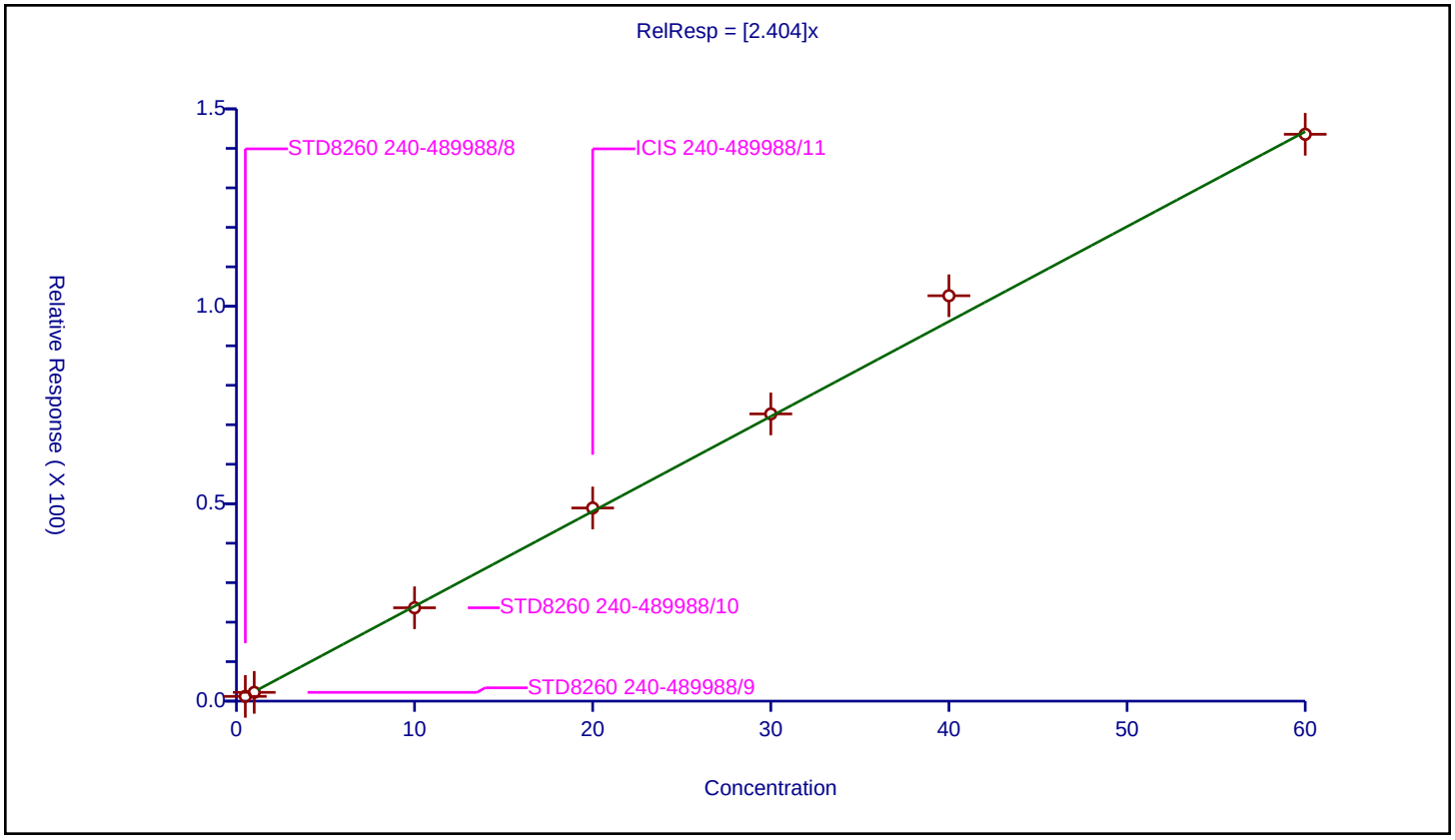
Curve Coefficients

Intercept:	0
Slope:	2.404

Error Coefficients

Standard Error:	3340000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	1.203391	20.0	787591.0	2.406782	Y
2	STD8260 240-489988/9	1.0	2.225727	20.0	795210.0	2.225727	Y
3	STD8260 240-489988/10	10.0	23.644069	20.0	812471.0	2.364407	Y
4	ICIS 240-489988/11	20.0	48.920141	20.0	801095.0	2.446007	Y
5	STD8260 240-489988/12	30.0	72.747892	20.0	805352.0	2.42493	Y
6	STD8260 240-489988/13	40.0	102.677435	20.0	802955.0	2.566936	Y
7	STD8260 240-489988/14	60.0	143.568249	20.0	841337.0	2.392804	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

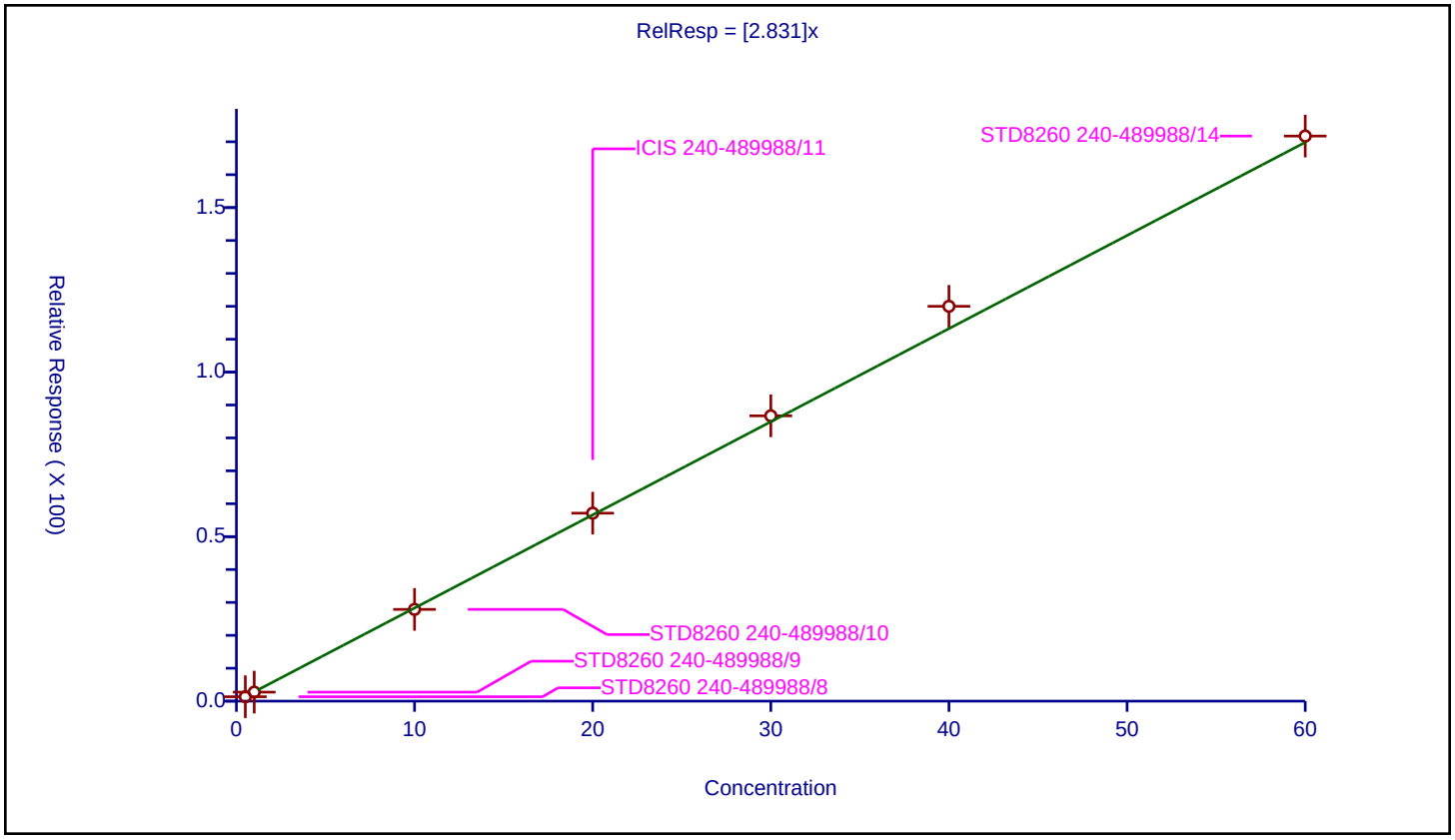
Curve Coefficients

Intercept:	0
Slope:	2.831

Error Coefficients

Standard Error:	3960000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	1.339198	20.0	787591.0	2.678395	Y
2	STD8260 240-489988/9	1.0	2.737516	20.0	795210.0	2.737516	Y
3	STD8260 240-489988/10	10.0	27.883924	20.0	812471.0	2.788392	Y
4	ICIS 240-489988/11	20.0	57.12863	20.0	801095.0	2.856432	Y
5	STD8260 240-489988/12	30.0	86.7115	20.0	805352.0	2.890383	Y
6	STD8260 240-489988/13	40.0	120.001644	20.0	802955.0	3.000041	Y
7	STD8260 240-489988/14	60.0	171.741716	20.0	841337.0	2.862362	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

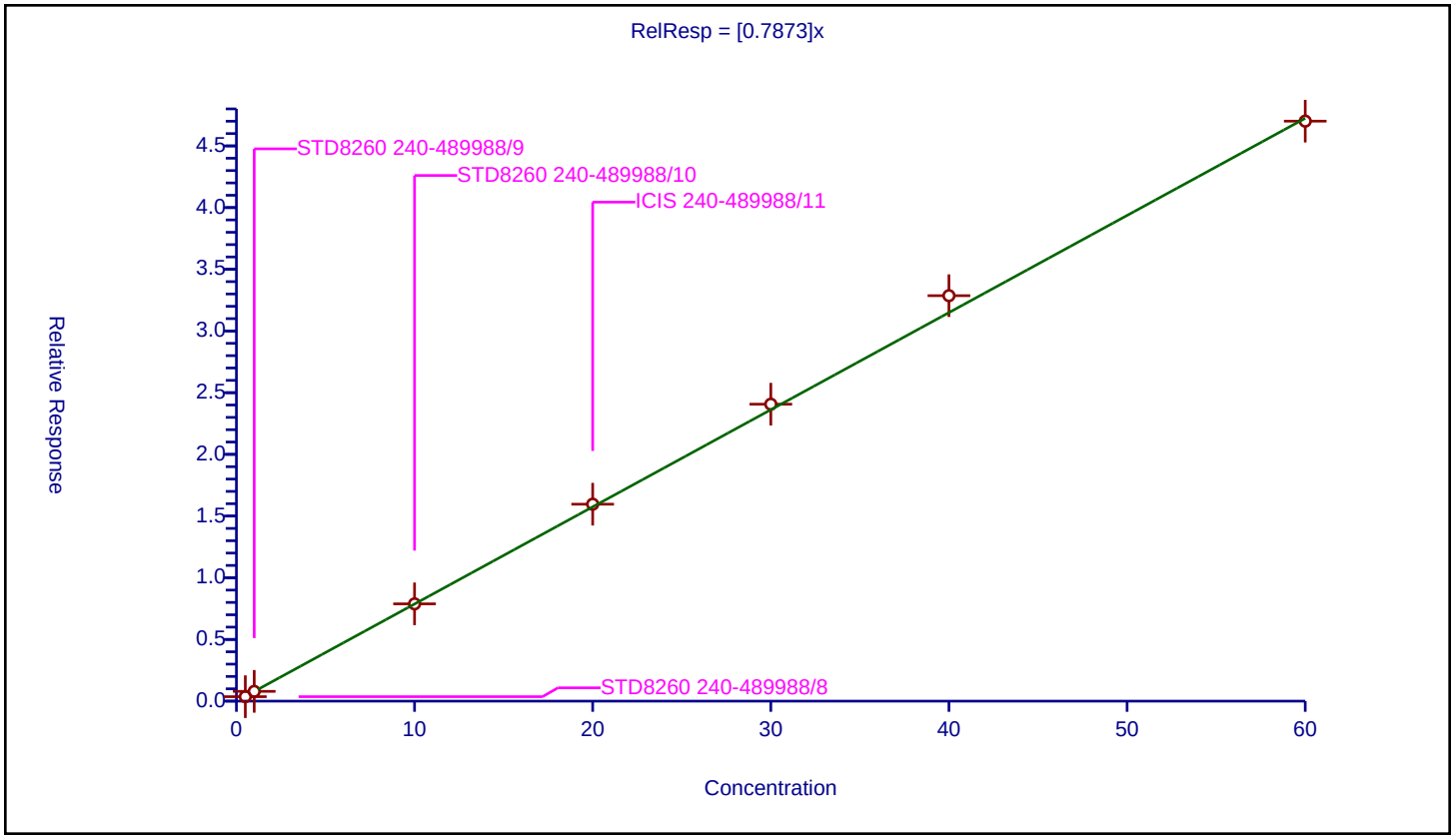
Curve Coefficients

Intercept:	0
Slope:	0.7873

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.362091	20.0	787591.0	0.724183	Y
2	STD8260 240-489988/9	1.0	0.792948	20.0	795210.0	0.792948	Y
3	STD8260 240-489988/10	10.0	7.885352	20.0	812471.0	0.788535	Y
4	ICIS 240-489988/11	20.0	15.961902	20.0	801095.0	0.798095	Y
5	STD8260 240-489988/12	30.0	24.066619	20.0	805352.0	0.802221	Y
6	STD8260 240-489988/13	40.0	32.862315	20.0	802955.0	0.821558	Y
7	STD8260 240-489988/14	60.0	47.007846	20.0	841337.0	0.783464	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

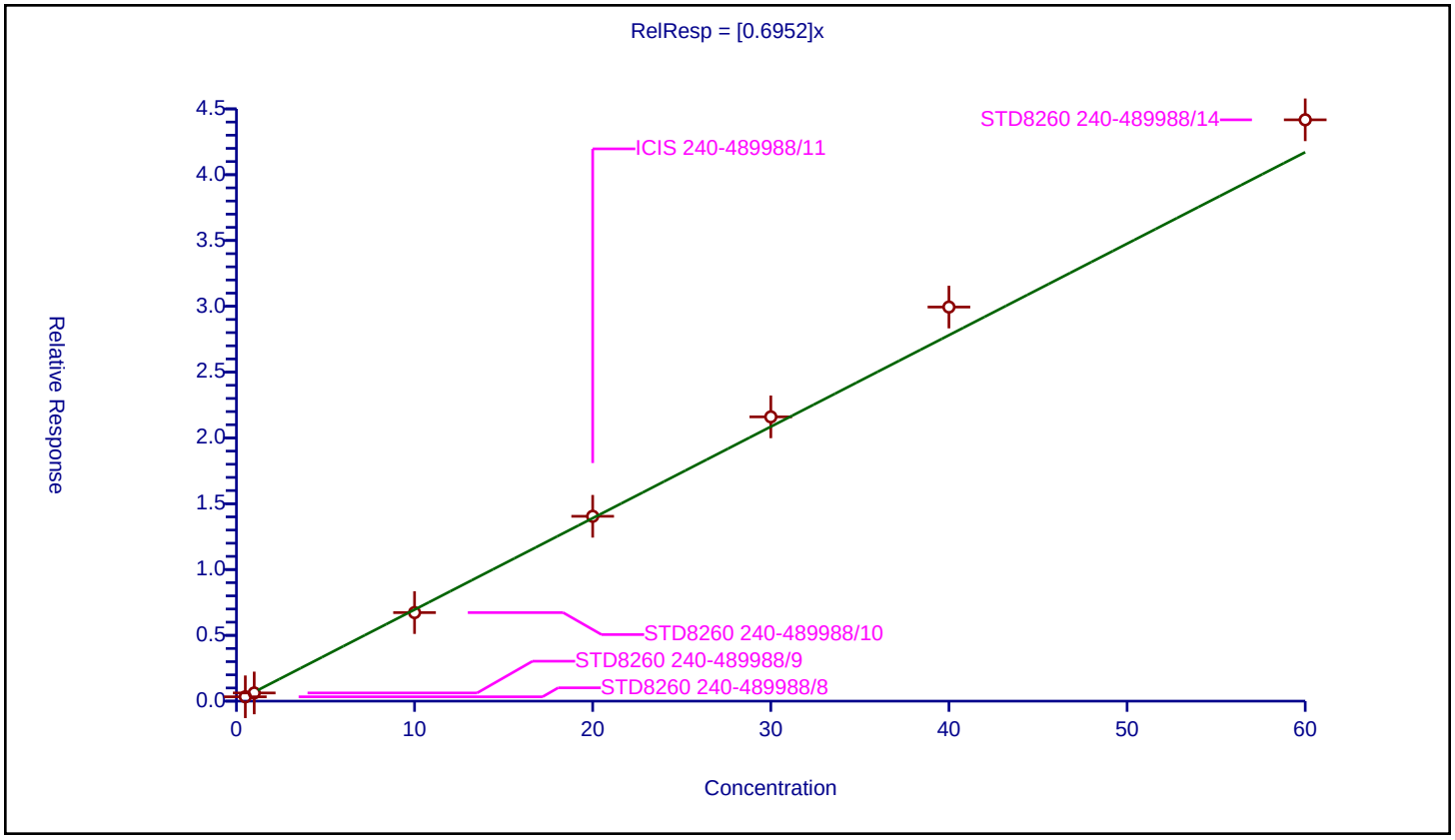
Curve Coefficients

Intercept:	0
Slope:	0.6952

Error Coefficients

Standard Error:	1000000
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 240-489988/8	0.5	0.33172	20.0	787591.0	0.663441	Y
2	STD8260 240-489988/9	1.0	0.622754	20.0	795210.0	0.622754	Y
3	STD8260 240-489988/10	10.0	6.728486	20.0	812471.0	0.672849	Y
4	ICIS 240-489988/11	20.0	14.045725	20.0	801095.0	0.702286	Y
5	STD8260 240-489988/12	30.0	21.599698	20.0	805352.0	0.71999	Y
6	STD8260 240-489988/13	40.0	29.94387	20.0	802955.0	0.748597	Y
7	STD8260 240-489988/14	60.0	44.170196	20.0	841337.0	0.73617	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

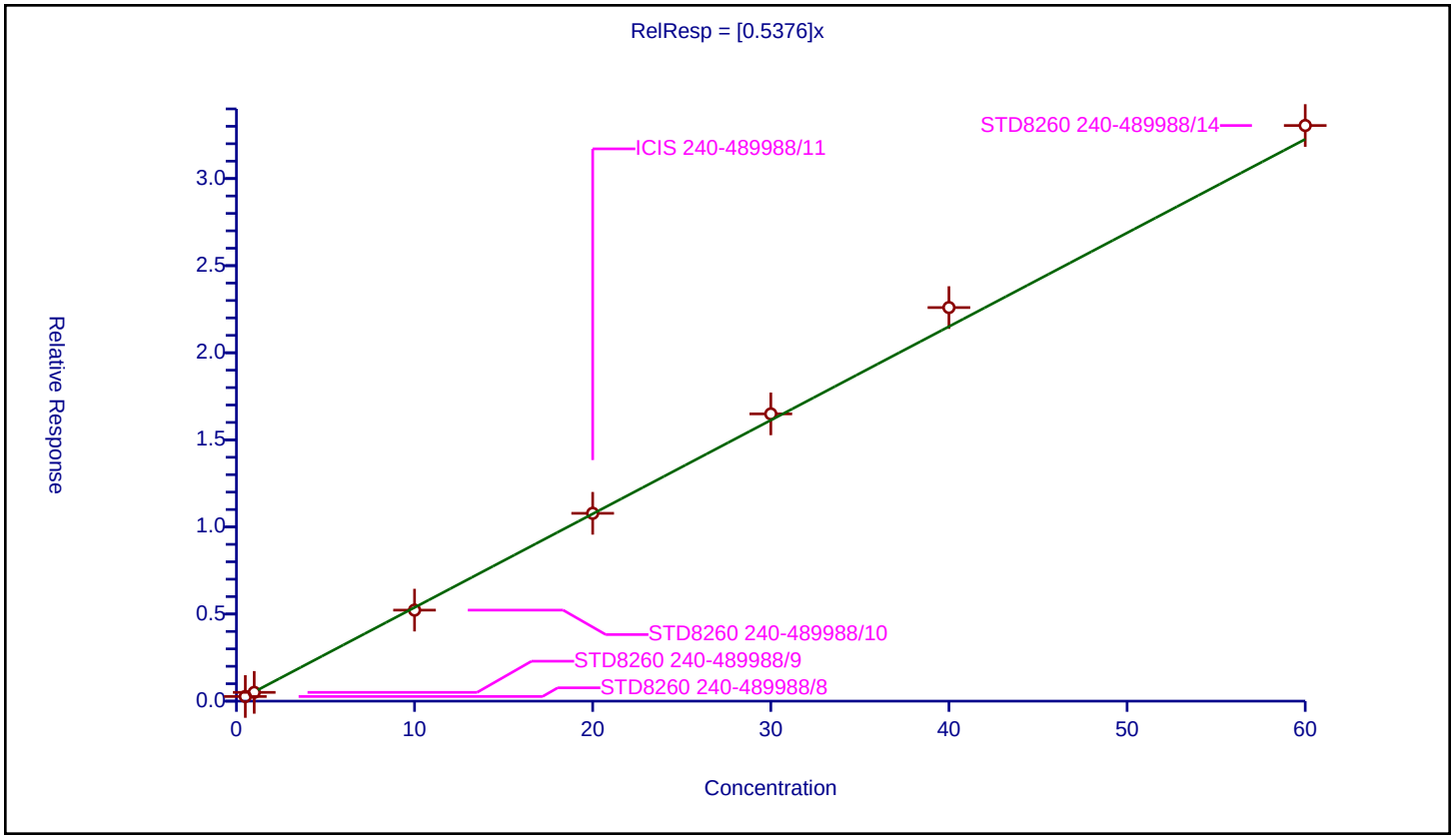
Curve Coefficients

Intercept:	0
Slope:	0.5376

Error Coefficients

Standard Error:	756000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.266052	20.0	787591.0	0.532104	Y
2	STD8260 240-489988/9	1.0	0.504219	20.0	795210.0	0.504219	Y
3	STD8260 240-489988/10	10.0	5.22522	20.0	812471.0	0.522522	Y
4	ICIS 240-489988/11	20.0	10.783465	20.0	801095.0	0.539173	Y
5	STD8260 240-489988/12	30.0	16.491273	20.0	805352.0	0.549709	Y
6	STD8260 240-489988/13	40.0	22.595338	20.0	802955.0	0.564883	Y
7	STD8260 240-489988/14	60.0	33.045427	20.0	841337.0	0.550757	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

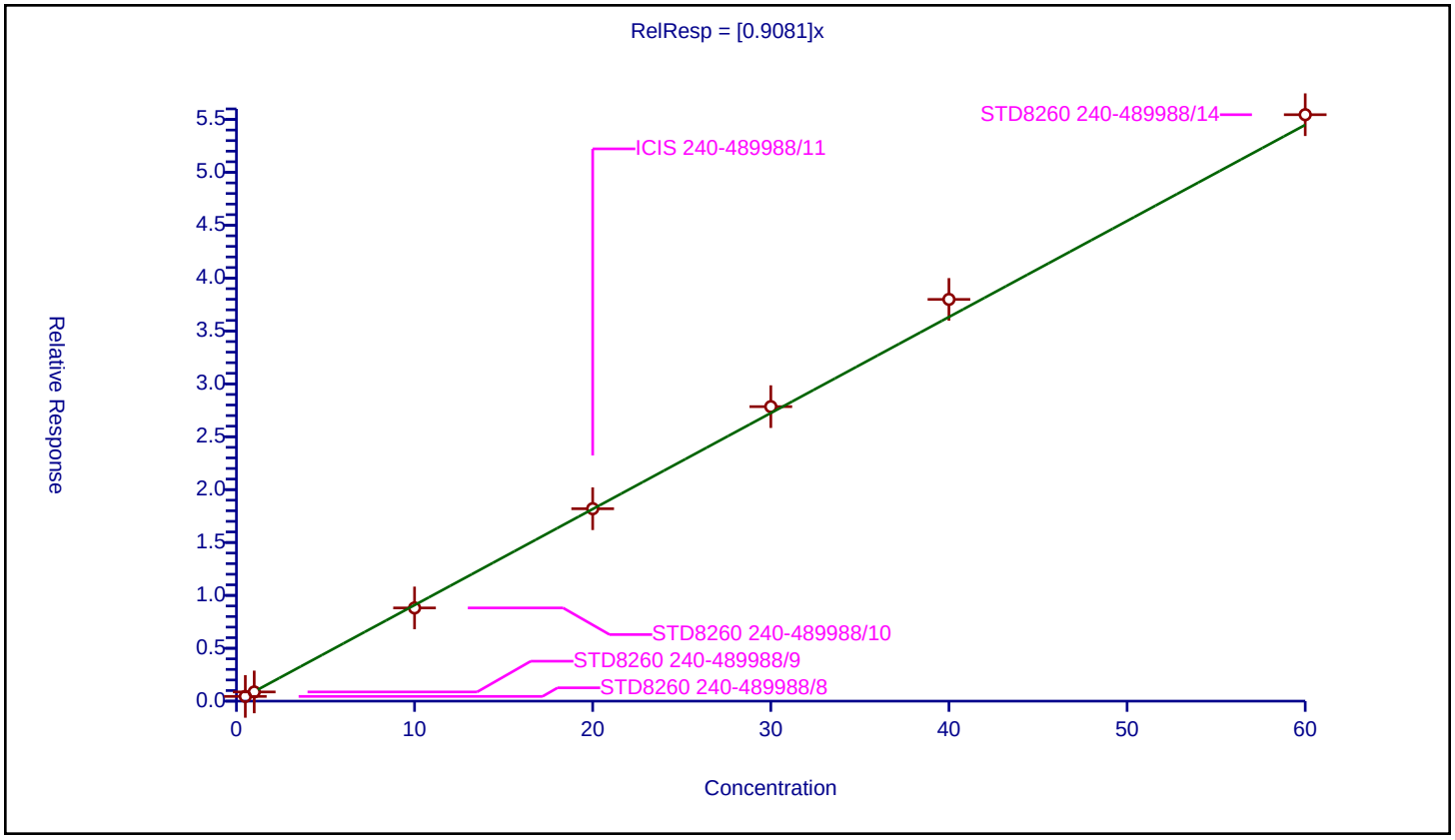
Curve Coefficients

Intercept:	0
Slope:	0.9081

Error Coefficients

Standard Error:	1270000
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 240-489988/8	0.5	0.446679	20.0	787591.0	0.893357	Y
2	STD8260 240-489988/9	1.0	0.870311	20.0	795210.0	0.870311	Y
3	STD8260 240-489988/10	10.0	8.812007	20.0	812471.0	0.881201	Y
4	ICIS 240-489988/11	20.0	18.193747	20.0	801095.0	0.909687	Y
5	STD8260 240-489988/12	30.0	27.847947	20.0	805352.0	0.928265	Y
6	STD8260 240-489988/13	40.0	37.986961	20.0	802955.0	0.949674	Y
7	STD8260 240-489988/14	60.0	55.451216	20.0	841337.0	0.924187	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

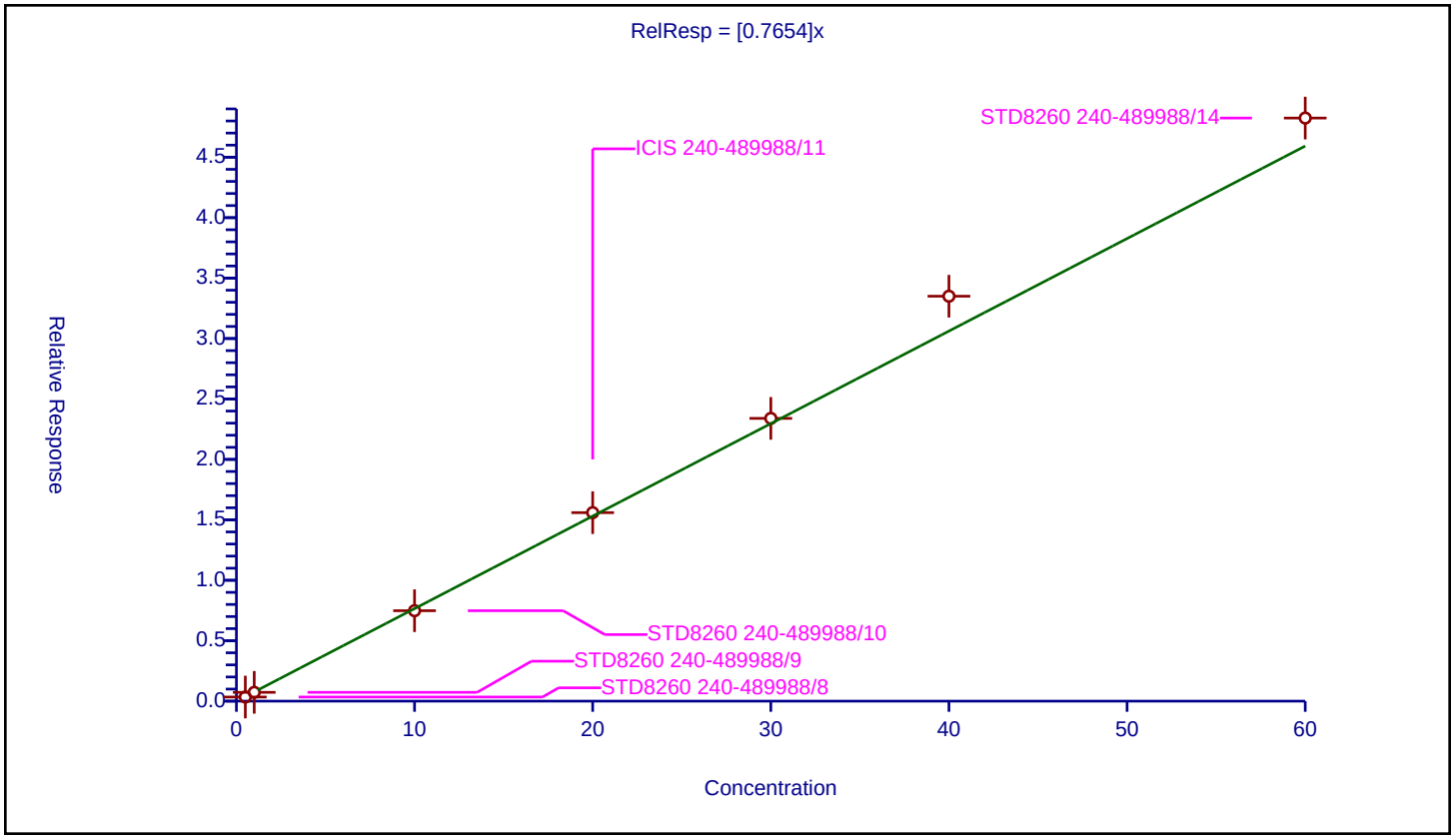
Curve Coefficients

Intercept:	0
Slope:	0.7654

Error Coefficients

Standard Error:	1100000
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 240-489988/8	0.5	0.34071	20.0	787591.0	0.68142	Y
2	STD8260 240-489988/9	1.0	0.727229	20.0	795210.0	0.727229	Y
3	STD8260 240-489988/10	10.0	7.48263	20.0	812471.0	0.748263	Y
4	ICIS 240-489988/11	20.0	15.595129	20.0	801095.0	0.779756	Y
5	STD8260 240-489988/12	30.0	23.393746	20.0	805352.0	0.779792	Y
6	STD8260 240-489988/13	40.0	33.501952	20.0	802955.0	0.837549	Y
7	STD8260 240-489988/14	60.0	48.242191	20.0	841337.0	0.804037	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

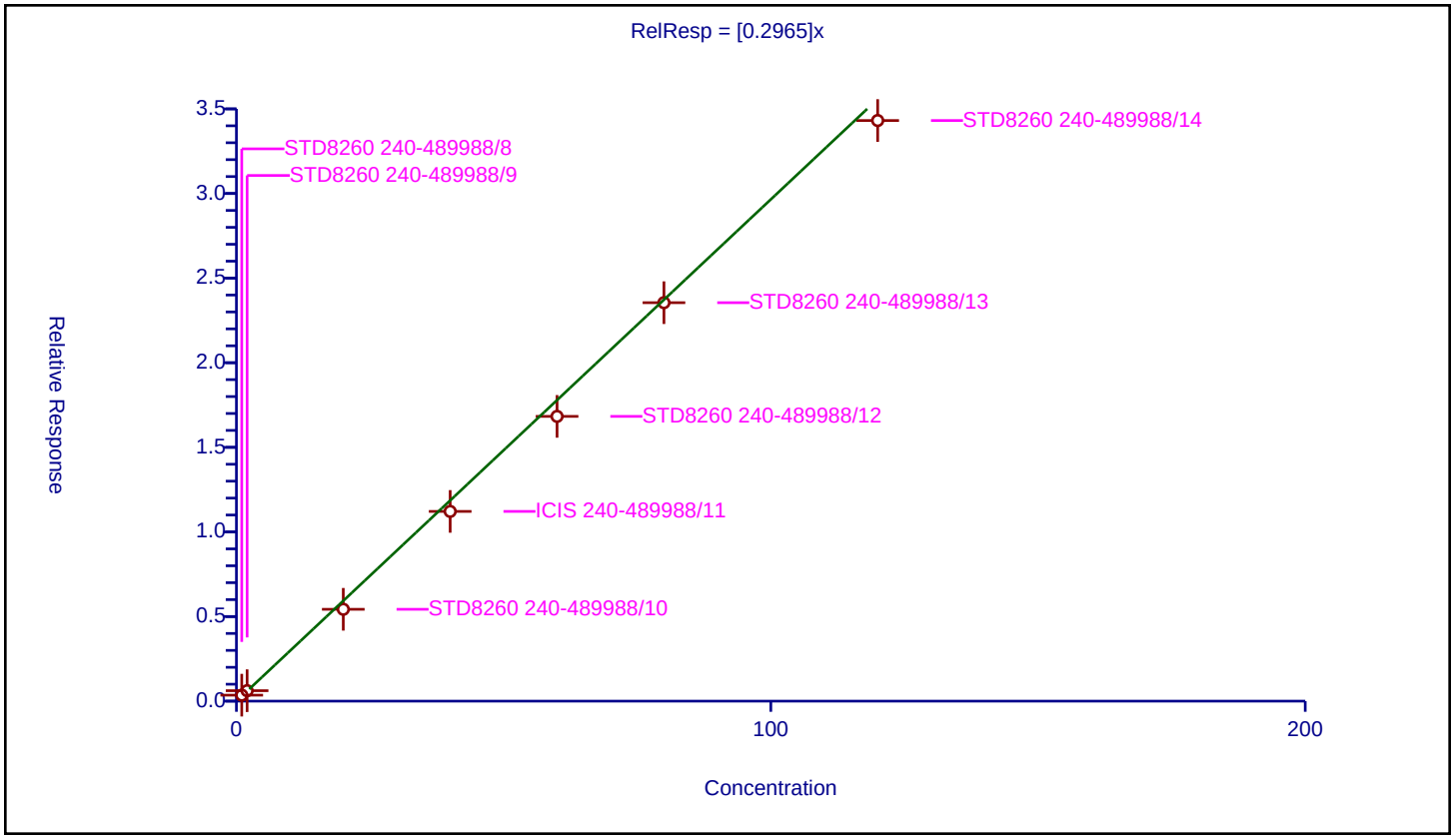
Curve Coefficients

Intercept:	0
Slope:	0.2965

Error Coefficients

Standard Error:	784000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	1.0	0.354118	20.0	787591.0	0.354118	Y
2	STD8260 240-489988/9	2.0	0.617925	20.0	795210.0	0.308962	Y
3	STD8260 240-489988/10	20.0	5.428378	20.0	812471.0	0.271419	Y
4	ICIS 240-489988/11	40.0	11.212253	20.0	801095.0	0.280306	Y
5	STD8260 240-489988/12	60.0	16.829014	20.0	805352.0	0.280484	Y
6	STD8260 240-489988/13	80.0	23.547671	20.0	802955.0	0.294346	Y
7	STD8260 240-489988/14	120.0	34.312529	20.0	841337.0	0.285938	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

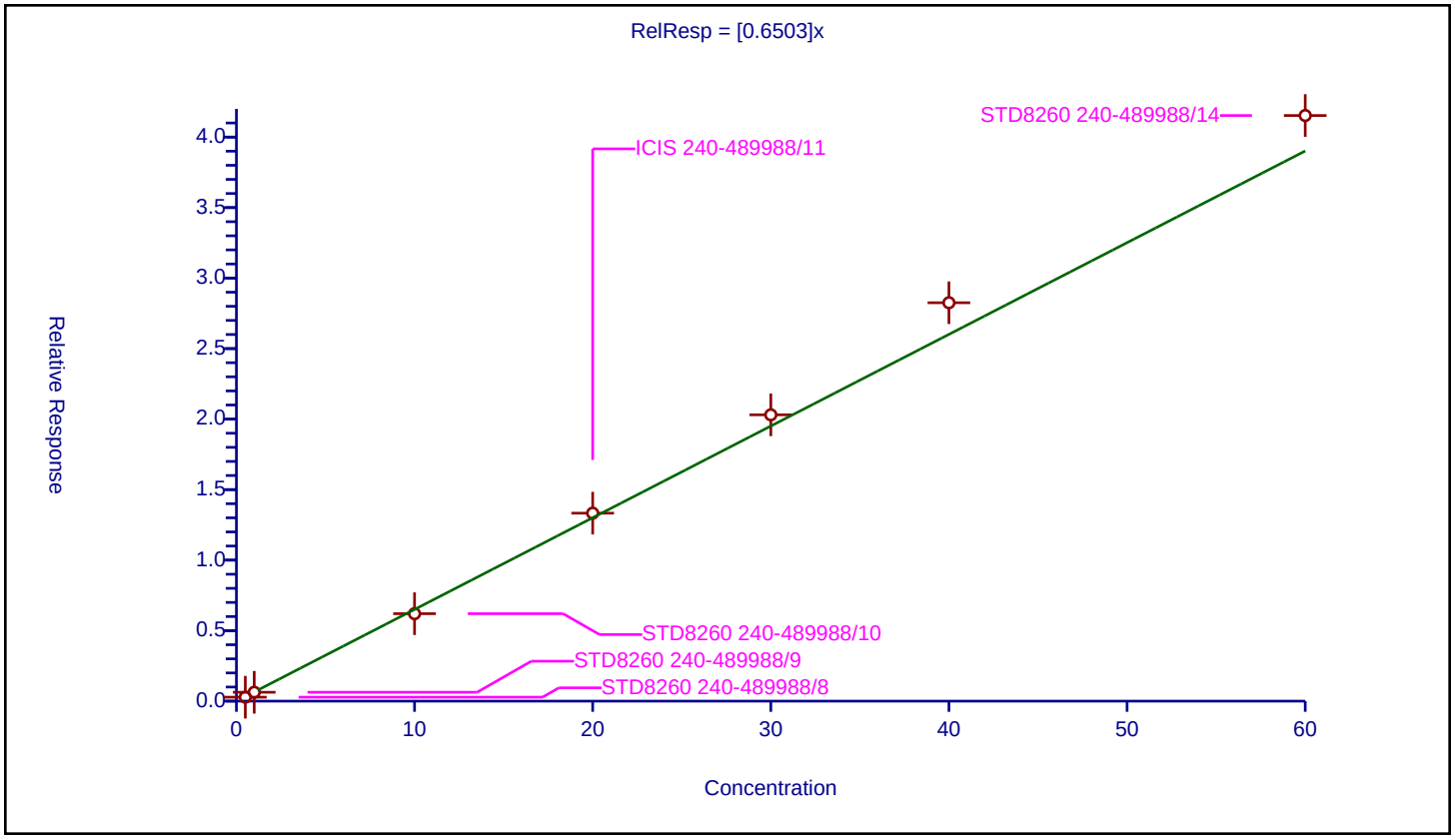
Curve Coefficients

Intercept:	0
Slope:	0.6503

Error Coefficients

Standard Error:	945000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.279917	20.0	787591.0	0.559834	Y
2	STD8260 240-489988/9	1.0	0.630073	20.0	795210.0	0.630073	Y
3	STD8260 240-489988/10	10.0	6.201477	20.0	812471.0	0.620148	Y
4	ICIS 240-489988/11	20.0	13.330878	20.0	801095.0	0.666544	Y
5	STD8260 240-489988/12	30.0	20.305208	20.0	805352.0	0.67684	Y
6	STD8260 240-489988/13	40.0	28.252941	20.0	802955.0	0.706324	Y
7	STD8260 240-489988/14	60.0	41.529803	20.0	841337.0	0.692163	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

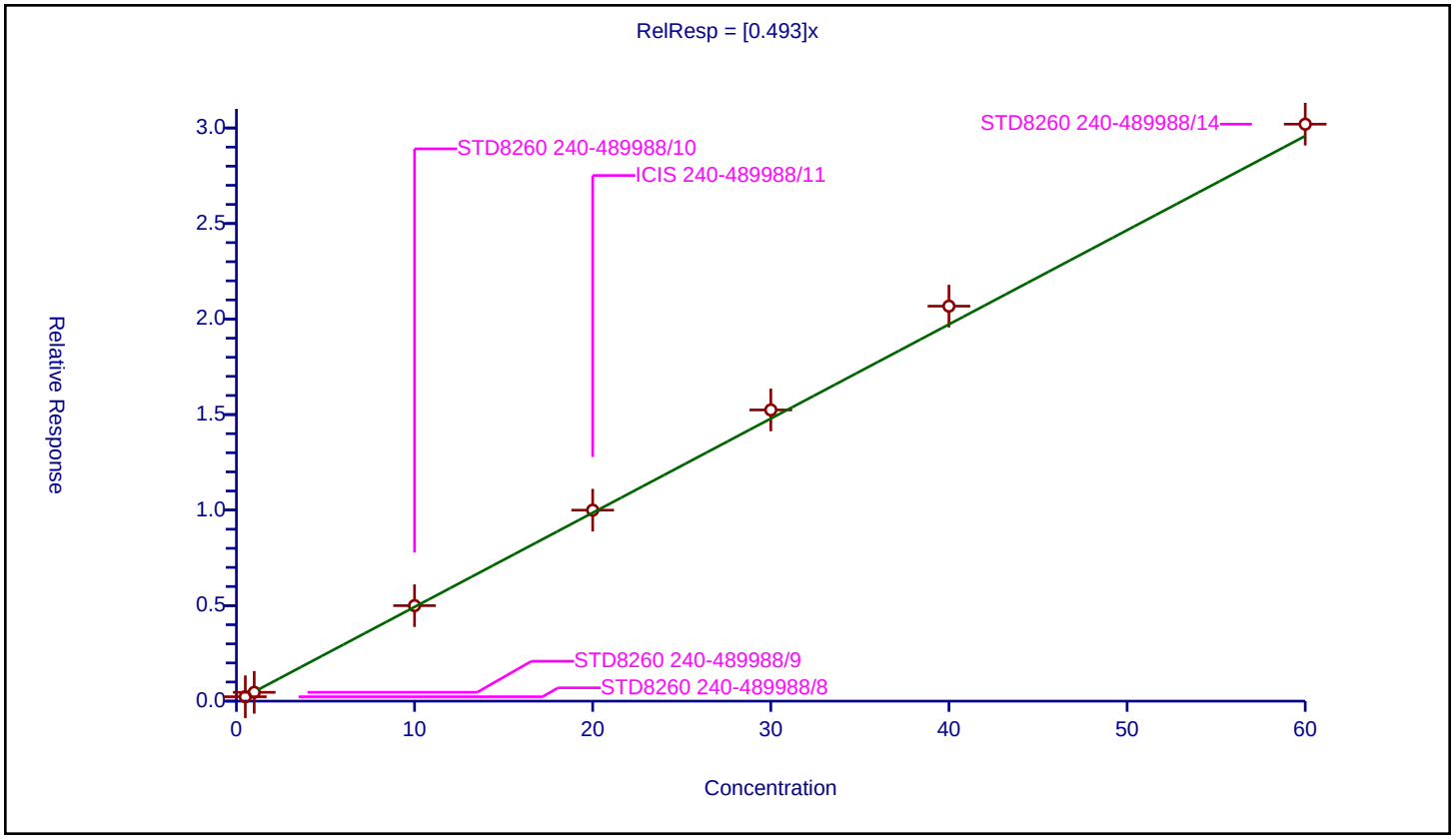
Curve Coefficients

Intercept:	0
Slope:	0.493

Error Coefficients

Standard Error:	693000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.2305	20.0	787591.0	0.461001	Y
2	STD8260 240-489988/9	1.0	0.462218	20.0	795210.0	0.462218	Y
3	STD8260 240-489988/10	10.0	4.998948	20.0	812471.0	0.499895	Y
4	ICIS 240-489988/11	20.0	9.996742	20.0	801095.0	0.499837	Y
5	STD8260 240-489988/12	30.0	15.24213	20.0	805352.0	0.508071	Y
6	STD8260 240-489988/13	40.0	20.67533	20.0	802955.0	0.516883	Y
7	STD8260 240-489988/14	60.0	30.1991	20.0	841337.0	0.503318	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

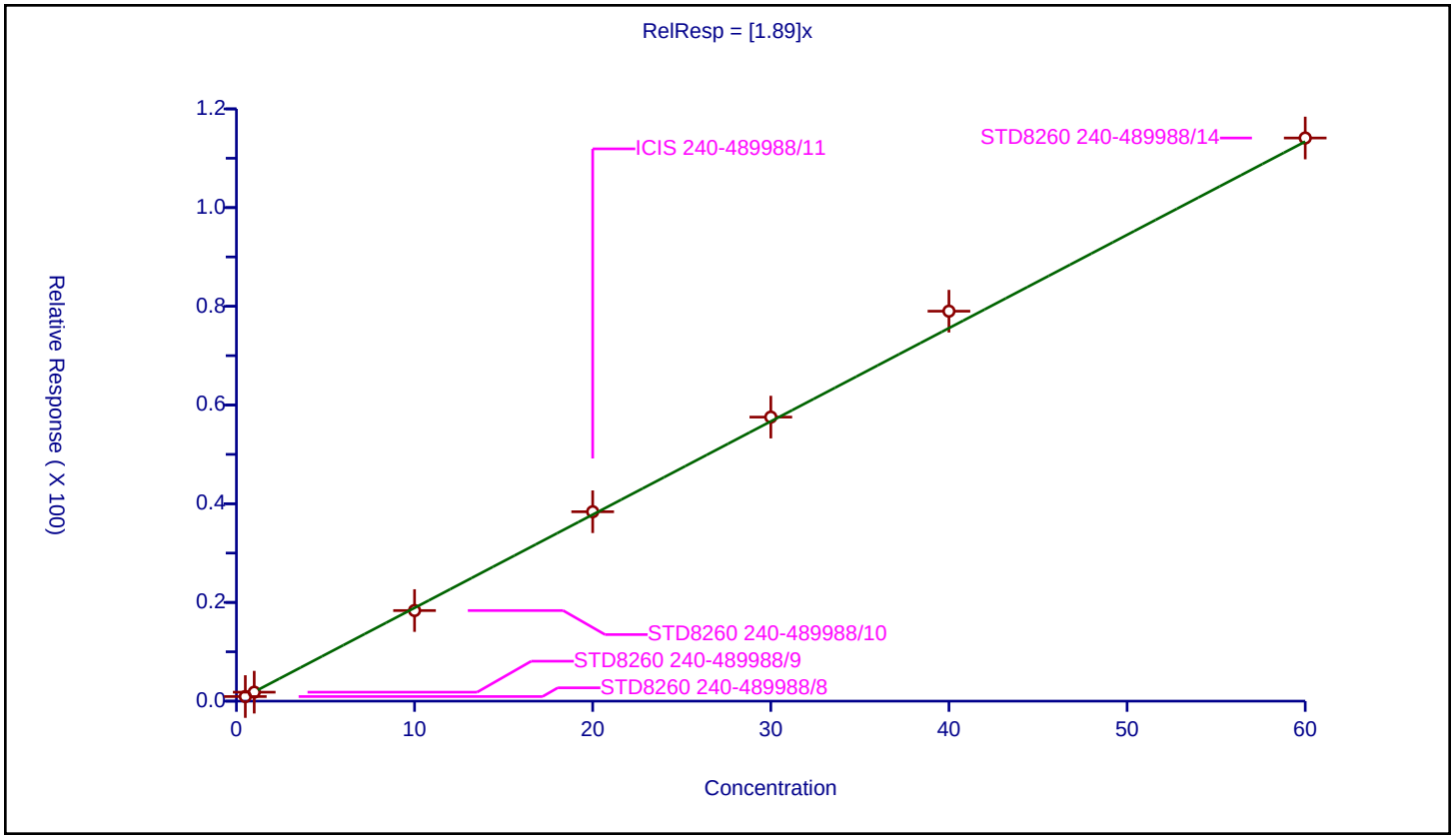
Curve Coefficients

Intercept:	0
Slope:	1.89

Error Coefficients

Standard Error:	2630000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.931575	20.0	787591.0	1.86315	Y
2	STD8260 240-489988/9	1.0	1.813835	20.0	795210.0	1.813835	Y
3	STD8260 240-489988/10	10.0	18.356667	20.0	812471.0	1.835667	Y
4	ICIS 240-489988/11	20.0	38.375773	20.0	801095.0	1.918789	Y
5	STD8260 240-489988/12	30.0	57.551183	20.0	805352.0	1.918373	Y
6	STD8260 240-489988/13	40.0	79.013818	20.0	802955.0	1.975345	Y
7	STD8260 240-489988/14	60.0	114.099416	20.0	841337.0	1.901657	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

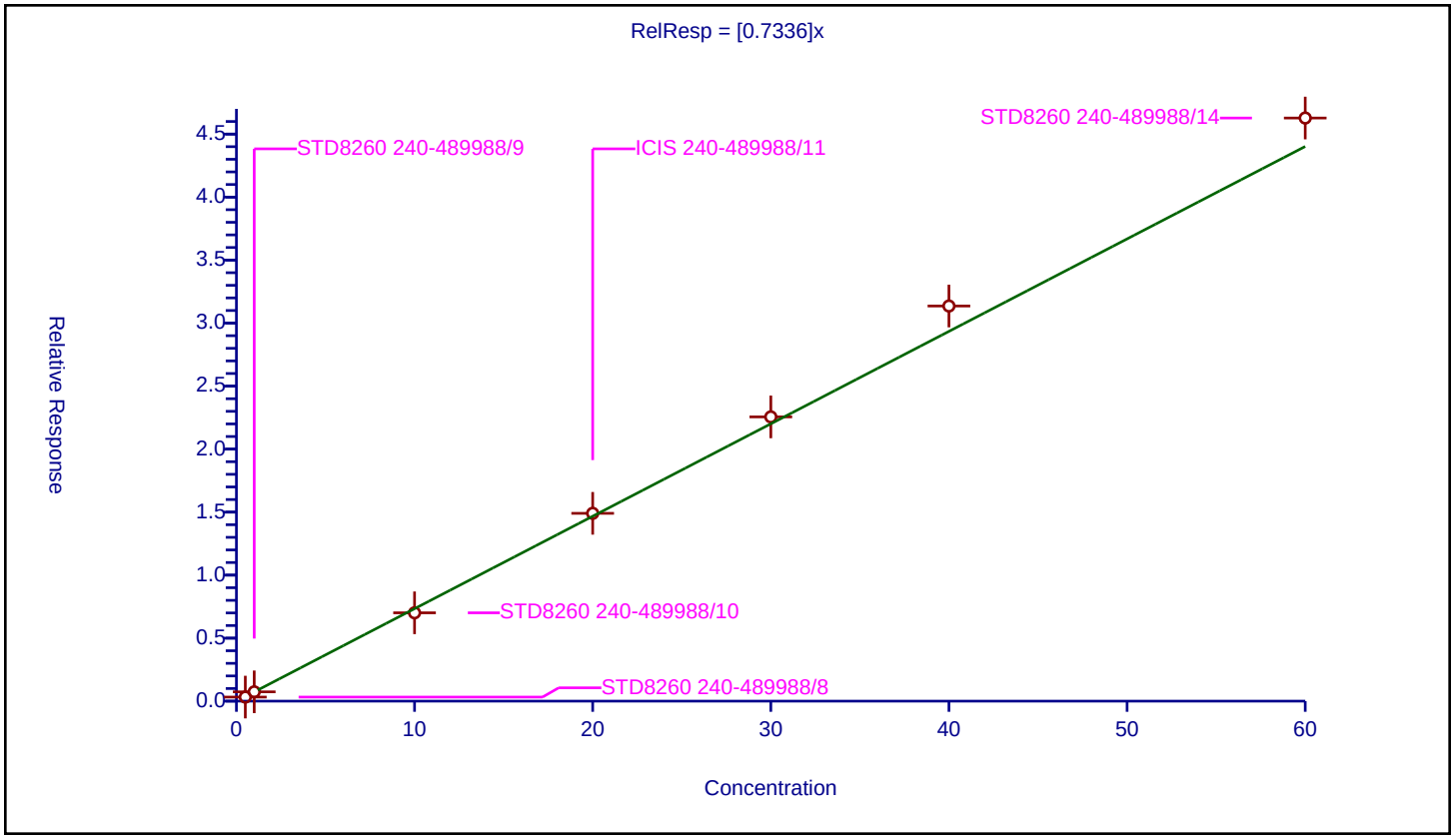
Curve Coefficients

Intercept:	0
Slope:	0.7336

Error Coefficients

Standard Error:	1050000
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 240-489988/8	0.5	0.321436	20.0	787591.0	0.642872	Y
2	STD8260 240-489988/9	1.0	0.739302	20.0	795210.0	0.739302	Y
3	STD8260 240-489988/10	10.0	7.009186	20.0	812471.0	0.700919	Y
4	ICIS 240-489988/11	20.0	14.903451	20.0	801095.0	0.745173	Y
5	STD8260 240-489988/12	30.0	22.558086	20.0	805352.0	0.751936	Y
6	STD8260 240-489988/13	40.0	31.356502	20.0	802955.0	0.783913	Y
7	STD8260 240-489988/14	60.0	46.275892	20.0	841337.0	0.771265	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

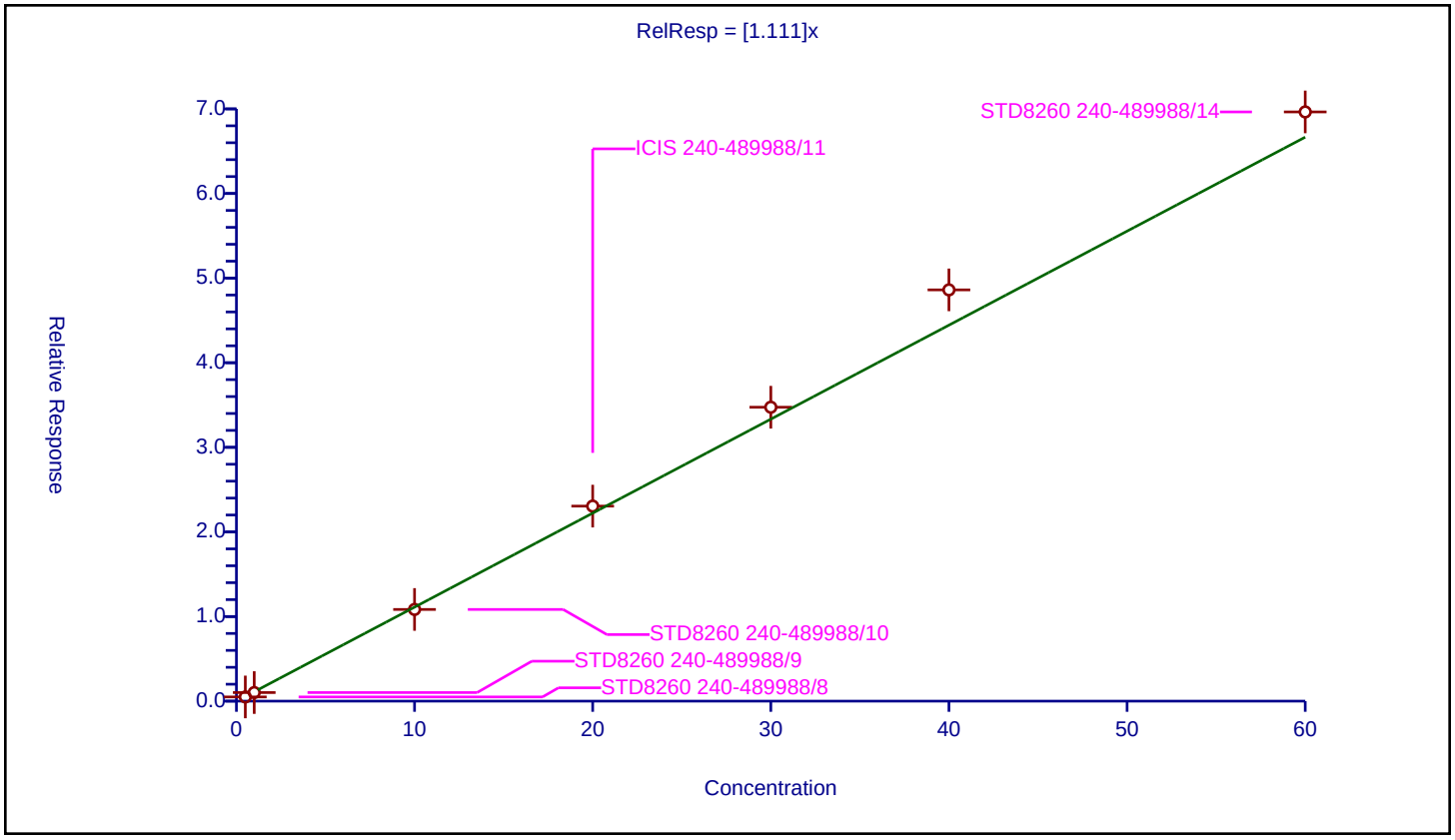
Curve Coefficients

Intercept:	0
Slope:	1.111

Error Coefficients

Standard Error:	1600000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.495816	20.0	787591.0	0.991631	Y
2	STD8260 240-489988/9	1.0	1.015178	20.0	795210.0	1.015178	Y
3	STD8260 240-489988/10	10.0	10.836522	20.0	812471.0	1.083652	Y
4	ICIS 240-489988/11	20.0	23.051948	20.0	801095.0	1.152597	Y
5	STD8260 240-489988/12	30.0	34.737978	20.0	805352.0	1.157933	Y
6	STD8260 240-489988/13	40.0	48.607954	20.0	802955.0	1.215199	Y
7	STD8260 240-489988/14	60.0	69.641036	20.0	841337.0	1.160684	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

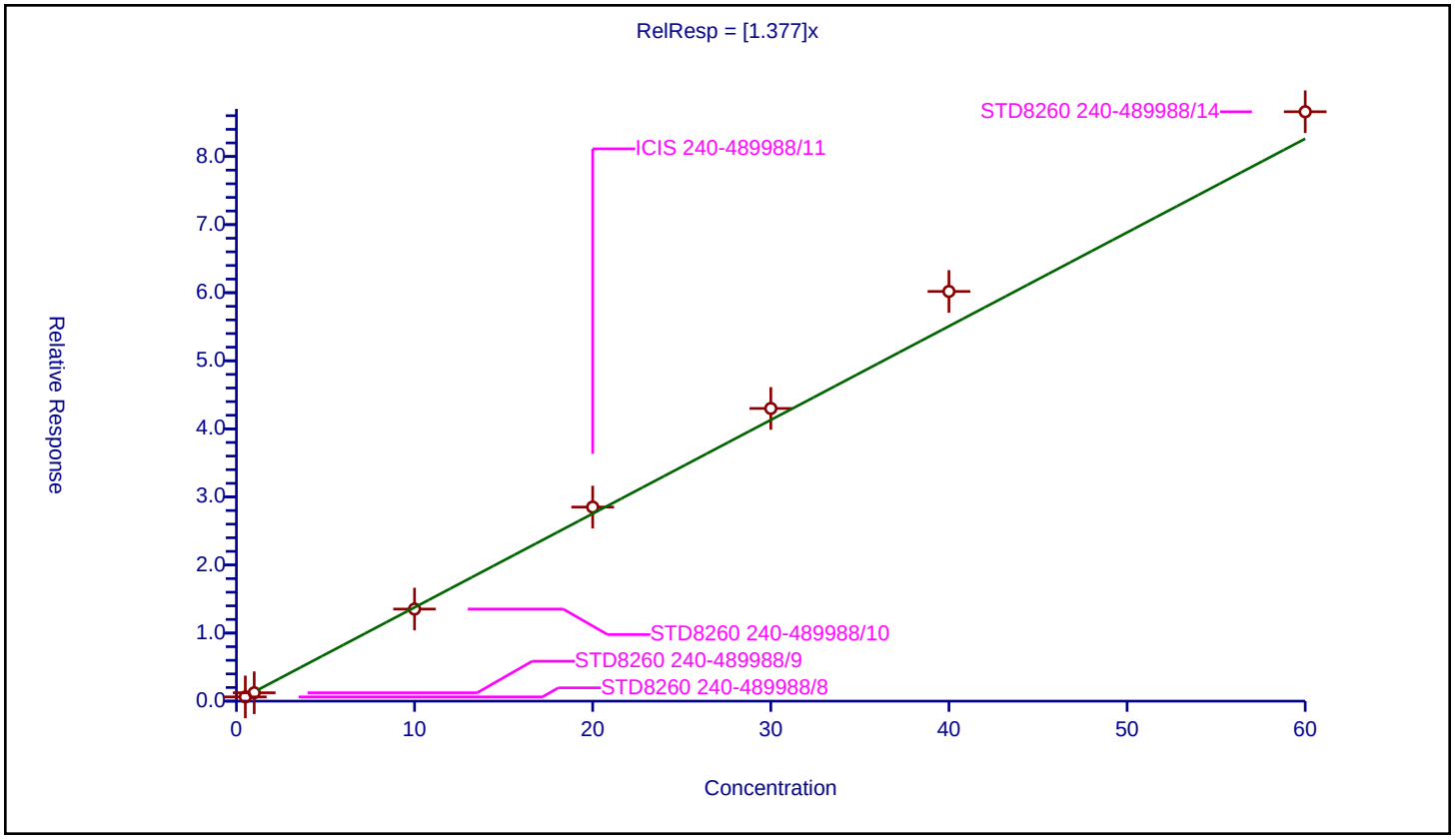
Curve Coefficients

Intercept:	0
Slope:	1.377

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.625553	20.0	787591.0	1.251106	Y
2	STD8260 240-489988/9	1.0	1.228657	20.0	795210.0	1.228657	Y
3	STD8260 240-489988/10	10.0	13.528606	20.0	812471.0	1.352861	Y
4	ICIS 240-489988/11	20.0	28.507605	20.0	801095.0	1.42538	Y
5	STD8260 240-489988/12	30.0	42.995088	20.0	805352.0	1.43317	Y
6	STD8260 240-489988/13	40.0	60.18285	20.0	802955.0	1.504571	Y
7	STD8260 240-489988/14	60.0	86.580621	20.0	841337.0	1.44301	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

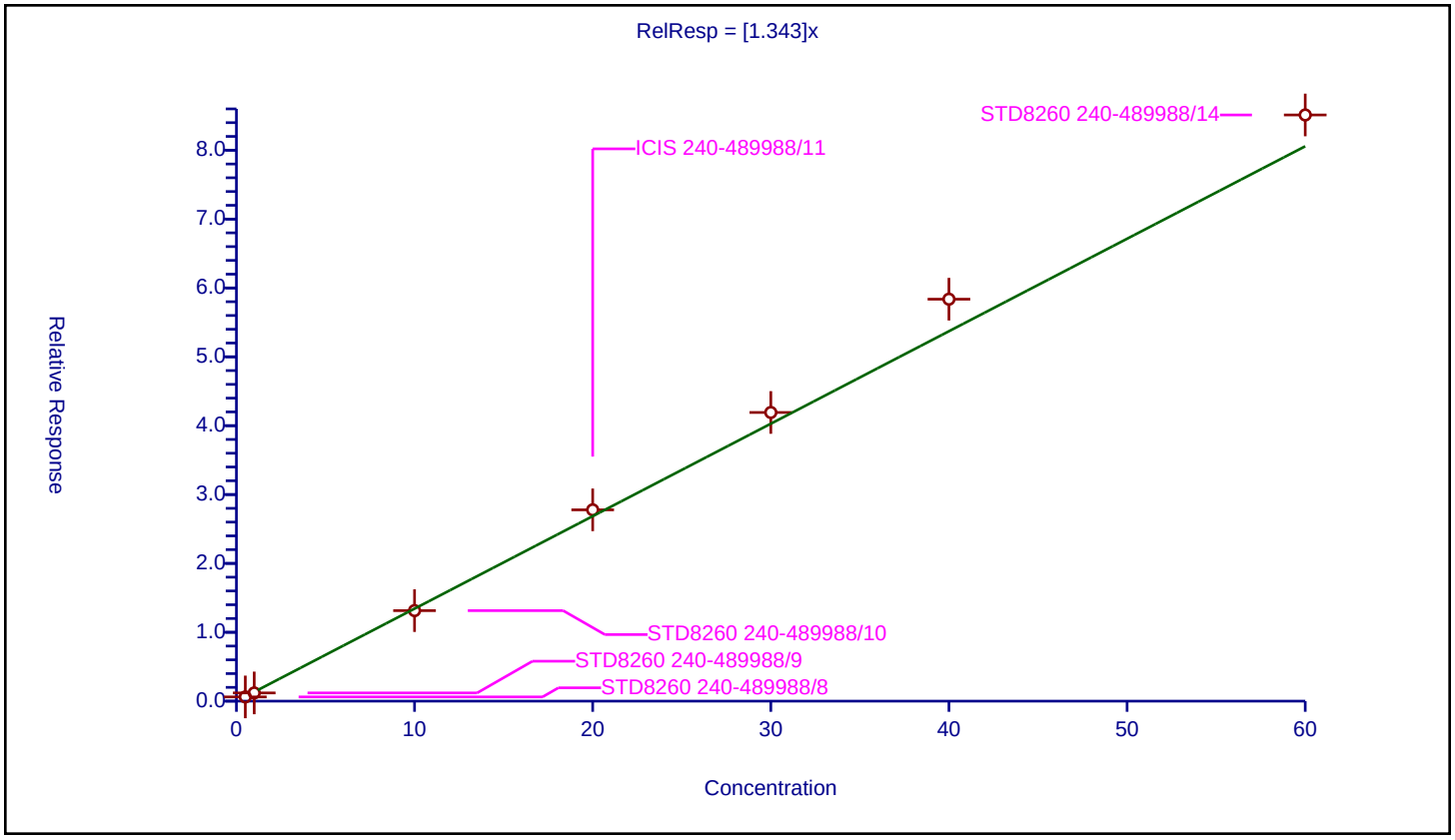
Curve Coefficients

Intercept:	0
Slope:	1.343

Error Coefficients

Standard Error:	1940000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.613288	20.0	787591.0	1.226576	Y
2	STD8260 240-489988/9	1.0	1.194728	20.0	795210.0	1.194728	Y
3	STD8260 240-489988/10	10.0	13.144715	20.0	812471.0	1.314472	Y
4	ICIS 240-489988/11	20.0	27.780176	20.0	801095.0	1.389009	Y
5	STD8260 240-489988/12	30.0	41.91782	20.0	805352.0	1.397261	Y
6	STD8260 240-489988/13	40.0	58.367281	20.0	802955.0	1.459182	Y
7	STD8260 240-489988/14	60.0	85.117997	20.0	841337.0	1.418633	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

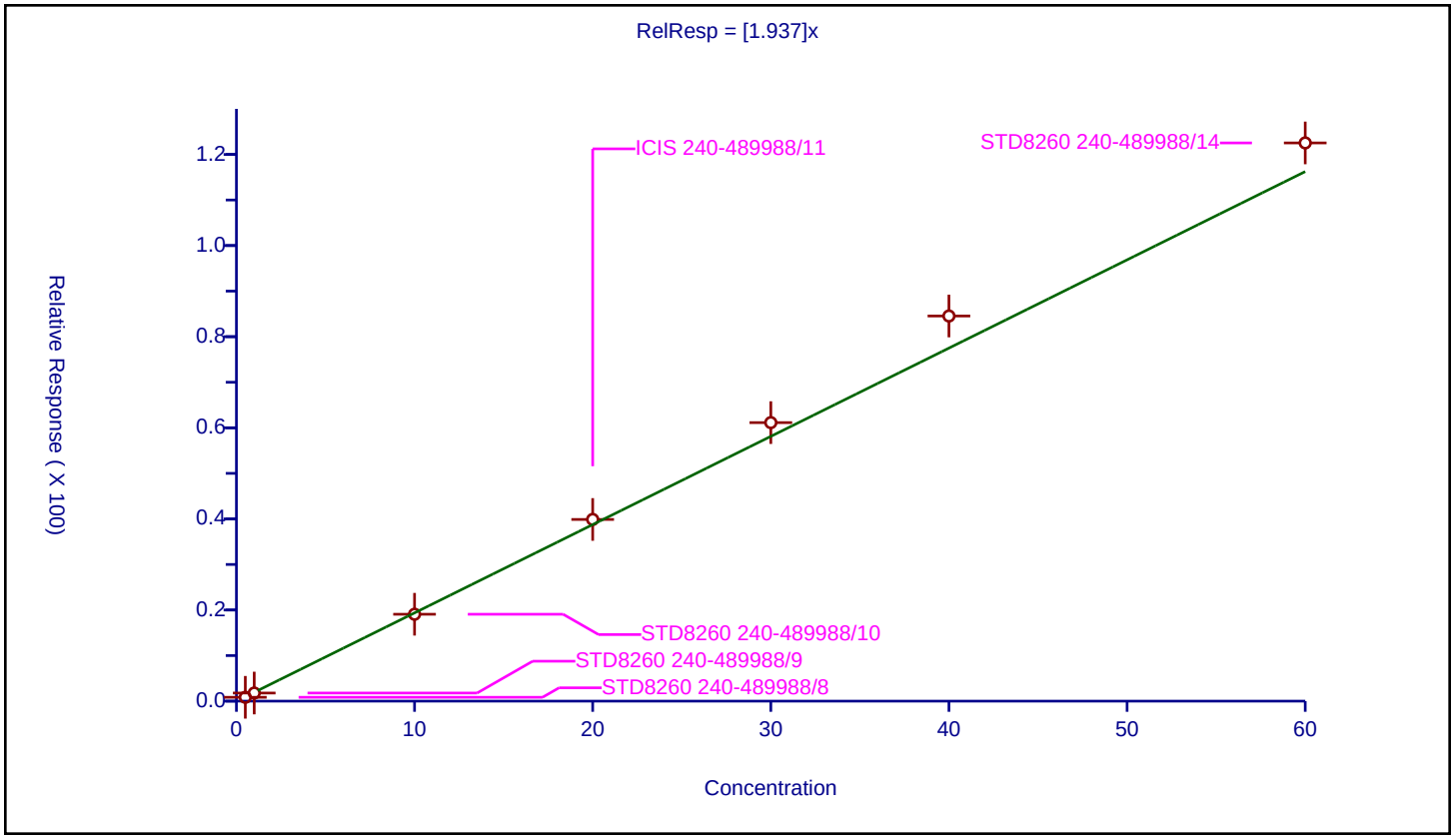
Curve Coefficients

Intercept:	0
Slope:	1.937

Error Coefficients

Standard Error:	2810000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.843483	20.0	787591.0	1.686967	Y
2	STD8260 240-489988/9	1.0	1.779253	20.0	795210.0	1.779253	Y
3	STD8260 240-489988/10	10.0	19.074281	20.0	812471.0	1.907428	Y
4	ICIS 240-489988/11	20.0	39.881113	20.0	801095.0	1.994056	Y
5	STD8260 240-489988/12	30.0	61.136547	20.0	805352.0	2.037885	Y
6	STD8260 240-489988/13	40.0	84.538934	20.0	802955.0	2.113473	Y
7	STD8260 240-489988/14	60.0	122.527334	20.0	841337.0	2.042122	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

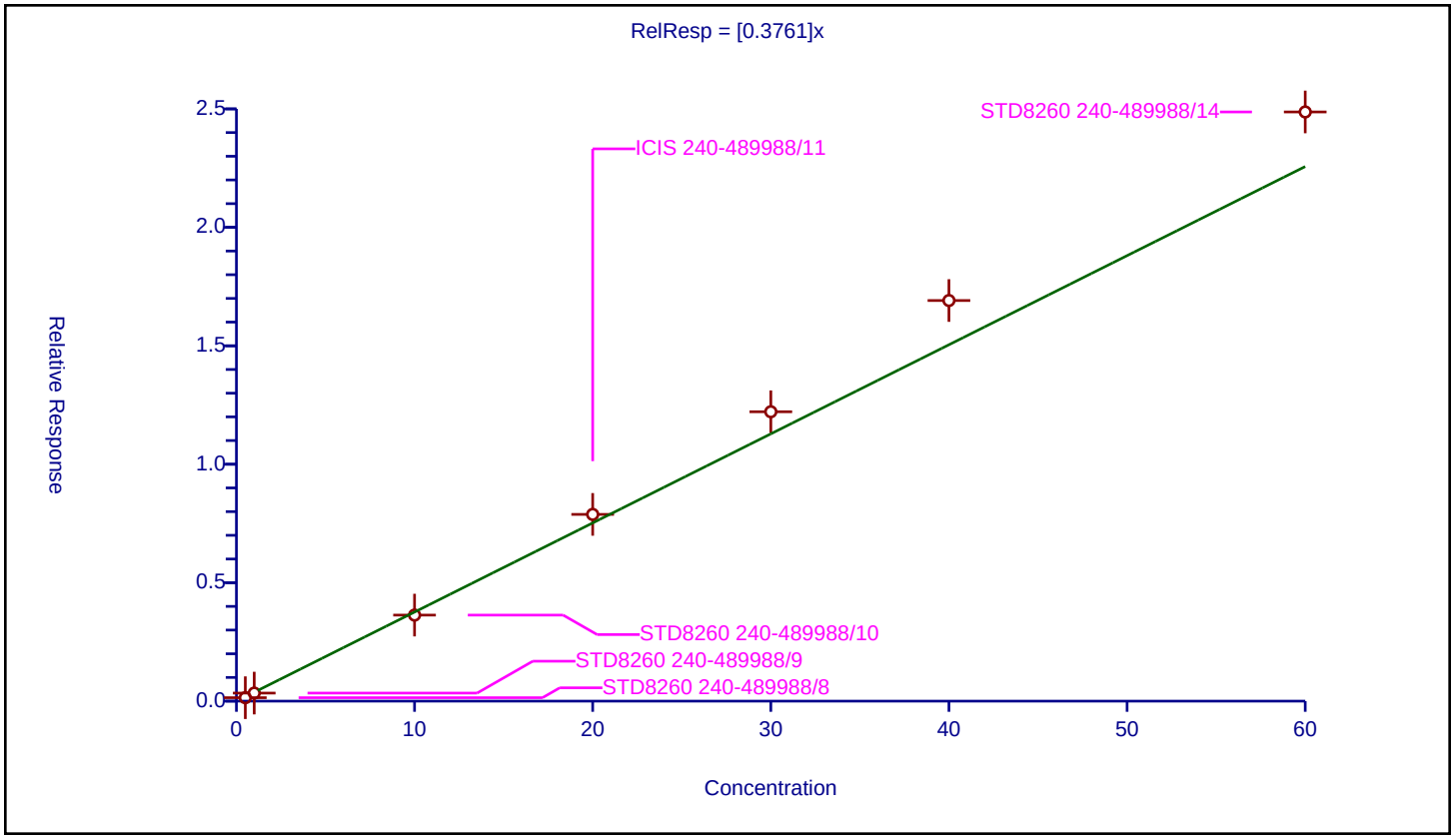
Curve Coefficients

Intercept:	0
Slope:	0.3761

Error Coefficients

Standard Error:	566000
Relative Standard Error:	12.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.145532	20.0	787591.0	0.291065	Y
2	STD8260 240-489988/9	1.0	0.33981	20.0	795210.0	0.33981	Y
3	STD8260 240-489988/10	10.0	3.6324	20.0	812471.0	0.36324	Y
4	ICIS 240-489988/11	20.0	7.882361	20.0	801095.0	0.394118	Y
5	STD8260 240-489988/12	30.0	12.215901	20.0	805352.0	0.407197	Y
6	STD8260 240-489988/13	40.0	16.910263	20.0	802955.0	0.422757	Y
7	STD8260 240-489988/14	60.0	24.870343	20.0	841337.0	0.414506	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

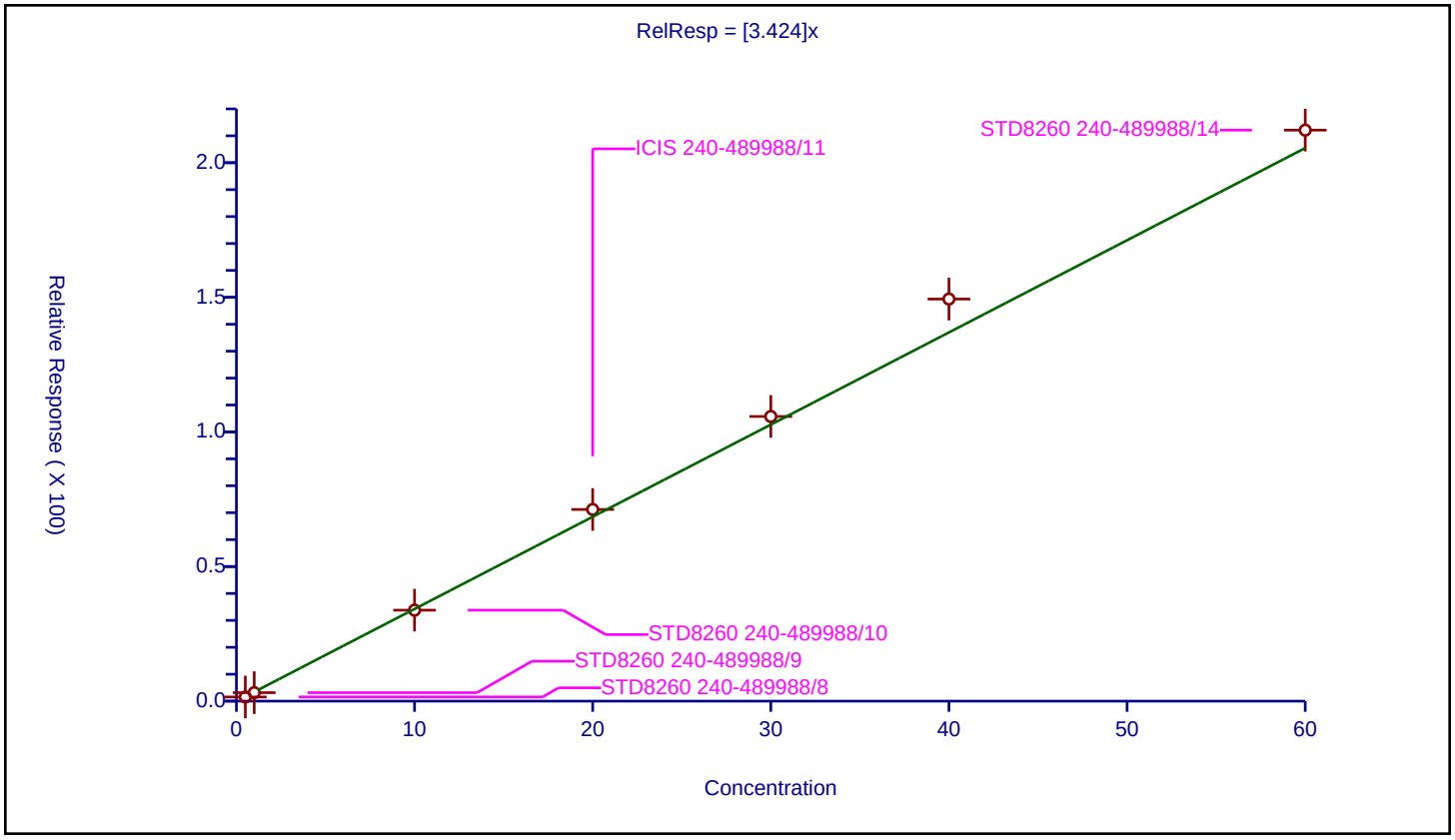
Curve Coefficients

Intercept:	0
Slope:	3.424

Error Coefficients

Standard Error:	4890000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	1.54047	20.0	787591.0	3.080939	Y
2	STD8260 240-489988/9	1.0	3.15489	20.0	795210.0	3.15489	Y
3	STD8260 240-489988/10	10.0	33.788308	20.0	812471.0	3.378831	Y
4	ICIS 240-489988/11	20.0	71.200095	20.0	801095.0	3.560005	Y
5	STD8260 240-489988/12	30.0	105.744917	20.0	805352.0	3.524831	Y
6	STD8260 240-489988/13	40.0	149.362442	20.0	802955.0	3.734061	Y
7	STD8260 240-489988/14	60.0	212.10112	20.0	841337.0	3.535019	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

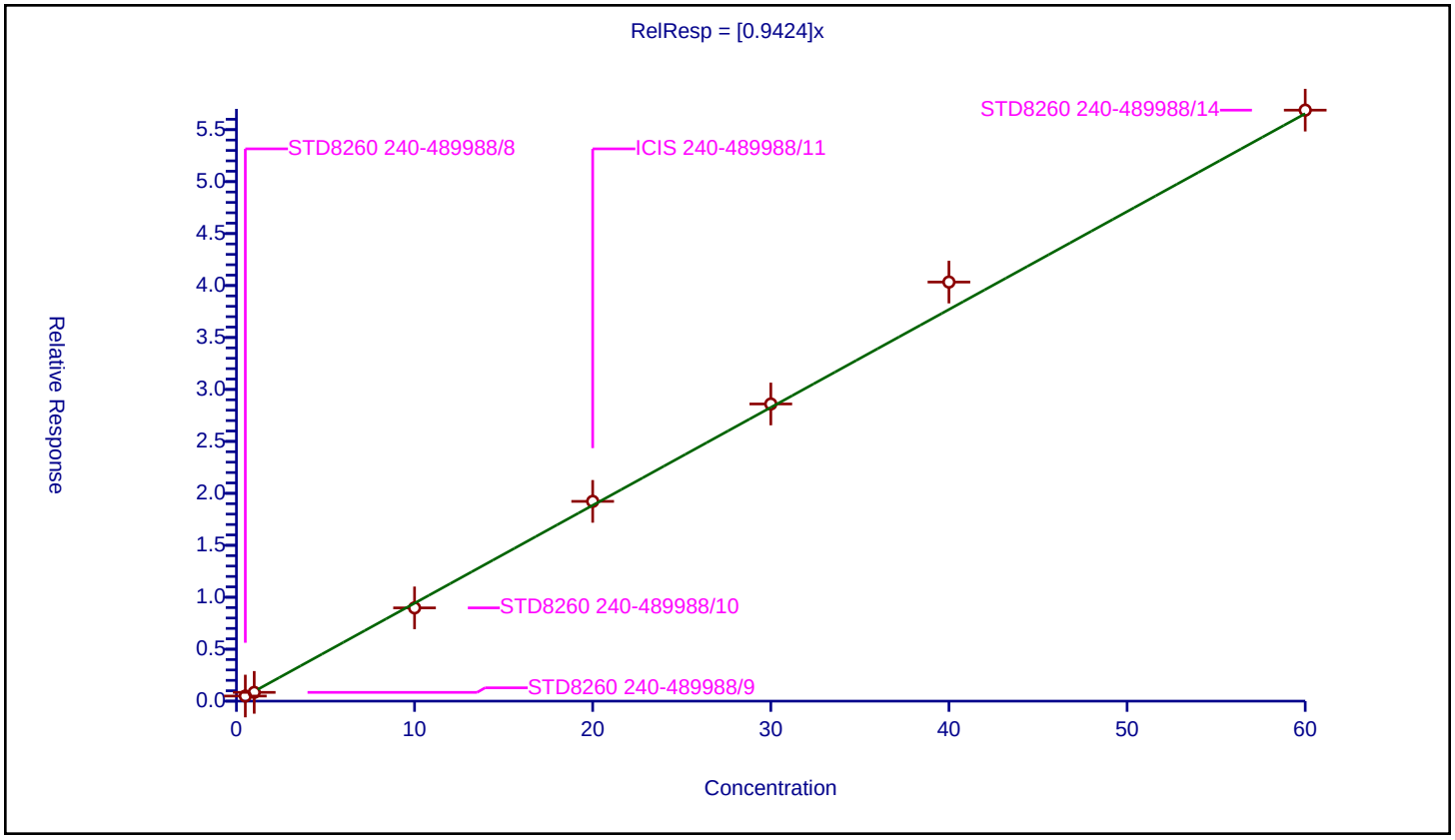
Curve Coefficients

Intercept:	0
Slope:	0.9424

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.491778	20.0	787591.0	0.983556	Y
2	STD8260 240-489988/9	1.0	0.844356	20.0	795210.0	0.844356	Y
3	STD8260 240-489988/10	10.0	8.976247	20.0	812471.0	0.897625	Y
4	ICIS 240-489988/11	20.0	19.22531	20.0	801095.0	0.961266	Y
5	STD8260 240-489988/12	30.0	28.599569	20.0	805352.0	0.953319	Y
6	STD8260 240-489988/13	40.0	40.33429	20.0	802955.0	1.008357	Y
7	STD8260 240-489988/14	60.0	56.879348	20.0	841337.0	0.947989	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

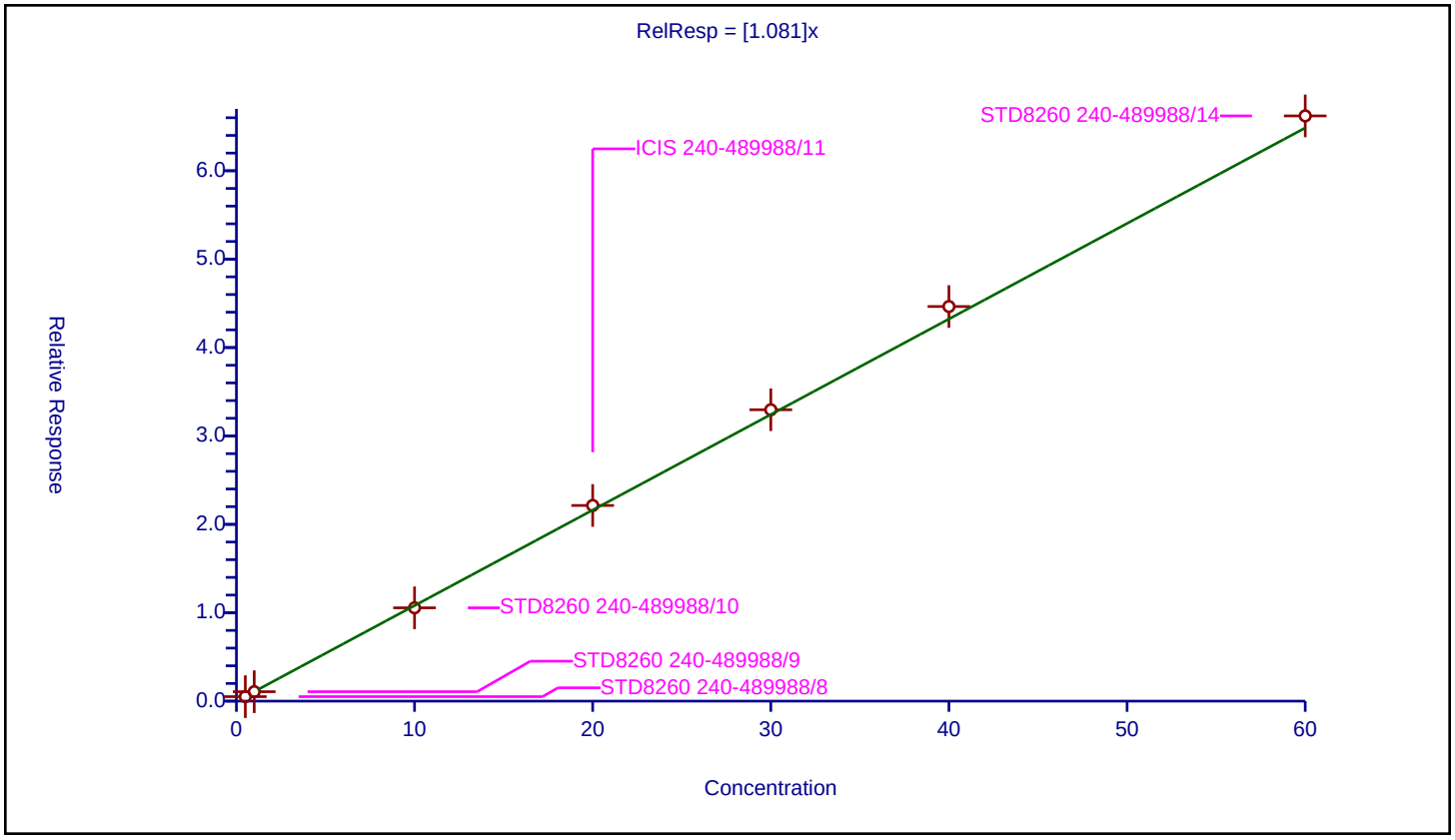
Curve Coefficients

Intercept:	0
Slope:	1.081

Error Coefficients

Standard Error:	862000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.508475	20.0	413354.0	1.016949	Y
2	STD8260 240-489988/9	1.0	1.067929	20.0	417949.0	1.067929	Y
3	STD8260 240-489988/10	10.0	10.556422	20.0	455967.0	1.055642	Y
4	ICIS 240-489988/11	20.0	22.135293	20.0	446290.0	1.106765	Y
5	STD8260 240-489988/12	30.0	32.964303	20.0	458607.0	1.09881	Y
6	STD8260 240-489988/13	40.0	44.644252	20.0	462800.0	1.116106	Y
7	STD8260 240-489988/14	60.0	66.208592	20.0	479136.0	1.103477	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

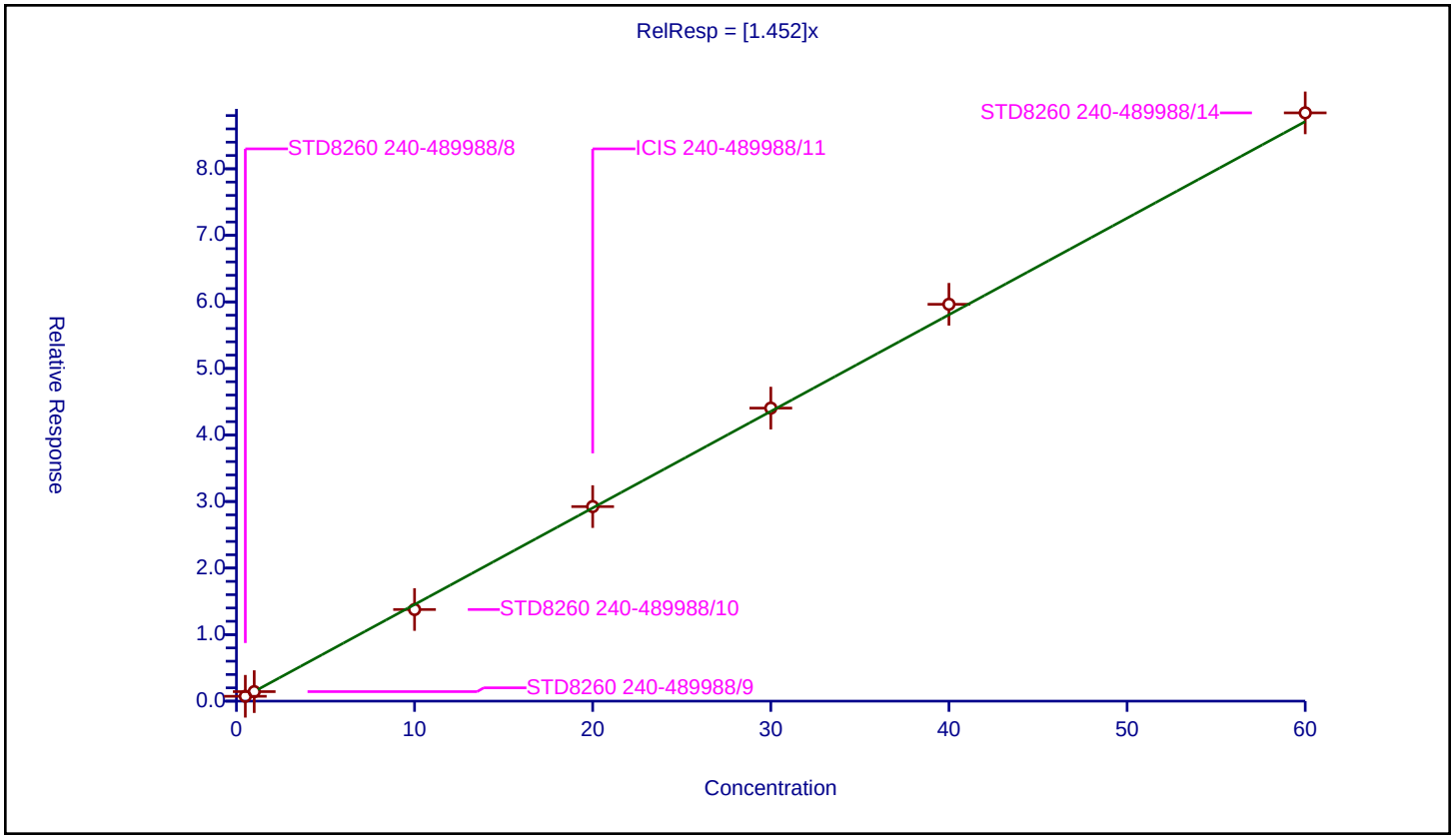
Curve Coefficients

Intercept:	0
Slope:	1.452

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.730318	20.0	413354.0	1.460637	Y
2	STD8260 240-489988/9	1.0	1.430031	20.0	417949.0	1.430031	Y
3	STD8260 240-489988/10	10.0	13.771128	20.0	455967.0	1.377113	Y
4	ICIS 240-489988/11	20.0	29.235161	20.0	446290.0	1.461758	Y
5	STD8260 240-489988/12	30.0	44.035481	20.0	458607.0	1.467849	Y
6	STD8260 240-489988/13	40.0	59.637338	20.0	462800.0	1.490933	Y
7	STD8260 240-489988/14	60.0	88.402166	20.0	479136.0	1.473369	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

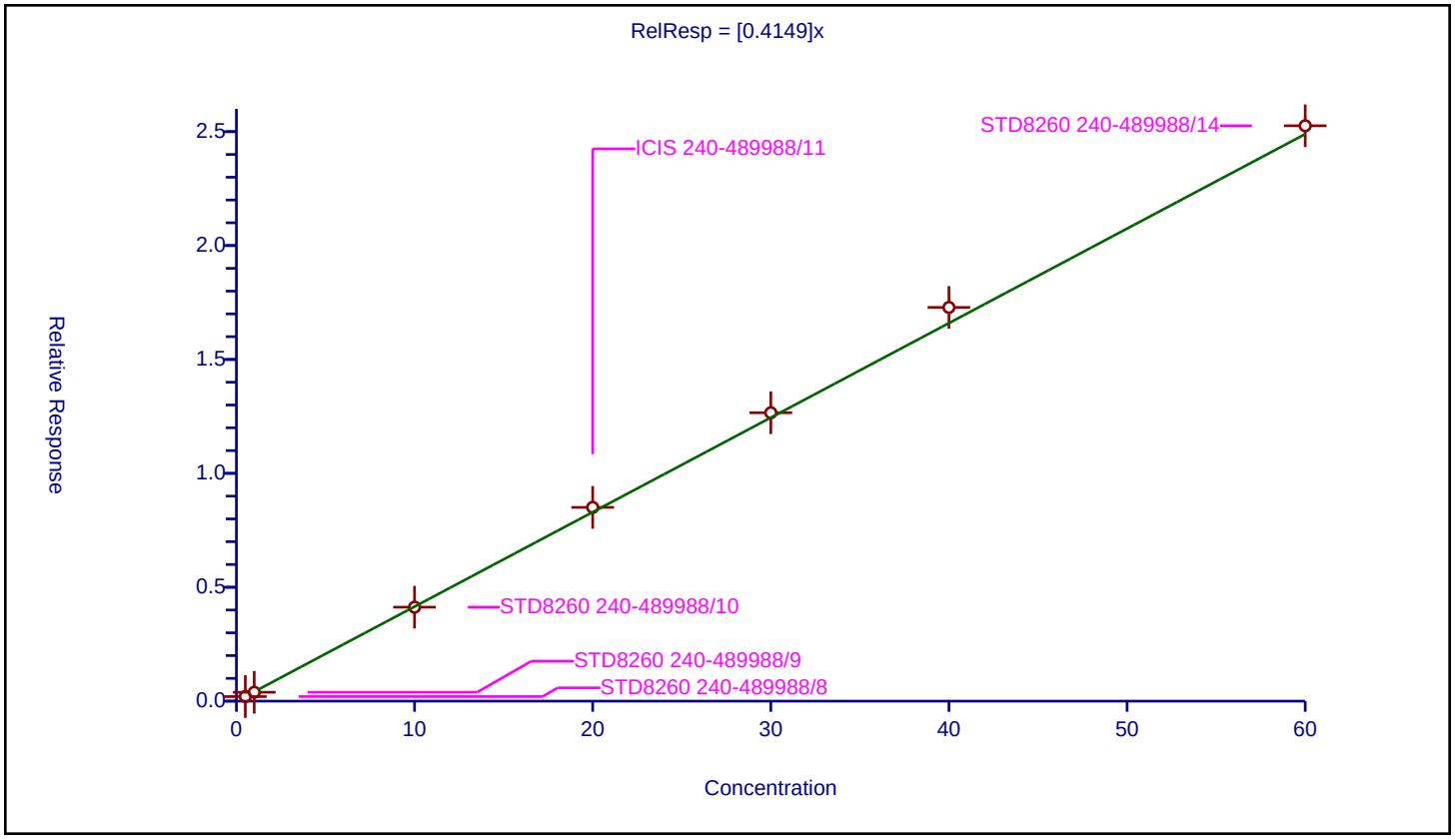
Curve Coefficients

Intercept:	0
Slope:	0.4149

Error Coefficients

Standard Error:	330000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.200845	20.0	413354.0	0.40169	Y
2	STD8260 240-489988/9	1.0	0.389713	20.0	417949.0	0.389713	Y
3	STD8260 240-489988/10	10.0	4.124684	20.0	455967.0	0.412468	Y
4	ICIS 240-489988/11	20.0	8.505232	20.0	446290.0	0.425262	Y
5	STD8260 240-489988/12	30.0	12.661604	20.0	458607.0	0.422053	Y
6	STD8260 240-489988/13	40.0	17.28414	20.0	462800.0	0.432104	Y
7	STD8260 240-489988/14	60.0	25.258799	20.0	479136.0	0.42098	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

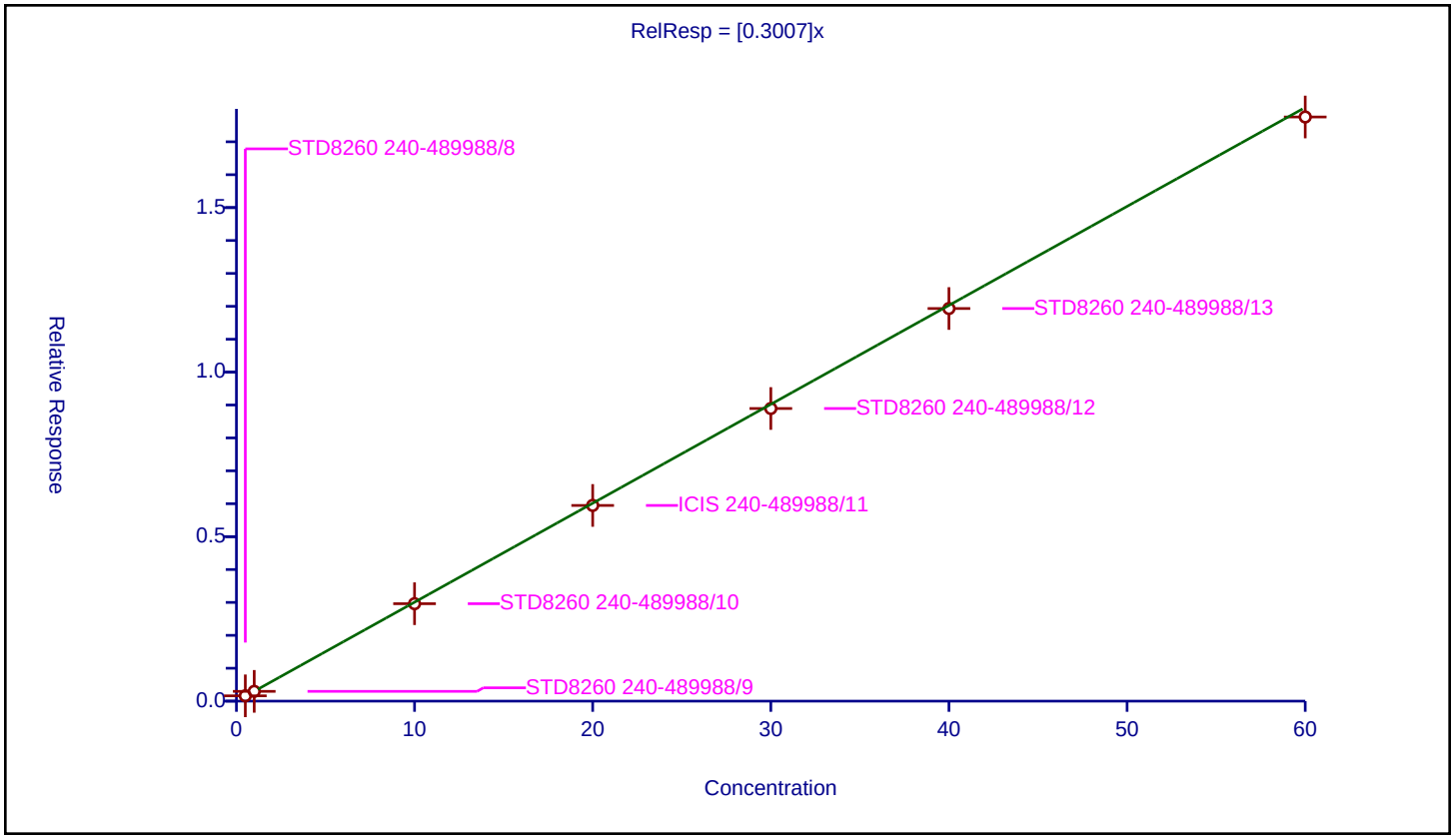
Curve Coefficients

Intercept:	0
Slope:	0.3007

Error Coefficients

Standard Error:	231000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.161653	20.0	413354.0	0.323306	Y
2	STD8260 240-489988/9	1.0	0.297596	20.0	417949.0	0.297596	Y
3	STD8260 240-489988/10	10.0	2.961179	20.0	455967.0	0.296118	Y
4	ICIS 240-489988/11	20.0	5.948016	20.0	446290.0	0.297401	Y
5	STD8260 240-489988/12	30.0	8.894413	20.0	458607.0	0.29648	Y
6	STD8260 240-489988/13	40.0	11.932714	20.0	462800.0	0.298318	Y
7	STD8260 240-489988/14	60.0	17.754041	20.0	479136.0	0.295901	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

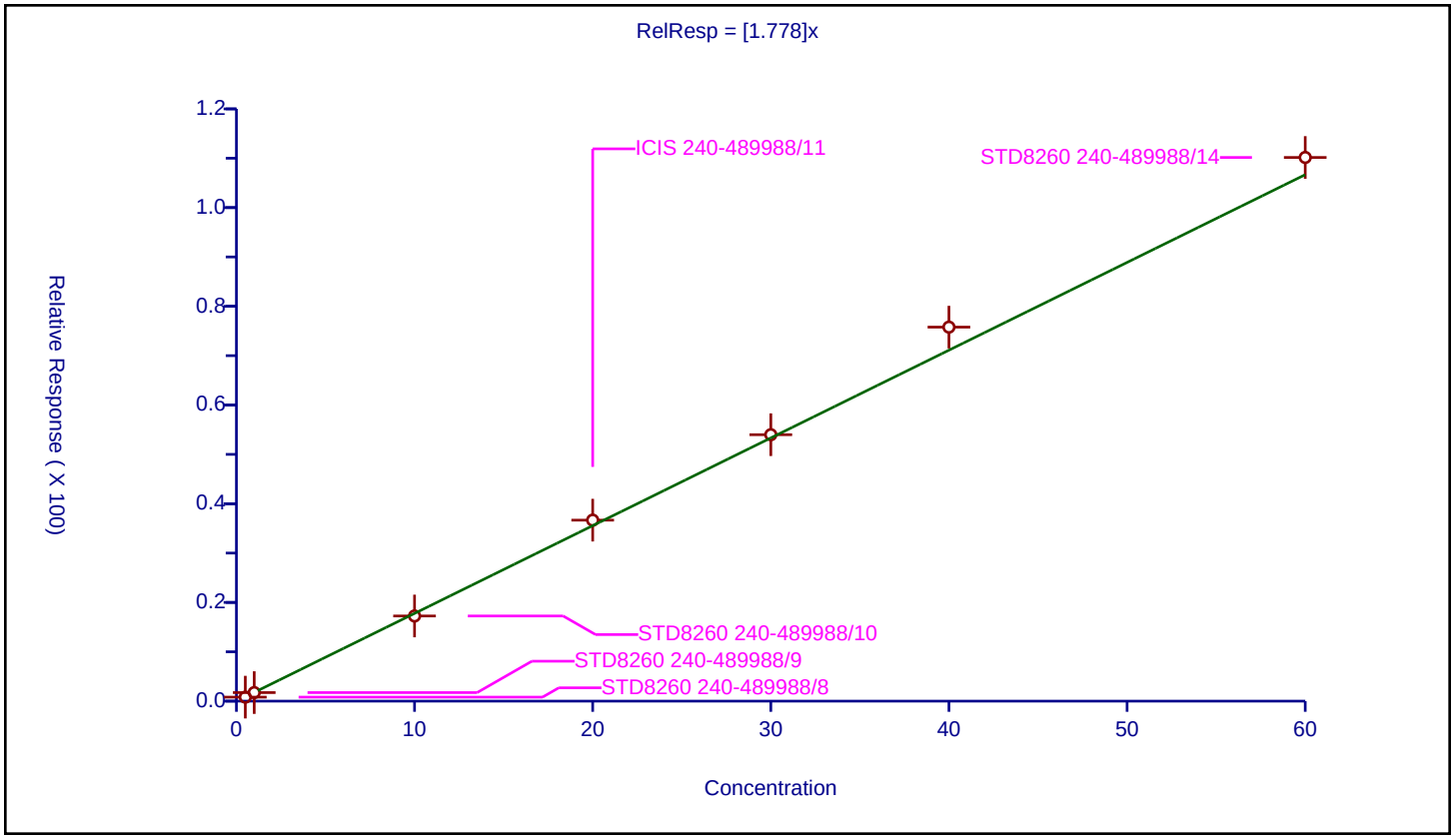
Curve Coefficients

Intercept:	0
Slope:	1.778

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.810201	20.0	413354.0	1.620403	Y
2	STD8260 240-489988/9	1.0	1.734422	20.0	417949.0	1.734422	Y
3	STD8260 240-489988/10	10.0	17.257696	20.0	455967.0	1.72577	Y
4	ICIS 240-489988/11	20.0	36.672522	20.0	446290.0	1.833626	Y
5	STD8260 240-489988/12	30.0	53.98666	20.0	458607.0	1.799555	Y
6	STD8260 240-489988/13	40.0	75.783016	20.0	462800.0	1.894575	Y
7	STD8260 240-489988/14	60.0	110.157867	20.0	479136.0	1.835964	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

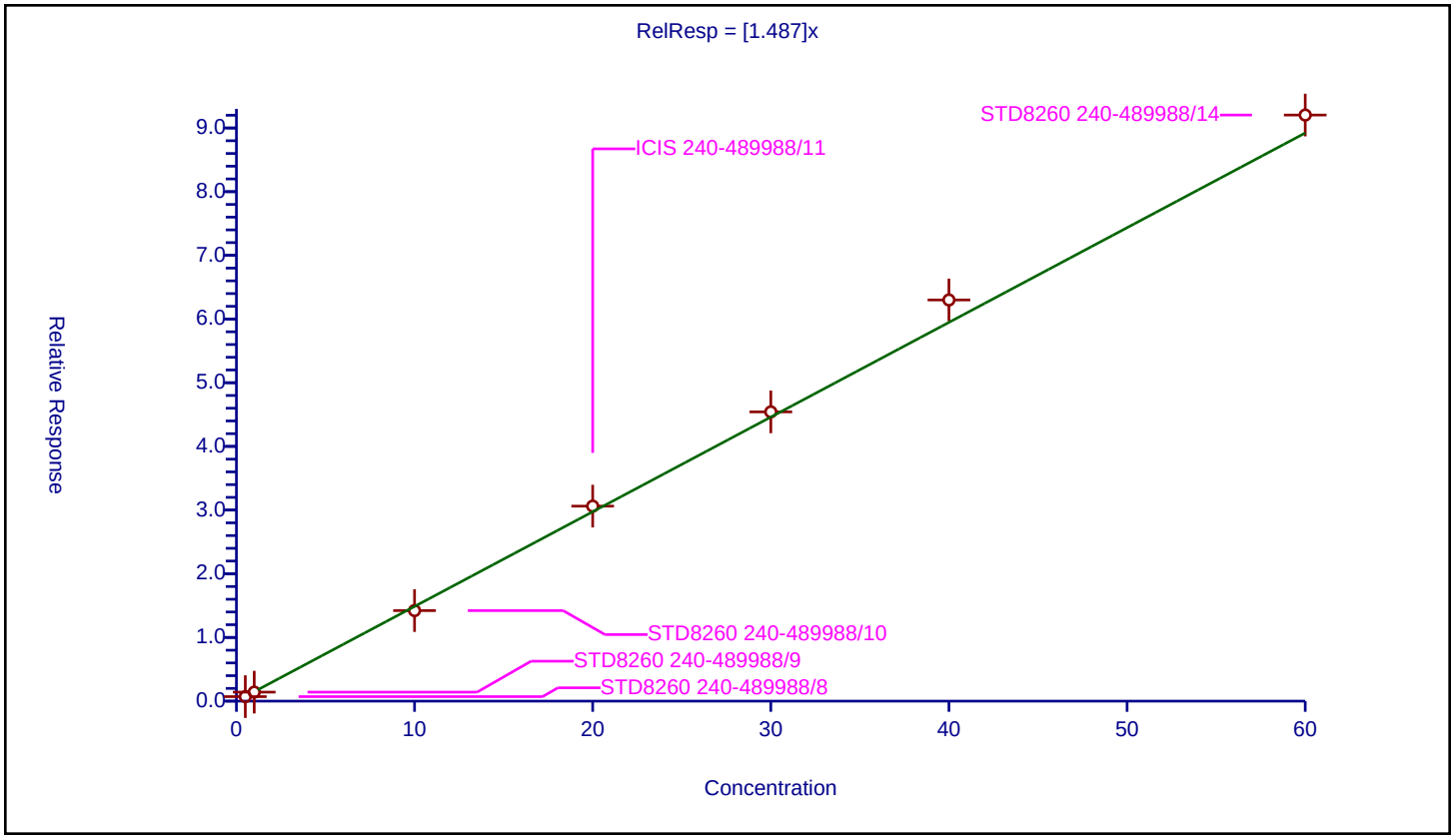
Curve Coefficients

Intercept:	0
Slope:	1.487

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.70811	20.0	413354.0	1.41622	Y
2	STD8260 240-489988/9	1.0	1.416441	20.0	417949.0	1.416441	Y
3	STD8260 240-489988/10	10.0	14.218968	20.0	455967.0	1.421897	Y
4	ICIS 240-489988/11	20.0	30.61879	20.0	446290.0	1.53094	Y
5	STD8260 240-489988/12	30.0	45.420371	20.0	458607.0	1.514012	Y
6	STD8260 240-489988/13	40.0	62.997753	20.0	462800.0	1.574944	Y
7	STD8260 240-489988/14	60.0	92.032116	20.0	479136.0	1.533869	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

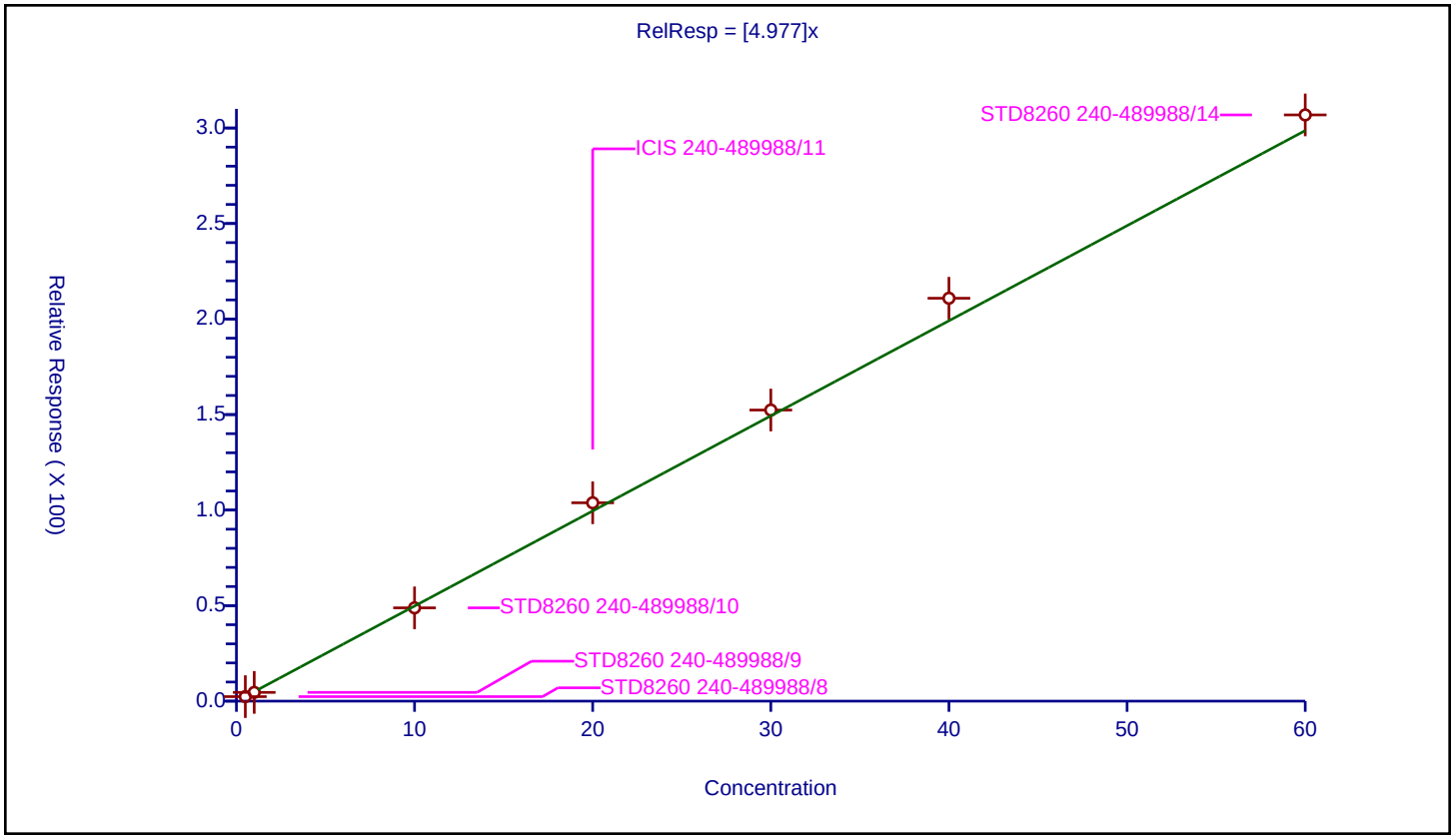
Curve Coefficients

Intercept:	0
Slope:	4.977

Error Coefficients

Standard Error:	4010000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	2.359334	20.0	413354.0	4.718667	Y
2	STD8260 240-489988/9	1.0	4.584291	20.0	417949.0	4.584291	Y
3	STD8260 240-489988/10	10.0	48.823314	20.0	455967.0	4.882331	Y
4	ICIS 240-489988/11	20.0	103.822716	20.0	446290.0	5.191136	Y
5	STD8260 240-489988/12	30.0	152.364574	20.0	458607.0	5.078819	Y
6	STD8260 240-489988/13	40.0	210.886517	20.0	462800.0	5.272163	Y
7	STD8260 240-489988/14	60.0	306.848703	20.0	479136.0	5.114145	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

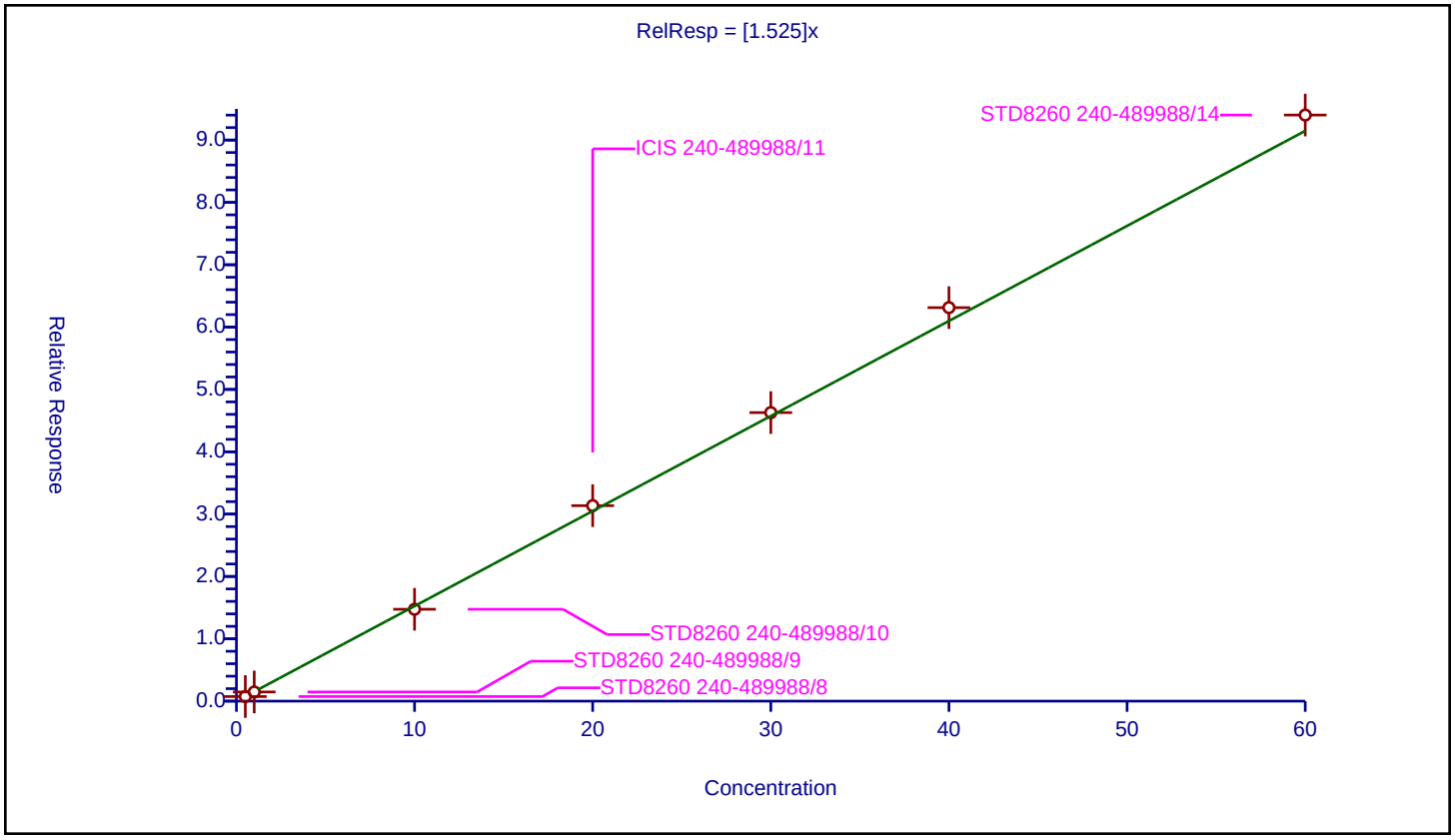
Curve Coefficients

Intercept:	0
Slope:	1.525

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.736318	20.0	413354.0	1.472636	Y
2	STD8260 240-489988/9	1.0	1.469797	20.0	417949.0	1.469797	Y
3	STD8260 240-489988/10	10.0	14.738216	20.0	455967.0	1.473822	Y
4	ICIS 240-489988/11	20.0	31.3571	20.0	446290.0	1.567855	Y
5	STD8260 240-489988/12	30.0	46.283157	20.0	458607.0	1.542772	Y
6	STD8260 240-489988/13	40.0	63.119706	20.0	462800.0	1.577993	Y
7	STD8260 240-489988/14	60.0	94.012389	20.0	479136.0	1.566873	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

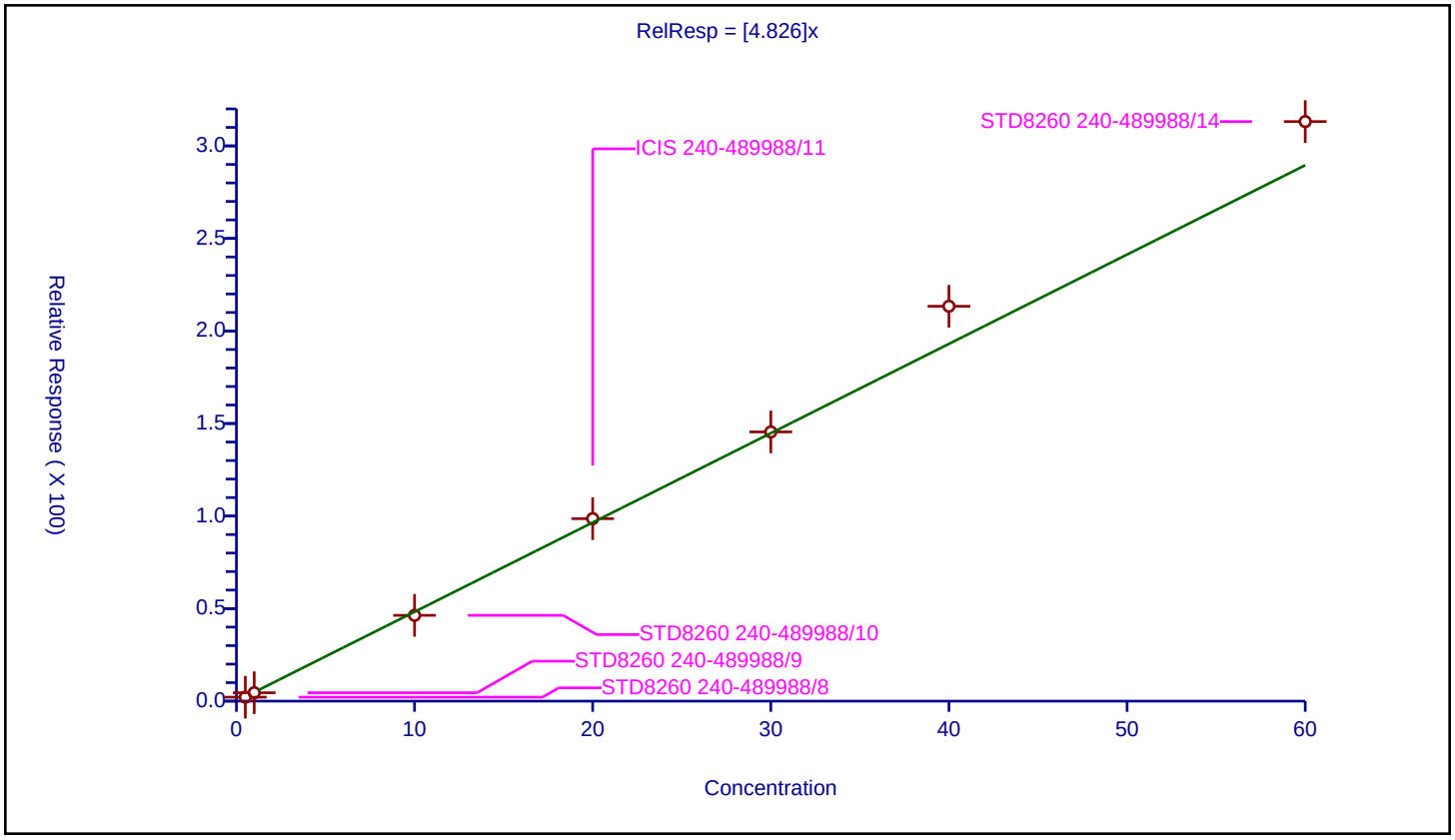
Curve Coefficients

Intercept:	0
Slope:	4.826

Error Coefficients

Standard Error:	4040000
Relative Standard Error:	7.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	2.133764	20.0	413354.0	4.267529	Y
2	STD8260 240-489988/9	1.0	4.544765	20.0	417949.0	4.544765	Y
3	STD8260 240-489988/10	10.0	46.364145	20.0	455967.0	4.636414	Y
4	ICIS 240-489988/11	20.0	98.601582	20.0	446290.0	4.930079	Y
5	STD8260 240-489988/12	30.0	145.471787	20.0	458607.0	4.84906	Y
6	STD8260 240-489988/13	40.0	213.369533	20.0	462800.0	5.334238	Y
7	STD8260 240-489988/14	60.0	313.152591	20.0	479136.0	5.21921	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

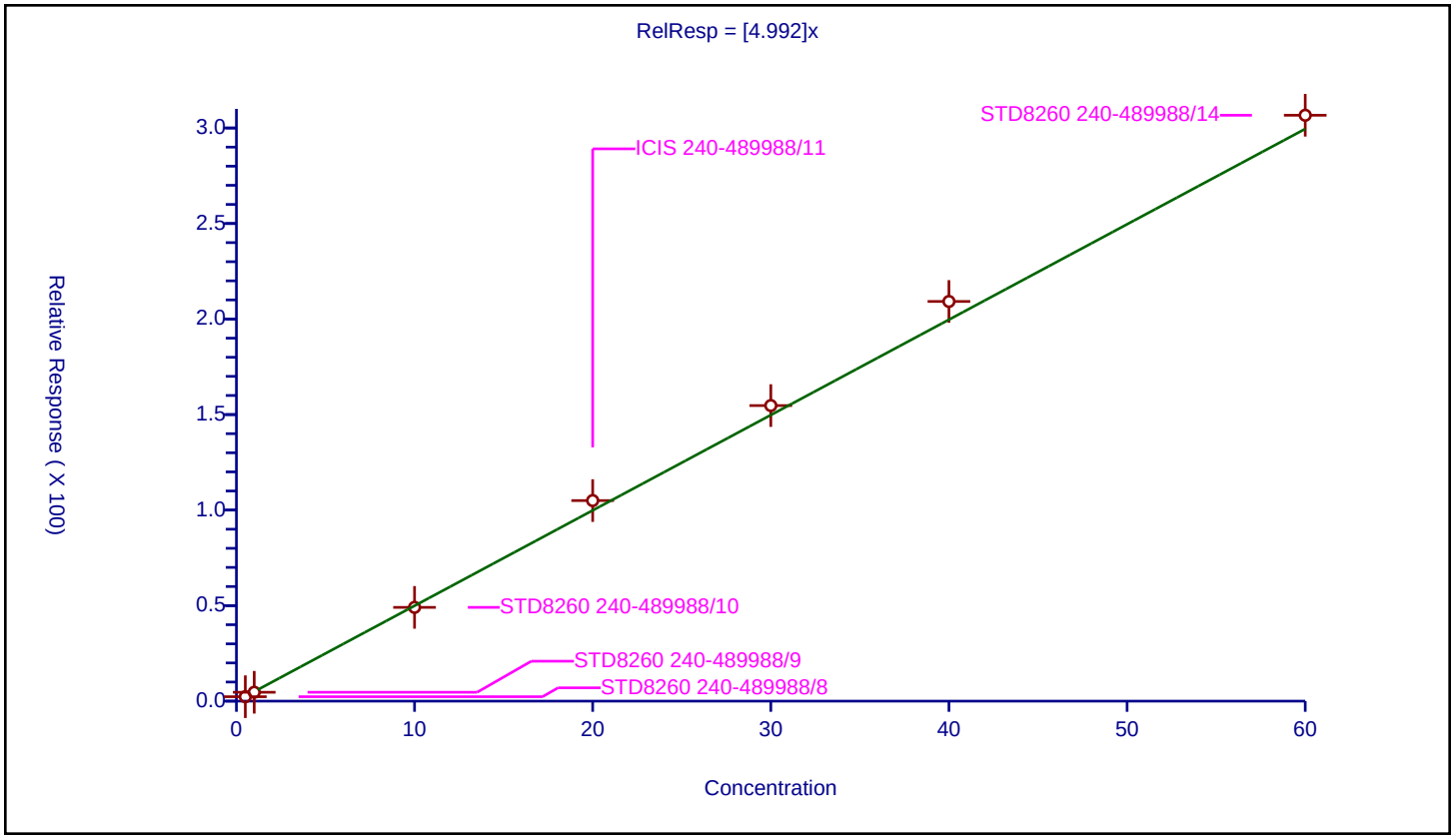
Curve Coefficients

Intercept:	0
Slope:	4.992

Error Coefficients

Standard Error:	4020000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	2.317433	20.0	413354.0	4.634865	Y
2	STD8260 240-489988/9	1.0	4.653151	20.0	417949.0	4.653151	Y
3	STD8260 240-489988/10	10.0	49.084122	20.0	455967.0	4.908412	Y
4	ICIS 240-489988/11	20.0	104.980215	20.0	446290.0	5.249011	Y
5	STD8260 240-489988/12	30.0	154.710896	20.0	458607.0	5.15703	Y
6	STD8260 240-489988/13	40.0	209.203198	20.0	462800.0	5.23008	Y
7	STD8260 240-489988/14	60.0	306.673512	20.0	479136.0	5.111225	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

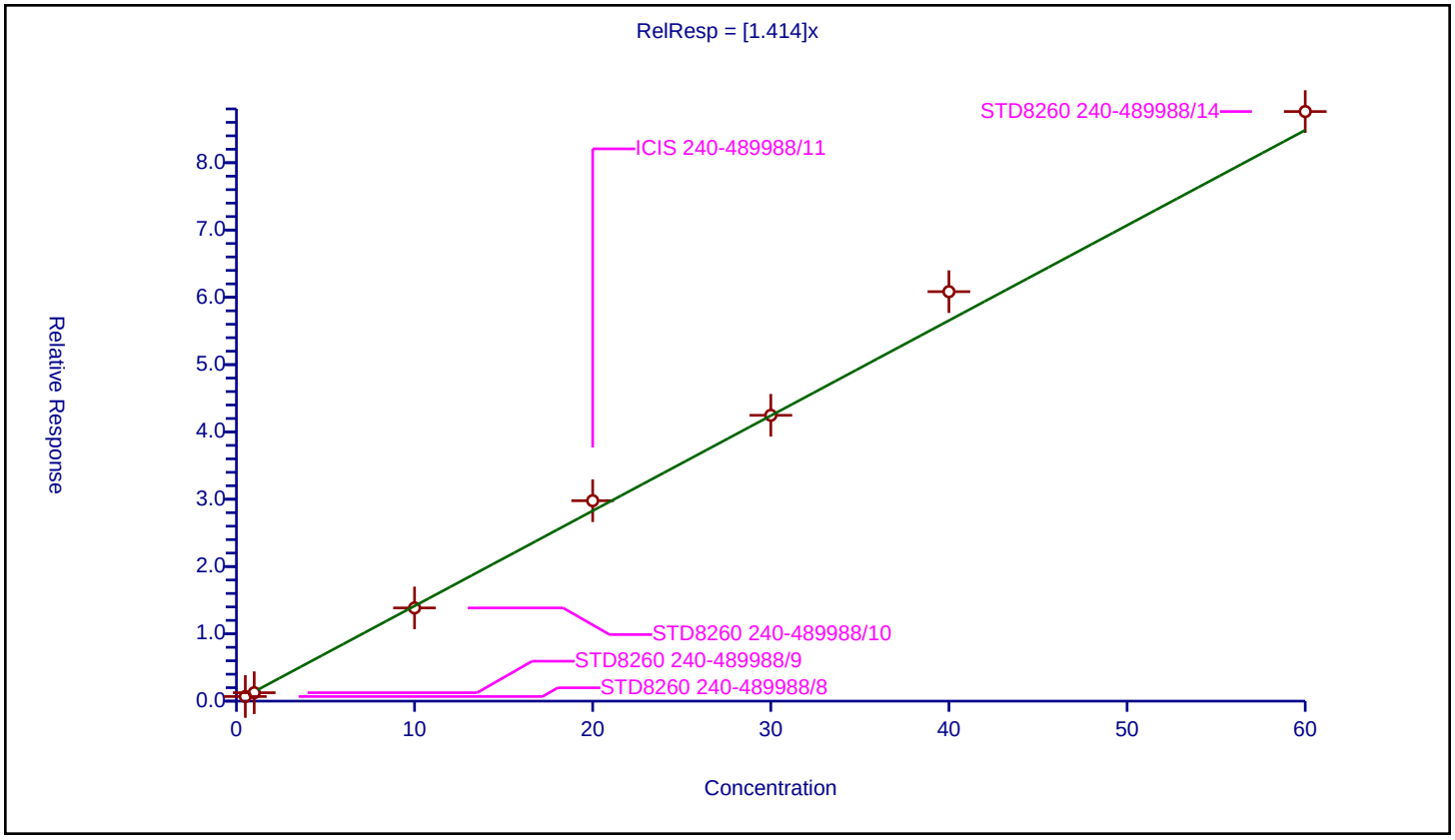
Curve Coefficients

Intercept:	0
Slope:	1.414

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.687885	20.0	413354.0	1.37577	Y
2	STD8260 240-489988/9	1.0	1.251205	20.0	417949.0	1.251205	Y
3	STD8260 240-489988/10	10.0	13.848722	20.0	455967.0	1.384872	Y
4	ICIS 240-489988/11	20.0	29.781443	20.0	446290.0	1.489072	Y
5	STD8260 240-489988/12	30.0	42.472226	20.0	458607.0	1.415741	Y
6	STD8260 240-489988/13	40.0	60.842783	20.0	462800.0	1.52107	Y
7	STD8260 240-489988/14	60.0	87.60953	20.0	479136.0	1.460159	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

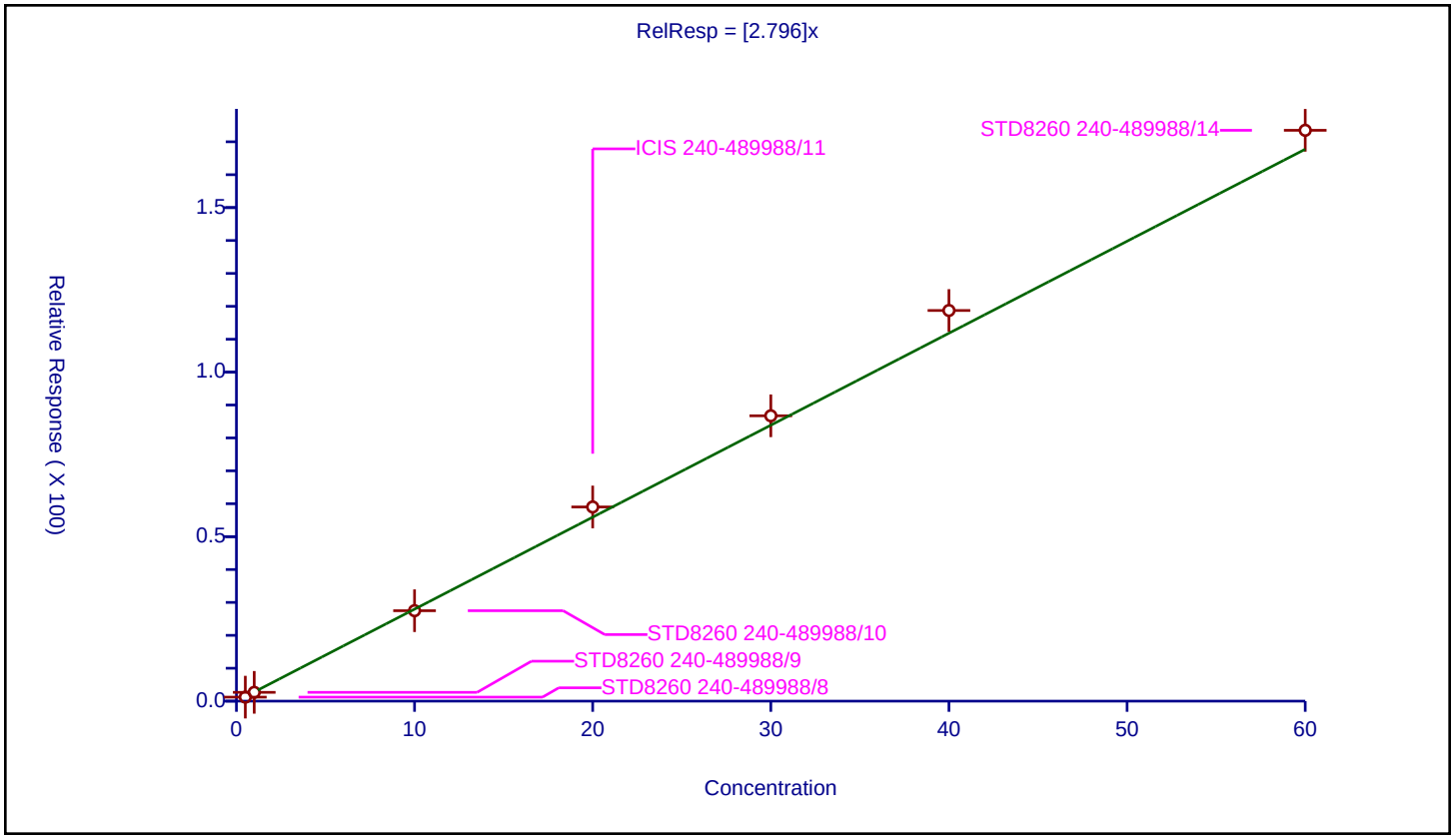
Curve Coefficients

Intercept:	0
Slope:	2.796

Error Coefficients

Standard Error:	2270000
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 240-489988/8	0.5	1.221374	20.0	413354.0	2.442749	Y
2	STD8260 240-489988/9	1.0	2.676403	20.0	417949.0	2.676403	Y
3	STD8260 240-489988/10	10.0	27.488963	20.0	455967.0	2.748896	Y
4	ICIS 240-489988/11	20.0	59.017231	20.0	446290.0	2.950862	Y
5	STD8260 240-489988/12	30.0	86.723927	20.0	458607.0	2.890798	Y
6	STD8260 240-489988/13	40.0	118.732066	20.0	462800.0	2.968302	Y
7	STD8260 240-489988/14	60.0	173.489239	20.0	479136.0	2.891487	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

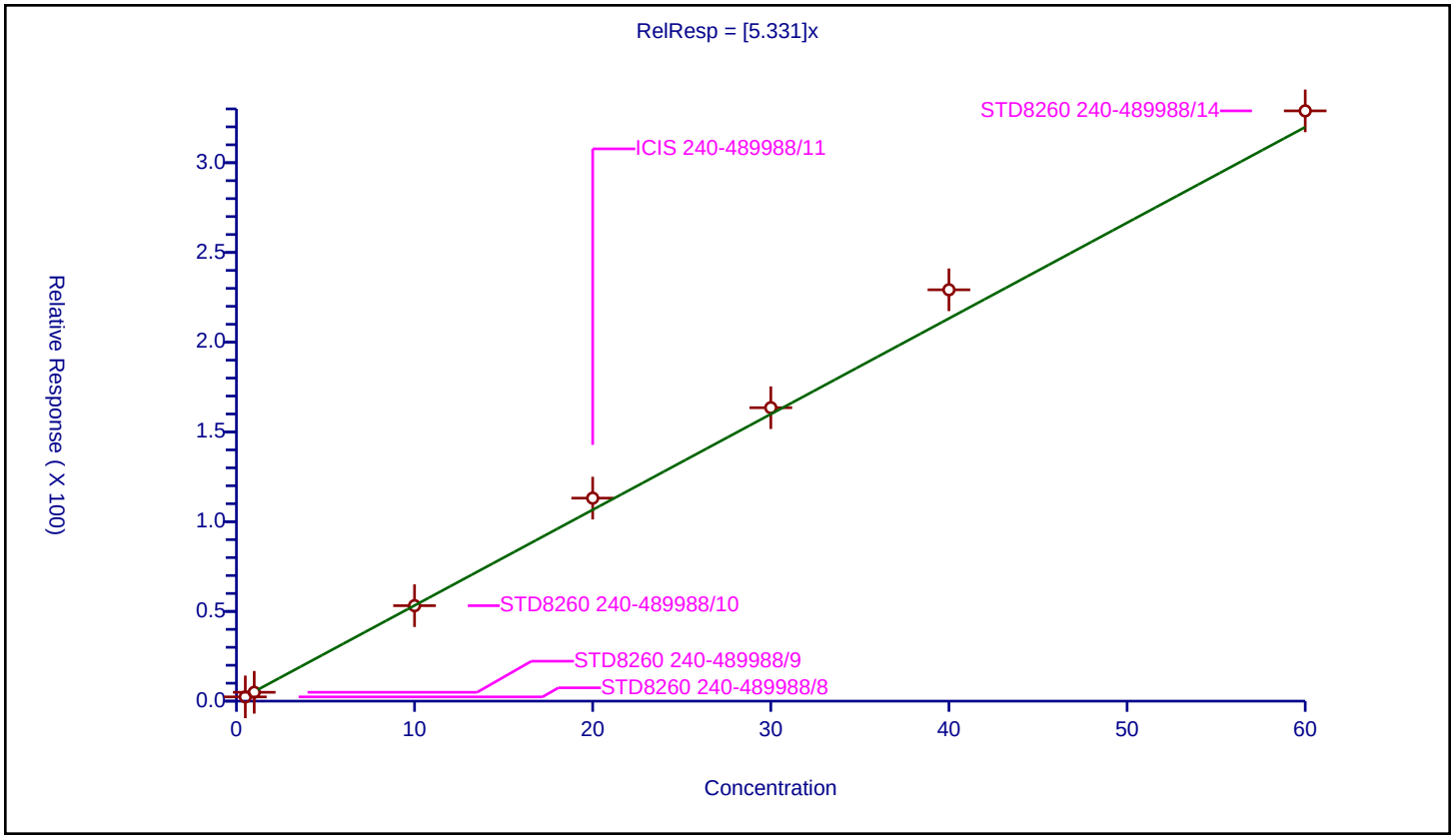
Curve Coefficients

Intercept:	0
Slope:	5.331

Error Coefficients

Standard Error:	4320000
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 240-489988/8	0.5	2.37114	20.0	413354.0	4.742279	Y
2	STD8260 240-489988/9	1.0	4.936966	20.0	417949.0	4.936966	Y
3	STD8260 240-489988/10	10.0	53.189288	20.0	455967.0	5.318929	Y
4	ICIS 240-489988/11	20.0	113.114522	20.0	446290.0	5.655726	Y
5	STD8260 240-489988/12	30.0	163.504831	20.0	458607.0	5.450161	Y
6	STD8260 240-489988/13	40.0	229.206655	20.0	462800.0	5.730166	Y
7	STD8260 240-489988/14	60.0	328.901398	20.0	479136.0	5.48169	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

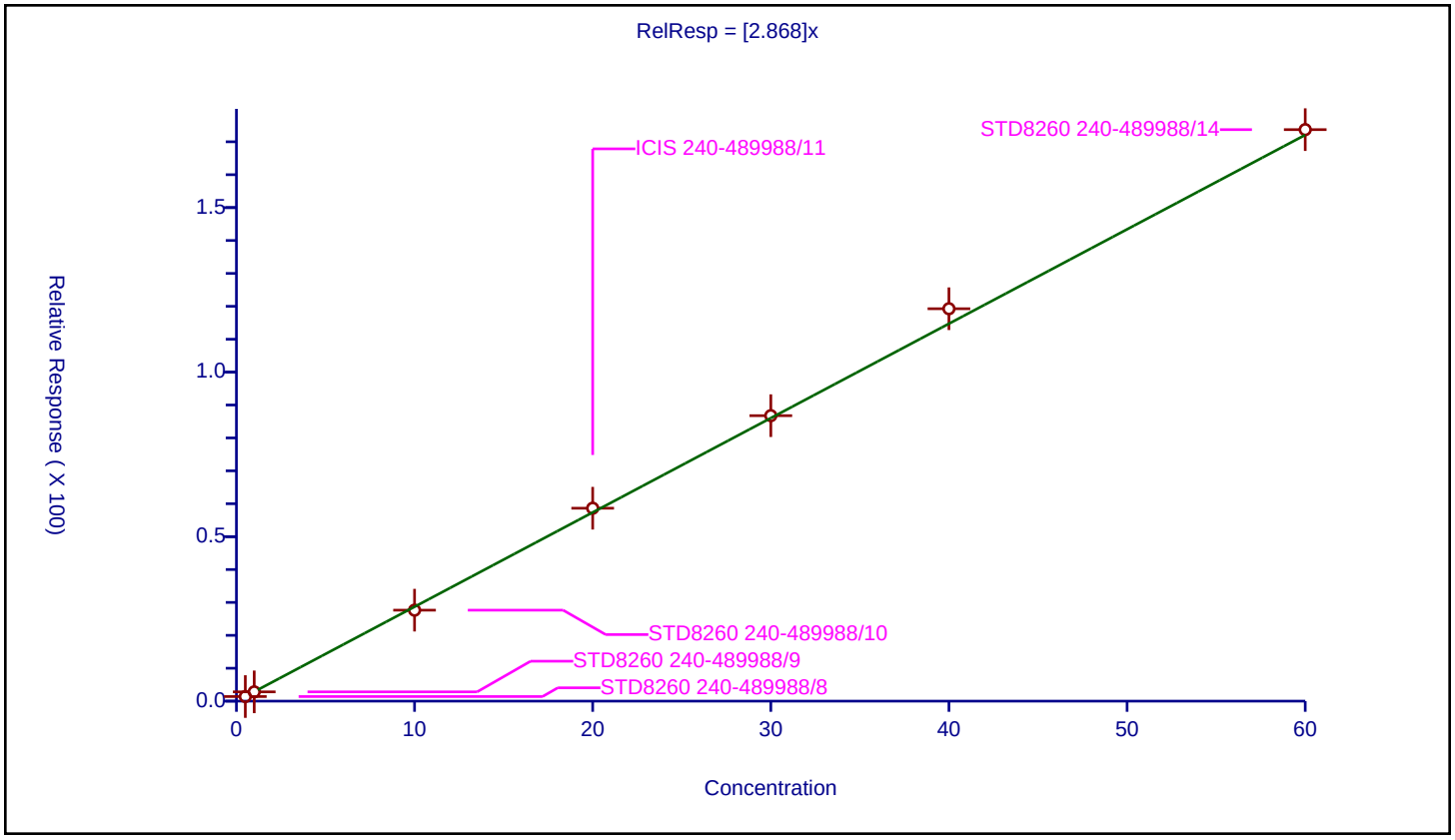
Curve Coefficients

Intercept:	0
Slope:	2.868

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	2.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	1.393188	20.0	413354.0	2.786377	Y
2	STD8260 240-489988/9	1.0	2.824364	20.0	417949.0	2.824364	Y
3	STD8260 240-489988/10	10.0	27.648185	20.0	455967.0	2.764819	Y
4	ICIS 240-489988/11	20.0	58.633041	20.0	446290.0	2.931652	Y
5	STD8260 240-489988/12	30.0	86.763351	20.0	458607.0	2.892112	Y
6	STD8260 240-489988/13	40.0	119.261409	20.0	462800.0	2.981535	Y
7	STD8260 240-489988/14	60.0	173.696362	20.0	479136.0	2.894939	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

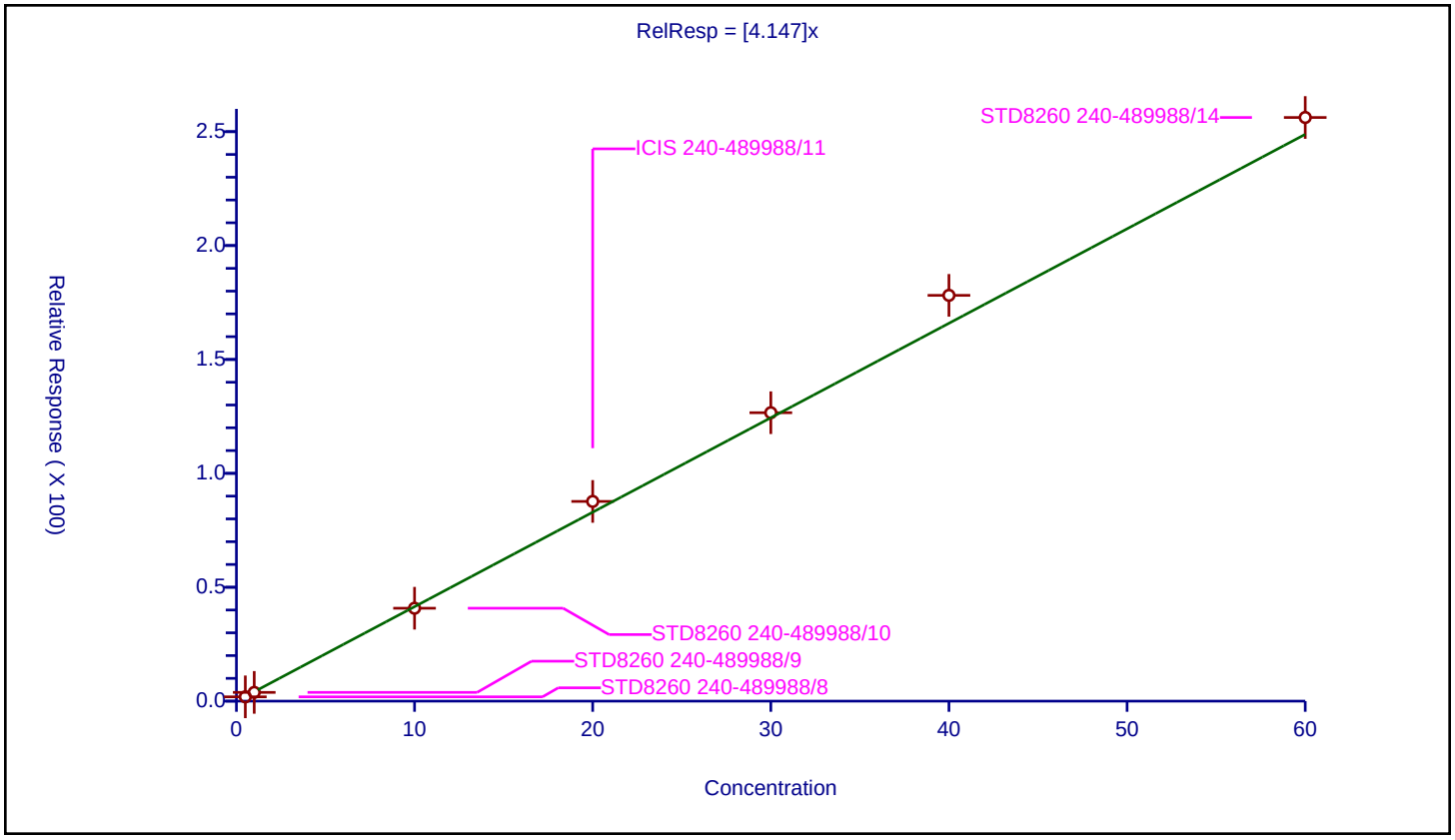
Curve Coefficients

Intercept:	0
Slope:	4.147

Error Coefficients

Standard Error:	3360000
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 240-489988/8	0.5	1.887825	20.0	413354.0	3.77565	Y
2	STD8260 240-489988/9	1.0	3.846211	20.0	417949.0	3.846211	Y
3	STD8260 240-489988/10	10.0	40.791417	20.0	455967.0	4.079142	Y
4	ICIS 240-489988/11	20.0	87.67483	20.0	446290.0	4.383742	Y
5	STD8260 240-489988/12	30.0	126.622577	20.0	458607.0	4.220753	Y
6	STD8260 240-489988/13	40.0	178.146456	20.0	462800.0	4.453661	Y
7	STD8260 240-489988/14	60.0	256.22796	20.0	479136.0	4.270466	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

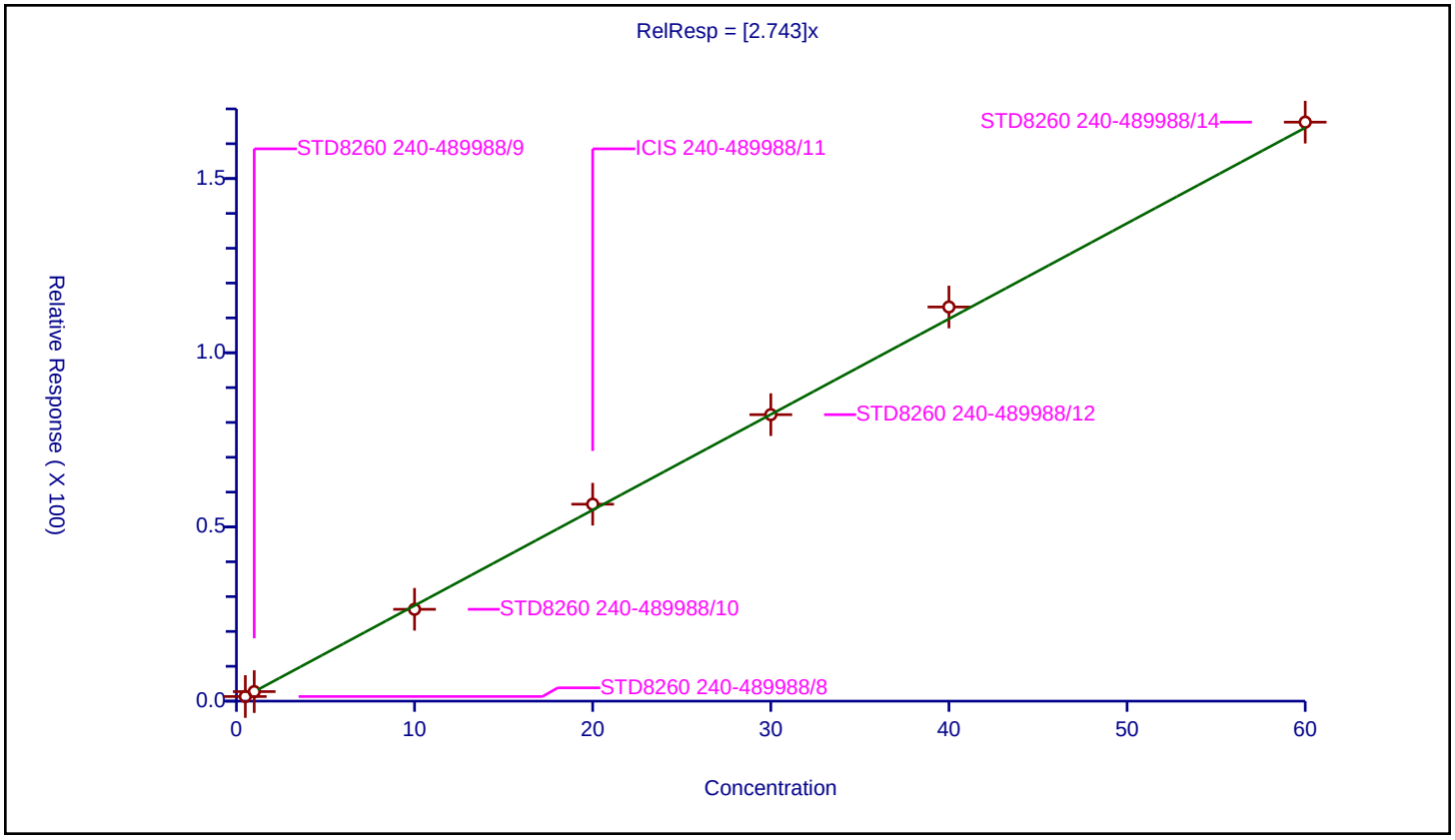
Curve Coefficients

Intercept:	0
Slope:	2.743

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	1.327917	20.0	413354.0	2.655835	Y
2	STD8260 240-489988/9	1.0	2.743397	20.0	417949.0	2.743397	Y
3	STD8260 240-489988/10	10.0	26.366206	20.0	455967.0	2.636621	Y
4	ICIS 240-489988/11	20.0	56.531941	20.0	446290.0	2.826597	Y
5	STD8260 240-489988/12	30.0	82.237646	20.0	458607.0	2.741255	Y
6	STD8260 240-489988/13	40.0	113.139283	20.0	462800.0	2.828482	Y
7	STD8260 240-489988/14	60.0	166.190142	20.0	479136.0	2.769836	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

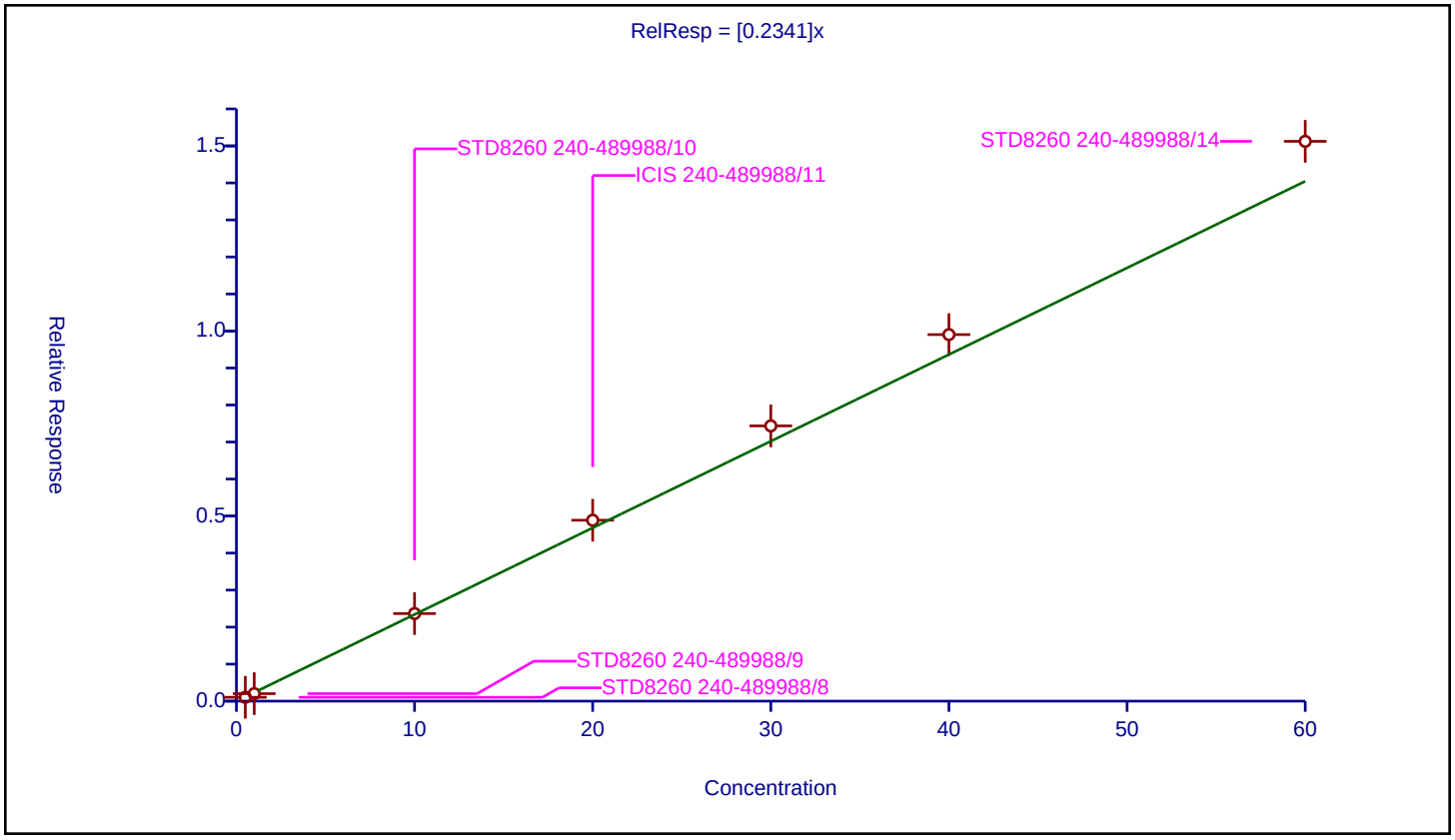
Curve Coefficients

Intercept:	0
Slope:	0.2341

Error Coefficients

Standard Error:	195000
Relative Standard Error:	8.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.103979	20.0	413354.0	0.207957	Y
2	STD8260 240-489988/9	1.0	0.202226	20.0	417949.0	0.202226	Y
3	STD8260 240-489988/10	10.0	2.365785	20.0	455967.0	0.236579	Y
4	ICIS 240-489988/11	20.0	4.887181	20.0	446290.0	0.244359	Y
5	STD8260 240-489988/12	30.0	7.436258	20.0	458607.0	0.247875	Y
6	STD8260 240-489988/13	40.0	9.902463	20.0	462800.0	0.247562	Y
7	STD8260 240-489988/14	60.0	15.123556	20.0	479136.0	0.252059	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

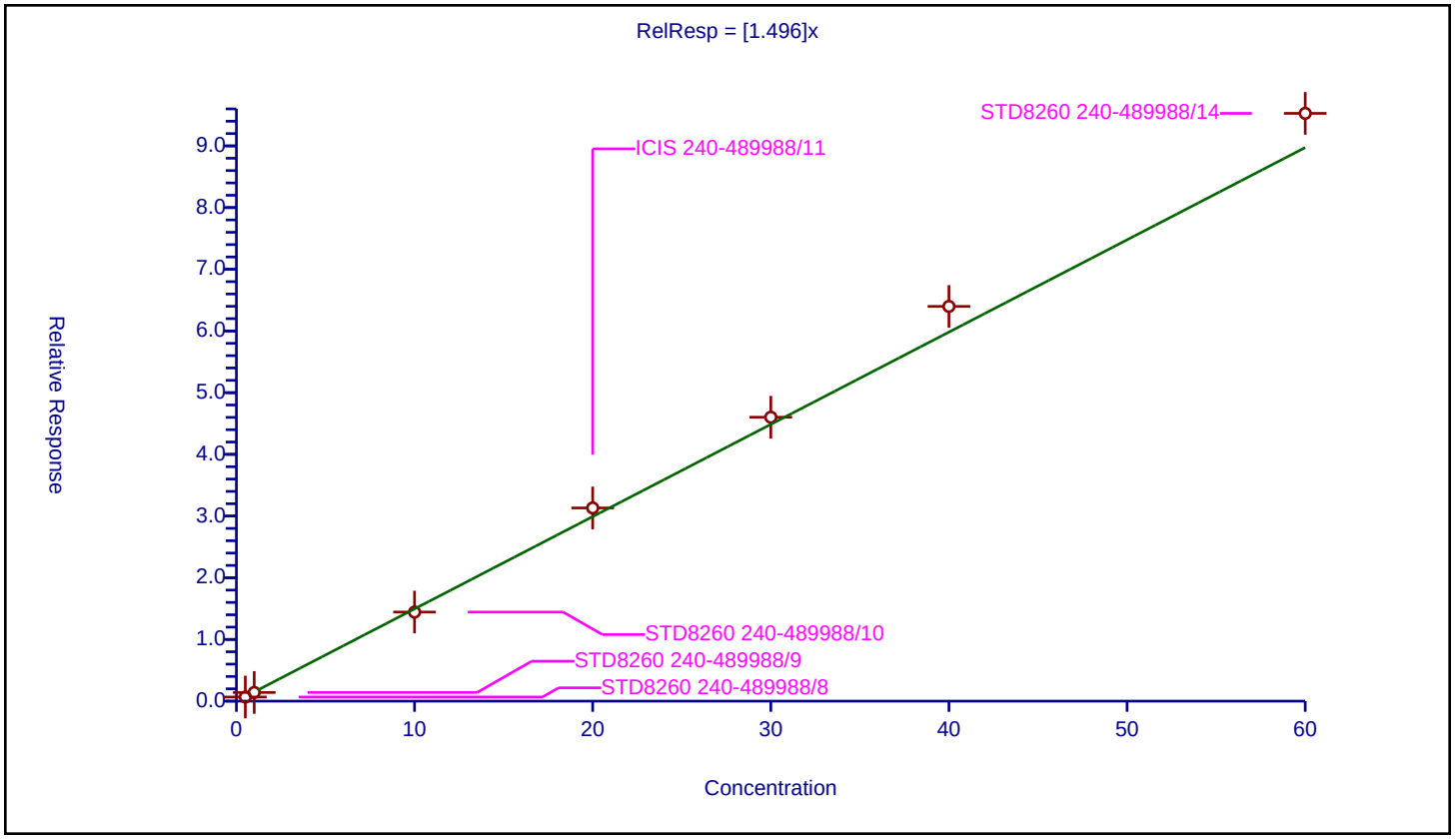
Curve Coefficients

Intercept:	0
Slope:	1.496

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.665434	20.0	413354.0	1.330869	Y
2	STD8260 240-489988/9	1.0	1.406775	20.0	417949.0	1.406775	Y
3	STD8260 240-489988/10	10.0	14.437712	20.0	455967.0	1.443771	Y
4	ICIS 240-489988/11	20.0	31.314213	20.0	446290.0	1.565711	Y
5	STD8260 240-489988/12	30.0	46.021365	20.0	458607.0	1.534045	Y
6	STD8260 240-489988/13	40.0	63.984875	20.0	462800.0	1.599622	Y
7	STD8260 240-489988/14	60.0	95.275997	20.0	479136.0	1.587933	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

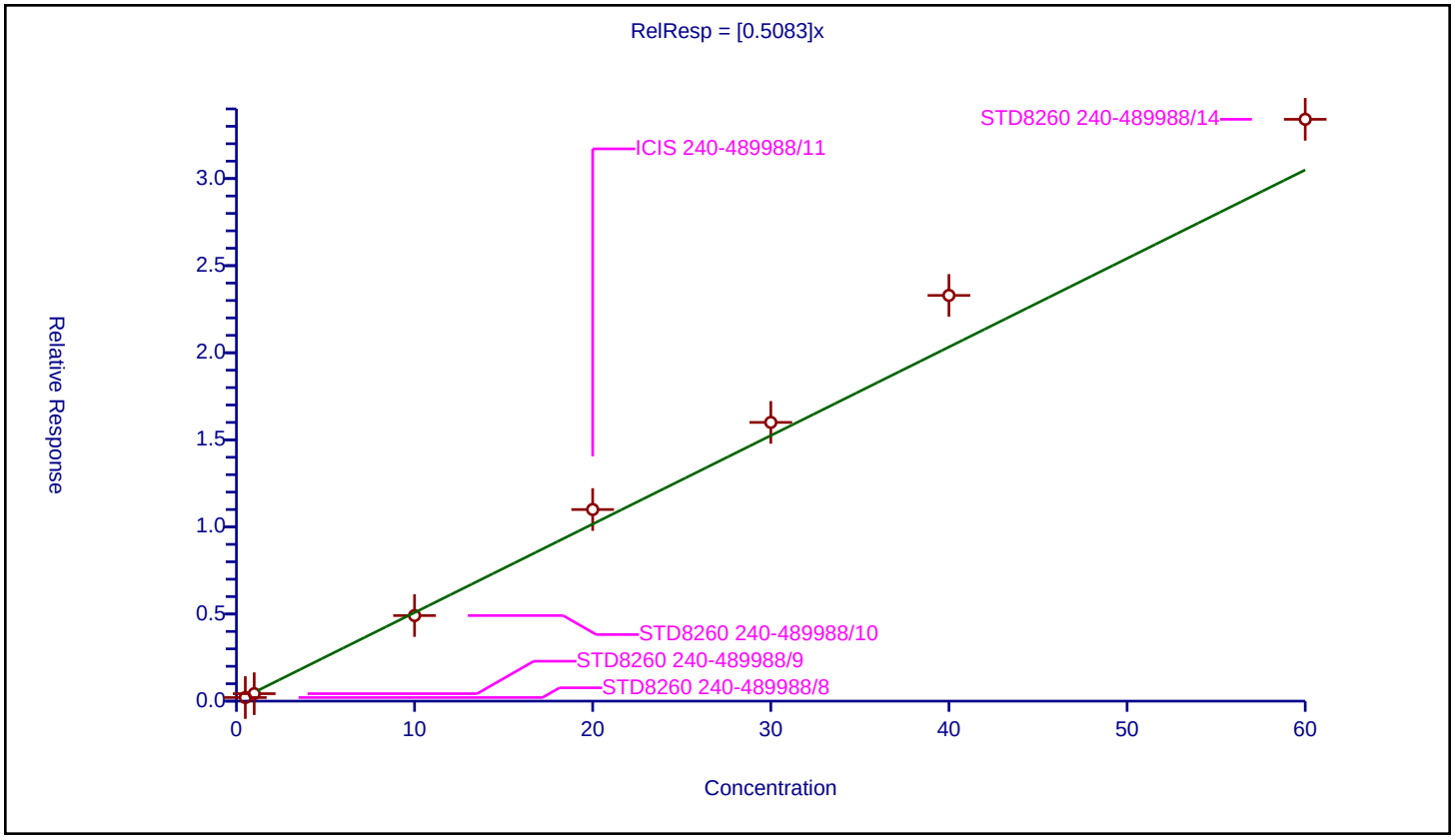
Curve Coefficients

Intercept:	0
Slope:	0.5083

Error Coefficients

Standard Error:	436000
Relative Standard Error:	12.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.207328	20.0	413354.0	0.414657	Y
2	STD8260 240-489988/9	1.0	0.429526	20.0	417949.0	0.429526	Y
3	STD8260 240-489988/10	10.0	4.912724	20.0	455967.0	0.491272	Y
4	ICIS 240-489988/11	20.0	11.001188	20.0	446290.0	0.550059	Y
5	STD8260 240-489988/12	30.0	16.002154	20.0	458607.0	0.533405	Y
6	STD8260 240-489988/13	40.0	23.292826	20.0	462800.0	0.582321	Y
7	STD8260 240-489988/14	60.0	33.401414	20.0	479136.0	0.55669	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

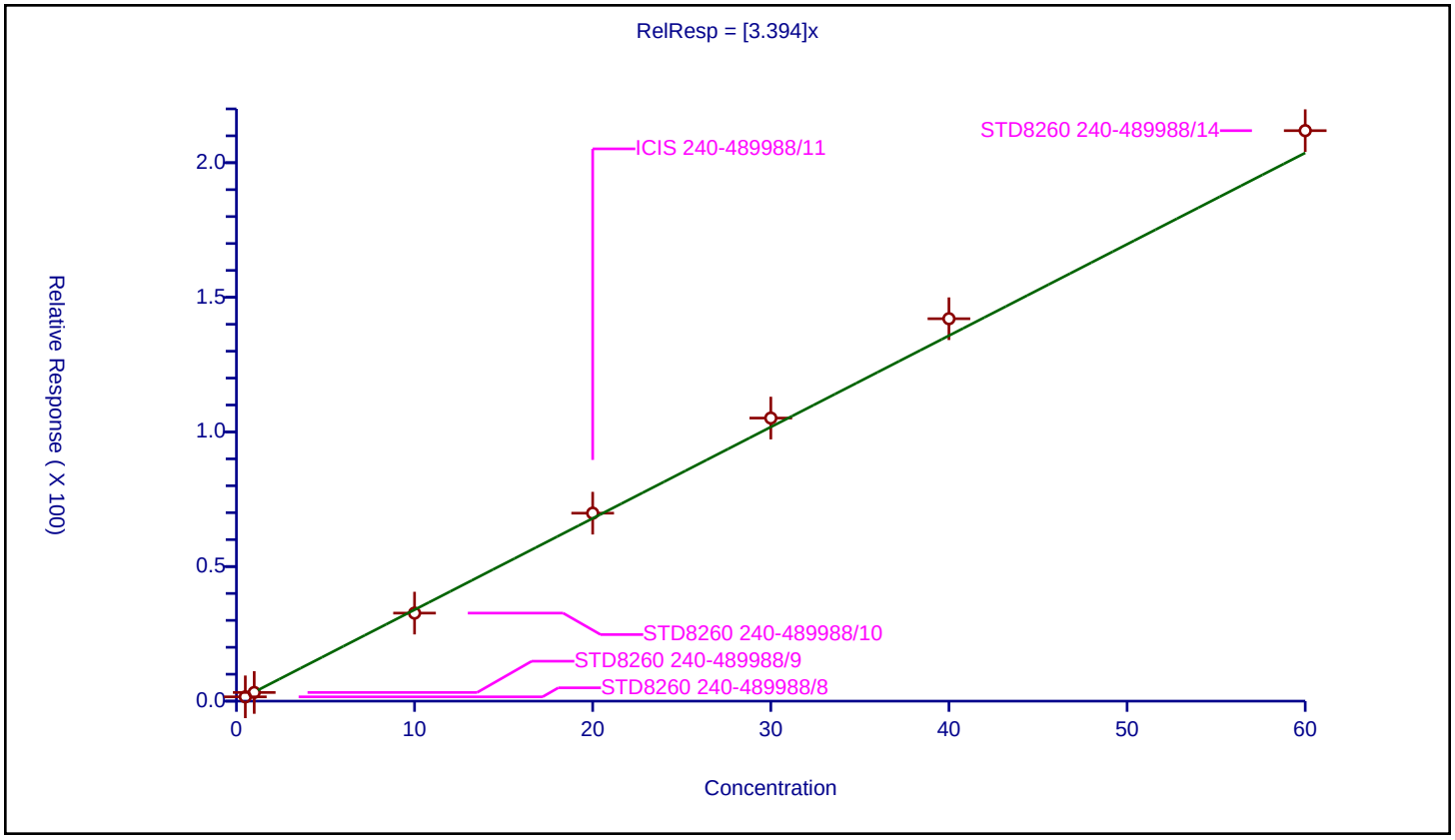
Curve Coefficients

Intercept:	0
Slope:	3.394

Error Coefficients

Standard Error:	2750000
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 240-489988/8	0.5	1.59292	20.0	413354.0	3.185841	Y
2	STD8260 240-489988/9	1.0	3.223695	20.0	417949.0	3.223695	Y
3	STD8260 240-489988/10	10.0	32.703858	20.0	455967.0	3.270386	Y
4	ICIS 240-489988/11	20.0	69.823523	20.0	446290.0	3.491176	Y
5	STD8260 240-489988/12	30.0	105.152255	20.0	458607.0	3.505075	Y
6	STD8260 240-489988/13	40.0	142.060026	20.0	462800.0	3.551501	Y
7	STD8260 240-489988/14	60.0	211.921626	20.0	479136.0	3.532027	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

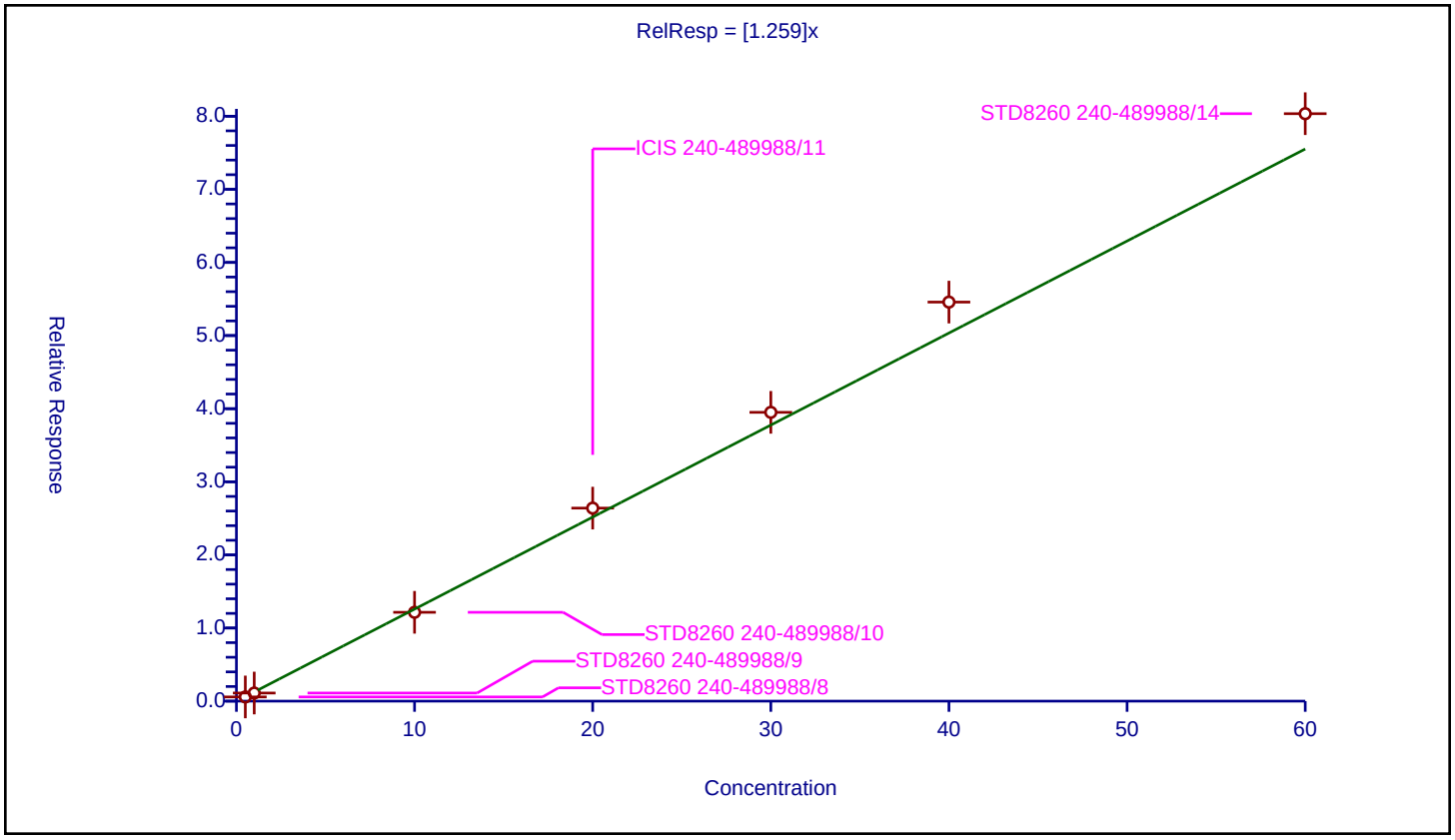
Curve Coefficients

Intercept:	0
Slope:	1.259

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-489988/8	0.5	0.572778	20.0	413354.0	1.145556	Y
2	STD8260 240-489988/9	1.0	1.109418	20.0	417949.0	1.109418	Y
3	STD8260 240-489988/10	10.0	12.150397	20.0	455967.0	1.21504	Y
4	ICIS 240-489988/11	20.0	26.400233	20.0	446290.0	1.320012	Y
5	STD8260 240-489988/12	30.0	39.498394	20.0	458607.0	1.316613	Y
6	STD8260 240-489988/13	40.0	54.576707	20.0	462800.0	1.364418	Y
7	STD8260 240-489988/14	60.0	80.34604	20.0	479136.0	1.339101	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 14:52 Calibration End Date: 06/10/2021 16:45 Calibration ID: 61680

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-489988/18	UX995917.D
Level 2	STDA9 240-489988/19	UX995918.D
Level 3	STDA9 240-489988/20	UX995919.D
Level 4	STDA9 240-489988/21	UX995920.D
Level 5	STDA9 240-489988/22	UX995921.D
Level 6	STDA9 240-489988/23	UX995922.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	0.0593 0.0394	0.0486	0.0376	0.0378	0.0383	Lin1	0.0958	0.0384				3.8			0.9990		0.9900
Diisopropyl ether	0.4558 0.5273	0.4655	0.4966	0.4926	0.5025	Ave		0.4900				5.3		20.0			
2-Chloro-1,3-butadiene	0.6833 0.7652	0.7000	0.7294	0.7422	0.7424	Ave		0.7271				4.2		20.0			
Ethyl-t-butyl ether (ETBE)	1.4706 1.5873	1.4518	1.5105	1.5088	1.5254	Ave		1.5091				3.1		20.0			
Propionitrile	0.0447 0.0495	0.0447	0.0460	0.0471	0.0481	Ave		0.0467				4.1		20.0			
Ethyl acetate	0.3401 0.3329	0.3973	0.3066	0.3239	0.3217	Ave		0.3371				9.4		20.0			
Methacrylonitrile	0.2063 0.2168	0.2047	0.2053	0.2084	0.2104	Ave		0.2087				2.2		20.0			
Isooctane	1.0843 1.4613	1.1285	1.3015	1.3513	1.3577	Ave		1.2808				11.4		20.0			
Tert-amyl-methyl ether (TAME)	1.3745 1.6306	1.4592	1.5235	1.5231	1.5699	Ave		1.5135				5.9		20.0			
n-Butanol	0.0086 0.0115	0.0080	0.0100	0.0106	0.0110	Ave		0.0100				13.8		20.0			
Ethyl acrylate	0.4472 0.4799	0.4702	0.4638	0.4680	0.4668	Ave		0.4660				2.3		20.0			
Methyl methacrylate	0.3882 0.3345	0.3530	0.3145	0.3220	0.3240	Ave		0.3394				8.1		20.0			
2-Nitropropane	0.1535 0.1152	0.1520	0.1175	0.1093	0.1102	Ave		0.1263				16.4		20.0			
n-Butyl acetate	0.7345 0.7226	0.7224	0.6706	0.6711	0.7003	Ave		0.7036				3.9		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 14:52 Calibration End Date: 06/10/2021 16:45 Calibration ID: 61680

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								
1-Chlorohexane	1.0216 1.0593	0.9825	0.9628	0.9937	1.0049	Ave		1.0041				3.3		20.0			
Cyclohexanone	0.0504 0.0302	0.0388	0.0293	0.0274	0.0294	Lin1	0.0958	0.0291				5.6			0.9990		0.9900
Pentachloroethane	0.6331 0.8115	0.7278	0.7425	0.7392	0.6878	Ave		0.7237				8.2		20.0			
1,2,3-Trimethylbenzene	4.5265 5.4044	4.8856	4.9626	4.9838	5.2593	Ave		5.0037				6.1		20.0			
Benzyl chloride	0.4197 0.5663	0.5333	0.4949	0.5056	0.5420	Ave		0.5103				10.0		20.0			
1,3,5-Trichlorobenzene	1.5254 1.8397	1.6223	1.6330	1.6682	1.7807	Ave		1.6782				6.8		20.0			
2-Methylnaphthalene	0.9881 0.9807	1.0500	1.0074	0.9820	0.9998	Ave		1.0013				2.6		20.0			
1-Methylnaphthalene	0.7226 0.6894	0.7711	0.7360	0.7126	0.7019	Ave		0.7223				4.0		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.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 14:52 Calibration End Date: 06/10/2021 16:45 Calibration ID: 61680

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-489988/18	UX995917.D
Level 2	STDA9 240-489988/19	UX995918.D
Level 3	STDA9 240-489988/20	UX995919.D
Level 4	STDA9 240-489988/21	UX995920.D
Level 5	STDA9 240-489988/22	UX995921.D
Level 6	STDA9 240-489988/23	UX995922.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	Lin1	13998 1101487	22755	178799	335940	744756	5.00 600	10.0	100	200	400
Diisopropyl ether	FB	Ave	10769 1472458	21774	235890	438107	977258	0.500 60.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	16142 2136637	32745	346503	660094	1443770	0.500 60.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	34744 4432260	67916	717558	1341899	2966596	0.500 60.0	1.00	10.0	20.0	40.0
Propionitrile	FB	Ave	10563 1382117	20920	218552	419096	934606	5.00 600	10.0	100	200	400
Ethyl acetate	FB	Ave	16072 1858850	37168	291295	576185	1251386	1.00 120	2.00	20.0	40.0	80.0
Methacrylonitrile	FB	Ave	48746 6054598	95769	975256	1853146	4092657	5.00 600	10.0	100	200	400
Isooctane	FB	Ave	25617 4080325	52789	618252	1201784	2640515	0.500 60.0	1.00	10.0	20.0	40.0
Tert-amyl-methyl ether (TAME)	FB	Ave	32474 4552996	68261	723728	1354607	3053119	0.500 60.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Ave	5096 803437	9406	118658	236404	536223	12.5 1500	25.0	250	500	1000
Ethyl acrylate	FB	Ave	10565 1339937	21996	220318	416186	907873	0.500 60.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	18343 1867913	33024	298820	572688	1260196	1.00 120	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	7254 643462	14222	111665	194492	428483	1.00 120	2.00	20.0	40.0	80.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 14:52 Calibration End Date: 06/10/2021 16:45 Calibration ID: 61680

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
n-Butyl acetate	CBNZ d5	Ave	14266 1661181	27271	263413	496214	1128963	0.500 60.0	1.00	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	19842 2435328	37090	378176	734808	1619957	0.500 60.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Lin1	5040 369625	7561	60190	108659	246788	5.00 600	10.0	100	200	400
Pentachloroethane	DCBd 4	Ave	12668 1988614	28364	304769	586473	1156333	1.00 120	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	45285 6621819	95202	1018478	1977085	4420872	0.500 60.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	4199 693857	10391	101559	200580	455613	0.500 60.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	15261 2254088	31613	335146	661768	1496831	0.500 60.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	19770 2403211	40919	413518	779115	1680886	1.00 120	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	14459 1689303	30053	302112	565345	1180063	1.00 120	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.: 240-150601-1 Analy Batch No.: 489988

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2021 14:52 Calibration End Date: 06/10/2021 16:45 Calibration ID: 61680

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-489988/18	UX995917.D
Level 2	STDA9 240-489988/19	UX995918.D
Level 3	STDA9 240-489988/20	UX995919.D
Level 4	STDA9 240-489988/21	UX995920.D
Level 5	STDA9 240-489988/22	UX995921.D
Level 6	STDA9 240-489988/23	UX995922.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
Acetonitrile	4.4						50					
Cyclohexanone	7.1						50					

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995917.D
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Jun-2021 14:52:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-018
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:44:06 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 16:54:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.877	0.000	99	945010	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.575	0.000	85	776881	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.812	-0.001	96	400176	20.0	20.0	
27 Acetonitrile	41	3.629	3.605	0.024	97	13998	5.00	5.22	
38 Isopropyl ether	87	4.445	4.445	0.000	91	10769	0.5000	0.4651	
39 2-Chloro-1,3-butadiene	53	4.469	4.469	0.000	90	16142	0.5000	0.4699	
40 Tert-butyl ethyl ether	59	4.753	4.753	0.000	95	34744	0.5000	0.4873	
45 Propionitrile	54	4.930	4.930	0.000	80	10563	5.00	4.79	
44 Ethyl acetate	43	4.942	4.930	0.012	98	16072	1.00	1.01	
46 Methacrylonitrile	41	5.061	5.060	0.001	91	48746	5.00	4.94	
163 Isooctane	57	5.711	5.711	0.000	87	25617	0.5000	0.4233	
57 Tert-amyl methyl ether	73	5.723	5.723	0.000	93	32474	0.5000	0.4541	
59 n-Butanol	56	6.090	6.078	0.012	79	5096	12.5	10.8	
61 Ethyl acrylate	55	6.256	6.244	0.012	97	10565	0.5000	0.4798	
64 Methyl methacrylate	41	6.457	6.457	0.000	86	18343	1.00	1.14	
68 2-Nitropropane	41	6.800	6.788	0.012	93	7254	1.00	1.22	
81 n-Butyl acetate	43	7.971	7.971	0.000	95	14266	0.5000	0.5220	
84 1-Chlorohexane	91	8.551	8.551	0.000	90	19842	0.5000	0.5087	
93 Cyclohexanone	55	9.628	9.616	0.012	68	5040	5.00	5.36	
105 Pentachloroethane	167	10.444	10.444	0.000	89	12668	1.00	0.8749	
111 1,2,3-Trimethylbenzene	105	10.882	10.882	0.000	98	45285	0.5000	0.4523	
112 Benzyl chloride	126	10.965	10.965	0.000	97	4199	0.5000	0.4113	
116 1,3,5-Trichlorobenzene	180	12.208	12.196	0.012	94	15261	0.5000	0.4545	
121 2-Methylnaphthalene	142	14.503	14.503	0.000	93	19770	1.00	0.9868	
162 1-Methylnaphthalene	142	14.787	14.787	0.000	91	14459	1.00	1.00	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00394	Amount Added:	0.40	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

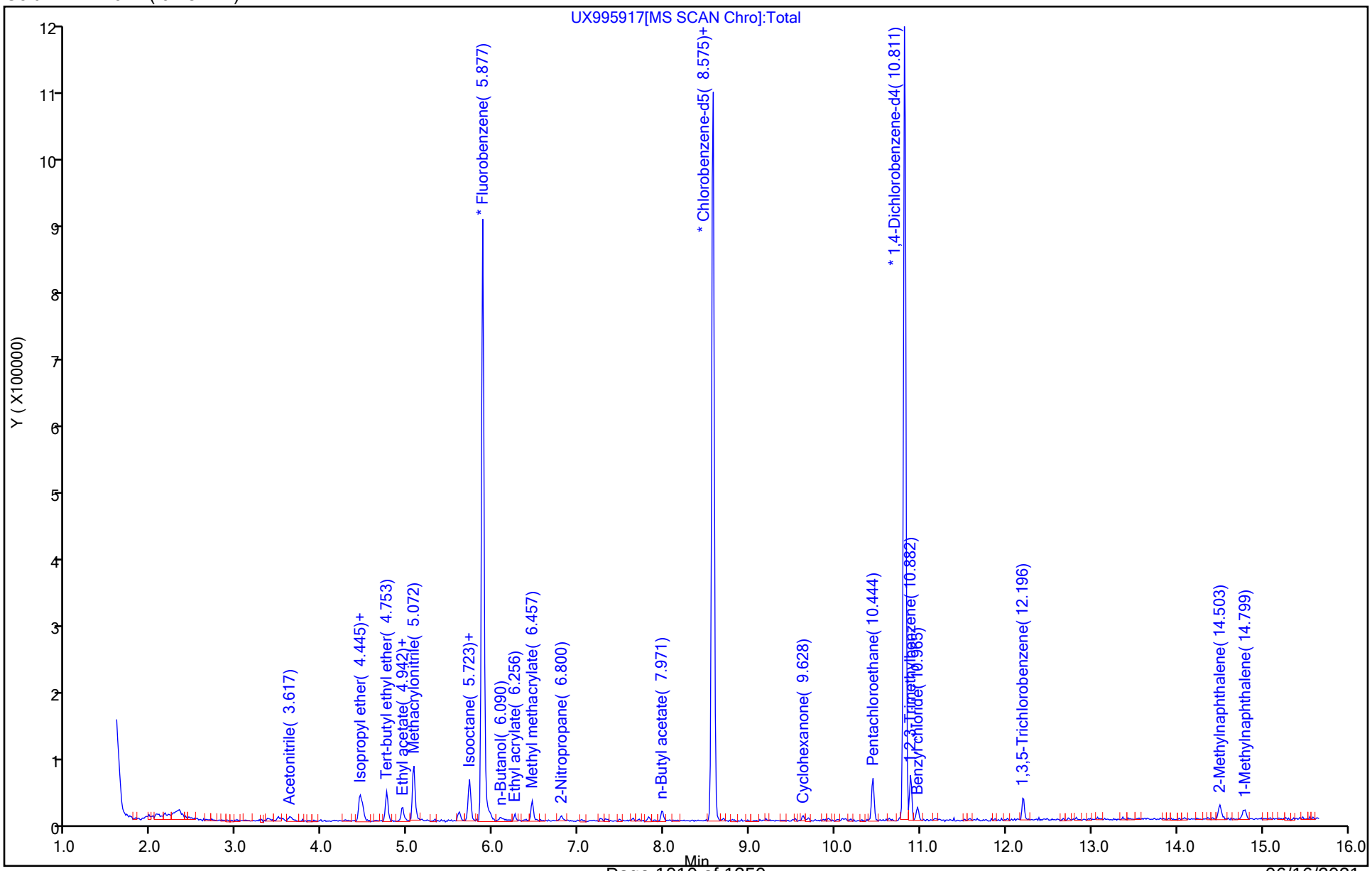
Report Date: 11-Jun-2021 08:44:06 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995917.D

Injection Date:	10-Jun-2021 14:52:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L1			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995918.D
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Jun-2021 15:14:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-019
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:44:08 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 16:54:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.880	5.877	0.003	99	935582	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.566	8.575	-0.009	86	754986	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.815	10.812	0.003	95	389723	20.0	20.0	
27 Acetonitrile	41	3.608	3.605	0.003	99	22755	10.0	10.2	
38 Isopropyl ether	87	4.437	4.445	-0.008	89	21774	1.00	0.9498	
39 2-Chloro-1,3-butadiene	53	4.472	4.469	0.003	91	32745	1.00	0.9628	
40 Tert-butyl ethyl ether	59	4.756	4.753	0.003	95	67916	1.00	0.9621	
45 Propionitrile	54	4.934	4.930	0.004	78	20920	10.0	9.58	
44 Ethyl acetate	43	4.934	4.930	0.004	97	37168	2.00	2.36	
46 Methacrylonitrile	41	5.064	5.060	0.004	89	95769	10.0	9.81	
163 Isooctane	57	5.715	5.711	0.004	96	52789	1.00	0.8811	
57 Tert-amyl methyl ether	73	5.726	5.723	0.003	98	68261	1.00	0.9642	
59 n-Butanol	56	6.093	6.078	0.015	89	9406	25.0	20.2	
61 Ethyl acrylate	55	6.247	6.244	0.003	98	21996	1.00	1.01	
64 Methyl methacrylate	41	6.448	6.457	-0.009	83	33024	2.00	2.08	
68 2-Nitropropane	41	6.803	6.788	0.015	97	14222	2.00	2.41	
81 n-Butyl acetate	43	7.975	7.971	0.004	95	27271	1.00	1.03	
84 1-Chlorohexane	91	8.554	8.551	0.003	95	37090	1.00	0.9785	
93 Cyclohexanone	55	9.619	9.616	0.003	81	7561	10.0	10.0	
105 Pentachloroethane	167	10.448	10.444	0.004	89	28364	2.00	2.01	
111 1,2,3-Trimethylbenzene	105	10.886	10.882	0.004	97	95202	1.00	0.9764	
112 Benzyl chloride	126	10.968	10.965	0.003	97	10391	1.00	1.04	
116 1,3,5-Trichlorobenzene	180	12.199	12.196	0.003	96	31613	1.00	0.9667	
121 2-Methylnaphthalene	142	14.495	14.503	-0.008	93	40919	2.00	2.10	
162 1-Methylnaphthalene	142	14.790	14.787	0.003	94	30053	2.00	2.14	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00394	Amount Added:	0.80	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

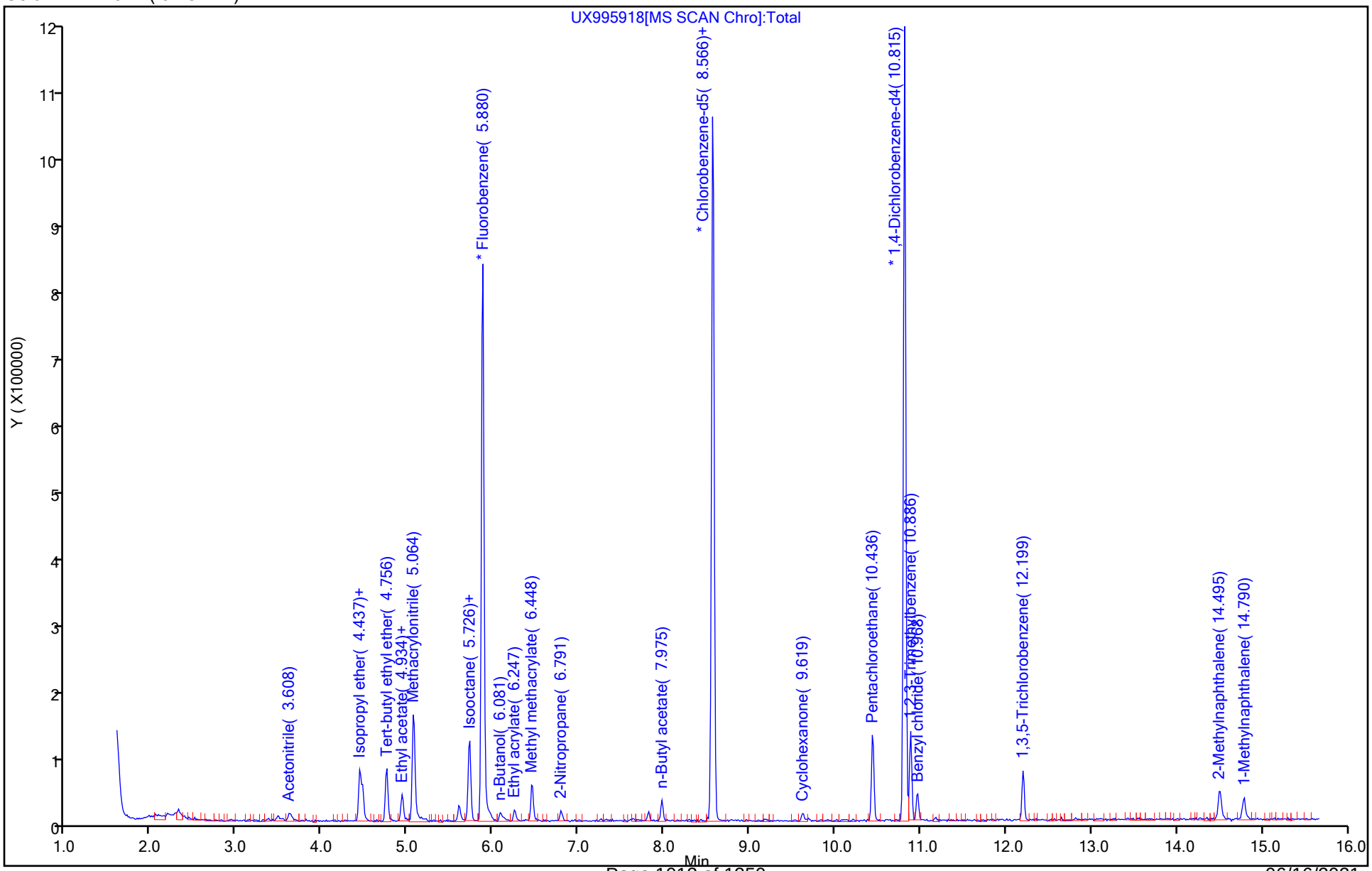
Report Date: 11-Jun-2021 08:44:08 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995918.D

Injection Date:	10-Jun-2021 15:14:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L2			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995919.D
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Jun-2021 15:37:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-020
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:44:10 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 16:54:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.880	5.877	0.003	99	950073	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.578	8.575	0.003	85	785562	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.812	0.002	94	410461	20.0	20.0	
27 Acetonitrile	41	3.608	3.605	0.003	100	178799	100.0	95.5	
38 Isopropyl ether	87	4.436	4.445	-0.009	92	235890	10.0	10.1	
39 2-Chloro-1,3-butadiene	53	4.472	4.469	0.003	91	346503	10.0	10.0	
40 Tert-butyl ethyl ether	59	4.756	4.753	0.003	95	717558	10.0	10.0	
45 Propionitrile	54	4.933	4.930	0.003	79	218552	100.0	98.5	
44 Ethyl acetate	43	4.933	4.930	0.003	99	291295	20.0	18.2	
46 Methacrylonitrile	41	5.063	5.060	0.003	90	975256	100.0	98.4	
163 Isooctane	57	5.714	5.711	0.003	95	618252	10.0	10.2	
57 Tert-amyl methyl ether	73	5.726	5.723	0.003	98	723728	10.0	10.1	
59 n-Butanol	56	6.081	6.078	0.003	84	118658	250.0	250.5	
61 Ethyl acrylate	55	6.246	6.244	0.002	98	220318	10.0	9.95	
64 Methyl methacrylate	41	6.448	6.457	-0.009	83	298820	20.0	18.5	
68 2-Nitropropane	41	6.791	6.788	0.003	99	111665	20.0	18.6	
81 n-Butyl acetate	43	7.974	7.971	0.003	96	263413	10.0	9.53	
84 1-Chlorohexane	91	8.554	8.551	0.003	92	378176	10.0	9.59	
93 Cyclohexanone	55	9.619	9.616	0.003	91	60190	100.0	97.4	
105 Pentachloroethane	167	10.447	10.444	0.003	92	304769	20.0	20.5	
111 1,2,3-Trimethylbenzene	105	10.885	10.882	0.003	98	1018478	10.0	9.92	
112 Benzyl chloride	126	10.968	10.965	0.003	98	101559	10.0	9.70	
116 1,3,5-Trichlorobenzene	180	12.198	12.196	0.002	97	335146	10.0	9.73	
121 2-Methylnaphthalene	142	14.494	14.503	-0.009	92	413518	20.0	20.1	
162 1-Methylnaphthalene	142	14.778	14.787	-0.009	94	302112	20.0	20.4	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00394	Amount Added:	8.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

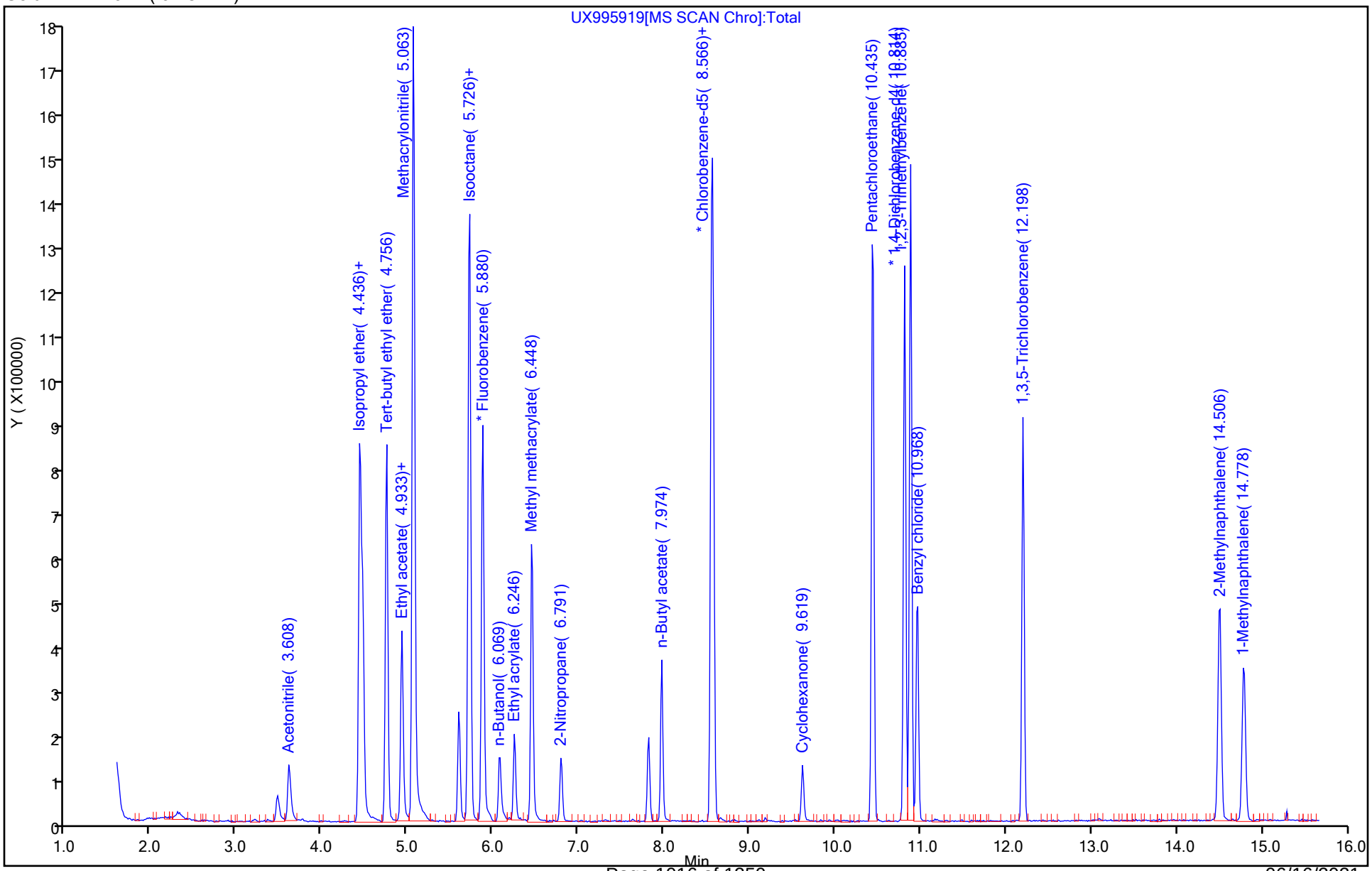
Report Date: 11-Jun-2021 08:44:10 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995919.D

Injection Date:	10-Jun-2021 15:37:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L3			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995920.D
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 10-Jun-2021 16:00:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-021
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:44:12 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 16:55:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.877	0.000	99	889368	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.575	0.000	85	739441	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	95	396700	20.0	20.0	
27 Acetonitrile	41	3.605	3.605	0.000	99	335940	200.0	194.2	
38 Isopropyl ether	87	4.445	4.445	0.000	91	438107	20.0	20.1	
39 2-Chloro-1,3-butadiene	53	4.469	4.469	0.000	92	660094	20.0	20.4	
40 Tert-butyl ethyl ether	59	4.753	4.753	0.000	95	1341899	20.0	20.0	
45 Propionitrile	54	4.930	4.930	0.000	91	419096	200.0	201.9	
44 Ethyl acetate	43	4.930	4.930	0.000	99	576185	40.0	38.4	
46 Methacrylonitrile	41	5.060	5.060	0.000	90	1853146	200.0	199.7	
163 Isooctane	57	5.711	5.711	0.000	96	1201784	20.0	21.1	
57 Tert-amyl methyl ether	73	5.723	5.723	0.000	98	1354607	20.0	20.1	
59 n-Butanol	56	6.078	6.078	0.000	84	236404	500.0	533.1	
61 Ethyl acrylate	55	6.244	6.244	0.000	99	416186	20.0	20.1	
64 Methyl methacrylate	41	6.457	6.457	0.000	85	572688	40.0	37.9	
68 2-Nitropropane	41	6.788	6.788	0.000	98	194492	40.0	34.6	
81 n-Butyl acetate	43	7.971	7.971	0.000	96	496214	20.0	19.1	
84 1-Chlorohexane	91	8.551	8.551	0.000	91	734808	20.0	19.8	
93 Cyclohexanone	55	9.616	9.616	0.000	89	108659	200.0	184.7	
105 Pentachloroethane	167	10.444	10.444	0.000	92	586473	40.0	40.9	
111 1,2,3-Trimethylbenzene	105	10.882	10.882	0.000	98	1977085	20.0	19.9	
112 Benzyl chloride	126	10.965	10.965	0.000	98	200580	20.0	19.8	
116 1,3,5-Trichlorobenzene	180	12.196	12.196	0.000	97	661768	20.0	19.9	
121 2-Methylnaphthalene	142	14.503	14.503	0.000	93	779115	40.0	39.2	
162 1-Methylnaphthalene	142	14.787	14.787	0.000	94	565345	40.0	39.5	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00394	Amount Added: 16.00	Units: uL
vm50is_stk_A_00008	Amount Added: 2.00	Units: uL

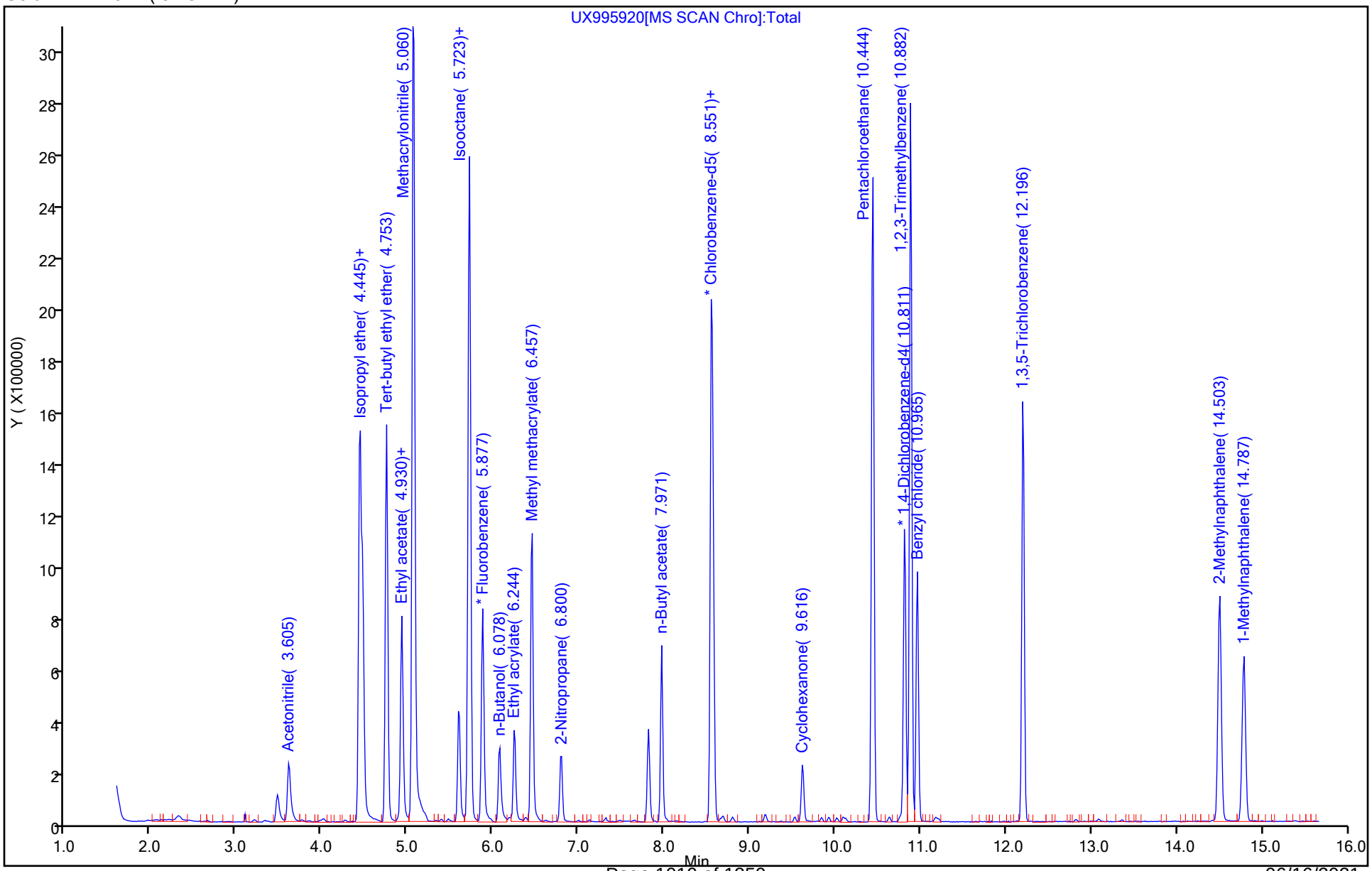
Report Date: 11-Jun-2021 08:44:12 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995920.D

Injection Date:	10-Jun-2021 16:00:30	Instrument ID:	A3UX9	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_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995921.D
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 10-Jun-2021 16:22:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-022
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:44:14 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 16:57:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.879	5.877	0.002	99	972400	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.577	8.575	0.001	86	806044	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.813	10.811	0.002	95	420292	20.0	20.0	
27 Acetonitrile	41	3.607	3.605	0.002	99	744756	400.0	396.3	
38 Isopropyl ether	87	4.435	4.445	-0.010	92	977258	40.0	41.0	
39 2-Chloro-1,3-butadiene	53	4.471	4.469	0.002	92	1443770	40.0	40.8	
40 Tert-butyl ethyl ether	59	4.755	4.753	0.001	95	2966596	40.0	40.4	
45 Propionitrile	54	4.932	4.930	0.002	80	934606	400.0	411.7	
44 Ethyl acetate	43	4.932	4.930	0.002	98	1251386	80.0	76.4	
46 Methacrylonitrile	41	5.062	5.060	0.002	90	4092657	400.0	403.4	
163 Isooctane	57	5.713	5.711	0.002	95	2640515	40.0	42.4	
57 Tert-amyl methyl ether	73	5.725	5.723	0.002	98	3053119	40.0	41.5	
59 n-Butanol	56	6.068	6.078	-0.010	84	536223	1000.0	1106.0	
61 Ethyl acrylate	55	6.245	6.244	0.001	99	907873	40.0	40.1	
64 Methyl methacrylate	41	6.447	6.457	-0.010	84	1260196	80.0	76.4	
68 2-Nitropropane	41	6.790	6.788	0.002	98	428483	80.0	69.8	
81 n-Butyl acetate	43	7.973	7.971	0.002	97	1128963	40.0	39.8	
84 1-Chlorohexane	91	8.553	8.551	0.002	92	1619957	40.0	40.0	
93 Cyclohexanone	55	9.618	9.616	0.002	90	246788	400.0	399.7	
105 Pentachloroethane	167	10.446	10.444	0.002	93	1156333	80.0	76.0	
111 1,2,3-Trimethylbenzene	105	10.884	10.882	0.002	98	4420872	40.0	42.0	
112 Benzyl chloride	126	10.967	10.965	0.002	98	455613	40.0	42.5	
116 1,3,5-Trichlorobenzene	180	12.197	12.196	0.001	97	1496831	40.0	42.4	
121 2-Methylnaphthalene	142	14.505	14.503	0.002	93	1680886	80.0	79.9	
162 1-Methylnaphthalene	142	14.789	14.787	0.002	93	1180063	80.0	77.7	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00394	Amount Added: 32.00	Units: uL
vm50is_stk_A_00008	Amount Added: 2.00	Units: uL

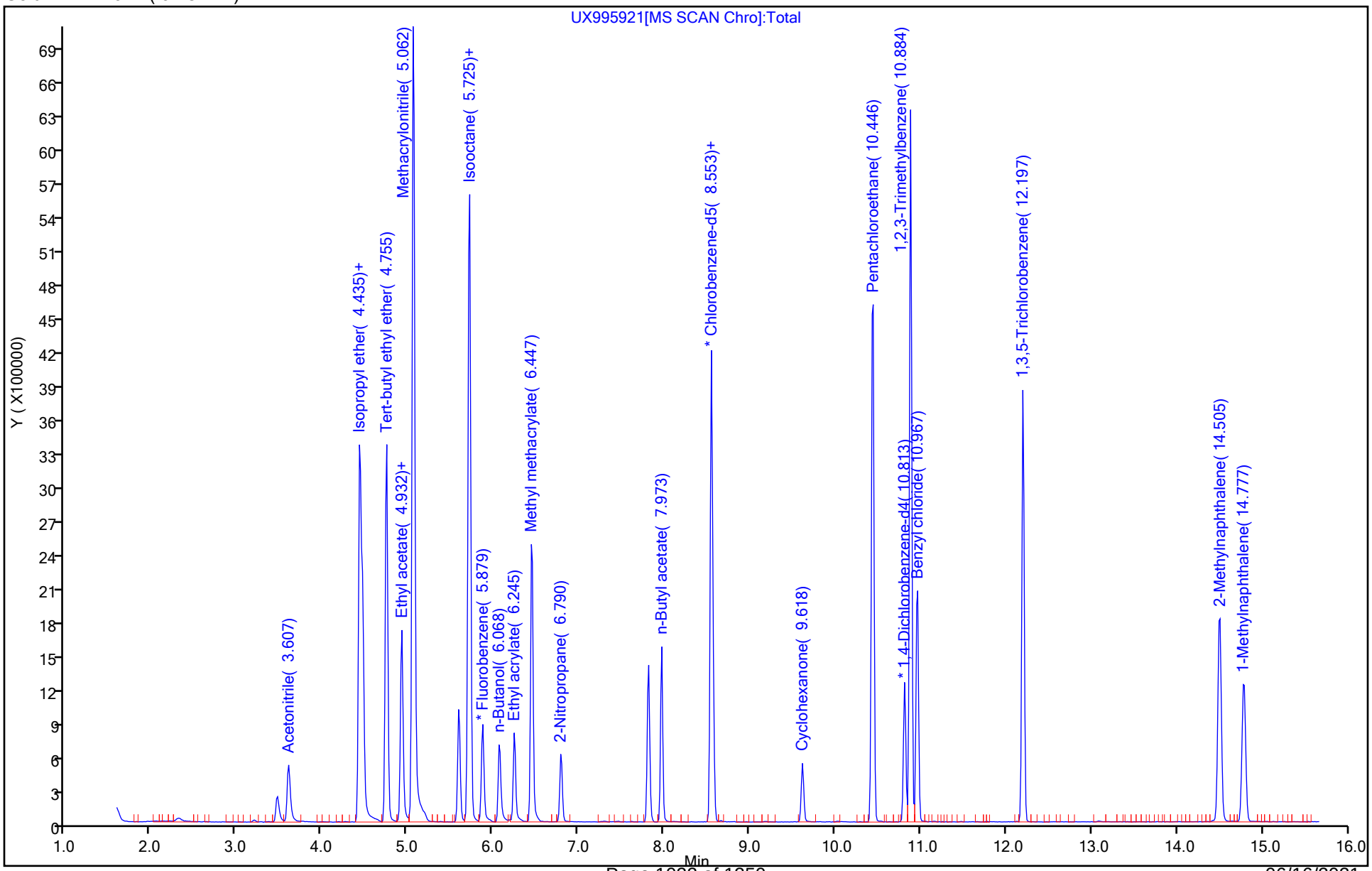
Report Date: 11-Jun-2021 08:44:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995921.D

Injection Date:	10-Jun-2021 16:22:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L5			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Jun-2021 16:45:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-023
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:44:16 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 11-Jun-2021 08:35:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.876	5.877	-0.001	99	930764	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.575	-0.001	88	766332	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.822	10.811	0.011	94	408422	20.0	20.0	
27 Acetonitrile	41	3.604	3.605	-0.001	99	1101487	600.0	613.7	
38 Isopropyl ether	87	4.444	4.445	-0.001	91	1472458	60.0	64.6	
39 2-Chloro-1,3-butadiene	53	4.468	4.469	-0.001	91	2136637	60.0	63.1	
40 Tert-butyl ethyl ether	59	4.752	4.753	-0.001	95	4432260	60.0	63.1	
45 Propionitrile	54	4.929	4.930	-0.001	81	1382117	600.0	636.1	
44 Ethyl acetate	43	4.929	4.930	-0.001	99	1858850	120.0	118.5	
46 Methacrylonitrile	41	5.071	5.060	0.011	90	6054598	600.0	623.5	
163 Isooctane	57	5.710	5.711	-0.001	96	4080325	60.0	68.5	
57 Tert-amyl methyl ether	73	5.722	5.723	-0.001	98	4552996	60.0	64.6	
59 n-Butanol	56	6.077	6.078	-0.001	85	803437	1500.0	1731.2	
61 Ethyl acrylate	55	6.243	6.244	-0.001	99	1339937	60.0	61.8	
64 Methyl methacrylate	41	6.456	6.457	-0.001	83	1867913	120.0	118.3	
68 2-Nitropropane	41	6.799	6.788	0.011	98	643462	120.0	109.5	
81 n-Butyl acetate	43	7.970	7.971	-0.001	96	1661181	60.0	61.6	
84 1-Chlorohexane	91	8.550	8.551	-0.001	92	2435328	60.0	63.3	
93 Cyclohexanone	55	9.615	9.616	-0.001	90	369625	600.0	617.8	
105 Pentachloroethane	167	10.443	10.444	-0.001	93	1988614	120.0	134.6	
111 1,2,3-Trimethylbenzene	105	10.881	10.882	-0.001	97	6621819	60.0	64.8	
112 Benzyl chloride	126	10.964	10.965	-0.001	98	693857	60.0	66.6	
116 1,3,5-Trichlorobenzene	180	12.206	12.196	0.010	97	2254088	60.0	65.8	
121 2-Methylnaphthalene	142	14.502	14.503	-0.001	93	2403211	120.0	117.5	
162 1-Methylnaphthalene	142	14.786	14.787	-0.001	94	1689303	120.0	114.5	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00394	Amount Added: 48.00	Units: uL
vm50is_stk_A_00008	Amount Added: 2.00	Units: uL

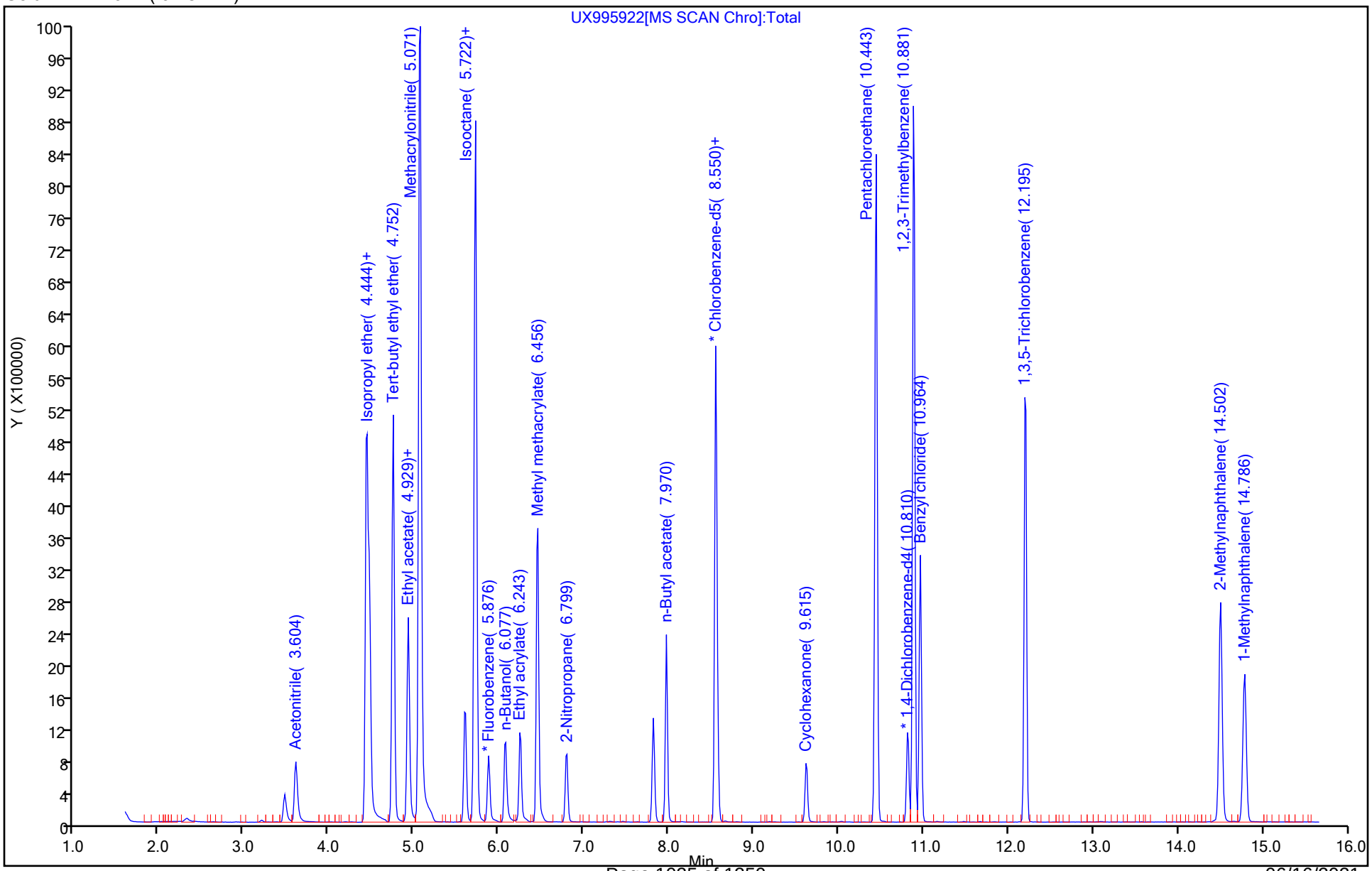
Report Date: 11-Jun-2021 08:44:16 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Injection Date:	10-Jun-2021 16:45:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L6			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Calibration / Acetonitrile

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

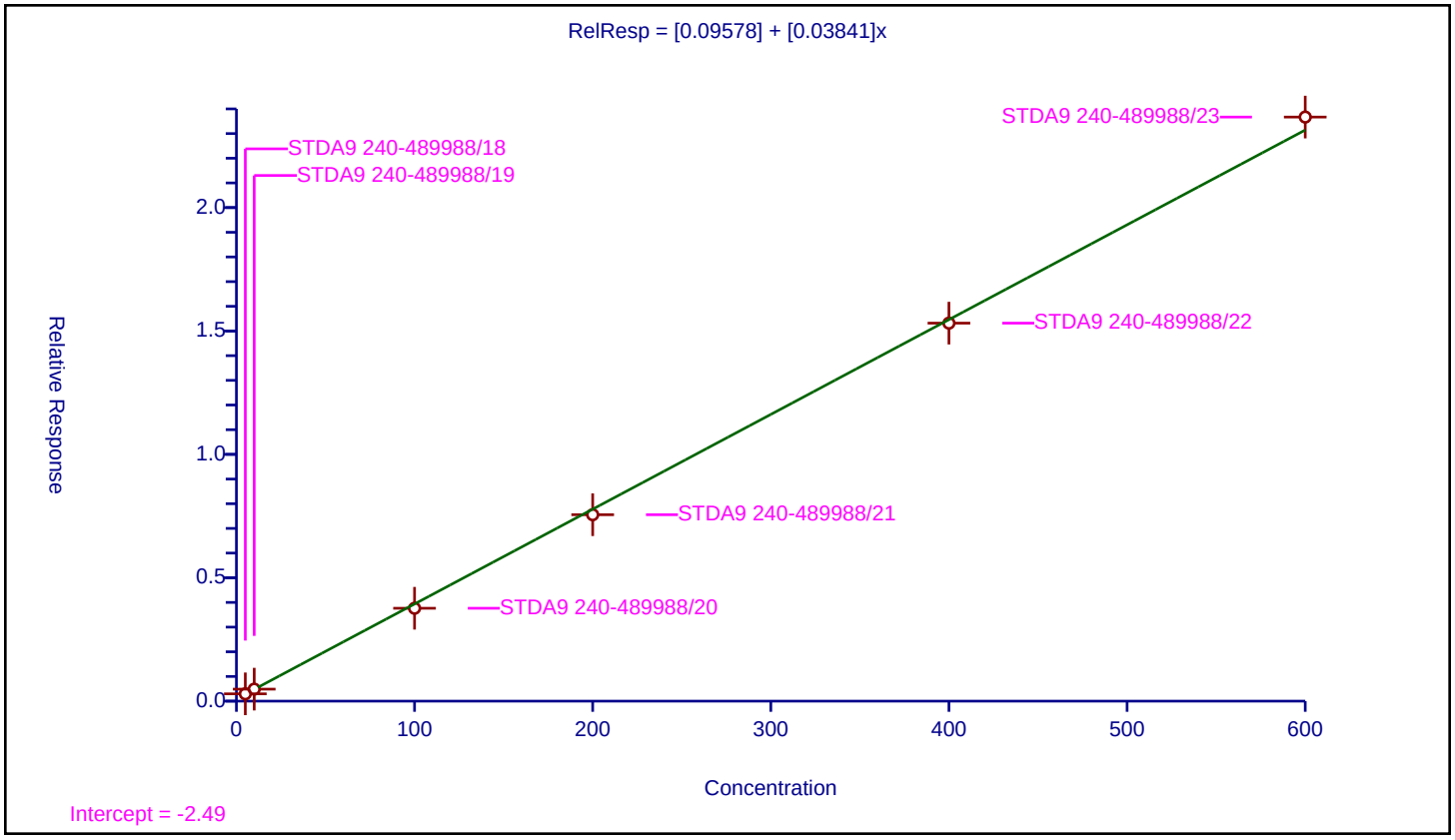
Curve Coefficients

Intercept:	0.09578
Slope:	0.03841

Error Coefficients

Standard Error:	692000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	5.0	0.296251	20.0	945010.0	0.05925	Y
2	STDA9 240-489988/19	10.0	0.486435	20.0	935582.0	0.048644	Y
3	STDA9 240-489988/20	100.0	3.7639	20.0	950073.0	0.037639	Y
4	STDA9 240-489988/21	200.0	7.554578	20.0	889368.0	0.037773	Y
5	STDA9 240-489988/22	400.0	15.317894	20.0	972400.0	0.038295	Y
6	STDA9 240-489988/23	600.0	23.668449	20.0	930764.0	0.039447	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

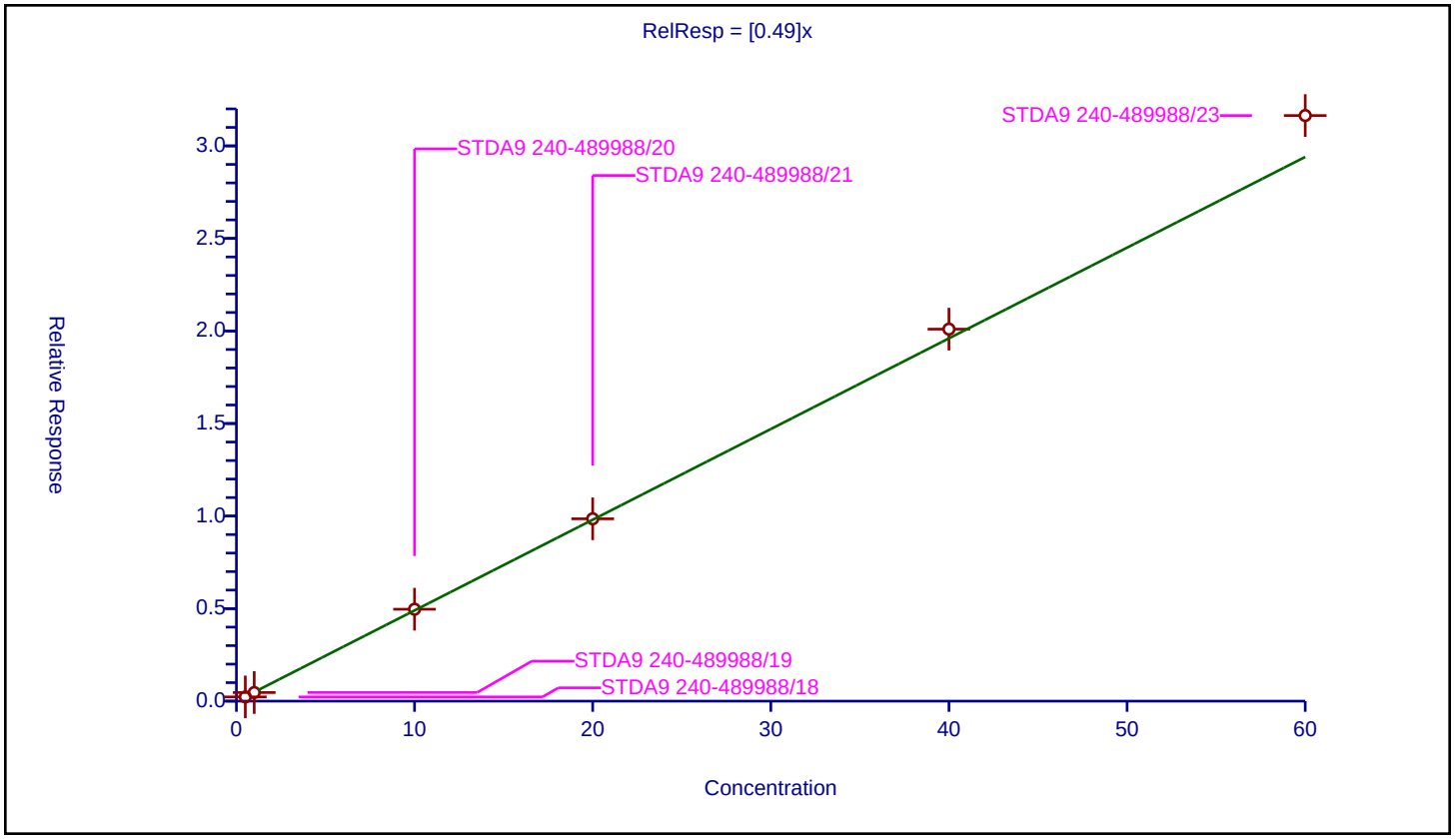
Curve Coefficients

Intercept:	0
Slope:	0.49

Error Coefficients

Standard Error:	821000
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	STDA9 240-489988/18	0.5	0.227913	20.0	945010.0	0.455826	Y
2	STDA9 240-489988/19	1.0	0.465464	20.0	935582.0	0.465464	Y
3	STDA9 240-489988/20	10.0	4.965724	20.0	950073.0	0.496572	Y
4	STDA9 240-489988/21	20.0	9.852097	20.0	889368.0	0.492605	Y
5	STDA9 240-489988/22	40.0	20.099918	20.0	972400.0	0.502498	Y
6	STDA9 240-489988/23	60.0	31.639771	20.0	930764.0	0.52733	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

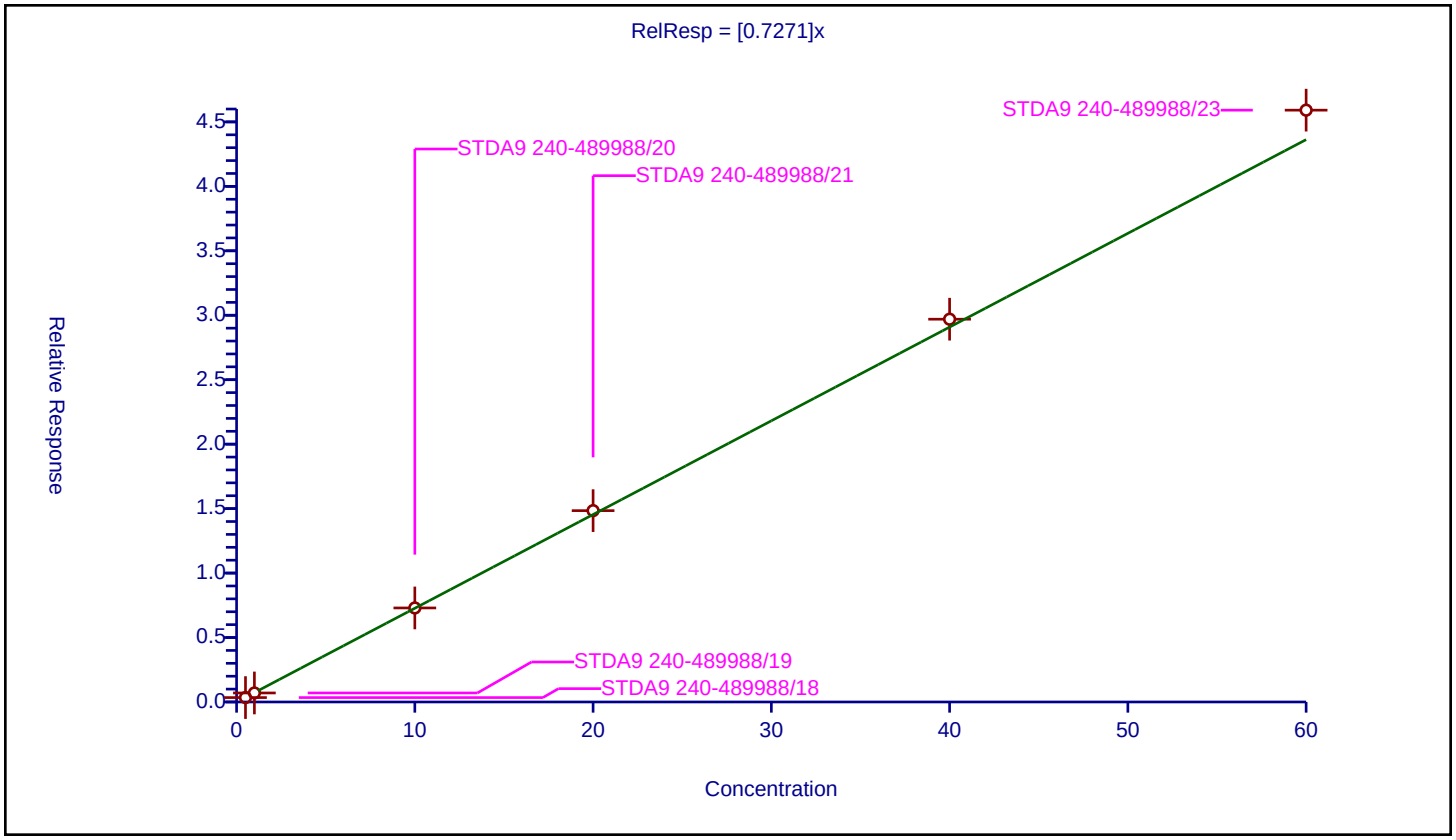
Curve Coefficients

Intercept:	0
Slope:	0.7271

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	0.341626	20.0	945010.0	0.683252	Y
2	STDA9 240-489988/19	1.0	0.699992	20.0	935582.0	0.699992	Y
3	STDA9 240-489988/20	10.0	7.294239	20.0	950073.0	0.729424	Y
4	STDA9 240-489988/21	20.0	14.844114	20.0	889368.0	0.742206	Y
5	STDA9 240-489988/22	40.0	29.694981	20.0	972400.0	0.742375	Y
6	STDA9 240-489988/23	60.0	45.911466	20.0	930764.0	0.765191	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

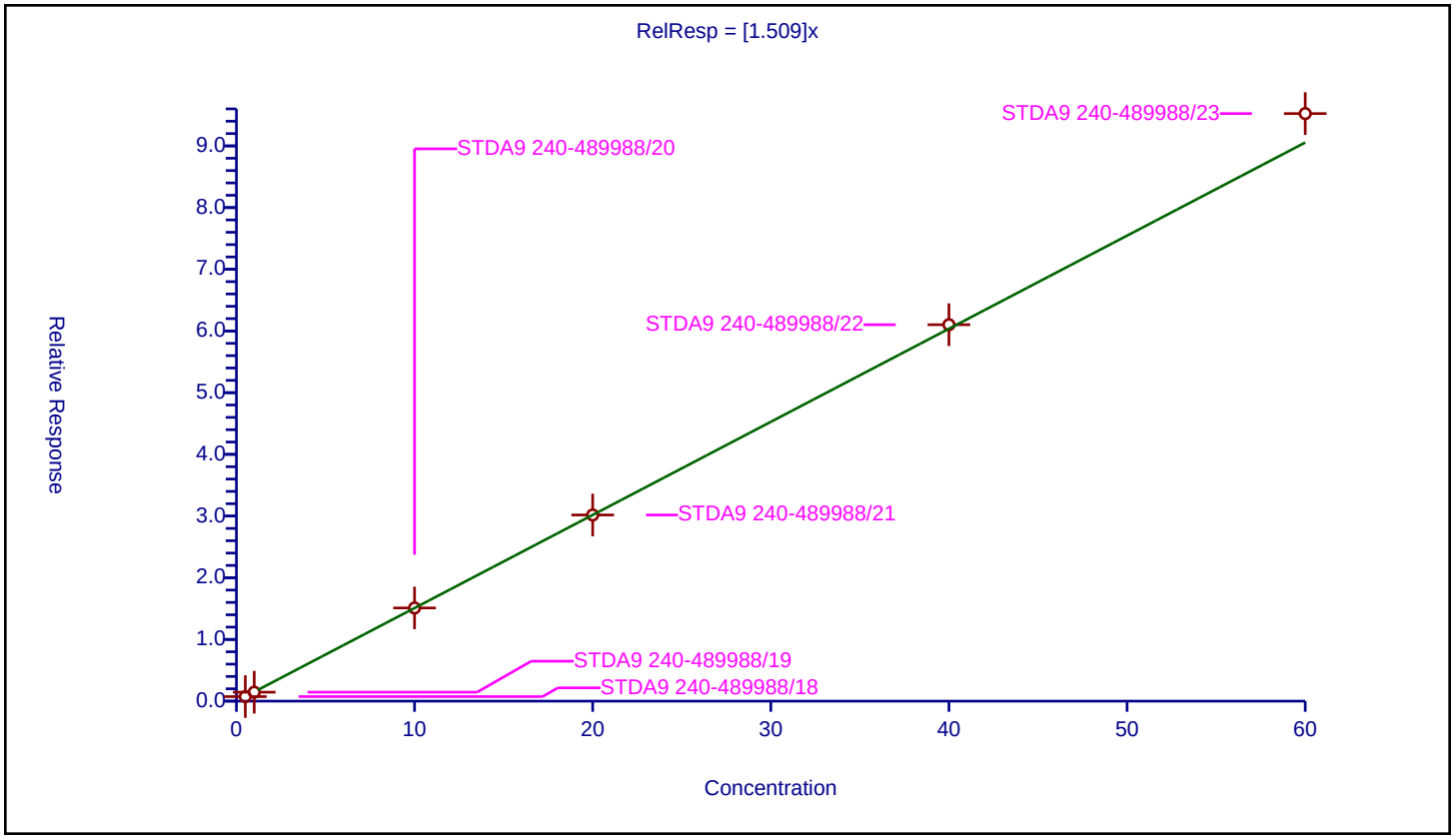
Curve Coefficients

Intercept:	0
Slope:	1.509

Error Coefficients

Standard Error:	2480000
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	STDA9 240-489988/18	0.5	0.735315	20.0	945010.0	1.47063	Y
2	STDA9 240-489988/19	1.0	1.451845	20.0	935582.0	1.451845	Y
3	STDA9 240-489988/20	10.0	15.105323	20.0	950073.0	1.510532	Y
4	STDA9 240-489988/21	20.0	30.176462	20.0	889368.0	1.508823	Y
5	STDA9 240-489988/22	40.0	61.015961	20.0	972400.0	1.525399	Y
6	STDA9 240-489988/23	60.0	95.23918	20.0	930764.0	1.58732	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

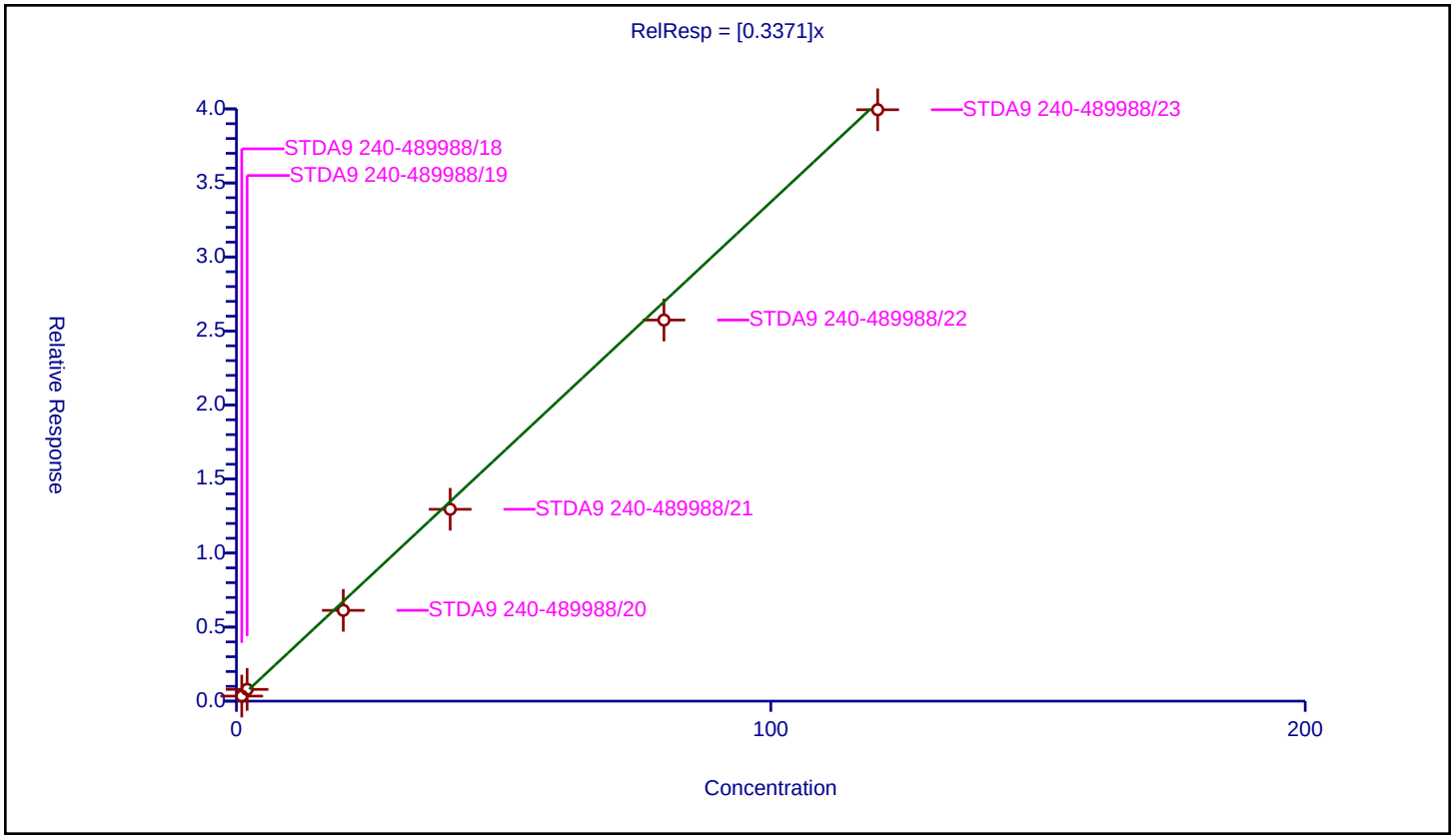
Curve Coefficients

Intercept:	0
Slope:	0.3371

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	1.0	0.340145	20.0	945010.0	0.340145	Y
2	STDA9 240-489988/19	2.0	0.794543	20.0	935582.0	0.397271	Y
3	STDA9 240-489988/20	20.0	6.132055	20.0	950073.0	0.306603	Y
4	STDA9 240-489988/21	40.0	12.957179	20.0	889368.0	0.323929	Y
5	STDA9 240-489988/22	80.0	25.738091	20.0	972400.0	0.321726	Y
6	STDA9 240-489988/23	120.0	39.942456	20.0	930764.0	0.332854	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

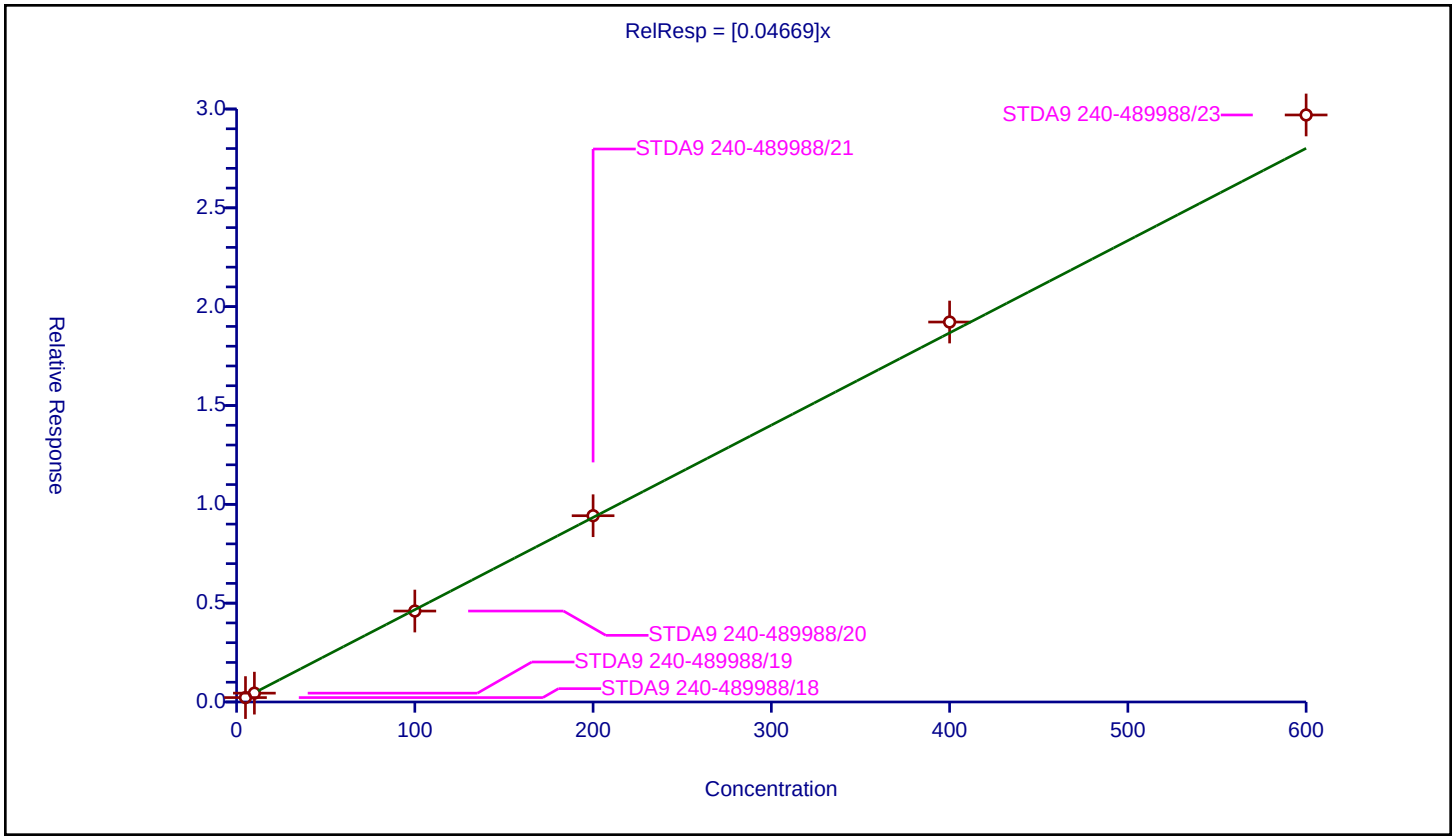
Curve Coefficients

Intercept:	0
Slope:	0.04669

Error Coefficients

Standard Error:	776000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	5.0	0.223553	20.0	945010.0	0.044711	Y
2	STDA9 240-489988/19	10.0	0.447208	20.0	935582.0	0.044721	Y
3	STDA9 240-489988/20	100.0	4.600741	20.0	950073.0	0.046007	Y
4	STDA9 240-489988/21	200.0	9.42458	20.0	889368.0	0.047123	Y
5	STDA9 240-489988/22	400.0	19.222666	20.0	972400.0	0.048057	Y
6	STDA9 240-489988/23	600.0	29.698549	20.0	930764.0	0.049498	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

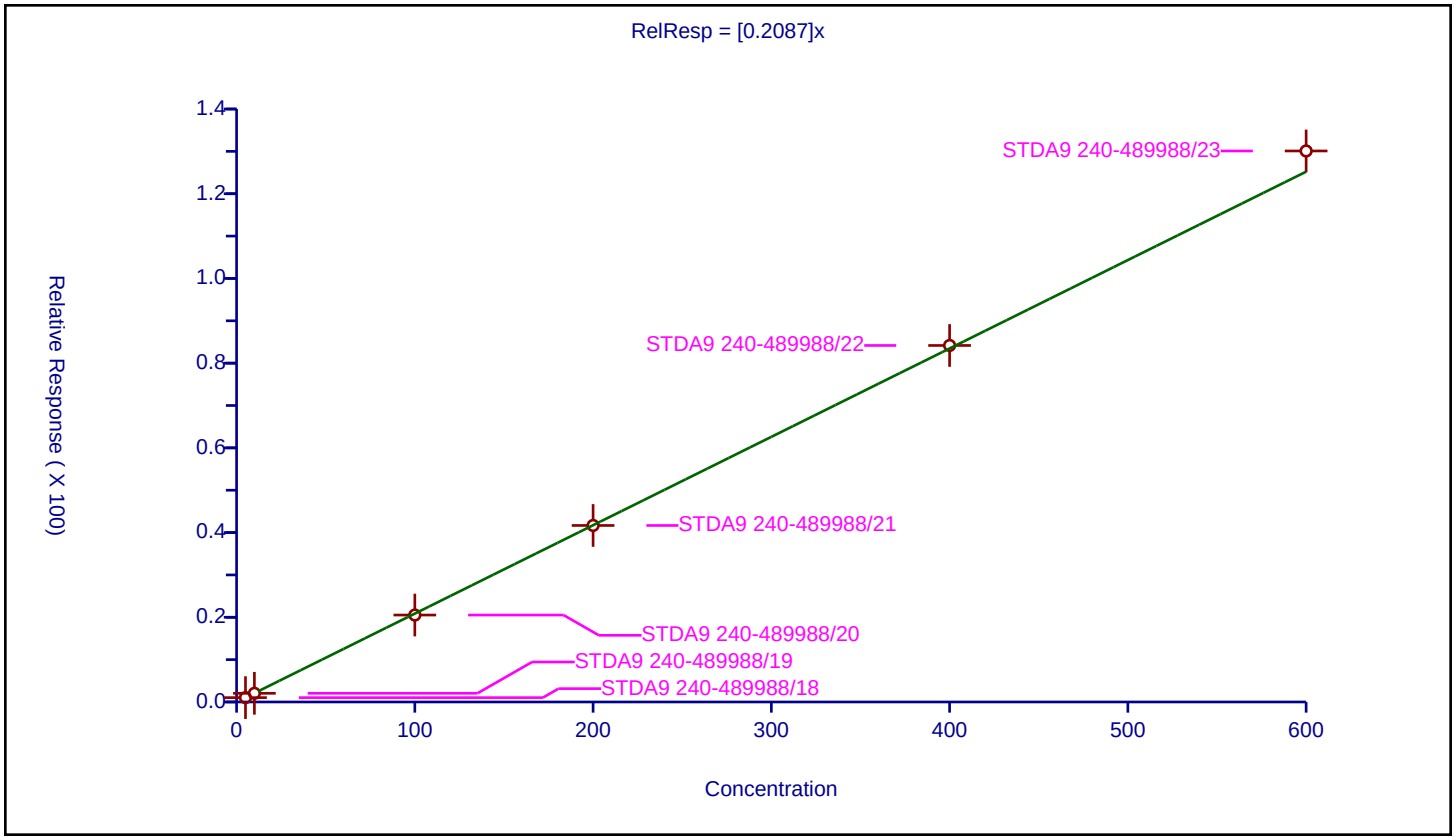
Curve Coefficients

Intercept:	0
Slope:	0.2087

Error Coefficients

Standard Error:	3400000
Relative Standard Error:	2.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	5.0	1.03165	20.0	945010.0	0.20633	Y
2	STDA9 240-489988/19	10.0	2.04726	20.0	935582.0	0.204726	Y
3	STDA9 240-489988/20	100.0	20.530128	20.0	950073.0	0.205301	Y
4	STDA9 240-489988/21	200.0	41.673323	20.0	889368.0	0.208367	Y
5	STDA9 240-489988/22	400.0	84.176409	20.0	972400.0	0.210441	Y
6	STDA9 240-489988/23	600.0	130.099531	20.0	930764.0	0.216833	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

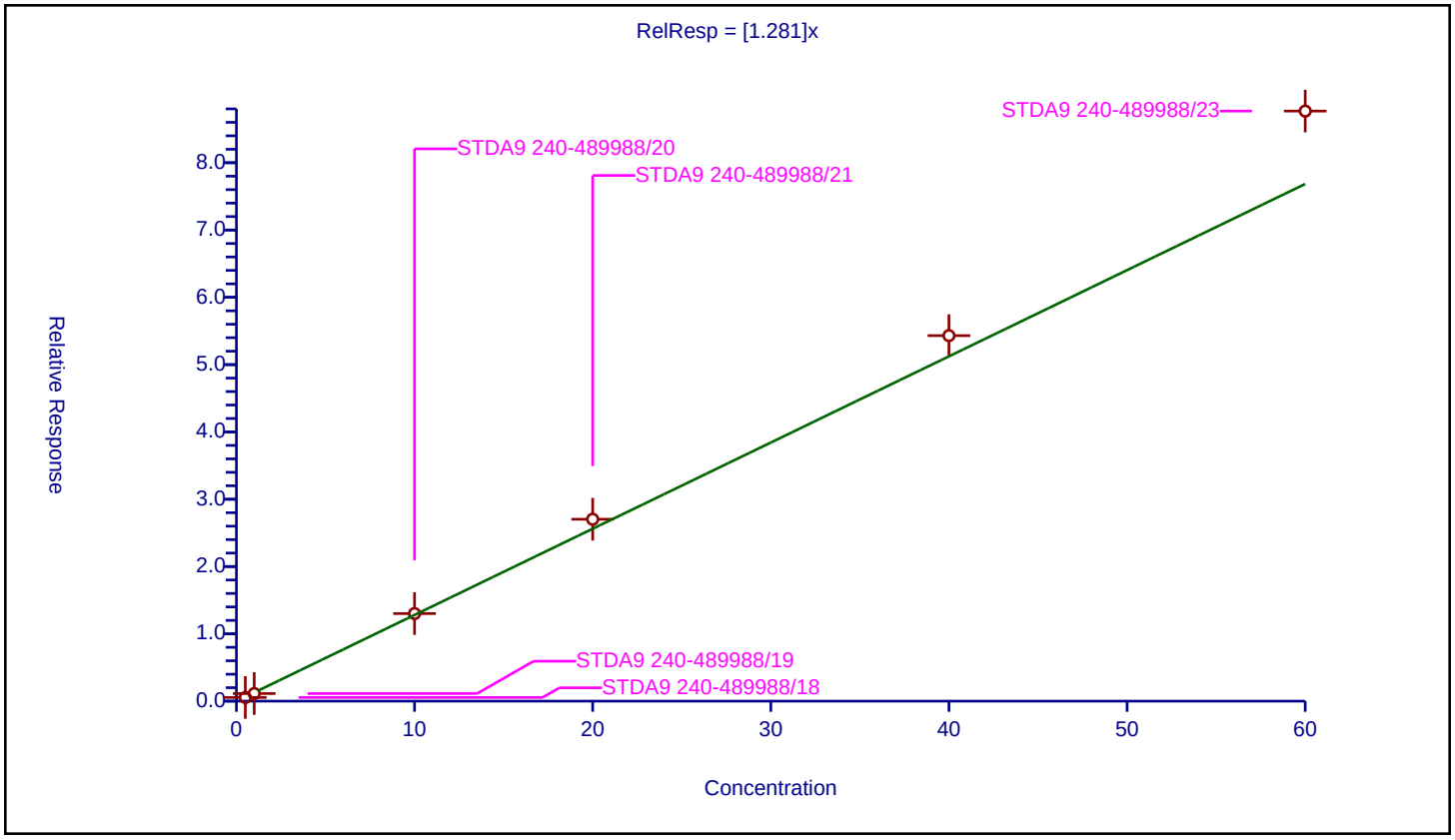
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	11.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	0.542153	20.0	945010.0	1.084306	Y
2	STDA9 240-489988/19	1.0	1.128474	20.0	935582.0	1.128474	Y
3	STDA9 240-489988/20	10.0	13.014831	20.0	950073.0	1.301483	Y
4	STDA9 240-489988/21	20.0	27.025573	20.0	889368.0	1.351279	Y
5	STDA9 240-489988/22	40.0	54.309235	20.0	972400.0	1.357731	Y
6	STDA9 240-489988/23	60.0	87.676898	20.0	930764.0	1.461282	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

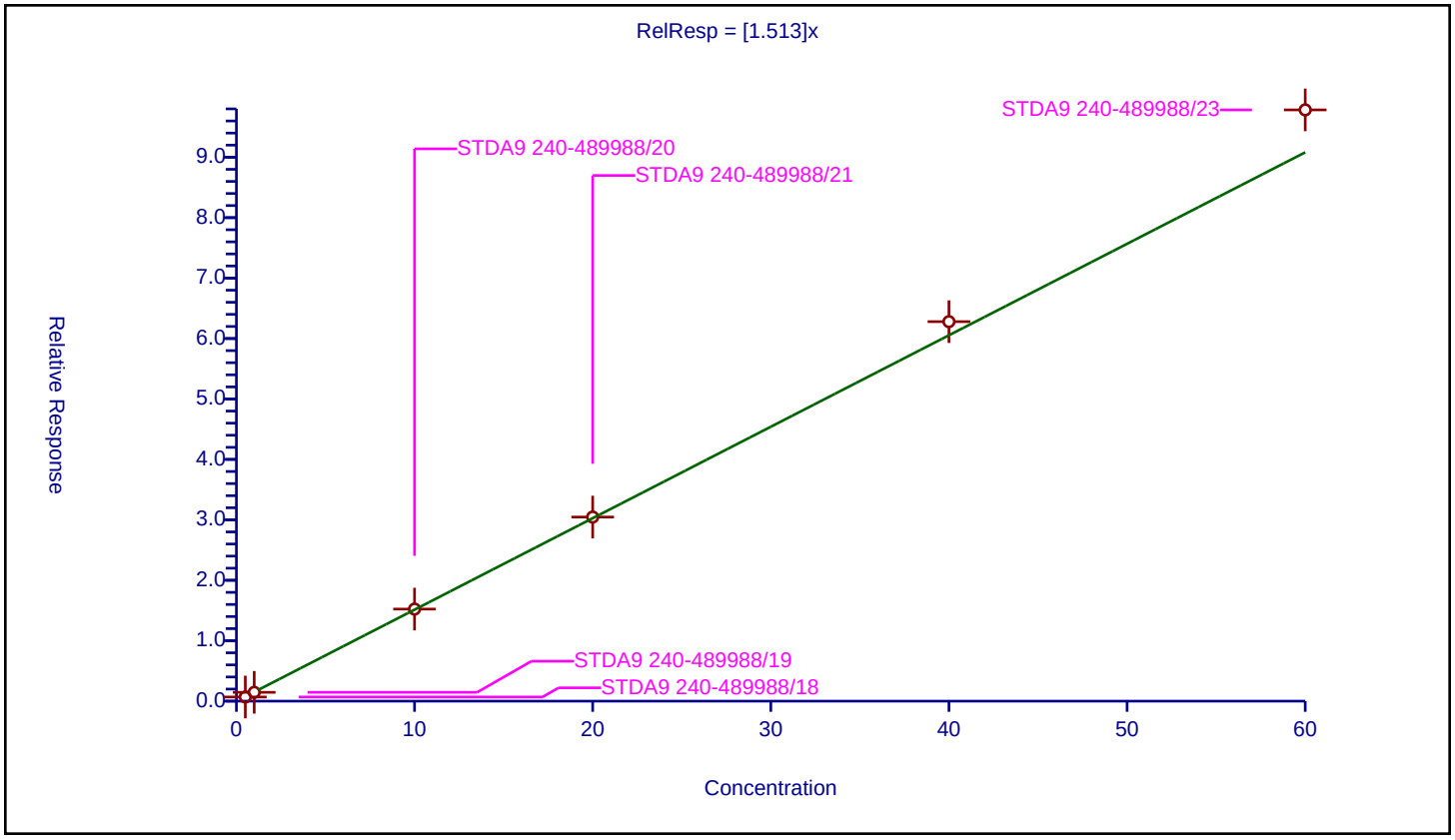
Curve Coefficients

Intercept:	0
Slope:	1.513

Error Coefficients

Standard Error:	2550000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	0.687273	20.0	945010.0	1.374546	Y
2	STDA9 240-489988/19	1.0	1.45922	20.0	935582.0	1.45922	Y
3	STDA9 240-489988/20	10.0	15.235208	20.0	950073.0	1.523521	Y
4	STDA9 240-489988/21	20.0	30.462238	20.0	889368.0	1.523112	Y
5	STDA9 240-489988/22	40.0	62.795537	20.0	972400.0	1.569888	Y
6	STDA9 240-489988/23	60.0	97.833522	20.0	930764.0	1.630559	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

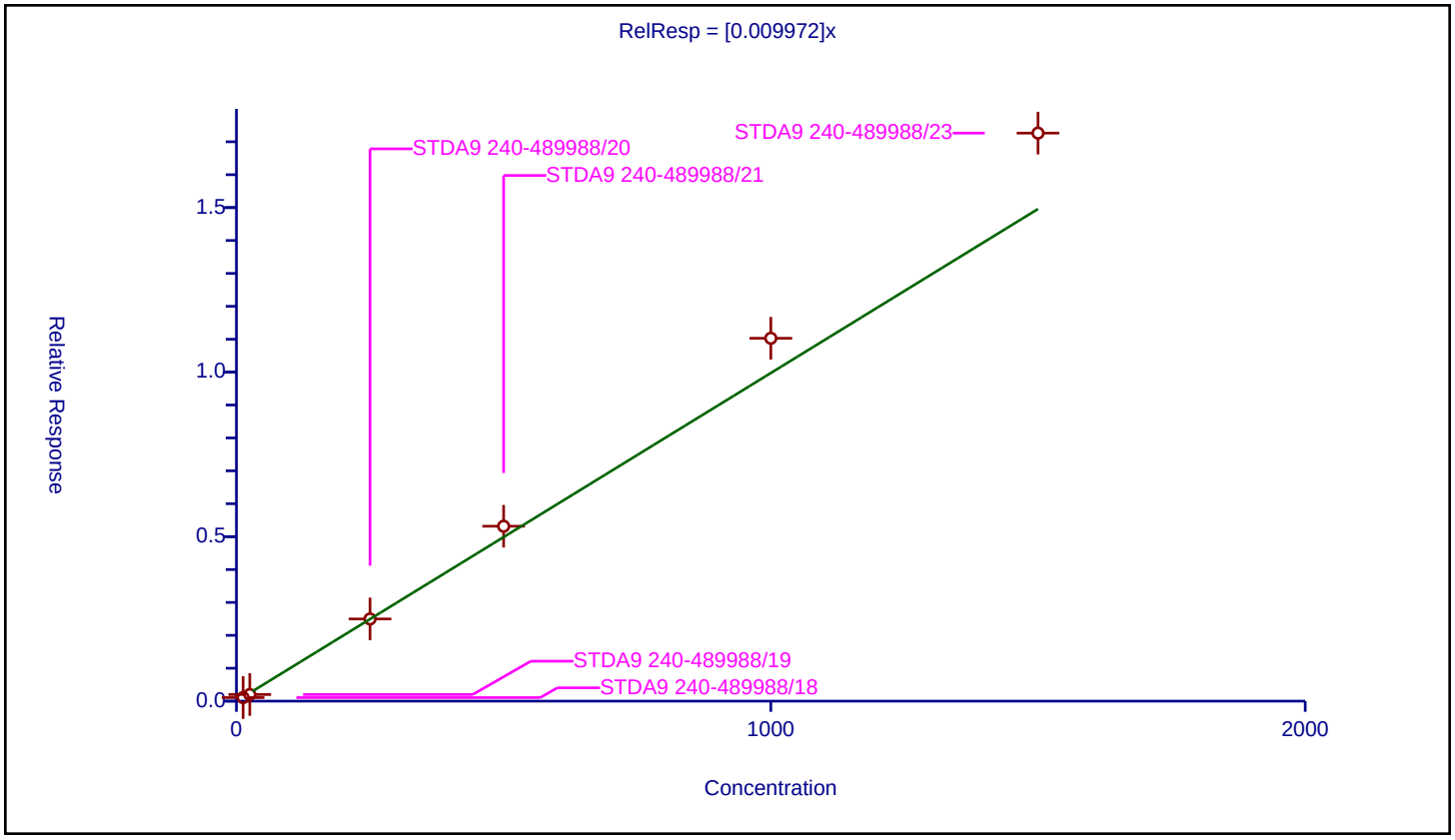
Curve Coefficients

Intercept:	0
Slope:	0.009972

Error Coefficients

Standard Error:	448000
Relative Standard Error:	13.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	12.5	0.107851	20.0	945010.0	0.008628	Y
2	STDA9 240-489988/19	25.0	0.201073	20.0	935582.0	0.008043	Y
3	STDA9 240-489988/20	250.0	2.497871	20.0	950073.0	0.009991	Y
4	STDA9 240-489988/21	500.0	5.316225	20.0	889368.0	0.010632	Y
5	STDA9 240-489988/22	1000.0	11.028856	20.0	972400.0	0.011029	Y
6	STDA9 240-489988/23	1500.0	17.264033	20.0	930764.0	0.011509	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

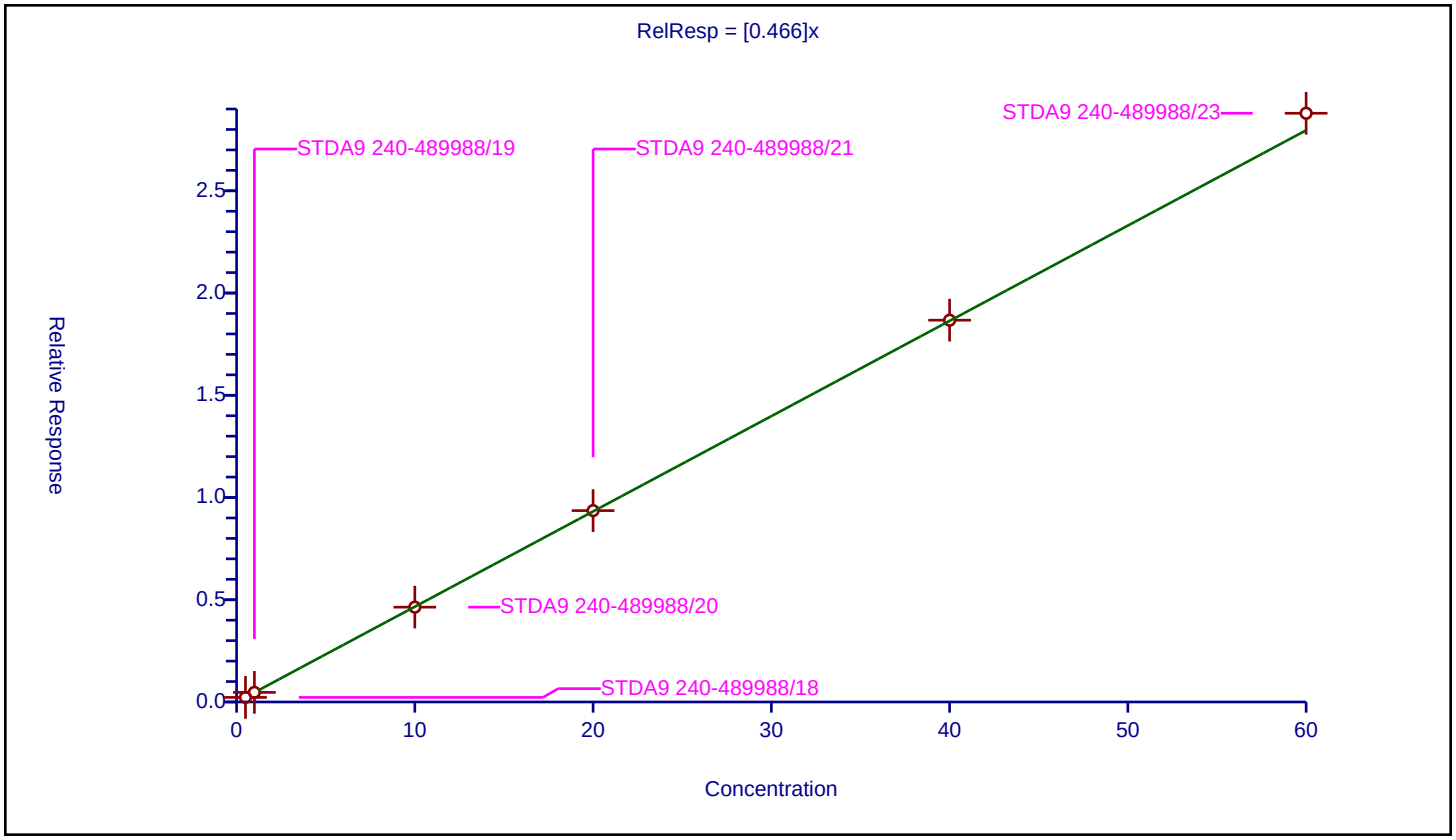
Curve Coefficients

Intercept:	0
Slope:	0.466

Error Coefficients

Standard Error:	754000
Relative Standard Error:	2.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	0.223596	20.0	945010.0	0.447191	Y
2	STDA9 240-489988/19	1.0	0.47021	20.0	935582.0	0.47021	Y
3	STDA9 240-489988/20	10.0	4.637917	20.0	950073.0	0.463792	Y
4	STDA9 240-489988/21	20.0	9.35914	20.0	889368.0	0.467957	Y
5	STDA9 240-489988/22	40.0	18.67283	20.0	972400.0	0.466821	Y
6	STDA9 240-489988/23	60.0	28.792197	20.0	930764.0	0.47987	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

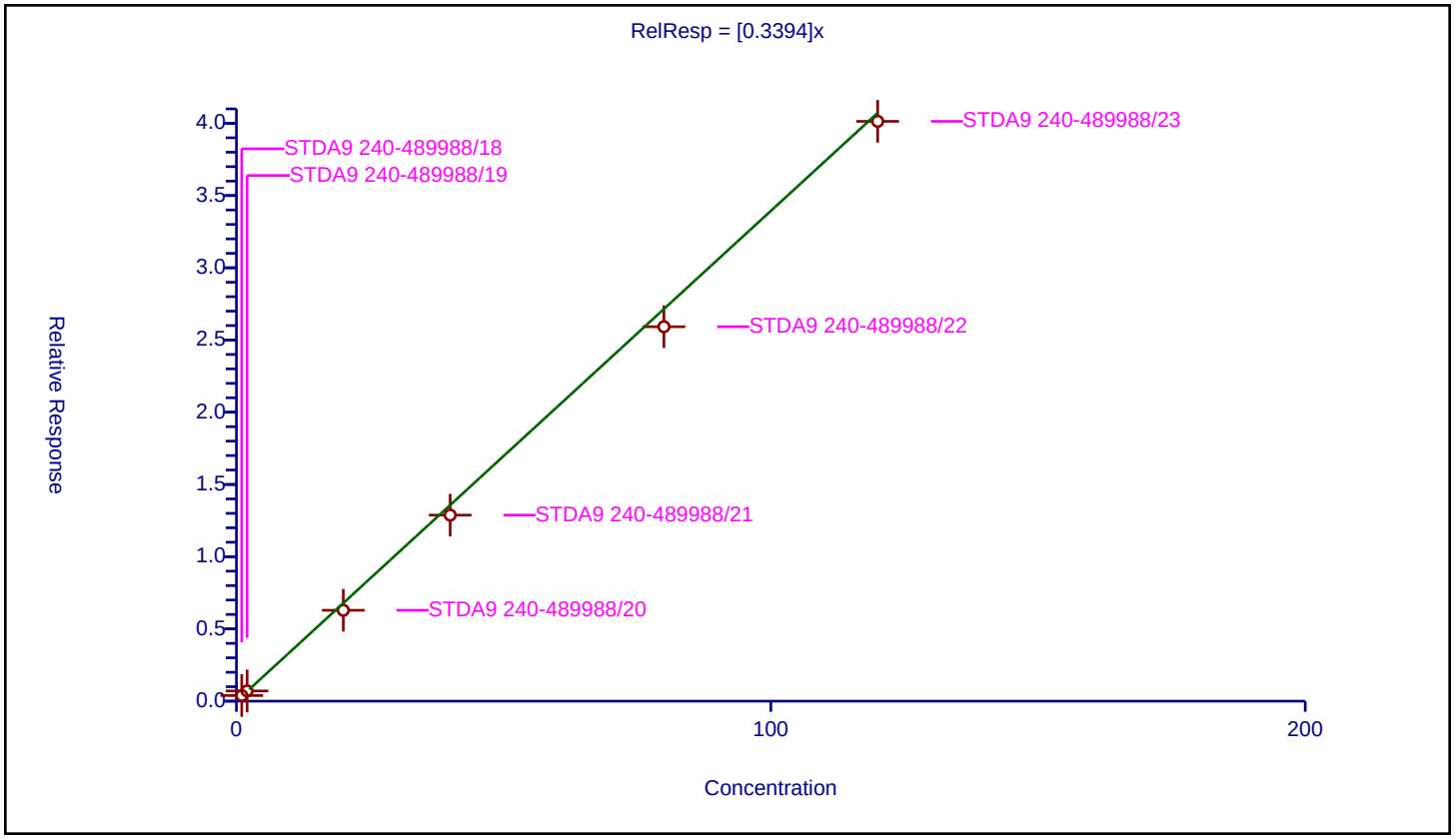
Curve Coefficients

Intercept:	0
Slope:	0.3394

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	1.0	0.388208	20.0	945010.0	0.388208	Y
2	STDA9 240-489988/19	2.0	0.705956	20.0	935582.0	0.352978	Y
3	STDA9 240-489988/20	20.0	6.290464	20.0	950073.0	0.314523	Y
4	STDA9 240-489988/21	40.0	12.878538	20.0	889368.0	0.321963	Y
5	STDA9 240-489988/22	80.0	25.919292	20.0	972400.0	0.323991	Y
6	STDA9 240-489988/23	120.0	40.137199	20.0	930764.0	0.334477	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

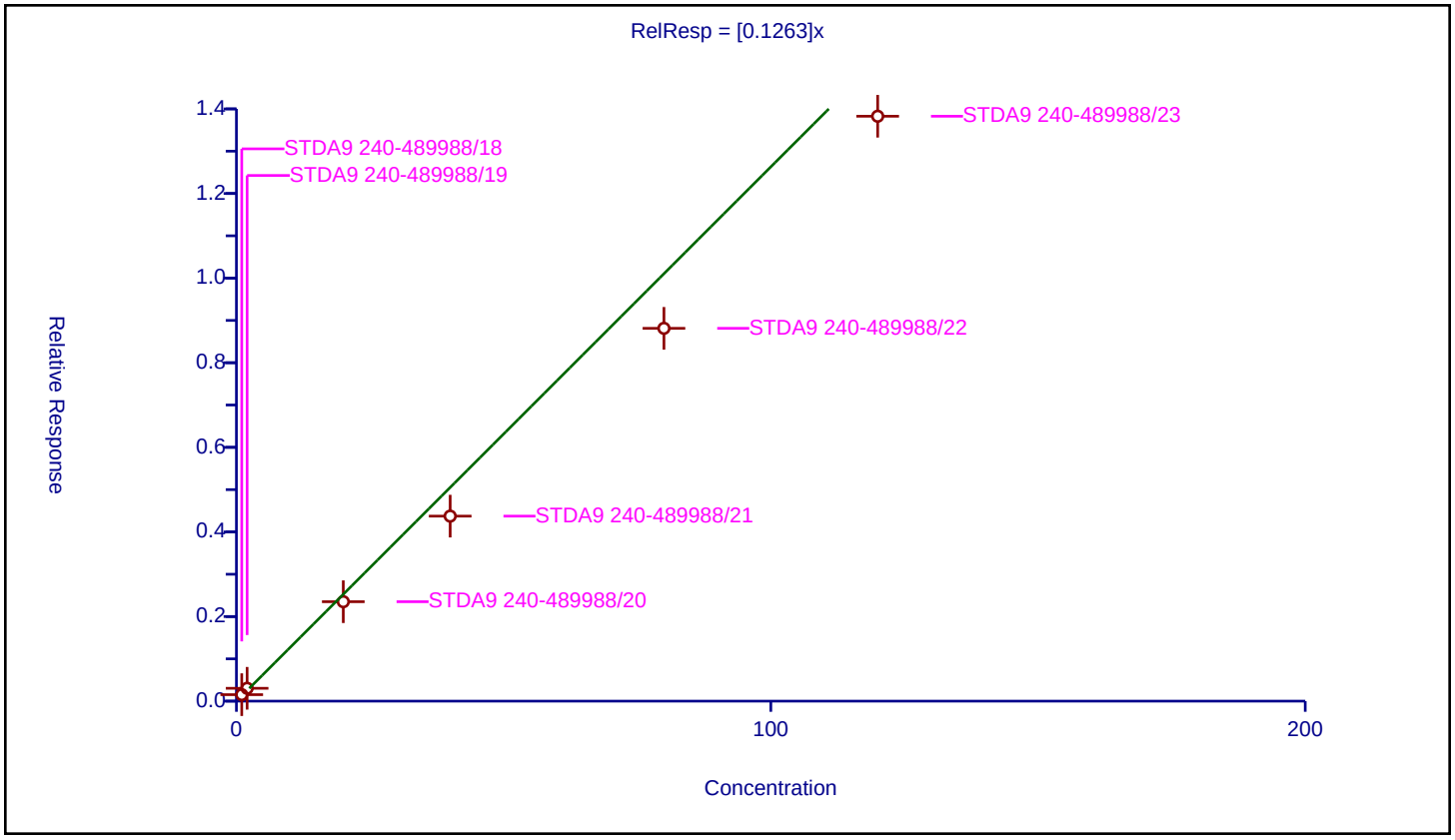
Curve Coefficients

Intercept:	0
Slope:	0.1263

Error Coefficients

Standard Error:	360000
Relative Standard Error:	16.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.958

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	1.0	0.153522	20.0	945010.0	0.153522	Y
2	STDA9 240-489988/19	2.0	0.304025	20.0	935582.0	0.152012	Y
3	STDA9 240-489988/20	20.0	2.350661	20.0	950073.0	0.117533	Y
4	STDA9 240-489988/21	40.0	4.373713	20.0	889368.0	0.109343	Y
5	STDA9 240-489988/22	80.0	8.812896	20.0	972400.0	0.110161	Y
6	STDA9 240-489988/23	120.0	13.826534	20.0	930764.0	0.115221	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

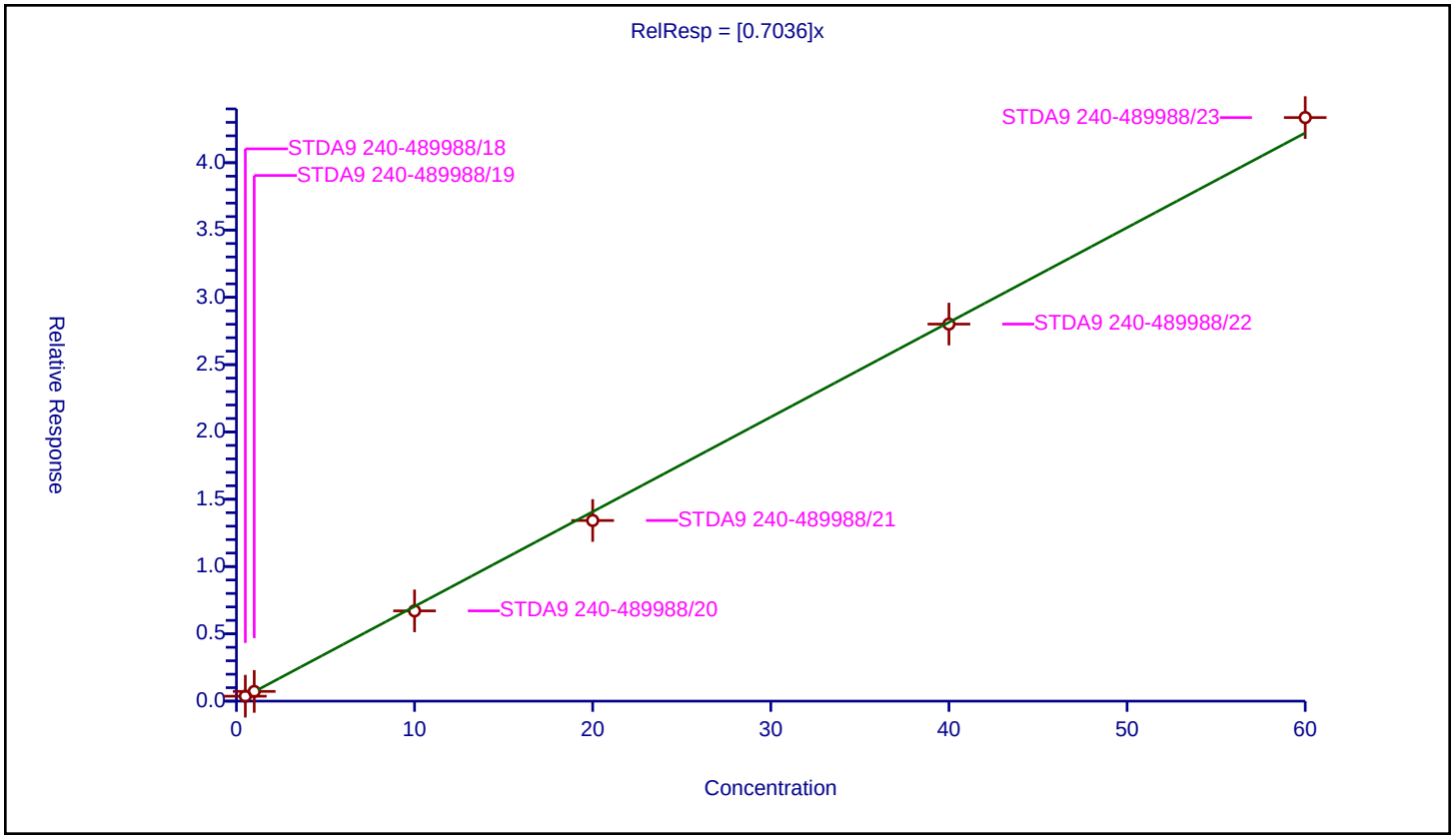
Curve Coefficients

Intercept:	0
Slope:	0.7036

Error Coefficients

Standard Error:	933000
Relative Standard Error:	3.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	0.367263	20.0	776881.0	0.734527	Y
2	STDA9 240-489988/19	1.0	0.722424	20.0	754986.0	0.722424	Y
3	STDA9 240-489988/20	10.0	6.706358	20.0	785562.0	0.670636	Y
4	STDA9 240-489988/21	20.0	13.421328	20.0	739441.0	0.671066	Y
5	STDA9 240-489988/22	40.0	28.012441	20.0	806044.0	0.700311	Y
6	STDA9 240-489988/23	60.0	43.354082	20.0	766332.0	0.722568	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

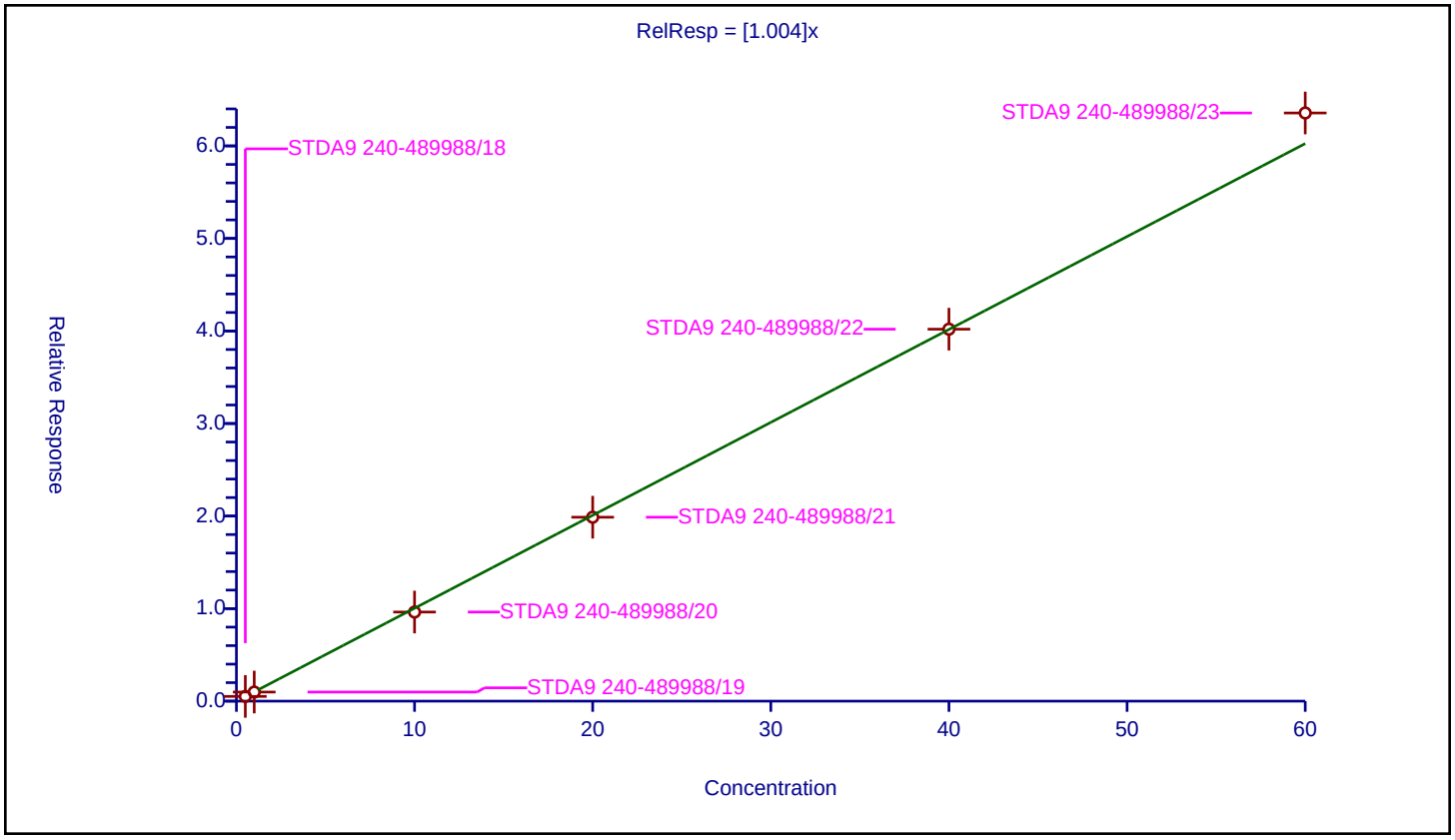
Curve Coefficients

Intercept:	0
Slope:	1.004

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	0.510812	20.0	776881.0	1.021624	Y
2	STDA9 240-489988/19	1.0	0.982535	20.0	754986.0	0.982535	Y
3	STDA9 240-489988/20	10.0	9.628164	20.0	785562.0	0.962816	Y
4	STDA9 240-489988/21	20.0	19.874689	20.0	739441.0	0.993734	Y
5	STDA9 240-489988/22	40.0	40.19525	20.0	806044.0	1.004881	Y
6	STDA9 240-489988/23	60.0	63.55804	20.0	766332.0	1.059301	Y



Calibration / Cyclohexanone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

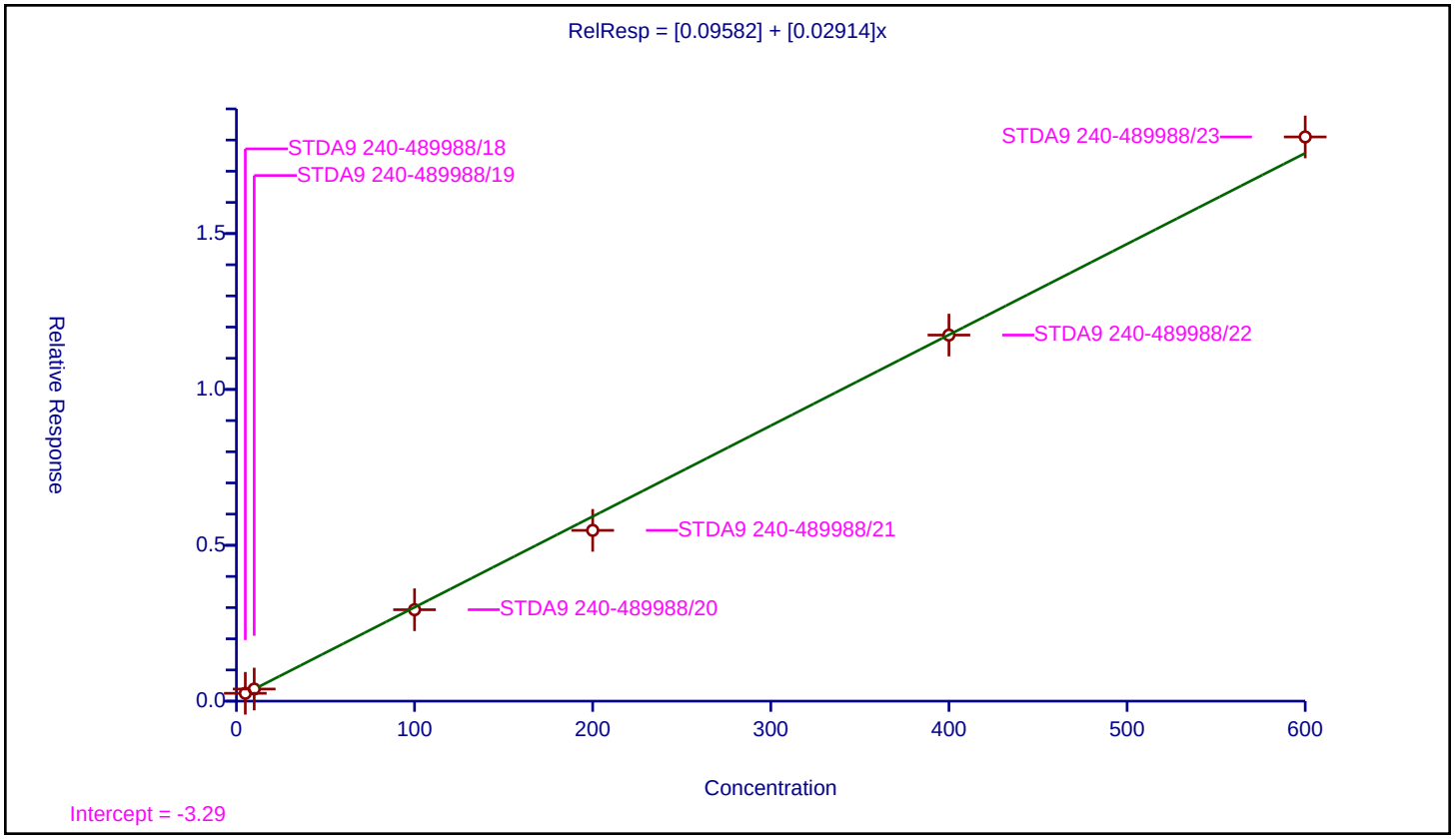
Curve Coefficients

Intercept:	0.09582
Slope:	0.02914

Error Coefficients

Standard Error:	231000
Relative Standard Error:	5.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	5.0	0.251889	20.0	400176.0	0.050378	Y
2	STDA9 240-489988/19	10.0	0.388019	20.0	389723.0	0.038802	Y
3	STDA9 240-489988/20	100.0	2.9328	20.0	410461.0	0.029328	Y
4	STDA9 240-489988/21	200.0	5.478145	20.0	396700.0	0.027391	Y
5	STDA9 240-489988/22	400.0	11.743645	20.0	420292.0	0.029359	Y
6	STDA9 240-489988/23	600.0	18.100151	20.0	408422.0	0.030167	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

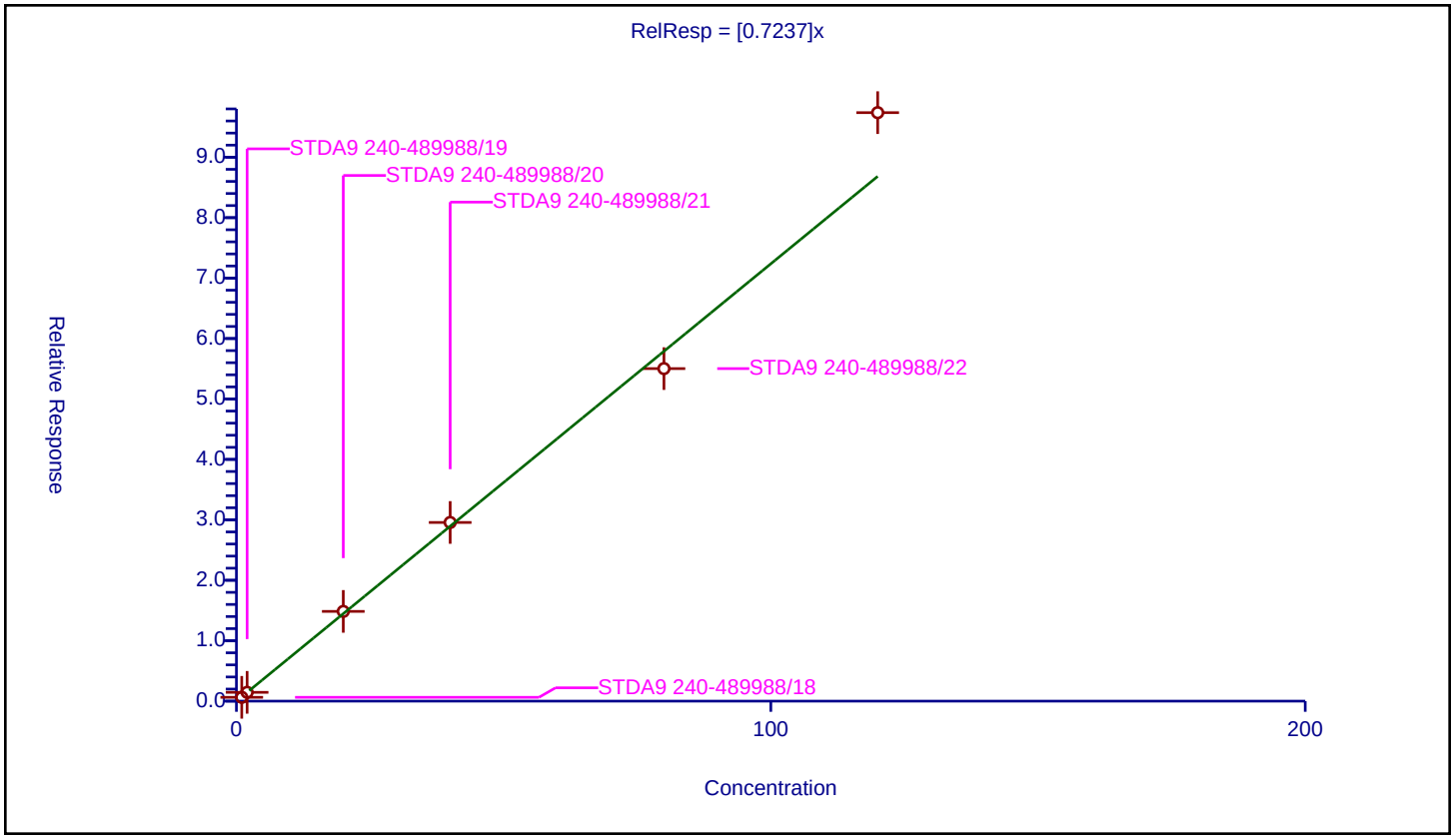
Curve Coefficients

Intercept:	0
Slope:	0.7237

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	8.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	1.0	0.633121	20.0	400176.0	0.633121	Y
2	STDA9 240-489988/19	2.0	1.455598	20.0	389723.0	0.727799	Y
3	STDA9 240-489988/20	20.0	14.850083	20.0	410461.0	0.742504	Y
4	STDA9 240-489988/21	40.0	29.567583	20.0	396700.0	0.73919	Y
5	STDA9 240-489988/22	80.0	55.025221	20.0	420292.0	0.687815	Y
6	STDA9 240-489988/23	120.0	97.380357	20.0	408422.0	0.811503	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

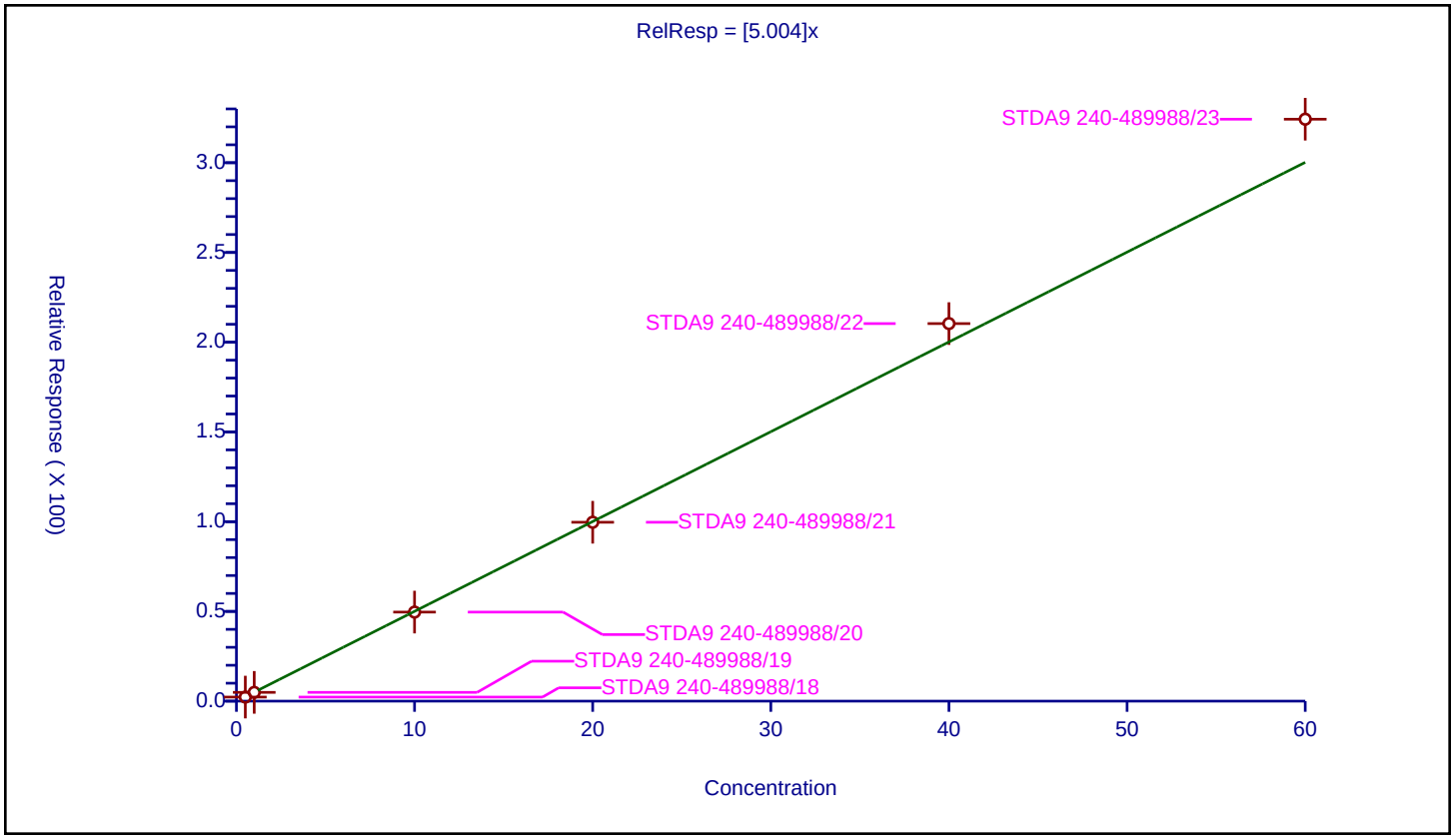
Curve Coefficients

Intercept:	0
Slope:	5.004

Error Coefficients

Standard Error:	3700000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	2.263254	20.0	400176.0	4.526508	Y
2	STDA9 240-489988/19	1.0	4.885624	20.0	389723.0	4.885624	Y
3	STDA9 240-489988/20	10.0	49.626055	20.0	410461.0	4.962605	Y
4	STDA9 240-489988/21	20.0	99.676582	20.0	396700.0	4.983829	Y
5	STDA9 240-489988/22	40.0	210.371456	20.0	420292.0	5.259286	Y
6	STDA9 240-489988/23	60.0	324.26358	20.0	408422.0	5.404393	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

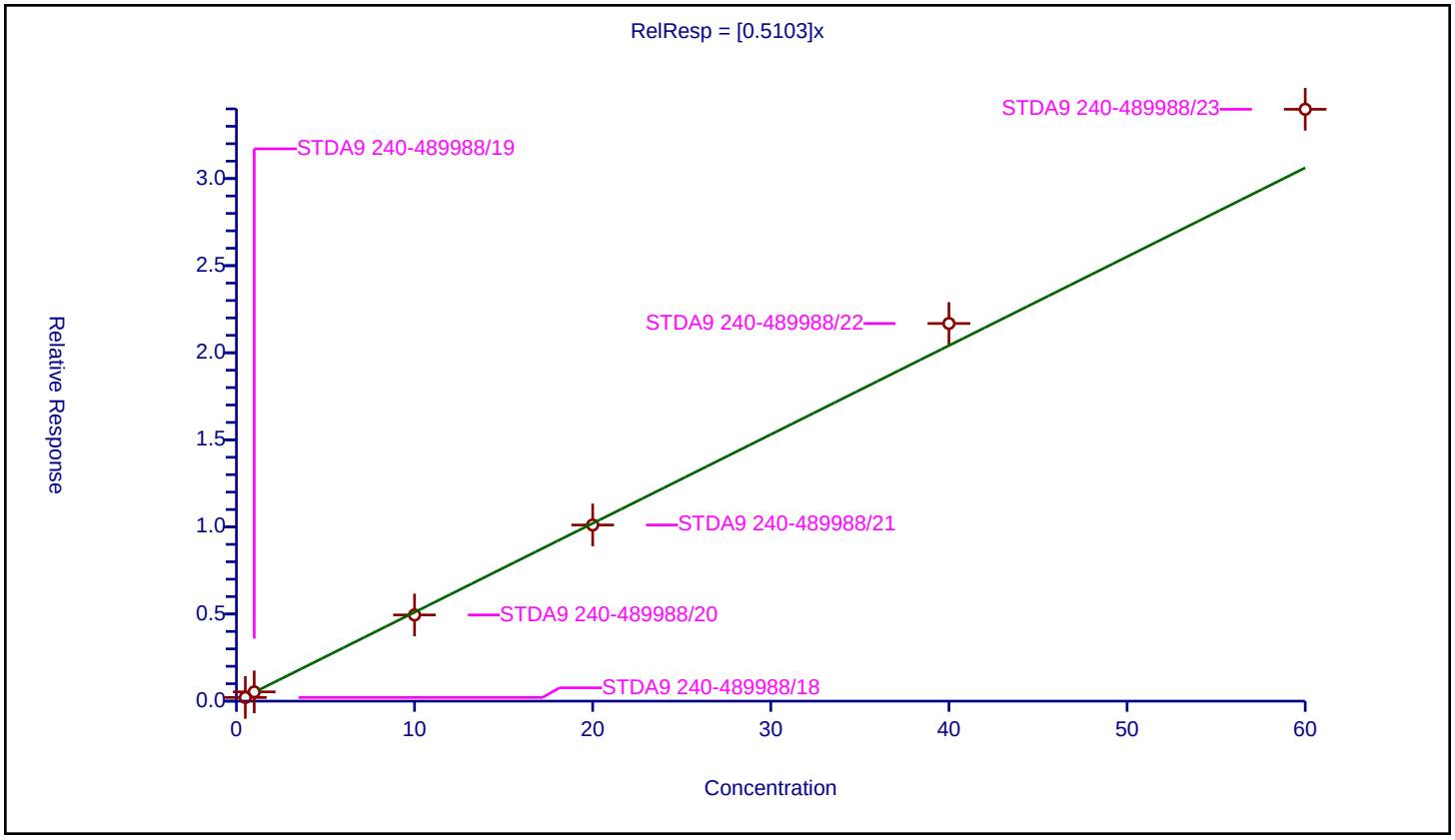
Curve Coefficients

Intercept:	0
Slope:	0.5103

Error Coefficients

Standard Error:	385000
Relative Standard Error:	10.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	0.209858	20.0	400176.0	0.419715	Y
2	STDA9 240-489988/19	1.0	0.533251	20.0	389723.0	0.533251	Y
3	STDA9 240-489988/20	10.0	4.948533	20.0	410461.0	0.494853	Y
4	STDA9 240-489988/21	20.0	10.112428	20.0	396700.0	0.505621	Y
5	STDA9 240-489988/22	40.0	21.680784	20.0	420292.0	0.54202	Y
6	STDA9 240-489988/23	60.0	33.977455	20.0	408422.0	0.566291	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

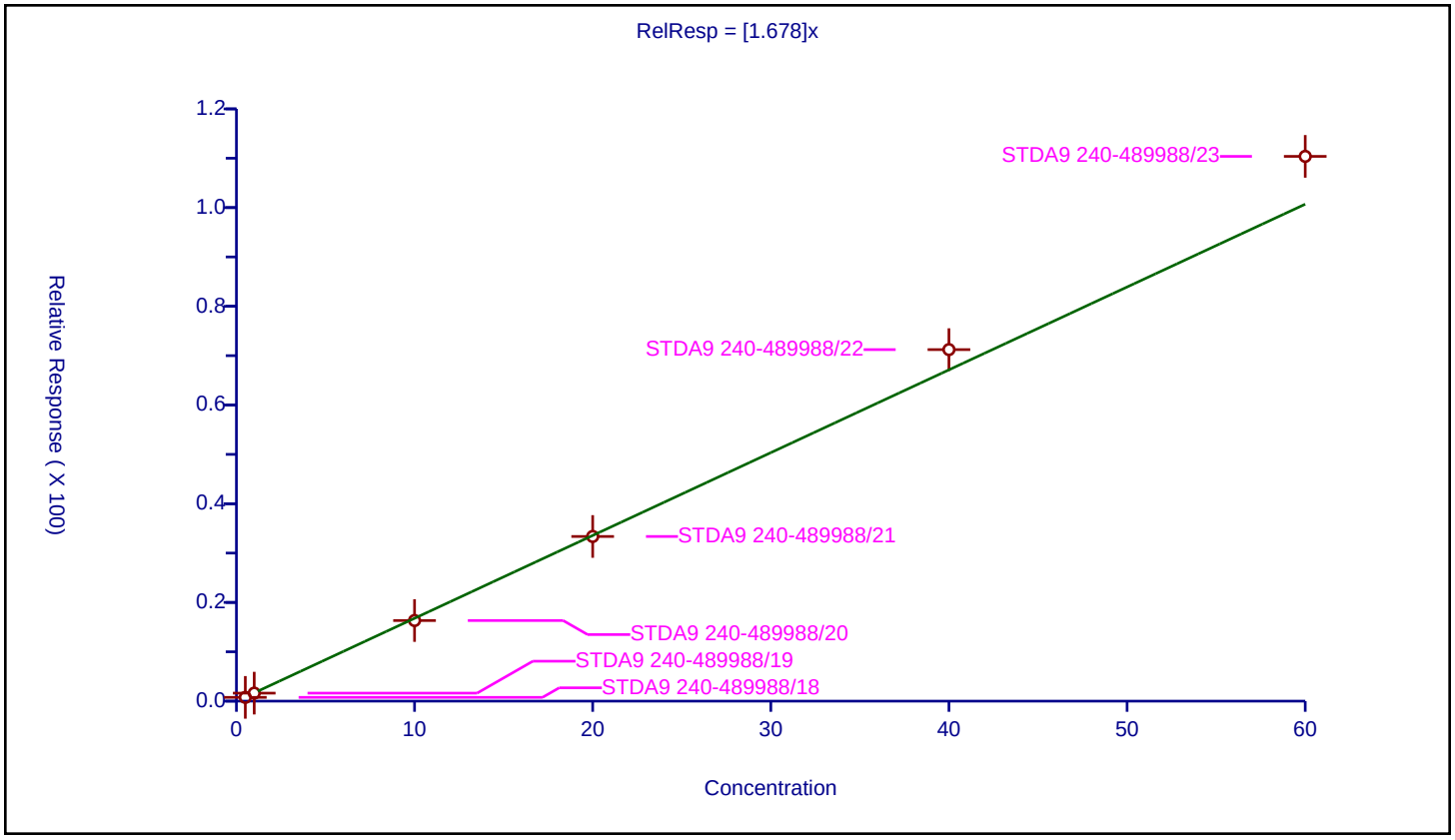
Curve Coefficients

Intercept:	0
Slope:	1.678

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	0.5	0.762714	20.0	400176.0	1.525429	Y
2	STDA9 240-489988/19	1.0	1.622332	20.0	389723.0	1.622332	Y
3	STDA9 240-489988/20	10.0	16.330224	20.0	410461.0	1.633022	Y
4	STDA9 240-489988/21	20.0	33.36365	20.0	396700.0	1.668183	Y
5	STDA9 240-489988/22	40.0	71.228146	20.0	420292.0	1.780704	Y
6	STDA9 240-489988/23	60.0	110.380342	20.0	408422.0	1.839672	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

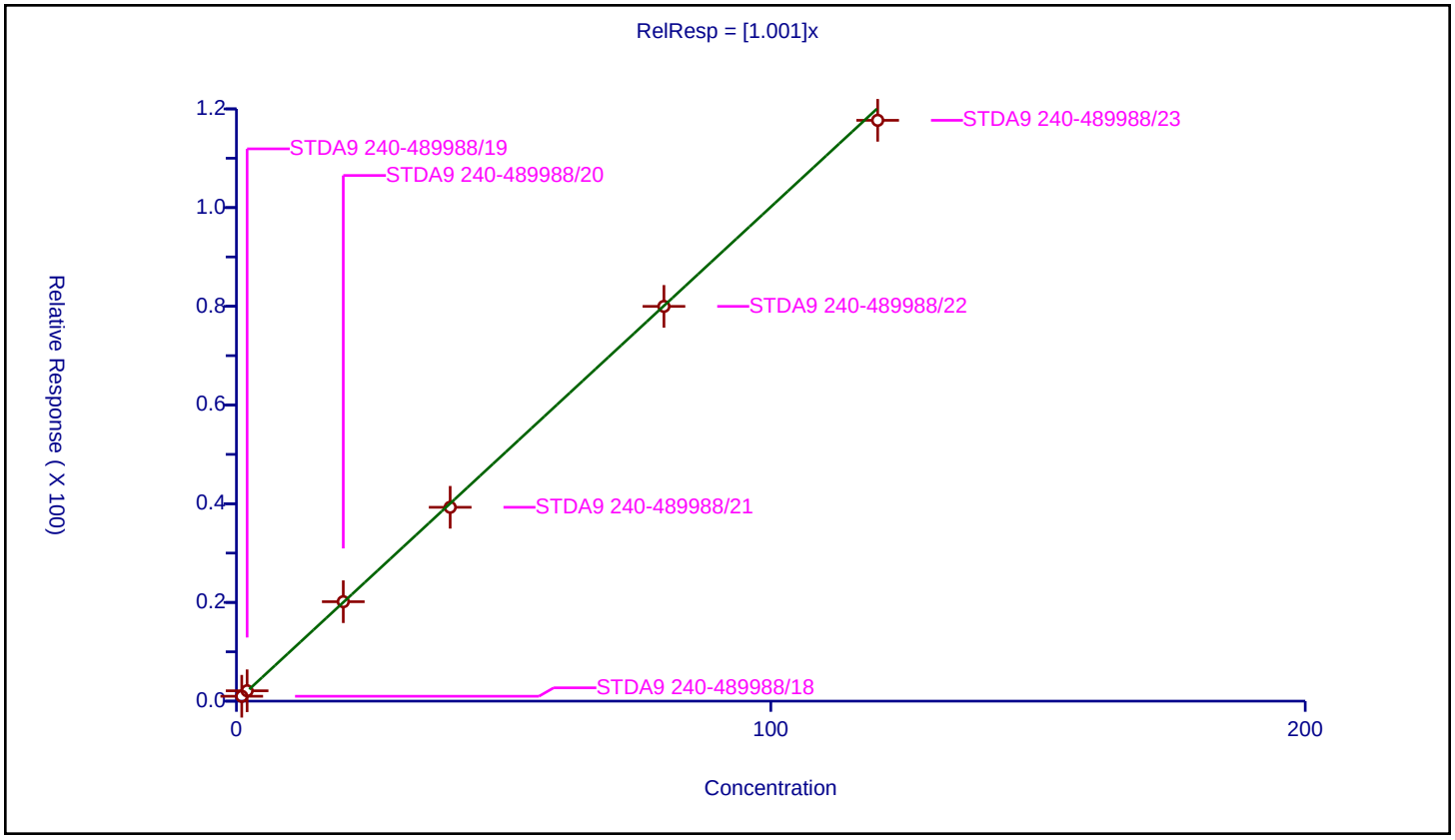
Curve Coefficients

Intercept:	0
Slope:	1.001

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	1.0	0.988065	20.0	400176.0	0.988065	Y
2	STDA9 240-489988/19	2.0	2.099902	20.0	389723.0	1.049951	Y
3	STDA9 240-489988/20	20.0	20.148954	20.0	410461.0	1.007448	Y
4	STDA9 240-489988/21	40.0	39.279808	20.0	396700.0	0.981995	Y
5	STDA9 240-489988/22	80.0	79.986581	20.0	420292.0	0.999832	Y
6	STDA9 240-489988/23	120.0	117.68274	20.0	408422.0	0.980689	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

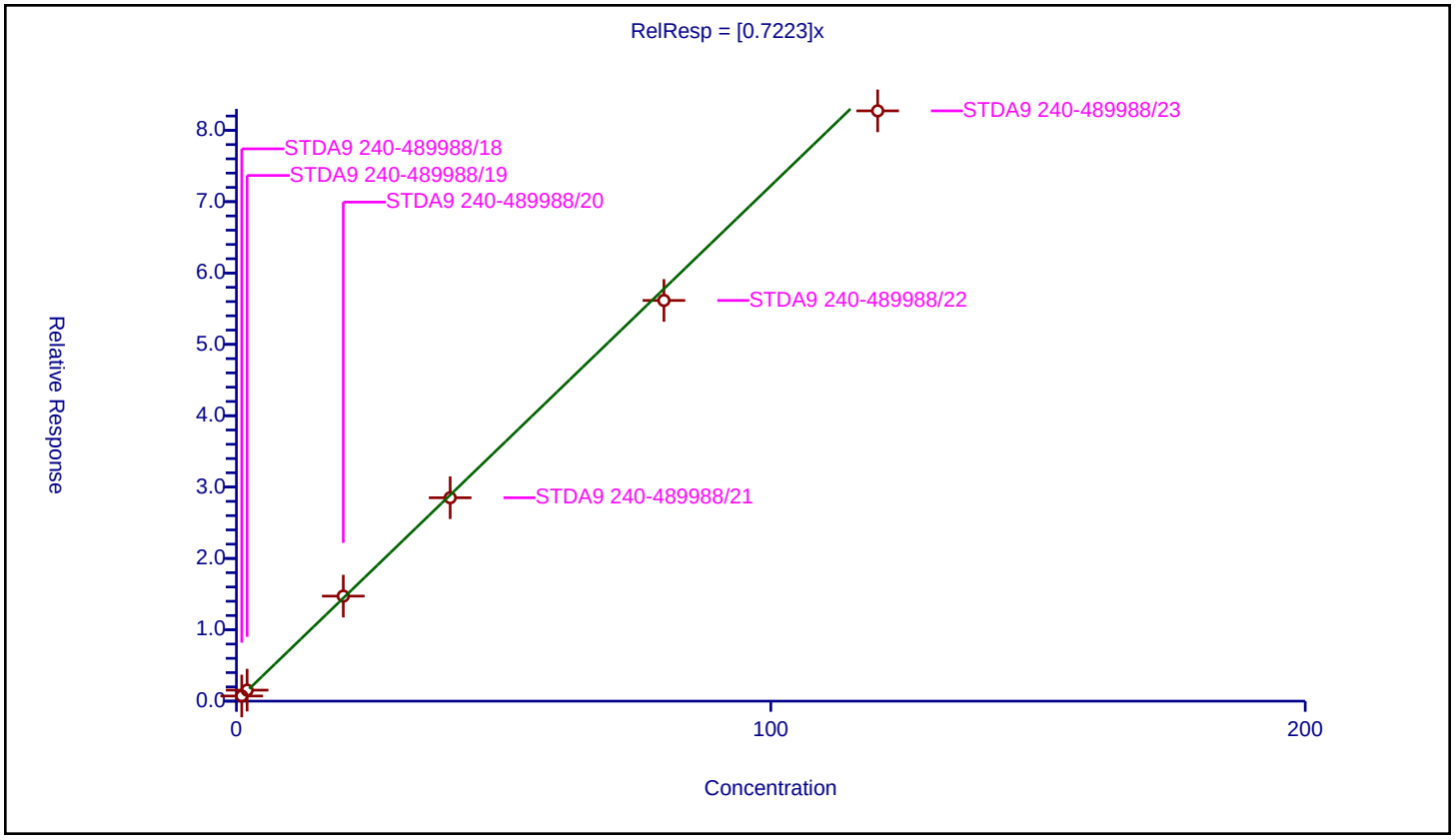
Curve Coefficients

Intercept:	0
Slope:	0.7223

Error Coefficients

Standard Error:	965000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-489988/18	1.0	0.722632	20.0	400176.0	0.722632	Y
2	STDA9 240-489988/19	2.0	1.542275	20.0	389723.0	0.771137	Y
3	STDA9 240-489988/20	20.0	14.720619	20.0	410461.0	0.736031	Y
4	STDA9 240-489988/21	40.0	28.502395	20.0	396700.0	0.71256	Y
5	STDA9 240-489988/22	80.0	56.154435	20.0	420292.0	0.70193	Y
6	STDA9 240-489988/23	120.0	82.723409	20.0	408422.0	0.689362	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-482539/17 Calibration Date: 04/23/2021 15:17

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM36567.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	0.3597	0.2789	0.1000	0.0155	0.0200	-22.4	30.0
Chloromethane	Ave	0.3711	0.3284	0.1000	0.0177	0.0200	-11.5	30.0
Vinyl chloride	Ave	0.3683	0.3604	0.1000	0.0196	0.0200	-2.1	30.0
Butadiene	Ave	0.3577	0.3091		0.0173	0.0200	-13.6	30.0
Bromomethane	Lin1		0.1946	0.0500	0.0188	0.0200	-6.2	30.0
Chloroethane	Ave	0.2067	0.1970	0.0500	0.0191	0.0200	-4.7	30.0
Dichlorofluoromethane	Ave	0.4696	0.4481		0.0191	0.0200	-4.6	30.0
Trichlorofluoromethane	Ave	0.4002	0.3861	0.1000	0.0193	0.0200	-3.5	30.0
Ethyl ether	Ave	0.1785	0.1796		0.0201	0.0200	0.6	30.0
Acrolein	Ave	0.0109	0.0150		0.137	0.100	37.3*	30.0
1,1-Dichloroethene	Ave	0.2222	0.2212	0.1000	0.0199	0.0200	-0.4	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1731	0.1717	0.0500	0.0198	0.0200	-0.8	30.0
Acetone	Lin1		0.0176	0.0100	0.0372	0.0400	-7.0	50.0
Iodomethane	Ave	0.2949	0.2808		0.0190	0.0200	-4.8	30.0
Carbon disulfide	Ave	0.7278	0.7245	0.1000	0.0199	0.0200	-0.5	30.0
Methyl acetate	Ave	0.1657	0.1384	0.1000	0.0334	0.0400	-16.5	50.0
3-Chloro-1-propene	Ave	0.3878	0.3775		0.0195	0.0200	-2.7	30.0
Methylene Chloride	Ave	0.2633	0.2452	0.1000	0.0186	0.0200	-6.9	50.0
tert-Butyl alcohol	Ave	0.0219	0.0190		0.173	0.200	-13.6	30.0
Acrylonitrile	Ave	0.0908	0.0796		0.175	0.200	-12.4	30.0
Methyl tert-butyl ether	Ave	0.6160	0.5803	0.1000	0.0188	0.0200	-5.8	30.0
trans-1,2-Dichloroethene	Ave	0.2664	0.2564	0.1000	0.0192	0.0200	-3.8	30.0
Hexane	Ave	0.3512	0.3357		0.0191	0.0200	-4.4	30.0
Vinyl acetate	Lin1		0.2671		0.0179	0.0200	-10.7	30.0
1,1-Dichloroethane	Ave	0.4687	0.4395	0.2000	0.0188	0.0200	-6.2	30.0
2-Butanone	Ave	0.0236	0.0214	0.0100	0.0363	0.0400	-9.3	50.0
2,2-Dichloropropane	Ave	0.4110	0.3986		0.0194	0.0200	-3.0	30.0
cis-1,2-Dichloroethene	Ave	0.2958	0.2816	0.1000	0.0190	0.0200	-4.8	30.0
Bromochloromethane	Ave	0.1306	0.1215		0.0186	0.0200	-6.9	30.0
Tetrahydrofuran	Ave	0.0672	0.0581		0.0345	0.0400	-13.6	30.0
Chloroform	Ave	0.4573	0.4257	0.2000	0.0186	0.0200	-6.9	30.0
1,1,1-Trichloroethane	Ave	0.3941	0.3751	0.1000	0.0190	0.0200	-4.8	30.0
Cyclohexane	Ave	0.4354	0.4254	0.1000	0.0195	0.0200	-2.3	30.0
1,1-Dichloropropene	Ave	0.3399	0.3314		0.0195	0.0200	-2.5	30.0
Carbon tetrachloride	Ave	0.3235	0.3208	0.1000	0.0198	0.0200	-0.8	30.0
Isobutyl alcohol	Ave	0.0069	0.0054		0.392	0.500	-21.6	30.0
Benzene	Ave	1.010	0.9527	0.5000	0.0189	0.0200	-5.7	30.0
1,2-Dichloroethane	Ave	0.3364	0.3253	0.1000	0.0193	0.0200	-3.3	30.0
n-Heptane	Lin1		0.2185		0.0201	0.0200	0.6	30.0
Trichloroethene	Ave	0.2625	0.2540	0.1500	0.0193	0.0200	-3.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-482539/17 Calibration Date: 04/23/2021 15:17

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM36567.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	0.4438	0.4346	0.1000	0.0196	0.0200	-2.1	30.0
1,2-Dichloropropane	Ave	0.2382	0.2354	0.1000	0.0198	0.0200	-1.2	30.0
1,4-Dioxane	Ave	0.0029	0.0025		0.345	0.400	-13.9	50.0
Dibromomethane	Ave	0.1462	0.1372		0.0188	0.0200	-6.2	30.0
Bromodichloromethane	Ave	0.3399	0.3262	0.1500	0.0192	0.0200	-4.0	30.0
2-Chloroethyl vinyl ether	Ave	0.1366	0.1278		0.0187	0.0200	-6.5	30.0
cis-1,3-Dichloropropene	Ave	0.3924	0.3869	0.1500	0.0197	0.0200	-1.4	50.0
4-Methyl-2-pentanone	Ave	0.1797	0.1613	0.0500	0.0359	0.0400	-10.2	50.0
Toluene	Ave	1.432	1.346	0.4000	0.0188	0.0200	-6.0	30.0
trans-1,3-Dichloropropene	Ave	0.4496	0.4168	0.1000	0.0185	0.0200	-7.3	30.0
Ethyl methacrylate	Ave	0.3544	0.3367		0.0190	0.0200	-5.0	30.0
1,1,2-Trichloroethane	Ave	0.2444	0.2300	0.1000	0.0188	0.0200	-5.9	30.0
Tetrachloroethene	Ave	0.2661	0.2546	0.1500	0.0191	0.0200	-4.3	30.0
1,3-Dichloropropane	Ave	0.4464	0.4252		0.0191	0.0200	-4.7	30.0
2-Hexanone	Ave	0.1652	0.1473	0.0500	0.0357	0.0400	-10.8	50.0
Dibromochloromethane	Ave	0.2822	0.2733		0.0194	0.0200	-3.2	30.0
1,2-Dibromoethane	Ave	0.2435	0.2359		0.0194	0.0200	-3.1	30.0
Chlorobenzene	Ave	0.9137	0.8639	0.3000	0.0189	0.0200	-5.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2841	0.2781		0.0196	0.0200	-2.1	30.0
Ethylbenzene	Ave	0.5176	0.4918		0.0190	0.0200	-5.0	30.0
m-Xylene & p-Xylene	Ave	0.6543	0.6152		0.0188	0.0200	-6.0	30.0
o-Xylene	Ave	0.6167	0.5956		0.0193	0.0200	-3.4	30.0
Styrene	Ave	0.9433	1.018	0.3000	0.0216	0.0200	7.9	30.0
Bromoform	Ave	0.1723	0.1650	0.1000	0.0192	0.0200	-4.2	30.0
Isopropylbenzene	Ave	1.619	1.555	0.1000	0.0192	0.0200	-3.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5537	0.5037	0.3000	0.0182	0.0200	-9.0	30.0
Bromobenzene	Ave	0.6628	0.6396		0.0193	0.0200	-3.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1878	0.1778		0.0189	0.0200	-5.3	30.0
1,2,3-Trichloropropane	Ave	0.1809	0.1700		0.0188	0.0200	-6.0	30.0
n-Propylbenzene	Ave	0.8496	0.8032		0.0189	0.0200	-5.5	30.0
2-Chlorotoluene	Ave	0.6884	0.6543		0.0190	0.0200	-5.0	30.0
1,3,5-Trimethylbenzene	Ave	2.541	2.466		0.0194	0.0200	-3.0	30.0
4-Chlorotoluene	Ave	0.7179	0.6896		0.0192	0.0200	-3.9	30.0
tert-Butylbenzene	Ave	2.190	2.065		0.0189	0.0200	-5.7	30.0
1,2,4-Trimethylbenzene	Ave	2.572	2.468		0.0192	0.0200	-4.1	30.0
sec-Butylbenzene	Ave	3.284	3.132		0.0191	0.0200	-4.6	30.0
1,3-Dichlorobenzene	Ave	1.327	1.256	0.6000	0.0189	0.0200	-5.3	30.0
p-Isopropyltoluene	Ave	2.798	2.695		0.0193	0.0200	-3.7	30.0
1,4-Dichlorobenzene	Ave	1.331	1.283	0.5000	0.0193	0.0200	-3.7	30.0
n-Butylbenzene	Ave	2.529	2.425		0.0192	0.0200	-4.1	30.0
1,2-Dichlorobenzene	Ave	1.229	1.133	0.4000	0.0184	0.0200	-7.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-482539/17 Calibration Date: 04/23/2021 15:17

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM36567.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	0.1304	0.1217	0.0500	0.0187	0.0200	-6.6	50.0
1,2,4-Trichlorobenzene	Ave	0.7137	0.6800	0.2000	0.0191	0.0200	-4.7	50.0
Hexachlorobutadiene	Ave	0.3214	0.3160		0.0197	0.0200	-1.7	50.0
Naphthalene	Ave	1.813	1.619		0.0179	0.0200	-10.7	50.0
1,2,3-Trichlorobenzene	Ave	0.6054	0.5661		0.0187	0.0200	-6.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2427	0.2571		0.0212	0.0200	5.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2866	0.3003		0.0210	0.0200	4.8	30.0
Toluene-d8 (Surr)	Ave	1.219	1.289		0.0212	0.0200	5.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4689	0.5548		0.0237	0.0200	18.3	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36567.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2021 15:17:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-017
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:38:48 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 15:40:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	1382486	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	86	1086217	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.826	10.838	-0.012	95	592489	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.265	5.264	0.001	94	355408	20.0	21.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	415102	20.0	21.0	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	1400624	20.0	21.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	86	602638	20.0	23.7	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	385614	20.0	15.5	
10 Chloromethane	50	1.897	1.897	0.000	99	454053	20.0	17.7	
11 Vinyl chloride	62	2.015	2.015	0.000	98	498258	20.0	19.6	
12 Butadiene	54	2.051	2.051	0.000	98	427363	20.0	17.3	
13 Bromomethane	94	2.347	2.347	0.000	90	269022	20.0	18.8	
14 Chloroethane	64	2.466	2.466	0.000	100	272385	20.0	19.1	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	619508	20.0	19.1	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	98	533821	20.0	19.3	
17 Ethyl ether	59	3.011	3.011	0.000	90	248338	20.0	20.1	
18 Acrolein	56	3.142	3.142	0.000	99	103833	100.0	137.3	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	98	305794	20.0	19.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.248	0.001	93	237352	20.0	19.8	
21 Acetone	58	3.284	3.284	0.000	99	48731	40.0	37.2	
23 Iodomethane	142	3.391	3.391	0.000	97	388151	20.0	19.0	
24 Carbon disulfide	76	3.450	3.450	0.000	99	1001616	20.0	19.9	
27 Methyl acetate	43	3.569	3.569	0.000	97	382534	40.0	33.4	
26 3-Chloro-1-propene	41	3.593	3.592	0.001	90	521828	20.0	19.5	
28 Methylene Chloride	84	3.711	3.711	0.000	92	338934	20.0	18.6	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	262155	200.0	172.8	
30 Acrylonitrile	53	3.925	3.924	0.001	99	1100731	200.0	175.3	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	96	802224	20.0	18.8	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	99	354426	20.0	19.2	
33 Hexane	57	4.197	4.197	0.000	92	464110	20.0	19.1	
35 Vinyl acetate	43	4.340	4.339	0.001	97	369220	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	4.352	4.351	0.001	96	607558	20.0	18.8	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	99	59086	40.0	36.3	
39 cis-1,2-Dichloroethene	96	4.850	4.849	0.001	82	389310	20.0	19.0	
41 2,2-Dichloropropane	77	4.850	4.849	0.001	87	551029	20.0	19.4	
45 Chlorobromomethane	128	5.051	5.051	0.000	98	168031	20.0	18.6	
46 Tetrahydrofuran	42	5.063	5.063	0.000	87	160573	40.0	34.5	
47 Chloroform	83	5.134	5.134	0.000	94	588578	20.0	18.6	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	99	518534	20.0	19.0	
49 Cyclohexane	56	5.348	5.347	0.001	89	588157	20.0	19.5	
51 Carbon tetrachloride	117	5.419	5.419	0.000	90	443455	20.0	19.8	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	94	458105	20.0	19.5	
52 Isobutyl alcohol	41	5.466	5.466	0.000	94	188355	500.0	392.2	
54 Benzene	78	5.585	5.585	0.000	97	1317115	20.0	18.9	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	98	449698	20.0	19.3	
56 n-Heptane	57	5.822	5.822	0.000	89	302024	20.0	20.1	
58 Trichloroethene	130	6.154	6.154	0.000	97	351135	20.0	19.3	
60 Methylcyclohexane	83	6.356	6.355	0.001	90	600777	20.0	19.6	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	94	325444	20.0	19.8	
64 1,4-Dioxane	88	6.427	6.427	0.000	92	68505	400.0	344.6	
63 Dibromomethane	93	6.450	6.450	0.000	95	189632	20.0	18.8	
65 Dichlorobromomethane	83	6.605	6.604	0.001	99	450976	20.0	19.2	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	93	176632	20.0	18.7	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	94	534838	20.0	19.7	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.102	0.001	96	446088	40.0	35.9	
70 Toluene	91	7.281	7.280	0.001	98	1461825	20.0	18.8	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	95	452719	20.0	18.5	
72 Ethyl methacrylate	69	7.518	7.518	0.000	89	365696	20.0	19.0	
73 1,1,2-Trichloroethane	97	7.660	7.672	-0.012	91	249852	20.0	18.8	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	276533	20.0	19.1	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	91	461909	20.0	19.1	
76 2-Hexanone	43	7.850	7.850	0.000	95	320103	40.0	35.7	
78 Chlorodibromomethane	129	8.016	8.016	0.000	91	296851	20.0	19.4	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	256268	20.0	19.4	
82 Chlorobenzene	112	8.585	8.585	0.000	94	938348	20.0	18.9	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	95	302108	20.0	19.6	
84 Ethylbenzene	106	8.668	8.668	0.000	99	534203	20.0	19.0	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	668256	20.0	18.8	
86 o-Xylene	106	9.166	9.166	0.000	96	646993	20.0	19.3	
87 Styrene	104	9.178	9.178	0.000	95	1105815	20.0	21.6	
88 Bromoform	173	9.368	9.367	0.001	97	179266	20.0	19.2	
89 Isopropylbenzene	105	9.510	9.510	0.000	96	1689246	20.0	19.2	
92 1,1,2,2-Tetrachloroethane	83	9.806	9.806	0.000	95	298425	20.0	18.2	
93 Bromobenzene	156	9.842	9.842	0.000	96	378951	20.0	19.3	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	84	105322	20.0	18.9	
95 1,2,3-Trichloropropane	110	9.878	9.877	0.001	80	100694	20.0	18.8	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	475869	20.0	18.9	
97 2-Chlorotoluene	126	10.020	10.020	0.000	96	387676	20.0	19.0	
99 1,3,5-Trimethylbenzene	105	10.091	10.091	0.000	94	1461076	20.0	19.4	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	408567	20.0	19.2	
102 tert-Butylbenzene	119	10.411	10.411	0.000	93	1223496	20.0	18.9	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	97	1462042	20.0	19.2	
105 sec-Butylbenzene	105	10.625	10.624	0.001	94	1855924	20.0	19.1	

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	10.755	10.755	0.000	98	744197	20.0	18.9	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1596868	20.0	19.3	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	759875	20.0	19.3	
111 n-Butylbenzene	91	11.182	11.182	0.000	97	1436690	20.0	19.2	
112 1,2-Dichlorobenzene	146	11.218	11.217	0.001	98	671188	20.0	18.4	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	85	72131	20.0	18.7	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	402869	20.0	19.1	
116 Hexachlorobutadiene	225	12.973	12.972	0.001	97	187224	20.0	19.7	
117 Naphthalene	128	13.115	13.115	0.000	97	959478	20.0	17.9	
118 1,2,3-Trichlorobenzene	180	13.364	13.352	0.012	95	335418	20.0	18.7	
S 134 Trihalomethanes, Total	1				0		80.0	76.3	
S 158 Total BTEX	1				0		100.0	94.8	
S 133 Xylenes, Total	106				0		40.0	38.1	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00404	Amount Added: 16.00	Units: uL		
VMFASAW_00371	Amount Added: 16.00	Units: uL		
vmfaspw_00395	Amount Added: 16.00	Units: uL		
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00191	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00087	Amount Added: 2.00	Units: uL	Run Reagent	

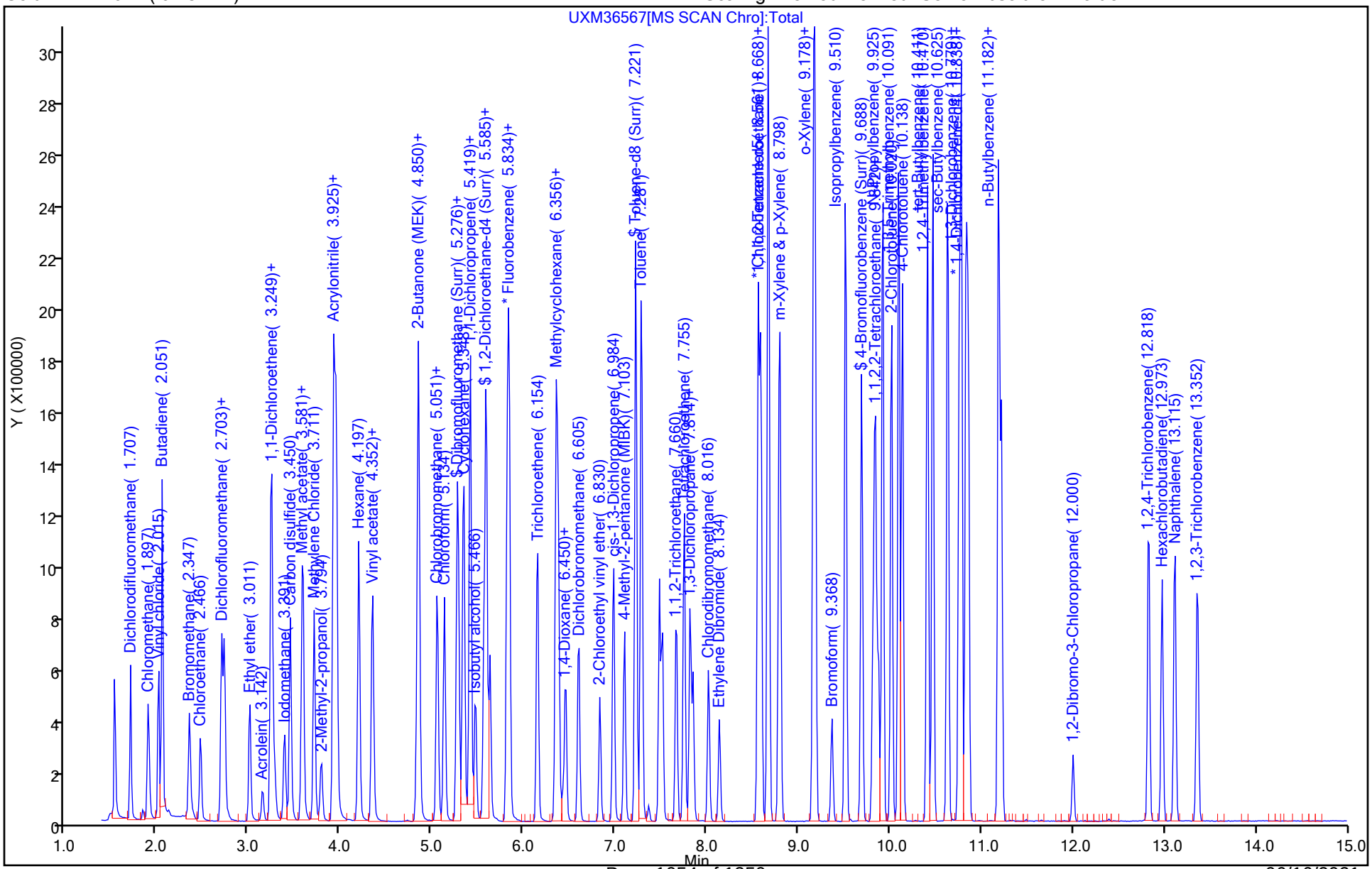
Report Date: 26-Apr-2021 08:38:51 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36567.D

Injection Date:	23-Apr-2021 15:17:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-482539/26 Calibration Date: 04/23/2021 18:55

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM36576.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	0.2427	0.2657		0.0219	0.0200	9.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2866	0.3175		0.0222	0.0200	10.8	30.0
Toluene-d8 (Surr)	Ave	1.219	1.338		0.0220	0.0200	9.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4689	0.5601		0.0239	0.0200	19.5	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36576.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2021 18:55:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-026
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:38:59 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 26-Apr-2021 07:08:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	1313582	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	1020282	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	546295	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.264	5.264	0.000	93	348983	20.0	21.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	99	417045	20.0	22.2	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	1365627	20.0	22.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	87	571465	20.0	23.9	
25 Acetonitrile	41	3.557	3.545	0.012	99	405180	200.0	195.0	
36 Isopropyl ether	87	4.363	4.363	0.000	93	245920	20.0	20.6	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	92	487676	20.0	19.4	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	97	821801	20.0	20.6	
43 Ethyl acetate	43	4.849	4.849	0.000	99	411858	40.0	37.1	
42 Propionitrile	54	4.885	4.885	0.000	99	434407	200.0	189.9	
44 Methacrylonitrile	41	5.015	5.016	-0.001	92	1616178	200.0	199.1	
163 Isooctane	57	5.679	5.680	-0.001	97	944499	20.0	18.2	
55 Tert-amyl methyl ether	73	5.679	5.680	-0.001	96	762376	20.0	20.1	
57 n-Butanol	56	6.035	6.035	0.000	85	161965	500.0	500.0	
59 Ethyl acrylate	55	6.201	6.201	0.000	99	303598	20.0	18.4	
62 Methyl methacrylate	41	6.403	6.403	0.000	89	441519	40.0	38.6	
66 2-Nitropropane	41	6.794	6.794	0.000	98	175625	40.0	39.4	
77 n-Butyl acetate	43	7.944	7.945	-0.001	96	367890	20.0	19.3	
81 1-Chlorohexane	91	8.549	8.549	0.000	98	498470	20.0	18.4	
91 Cyclohexanone	55	9.616	9.617	-0.001	93	103375	200.0	200.4	
103 Pentachloroethane	167	10.447	10.447	0.000	95	120827	40.0	21.7	
109 1,2,3-Trimethylbenzene	105	10.873	10.874	-0.001	98	1381683	20.0	19.5	
110 Benzyl chloride	126	10.968	10.968	0.000	99	138527	20.0	18.6	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	97	490107	20.0	19.5	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	93	772711	40.0	38.1	
162 1-Methylnaphthalene	142	14.810	14.811	-0.001	0	625253	40.0	37.3	

QC Flag Legend

Processing Flags

Reagents:

vmfasa9w_00317	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00191	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent

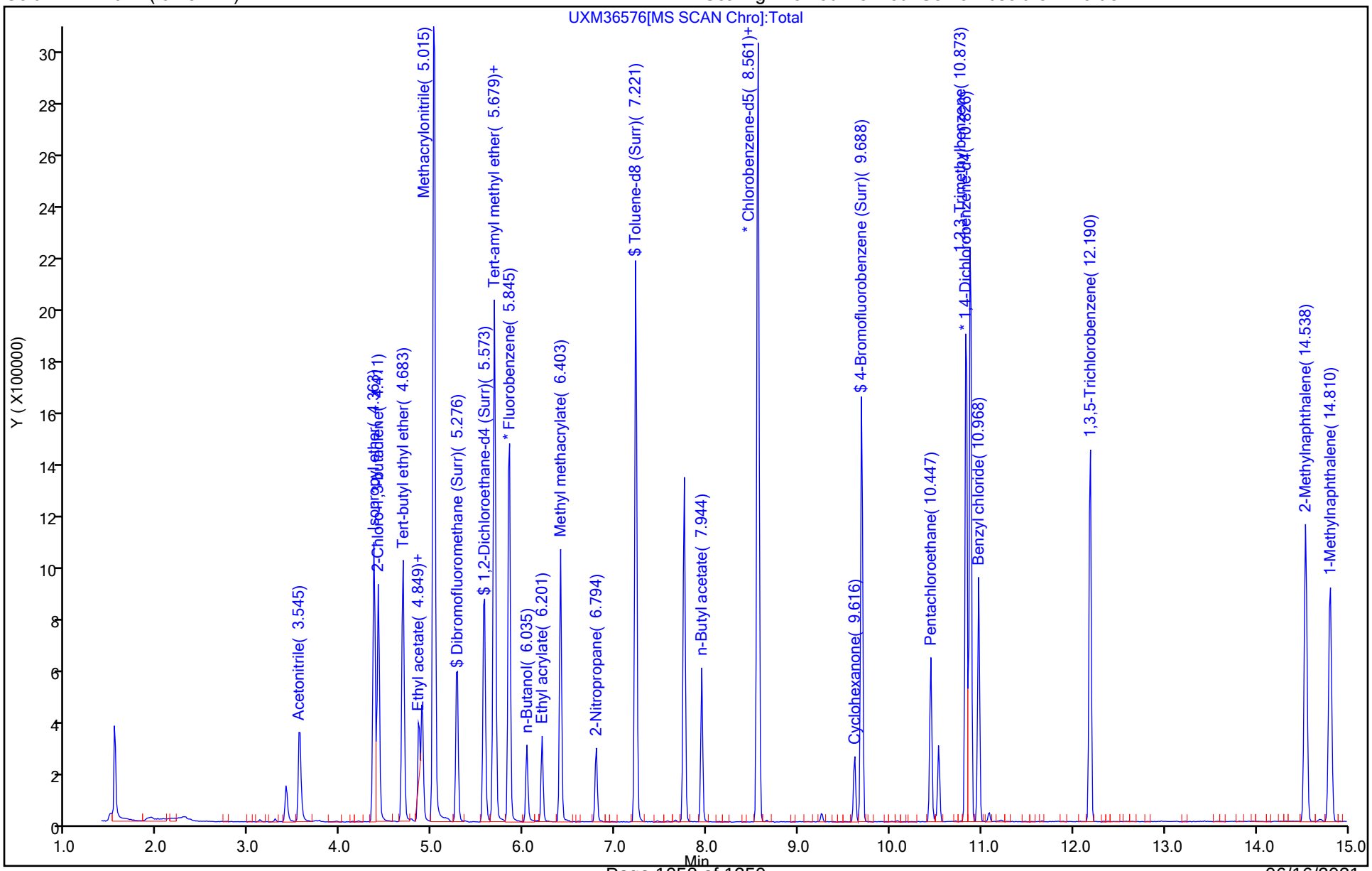
Report Date: 26-Apr-2021 08:39:01 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36576.D

Injection Date:	23-Apr-2021 18:55:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV a9			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-482539/26 Calibration Date: 04/23/2021 18:55

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 16:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 18:30

Lab File ID: UXM36576.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	0.0316	0.0308		0.195	0.200	-2.5	30.0
Diisopropyl ether	Ave	0.1817	0.1872		0.0206	0.0200	3.1	30.0
2-Chloro-1,3-butadiene	Ave	0.3819	0.3713		0.0194	0.0200	-2.8	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.6074	0.6256		0.0206	0.0200	3.0	30.0
Ethyl acetate	Ave	0.1689	0.1568		0.0371	0.0400	-7.2	30.0
Propionitrile	Ave	0.0348	0.0331		0.190	0.200	-5.1	30.0
Methacrylonitrile	Ave	0.1236	0.1230		0.199	0.200	-0.5	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.5775	0.5804		0.0201	0.0200	0.5	30.0
n-Butanol	Ave	0.0049	0.0049		0.500	0.500	0.0	30.0
Ethyl acrylate	Ave	0.2515	0.2311		0.0184	0.0200	-8.1	30.0
Methyl methacrylate	Ave	0.1743	0.1681		0.0386	0.0400	-3.6	30.0
2-Nitropropane	Lin1		0.0668		0.0394	0.0400	-1.5	30.0
n-Butyl acetate	Ave	0.2902	0.2801		0.0193	0.0200	-3.5	30.0
1-Chlorohexane	Ave	0.5303	0.4886		0.0184	0.0200	-7.9	30.0
Cyclohexanone	Lin1		0.0189		0.200	0.200	0.2	30.0
Pentachloroethane	Ave	0.1090	0.0592		0.0217	0.0400	-45.7*	30.0
1,2,3-Trimethylbenzene	Ave	2.601	2.529		0.0195	0.0200	-2.7	30.0
Benzyl chloride	Ave	0.2725	0.2536		0.0186	0.0200	-7.0	30.0
1,3,5-Trichlorobenzene	Ave	0.9222	0.8971		0.0195	0.0200	-2.7	30.0
2-Methylnaphthalene	Ave	0.7431	0.7072		0.0381	0.0400	-4.8	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36576.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2021 18:55:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-026
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:38:59 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 26-Apr-2021 07:08:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	1313582	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	1020282	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	546295	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.264	5.264	0.000	93	348983	20.0	21.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	99	417045	20.0	22.2	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	93	1365627	20.0	22.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	87	571465	20.0	23.9	
25 Acetonitrile	41	3.557	3.545	0.012	99	405180	200.0	195.0	
36 Isopropyl ether	87	4.363	4.363	0.000	93	245920	20.0	20.6	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	92	487676	20.0	19.4	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	97	821801	20.0	20.6	
43 Ethyl acetate	43	4.849	4.849	0.000	99	411858	40.0	37.1	
42 Propionitrile	54	4.885	4.885	0.000	99	434407	200.0	189.9	
44 Methacrylonitrile	41	5.015	5.016	-0.001	92	1616178	200.0	199.1	
163 Isooctane	57	5.679	5.680	-0.001	97	944499	20.0	18.2	
55 Tert-amyl methyl ether	73	5.679	5.680	-0.001	96	762376	20.0	20.1	
57 n-Butanol	56	6.035	6.035	0.000	85	161965	500.0	500.0	
59 Ethyl acrylate	55	6.201	6.201	0.000	99	303598	20.0	18.4	
62 Methyl methacrylate	41	6.403	6.403	0.000	89	441519	40.0	38.6	
66 2-Nitropropane	41	6.794	6.794	0.000	98	175625	40.0	39.4	
77 n-Butyl acetate	43	7.944	7.945	-0.001	96	367890	20.0	19.3	
81 1-Chlorohexane	91	8.549	8.549	0.000	98	498470	20.0	18.4	
91 Cyclohexanone	55	9.616	9.617	-0.001	93	103375	200.0	200.4	
103 Pentachloroethane	167	10.447	10.447	0.000	95	120827	40.0	21.7	
109 1,2,3-Trimethylbenzene	105	10.873	10.874	-0.001	98	1381683	20.0	19.5	
110 Benzyl chloride	126	10.968	10.968	0.000	99	138527	20.0	18.6	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	97	490107	20.0	19.5	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	93	772711	40.0	38.1	
162 1-Methylnaphthalene	142	14.810	14.811	-0.001	0	625253	40.0	37.3	

QC Flag Legend

Processing Flags

Reagents:

vmfasa9w_00317	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00191	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent

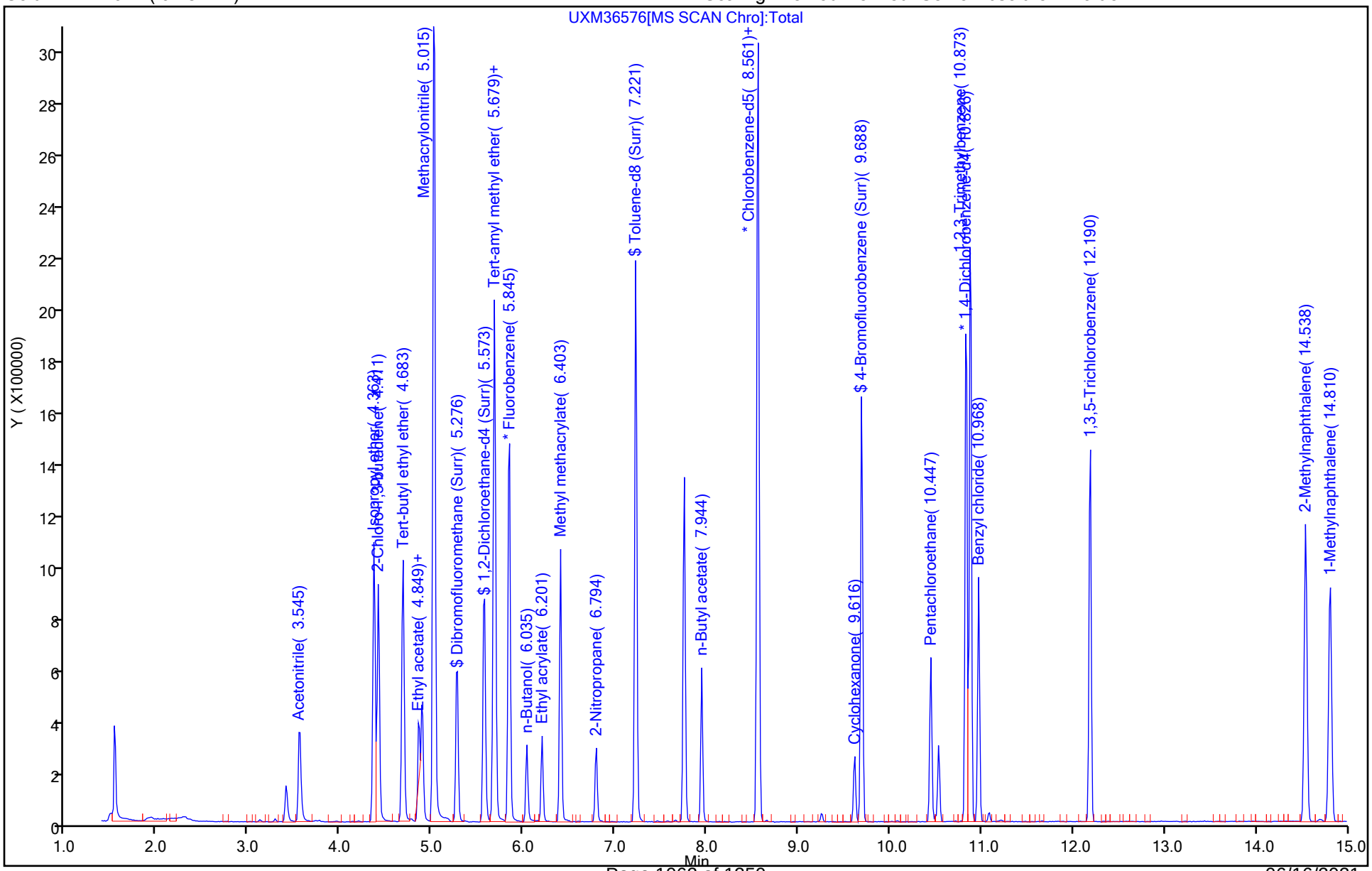
Report Date: 26-Apr-2021 08:39:01 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36576.D

Injection Date:	23-Apr-2021 18:55:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV a9			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-489711/3 Calibration Date: 06/09/2021 08:53

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM37729.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	0.3597	0.3266	0.1000	0.0182	0.0200	-9.2	20.0
Chloromethane	Ave	0.3711	0.2913	0.1000	0.0157	0.0200	-21.5*	20.0
Vinyl chloride	Ave	0.3683	0.3010	0.1000	0.0163	0.0200	-18.3	20.0
Butadiene	Ave	0.3577	0.2743		0.0153	0.0200	-23.3*	20.0
Bromomethane	Lin1		0.1111	0.0500	0.0105	0.0200	-47.4*	20.0
Chloroethane	Ave	0.2067	0.1980	0.0500	0.0192	0.0200	-4.2	20.0
Dichlorofluoromethane	Ave	0.4696	0.4490		0.0191	0.0200	-4.4	20.0
Trichlorofluoromethane	Ave	0.4002	0.3971	0.1000	0.0198	0.0200	-0.8	20.0
Ethyl ether	Ave	0.1785	0.1635		0.0183	0.0200	-8.4	20.0
Acrolein	Ave	0.0109	0.0066		0.0607	0.100	-39.3*	20.0
1,1-Dichloroethene	Ave	0.2222	0.2359	0.1000	0.0212	0.0200	6.2	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1731	0.1883	0.0500	0.0218	0.0200	8.8	20.0
Acetone	Lin1		0.0179	0.0100	0.0378	0.0400	-5.4	50.0
Iodomethane	Ave	0.2949	0.1800		0.0122	0.0200	-39.0*	20.0
Carbon disulfide	Ave	0.7278	0.7818	0.1000	0.0215	0.0200	7.4	20.0
Methyl acetate	Ave	0.1657	0.1144	0.1000	0.0276	0.0400	-30.9	50.0
3-Chloro-1-propene	Ave	0.3878	0.2683		0.0138	0.0200	-30.8*	20.0
Methylene Chloride	Ave	0.2633	0.2726	0.1000	0.0207	0.0200	3.5	50.0
tert-Butyl alcohol	Ave	0.0219	0.0071		0.0645	0.200	-67.8*	20.0
Acrylonitrile	Ave	0.0908	0.0763		0.168	0.200	-16.0	20.0
Methyl tert-butyl ether	Ave	0.6160	0.4565	0.1000	0.0148	0.0200	-25.9*	20.0
trans-1,2-Dichloroethene	Ave	0.2664	0.2636	0.1000	0.0198	0.0200	-1.1	20.0
Hexane	Ave	0.3512	0.3377		0.0192	0.0200	-3.8	20.0
Vinyl acetate	Lin1		0.2797		0.0187	0.0200	-6.6	20.0
1,1-Dichloroethane	Ave	0.4687	0.4352	0.2000	0.0186	0.0200	-7.2	20.0
2-Butanone	Ave	0.0236	0.0197	0.0100	0.0334	0.0400	-16.4	50.0
2,2-Dichloropropane	Ave	0.4110	0.2857		0.0139	0.0200	-30.5*	20.0
cis-1,2-Dichloroethene	Ave	0.2958	0.2881	0.1000	0.0195	0.0200	-2.6	20.0
Bromochloromethane	Ave	0.1306	0.1348		0.0206	0.0200	3.2	20.0
Tetrahydrofuran	Ave	0.0672	0.0480		0.0286	0.0400	-28.6*	20.0
Chloroform	Ave	0.4573	0.4254	0.2000	0.0186	0.0200	-7.0	20.0
1,1,1-Trichloroethane	Ave	0.3941	0.3463	0.1000	0.0176	0.0200	-12.1	20.0
Cyclohexane	Ave	0.4354	0.4201	0.1000	0.0193	0.0200	-3.5	20.0
1,1-Dichloropropene	Ave	0.3399	0.3153		0.0186	0.0200	-7.2	20.0
Carbon tetrachloride	Ave	0.3235	0.2835	0.1000	0.0175	0.0200	-12.4	20.0
Isobutyl alcohol	Ave	0.0069	0.0049		0.354	0.500	-29.1*	20.0
Benzene	Ave	1.010	0.9567	0.5000	0.0189	0.0200	-5.3	20.0
1,2-Dichloroethane	Ave	0.3364	0.2769	0.1000	0.0165	0.0200	-17.7	20.0
n-Heptane	Lin1		0.2135		0.0196	0.0200	-2.1	20.0
Trichloroethene	Ave	0.2625	0.2401	0.1500	0.0183	0.0200	-8.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-489711/3 Calibration Date: 06/09/2021 08:53

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM37729.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	0.4438	0.4512	0.1000	0.0203	0.0200	1.7	20.0
1,2-Dichloropropane	Ave	0.2382	0.2107	0.1000	0.0177	0.0200	-11.5	20.0
1,4-Dioxane	Ave	0.0029	0.0020		0.279	0.400	-30.2	50.0
Dibromomethane	Ave	0.1462	0.1279		0.0175	0.0200	-12.5	20.0
Bromodichloromethane	Ave	0.3399	0.2763	0.1500	0.0163	0.0200	-18.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1366	0.0480		0.0140	0.0400	-64.9*	20.0
cis-1,3-Dichloropropene	Ave	0.3924	0.3254	0.1500	0.0166	0.0200	-17.1	50.0
4-Methyl-2-pentanone	Ave	0.1797	0.1281	0.0500	0.0285	0.0400	-28.7	50.0
Toluene	Ave	1.432	1.366	0.4000	0.0191	0.0200	-4.6	20.0
trans-1,3-Dichloropropene	Ave	0.4496	0.3496	0.1000	0.0156	0.0200	-22.2*	20.0
Ethyl methacrylate	Ave	0.3544	0.2914		0.0164	0.0200	-17.8	20.0
1,1,2-Trichloroethane	Ave	0.2444	0.2065	0.1000	0.0169	0.0200	-15.5	20.0
Tetrachloroethene	Ave	0.2661	0.2501	0.1500	0.0188	0.0200	-6.0	20.0
1,3-Dichloropropane	Ave	0.4464	0.3853		0.0173	0.0200	-13.7	20.0
2-Hexanone	Ave	0.1652	0.1220	0.0500	0.0295	0.0400	-26.2	50.0
Dibromochloromethane	Ave	0.2822	0.2194		0.0155	0.0200	-22.3*	20.0
1,2-Dibromoethane	Ave	0.2435	0.2127		0.0175	0.0200	-12.6	20.0
Chlorobenzene	Ave	0.9137	0.8705	0.3000	0.0191	0.0200	-4.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2841	0.2492		0.0175	0.0200	-12.3	20.0
Ethylbenzene	Ave	0.5176	0.5031		0.0194	0.0200	-2.8	20.0
m-Xylene & p-Xylene	Ave	0.6543	0.6596		0.0202	0.0200	0.8	20.0
o-Xylene	Ave	0.6167	0.6193		0.0201	0.0200	0.4	20.0
Styrene	Ave	0.9433	0.9315	0.3000	0.0197	0.0200	-1.3	20.0
Bromoform	Ave	0.1723	0.1271	0.1000	0.0148	0.0200	-26.2*	20.0
Isopropylbenzene	Ave	1.619	1.596	0.1000	0.0197	0.0200	-1.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5537	0.4481	0.3000	0.0162	0.0200	-19.1	20.0
Bromobenzene	Ave	0.6628	0.6284		0.0190	0.0200	-5.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1878	0.1135		0.0121	0.0200	-39.5*	20.0
1,2,3-Trichloropropane	Ave	0.1809	0.1432		0.0158	0.0200	-20.9*	20.0
n-Propylbenzene	Ave	0.8496	0.8603		0.0203	0.0200	1.3	20.0
2-Chlorotoluene	Ave	0.6884	0.6912		0.0201	0.0200	0.4	20.0
1,3,5-Trimethylbenzene	Ave	2.541	2.492		0.0196	0.0200	-1.9	20.0
4-Chlorotoluene	Ave	0.7179	0.7278		0.0203	0.0200	1.4	20.0
tert-Butylbenzene	Ave	2.190	2.125		0.0194	0.0200	-3.0	20.0
1,2,4-Trimethylbenzene	Ave	2.572	2.427		0.0189	0.0200	-5.6	20.0
sec-Butylbenzene	Ave	3.284	3.206		0.0195	0.0200	-2.4	20.0
1,3-Dichlorobenzene	Ave	1.327	1.305	0.6000	0.0197	0.0200	-1.6	20.0
p-Isopropyltoluene	Ave	2.798	2.746		0.0196	0.0200	-1.9	20.0
1,4-Dichlorobenzene	Ave	1.331	1.296	0.5000	0.0195	0.0200	-2.7	20.0
n-Butylbenzene	Ave	2.529	2.457		0.0194	0.0200	-2.8	20.0
1,2-Dichlorobenzene	Ave	1.229	1.202	0.4000	0.0196	0.0200	-2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-489711/3 Calibration Date: 06/09/2021 08:53

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM37729.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	0.1304	0.0977	0.0500	0.0150	0.0200	-25.1	50.0
1,2,4-Trichlorobenzene	Ave	0.7137	0.6684	0.2000	0.0187	0.0200	-6.3	50.0
Hexachlorobutadiene	Ave	0.3214	0.3253		0.0202	0.0200	1.2	50.0
Naphthalene	Ave	1.813	1.601		0.0177	0.0200	-11.7	50.0
1,2,3-Trichlorobenzene	Ave	0.6054	0.5514		0.0182	0.0200	-8.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2427	0.2371		0.0222	0.0227	-2.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2866	0.2433		0.0193	0.0227	-15.1	20.0
Toluene-d8 (Surr)	Ave	1.219	1.192		0.0222	0.0227	-2.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4689	0.4897		0.0237	0.0227	4.4	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37729.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Jun-2021 08:53:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-003
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Jun-2021 15:15:46 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1685

First Level Reviewer: bosworthh Date: 09-Jun-2021 15:15:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	924421	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	728461	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	402786	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.265	5.265	0.000	94	248526	22.7	22.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	255017	22.7	19.3	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	984559	22.7	22.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	404526	22.7	23.7	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	301912	20.0	18.2	
10 Chloromethane	50	1.897	1.897	0.000	99	269308	20.0	15.7	
11 Vinyl chloride	62	2.015	2.015	0.000	98	278220	20.0	16.3	
12 Butadiene	54	2.051	2.051	0.000	94	253591	20.0	15.3	
13 Bromomethane	94	2.359	2.359	0.000	89	102746	20.0	10.5	
14 Chloroethane	64	2.478	2.478	0.000	99	183043	20.0	19.2	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	415082	20.0	19.1	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	97	367098	20.0	19.8	
17 Ethyl ether	59	3.011	3.011	0.000	87	151133	20.0	18.3	
18 Acrolein	56	3.154	3.154	0.000	99	30697	100.0	60.7	
19 1,1-Dichloroethene	96	3.237	3.237	0.000	97	218030	20.0	21.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.249	0.000	92	174099	20.0	21.8	
21 Acetone	58	3.284	3.284	0.000	99	33094	40.0	37.8	
23 Iodomethane	142	3.391	3.391	0.000	96	166394	20.0	12.2	
24 Carbon disulfide	76	3.450	3.450	0.000	98	722757	20.0	21.5	
27 Methyl acetate	43	3.569	3.569	0.000	97	211520	40.0	27.6	
26 3-Chloro-1-propene	41	3.592	3.592	0.000	92	248025	20.0	13.8	
28 Methylene Chloride	84	3.711	3.711	0.000	86	252027	20.0	20.7	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	65424	200.0	64.5	
30 Acrylonitrile	53	3.925	3.925	0.000	100	705003	200.0	167.9	
31 Methyl tert-butyl ether	73	3.936	3.936	0.000	93	421975	20.0	14.8	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	98	243650	20.0	19.8	
33 Hexane	57	4.197	4.197	0.000	89	312190	20.0	19.2	
35 Vinyl acetate	43	4.340	4.340	0.000	97	258592	20.0	18.7	

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	4.351	4.351	0.000	96	402276	20.0	18.6	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	98	36405	40.0	33.4	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	79	266281	20.0	19.5	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	89	264094	20.0	13.9	
45 Chlorobromomethane	128	5.051	5.051	0.000	96	124586	20.0	20.6	
46 Tetrahydrofuran	42	5.063	5.063	0.000	83	88824	40.0	28.6	
47 Chloroform	83	5.134	5.134	0.000	92	393269	20.0	18.6	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	98	320106	20.0	17.6	
49 Cyclohexane	56	5.348	5.348	0.000	86	388321	20.0	19.3	
51 Carbon tetrachloride	117	5.419	5.419	0.000	87	262039	20.0	17.5	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	98	291482	20.0	18.6	
52 Isobutyl alcohol	41	5.478	5.478	0.000	95	113781	500.0	354.3	
54 Benzene	78	5.597	5.597	0.000	96	884406	20.0	18.9	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	98	255999	20.0	16.5	
56 n-Heptane	57	5.822	5.822	0.000	92	197387	20.0	19.6	
58 Trichloroethene	130	6.154	6.154	0.000	97	221986	20.0	18.3	
60 Methylcyclohexane	83	6.356	6.356	0.000	88	417096	20.0	20.3	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	96	194820	20.0	17.7	
64 1,4-Dioxane	88	6.427	6.427	0.000	92	37112	400.0	279.2	
63 Dibromomethane	93	6.450	6.450	0.000	94	118230	20.0	17.5	
65 Dichlorobromomethane	83	6.605	6.605	0.000	100	255443	20.0	16.3	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	92	88671	40.0	14.0	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	98	300767	20.0	16.6	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.103	0.000	93	236910	40.0	28.5	
70 Toluene	91	7.280	7.280	0.000	99	994966	20.0	19.1	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	90	254706	20.0	15.6	
72 Ethyl methacrylate	69	7.518	7.518	0.000	86	212301	20.0	16.4	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	88	150428	20.0	16.9	
75 Tetrachloroethene	164	7.755	7.755	0.000	97	182154	20.0	18.8	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	86	280679	20.0	17.3	
76 2-Hexanone	43	7.850	7.850	0.000	92	177753	40.0	29.5	
78 Chlorodibromomethane	129	8.016	8.016	0.000	90	159821	20.0	15.5	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	154922	20.0	17.5	
82 Chlorobenzene	112	8.597	8.597	0.000	97	634105	20.0	19.1	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	95	181507	20.0	17.5	
84 Ethylbenzene	106	8.680	8.680	0.000	98	366503	20.0	19.4	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	480503	20.0	20.2	
86 o-Xylene	106	9.166	9.166	0.000	96	451167	20.0	20.1	
87 Styrene	104	9.190	9.190	0.000	95	678530	20.0	19.7	
88 Bromoform	173	9.368	9.368	0.000	97	92593	20.0	14.8	
89 Isopropylbenzene	105	9.510	9.510	0.000	95	1162821	20.0	19.7	
92 1,1,2,2-Tetrachloroethane	83	9.818	9.818	0.000	94	180475	20.0	16.2	
93 Bromobenzene	156	9.842	9.842	0.000	93	253095	20.0	19.0	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	85	45726	20.0	12.1	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	80	57660	20.0	15.8	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	346506	20.0	20.3	
97 2-Chlorotoluene	126	10.020	10.020	0.000	97	278423	20.0	20.1	
99 1,3,5-Trimethylbenzene	105	10.103	10.103	0.000	94	1003856	20.0	19.6	
100 4-Chlorotoluene	126	10.138	10.138	0.000	96	293138	20.0	20.3	
102 tert-Butylbenzene	119	10.411	10.411	0.000	92	855974	20.0	19.4	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	96	977509	20.0	18.9	
105 sec-Butylbenzene	105	10.636	10.636	0.000	93	1291447	20.0	19.5	

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	10.755	10.755	0.000	98	525739	20.0	19.7	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1105951	20.0	19.6	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	521992	20.0	19.5	
111 n-Butylbenzene	91	11.194	11.194	0.000	97	989725	20.0	19.4	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	484149	20.0	19.6	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	87	39349	20.0	15.0	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	269207	20.0	18.7	
116 Hexachlorobutadiene	225	12.973	12.973	0.000	97	131046	20.0	20.2	
117 Naphthalene	128	13.115	13.115	0.000	96	645053	20.0	17.7	
118 1,2,3-Trichlorobenzene	180	13.364	13.364	0.000	96	222098	20.0	18.2	
S 134 Trihalomethanes, Total	1				0		80.0	65.2	
S 158 Total BTEX	1				0		100.0	97.7	
S 133 Xylenes, Total	106				0		40.0	40.2	

QC Flag Legend

Processing Flags

Reagents:

vmrprimw_00439	Amount Added: 16.00	Units: uL	
vmrgas_00387	Amount Added: 16.00	Units: uL	
vmarolistdw_00395	Amount Added: 16.00	Units: uL	
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added: 0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added: 2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added: 0.00	Units:	Run Reagent

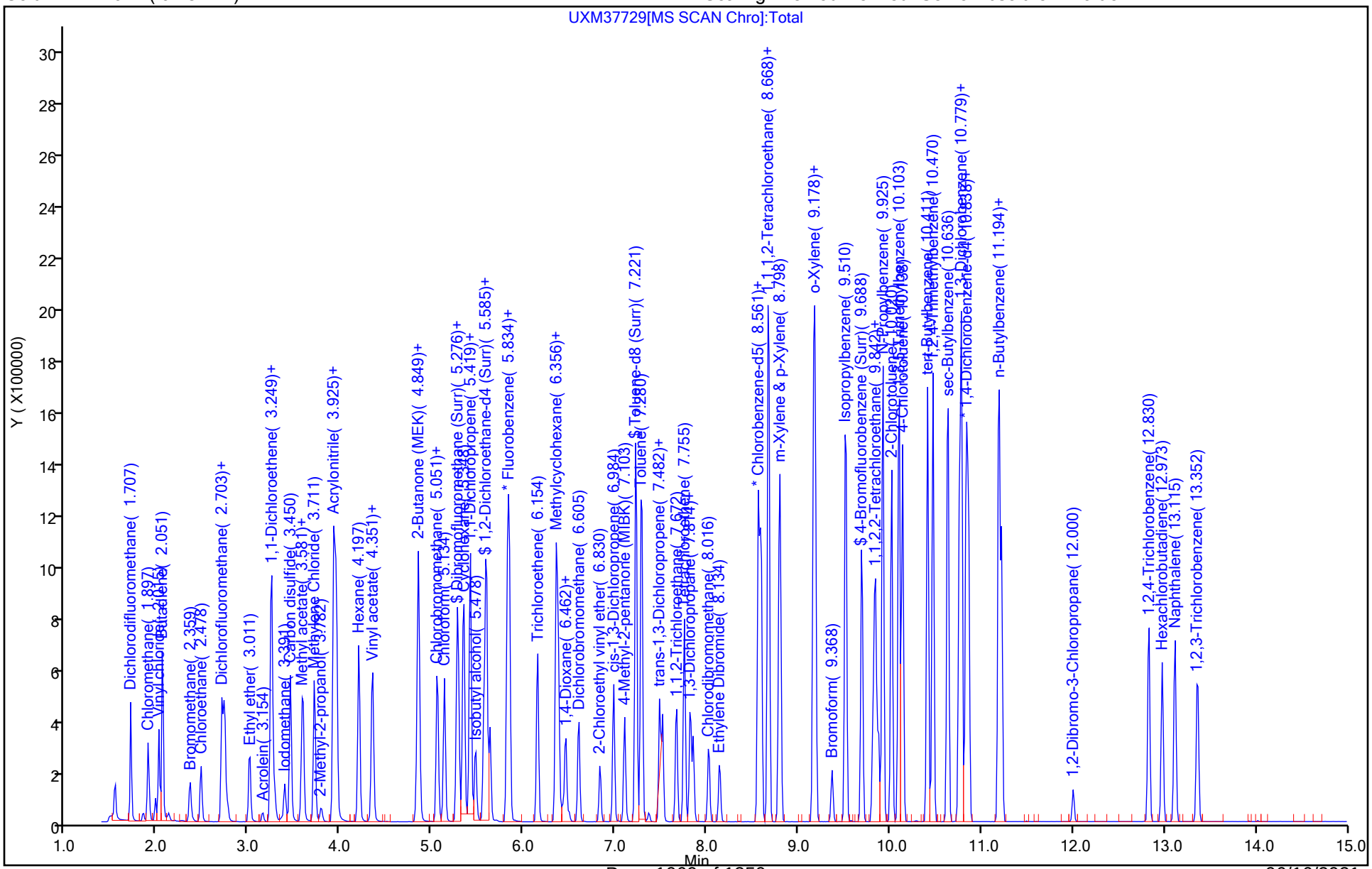
Report Date: 09-Jun-2021 15:15:47 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37729.D

Injection Date:	09-Jun-2021 08:53:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-489711/4 Calibration Date: 06/09/2021 09:17

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 16:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 18:30

Lab File ID: UXM37730.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	0.0316	0.0283		0.179	0.200	-10.5	20.0
Diisopropyl ether	Ave	0.1817	0.1685		0.0186	0.0200	-7.2	20.0
2-Chloro-1,3-butadiene	Ave	0.3819	0.2847		0.0149	0.0200	-25.4*	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.6074	0.4977		0.0164	0.0200	-18.1	20.0
Ethyl acetate	Ave	0.1689	0.1296		0.0307	0.0400	-23.3*	20.0
Propionitrile	Ave	0.0348	0.0319		0.183	0.200	-8.5	20.0
Methacrylonitrile	Ave	0.1236	0.0891		0.144	0.200	-28.0*	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5775	0.4707		0.0163	0.0200	-18.5	20.0
n-Butanol	Ave	0.0049	0.0052		0.529	0.500	5.7	20.0
Ethyl acrylate	Ave	0.2515	0.1908		0.0152	0.0200	-24.1*	20.0
Methyl methacrylate	Ave	0.1743	0.1212		0.0278	0.0400	-30.5*	20.0
2-Nitropropane	Lin1		0.0298		0.0168	0.0400	-58.1*	20.0
n-Butyl acetate	Ave	0.2902	0.2395		0.0165	0.0200	-17.4	20.0
1-Chlorohexane	Ave	0.5303	0.4748		0.0179	0.0200	-10.5	20.0
Cyclohexanone	Lin1		0.0148		0.155	0.200	-22.3*	20.0
Pentachloroethane	Ave	0.1090	0.1311		0.0481	0.0400	20.3*	20.0
1,2,3-Trimethylbenzene	Ave	2.601	2.339		0.0180	0.0200	-10.1	20.0
Benzyl chloride	Ave	0.2725	0.2296		0.0168	0.0200	-15.8	20.0
1,3,5-Trichlorobenzene	Ave	0.9222	0.8230		0.0178	0.0200	-10.8	20.0
2-Methylnaphthalene	Ave	0.7431	0.7107		0.0383	0.0400	-4.4	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37730.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 09-Jun-2021 09:17:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-004
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Jun-2021 10:15:25 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1685

First Level Reviewer: bosworthh Date: 09-Jun-2021 10:15:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	860607	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	87	684704	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	379904	20.0	20.0	
25 Acetonitrile	41	3.557	3.557	0.000	98	243589	200.0	179.0	
36 Isopropyl ether	87	4.363	4.363	0.000	94	145023	20.0	18.6	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	89	245034	20.0	14.9	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	96	428300	20.0	16.4	
43 Ethyl acetate	43	4.861	4.861	0.000	98	223118	40.0	30.7	
42 Propionitrile	54	4.897	4.897	0.000	99	274253	200.0	182.9	
44 Methacrylonitrile	41	5.015	5.015	0.000	90	766403	200.0	144.1	
163 Isooctane	57	5.680	5.680	0.000	96	608696	20.0	17.9	
55 Tert-amyl methyl ether	73	5.680	5.680	0.000	96	405104	20.0	16.3	
57 n-Butanol	56	6.035	6.035	0.000	84	112189	500.0	528.7	
59 Ethyl acrylate	55	6.201	6.201	0.000	99	164186	20.0	15.2	
62 Methyl methacrylate	41	6.403	6.403	0.000	85	208568	40.0	27.8	
66 2-Nitropropane	41	6.794	6.794	0.000	96	51361	40.0	16.8	
77 n-Butyl acetate	43	7.945	7.945	0.000	94	206155	20.0	16.5	
81 1-Chlorohexane	91	8.549	8.549	0.000	94	325073	20.0	17.9	
91 Cyclohexanone	55	9.617	9.617	0.000	88	56171	200.0	155.4	
103 Pentachloroethane	167	10.447	10.447	0.000	93	179596	40.0	48.1	
109 1,2,3-Trimethylbenzene	105	10.885	10.885	0.000	97	888589	20.0	18.0	
110 Benzyl chloride	126	10.968	10.968	0.000	100	87225	20.0	16.8	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	98	312673	20.0	17.8	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	93	539992	40.0	38.3	
162 1-Methylnaphthalene	142	14.811	14.811	0.000	0	465658	40.0	40.0	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00394	Amount Added:	16.00	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

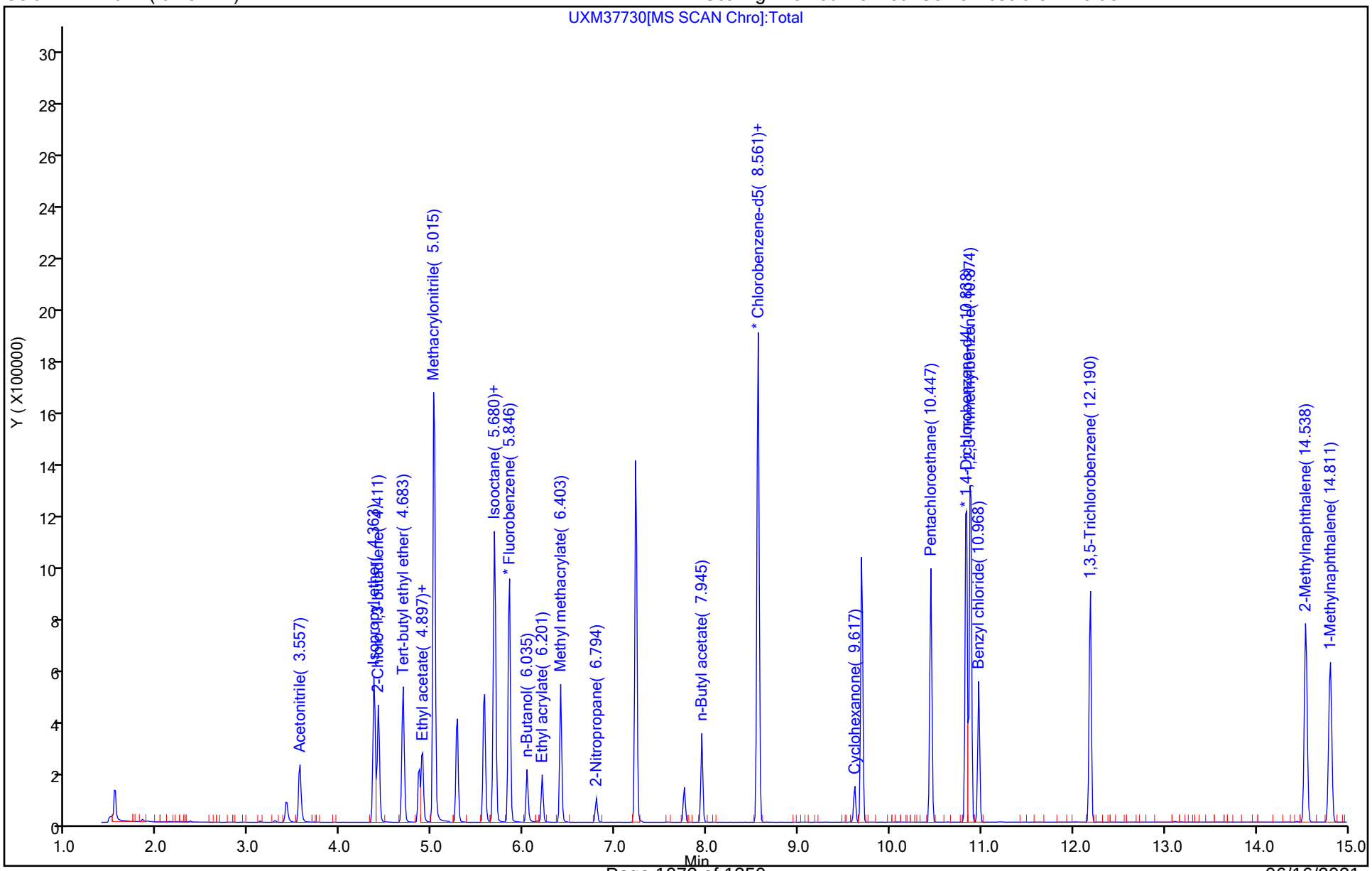
Report Date: 09-Jun-2021 10:15:26 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37730.D

Injection Date:	09-Jun-2021 09:17:30	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-490456/3 Calibration Date: 06/14/2021 10:27

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM37866.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	0.3597	0.3529	0.1000	0.0196	0.0200	-1.9	20.0
Chloromethane	Ave	0.3711	0.3354	0.1000	0.0181	0.0200	-9.6	20.0
Vinyl chloride	Ave	0.3683	0.3449	0.1000	0.0187	0.0200	-6.3	20.0
Butadiene	Ave	0.3577	0.3185		0.0178	0.0200	-11.0	20.0
Bromomethane	Lin1		0.1950	0.0500	0.0188	0.0200	-6.0	20.0
Chloroethane	Ave	0.2067	0.2164	0.0500	0.0209	0.0200	4.7	20.0
Dichlorofluoromethane	Ave	0.4696	0.4940		0.0210	0.0200	5.2	20.0
Trichlorofluoromethane	Ave	0.4002	0.4427	0.1000	0.0221	0.0200	10.6	20.0
Ethyl ether	Ave	0.1785	0.1847		0.0207	0.0200	3.4	20.0
Acrolein	Ave	0.0109	0.0079		0.0718	0.100	-28.2*	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1731	0.1994	0.0500	0.0230	0.0200	15.2	20.0
1,1-Dichloroethene	Ave	0.2222	0.2444	0.1000	0.0220	0.0200	10.0	20.0
Acetone	Lin1		0.0197	0.0100	0.0419	0.0400	4.6	50.0
Iodomethane	Ave	0.2949	0.3401		0.0231	0.0200	15.3	20.0
Carbon disulfide	Ave	0.7278	0.7990	0.1000	0.0220	0.0200	9.8	20.0
Methyl acetate	Ave	0.1657	0.1440	0.1000	0.0348	0.0400	-13.1	50.0
3-Chloro-1-propene	Ave	0.3878	0.3271		0.0169	0.0200	-15.6	20.0
Methylene Chloride	Ave	0.2633	0.2752	0.1000	0.0209	0.0200	4.5	50.0
tert-Butyl alcohol	Ave	0.0219	0.0193		0.176	0.200	-12.1	20.0
Acrylonitrile	Ave	0.0908	0.0859		0.189	0.200	-5.4	20.0
Methyl tert-butyl ether	Ave	0.6160	0.5871	0.1000	0.0191	0.0200	-4.7	20.0
trans-1,2-Dichloroethene	Ave	0.2664	0.2795	0.1000	0.0210	0.0200	4.9	20.0
Hexane	Ave	0.3512	0.3644		0.0208	0.0200	3.8	20.0
Vinyl acetate	Lin1		0.3388		0.0225	0.0200	12.5	20.0
1,1-Dichloroethane	Ave	0.4687	0.4649	0.2000	0.0198	0.0200	-0.8	20.0
2-Butanone	Ave	0.0236	0.0239	0.0100	0.0407	0.0400	1.7	50.0
2,2-Dichloropropane	Ave	0.4110	0.3730		0.0182	0.0200	-9.2	20.0
cis-1,2-Dichloroethene	Ave	0.2958	0.3040	0.1000	0.0206	0.0200	2.8	20.0
Bromochloromethane	Ave	0.1306	0.1361		0.0208	0.0200	4.2	20.0
Tetrahydrofuran	Ave	0.0672	0.0571		0.0340	0.0400	-15.0	20.0
Chloroform	Ave	0.4573	0.4519	0.2000	0.0198	0.0200	-1.2	20.0
1,1,1-Trichloroethane	Ave	0.3941	0.3722	0.1000	0.0189	0.0200	-5.6	20.0
Cyclohexane	Ave	0.4354	0.4566	0.1000	0.0210	0.0200	4.9	20.0
1,1-Dichloropropene	Ave	0.3399	0.3510		0.0206	0.0200	3.2	20.0
Carbon tetrachloride	Ave	0.3235	0.3094	0.1000	0.0191	0.0200	-4.4	20.0
Isobutyl alcohol	Ave	0.0069	0.0053		0.383	0.500	-23.4*	20.0
Benzene	Ave	1.010	1.062	0.5000	0.0210	0.0200	5.1	20.0
1,2-Dichloroethane	Ave	0.3364	0.3090	0.1000	0.0184	0.0200	-8.2	20.0
n-Heptane	Lin1		0.2128		0.0195	0.0200	-2.5	20.0
Trichloroethene	Ave	0.2625	0.2751	0.1500	0.0210	0.0200	4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-490456/3 Calibration Date: 06/14/2021 10:27

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM37866.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	0.4438	0.4695	0.1000	0.0212	0.0200	5.8	20.0
1,2-Dichloropropane	Ave	0.2382	0.2475	0.1000	0.0208	0.0200	3.9	20.0
1,4-Dioxane	Ave	0.0029	0.0025		0.346	0.400	-13.5	50.0
Dibromomethane	Ave	0.1462	0.1386		0.0190	0.0200	-5.2	20.0
Bromodichloromethane	Ave	0.3399	0.3145	0.1500	0.0185	0.0200	-7.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1366	0.1209		0.0354	0.0400	-11.5	20.0
cis-1,3-Dichloropropene	Ave	0.3924	0.3844	0.1500	0.0196	0.0200	-2.0	50.0
4-Methyl-2-pentanone	Ave	0.1797	0.1403	0.0500	0.0312	0.0400	-22.0	50.0
Toluene	Ave	1.432	1.466	0.4000	0.0205	0.0200	2.3	20.0
trans-1,3-Dichloropropene	Ave	0.4496	0.4420	0.1000	0.0197	0.0200	-1.7	20.0
Ethyl methacrylate	Ave	0.3544	0.3101		0.0175	0.0200	-12.5	20.0
1,1,2-Trichloroethane	Ave	0.2444	0.2503	0.1000	0.0205	0.0200	2.4	20.0
Tetrachloroethene	Ave	0.2661	0.2735	0.1500	0.0206	0.0200	2.8	20.0
1,3-Dichloropropane	Ave	0.4464	0.4618		0.0207	0.0200	3.4	20.0
2-Hexanone	Ave	0.1652	0.1266	0.0500	0.0307	0.0400	-23.3	50.0
Dibromochloromethane	Ave	0.2822	0.2679		0.0190	0.0200	-5.1	20.0
1,2-Dibromoethane	Ave	0.2435	0.2579		0.0212	0.0200	5.9	20.0
Chlorobenzene	Ave	0.9137	0.9450	0.3000	0.0207	0.0200	3.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2841	0.2885		0.0203	0.0200	1.5	20.0
Ethylbenzene	Ave	0.5176	0.5220		0.0202	0.0200	0.8	20.0
m-Xylene & p-Xylene	Ave	0.6543	0.6546		0.0200	0.0200	0.0	20.0
o-Xylene	Ave	0.6167	0.6305		0.0204	0.0200	2.2	20.0
Styrene	Ave	0.9433	0.9643	0.3000	0.0204	0.0200	2.2	20.0
Bromoform	Ave	0.1723	0.1538	0.1000	0.0179	0.0200	-10.7	20.0
Isopropylbenzene	Ave	1.619	1.616	0.1000	0.0200	0.0200	-0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5537	0.5954	0.3000	0.0215	0.0200	7.5	20.0
Bromobenzene	Ave	0.6628	0.6946		0.0210	0.0200	4.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1878	0.1600		0.0170	0.0200	-14.8	20.0
1,2,3-Trichloropropane	Ave	0.1809	0.1860		0.0206	0.0200	2.9	20.0
n-Propylbenzene	Ave	0.8496	0.8897		0.0209	0.0200	4.7	20.0
2-Chlorotoluene	Ave	0.6884	0.7447		0.0216	0.0200	8.2	20.0
1,3,5-Trimethylbenzene	Ave	2.541	2.627		0.0207	0.0200	3.4	20.0
4-Chlorotoluene	Ave	0.7179	0.7763		0.0216	0.0200	8.1	20.0
tert-Butylbenzene	Ave	2.190	2.257		0.0206	0.0200	3.0	20.0
1,2,4-Trimethylbenzene	Ave	2.572	2.622		0.0204	0.0200	2.0	20.0
sec-Butylbenzene	Ave	3.284	3.380		0.0206	0.0200	2.9	20.0
1,3-Dichlorobenzene	Ave	1.327	1.396	0.6000	0.0210	0.0200	5.2	20.0
p-Isopropyltoluene	Ave	2.798	2.914		0.0208	0.0200	4.1	20.0
1,4-Dichlorobenzene	Ave	1.331	1.400	0.5000	0.0210	0.0200	5.2	20.0
n-Butylbenzene	Ave	2.529	2.633		0.0208	0.0200	4.1	20.0
1,2-Dichlorobenzene	Ave	1.229	1.294	0.4000	0.0211	0.0200	5.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-490456/3 Calibration Date: 06/14/2021 10:27

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 12:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 14:53

Lab File ID: UXM37866.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	0.1304	0.1249	0.0500	0.0192	0.0200	-4.2	50.0
1,2,4-Trichlorobenzene	Ave	0.7137	0.7304	0.2000	0.0205	0.0200	2.3	50.0
Hexachlorobutadiene	Ave	0.3214	0.3397		0.0211	0.0200	5.7	50.0
Naphthalene	Ave	1.813	1.878		0.0207	0.0200	3.6	50.0
1,2,3-Trichlorobenzene	Ave	0.6054	0.6098		0.0201	0.0200	0.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2427	0.2245		0.0210	0.0227	-7.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2866	0.2378		0.0188	0.0227	-17.0	20.0
Toluene-d8 (Surr)	Ave	1.219	1.157		0.0215	0.0227	-5.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4689	0.4671		0.0226	0.0227	-0.4	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37866.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Jun-2021 10:27:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-003
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 10:48:12 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 10:47:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.845	0.000	99	922482	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	708663	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	374558	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	234846	22.7	21.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	248729	22.7	18.8	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	929766	22.7	21.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	88	375405	22.7	22.6	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	325583	20.0	19.6	
10 Chloromethane	50	1.897	1.897	0.000	99	309408	20.0	18.1	
11 Vinyl chloride	62	2.015	2.015	0.000	97	318178	20.0	18.7	
12 Butadiene	54	2.051	2.051	0.000	94	293818	20.0	17.8	
13 Bromomethane	94	2.359	2.359	0.000	89	179897	20.0	18.8	
14 Chloroethane	64	2.478	2.478	0.000	98	199634	20.0	20.9	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	455748	20.0	21.0	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	99	408400	20.0	22.1	
17 Ethyl ether	59	3.011	3.011	0.000	87	170352	20.0	20.7	
18 Acrolein	56	3.154	3.154	0.000	99	36233	100.0	71.8	
19 1,1-Dichloroethene	96	3.248	3.248	0.000	97	225462	20.0	22.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.248	3.248	0.000	92	183905	20.0	23.0	
21 Acetone	58	3.284	3.284	0.000	100	36320	40.0	41.9	
23 Iodomethane	142	3.391	3.391	0.000	96	313735	20.0	23.1	
24 Carbon disulfide	76	3.450	3.450	0.000	98	737054	20.0	22.0	
27 Methyl acetate	43	3.569	3.569	0.000	96	265702	40.0	34.8	
26 3-Chloro-1-propene	41	3.592	3.592	0.000	92	301758	20.0	16.9	
28 Methylene Chloride	84	3.711	3.711	0.000	87	253869	20.0	20.9	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	177924	200.0	175.8	
30 Acrylonitrile	53	3.924	3.924	0.000	99	792604	200.0	189.2	
31 Methyl tert-butyl ether	73	3.948	3.948	0.000	93	541575	20.0	19.1	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	98	257791	20.0	21.0	
33 Hexane	57	4.197	4.197	0.000	88	336146	20.0	20.8	
35 Vinyl acetate	43	4.339	4.339	0.000	97	312544	20.0	22.5	

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	4.351	4.351	0.000	96	428899	20.0	19.8	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	98	44186	40.0	40.7	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	86	344128	20.0	18.2	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	79	280437	20.0	20.6	
45 Chlorobromomethane	128	5.051	5.051	0.000	98	125533	20.0	20.8	
46 Tetrahydrofuran	42	5.063	5.063	0.000	85	105407	40.0	34.0	
47 Chloroform	83	5.134	5.134	0.000	92	416880	20.0	19.8	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	98	343361	20.0	18.9	
49 Cyclohexane	56	5.347	5.347	0.000	86	421164	20.0	21.0	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	97	323766	20.0	20.6	
51 Carbon tetrachloride	117	5.419	5.419	0.000	85	285405	20.0	19.1	
52 Isobutyl alcohol	41	5.478	5.478	0.000	95	122671	500.0	382.8	
54 Benzene	78	5.596	5.596	0.000	96	979486	20.0	21.0	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	97	285008	20.0	18.4	
56 n-Heptane	57	5.822	5.822	0.000	87	196272	20.0	19.5	
58 Trichloroethene	130	6.154	6.154	0.000	97	253815	20.0	21.0	
60 Methylcyclohexane	83	6.355	6.355	0.000	88	433137	20.0	21.2	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	97	228308	20.0	20.8	
64 1,4-Dioxane	88	6.427	6.427	0.000	91	45883	400.0	345.9	
63 Dibromomethane	93	6.462	6.462	0.000	95	127855	20.0	19.0	
65 Dichlorobromomethane	83	6.604	6.604	0.000	99	290166	20.0	18.5	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	92	223057	40.0	35.4	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	98	354624	20.0	19.6	
69 4-Methyl-2-pentanone (MIBK)	43	7.102	7.102	0.000	93	258808	40.0	31.2	
70 Toluene	91	7.292	7.292	0.000	99	1038831	20.0	20.5	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	95	313197	20.0	19.7	
72 Ethyl methacrylate	69	7.518	7.518	0.000	86	219753	20.0	17.5	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	89	177411	20.0	20.5	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	193805	20.0	20.6	
74 1,3-Dichloropropane	76	7.826	7.826	0.000	85	327258	20.0	20.7	
76 2-Hexanone	43	7.850	7.850	0.000	90	179501	40.0	30.7	
78 Chlorodibromomethane	129	8.016	8.016	0.000	89	189850	20.0	19.0	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	182742	20.0	21.2	
82 Chlorobenzene	112	8.597	8.597	0.000	96	669677	20.0	20.7	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	96	204417	20.0	20.3	
84 Ethylbenzene	106	8.680	8.680	0.000	98	369916	20.0	20.2	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	96	463875	20.0	20.0	
86 o-Xylene	106	9.166	9.166	0.000	96	446808	20.0	20.4	
87 Styrene	104	9.190	9.190	0.000	95	683353	20.0	20.4	
88 Bromoform	173	9.367	9.367	0.000	97	109020	20.0	17.9	
89 Isopropylbenzene	105	9.522	9.522	0.000	95	1144976	20.0	20.0	
92 1,1,2,2-Tetrachloroethane	83	9.818	9.818	0.000	94	223009	20.0	21.5	
93 Bromobenzene	156	9.842	9.842	0.000	91	260169	20.0	21.0	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	88	59918	20.0	17.0	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	79	69682	20.0	20.6	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	333235	20.0	20.9	
97 2-Chlorotoluene	126	10.020	10.020	0.000	97	278926	20.0	21.6	
99 1,3,5-Trimethylbenzene	105	10.103	10.103	0.000	94	984147	20.0	20.7	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	290778	20.0	21.6	
102 tert-Butylbenzene	119	10.411	10.411	0.000	92	845257	20.0	20.6	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	96	982182	20.0	20.4	
105 sec-Butylbenzene	105	10.636	10.636	0.000	93	1265858	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	10.755	10.755	0.000	97	522794	20.0	21.0	
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1091581	20.0	20.8	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	97	524461	20.0	21.0	
111 n-Butylbenzene	91	11.194	11.194	0.000	97	986228	20.0	20.8	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	484706	20.0	21.1	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	87	46764	20.0	19.2	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	273563	20.0	20.5	
116 Hexachlorobutadiene	225	12.972	12.972	0.000	97	127239	20.0	21.1	
117 Naphthalene	128	13.115	13.115	0.000	96	703351	20.0	20.7	
118 1,2,3-Trichlorobenzene	180	13.364	13.364	0.000	96	228406	20.0	20.1	
S 134 Trihalomethanes, Total	1				0		80.0	75.1	
S 158 Total BTEX	1				0		100.0	102.1	
S 133 Xylenes, Total	106				0		40.0	40.5	

QC Flag Legend

Processing Flags

Reagents:

vmrprimw_00439	Amount Added: 16.00	Units: uL		
vmrgas_00388	Amount Added: 16.00	Units: uL		
vmarolistdw_00396	Amount Added: 16.00	Units: uL		
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00195	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00087	Amount Added: 2.27	Units: uL	Run Reagent	
vm40ml_vials_00016	Amount Added: 0.00	Units:	Run Reagent	

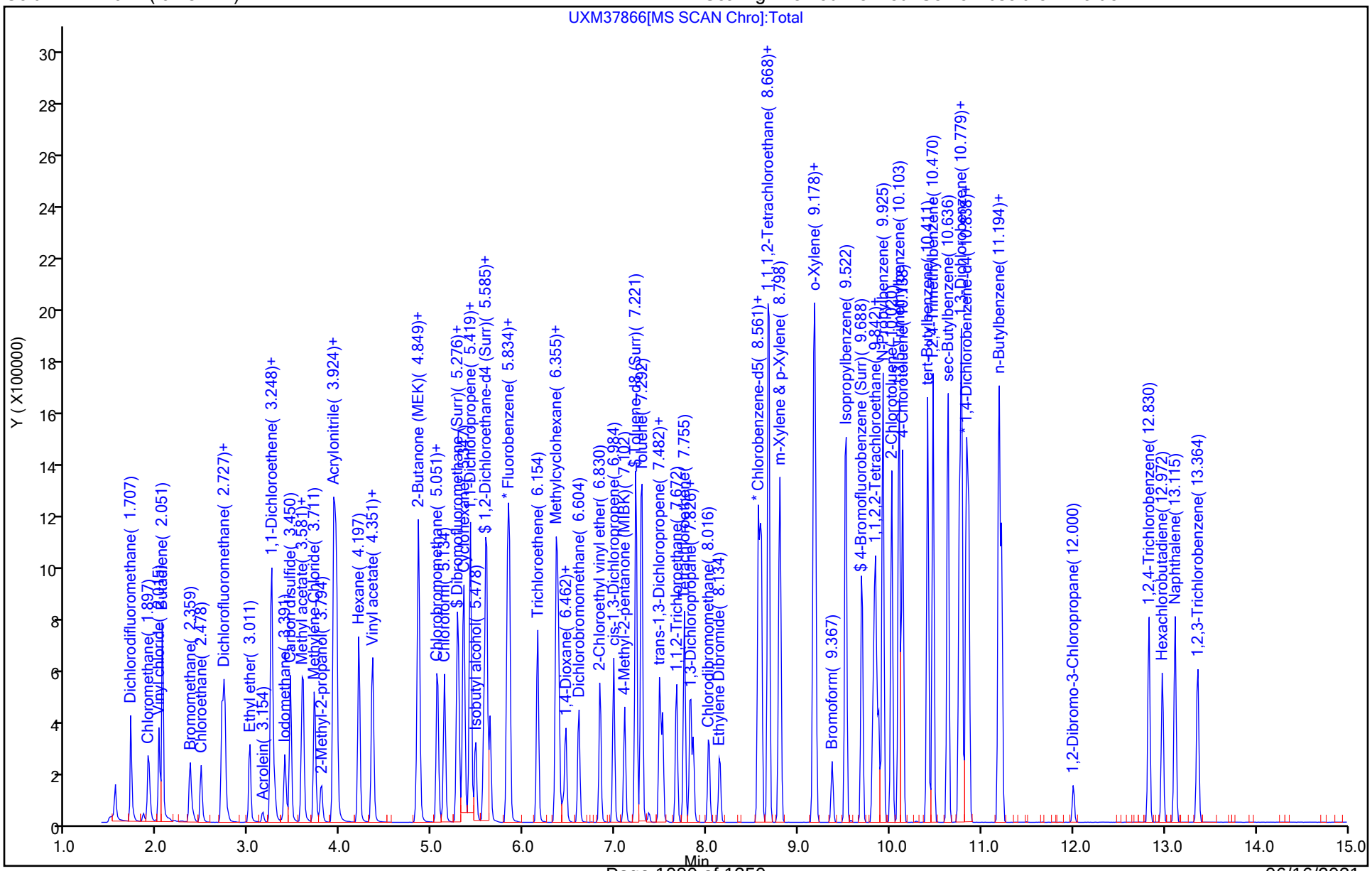
Report Date: 14-Jun-2021 10:48:13 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37866.D

Injection Date:	14-Jun-2021 10:27:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-490456/4 Calibration Date: 06/14/2021 10:52

Instrument ID: A3UX16 Calib Start Date: 04/23/2021 16:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/23/2021 18:30

Lab File ID: UXM37867.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	0.0316	0.0309		0.195	0.200	-2.4	20.0
Diisopropyl ether	Ave	0.1817	0.1833		0.0202	0.0200	0.9	20.0
2-Chloro-1,3-butadiene	Ave	0.3819	0.3257		0.0171	0.0200	-14.7	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.6074	0.5698		0.0188	0.0200	-6.2	20.0
Ethyl acetate	Ave	0.1689	0.1509		0.0357	0.0400	-10.7	20.0
Propionitrile	Ave	0.0348	0.0311		0.179	0.200	-10.7	20.0
Methacrylonitrile	Ave	0.1236	0.1044		0.169	0.200	-15.6	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5775	0.5326		0.0184	0.0200	-7.8	20.0
n-Butanol	Ave	0.0049	0.0046		0.464	0.500	-7.2	20.0
Ethyl acrylate	Ave	0.2515	0.2160		0.0172	0.0200	-14.1	20.0
Methyl methacrylate	Ave	0.1743	0.1394		0.0320	0.0400	-20.1*	20.0
2-Nitropropane	Lin1		0.0390		0.0224	0.0400	-44.1*	20.0
n-Butyl acetate	Ave	0.2902	0.2329		0.0161	0.0200	-19.7	20.0
1-Chlorohexane	Ave	0.5303	0.4921		0.0186	0.0200	-7.2	20.0
Cyclohexanone	Lin1		0.0161		0.170	0.200	-15.0	20.0
Pentachloroethane	Ave	0.1090	0.1530		0.0561	0.0400	40.4*	20.0
1,2,3-Trimethylbenzene	Ave	2.601	2.405		0.0185	0.0200	-7.5	20.0
Benzyl chloride	Ave	0.2725	0.2705		0.0199	0.0200	-0.7	20.0
1,3,5-Trichlorobenzene	Ave	0.9222	0.8626		0.0187	0.0200	-6.5	20.0
2-Methylnaphthalene	Ave	0.7431	0.8303		0.0447	0.0400	11.7	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37867.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 14-Jun-2021 10:52:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-004
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 11:53:17 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 11:12:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	916230	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	85	695739	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	367252	20.0	20.0	
25 Acetonitrile	41	3.557	3.557	0.000	99	282767	200.0	195.1	
36 Isopropyl ether	87	4.363	4.363	0.000	95	167970	20.0	20.2	
37 2-Chloro-1,3-butadiene	53	4.411	4.411	0.000	89	298418	20.0	17.1	
38 Tert-butyl ethyl ether	59	4.683	4.683	0.000	96	522078	20.0	18.8	
43 Ethyl acetate	43	4.861	4.861	0.000	98	276486	40.0	35.7	
42 Propionitrile	54	4.897	4.897	0.000	99	285149	200.0	178.7	
44 Methacrylonitrile	41	5.015	5.015	0.000	89	956116	200.0	168.8	
163 Isooctane	57	5.679	5.679	0.000	96	677262	20.0	18.7	
55 Tert-amyl methyl ether	73	5.679	5.679	0.000	96	487972	20.0	18.4	
57 n-Butanol	56	6.035	6.035	0.000	83	104783	500.0	463.8	
59 Ethyl acrylate	55	6.201	6.201	0.000	99	197942	20.0	17.2	
62 Methyl methacrylate	41	6.403	6.403	0.000	86	255381	40.0	32.0	
66 2-Nitropropane	41	6.794	6.794	0.000	96	71489	40.0	22.4	
77 n-Butyl acetate	43	7.944	7.944	0.000	95	213388	20.0	16.1	
81 1-Chlorohexane	91	8.561	8.561	0.000	93	342349	20.0	18.6	
91 Cyclohexanone	55	9.617	9.617	0.000	89	59212	200.0	170.0	
103 Pentachloroethane	167	10.447	10.447	0.000	94	212865	40.0	56.1	
109 1,2,3-Trimethylbenzene	105	10.885	10.885	0.000	97	883059	20.0	18.5	
110 Benzyl chloride	126	10.968	10.968	0.000	99	99335	20.0	19.9	
114 1,3,5-Trichlorobenzene	180	12.190	12.190	0.000	97	316798	20.0	18.7	
119 2-Methylnaphthalene	142	14.538	14.538	0.000	93	609889	40.0	44.7	
162 1-Methylnaphthalene	142	14.811	14.811	0.000	0	521441	40.0	46.3	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00394	Amount Added: 16.00	Units: uL
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL

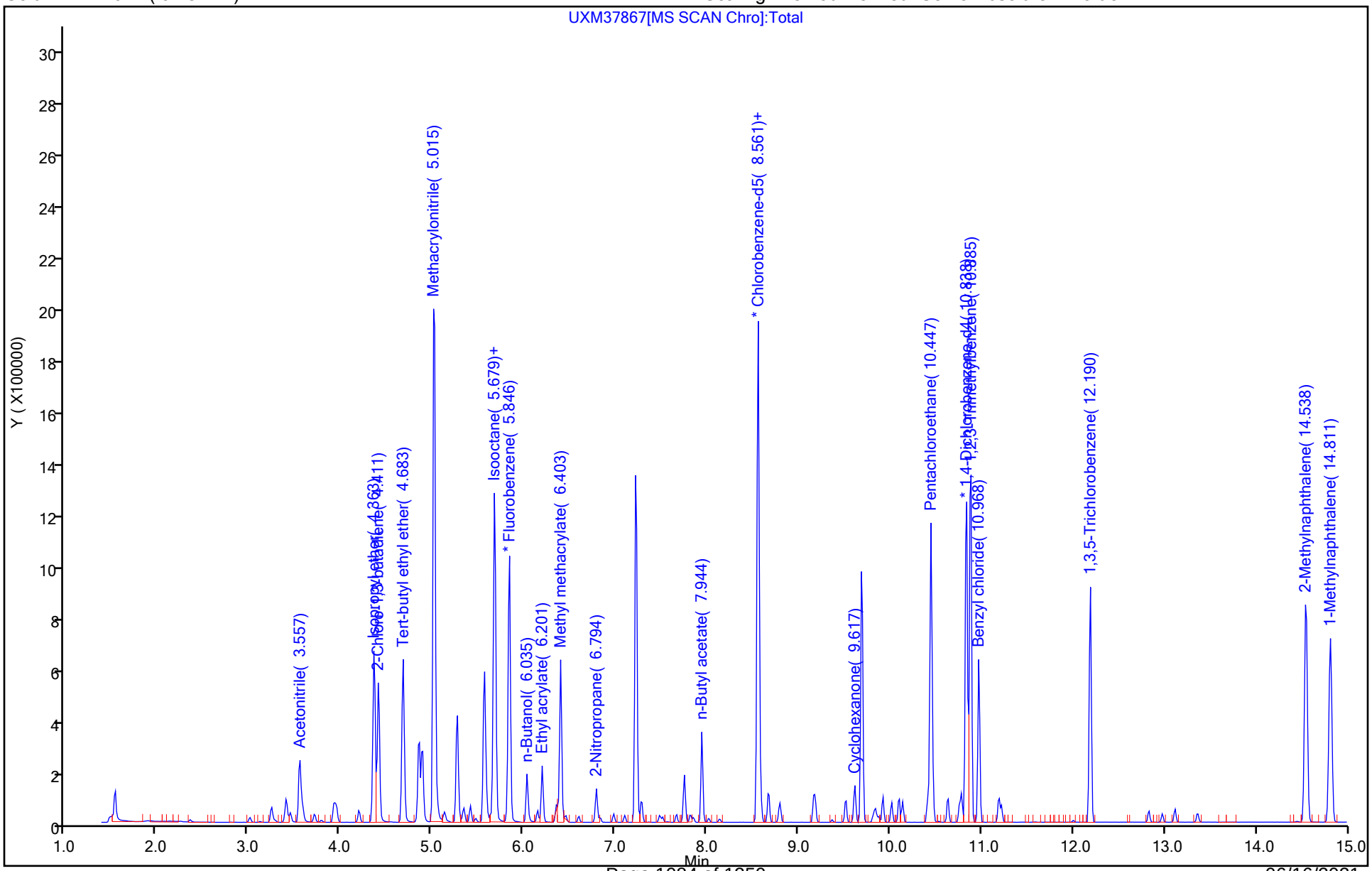
Report Date: 14-Jun-2021 11:53:17 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37867.D

Injection Date:	14-Jun-2021 10:52:30	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-489988/15 Calibration Date: 06/10/2021 13:44

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 11:06

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 13:21

Lab File ID: UX995914.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	0.5837	0.4581	0.1000	0.0157	0.0200	-21.5	30.0
Chloromethane	Ave	0.5139	0.4904	0.1000	0.0191	0.0200	-4.6	30.0
Vinyl chloride	Ave	0.5082	0.5495	0.1000	0.0216	0.0200	8.1	30.0
Butadiene	Ave	0.4719	0.4354		0.0185	0.0200	-7.7	30.0
Bromomethane	Ave	0.4125	0.3989	0.0500	0.0193	0.0200	-3.3	30.0
Chloroethane	Ave	0.3790	0.3913	0.0500	0.0206	0.0200	3.2	30.0
Dichlorofluoromethane	Ave	0.8661	0.9106		0.0210	0.0200	5.1	30.0
Trichlorofluoromethane	Ave	0.8694	0.8856	0.1000	0.0204	0.0200	1.9	30.0
Ethyl ether	Ave	0.3570	0.3358		0.0188	0.0200	-5.9	30.0
Acrolein	Ave	0.0124	0.0240		0.193	0.100	93.3*	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.5117	0.4365	0.0500	0.0171	0.0200	-14.7	30.0
1,1-Dichloroethene	Ave	0.6732	0.6084	0.1000	0.0181	0.0200	-9.6	30.0
Acetone	Lin1		0.0301	0.0100	0.0373	0.0400	-6.8	50.0
Iodomethane	Ave	0.6595	0.6196		0.0188	0.0200	-6.0	30.0
Carbon disulfide	Ave	1.330	1.085	0.1000	0.0163	0.0200	-18.4	30.0
3-Chloro-1-propene	Ave	0.6759	0.5944		0.0176	0.0200	-12.1	30.0
Methyl acetate	Ave	0.2221	0.2291	0.1000	0.0413	0.0400	3.2	50.0
Methylene Chloride	Ave	0.5695	0.5233	0.1000	0.0184	0.0200	-8.1	50.0
tert-Butyl alcohol	Ave	0.0419	0.0434		0.207	0.200	3.6	30.0
Acrylonitrile	Ave	0.1268	0.1243		0.196	0.200	-1.9	30.0
Methyl tert-butyl ether	Ave	1.451	1.411	0.1000	0.0195	0.0200	-2.7	30.0
trans-1,2-Dichloroethene	Ave	0.6524	0.6279	0.1000	0.0192	0.0200	-3.8	30.0
Hexane	Ave	0.6932	0.5568		0.0161	0.0200	-19.7	30.0
1,1-Dichloroethane	Ave	0.8914	0.8451	0.2000	0.0190	0.0200	-5.2	30.0
Vinyl acetate	Ave	0.7730	0.6682		0.0173	0.0200	-13.6	30.0
2-Butanone	Ave	0.0463	0.0489	0.0100	0.0423	0.0400	5.8	50.0
cis-1,2-Dichloroethene	Ave	0.5855	0.5926	0.1000	0.0202	0.0200	1.2	30.0
2,2-Dichloropropane	Ave	0.9182	0.8779		0.0191	0.0200	-4.4	30.0
Bromochloromethane	Ave	0.3574	0.3333		0.0187	0.0200	-6.7	30.0
Tetrahydrofuran	Ave	0.1045	0.0976		0.0374	0.0400	-6.6	30.0
Chloroform	Ave	0.9399	0.9244	0.2000	0.0197	0.0200	-1.7	30.0
1,1,1-Trichloroethane	Ave	0.9322	0.9177	0.1000	0.0197	0.0200	-1.6	30.0
Cyclohexane	Ave	0.9153	0.7953	0.1000	0.0174	0.0200	-13.1	30.0
1,1-Dichloropropene	Ave	0.7243	0.6831		0.0189	0.0200	-5.7	30.0
Carbon tetrachloride	Ave	0.8265	0.7943	0.1000	0.0192	0.0200	-3.9	30.0
Isobutyl alcohol	Ave	0.0111	0.0103		0.464	0.500	-7.3	30.0
1,2-Dichloroethane	Ave	0.6534	0.6267	0.1000	0.0192	0.0200	-4.1	30.0
Benzene	Ave	2.083	2.006	0.5000	0.0193	0.0200	-3.7	30.0
n-Heptane	Ave	0.4569	0.3890		0.0170	0.0200	-14.8	30.0
Trichloroethene	Ave	0.6093	0.5932	0.1500	0.0195	0.0200	-2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-489988/15 Calibration Date: 06/10/2021 13:44

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 11:06

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 13:21

Lab File ID: UX995914.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	0.9522	0.8721	0.1000	0.0183	0.0200	-8.4	30.0
1,2-Dichloropropane	Ave	0.4773	0.4857	0.1000	0.0204	0.0200	1.8	30.0
1,4-Dioxane	Ave	0.0049	0.0049		0.401	0.400	0.1	50.0
Dibromomethane	Ave	0.3097	0.3029		0.0196	0.0200	-2.2	30.0
Bromodichloromethane	Ave	0.7197	0.7295	0.1500	0.0203	0.0200	1.4	30.0
2-Chloroethyl vinyl ether	Ave	0.2376	0.2551		0.0215	0.0200	7.4	30.0
cis-1,3-Dichloropropene	Ave	0.7415	0.7330	0.1500	0.0198	0.0200	-1.1	50.0
4-Methyl-2-pentanone	Ave	0.3466	0.3463	0.0500	0.0400	0.0400	-0.0	50.0
Toluene	Ave	2.831	2.799	0.4000	0.0198	0.0200	-1.1	30.0
trans-1,3-Dichloropropene	Ave	0.7873	0.7365	0.1000	0.0187	0.0200	-6.5	30.0
Ethyl methacrylate	Ave	0.6952	0.6954		0.0200	0.0200	0.0	30.0
1,1,2-Trichloroethane	Ave	0.5376	0.5441	0.1000	0.0202	0.0200	1.2	30.0
1,3-Dichloropropane	Ave	0.9081	0.8944		0.0197	0.0200	-1.5	30.0
Tetrachloroethene	Ave	0.7654	0.7523	0.1500	0.0197	0.0200	-1.7	30.0
2-Hexanone	Ave	0.2965	0.2951	0.0500	0.0398	0.0400	-0.5	50.0
Dibromochloromethane	Ave	0.6503	0.6590		0.0203	0.0200	1.3	30.0
1,2-Dibromoethane	Ave	0.4930	0.4897		0.0199	0.0200	-0.7	30.0
Chlorobenzene	Ave	1.890	1.875	0.3000	0.0198	0.0200	-0.8	30.0
1,1,1,2-Tetrachloroethane	Ave	0.7336	0.7287		0.0199	0.0200	-0.7	30.0
Ethylbenzene	Ave	1.111	1.137		0.0205	0.0200	2.3	30.0
m-Xylene & p-Xylene	Ave	1.377	1.386		0.0201	0.0200	0.7	30.0
o-Xylene	Ave	1.343	1.351		0.0201	0.0200	0.6	30.0
Styrene	Ave	1.937	2.117	0.3000	0.0219	0.0200	9.3	30.0
Bromoform	Ave	0.3761	0.3963	0.1000	0.0211	0.0200	5.4	30.0
Isopropylbenzene	Ave	3.424	3.510	0.1000	0.0205	0.0200	2.5	30.0
1,1,2,2-Tetrachloroethane	Ave	1.081	1.124	0.3000	0.0208	0.0200	4.0	30.0
1,2,3-Trichloropropane	Ave	0.4149	0.4262		0.0205	0.0200	2.7	30.0
Bromobenzene	Ave	1.452	1.454		0.0200	0.0200	0.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3007	0.3059		0.0203	0.0200	1.7	30.0
n-Propylbenzene	Ave	1.778	1.824		0.0205	0.0200	2.6	30.0
2-Chlorotoluene	Ave	1.487	1.511		0.0203	0.0200	1.6	30.0
1,3,5-Trimethylbenzene	Ave	4.977	5.071		0.0204	0.0200	1.9	30.0
4-Chlorotoluene	Ave	1.525	1.564		0.0205	0.0200	2.6	30.0
tert-Butylbenzene	Ave	4.826	4.849		0.0201	0.0200	0.5	30.0
1,2,4-Trimethylbenzene	Ave	4.992	5.163		0.0207	0.0200	3.4	30.0
sec-Butylbenzene	Ave	1.414	1.457		0.0206	0.0200	3.0	30.0
1,3-Dichlorobenzene	Ave	2.796	2.836	0.6000	0.0203	0.0200	1.4	30.0
p-Isopropyltoluene	Ave	5.331	5.522		0.0207	0.0200	3.6	30.0
1,4-Dichlorobenzene	Ave	2.868	2.883	0.5000	0.0201	0.0200	0.5	30.0
n-Butylbenzene	Ave	4.147	4.253		0.0205	0.0200	2.6	30.0
1,2-Dichlorobenzene	Ave	2.743	2.663	0.4000	0.0194	0.0200	-2.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-489988/15 Calibration Date: 06/10/2021 13:44

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 11:06

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 13:21

Lab File ID: UX995914.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	0.2341	0.2392	0.0500	0.0204	0.0200	2.2	50.0
1,2,4-Trichlorobenzene	Ave	1.496	1.565	0.2000	0.0209	0.0200	4.7	50.0
Hexachlorobutadiene	Ave	0.5083	0.5554		0.0219	0.0200	9.3	50.0
Naphthalene	Ave	3.394	3.462		0.0204	0.0200	2.0	50.0
1,2,3-Trichlorobenzene	Ave	1.259	1.352		0.0215	0.0200	7.4	30.0
Dibromofluoromethane (Surr)	Ave	0.4998	0.5579		0.0223	0.0200	11.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.5686	0.6116		0.0215	0.0200	7.6	30.0
Toluene-d8 (Surr)	Ave	2.404	2.643		0.0220	0.0200	10.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9424	1.014		0.0215	0.0200	7.6	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995914.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Jun-2021 13:44:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-015
Operator ID: 001765 Instrument ID: A3UX9
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 08:23:33 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 11-Jun-2021 12:37:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.877	0.000	99	929239	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.575	0.000	83	776727	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	96	432080	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.286	5.286	0.000	93	518445	20.0	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.581	0.000	99	568335	20.0	21.5	
$ 6 Toluene-d8 (Surr)	98	7.250	7.250	0.000	92	2053143	20.0	22.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	90	787691	20.0	21.5	
9 Dichlorodifluoromethane	85	1.759	1.759	0.000	99	425730	20.0	15.7	
10 Chloromethane	50	1.949	1.949	0.000	100	455690	20.0	19.1	
11 Vinyl chloride	62	2.079	2.079	0.000	99	510587	20.0	21.6	
12 Butadiene	54	2.114	2.126	-0.012	90	404607	20.0	18.5	
13 Bromomethane	94	2.434	2.434	0.000	91	370714	20.0	19.3	
15 Chloroethane	64	2.540	2.540	0.000	99	363617	20.0	20.6	
16 Dichlorofluoromethane	67	2.741	2.742	-0.001	98	846203	20.0	21.0	
17 Trichlorofluoromethane	101	2.812	2.813	-0.001	100	822951	20.0	20.4	
18 Ethyl ether	59	3.096	3.097	-0.001	87	311993	20.0	18.8	
21 Acrolein	56	3.215	3.215	0.000	98	111634	100.0	193.3	
24 1,1-Dichloroethene	61	3.321	3.321	0.000	96	565325	20.0	18.1	
22 112TCTFE	101	3.321	3.321	0.000	89	405627	20.0	17.1	
23 Acetone	58	3.357	3.357	0.000	100	55863	40.0	37.3	
25 Iodomethane	142	3.463	3.463	0.000	98	575773	20.0	18.8	
26 Carbon disulfide	76	3.534	3.534	0.000	99	1008529	20.0	16.3	
28 3-Chloro-1-propene	41	3.653	3.653	0.000	89	552320	20.0	17.6	
29 Methyl acetate	43	3.664	3.665	-0.001	96	425800	40.0	41.3	
30 Methylene Chloride	49	3.759	3.759	0.000	85	486290	20.0	18.4	
31 2-Methyl-2-propanol	59	3.842	3.842	0.000	100	402968	200.0	207.1	
32 Acrylonitrile	53	3.972	3.972	0.000	99	1155294	200.0	196.1	
34 trans-1,2-Dichloroethene	61	4.019	4.020	-0.001	92	583503	20.0	19.2	
33 Methyl tert-butyl ether	73	4.008	4.020	-0.012	93	1311502	20.0	19.5	
35 Hexane	57	4.268	4.268	0.000	89	517411	20.0	16.1	
36 1,1-Dichloroethane	63	4.386	4.386	0.000	96	785336	20.0	19.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.410	4.422	-0.012	97	620951	20.0	17.3	
41 2-Butanone (MEK)	72	4.883	4.883	0.000	61	90920	40.0	42.3	
43 cis-1,2-Dichloroethene	96	4.883	4.883	0.000	81	550636	20.0	20.2	
42 2,2-Dichloropropane	77	4.895	4.895	0.000	86	815781	20.0	19.1	
47 Chlorobromomethane	49	5.084	5.084	0.000	85	309749	20.0	18.7	
48 Tetrahydrofuran	42	5.132	5.132	0.000	81	181392	40.0	37.4	
49 Chloroform	83	5.155	5.155	0.000	94	858947	20.0	19.7	
50 1,1,1-Trichloroethane	97	5.333	5.333	0.000	97	852746	20.0	19.7	
51 Cyclohexane	84	5.392	5.392	0.000	84	739045	20.0	17.4	
53 Carbon tetrachloride	117	5.475	5.475	0.000	98	738112	20.0	19.2	
52 1,1-Dichloropropene	75	5.475	5.475	0.000	97	634728	20.0	18.9	
54 Isobutyl alcohol	41	5.510	5.510	0.000	96	238463	500.0	463.6	
56 1,2-Dichloroethane	62	5.652	5.652	0.000	58	582341	20.0	19.2	
55 Benzene	78	5.652	5.652	0.000	95	1864062	20.0	19.3	
58 n-Heptane	71	5.853	5.865	-0.012	87	361508	20.0	17.0	
60 Trichloroethene	130	6.197	6.197	0.000	95	551185	20.0	19.5	
62 Methylcyclohexane	83	6.374	6.374	0.000	87	810370	20.0	18.3	
63 1,2-Dichloropropane	63	6.386	6.386	0.000	93	451373	20.0	20.4	
66 Dibromomethane	174	6.492	6.493	-0.001	94	281446	20.0	19.6	
65 1,4-Dioxane	88	6.492	6.493	-0.001	88	91487	400.0	400.5	
67 Dichlorobromomethane	83	6.611	6.611	0.000	99	677919	20.0	20.3	
69 2-Chloroethyl vinyl ether	63	6.847	6.848	-0.001	94	237023	20.0	21.5	
71 cis-1,3-Dichloropropene	75	7.001	7.001	0.000	96	681129	20.0	19.8	
72 4-Methyl-2-pentanone (MIBK)	43	7.120	7.120	0.000	94	643621	40.0	40.0	
73 Toluene	91	7.309	7.309	0.000	99	2173846	20.0	19.8	
74 trans-1,3-Dichloropropene	75	7.486	7.487	-0.001	92	572022	20.0	18.7	
75 Ethyl methacrylate	69	7.546	7.546	0.000	86	540174	20.0	20.0	
76 1,1,2-Trichloroethane	97	7.652	7.652	0.000	90	422587	20.0	20.2	
77 1,3-Dichloropropane	76	7.806	7.806	0.000	89	694731	20.0	19.7	
78 Tetrachloroethene	166	7.818	7.818	0.000	97	584362	20.0	19.7	
80 2-Hexanone	43	7.865	7.865	0.000	93	458463	40.0	39.8	
82 Chlorodibromomethane	129	8.031	8.031	0.000	90	511859	20.0	20.3	
83 Ethylene Dibromide	107	8.149	8.149	0.000	99	380393	20.0	19.9	
85 Chlorobenzene	112	8.599	8.599	0.000	96	1456409	20.0	19.8	
86 1,1,1,2-Tetrachloroethane	131	8.670	8.670	0.000	95	565990	20.0	19.9	
87 Ethylbenzene	106	8.693	8.693	0.000	97	882905	20.0	20.5	
88 m-Xylene & p-Xylene	106	8.800	8.800	0.000	99	1076785	20.0	20.1	
89 o-Xylene	106	9.179	9.179	-0.001	94	1049130	20.0	20.1	
90 Styrene	104	9.190	9.190	0.000	93	1644260	20.0	21.9	
91 Bromoform	173	9.368	9.368	0.000	96	307797	20.0	21.1	
92 Isopropylbenzene	105	9.533	9.534	-0.001	95	2726208	20.0	20.5	
94 1,1,2,2-Tetrachloroethane	83	9.794	9.794	0.000	96	485702	20.0	20.8	
95 Bromobenzene	156	9.841	9.841	0.000	94	628235	20.0	20.0	
97 1,2,3-Trichloropropane	110	9.841	9.853	-0.012	81	184143	20.0	20.5	
96 trans-1,4-Dichloro-2-butene	53	9.853	9.853	0.000	71	132156	20.0	20.3	
98 N-Propylbenzene	120	9.924	9.924	0.000	98	788055	20.0	20.5	
100 2-Chlorotoluene	126	10.019	10.019	0.000	97	653018	20.0	20.3	
101 1,3,5-Trimethylbenzene	105	10.090	10.090	0.000	94	2191260	20.0	20.4	
102 4-Chlorotoluene	126	10.125	10.125	0.000	97	675641	20.0	20.5	
104 tert-Butylbenzene	119	10.421	10.421	0.000	90	2094954	20.0	20.1	
106 1,2,4-Trimethylbenzene	105	10.468	10.468	0.000	96	2230970	20.0	20.7	
107 sec-Butylbenzene	134	10.634	10.634	0.000	94	629573	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
108 1,3-Dichlorobenzene	146	10.752	10.752	0.000	97	1225400	20.0	20.3	
109 4-Isopropyltoluene	119	10.776	10.776	0.000	96	2385817	20.0	20.7	
110 1,4-Dichlorobenzene	146	10.835	10.835	0.000	94	1245580	20.0	20.1	
113 n-Butylbenzene	91	11.178	11.178	0.000	96	1837649	20.0	20.5	
114 1,2-Dichlorobenzene	146	11.214	11.214	0.000	98	1150425	20.0	19.4	
115 1,2-Dibromo-3-Chloropropane	157	11.983	11.983	0.000	87	103338	20.0	20.4	
117 1,2,4-Trichlorobenzene	180	12.823	12.823	0.000	95	676404	20.0	20.9	
118 Hexachlorobutadiene	225	13.000	13.001	-0.001	98	239962	20.0	21.9	
119 Naphthalene	128	13.083	13.083	0.000	97	1495803	20.0	20.4	
120 1,2,3-Trichlorobenzene	180	13.355	13.356	-0.001	96	584103	20.0	21.5	
S 158 Total BTEX	1				0		100.0	99.8	
S 130 Trihalomethanes, Total	83				0		80.0	81.3	
S 131 Xylenes, Total	106				0		40.0	40.3	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00410	Amount Added:	16.00	Units: uL
vmfasaw_00377	Amount Added:	16.00	Units: uL
VMFASPW_00401	Amount Added:	16.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

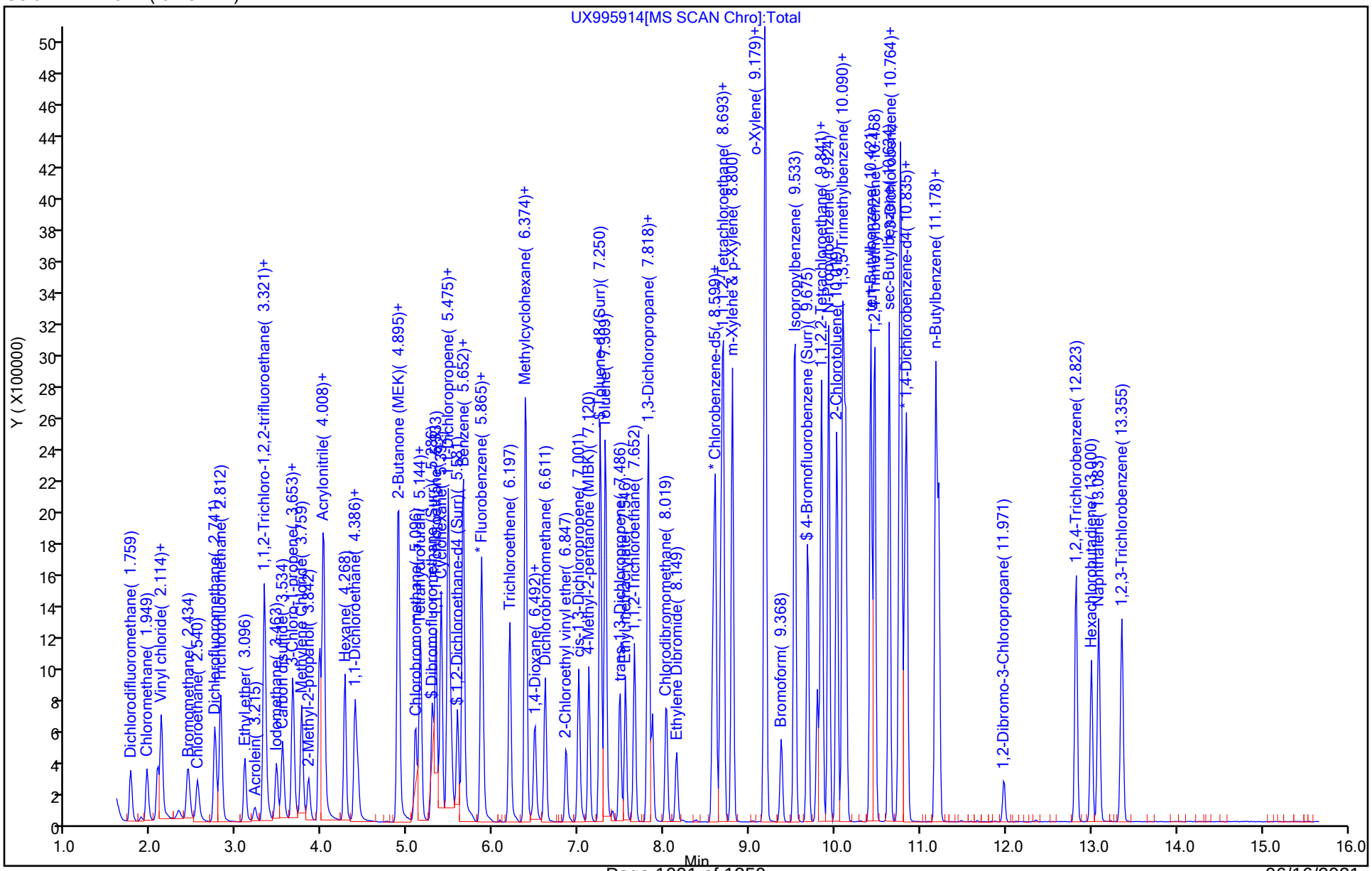
Report Date: 11-Jun-2021 12:37:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995914.D

Injection Date:	10-Jun-2021 13:44:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-489988/24 Calibration Date: 06/10/2021 17:07

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 11:06

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 13:21

Lab File ID: UX995923.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	0.4998	0.4714		0.0189	0.0200	-5.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.5686	0.5029		0.0177	0.0200	-11.5	30.0
Toluene-d8 (Surr)	Ave	2.404	2.275		0.0189	0.0200	-5.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9424	0.8521		0.0181	0.0200	-9.6	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995923.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Jun-2021 17:07:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-024
Operator ID: 001765 Instrument ID: A3UX9
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 10:19:34 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 11-Jun-2021 08:36:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.877	0.000	99	967002	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.575	0.000	86	791268	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	95	415827	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.286	-0.001	93	455828	20.0	18.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.581	0.000	100	486342	20.0	17.7	
$ 6 Toluene-d8 (Surr)	98	7.249	7.250	-0.001	92	1799789	20.0	18.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	89	674216	20.0	18.1	
27 Acetonitrile	41	3.605	3.605	0.000	99	356583	200.0	189.5	
38 Isopropyl ether	87	4.433	4.445	-0.012	92	458105	20.0	19.3	
39 2-Chloro-1,3-butadiene	53	4.469	4.469	0.000	91	657092	20.0	18.7	
40 Tert-butyl ethyl ether	59	4.753	4.753	0.000	95	1432647	20.0	19.6	
45 Propionitrile	54	4.930	4.930	0.000	77	438456	200.0	194.2	
44 Ethyl acetate	43	4.930	4.930	0.000	98	596581	40.0	36.6	
46 Methacrylonitrile	41	5.060	5.060	0.000	90	1931960	200.0	191.5	
163 Isooctane	57	5.711	5.711	0.000	96	1189895	20.0	19.2	
57 Tert-amyl methyl ether	73	5.723	5.723	0.000	98	1415319	20.0	19.3	
59 n-Butanol	56	6.078	6.078	0.000	84	242817	500.0	503.6	
61 Ethyl acrylate	55	6.243	6.244	-0.001	99	420791	20.0	18.7	
64 Methyl methacrylate	41	6.445	6.457	-0.012	84	589682	40.0	35.9	
68 2-Nitropropane	41	6.788	6.788	0.000	98	212256	40.0	34.8	
81 n-Butyl acetate	43	7.971	7.971	0.000	97	538300	20.0	19.3	
84 1-Chlorohexane	91	8.551	8.551	0.000	91	735064	20.0	18.5	
93 Cyclohexanone	55	9.616	9.616	0.000	92	116820	200.0	189.5	
105 Pentachloroethane	167	10.444	10.444	0.000	93	558037	40.0	37.1	
111 1,2,3-Trimethylbenzene	105	10.882	10.882	0.000	98	2060778	20.0	19.8	
112 Benzyl chloride	126	10.965	10.965	0.000	98	199066	20.0	18.8	
116 1,3,5-Trichlorobenzene	180	12.207	12.196	0.011	97	696296	20.0	20.0	
121 2-Methylnaphthalene	142	14.503	14.503	0.000	93	856944	40.0	41.2	
162 1-Methylnaphthalene	142	14.787	14.787	0.000	93	608682	40.0	40.5	

QC Flag Legend

Processing Flags

Reagents:

VMFASA9W_00322	Amount Added:	16.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

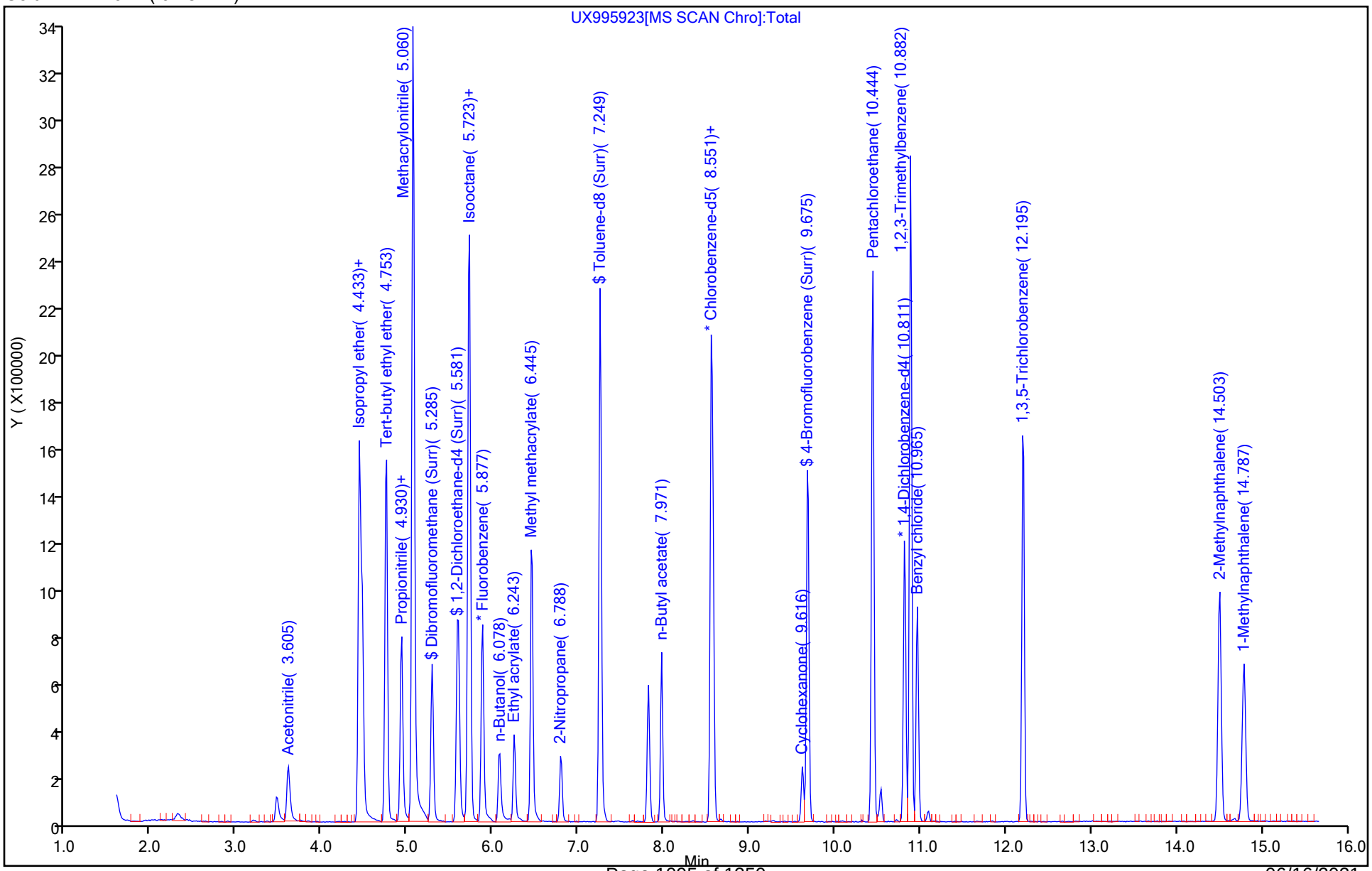
Report Date: 11-Jun-2021 10:19:39 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995923.D

Injection Date:	10-Jun-2021 17:07:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-489988/24 Calibration Date: 06/10/2021 17:07

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 14:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 16:45

Lab File ID: UX995923.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		0.0369		0.190	0.200	-5.2	30.0
Diisopropyl ether	Ave	0.4900	0.4737		0.0193	0.0200	-3.3	30.0
2-Chloro-1,3-butadiene	Ave	0.7271	0.6795		0.0187	0.0200	-6.5	30.0
Ethyl-t-butyl ether (ETBE)	Ave	1.509	1.482		0.0196	0.0200	-1.8	30.0
Ethyl acetate	Ave	0.3371	0.3085		0.0366	0.0400	-8.5	30.0
Propionitrile	Ave	0.0467	0.0453		0.194	0.200	-2.9	30.0
Methacrylonitrile	Ave	0.2087	0.1998		0.191	0.200	-4.3	30.0
Tert-amyl-methyl ether (TAME)	Ave	1.513	1.464		0.0193	0.0200	-3.3	30.0
n-Butanol	Ave	0.0100	0.0100		0.504	0.500	0.7	30.0
Ethyl acrylate	Ave	0.4660	0.4352		0.0187	0.0200	-6.6	30.0
Methyl methacrylate	Ave	0.3394	0.3049		0.0359	0.0400	-10.2	30.0
2-Nitropropane	Ave	0.1263	0.1097		0.0348	0.0400	-13.1	30.0
n-Butyl acetate	Ave	0.7036	0.6803		0.0193	0.0200	-3.3	30.0
1-Chlorohexane	Ave	1.004	0.9290		0.0185	0.0200	-7.5	30.0
Cyclohexanone	Lin1		0.0281		0.190	0.200	-5.2	30.0
Pentachloroethane	Ave	0.7237	0.6710		0.0371	0.0400	-7.3	30.0
1,2,3-Trimethylbenzene	Ave	5.004	4.956		0.0198	0.0200	-1.0	30.0
Benzyl chloride	Ave	0.5103	0.4787		0.0188	0.0200	-6.2	30.0
1,3,5-Trichlorobenzene	Ave	1.678	1.674		0.0200	0.0200	-0.2	30.0
2-Methylnaphthalene	Ave	1.001	1.030		0.0412	0.0400	2.9	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995923.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Jun-2021 17:07:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-024
Operator ID: 001765 Instrument ID: A3UX9
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 10:19:34 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 11-Jun-2021 08:36:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.877	0.000	99	967002	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.575	0.000	86	791268	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	95	415827	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.286	-0.001	93	455828	20.0	18.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.581	0.000	100	486342	20.0	17.7	
$ 6 Toluene-d8 (Surr)	98	7.249	7.250	-0.001	92	1799789	20.0	18.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	89	674216	20.0	18.1	
27 Acetonitrile	41	3.605	3.605	0.000	99	356583	200.0	189.5	
38 Isopropyl ether	87	4.433	4.445	-0.012	92	458105	20.0	19.3	
39 2-Chloro-1,3-butadiene	53	4.469	4.469	0.000	91	657092	20.0	18.7	
40 Tert-butyl ethyl ether	59	4.753	4.753	0.000	95	1432647	20.0	19.6	
45 Propionitrile	54	4.930	4.930	0.000	77	438456	200.0	194.2	
44 Ethyl acetate	43	4.930	4.930	0.000	98	596581	40.0	36.6	
46 Methacrylonitrile	41	5.060	5.060	0.000	90	1931960	200.0	191.5	
163 Isooctane	57	5.711	5.711	0.000	96	1189895	20.0	19.2	
57 Tert-amyl methyl ether	73	5.723	5.723	0.000	98	1415319	20.0	19.3	
59 n-Butanol	56	6.078	6.078	0.000	84	242817	500.0	503.6	
61 Ethyl acrylate	55	6.243	6.244	-0.001	99	420791	20.0	18.7	
64 Methyl methacrylate	41	6.445	6.457	-0.012	84	589682	40.0	35.9	
68 2-Nitropropane	41	6.788	6.788	0.000	98	212256	40.0	34.8	
81 n-Butyl acetate	43	7.971	7.971	0.000	97	538300	20.0	19.3	
84 1-Chlorohexane	91	8.551	8.551	0.000	91	735064	20.0	18.5	
93 Cyclohexanone	55	9.616	9.616	0.000	92	116820	200.0	189.5	
105 Pentachloroethane	167	10.444	10.444	0.000	93	558037	40.0	37.1	
111 1,2,3-Trimethylbenzene	105	10.882	10.882	0.000	98	2060778	20.0	19.8	
112 Benzyl chloride	126	10.965	10.965	0.000	98	199066	20.0	18.8	
116 1,3,5-Trichlorobenzene	180	12.207	12.196	0.011	97	696296	20.0	20.0	
121 2-Methylnaphthalene	142	14.503	14.503	0.000	93	856944	40.0	41.2	
162 1-Methylnaphthalene	142	14.787	14.787	0.000	93	608682	40.0	40.5	

QC Flag Legend

Processing Flags

Reagents:

VMFASA9W_00322	Amount Added:	16.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

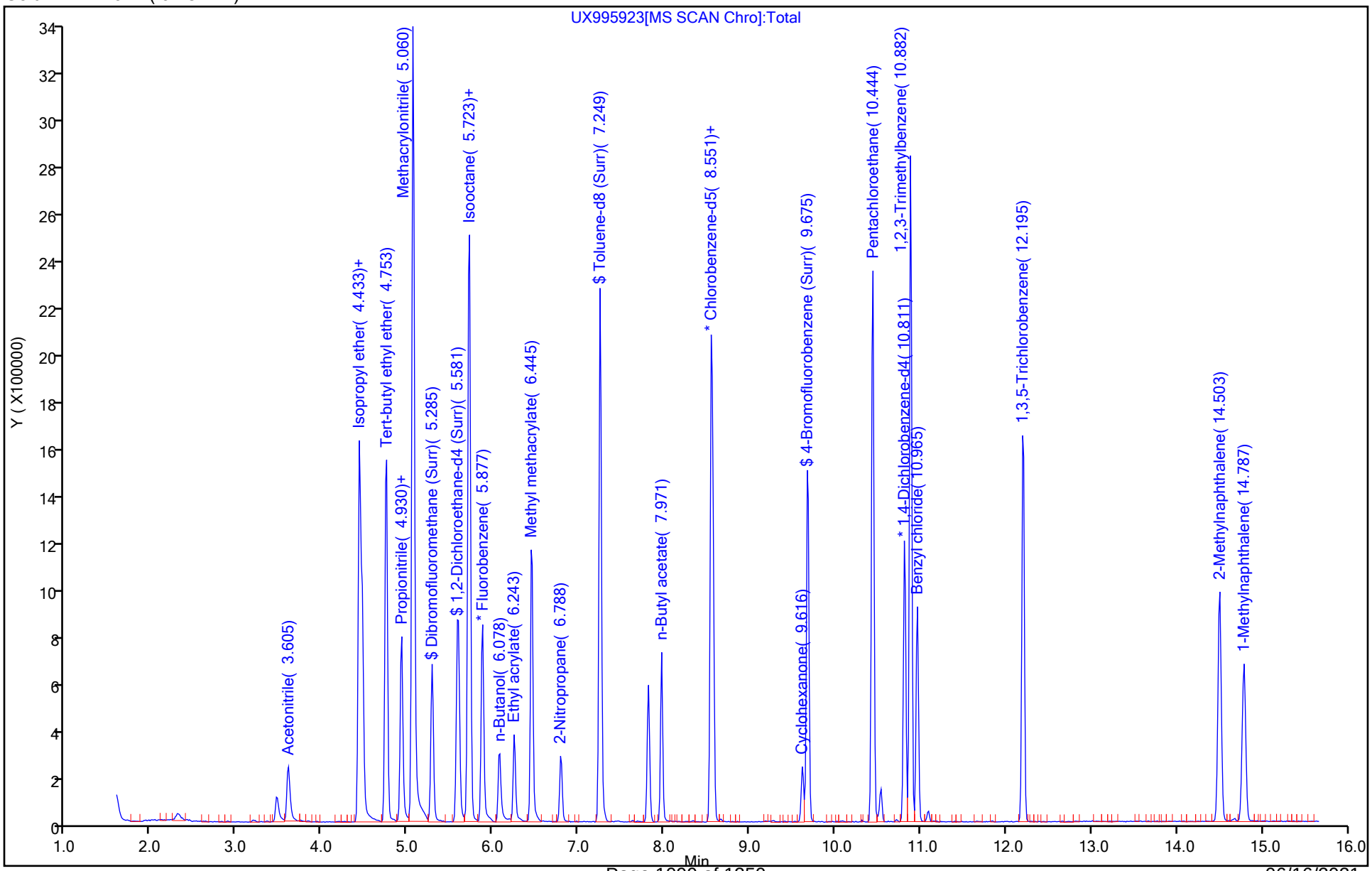
Report Date: 11-Jun-2021 10:19:39 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995923.D

Injection Date:	10-Jun-2021 17:07:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-490350/4 Calibration Date: 06/13/2021 09:59

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 11:06

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 13:21

Lab File ID: UX995979.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	0.5837	0.7709	0.1000	0.0264	0.0200	32.1*	20.0
Chloromethane	Ave	0.5139	0.6252	0.1000	0.0243	0.0200	21.7*	20.0
Vinyl chloride	Ave	0.5082	0.6391	0.1000	0.0251	0.0200	25.7*	20.0
Butadiene	Ave	0.4719	0.6111		0.0259	0.0200	29.5*	20.0
Bromomethane	Ave	0.4125	0.4562	0.0500	0.0221	0.0200	10.6	20.0
Chloroethane	Ave	0.3790	0.4676	0.0500	0.0247	0.0200	23.4*	20.0
Dichlorofluoromethane	Ave	0.8661	1.038		0.0240	0.0200	19.8	20.0
Trichlorofluoromethane	Ave	0.8694	1.122	0.1000	0.0258	0.0200	29.0*	20.0
Ethyl ether	Ave	0.3570	0.3629		0.0203	0.0200	1.7	20.0
Acrolein	Ave	0.0124	0.0119		0.0958	0.100	-4.2	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.5117	0.5843	0.0500	0.0228	0.0200	14.2	20.0
1,1-Dichloroethene	Ave	0.6732	0.7389	0.1000	0.0220	0.0200	9.8	20.0
Acetone	Lin1		0.0291	0.0100	0.0361	0.0400	-9.7	50.0
Iodomethane	Ave	0.6595	0.6919		0.0210	0.0200	4.9	20.0
Carbon disulfide	Ave	1.330	1.440	0.1000	0.0217	0.0200	8.3	20.0
3-Chloro-1-propene	Ave	0.6759	0.7301		0.0216	0.0200	8.0	20.0
Methyl acetate	Ave	0.2221	0.2162	0.1000	0.0389	0.0400	-2.6	50.0
Methylene Chloride	Ave	0.5695	0.5766	0.1000	0.0202	0.0200	1.2	50.0
tert-Butyl alcohol	Ave	0.0419	0.0365		0.175	0.200	-12.7	20.0
Acrylonitrile	Ave	0.1268	0.1209		0.191	0.200	-4.6	20.0
Methyl tert-butyl ether	Ave	1.451	1.448	0.1000	0.0200	0.0200	-0.2	20.0
trans-1,2-Dichloroethene	Ave	0.6524	0.6956	0.1000	0.0213	0.0200	6.6	20.0
Hexane	Ave	0.6932	0.7551		0.0218	0.0200	8.9	20.0
1,1-Dichloroethane	Ave	0.8914	0.9202	0.2000	0.0206	0.0200	3.2	20.0
Vinyl acetate	Ave	0.7730	0.7255		0.0188	0.0200	-6.1	20.0
2-Butanone	Ave	0.0463	0.0450	0.0100	0.0389	0.0400	-2.7	50.0
cis-1,2-Dichloroethene	Ave	0.5855	0.6312	0.1000	0.0216	0.0200	7.8	20.0
2,2-Dichloropropane	Ave	0.9182	0.9768		0.0213	0.0200	6.4	20.0
Bromochloromethane	Ave	0.3574	0.3485		0.0195	0.0200	-2.5	20.0
Tetrahydrofuran	Ave	0.1045	0.0926		0.0355	0.0400	-11.4	20.0
Chloroform	Ave	0.9399	0.9793	0.2000	0.0208	0.0200	4.2	20.0
1,1,1-Trichloroethane	Ave	0.9322	0.9869	0.1000	0.0212	0.0200	5.9	20.0
Cyclohexane	Ave	0.9153	1.010	0.1000	0.0221	0.0200	10.4	20.0
1,1-Dichloropropene	Ave	0.7243	0.7683		0.0212	0.0200	6.1	20.0
Carbon tetrachloride	Ave	0.8265	0.8971	0.1000	0.0217	0.0200	8.6	20.0
Isobutyl alcohol	Ave	0.0111	0.0097		0.436	0.500	-12.7	20.0
1,2-Dichloroethane	Ave	0.6534	0.6566	0.1000	0.0201	0.0200	0.5	20.0
Benzene	Ave	2.083	2.174	0.5000	0.0209	0.0200	4.4	20.0
n-Heptane	Ave	0.4569	0.4713		0.0206	0.0200	3.1	20.0
Trichloroethene	Ave	0.6093	0.6644	0.1500	0.0218	0.0200	9.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-490350/4 Calibration Date: 06/13/2021 09:59

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 11:06

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 13:21

Lab File ID: UX995979.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-Dichloropropane	Ave	0.4773	0.5070	0.1000	0.0212	0.0200	6.2	20.0
Methylcyclohexane	Ave	0.9522	1.068	0.1000	0.0224	0.0200	12.2	20.0
Dibromomethane	Ave	0.3097	0.3113		0.0201	0.0200	0.5	20.0
1,4-Dioxane	Ave	0.0049	0.0045		0.370	0.400	-7.5	50.0
Bromodichloromethane	Ave	0.7197	0.7390	0.1500	0.0205	0.0200	2.7	20.0
2-Chloroethyl vinyl ether	Ave	0.2376	0.2278		0.0384	0.0400	-4.1	20.0
cis-1,3-Dichloropropene	Ave	0.7415	0.7716	0.1500	0.0208	0.0200	4.1	50.0
4-Methyl-2-pentanone	Ave	0.3466	0.3128	0.0500	0.0361	0.0400	-9.7	50.0
Toluene	Ave	2.831	2.976	0.4000	0.0210	0.0200	5.1	20.0
trans-1,3-Dichloropropene	Ave	0.7873	0.7936	0.1000	0.0202	0.0200	0.8	20.0
Ethyl methacrylate	Ave	0.6952	0.6663		0.0192	0.0200	-4.2	20.0
1,1,2-Trichloroethane	Ave	0.5376	0.5294	0.1000	0.0197	0.0200	-1.5	20.0
1,3-Dichloropropane	Ave	0.9081	0.9006		0.0198	0.0200	-0.8	20.0
Tetrachloroethene	Ave	0.7654	0.8344	0.1500	0.0218	0.0200	9.0	20.0
2-Hexanone	Ave	0.2965	0.2520	0.0500	0.0340	0.0400	-15.0	50.0
Dibromochloromethane	Ave	0.6503	0.6606		0.0203	0.0200	1.6	20.0
1,2-Dibromoethane	Ave	0.4930	0.5007		0.0203	0.0200	1.6	20.0
Chlorobenzene	Ave	1.890	1.974	0.3000	0.0209	0.0200	4.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7336	0.7632		0.0208	0.0200	4.0	20.0
Ethylbenzene	Ave	1.111	1.177		0.0212	0.0200	5.9	20.0
m-Xylene & p-Xylene	Ave	1.377	1.466		0.0213	0.0200	6.5	20.0
o-Xylene	Ave	1.343	1.416		0.0211	0.0200	5.4	20.0
Styrene	Ave	1.937	2.048	0.3000	0.0211	0.0200	5.7	20.0
Bromoform	Ave	0.3761	0.3716	0.1000	0.0198	0.0200	-1.2	20.0
Isopropylbenzene	Ave	3.424	3.648	0.1000	0.0213	0.0200	6.5	20.0
1,1,2,2-Tetrachloroethane	Ave	1.081	1.040	0.3000	0.0192	0.0200	-3.8	20.0
1,2,3-Trichloropropane	Ave	0.4149	0.3991		0.0192	0.0200	-3.8	20.0
Bromobenzene	Ave	1.452	1.490		0.0205	0.0200	2.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3007	0.2728		0.0181	0.0200	-9.3	20.0
n-Propylbenzene	Ave	1.778	1.904		0.0214	0.0200	7.1	20.0
2-Chlorotoluene	Ave	1.487	1.578		0.0212	0.0200	6.1	20.0
1,3,5-Trimethylbenzene	Ave	4.977	5.300		0.0213	0.0200	6.5	20.0
4-Chlorotoluene	Ave	1.525	1.601		0.0210	0.0200	5.0	20.0
tert-Butylbenzene	Ave	4.826	4.891		0.0203	0.0200	1.3	20.0
1,2,4-Trimethylbenzene	Ave	4.992	5.356		0.0215	0.0200	7.3	20.0
sec-Butylbenzene	Ave	1.414	1.525		0.0216	0.0200	7.8	20.0
1,3-Dichlorobenzene	Ave	2.796	2.982	0.6000	0.0213	0.0200	6.7	20.0
p-Isopropyltoluene	Ave	5.331	5.816		0.0218	0.0200	9.1	20.0
1,4-Dichlorobenzene	Ave	2.868	2.968	0.5000	0.0207	0.0200	3.5	20.0
n-Butylbenzene	Ave	4.147	4.518		0.0218	0.0200	8.9	20.0
1,2-Dichlorobenzene	Ave	2.743	2.791	0.4000	0.0204	0.0200	1.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-490350/4 Calibration Date: 06/13/2021 09:59

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 11:06

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 13:21

Lab File ID: UX995979.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	0.2341	0.2224	0.0500	0.0190	0.0200	-5.0	50.0
1,2,4-Trichlorobenzene	Ave	1.496	1.532	0.2000	0.0205	0.0200	2.5	50.0
Hexachlorobutadiene	Ave	0.5083	0.5741		0.0226	0.0200	13.0	50.0
Naphthalene	Ave	3.394	3.242		0.0191	0.0200	-4.5	50.0
1,2,3-Trichlorobenzene	Ave	1.259	1.265		0.0201	0.0200	0.5	20.0
Dibromofluoromethane (Surr)	Ave	0.4998	0.5679		0.0227	0.0200	13.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.5686	0.6100		0.0215	0.0200	7.3	20.0
Toluene-d8 (Surr)	Ave	2.404	2.709		0.0225	0.0200	12.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9424	1.058		0.0224	0.0200	12.2	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995979.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Jun-2021 09:59:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-004
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jun-2021 10:30:45 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: bosworthh Date: 13-Jun-2021 10:30:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.880	5.880	0.000	99	870833	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.578	8.578	0.000	83	726909	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.815	10.815	0.000	93	408169	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.289	5.289	0.000	93	494561	20.0	22.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	99	531225	20.0	21.5	
$ 6 Toluene-d8 (Surr)	98	7.253	7.253	0.000	92	1969191	20.0	22.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.679	9.679	0.000	88	768794	20.0	22.4	
9 Dichlorodifluoromethane	85	1.763	1.763	0.000	100	671296	20.0	26.4	
10 Chloromethane	50	1.952	1.952	0.000	99	544466	20.0	24.3	
11 Vinyl chloride	62	2.082	2.082	0.000	98	556525	20.0	25.1	
12 Butadiene	54	2.118	2.118	0.000	91	532176	20.0	25.9	
13 Bromomethane	94	2.437	2.437	0.000	91	397251	20.0	22.1	
15 Chloroethane	64	2.544	2.544	0.000	99	407188	20.0	24.7	
16 Dichlorofluoromethane	67	2.745	2.745	0.000	98	903537	20.0	24.0	
17 Trichlorofluoromethane	101	2.816	2.816	0.000	100	977057	20.0	25.8	
18 Ethyl ether	59	3.100	3.100	0.000	86	316018	20.0	20.3	
21 Acrolein	56	3.218	3.218	0.000	99	51851	100.0	95.8	
24 1,1-Dichloroethene	61	3.325	3.325	0.000	96	643425	20.0	22.0	
22 112TCTFE	101	3.325	3.325	0.000	93	508852	20.0	22.8	
23 Acetone	58	3.360	3.360	0.000	100	50768	40.0	36.1	
25 Iodomethane	142	3.466	3.466	0.000	98	602505	20.0	21.0	
26 Carbon disulfide	76	3.537	3.537	0.000	99	1254287	20.0	21.7	
28 3-Chloro-1-propene	41	3.656	3.656	0.000	89	635787	20.0	21.6	
29 Methyl acetate	43	3.668	3.668	0.000	96	376586	40.0	38.9	
30 Methylene Chloride	49	3.762	3.762	0.000	86	502093	20.0	20.2	
31 2-Methyl-2-propanol	59	3.845	3.845	0.000	99	318205	200.0	174.5	
32 Acrylonitrile	53	3.963	3.963	0.000	100	1052989	200.0	190.7	
33 Methyl tert-butyl ether	73	4.011	4.011	0.000	94	1260576	20.0	20.0	
34 trans-1,2-Dichloroethene	61	4.023	4.023	0.000	91	605755	20.0	21.3	
35 Hexane	57	4.271	4.271	0.000	89	657604	20.0	21.8	
36 1,1-Dichloroethane	63	4.389	4.389	0.000	96	801342	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
37 Vinyl acetate	43	4.413	4.413	0.000	97	631746	20.0	18.8	
43 cis-1,2-Dichloroethene	96	4.886	4.886	0.000	81	549645	20.0	21.6	
41 2-Butanone (MEK)	72	4.886	4.886	0.000	99	78416	40.0	38.9	
42 2,2-Dichloropropane	77	4.898	4.898	0.000	89	850619	20.0	21.3	
47 Chlorobromomethane	49	5.088	5.088	0.000	86	303488	20.0	19.5	
48 Tetrahydrofuran	42	5.135	5.135	0.000	82	161274	40.0	35.5	
49 Chloroform	83	5.147	5.147	0.000	94	852788	20.0	20.8	
50 1,1,1-Trichloroethane	97	5.336	5.336	0.000	97	859466	20.0	21.2	
51 Cyclohexane	84	5.395	5.395	0.000	84	879973	20.0	22.1	
52 1,1-Dichloropropene	75	5.466	5.466	0.000	97	669024	20.0	21.2	
53 Carbon tetrachloride	117	5.478	5.478	0.000	98	781264	20.0	21.7	
54 Isobutyl alcohol	41	5.514	5.514	0.000	94	210361	500.0	436.4	
56 1,2-Dichloroethane	62	5.644	5.644	0.000	57	571815	20.0	20.1	
55 Benzene	78	5.644	5.644	0.000	95	1893469	20.0	20.9	
58 n-Heptane	71	5.857	5.857	0.000	92	410386	20.0	20.6	
60 Trichloroethene	130	6.200	6.200	0.000	95	578618	20.0	21.8	
62 Methylcyclohexane	83	6.377	6.377	0.000	89	930171	20.0	22.4	
63 1,2-Dichloropropane	63	6.377	6.377	0.000	93	441548	20.0	21.2	
66 Dibromomethane	174	6.484	6.484	0.000	94	271081	20.0	20.1	
65 1,4-Dioxane	88	6.496	6.496	0.000	87	79176	400.0	369.9	
67 Dichlorobromomethane	83	6.614	6.614	0.000	100	643541	20.0	20.5	
69 2-Chloroethyl vinyl ether	63	6.851	6.851	0.000	94	396727	40.0	38.4	
71 cis-1,3-Dichloropropene	75	7.005	7.005	0.000	96	671896	20.0	20.8	
72 4-Methyl-2-pentanone (MIBK)	43	7.123	7.123	0.000	93	544825	40.0	36.1	
73 Toluene	91	7.312	7.312	0.000	99	2162969	20.0	21.0	
74 trans-1,3-Dichloropropene	75	7.478	7.478	0.000	94	576877	20.0	20.2	
75 Ethyl methacrylate	69	7.549	7.549	0.000	87	484337	20.0	19.2	
76 1,1,2-Trichloroethane	97	7.655	7.655	0.000	92	384852	20.0	19.7	
77 1,3-Dichloropropane	76	7.809	7.809	0.000	90	654689	20.0	19.8	
78 Tetrachloroethene	166	7.821	7.821	0.000	98	606520	20.0	21.8	
80 2-Hexanone	43	7.868	7.868	0.000	93	366354	40.0	34.0	
82 Chlorodibromomethane	129	8.022	8.022	0.000	89	480210	20.0	20.3	
83 Ethylene Dibromide	107	8.140	8.140	0.000	99	363947	20.0	20.3	
85 Chlorobenzene	112	8.602	8.602	0.000	96	1434955	20.0	20.9	
86 1,1,1,2-Tetrachloroethane	131	8.661	8.661	0.000	96	554747	20.0	20.8	
87 Ethylbenzene	106	8.697	8.697	0.000	97	855561	20.0	21.2	
88 m-Xylene & p-Xylene	106	8.803	8.803	0.000	100	1065650	20.0	21.3	
89 o-Xylene	106	9.182	9.182	0.000	90	1029104	20.0	21.1	
90 Styrene	104	9.194	9.194	0.000	92	1488816	20.0	21.1	
91 Bromoform	173	9.371	9.371	0.000	96	270106	20.0	19.8	
92 Isopropylbenzene	105	9.525	9.525	0.000	95	2651755	20.0	21.3	
94 1,1,2,2-Tetrachloroethane	83	9.797	9.797	0.000	95	424401	20.0	19.2	
95 Bromobenzene	156	9.844	9.844	0.000	94	608292	20.0	20.5	
97 1,2,3-Trichloropropane	110	9.844	9.844	0.000	81	162911	20.0	19.2	
96 trans-1,4-Dichloro-2-butene	53	9.844	9.844	0.000	69	111340	20.0	18.1	
98 N-Propylbenzene	120	9.927	9.927	0.000	98	777330	20.0	21.4	
100 2-Chlorotoluene	126	10.022	10.022	0.000	97	644072	20.0	21.2	
101 1,3,5-Trimethylbenzene	105	10.093	10.093	0.000	96	2163369	20.0	21.3	
102 4-Chlorotoluene	126	10.128	10.128	0.000	97	653618	20.0	21.0	
104 tert-Butylbenzene	119	10.424	10.424	0.000	90	1996260	20.0	20.3	
106 1,2,4-Trimethylbenzene	105	10.460	10.460	0.000	97	2185998	20.0	21.5	
107 sec-Butylbenzene	134	10.637	10.637	0.000	93	622429	20.0	21.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.755	10.755	0.000	98	1217009	20.0	21.3	
109 4-Isopropyltoluene	119	10.779	10.779	0.000	97	2373746	20.0	21.8	
110 1,4-Dichlorobenzene	146	10.838	10.838	0.000	95	1211391	20.0	20.7	
113 n-Butylbenzene	91	11.181	11.181	0.000	96	1844018	20.0	21.8	
114 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	1139307	20.0	20.4	
115 1,2-Dibromo-3-Chloropropane	157	11.974	11.974	0.000	88	90782	20.0	19.0	
117 1,2,4-Trichlorobenzene	180	12.826	12.826	0.000	95	625444	20.0	20.5	
118 Hexachlorobutadiene	225	13.004	13.004	0.000	97	234341	20.0	22.6	
119 Naphthalene	128	13.087	13.087	0.000	96	1323480	20.0	19.1	
120 1,2,3-Trichlorobenzene	180	13.359	13.359	0.000	96	516286	20.0	20.1	
S 158 Total BTEX	1				0		100.0	105.5	
S 130 Trihalomethanes, Total	83				0		80.0	81.5	
S 131 Xylenes, Total	106				0		40.0	42.4	

QC Flag Legend

Processing Flags

Reagents:

VMRGAS_00388	Amount Added:	16.00	Units: uL
vmrprimw_00439	Amount Added:	16.00	Units: uL
vmarolistdw_00396	Amount Added:	16.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

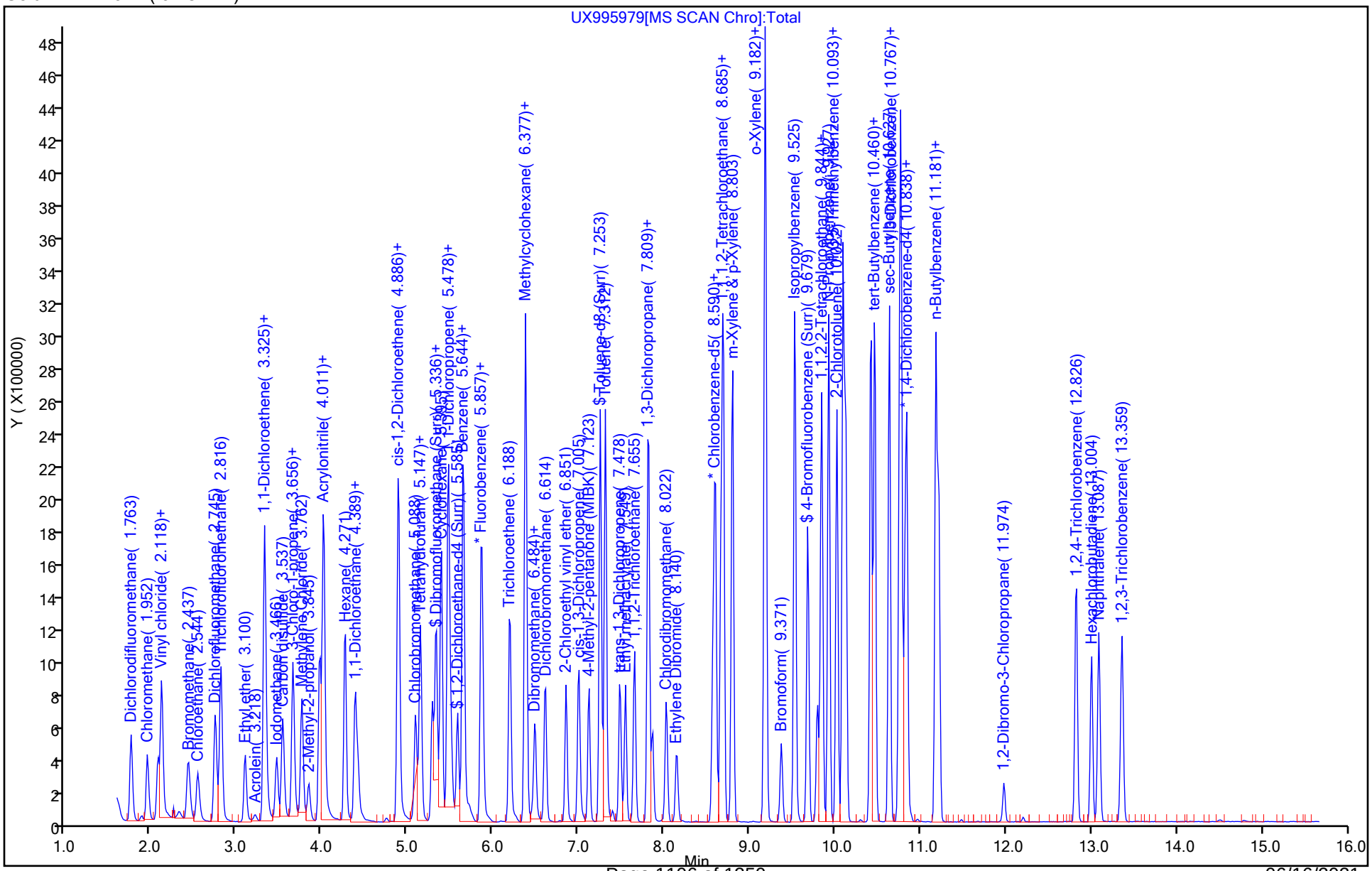
Report Date: 13-Jun-2021 10:30:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995979.D

Injection Date:	13-Jun-2021 09:59:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-490350/5 Calibration Date: 06/13/2021 10:22

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 11:06

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 13:21

Lab File ID: UX995980.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	0.4998	0.5170		0.0207	0.0200	3.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.5686	0.5373		0.0189	0.0200	-5.5	20.0
Toluene-d8 (Surr)	Ave	2.404	2.507		0.0209	0.0200	4.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9424	0.9709		0.0206	0.0200	3.0	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995980.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 13-Jun-2021 10:22:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-005
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub75

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jun-2021 11:05:58 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: bosworthh Date: 13-Jun-2021 11:05:58

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.879	5.879	0.000	99	958818	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.577	8.577	0.000	84	776651	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.813	10.813	0.000	95	413267	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.287	5.287	0.000	93	495662	20.0	20.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.583	5.583	0.000	99	515182	20.0	18.9	
$	6 Toluene-d8 (Surr)	98	7.251	7.251	0.000	92	1947154	20.0	20.9	
$	7 4-Bromofluorobenzene (Surr)	95	9.677	9.677	0.000	89	754026	20.0	20.6	
	27 Acetonitrile	41	3.607	3.607	0.000	99	335087	200.0	179.5	
	38 Isopropyl ether	87	4.435	4.435	0.000	92	467626	20.0	19.9	
	39 2-Chloro-1,3-butadiene	53	4.471	4.471	0.000	91	674962	20.0	19.4	
	40 Tert-butyl ethyl ether	59	4.755	4.755	0.000	95	1373407	20.0	19.0	
	44 Ethyl acetate	43	4.932	4.932	0.000	98	553989	40.0	34.3	
	45 Propionitrile	54	4.932	4.932	0.000	79	408639	200.0	182.6	
	46 Methacrylonitrile	41	5.062	5.062	0.000	90	1814033	200.0	181.3	
	163 Isooctane	57	5.713	5.713	0.000	97	1358668	20.0	22.1	
	57 Tert-amyl methyl ether	73	5.725	5.725	0.000	98	1380832	20.0	19.0	
	59 n-Butanol	56	6.080	6.080	0.000	85	226597	500.0	474.0	
	61 Ethyl acrylate	55	6.246	6.246	0.000	99	400995	20.0	18.0	
	64 Methyl methacrylate	41	6.447	6.447	0.000	84	562716	40.0	34.6	
	68 2-Nitropropane	41	6.790	6.790	0.000	99	189176	40.0	31.2	
	81 n-Butyl acetate	43	7.973	7.973	0.000	97	504233	20.0	18.5	
	84 1-Chlorohexane	91	8.553	8.553	0.000	90	790609	20.0	20.3	
	93 Cyclohexanone	55	9.618	9.618	0.000	91	114468	200.0	186.8	
	105 Pentachloroethane	167	10.446	10.446	0.000	93	678257	40.0	45.4	
	111 1,2,3-Trimethylbenzene	105	10.884	10.884	0.000	97	2064541	20.0	20.0	
	112 Benzyl chloride	126	10.967	10.967	0.000	98	240995	20.0	22.9	
	116 1,3,5-Trichlorobenzene	180	12.198	12.198	0.000	98	703854	20.0	20.3	
	121 2-Methylnaphthalene	142	14.505	14.505	0.000	94	801684	40.0	38.7	
	162 1-Methylnaphthalene	142	14.789	14.789	0.000	93	586098	40.0	39.3	

QC Flag Legend

Processing Flags

Reagents:

vmra9w_00394	Amount Added:	16.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

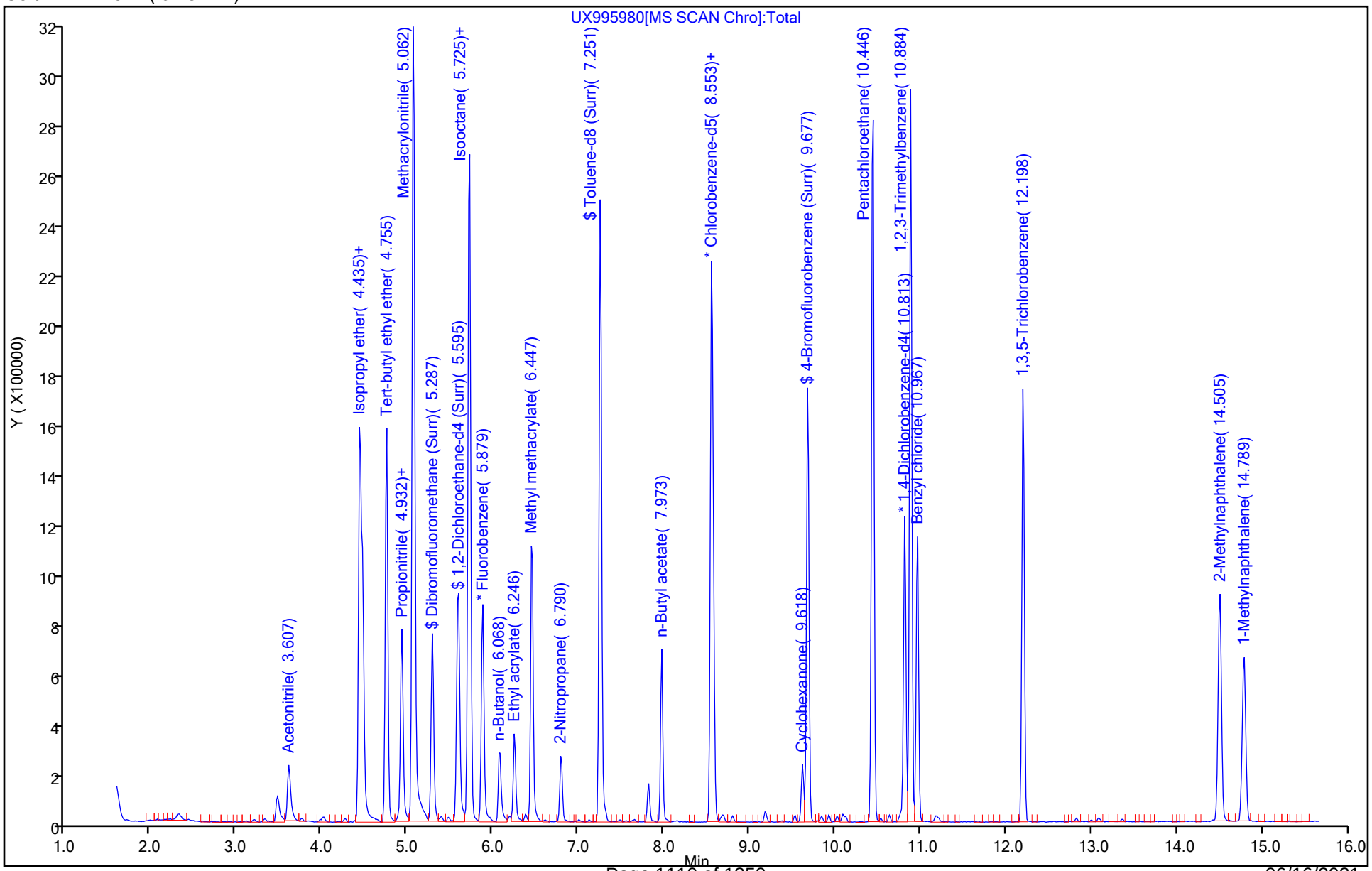
Report Date: 13-Jun-2021 11:05:59 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995980.D

Injection Date:	13-Jun-2021 10:22:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	CCV A9			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-490350/5 Calibration Date: 06/13/2021 10:22

Instrument ID: A3UX9 Calib Start Date: 06/10/2021 14:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/10/2021 16:45

Lab File ID: UX995980.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		0.0349		0.179	0.200	-10.3	20.0
Diisopropyl ether	Ave	0.4900	0.4877		0.0199	0.0200	-0.5	20.0
2-Chloro-1,3-butadiene	Ave	0.7271	0.7040		0.0194	0.0200	-3.2	20.0
Ethyl-t-butyl ether (ETBE)	Ave	1.509	1.432		0.0190	0.0200	-5.1	20.0
Ethyl acetate	Ave	0.3371	0.2889		0.0343	0.0400	-14.3	20.0
Propionitrile	Ave	0.0467	0.0426		0.183	0.200	-8.7	20.0
Methacrylonitrile	Ave	0.2087	0.1892		0.181	0.200	-9.3	20.0
Tert-amyl-methyl ether (TAME)	Ave	1.513	1.440		0.0190	0.0200	-4.8	20.0
n-Butanol	Ave	0.0100	0.0095		0.474	0.500	-5.2	20.0
Ethyl acrylate	Ave	0.4660	0.4182		0.0180	0.0200	-10.2	20.0
Methyl methacrylate	Ave	0.3394	0.2934		0.0346	0.0400	-13.5	20.0
2-Nitropropane	Ave	0.1263	0.0987		0.0312	0.0400	-21.9*	20.0
n-Butyl acetate	Ave	0.7036	0.6492		0.0185	0.0200	-7.7	20.0
1-Chlorohexane	Ave	1.004	1.018		0.0203	0.0200	1.4	20.0
Cyclohexanone	Lin1		0.0277		0.187	0.200	-6.6	20.0
Pentachloroethane	Ave	0.7237	0.8206		0.0454	0.0400	13.4	20.0
1,2,3-Trimethylbenzene	Ave	5.004	4.996		0.0200	0.0200	-0.2	20.0
Benzyl chloride	Ave	0.5103	0.5831		0.0229	0.0200	14.3	20.0
1,3,5-Trichlorobenzene	Ave	1.678	1.703		0.0203	0.0200	1.5	20.0
2-Methylnaphthalene	Ave	1.001	0.9699		0.0387	0.0400	-3.1	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995980.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 13-Jun-2021 10:22:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-005
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub75

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jun-2021 11:05:58 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: bosworthh Date: 13-Jun-2021 11:05:58

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.879	5.879	0.000	99	958818	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.577	8.577	0.000	84	776651	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.813	10.813	0.000	95	413267	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.287	5.287	0.000	93	495662	20.0	20.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.583	5.583	0.000	99	515182	20.0	18.9	
$	6 Toluene-d8 (Surr)	98	7.251	7.251	0.000	92	1947154	20.0	20.9	
$	7 4-Bromofluorobenzene (Surr)	95	9.677	9.677	0.000	89	754026	20.0	20.6	
	27 Acetonitrile	41	3.607	3.607	0.000	99	335087	200.0	179.5	
	38 Isopropyl ether	87	4.435	4.435	0.000	92	467626	20.0	19.9	
	39 2-Chloro-1,3-butadiene	53	4.471	4.471	0.000	91	674962	20.0	19.4	
	40 Tert-butyl ethyl ether	59	4.755	4.755	0.000	95	1373407	20.0	19.0	
	44 Ethyl acetate	43	4.932	4.932	0.000	98	553989	40.0	34.3	
	45 Propionitrile	54	4.932	4.932	0.000	79	408639	200.0	182.6	
	46 Methacrylonitrile	41	5.062	5.062	0.000	90	1814033	200.0	181.3	
	163 Isooctane	57	5.713	5.713	0.000	97	1358668	20.0	22.1	
	57 Tert-amyl methyl ether	73	5.725	5.725	0.000	98	1380832	20.0	19.0	
	59 n-Butanol	56	6.080	6.080	0.000	85	226597	500.0	474.0	
	61 Ethyl acrylate	55	6.246	6.246	0.000	99	400995	20.0	18.0	
	64 Methyl methacrylate	41	6.447	6.447	0.000	84	562716	40.0	34.6	
	68 2-Nitropropane	41	6.790	6.790	0.000	99	189176	40.0	31.2	
	81 n-Butyl acetate	43	7.973	7.973	0.000	97	504233	20.0	18.5	
	84 1-Chlorohexane	91	8.553	8.553	0.000	90	790609	20.0	20.3	
	93 Cyclohexanone	55	9.618	9.618	0.000	91	114468	200.0	186.8	
	105 Pentachloroethane	167	10.446	10.446	0.000	93	678257	40.0	45.4	
	111 1,2,3-Trimethylbenzene	105	10.884	10.884	0.000	97	2064541	20.0	20.0	
	112 Benzyl chloride	126	10.967	10.967	0.000	98	240995	20.0	22.9	
	116 1,3,5-Trichlorobenzene	180	12.198	12.198	0.000	98	703854	20.0	20.3	
	121 2-Methylnaphthalene	142	14.505	14.505	0.000	94	801684	40.0	38.7	
	162 1-Methylnaphthalene	142	14.789	14.789	0.000	93	586098	40.0	39.3	

QC Flag Legend

Processing Flags

Reagents:

vmra9w_00394	Amount Added:	16.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL

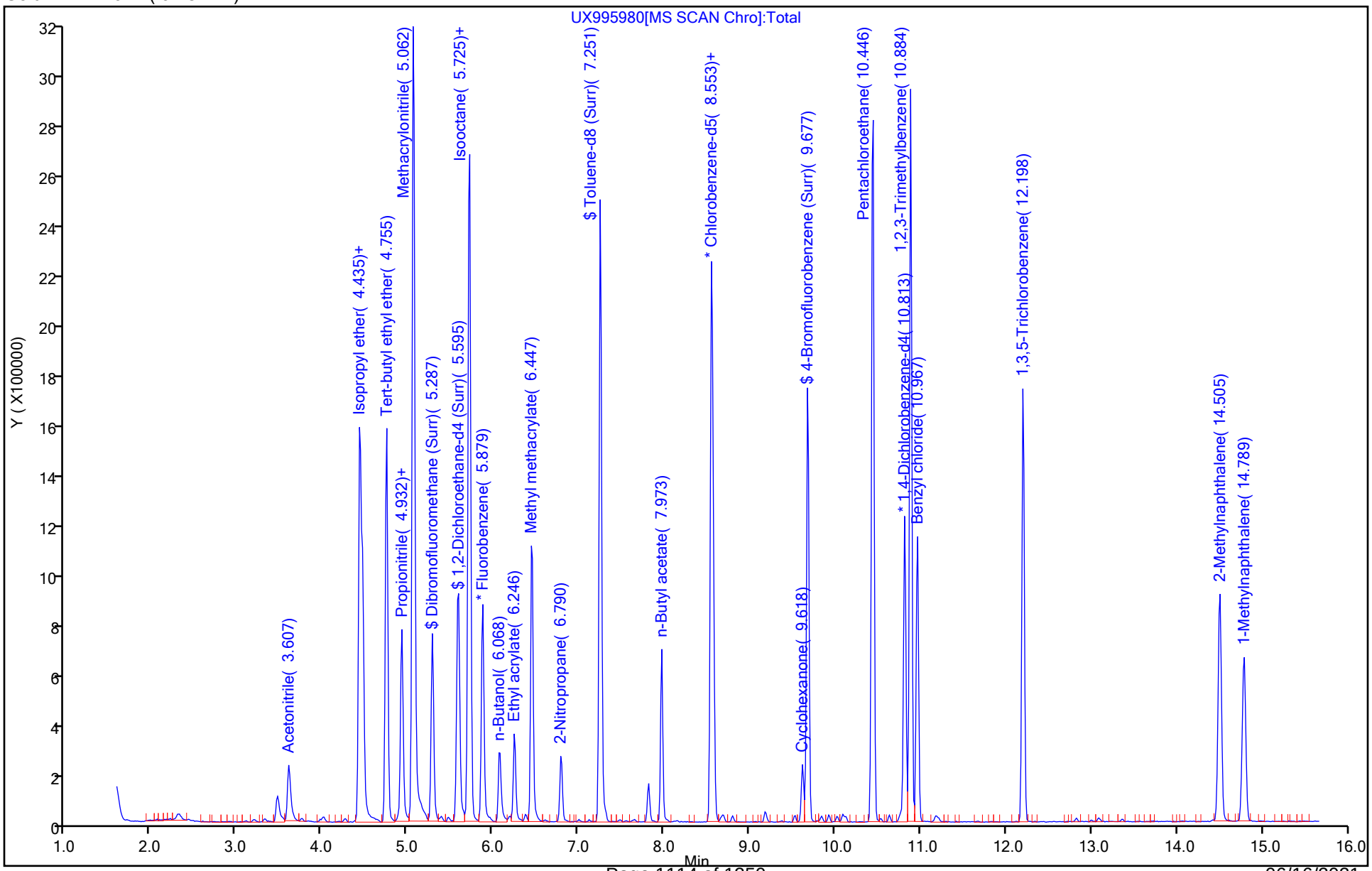
Report Date: 13-Jun-2021 11:05:59 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995980.D

Injection Date:	13-Jun-2021 10:22:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	CCV A9			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\BFB6676.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 23-Apr-2021 11:11:30 ALS Bottle#: 3 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0108510-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 26-Apr-2021 08:38:39 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: bosworthh Date: 23-Apr-2021 12:04:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.864	3.864	0.000	0	710968	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

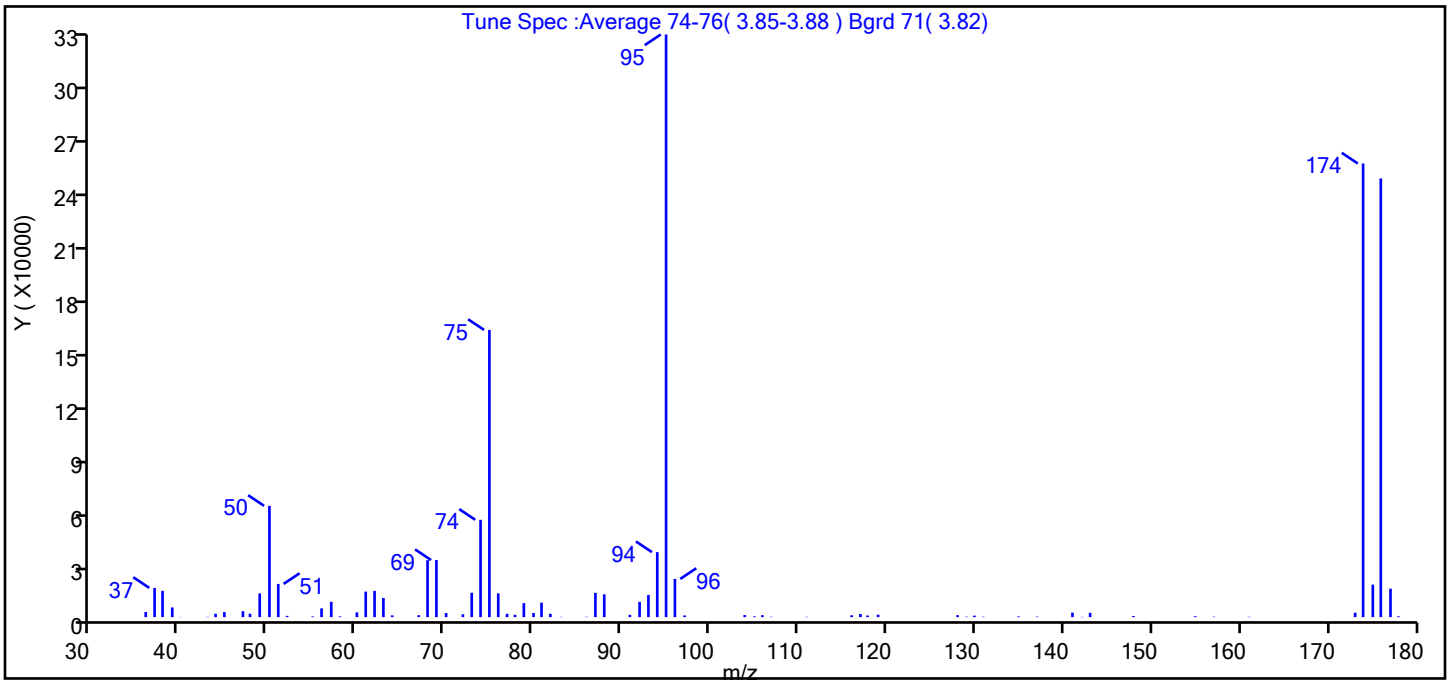
vmbfb_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\BFB6676.D
Injection Date: 23-Apr-2021 11:11:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 3 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	19.1
75	30 to 60% of m/z 95	49.3
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.8 (1.0)
174	50 to 120% of m/z 95	77.9
175	5 to 9% of m/z 174	5.6 (7.2)
176	Greater than 95% but less than 101% of m/z 174	75.3 (96.7)
177	5 to 9% of m/z 176	4.9 (6.5)

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\BFB6676.D\8260_16.rslt\spectra.d
Injection Date: 23-Apr-2021 11:11:30
Spectrum: Tune Spec :Average 74-76(3.85-3.88) Bgrd 71(3.82)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2868	62.00	14518	87.00	13428	130.00	836
37.00	16161	63.00	10592	88.00	12618	131.00	233
38.00	14533	64.00	992	91.00	1274	135.00	434
39.00	5366	67.00	1076	92.00	8458	137.00	292
40.00	114	68.00	31504	93.00	12246	141.00	2499
43.00	175	69.00	31552	94.00	35936	142.00	169
44.00	1854	70.00	2273	95.00	321984	143.00	2383
45.00	2789	72.00	1605	96.00	21112	148.00	601
47.00	3296	73.00	13465	97.00	942	155.00	510
48.00	1894	74.00	53800	104.00	1186	157.00	256
49.00	13111	75.00	158720	105.00	456	161.00	187
50.00	61496	76.00	13130	106.00	1078	173.00	2457
51.00	18360	77.00	1862	107.00	216	174.00	250688
52.00	708	78.00	1281	111.00	181	175.00	17960
55.00	407	79.00	7764	116.00	1059	176.00	242432
56.00	4859	80.00	2302	117.00	1735	177.00	15723
57.00	8494	81.00	8019	118.00	914	178.00	472
58.00	398	82.00	1834	119.00	1356		
60.00	2653	83.00	180	128.00	1102		
61.00	14121	86.00	216	129.00	254		

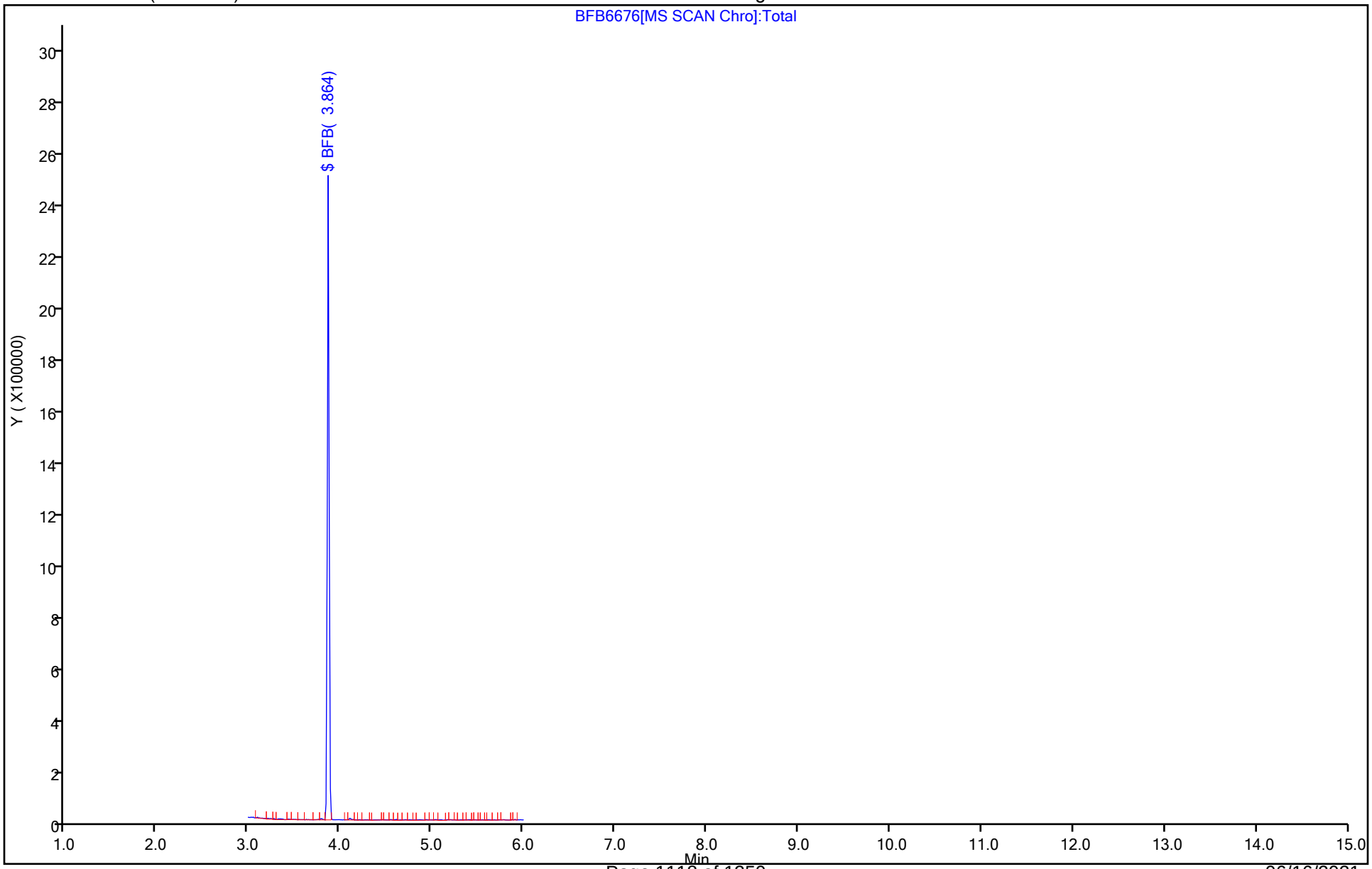
Report Date: 26-Apr-2021 08:38:39 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\BFB6676.D

Injection Date:	23-Apr-2021 11:11:30	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#:	3
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\20210609-110052.b\BFB6716.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Jun-2021 08:31:30 ALS Bottle#: 43 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-002
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Jun-2021 10:14:51 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1685

First Level Reviewer: bosworthh Date: 09-Jun-2021 10:14:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.864	3.864	0.000	0	324039	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

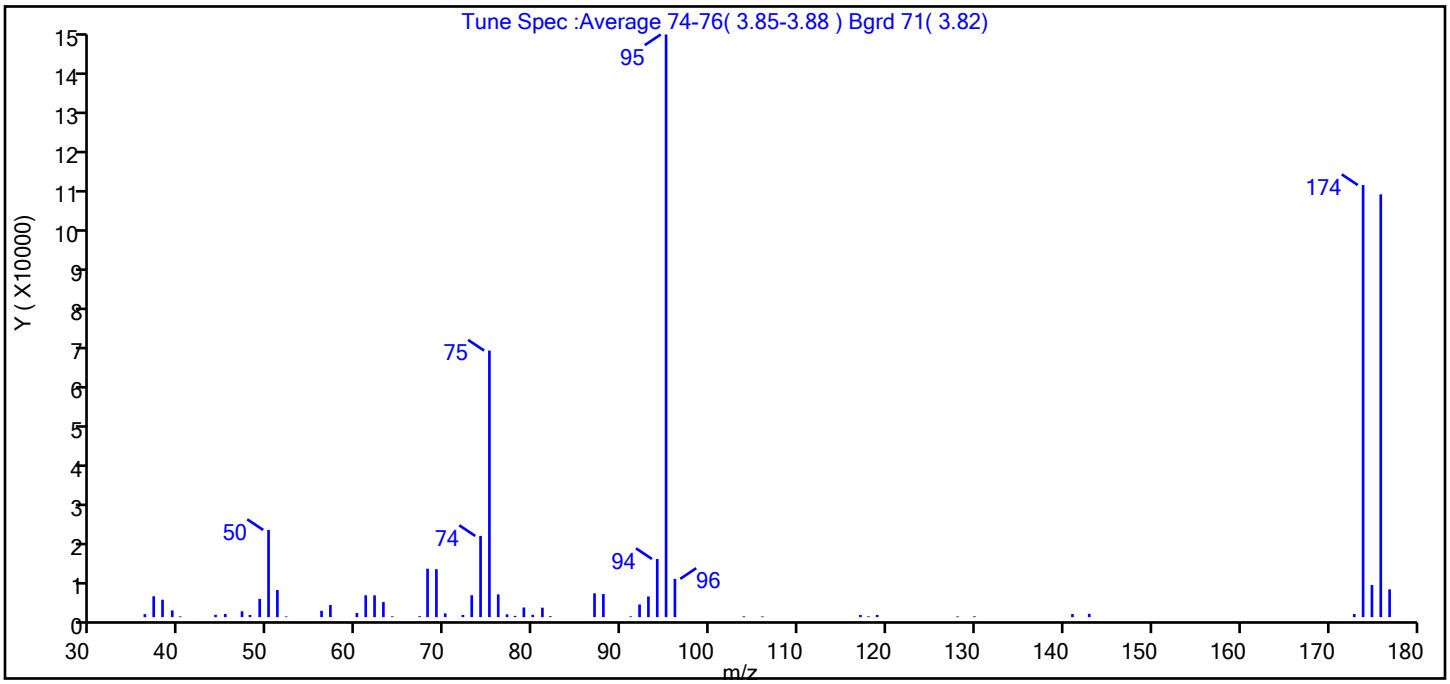
vmbfb_00027 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\BFB6716.D
Injection Date: 09-Jun-2021 08:31:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 43 Worklist Smp#: 2
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	15.0
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.5 (0.7)
174	50 to 120% of m/z 95	74.2
175	5 to 9% of m/z 174	5.5 (7.4)
176	Greater than 95% but less than 101% of m/z 174	72.6 (97.8)
177	5 to 9% of m/z 176	4.8 (6.6)

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\BFB6716.D\8260_16.rslt\spectra.d
Injection Date: 09-Jun-2021 08:31:30
Spectrum: Tune Spec :Average 74-76(3.85-3.88) Bgrd 71(3.82)
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	731	60.00	1024	78.00	317	117.00	534
37.00	5167	61.00	5418	79.00	2384	118.00	196
38.00	4311	62.00	5401	80.00	572	119.00	540
39.00	1656	63.00	3731	81.00	2351	128.00	183
40.00	184	64.00	195	82.00	229	130.00	207
44.00	564	67.00	229	87.00	5907	141.00	756
45.00	792	68.00	11989	88.00	5714	143.00	817
47.00	1448	69.00	11870	91.00	191	173.00	774
48.00	532	70.00	931	92.00	3133	174.00	106984
49.00	4523	72.00	546	93.00	5112	175.00	7949
50.00	21584	73.00	5426	94.00	14409	176.00	104680
51.00	6716	74.00	20104	95.00	144256	177.00	6885
52.00	181	75.00	66000	96.00	9483		
56.00	1577	76.00	5622	104.00	202		
57.00	2998	77.00	699	106.00	179		

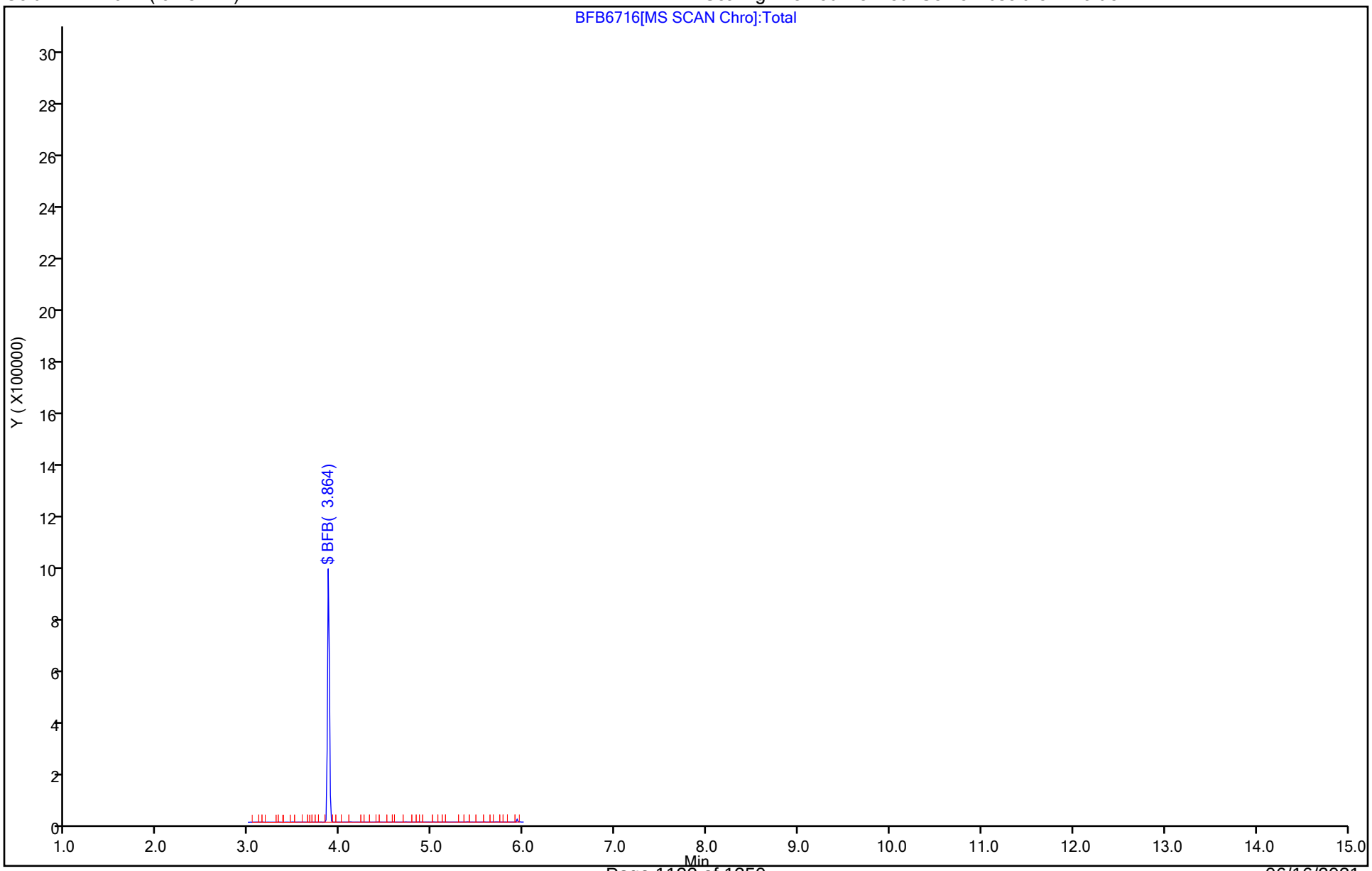
Report Date: 09-Jun-2021 10:14:51 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\BFB6716.D

Injection Date:	09-Jun-2021 08:31:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
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\20210614-110223.b\BFB6721.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Jun-2021 09:55:30 ALS Bottle#: 48 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 10:22:10 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 10:22:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.900	3.900	0.000	0	203871	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

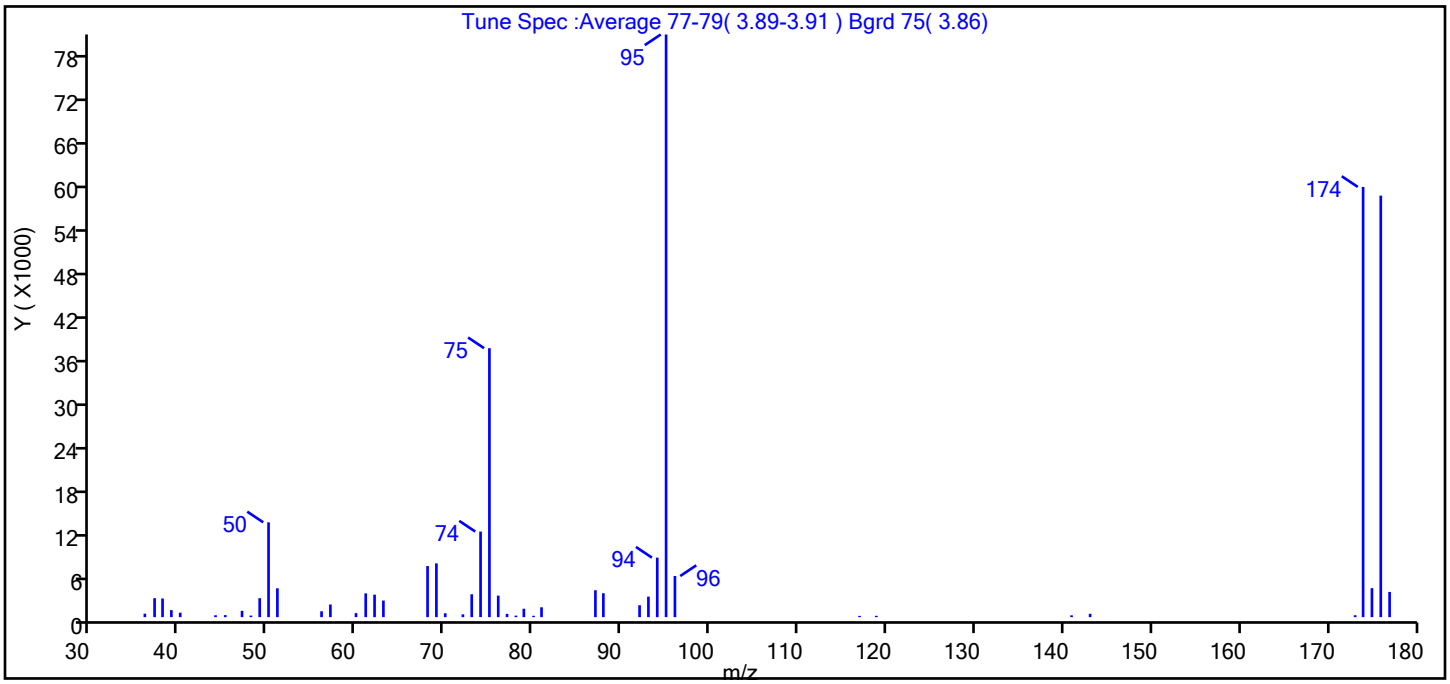
vmbfb_00027 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\BFB6721.D
Injection Date: 14-Jun-2021 09:55:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 48 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	16.3
75	30 to 60% of m/z 95	46.2
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	73.8
175	5 to 9% of m/z 174	5.0 (6.7)
176	Greater than 95% but less than 101% of m/z 174	72.3 (98.0)
177	5 to 9% of m/z 176	4.3 (6.0)

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\BFB6721.D\8260_16.rslt\spectra.d
Injection Date: 14-Jun-2021 09:55:30
Spectrum: Tune Spec :Average 77-79(3.89-3.91) Bgrd 75(3.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	479	56.00	812	75.00	37192	95.00	80568
37.00	2623	57.00	1749	76.00	2978	96.00	5687
38.00	2579	60.00	556	77.00	452	117.00	175
39.00	973	61.00	3287	78.00	212	119.00	185
40.00	617	62.00	3110	79.00	1161	141.00	253
44.00	262	63.00	2293	80.00	189	143.00	463
45.00	280	68.00	7064	81.00	1361	173.00	264
47.00	872	69.00	7436	87.00	3718	174.00	59488
48.00	220	70.00	534	88.00	3306	175.00	4009
49.00	2624	72.00	388	92.00	1645	176.00	58288
50.00	13112	73.00	3165	93.00	2838	177.00	3488
51.00	3990	74.00	11835	94.00	8230		

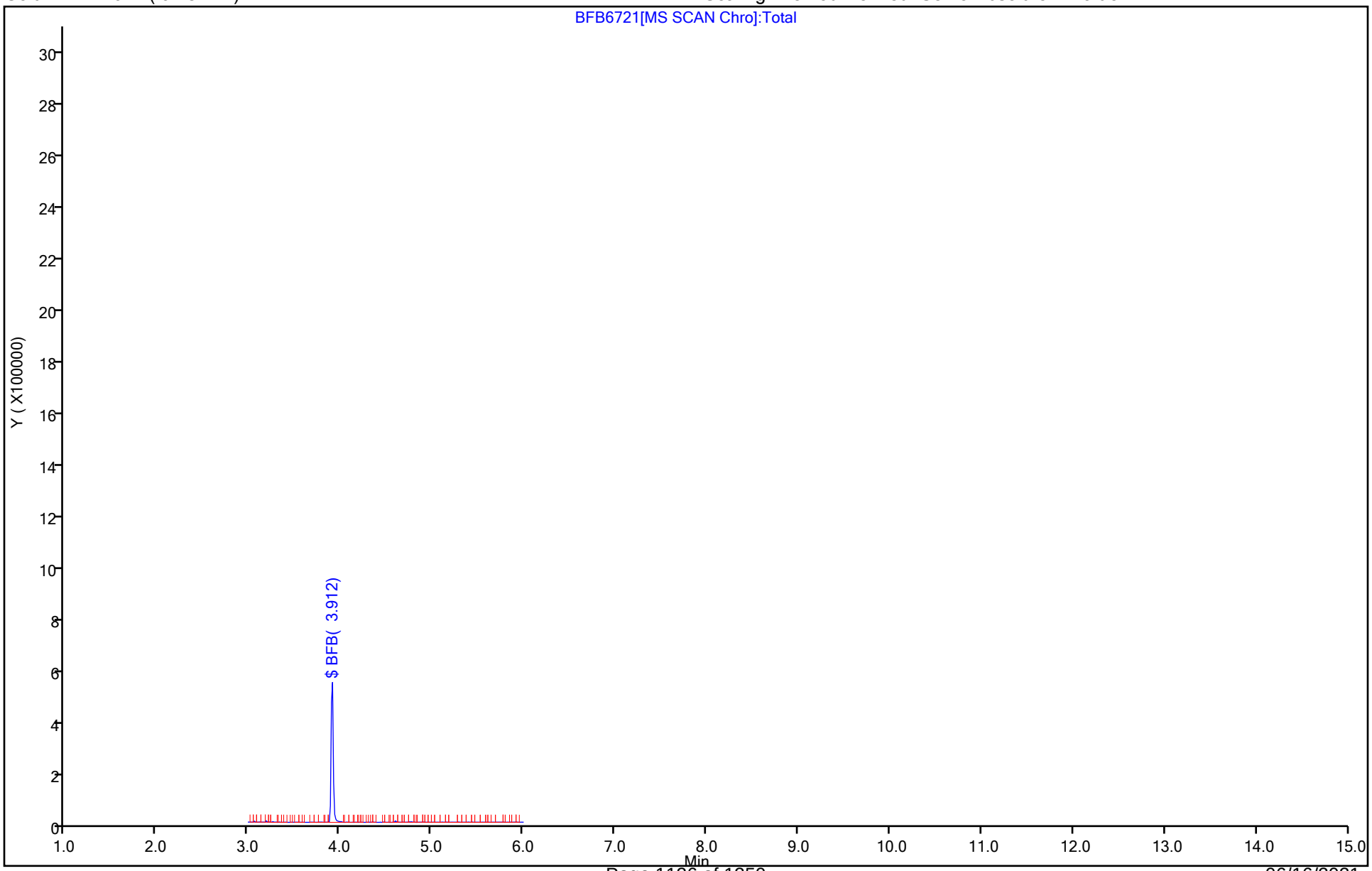
Report Date: 14-Jun-2021 10:22:11 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\BFB6721.D

Injection Date:	14-Jun-2021 09:55:30	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#:	48
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\A3UX9\20210610-110117.b\BFB1289.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Jun-2021 10:18:30 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0110117-001
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jun-2021 10:19:34 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: bosworthh Date: 10-Jun-2021 10:57:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.927	3.927	0.000	0	1124605	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

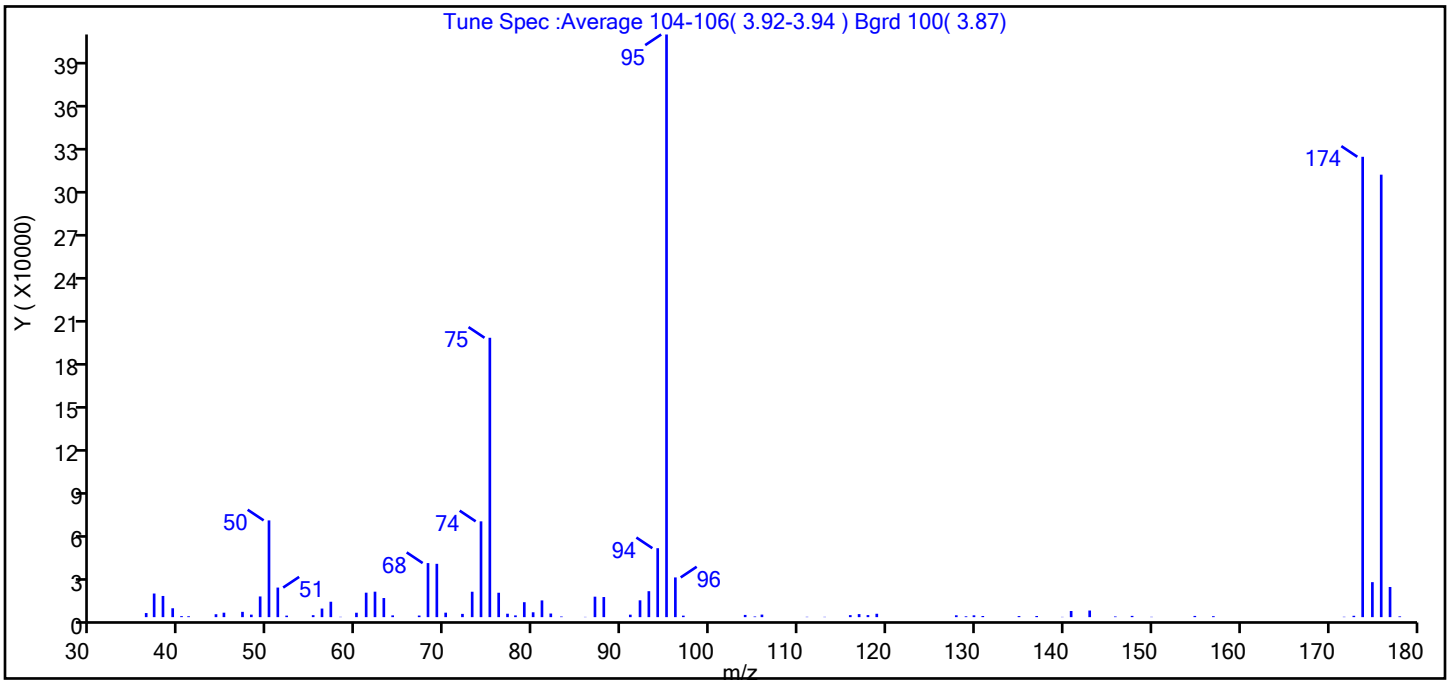
vmbfb_00027 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\BFB1289.D
Injection Date: 10-Jun-2021 10:18:30 Instrument ID: A3UX9
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_9 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	47.9
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	79.0
175	5 to 9% of m/z 174	6.0 (7.6)
176	Greater than 95% but less than 101% of m/z 174	75.9 (96.1)
177	5 to 9% of m/z 176	5.2 (6.8)

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\BFB1289.D\8260_9.rslt\spectra.d
Injection Date: 10-Jun-2021 10:18:30
Spectrum: Tune Spec :Average 104-106(3.92-3.94) Bgrd 100(3.87)
Base Peak: 95.05
Minimum % Base Peak: 0
Number of Points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2820	62.00	17504	87.00	14071	130.00	1250
37.00	16236	63.00	13137	88.00	13823	131.00	783
38.00	14564	64.00	1210	91.00	1695	135.00	739
39.00	6115	67.00	1097	92.00	11565	137.00	780
40.00	694	68.00	37168	93.00	17848	140.00	179
41.00	619	69.00	36656	94.00	47400	141.00	4227
44.00	2002	70.00	3074	95.00	400576	143.00	4546
45.00	3060	72.00	2243	96.00	27304	146.00	464
47.00	3647	73.00	17472	97.00	1029	148.00	867
48.00	1721	74.00	65864	104.00	1530	150.00	219
49.00	14226	75.00	192064	105.00	457	155.00	836
50.00	66512	76.00	16776	106.00	1749	157.00	654
51.00	20336	77.00	2358	111.00	229	172.00	251
52.00	1046	78.00	1200	113.00	201	173.00	931
55.00	1349	79.00	10275	116.00	1387	174.00	316480
56.00	5906	80.00	3344	117.00	2091	175.00	24056
57.00	10593	81.00	11506	118.00	1408	176.00	304192
58.00	213	82.00	2492	119.00	2327	177.00	20736
60.00	3024	83.00	426	128.00	1264	178.00	517
61.00	16816	86.00	174	129.00	574		

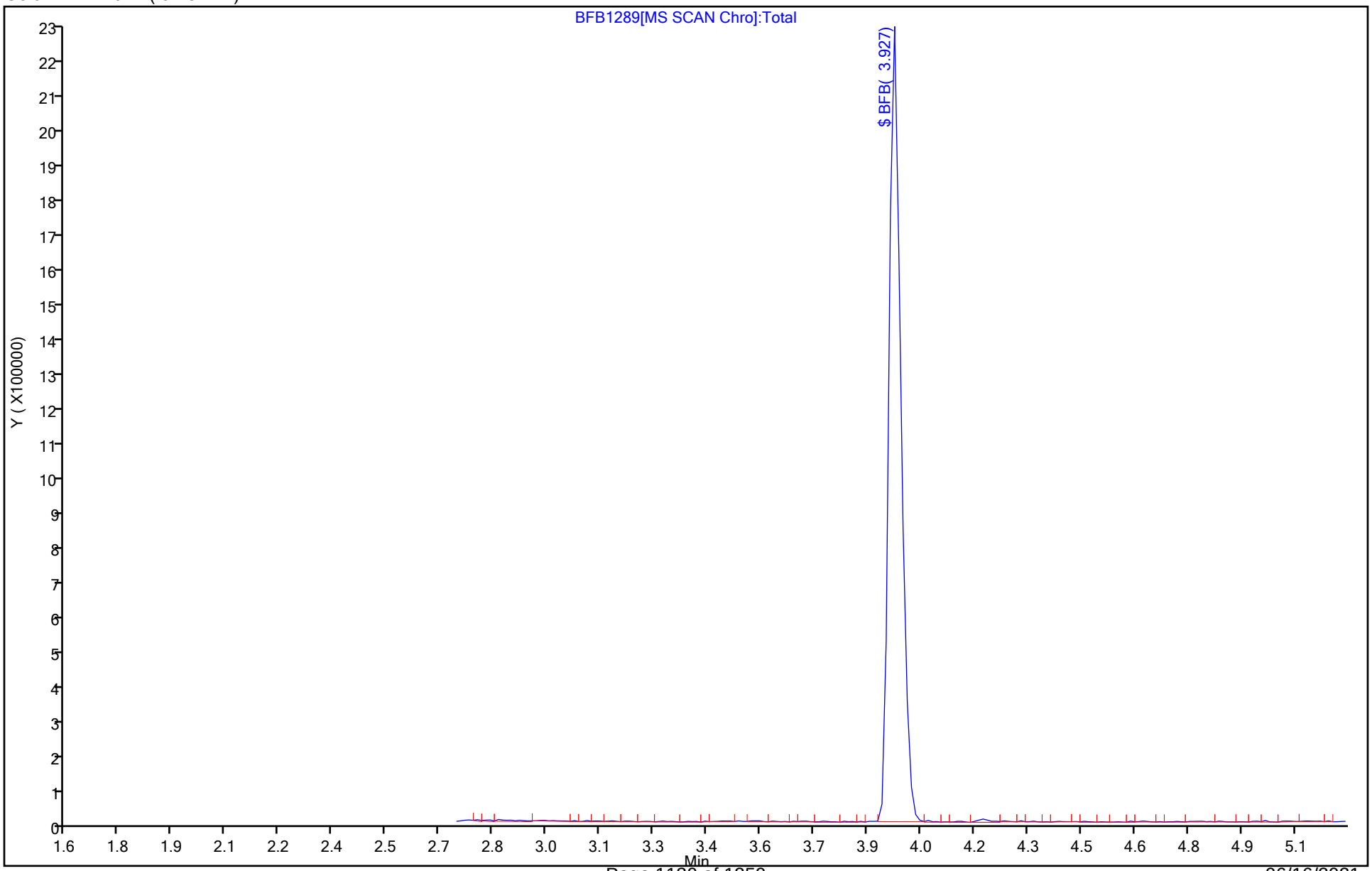
Report Date: 11-Jun-2021 10:19:34 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\BFB1289.D

Injection Date:	10-Jun-2021 10:18:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\BFB1291.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Jun-2021 09:29:30 ALS Bottle#: 52 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-001
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jun-2021 09:52:52 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: bosworthh Date: 13-Jun-2021 09:52:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.042	4.042	0.000	0	703992	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

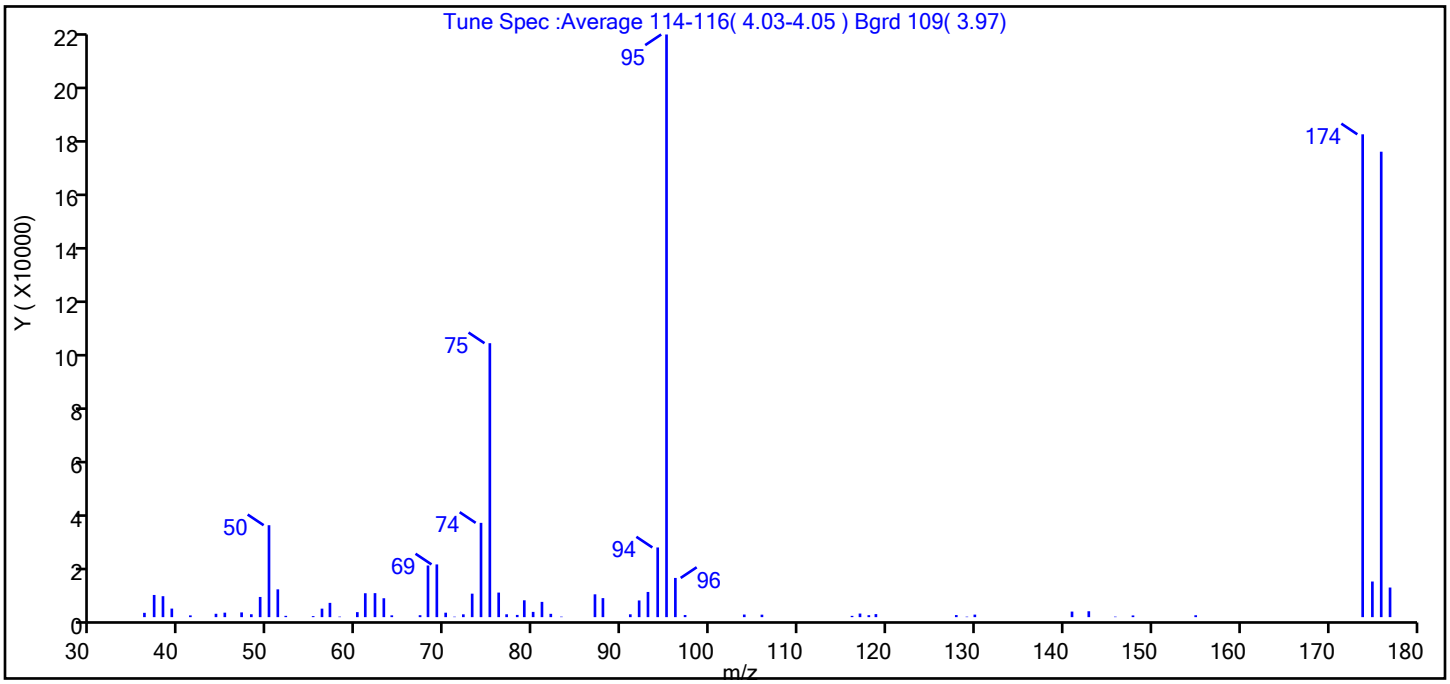
vmbfb_00027 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\BFB1291.D
Injection Date: 13-Jun-2021 09:29:30 Instrument ID: A3UX9
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 52 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_9 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	15.8
75	30 to 60% of m/z 95	47.0
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	82.9
175	5 to 9% of m/z 174	6.1 (7.4)
176	Greater than 95% but less than 101% of m/z 174	79.9 (96.4)
177	5 to 9% of m/z 176	5.1 (6.4)

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\BFB1291.D\8260_9.rslt\spectra.d
Injection Date: 13-Jun-2021 09:29:30
Spectrum: Tune Spec :Average 114-116(4.03-4.05) Bgrd 109(3.97)
Base Peak: 95.05
Minimum % Base Peak: 0
Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1588	60.00	1842	79.00	6197	117.00	1325
37.00	8163	61.00	8793	80.00	1934	118.00	720
38.00	7709	62.00	8830	81.00	5616	119.00	1117
39.00	3148	63.00	6955	82.00	1220	128.00	761
41.00	645	64.00	664	83.00	182	129.00	178
44.00	1240	67.00	712	87.00	8399	130.00	931
45.00	1648	68.00	19008	88.00	6999	141.00	2051
47.00	1746	69.00	19400	91.00	1041	143.00	2175
48.00	1065	70.00	1637	92.00	6144	146.00	185
49.00	7431	71.00	167	93.00	9270	148.00	625
50.00	33824	72.00	1033	94.00	25640	155.00	697
51.00	10230	73.00	8640	95.00	214400	174.00	177664
52.00	482	74.00	34696	96.00	14425	175.00	13109
55.00	376	75.00	100800	97.00	776	176.00	171264
56.00	3127	76.00	9037	104.00	958	177.00	10898
57.00	5254	77.00	1052	106.00	913		
58.00	188	78.00	821	116.00	474		

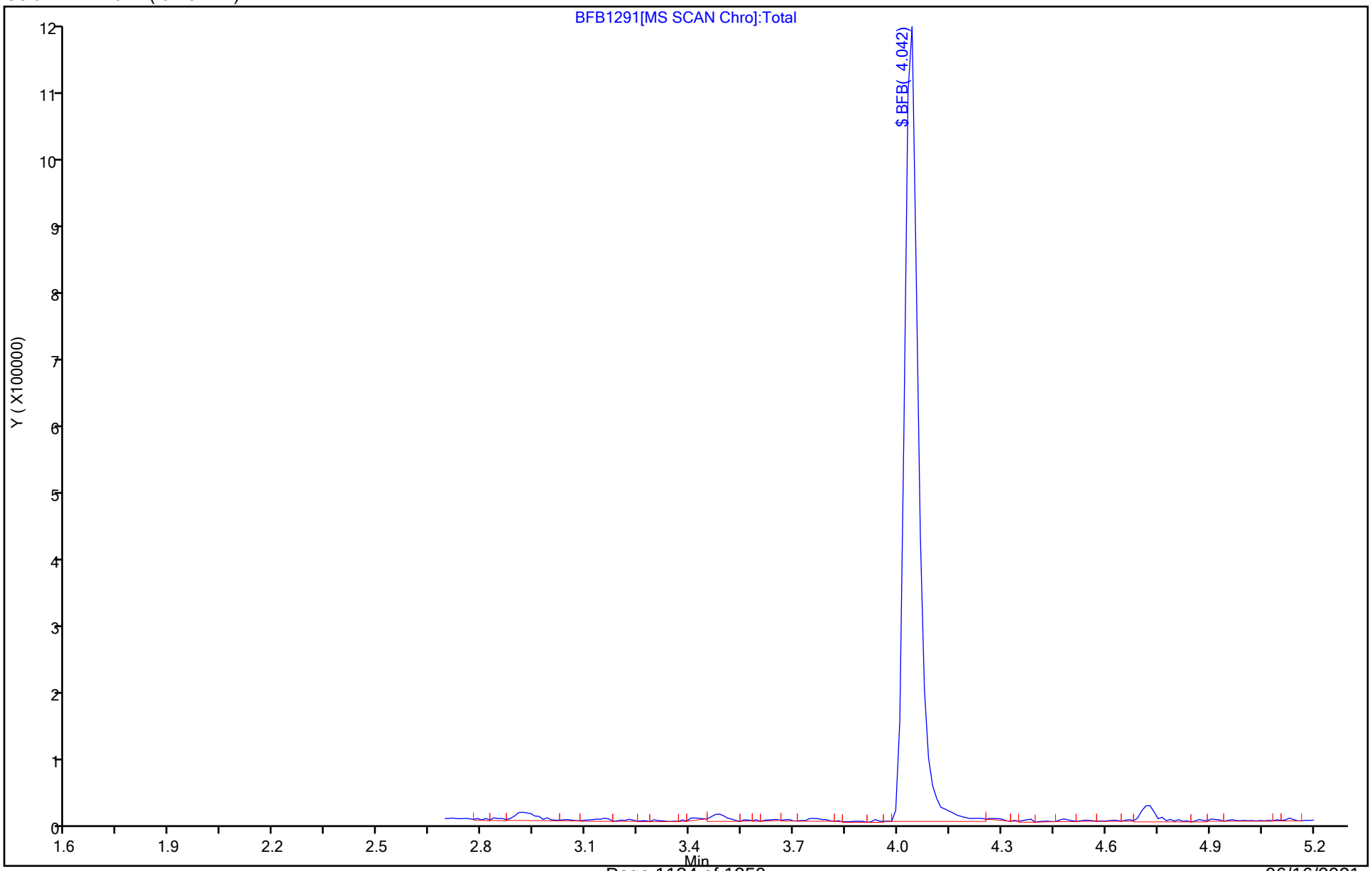
Report Date: 13-Jun-2021 09:52:52 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\BFB1291.D

Injection Date:	13-Jun-2021 09:29:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-489711/8

Matrix: Water Lab File ID: UXM37734.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 10:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-489711/8

Matrix: Water Lab File ID: UXM37734.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 10:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-489711/8

Matrix: Water Lab File ID: UXM37734.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 10:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 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)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-489711/8

Matrix: Water Lab File ID: UXM37734.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 10:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 Units: ug/L

Number TICs Found: 2 TIC Result Total: 3.443

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.54	3.21	T J	
74-88-4	Iodomethane	3.39	0.233	J	88%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37734.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Jun-2021 10:54:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Jun-2021 11:37:25 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1685

First Level Reviewer: bosworthh Date: 09-Jun-2021 13:38:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	783118	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	659376	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	368575	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.265	0.011	94	216638	22.7	22.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	213610	22.7	19.0	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	881421	22.7	21.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	88	369703	22.7	23.9	
9 Dichlorodifluoromethane	85		1.707					ND	
10 Chloromethane	50		1.897					ND	
11 Vinyl chloride	62		2.015					ND	
12 Butadiene	54		2.051					ND	
13 Bromomethane	94		2.359					ND	7
14 Chloroethane	64		2.478					ND	
123 Ethylene oxide	44	2.549	2.537	0.012	32	1616		NC	
15 Dichlorofluoromethane	67		2.703					ND	
16 Trichlorofluoromethane	101		2.727					ND	
17 Ethyl ether	59		3.011					ND	
18 Acrolein	56		3.154					ND	
120 Propene oxide	58		3.203					ND	
19 1,1-Dichloroethene	96		3.237					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.249					ND	
21 Acetone	58		3.284					ND	
23 Iodomethane	142	3.391	3.391	0.000	88	2692		0.2331	
24 Carbon disulfide	76		3.450					ND	
25 Acetonitrile	41		3.557					ND	
27 Methyl acetate	43		3.569					ND	
26 3-Chloro-1-propene	41		3.592					ND	
22 Methylal	45		3.629					ND	
28 Methylene Chloride	84		3.711					ND	
29 2-Methyl-2-propanol	59		3.794					ND	
30 Acrylonitrile	53		3.925					ND	
31 Methyl tert-butyl ether	73		3.936					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		3.960					ND	
33 Hexane	57		4.197					ND	
35 Vinyl acetate	43		4.340					ND	
34 1,1-Dichloroethane	63		4.351					ND	
36 Isopropyl ether	87		4.363					ND	
37 2-Chloro-1,3-butadiene	53		4.411					ND	
38 Tert-butyl ethyl ether	59		4.683					ND	
40 2-Butanone (MEK)	72		4.826					ND	
39 cis-1,2-Dichloroethene	96		4.849					ND	
41 2,2-Dichloropropane	77		4.849					ND	
43 Ethyl acetate	43		4.861					ND	
42 Propionitrile	54		4.897					ND	
44 Methacrylonitrile	41		5.015					ND	
45 Chlorobromomethane	128		5.051					ND	
46 Tetrahydrofuran	42		5.063					ND	
47 Chloroform	83		5.134					ND	
48 1,1,1-Trichloroethane	97		5.288					ND	
49 Cyclohexane	56		5.348					ND	
51 Carbon tetrachloride	117		5.419					ND	
50 1,1-Dichloropropene	75		5.419					ND	
52 Isobutyl alcohol	41		5.478					ND	
54 Benzene	78		5.597					ND	
53 1,2-Dichloroethane	62		5.632					ND	
163 Isooctane	57		5.680					ND	
55 Tert-amyl methyl ether	73		5.680					ND	
56 n-Heptane	57		5.822					ND	7
57 n-Butanol	56		6.035					ND	
58 Trichloroethene	130		6.154					ND	
59 Ethyl acrylate	55		6.201					ND	
60 Methylcyclohexane	83		6.356					ND	
61 1,2-Dichloropropane	63		6.379					ND	
62 Methyl methacrylate	41		6.403					ND	
64 1,4-Dioxane	88		6.427					ND	
63 Dibromomethane	93		6.450					ND	
65 Dichlorobromomethane	83		6.605					ND	
66 2-Nitropropane	41		6.794					ND	
67 2-Chloroethyl vinyl ether	63		6.830					ND	
121 Epichlorohydrin	57		6.972					ND	
68 cis-1,3-Dichloropropene	75		6.984					ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.103					ND	
70 Toluene	91		7.280					ND	
71 trans-1,3-Dichloropropene	75		7.482					ND	
72 Ethyl methacrylate	69		7.518					ND	
73 1,1,2-Trichloroethane	97		7.672					ND	
75 Tetrachloroethene	164		7.755					ND	
74 1,3-Dichloropropane	76		7.814					ND	
76 2-Hexanone	43		7.850					ND	
77 n-Butyl acetate	43		7.945					ND	
78 Chlorodibromomethane	129		8.016					ND	
79 Tetrahydrothiophene	60		8.021					ND	
80 Ethylene Dibromide	107		8.134					ND	
81 1-Chlorohexane	91		8.549					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 Chlorobenzene	112		8.597					ND	
83 1,1,1,2-Tetrachloroethane	131		8.668					ND	
84 Ethylbenzene	106		8.680					ND	
85 m-Xylene & p-Xylene	106		8.798					ND	
86 o-Xylene	106		9.166					ND	
87 Styrene	104		9.190					ND	
88 Bromoform	173		9.368					ND	
89 Isopropylbenzene	105		9.510					ND	
91 Cyclohexanone	55		9.617					ND	
90 1,4-Dichlorobutane	55		9.688					ND	
92 1,1,2,2-Tetrachloroethane	83		9.818					ND	
93 Bromobenzene	156		9.842					ND	
94 trans-1,4-Dichloro-2-butene	53		9.854					ND	
95 1,2,3-Trichloropropane	110		9.877					ND	
96 N-Propylbenzene	120		9.925					ND	
97 2-Chlorotoluene	126		10.020					ND	
99 1,3,5-Trimethylbenzene	105		10.103					ND	
100 4-Chlorotoluene	126		10.138					ND	
98 3-Ethyltoluene	105		10.411					ND	
101 2-Ethyltoluene	105		10.411					ND	
102 tert-Butylbenzene	119		10.411					ND	
103 Pentachloroethane	167		10.447					ND	
104 1,2,4-Trimethylbenzene	105		10.470					ND	
105 sec-Butylbenzene	105		10.636					ND	
106 1,3-Dichlorobenzene	146		10.755					ND	
107 4-Isopropyltoluene	119		10.779					ND	
108 1,4-Dichlorobenzene	146		10.862					ND	
109 1,2,3-Trimethylbenzene	105		10.885					ND	
110 Benzyl chloride	126		10.968					ND	
111 n-Butylbenzene	91		11.194					ND	
112 1,2-Dichlorobenzene	146		11.217					ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000					ND	
114 1,3,5-Trichlorobenzene	180		12.190					ND	
115 1,2,4-Trichlorobenzene	180		12.830					ND	
116 Hexachlorobutadiene	225		12.973					ND	
117 Naphthalene	128		13.115					ND	
118 1,2,3-Trichlorobenzene	180		13.364					ND	
119 2-Methylnaphthalene	142		14.538					ND	
162 1-Methylnaphthalene	142		14.811					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

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Eurofins TestAmerica, Canton
Tentatively Identified Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37734.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	09-Jun-2021 10:54:30	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110052-008				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	09-Jun-2021 11:37:25	Calib Date:	23-Apr-2021 18:30:30		
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:	CTX1685				
First Level Reviewer: bosworthh		Date:	09-Jun-2021 13:38:42		

Tentative Identified Compound Results

RT	Area	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
		Unknown						
1.541	242641	3.21	1					

Quantitation Compounds

Compound	RT	Area	Amount ug/l
* 1 Fluorobenzene	5.846	1513046	20.0

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

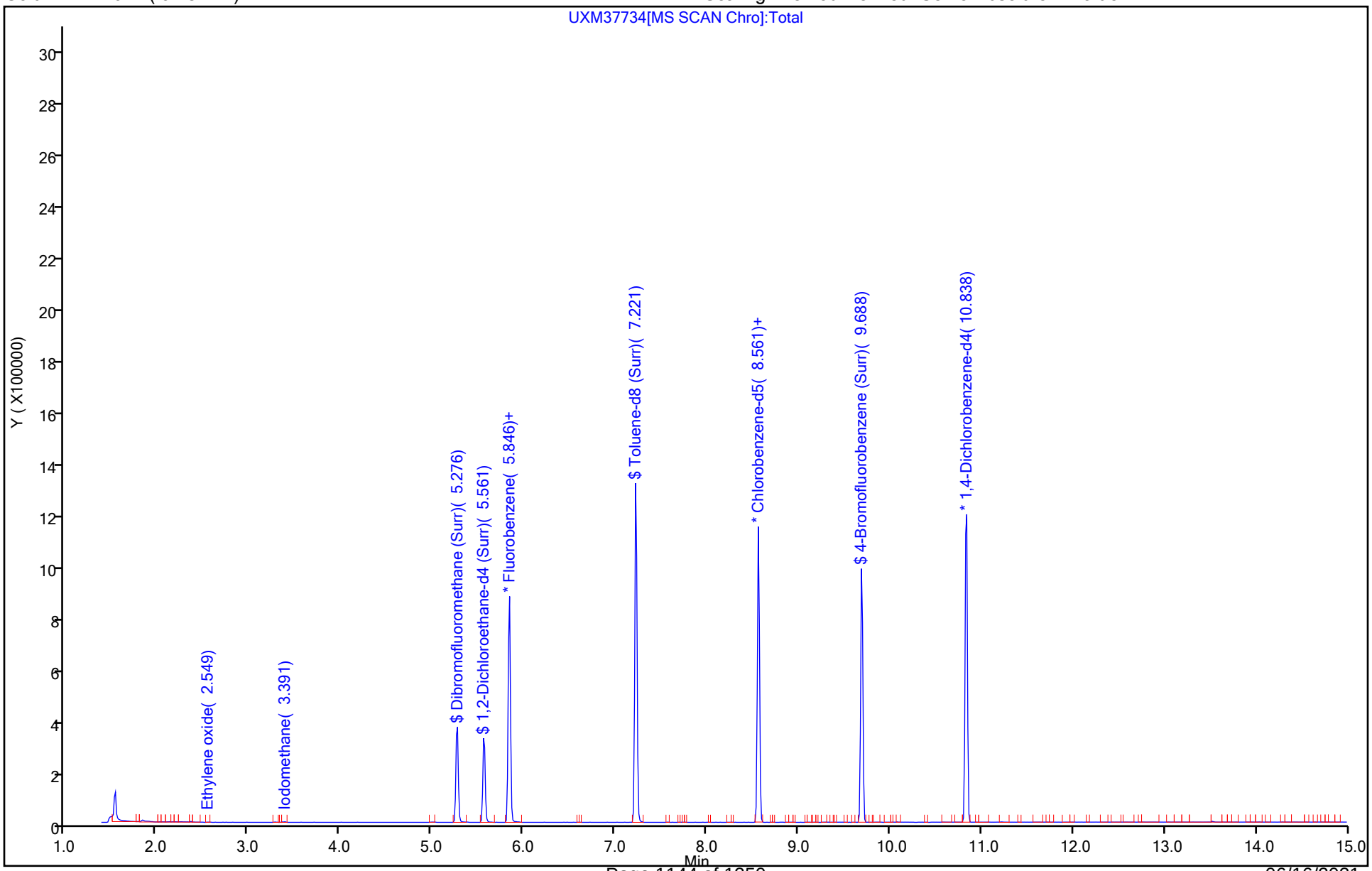
Report Date: 09-Jun-2021 13:38:43 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37734.D

Injection Date:	09-Jun-2021 10:54:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
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\20210609-110052.b\UXM37734.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Jun-2021 10:54:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Jun-2021 11:37:25 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1685

First Level Reviewer: bosworthh Date: 09-Jun-2021 13:38:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.8	100.50
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.0	83.94
$ 6 Toluene-d8 (Surr)	22.7	21.9	96.68
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.9	105.45

Report Date: 09-Jun-2021 13:38:43 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37734.D

Injection Date: 09-Jun-2021 10:54:30 Instrument ID: A3UX16

Lims ID: MB

Client ID:

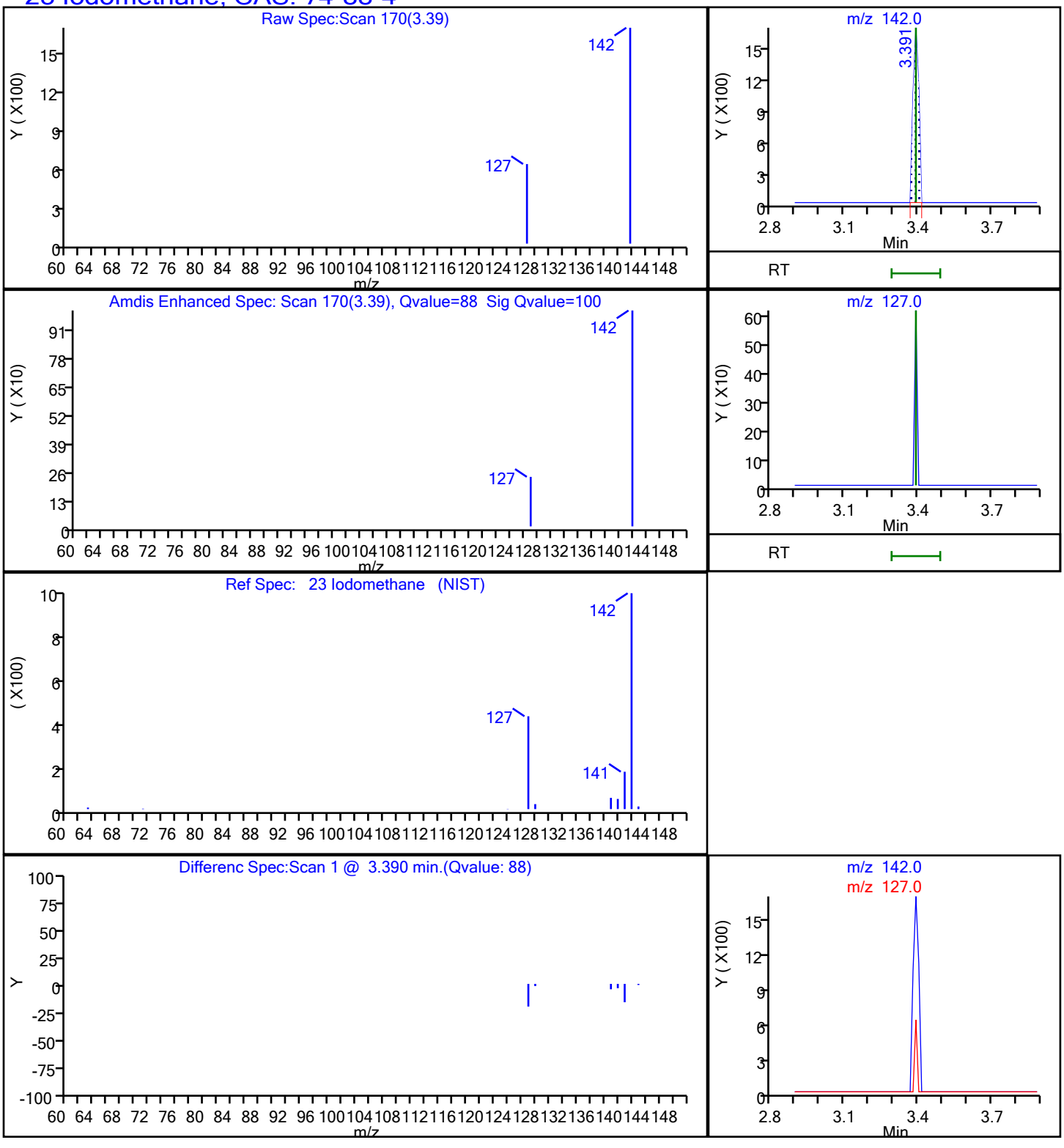
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8

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

23 Iodomethane, CAS: 74-88-4



Report Date: 09-Jun-2021 13:38:43 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37734.D

Injection Date: 09-Jun-2021 10:54:30 Instrument ID: A3UX16

Lims ID: MB

Client ID:

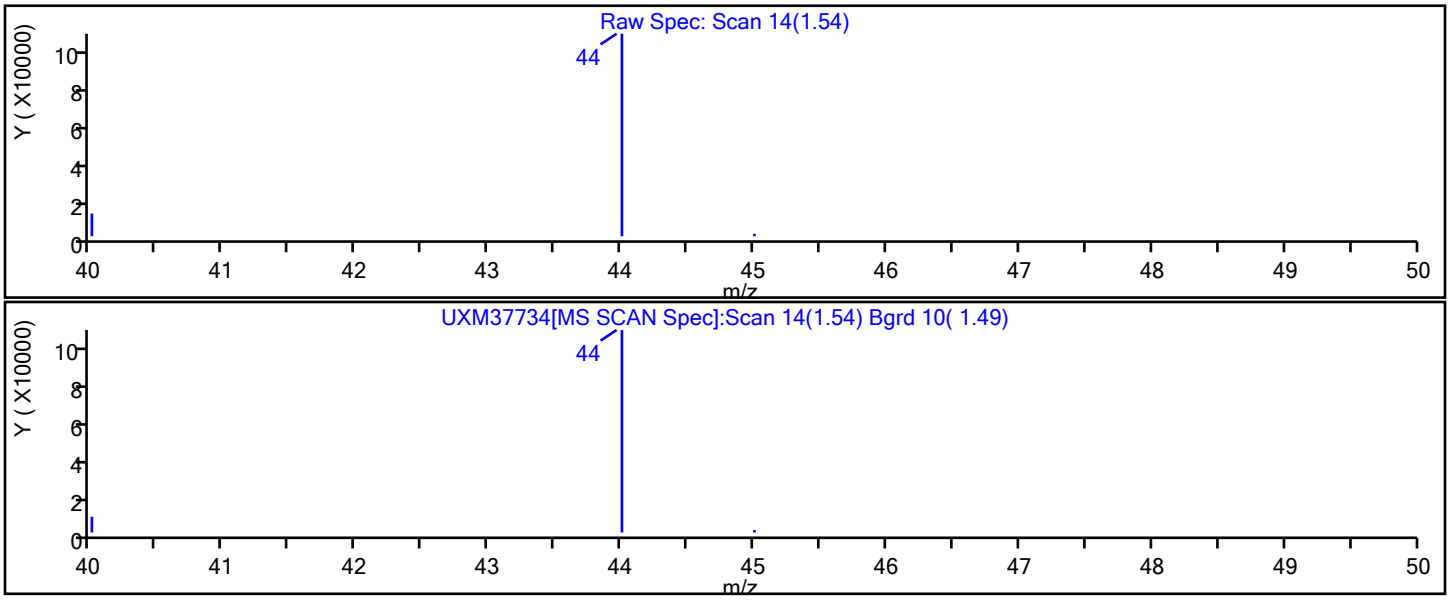
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-490350/9

Matrix: Water Lab File ID: UX995984.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 11:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-490350/9

Matrix: Water Lab File ID: UX995984.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 11:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-490350/9

Matrix: Water Lab File ID: UX995984.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 11:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	106		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-490350/9

Matrix: Water Lab File ID: UX995984.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 11:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 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\A3UX9\20210613-110195.b\UX995984.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 13-Jun-2021 11:53:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-009
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:50:32 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:50:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	873490	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.577	-0.003	85	721448	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.813	-0.002	96	382232	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	93	460359	20.0	21.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	99	492904	20.0	19.8	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	93	1837030	20.0	21.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	89	695182	20.0	20.5	
9 Dichlorodifluoromethane	85		1.763					ND	
10 Chloromethane	50		1.952					ND	
11 Vinyl chloride	62		2.082					ND	
12 Butadiene	54		2.118					ND	
14 Ethylene oxide	43		2.386					ND	U
13 Bromomethane	94		2.437					ND	7
15 Chloroethane	64		2.544					ND	
16 Dichlorofluoromethane	67		2.745					ND	
17 Trichlorofluoromethane	101		2.816					ND	
18 Ethyl ether	59		3.100					ND	
19 Propene oxide	58		3.120					ND	
21 Acrolein	56		3.218					ND	
24 1,1-Dichloroethene	61		3.325					ND	
22 112TCTFE	101		3.325					ND	
23 Acetone	58		3.360					ND	7
25 Iodomethane	142		3.466					ND	7
20 Methylal	45		3.534					ND	
26 Carbon disulfide	76		3.537					ND	7
27 Acetonitrile	41		3.607					ND	7
28 3-Chloro-1-propene	41		3.656					ND	7
29 Methyl acetate	43		3.668					ND	7
30 Methylene Chloride	49		3.762					ND	7
31 2-Methyl-2-propanol	59		3.845					ND	
32 Acrylonitrile	53		3.963					ND	
33 Methyl tert-butyl ether	73		4.011					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	61		4.023					ND	
35 Hexane	57		4.271					ND	
36 1,1-Dichloroethane	63		4.389					ND	
37 Vinyl acetate	43		4.413					ND	7
38 Isopropyl ether	87		4.435					ND	
39 2-Chloro-1,3-butadiene	53		4.471					ND	
40 Tert-butyl ethyl ether	59		4.755					ND	
43 cis-1,2-Dichloroethene	96		4.886					ND	
41 2-Butanone (MEK)	72		4.886					ND	
42 2,2-Dichloropropane	77		4.898					ND	
44 Ethyl acetate	43		4.932					ND	
45 Propionitrile	54		4.932					ND	
46 Methacrylonitrile	41		5.062					ND	
47 Chlorobromomethane	49		5.088					ND	
48 Tetrahydrofuran	42		5.135					ND	
49 Chloroform	83		5.147					ND	
50 1,1,1-Trichloroethane	97		5.336					ND	
51 Cyclohexane	84		5.395					ND	
52 1,1-Dichloropropene	75		5.466					ND	
53 Carbon tetrachloride	117		5.478					ND	
54 Isobutyl alcohol	41		5.514					ND	
56 1,2-Dichloroethane	62		5.644					ND	
55 Benzene	78		5.644					ND	
163 Isooctane	57		5.713					ND	
57 Tert-amyl methyl ether	73		5.725					ND	
58 n-Heptane	71		5.857					ND	U
59 n-Butanol	56		6.080					ND	
60 Trichloroethene	130		6.200					ND	
61 Ethyl acrylate	55		6.246					ND	
62 Methylcyclohexane	83		6.377					ND	
63 1,2-Dichloropropane	63		6.377					ND	
64 Methyl methacrylate	41		6.447					ND	
66 Dibromomethane	174		6.484					ND	
65 1,4-Dioxane	88		6.496					ND	
67 Dichlorobromomethane	83		6.614					ND	
68 2-Nitropropane	41	6.800	6.790	0.010	43	802		0.1454	
69 2-Chloroethyl vinyl ether	63		6.851					ND	
70 Epichlorohydrin	57		6.907					ND	
71 cis-1,3-Dichloropropene	75		7.005					ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.123					ND	
73 Toluene	91		7.312					ND	
74 trans-1,3-Dichloropropene	75		7.478					ND	
75 Ethyl methacrylate	69		7.549					ND	
76 1,1,2-Trichloroethane	97		7.655					ND	
77 1,3-Dichloropropane	76		7.809					ND	
78 Tetrachloroethene	166		7.821					ND	
80 2-Hexanone	43		7.868					ND	
79 Tetrahydrothiophene	60		7.955					ND	
81 n-Butyl acetate	43		7.973					ND	
82 Chlorodibromomethane	129		8.022					ND	
83 Ethylene Dibromide	107		8.140					ND	
84 1-Chlorohexane	91		8.553					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112		8.602					ND	
86 1,1,1,2-Tetrachloroethane	131		8.661					ND	
87 Ethylbenzene	106		8.697					ND	
88 m-Xylene & p-Xylene	106		8.803					ND	
89 o-Xylene	106		9.182					ND	
90 Styrene	104		9.194					ND	
91 Bromoform	173		9.371					ND	
92 Isopropylbenzene	105		9.525					ND	
93 Cyclohexanone	55		9.618					ND	
99 3-Ethyltoluene	105		9.768					ND	
94 1,1,2,2-Tetrachloroethane	83		9.797					ND	
95 Bromobenzene	156		9.844					ND	
97 1,2,3-Trichloropropane	110		9.844					ND	
96 trans-1,4-Dichloro-2-butene	53		9.844					ND	
98 N-Propylbenzene	120		9.927					ND	
100 2-Chlorotoluene	126		10.022					ND	
103 2-Ethyltoluene	105		10.051					ND	
101 1,3,5-Trimethylbenzene	105		10.093					ND	
102 4-Chlorotoluene	126		10.128					ND	
104 tert-Butylbenzene	119		10.424					ND	
105 Pentachloroethane	167		10.446					ND	
106 1,2,4-Trimethylbenzene	105		10.460					ND	
107 sec-Butylbenzene	134		10.637					ND	
108 1,3-Dichlorobenzene	146		10.755					ND	
109 4-Isopropyltoluene	119		10.779					ND	
110 1,4-Dichlorobenzene	146		10.838					ND	
111 1,2,3-Trimethylbenzene	105		10.884					ND	
112 Benzyl chloride	126		10.967					ND	
113 n-Butylbenzene	91		11.181					ND	
114 1,2-Dichlorobenzene	146		11.217					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.974					ND	
116 1,3,5-Trichlorobenzene	180		12.198					ND	
117 1,2,4-Trichlorobenzene	180		12.826					ND	
118 Hexachlorobutadiene	225		13.004					ND	
119 Naphthalene	128		13.087					ND	
120 1,2,3-Trichlorobenzene	180		13.359					ND	
121 2-Methylnaphthalene	142		14.505					ND	
162 1-Methylnaphthalene	142		14.789					ND	
123 1,4-Dichlorobutane	1		0.700					ND	
122 Butyl Methacrylate TIC	1		0.700					ND	
126 Isobutylene TIC	1		0.700					ND	
S 158 Total BTEX	1		0.400					ND	
S 128 1,2-Dichloroethene, Total	96		1.840					ND	
S 129 1,3-Dichloropropene, Total	75		7.460					ND	
S 130 Trihalomethanes, Total	83		16.700					ND	
S 131 Xylenes, Total	106		17.230					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

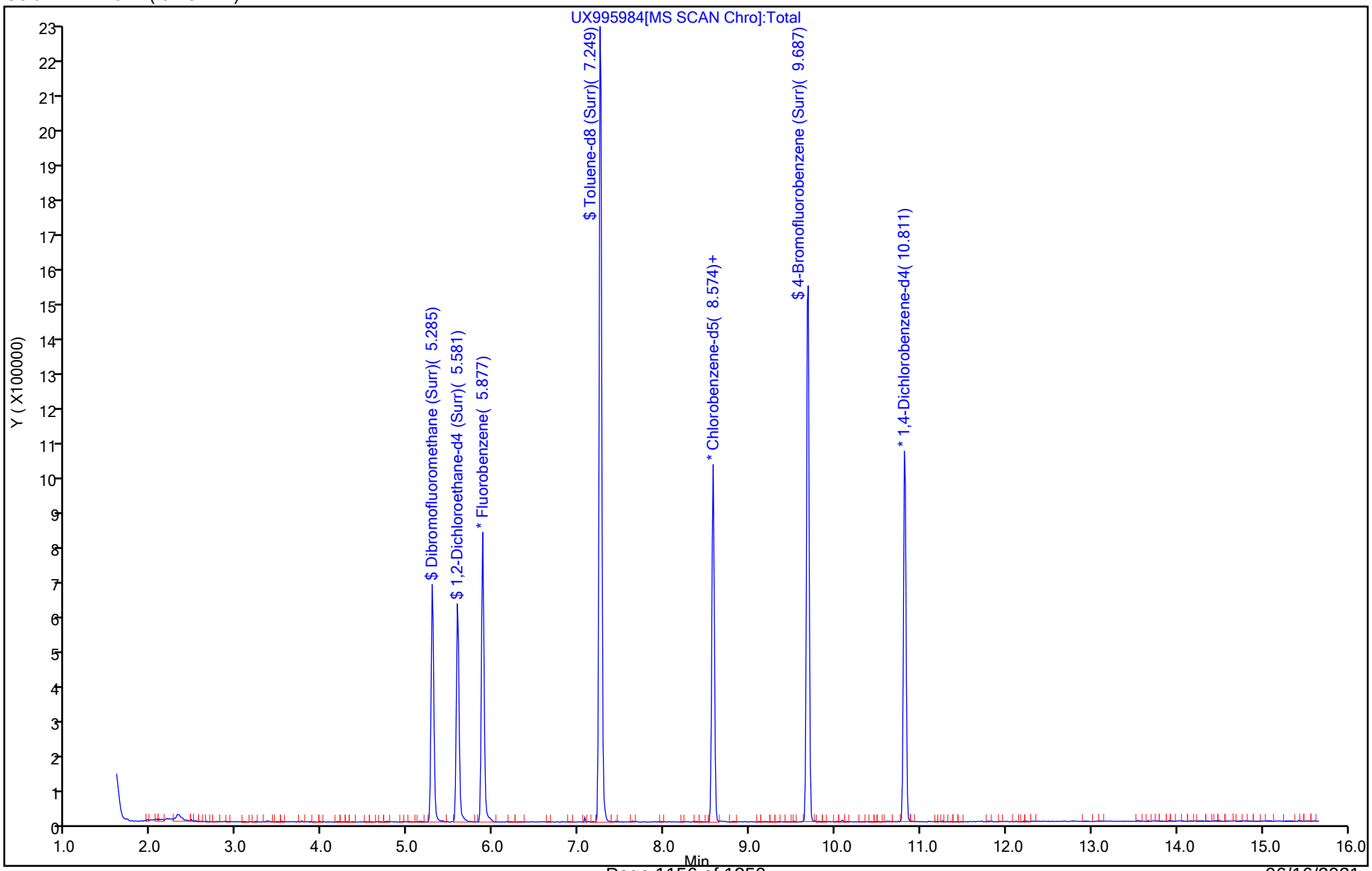
Report Date: 14-Jun-2021 07:50:33 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995984.D

Injection Date:	13-Jun-2021 11:53:30	Instrument ID:	A3UX9	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_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995984.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 13-Jun-2021 11:53:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-009
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:50:32 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:50:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.1	105.45
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.8	99.24
$ 6 Toluene-d8 (Surr)	20.0	21.2	105.92
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.5	102.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-490456/8

Matrix: Water Lab File ID: UXM37871.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 12:30

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	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	10	U	10	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	2.0	U	2.0	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	10	U	10	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-490456/8

Matrix: Water Lab File ID: UXM37871.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 12:30

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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	10	U	10	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	10	U	10	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	40	U	40	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	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-490456/8

Matrix: Water Lab File ID: UXM37871.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 12:30

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 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)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-490456/8

Matrix: Water Lab File ID: UXM37871.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 12:30

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

Number TICs Found: 2 TIC Result Total: 4.067

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.54	3.49	T J	
74-88-4	Iodomethane	3.39	0.577	J	91%

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37871.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Jun-2021 12:30:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 10:47:42 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 12:55:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	739502	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	617291	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	341903	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	207609	22.7	23.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	213460	22.7	20.1	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	810018	22.7	21.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	334791	22.7	23.1	
9 Dichlorodifluoromethane	85		1.707					ND	
10 Chloromethane	50		1.897					ND	
11 Vinyl chloride	62		2.015					ND	
12 Butadiene	54		2.051					ND	
13 Bromomethane	94		2.359					ND	7
14 Chloroethane	64		2.478					ND	
123 Ethylene oxide	44	2.537	2.537	0.000	32	905		NC	
15 Dichlorofluoromethane	67		2.703					ND	
16 Trichlorofluoromethane	101		2.727					ND	
17 Ethyl ether	59		3.011					ND	
18 Acrolein	56		3.154					ND	
120 Propene oxide	58		3.203					ND	
19 1,1-Dichloroethene	96		3.248					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.248					ND	
21 Acetone	58		3.284					ND	
23 Iodomethane	142	3.391	3.391	0.000	91	6287		0.5766	
24 Carbon disulfide	76		3.450					ND	
25 Acetonitrile	41		3.557					ND	
27 Methyl acetate	43		3.569					ND	
26 3-Chloro-1-propene	41		3.592					ND	
22 Methylal	45		3.629					ND	
28 Methylene Chloride	84		3.711					ND	
29 2-Methyl-2-propanol	59		3.794					ND	
30 Acrylonitrile	53		3.924					ND	
31 Methyl tert-butyl ether	73		3.948					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		3.960					ND	
33 Hexane	57		4.197					ND	
35 Vinyl acetate	43		4.339					ND	
34 1,1-Dichloroethane	63		4.351					ND	
36 Isopropyl ether	87		4.363					ND	
37 2-Chloro-1,3-butadiene	53		4.411					ND	
38 Tert-butyl ethyl ether	59		4.683					ND	
40 2-Butanone (MEK)	72		4.826					ND	
41 2,2-Dichloropropane	77		4.849					ND	
39 cis-1,2-Dichloroethene	96		4.849					ND	
43 Ethyl acetate	43		4.861					ND	
42 Propionitrile	54		4.897					ND	
44 Methacrylonitrile	41		5.015					ND	
45 Chlorobromomethane	128		5.051					ND	
46 Tetrahydrofuran	42		5.063					ND	
47 Chloroform	83		5.134					ND	
48 1,1,1-Trichloroethane	97		5.288					ND	
49 Cyclohexane	56		5.347					ND	
50 1,1-Dichloropropene	75		5.419					ND	
51 Carbon tetrachloride	117		5.419					ND	
52 Isobutyl alcohol	41		5.478					ND	
54 Benzene	78		5.596					ND	
53 1,2-Dichloroethane	62		5.632					ND	
163 Isooctane	57		5.679					ND	
55 Tert-amyl methyl ether	73		5.679					ND	
56 n-Heptane	57		5.822					ND	7
57 n-Butanol	56		6.035					ND	
58 Trichloroethene	130		6.154					ND	
59 Ethyl acrylate	55		6.201					ND	
60 Methylcyclohexane	83		6.355					ND	
61 1,2-Dichloropropane	63		6.379					ND	
62 Methyl methacrylate	41		6.403					ND	
64 1,4-Dioxane	88		6.427					ND	
63 Dibromomethane	93		6.462					ND	
65 Dichlorobromomethane	83		6.604					ND	
66 2-Nitropropane	41		6.794					ND	
67 2-Chloroethyl vinyl ether	63		6.830					ND	
121 Epichlorohydrin	57		6.972					ND	
68 cis-1,3-Dichloropropene	75		6.984					ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.102					ND	
70 Toluene	91		7.292					ND	
71 trans-1,3-Dichloropropene	75		7.482					ND	
72 Ethyl methacrylate	69		7.518					ND	
73 1,1,2-Trichloroethane	97		7.672					ND	
75 Tetrachloroethene	164		7.755					ND	
74 1,3-Dichloropropane	76		7.826					ND	
76 2-Hexanone	43		7.850					ND	
77 n-Butyl acetate	43		7.944					ND	
78 Chlorodibromomethane	129		8.016					ND	
79 Tetrahydrothiophene	60		8.021					ND	
80 Ethylene Dibromide	107		8.134					ND	
81 1-Chlorohexane	91		8.561					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		8.597					ND	
83 1,1,1,2-Tetrachloroethane	131		8.668					ND	
84 Ethylbenzene	106		8.680					ND	
85 m-Xylene & p-Xylene	106		8.798					ND	
86 o-Xylene	106		9.166					ND	
87 Styrene	104		9.190					ND	
88 Bromoform	173		9.367					ND	
89 Isopropylbenzene	105		9.522					ND	
91 Cyclohexanone	55		9.617					ND	
90 1,4-Dichlorobutane	55		9.688					ND	
92 1,1,2,2-Tetrachloroethane	83		9.818					ND	
93 Bromobenzene	156		9.842					ND	
94 trans-1,4-Dichloro-2-butene	53		9.854					ND	
95 1,2,3-Trichloropropane	110		9.877					ND	
96 N-Propylbenzene	120		9.925					ND	
97 2-Chlorotoluene	126		10.020					ND	
99 1,3,5-Trimethylbenzene	105		10.103					ND	
100 4-Chlorotoluene	126		10.138					ND	
98 3-Ethyltoluene	105		10.411					ND	
101 2-Ethyltoluene	105		10.411					ND	
102 tert-Butylbenzene	119		10.411					ND	
103 Pentachloroethane	167		10.447					ND	
104 1,2,4-Trimethylbenzene	105		10.470					ND	
105 sec-Butylbenzene	105		10.636					ND	
106 1,3-Dichlorobenzene	146		10.755					ND	
107 4-Isopropyltoluene	119		10.779					ND	
108 1,4-Dichlorobenzene	146		10.862					ND	
109 1,2,3-Trimethylbenzene	105		10.885					ND	
110 Benzyl chloride	126		10.968					ND	
111 n-Butylbenzene	91		11.194					ND	
112 1,2-Dichlorobenzene	146		11.217					ND	
113 1,2-Dibromo-3-Chloropropane	157		12.000					ND	
114 1,3,5-Trichlorobenzene	180		12.190					ND	
115 1,2,4-Trichlorobenzene	180		12.830					ND	
116 Hexachlorobutadiene	225		12.972					ND	
117 Naphthalene	128		13.115					ND	
118 1,2,3-Trichlorobenzene	180		13.364					ND	
119 2-Methylnaphthalene	142		14.538					ND	
162 1-Methylnaphthalene	142		14.811					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

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Eurofins TestAmerica, Canton
Tentatively Identified Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37871.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	14-Jun-2021 12:30:30	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0110223-008				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	14-Jun-2021 10:47:42	Calib Date:	23-Apr-2021 18:30:30		
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:	CTX1641				
First Level Reviewer: bosworthh		Date:	14-Jun-2021 12:55:23		

Tentative Identified Compound Results

RT	Area	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
		Unknown						
1.541	250328	3.49	1					

Quantitation Compounds

Compound	RT	Area	Amount ug/l
* 1 Fluorobenzene	5.846	1433102	20.0

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

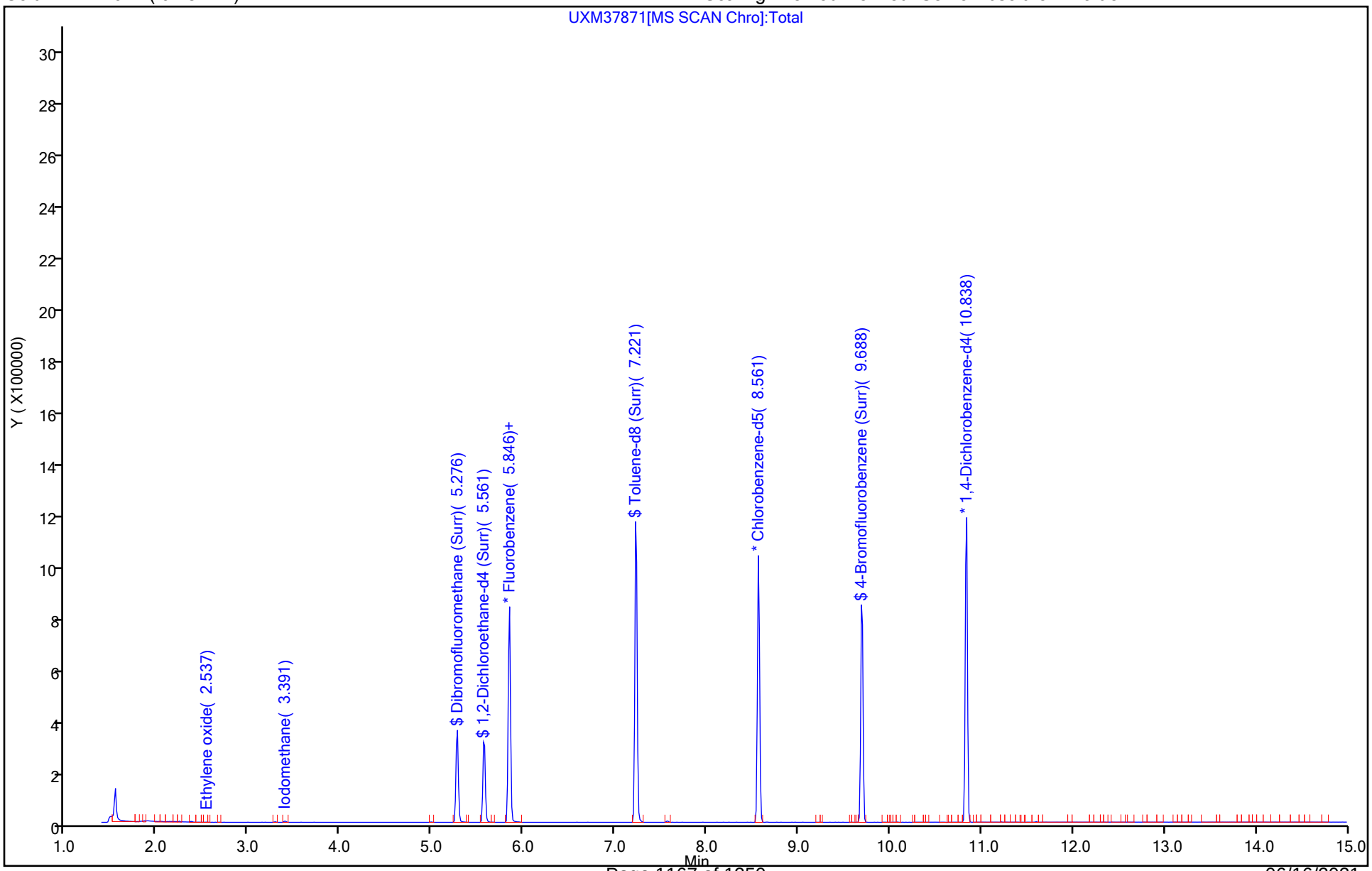
Report Date: 14-Jun-2021 12:55:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37871.D

Injection Date:	14-Jun-2021 12:30:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
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\20210614-110223.b\UXM37871.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Jun-2021 12:30:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 10:47:42 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 12:55:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	23.1	101.99
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.1	88.82
$ 6 Toluene-d8 (Surr)	22.7	21.5	94.90
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.1	102.00

Report Date: 14-Jun-2021 12:55:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37871.D

Injection Date: 14-Jun-2021 12:30:30 Instrument ID: A3UX16

Lims ID: MB

Client ID:

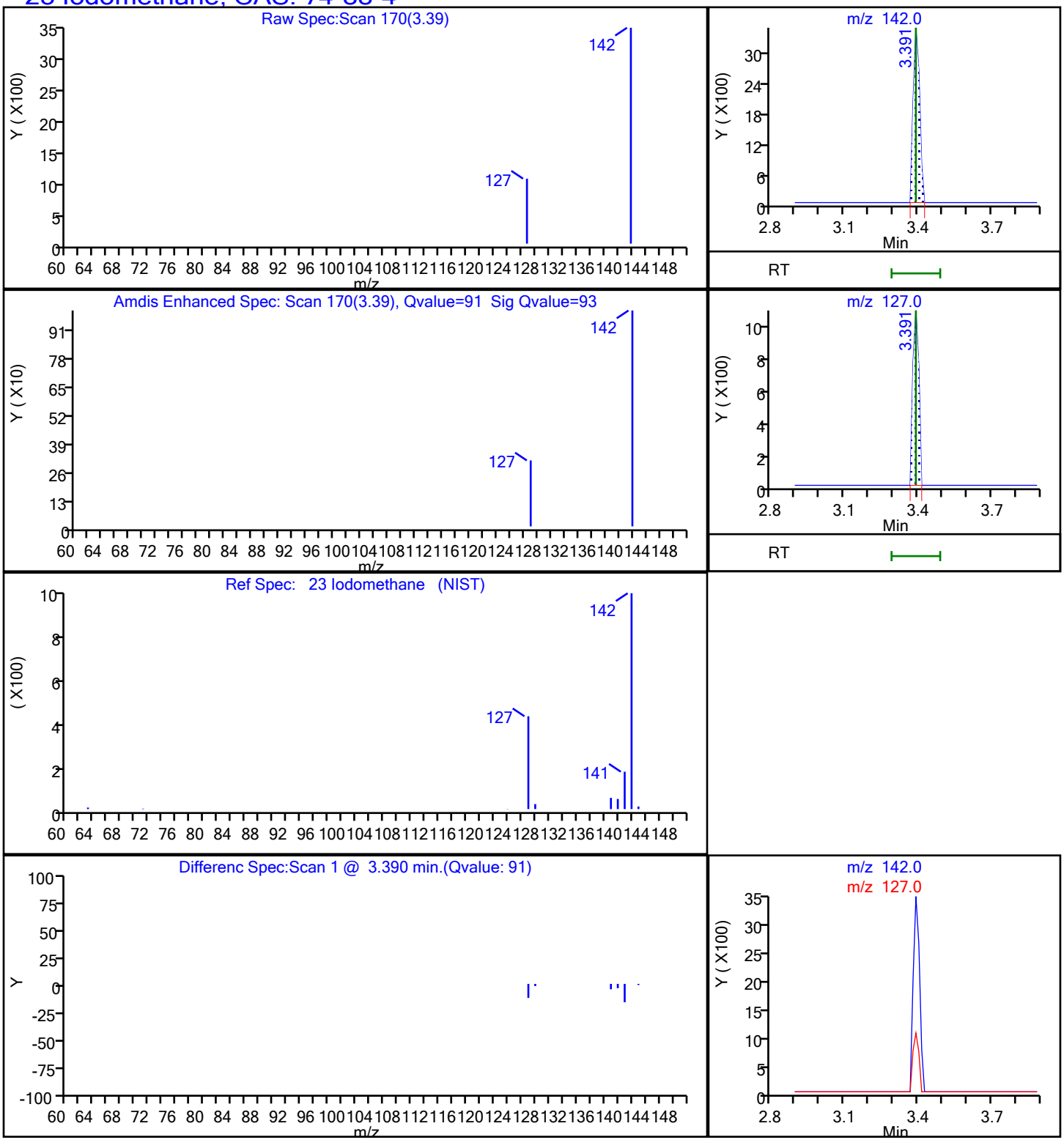
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8

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

23 Iodomethane, CAS: 74-88-4



Report Date: 14-Jun-2021 12:55:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37871.D

Injection Date: 14-Jun-2021 12:30:30 Instrument ID: A3UX16

Lims ID: MB

Client ID:

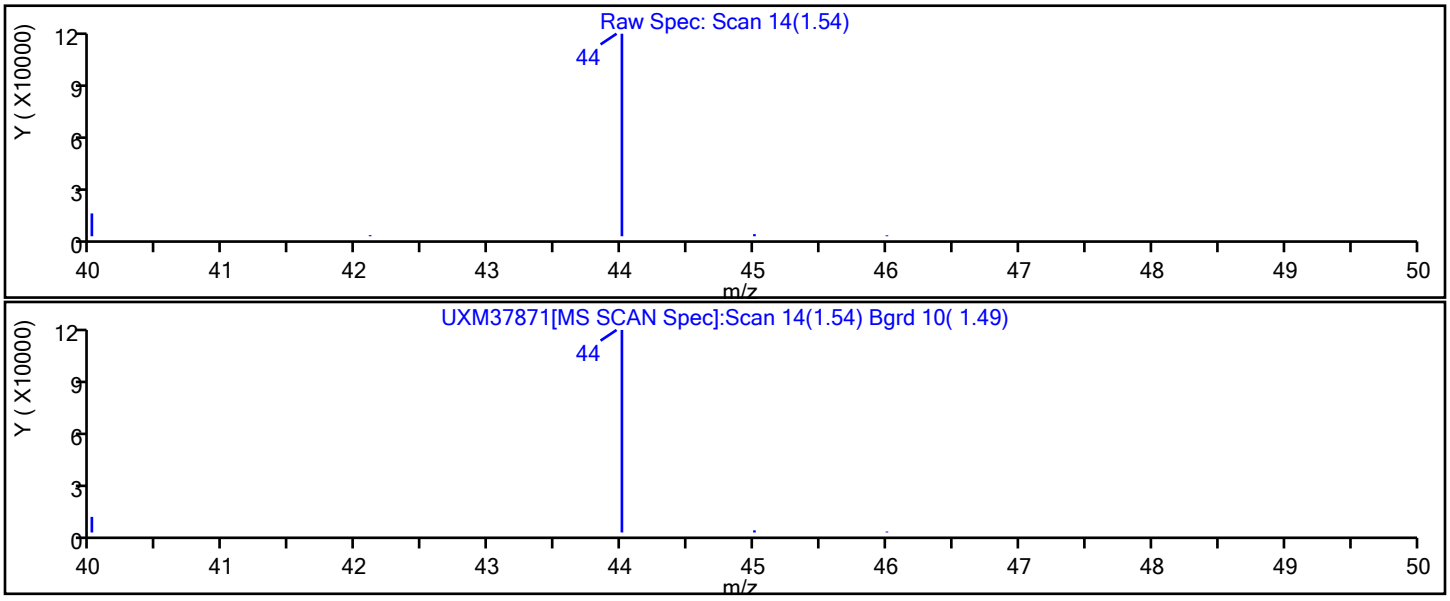
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-489711/5

Matrix: Water Lab File ID: UXM37731.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 09:42

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	43.5		10	5.4
71-43-2	Benzene	18.6		1.0	0.13
108-86-1	Bromobenzene	19.5		1.0	0.12
74-97-5	Bromochloromethane	19.8		1.0	0.14
75-27-4	Bromodichloromethane	17.0		1.0	0.17
75-25-2	Bromoform	15.3		1.0	0.76
74-83-9	Bromomethane	9.76		1.0	0.42
78-93-3	2-Butanone	38.1		10	1.2
75-15-0	Carbon disulfide	18.7		1.0	0.28
56-23-5	Carbon tetrachloride	17.6		1.0	0.26
108-90-7	Chlorobenzene	19.2		1.0	0.14
75-00-3	Chloroethane	18.4		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	6.04	J	10	0.26
67-66-3	Chloroform	18.8		1.0	0.13
74-87-3	Chloromethane	14.2		1.0	0.20
95-49-8	2-Chlorotoluene	20.1		1.0	0.15
106-43-4	4-Chlorotoluene	20.5		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	20.4		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	16.8		1.0	0.61
124-48-1	Dibromochloromethane	15.8		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	16.6		2.0	0.91
106-93-4	1,2-Dibromoethane	17.8		1.0	0.12
74-95-3	Dibromomethane	18.1		1.0	0.090
95-50-1	1,2-Dichlorobenzene	19.0		1.0	0.15
541-73-1	1,3-Dichlorobenzene	19.7		1.0	0.15
106-46-7	1,4-Dichlorobenzene	19.8		1.0	0.16
75-71-8	Dichlorodifluoromethane	15.6		1.0	0.35
75-34-3	1,1-Dichloroethane	18.1		1.0	0.17
107-06-2	1,2-Dichloroethane	17.0		1.0	0.21
75-35-4	1,1-Dichloroethene	20.6		1.0	0.19
78-87-5	1,2-Dichloropropane	18.5		1.0	0.15
142-28-9	1,3-Dichloropropane	17.1		1.0	0.21
594-20-7	2,2-Dichloropropane	13.5		1.0	0.31
563-58-6	1,1-Dichloropropene	17.9		1.0	0.14
100-41-4	Ethylbenzene	19.4		1.0	0.11
87-68-3	Hexachlorobutadiene	21.4		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-489711/5

Matrix: Water Lab File ID: UXM37731.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 09:42

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	32.1		10	0.54
98-82-8	Isopropylbenzene	19.8		1.0	0.090
75-09-2	Methylene Chloride	19.8		5.0	2.6
108-10-1	4-Methyl-2-pentanone	31.2		10	0.42
1634-04-4	Methyl tert-butyl ether	15.0		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	19.9		2.0	0.080
91-20-3	Naphthalene	19.2		1.0	0.32
104-51-8	n-Butylbenzene	19.7		1.0	0.14
103-65-1	n-Propylbenzene	20.2		1.0	0.15
95-47-6	o-Xylene	20.1		1.0	0.090
99-87-6	p-Isopropyltoluene	19.9		1.0	0.13
135-98-8	sec-Butylbenzene	19.9		1.0	0.13
100-42-5	Styrene	21.4		1.0	0.10
75-65-0	tert-Butyl alcohol	82.6		40	1.7
98-06-6	tert-Butylbenzene	19.8		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	17.4		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	17.3		1.0	0.13
127-18-4	Tetrachloroethene	19.1		1.0	0.15
108-88-3	Toluene	18.9		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	19.8		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	14.9		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	19.4		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	19.6		1.0	0.26
71-55-6	1,1,1-Trichloroethane	17.8		1.0	0.24
79-01-6	Trichloroethene	18.6		1.0	0.10
75-69-4	Trichlorofluoromethane	18.2		1.0	0.45
96-18-4	1,2,3-Trichloropropane	16.8		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	19.6		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	19.7		1.0	0.070
108-05-4	Vinyl acetate	17.2		2.0	0.19
75-01-4	Vinyl chloride	15.0		1.0	0.20
1330-20-7	Xylenes, Total	40.0		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-489711/5

Matrix: Water Lab File ID: UXM37731.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 09:42

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	98		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		75-130
2037-26-5	Toluene-d8 (Surr)	96		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37731.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jun-2021 09:42:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Jun-2021 10:33:45 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1685

First Level Reviewer: bosworthh Date: 09-Jun-2021 10:33:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.845	5.846	-0.001	99	876507	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	703162	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	383935	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.265	0.011	94	237462	22.7	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	243672	22.7	19.4	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	936194	22.7	21.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	89	389528	22.7	23.6	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	246566	20.0	15.6	
10 Chloromethane	50	1.897	1.897	0.000	99	231183	20.0	14.2	
11 Vinyl chloride	62	2.015	2.015	0.000	98	241598	20.0	15.0	
12 Butadiene	54	2.051	2.051	0.000	95	200729	20.0	12.8	
13 Bromomethane	94	2.359	2.359	0.000	89	90703	20.0	9.76	
14 Chloroethane	64	2.478	2.478	0.000	99	166679	20.0	18.4	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	375474	20.0	18.2	
16 Trichlorofluoromethane	101	2.739	2.727	0.012	98	319967	20.0	18.2	
17 Ethyl ether	59	3.011	3.011	0.000	87	145704	20.0	18.6	
18 Acrolein	56	3.154	3.154	0.000	99	65940	100.0	137.5	
19 1,1-Dichloroethene	96	3.248	3.237	0.011	97	200438	20.0	20.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.248	3.249	-0.001	92	148924	20.0	19.6	
21 Acetone	58	3.284	3.284	0.000	100	35782	40.0	43.5	
23 Iodomethane	142	3.391	3.391	0.000	96	152489	20.0	11.8	
24 Carbon disulfide	76	3.450	3.450	0.000	98	596630	20.0	18.7	
27 Methyl acetate	43	3.580	3.569	0.011	96	217722	40.0	30.0	
26 3-Chloro-1-propene	41	3.592	3.592	0.000	92	227774	20.0	13.4	
28 Methylene Chloride	84	3.711	3.711	0.000	86	228739	20.0	19.8	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	79468	200.0	82.6	
30 Acrylonitrile	53	3.924	3.925	-0.001	100	709496	200.0	178.2	
31 Methyl tert-butyl ether	73	3.948	3.936	0.012	93	405870	20.0	15.0	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	97	231770	20.0	19.8	
33 Hexane	57	4.197	4.197	0.000	88	271729	20.0	17.7	
35 Vinyl acetate	43	4.339	4.340	-0.001	96	224863	20.0	17.2	
34 1,1-Dichloroethane	63	4.351	4.351	0.000	96	372467	20.0	18.1	

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	4.826	4.826	0.000	98	39376	40.0	38.1	
41 2,2-Dichloropropane	77	4.849	4.849	0.000	90	243571	20.0	13.5	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	79	263941	20.0	20.4	
45 Chlorobromomethane	128	5.051	5.051	0.000	96	113257	20.0	19.8	
46 Tetrahydrofuran	42	5.063	5.063	0.000	87	96326	40.0	32.7	
47 Chloroform	83	5.134	5.134	0.000	92	377294	20.0	18.8	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	98	306715	20.0	17.8	
49 Cyclohexane	56	5.347	5.348	-0.001	85	351641	20.0	18.4	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	97	265946	20.0	17.9	
51 Carbon tetrachloride	117	5.419	5.419	0.000	89	250125	20.0	17.6	
52 Isobutyl alcohol	41	5.478	5.478	0.000	95	120855	500.0	396.9	
54 Benzene	78	5.596	5.597	-0.001	96	821832	20.0	18.6	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	97	250001	20.0	17.0	
56 n-Heptane	57	5.822	5.822	0.000	87	185988	20.0	19.4	
58 Trichloroethene	130	6.154	6.154	0.000	96	214067	20.0	18.6	
60 Methylcyclohexane	83	6.355	6.356	-0.001	88	386841	20.0	19.9	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	96	193028	20.0	18.5	
64 1,4-Dioxane	88	6.427	6.427	0.000	89	40994	400.0	325.2	
63 Dibromomethane	93	6.462	6.450	0.012	94	115852	20.0	18.1	
65 Dichlorobromomethane	83	6.604	6.605	-0.001	99	252971	20.0	17.0	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	91	36183	20.0	6.04	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	98	289293	20.0	16.8	
69 4-Methyl-2-pentanone (MIBK)	43	7.102	7.103	-0.001	93	245580	40.0	31.2	
70 Toluene	91	7.280	7.280	0.000	99	949396	20.0	18.9	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	90	235229	20.0	14.9	
72 Ethyl methacrylate	69	7.518	7.518	0.000	85	213622	20.0	17.1	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	89	144058	20.0	16.8	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	178489	20.0	19.1	
74 1,3-Dichloropropane	76	7.814	7.814	0.000	85	267886	20.0	17.1	
76 2-Hexanone	43	7.850	7.850	0.000	91	186297	40.0	32.1	
78 Chlorodibromomethane	129	8.016	8.016	0.000	90	156573	20.0	15.8	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	152768	20.0	17.8	
82 Chlorobenzene	112	8.597	8.597	0.000	97	617873	20.0	19.2	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	95	173446	20.0	17.4	
84 Ethylbenzene	106	8.680	8.680	0.000	98	353565	20.0	19.4	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	457321	20.0	19.9	
86 o-Xylene	106	9.166	9.166	0.000	96	436334	20.0	20.1	
87 Styrene	104	9.178	9.190	-0.012	95	711380	20.0	21.4	
88 Bromoform	173	9.367	9.368	-0.001	97	92386	20.0	15.3	
89 Isopropylbenzene	105	9.510	9.510	0.000	96	1124479	20.0	19.8	
92 1,1,2,2-Tetrachloroethane	83	9.818	9.818	0.000	94	183470	20.0	17.3	
93 Bromobenzene	156	9.842	9.842	0.000	93	248724	20.0	19.5	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	81	49358	20.0	13.7	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	79	58291	20.0	16.8	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	329608	20.0	20.2	
97 2-Chlorotoluene	126	10.020	10.020	0.000	97	266253	20.0	20.1	
99 1,3,5-Trimethylbenzene	105	10.103	10.103	0.000	94	975459	20.0	20.0	
100 4-Chlorotoluene	126	10.138	10.138	0.000	96	282303	20.0	20.5	
102 tert-Butylbenzene	119	10.411	10.411	0.000	92	831930	20.0	19.8	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	96	970870	20.0	19.7	
105 sec-Butylbenzene	105	10.636	10.636	0.000	93	1252894	20.0	19.9	
106 1,3-Dichlorobenzene	146	10.755	10.755	0.000	97	501343	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
107 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1068911	20.0	19.9	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	507145	20.0	19.8	
111 n-Butylbenzene	91	11.182	11.194	-0.012	97	954597	20.0	19.7	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	449248	20.0	19.0	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	89	41631	20.0	16.6	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	269096	20.0	19.6	
116 Hexachlorobutadiene	225	12.972	12.973	-0.001	96	131898	20.0	21.4	
117 Naphthalene	128	13.115	13.115	0.000	96	667240	20.0	19.2	
118 1,2,3-Trichlorobenzene	180	13.364	13.364	0.000	95	225808	20.0	19.4	
S 134 Trihalomethanes, Total	1				0		80.0	66.8	
S 158 Total BTEX	1				0		100.0	96.8	
S 133 Xylenes, Total	106				0		40.0	40.0	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00410	Amount Added: 16.00	Units: uL		
vmfasaw_00377	Amount Added: 16.00	Units: uL		
vmfaspw_00401	Amount Added: 16.00	Units: uL		
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00195	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00087	Amount Added: 2.27	Units: uL	Run Reagent	
vm40ml_vials_00016	Amount Added: 0.00	Units:	Run Reagent	

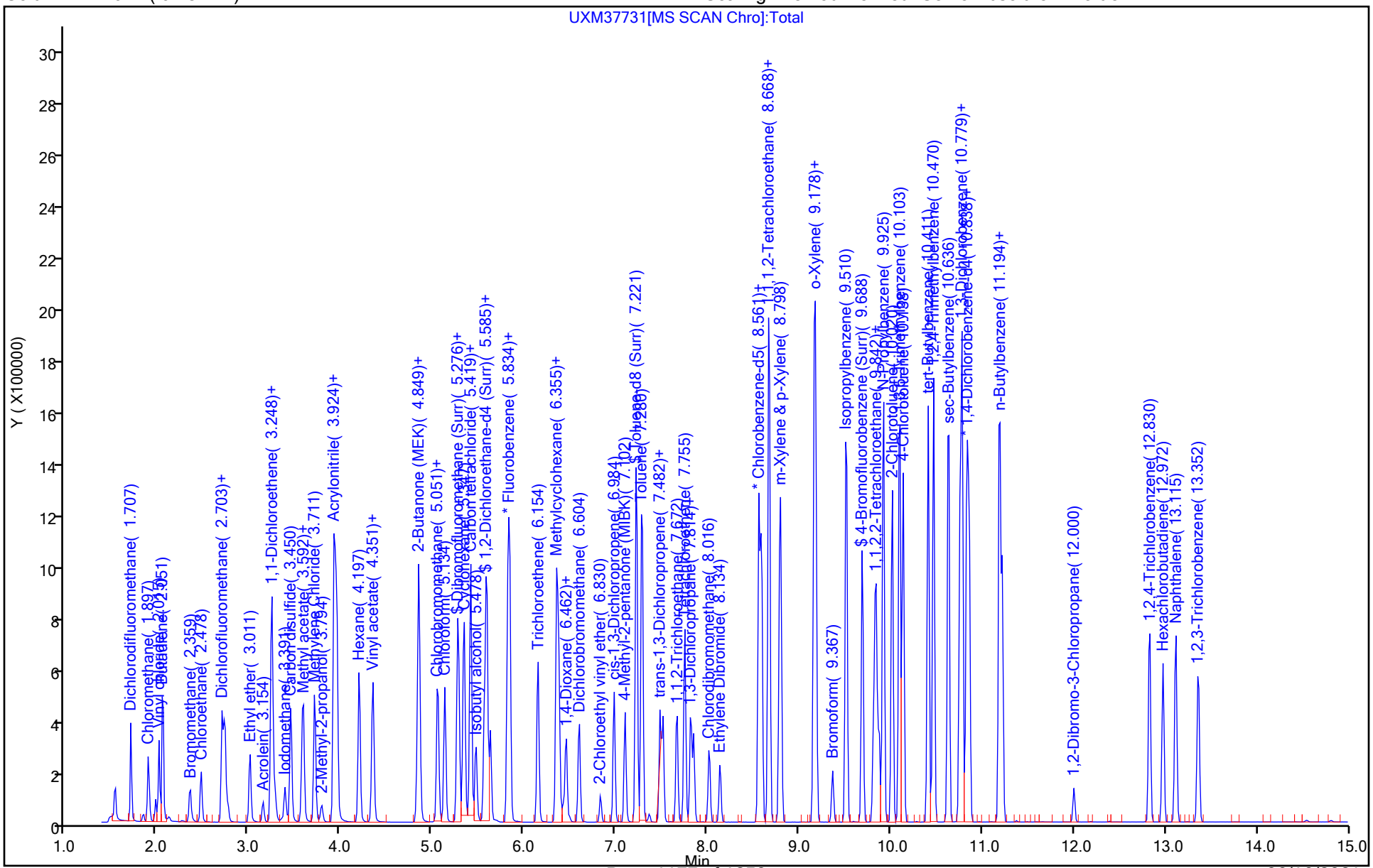
Report Date: 09-Jun-2021 10:33:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37731.D

Injection Date:	09-Jun-2021 09:42:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	LCS			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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37731.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jun-2021 09:42:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110052-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Jun-2021 10:33:45 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1685

First Level Reviewer: bosworthh Date: 09-Jun-2021 10:33:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.3	98.42
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.4	85.55
$ 6 Toluene-d8 (Surr)	22.7	21.8	96.29
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.6	104.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-490350/6

Matrix: Water Lab File ID: UX995981.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 10:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	36.1		10	5.4
71-43-2	Benzene	19.1		1.0	0.13
108-86-1	Bromobenzene	19.2		1.0	0.12
74-97-5	Bromochloromethane	18.2		1.0	0.14
75-27-4	Bromodichloromethane	19.1		1.0	0.17
75-25-2	Bromoform	19.4		1.0	0.76
74-83-9	Bromomethane	20.0		1.0	0.42
78-93-3	2-Butanone	37.8		10	1.2
75-15-0	Carbon disulfide	19.6		1.0	0.28
56-23-5	Carbon tetrachloride	19.4		1.0	0.26
108-90-7	Chlorobenzene	19.3		1.0	0.14
75-00-3	Chloroethane	21.3		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	19.0		10	0.26
67-66-3	Chloroform	19.2		1.0	0.13
74-87-3	Chloromethane	20.5		1.0	0.20
95-49-8	2-Chlorotoluene	19.4		1.0	0.15
106-43-4	4-Chlorotoluene	19.5		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	19.9		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	19.2		1.0	0.61
124-48-1	Dibromochloromethane	19.4		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	19.3		2.0	0.91
106-93-4	1,2-Dibromoethane	19.2		1.0	0.12
74-95-3	Dibromomethane	18.6		1.0	0.090
95-50-1	1,2-Dichlorobenzene	18.6		1.0	0.15
541-73-1	1,3-Dichlorobenzene	19.6		1.0	0.15
106-46-7	1,4-Dichlorobenzene	19.3		1.0	0.16
75-71-8	Dichlorodifluoromethane	21.3		1.0	0.35
75-34-3	1,1-Dichloroethane	18.9		1.0	0.17
107-06-2	1,2-Dichloroethane	18.8		1.0	0.21
75-35-4	1,1-Dichloroethene	20.6		1.0	0.19
78-87-5	1,2-Dichloropropane	19.3		1.0	0.15
142-28-9	1,3-Dichloropropane	18.6		1.0	0.21
594-20-7	2,2-Dichloropropane	19.7		1.0	0.31
563-58-6	1,1-Dichloropropene	19.3		1.0	0.14
100-41-4	Ethylbenzene	19.8		1.0	0.11
87-68-3	Hexachlorobutadiene	21.0		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-490350/6

Matrix: Water Lab File ID: UX995981.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 10:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	34.7		10	0.54
98-82-8	Isopropylbenzene	19.7		1.0	0.090
75-09-2	Methylene Chloride	18.8		5.0	2.6
108-10-1	4-Methyl-2-pentanone	36.7		10	0.42
1634-04-4	Methyl tert-butyl ether	18.9		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	19.6		2.0	0.080
91-20-3	Naphthalene	18.6		1.0	0.32
104-51-8	n-Butylbenzene	19.8		1.0	0.14
103-65-1	n-Propylbenzene	19.5		1.0	0.15
95-47-6	o-Xylene	19.6		1.0	0.090
99-87-6	p-Isopropyltoluene	20.0		1.0	0.13
135-98-8	sec-Butylbenzene	19.9		1.0	0.13
100-42-5	Styrene	19.9		1.0	0.10
75-65-0	tert-Butyl alcohol	180		40	1.7
98-06-6	tert-Butylbenzene	20.7		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	19.0		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	18.4		1.0	0.13
127-18-4	Tetrachloroethene	19.5		1.0	0.15
108-88-3	Toluene	19.4		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	19.9		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	18.1		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	19.2		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	19.3		1.0	0.26
71-55-6	1,1,1-Trichloroethane	19.5		1.0	0.24
79-01-6	Trichloroethene	19.4		1.0	0.10
75-69-4	Trichlorofluoromethane	22.4		1.0	0.45
96-18-4	1,2,3-Trichloropropane	18.8		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	20.3		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	19.9		1.0	0.070
108-05-4	Vinyl acetate	17.0		2.0	0.19
75-01-4	Vinyl chloride	22.1		1.0	0.20
1330-20-7	Xylenes, Total	39.2		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-490350/6

Matrix: Water Lab File ID: UX995981.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 10:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995981.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 13-Jun-2021 10:45:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-006
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jun-2021 11:06:55 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: bosworthh Date: 13-Jun-2021 11:06:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	952410	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	84	790833	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.813	-0.002	92	441723	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.285	5.287	-0.002	93	487879	20.0	20.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.581	5.583	-0.002	100	502316	20.0	18.6	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	92	1970243	20.0	20.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.677	-0.002	89	774281	20.0	20.8	
9 Dichlorodifluoromethane	85	1.759	1.763	-0.004	100	593282	20.0	21.3	
10 Chloromethane	50	1.948	1.952	-0.004	99	501768	20.0	20.5	
11 Vinyl chloride	62	2.078	2.082	-0.004	99	535302	20.0	22.1	
12 Butadiene	54	2.114	2.118	-0.004	90	476195	20.0	21.2	
13 Bromomethane	94	2.433	2.437	-0.004	91	392737	20.0	20.0	
15 Chloroethane	64	2.540	2.544	-0.004	99	384733	20.0	21.3	
16 Dichlorofluoromethane	67	2.741	2.745	-0.004	98	881843	20.0	21.4	
17 Trichlorofluoromethane	101	2.812	2.816	-0.004	99	927929	20.0	22.4	
18 Ethyl ether	59	3.096	3.100	-0.004	87	340031	20.0	20.0	
21 Acrolein	56	3.214	3.218	-0.004	99	94877	100.0	160.3	
24 1,1-Dichloroethene	61	3.321	3.325	-0.003	98	659975	20.0	20.6	
22 112TCTFE	101	3.321	3.325	-0.003	92	493624	20.0	20.3	
23 Acetone	58	3.356	3.360	-0.004	100	55482	40.0	36.1	
25 Iodomethane	142	3.463	3.466	-0.003	99	613674	20.0	19.5	
26 Carbon disulfide	76	3.534	3.537	-0.003	99	1243999	20.0	19.6	
28 3-Chloro-1-propene	41	3.652	3.656	-0.004	89	601385	20.0	18.7	
29 Methyl acetate	43	3.664	3.668	-0.004	96	405471	40.0	38.3	
30 Methylene Chloride	49	3.759	3.762	-0.003	87	511080	20.0	18.8	
31 2-Methyl-2-propanol	59	3.842	3.845	-0.003	100	359657	200.0	180.4	
32 Acrylonitrile	53	3.972	3.963	0.009	99	1099218	200.0	182.0	
33 Methyl tert-butyl ether	73	4.007	4.011	-0.004	94	1307922	20.0	18.9	
34 trans-1,2-Dichloroethene	61	4.019	4.023	-0.004	95	617987	20.0	19.9	
35 Hexane	57	4.268	4.271	-0.003	90	655973	20.0	19.9	
36 1,1-Dichloroethane	63	4.386	4.389	-0.003	96	802256	20.0	18.9	
37 Vinyl acetate	43	4.421	4.413	0.008	97	626472	20.0	17.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	72	4.883	4.886	-0.003	99	83231	40.0	37.8	
43 cis-1,2-Dichloroethene	96	4.895	4.886	0.009	81	554763	20.0	19.9	
42 2,2-Dichloropropane	77	4.895	4.898	-0.003	89	861862	20.0	19.7	
47 Chlorobromomethane	49	5.084	5.088	-0.004	84	309695	20.0	18.2	
48 Tetrahydrofuran	42	5.143	5.135	0.008	82	176516	40.0	35.5	
49 Chloroform	83	5.155	5.147	0.008	94	860333	20.0	19.2	
50 1,1,1-Trichloroethane	97	5.332	5.336	-0.004	97	867265	20.0	19.5	
51 Cyclohexane	84	5.392	5.395	-0.003	84	869924	20.0	20.0	
52 1,1-Dichloropropene	75	5.474	5.466	0.008	97	666751	20.0	19.3	
53 Carbon tetrachloride	117	5.474	5.478	-0.004	98	764099	20.0	19.4	
54 Isobutyl alcohol	41	5.510	5.514	-0.004	93	226883	500.0	430.4	
56 1,2-Dichloroethane	62	5.652	5.644	0.008	57	585290	20.0	18.8	
55 Benzene	78	5.652	5.644	0.008	95	1896949	20.0	19.1	
58 n-Heptane	71	5.865	5.857	0.008	84	411419	20.0	18.9	
60 Trichloroethene	130	6.196	6.200	-0.004	96	562796	20.0	19.4	
62 Methylcyclohexane	83	6.374	6.377	-0.003	87	899262	20.0	19.8	
63 1,2-Dichloropropane	63	6.386	6.377	0.009	93	438962	20.0	19.3	
66 Dibromomethane	174	6.492	6.484	0.008	94	273598	20.0	18.6	
65 1,4-Dioxane	88	6.492	6.496	-0.004	88	90083	400.0	384.8	
67 Dichlorobromomethane	83	6.610	6.614	-0.004	99	654959	20.0	19.1	
69 2-Chloroethyl vinyl ether	63	6.847	6.851	-0.004	94	215321	20.0	19.0	
71 cis-1,3-Dichloropropene	75	7.001	7.005	-0.003	96	678018	20.0	19.2	
72 4-Methyl-2-pentanone (MIBK)	43	7.119	7.123	-0.004	94	604880	40.0	36.7	
73 Toluene	91	7.320	7.312	0.008	99	2175084	20.0	19.4	
74 trans-1,3-Dichloropropene	75	7.486	7.478	0.008	91	564740	20.0	18.1	
75 Ethyl methacrylate	69	7.545	7.549	-0.004	86	493013	20.0	17.9	
76 1,1,2-Trichloroethane	97	7.652	7.655	-0.003	92	397107	20.0	18.7	
77 1,3-Dichloropropane	76	7.817	7.809	0.008	88	668981	20.0	18.6	
78 Tetrachloroethene	166	7.817	7.821	-0.004	98	591499	20.0	19.5	
80 2-Hexanone	43	7.865	7.868	-0.003	93	406776	40.0	34.7	
82 Chlorodibromomethane	129	8.030	8.022	0.008	89	498434	20.0	19.4	
83 Ethylene Dibromide	107	8.149	8.140	0.009	99	373468	20.0	19.2	
85 Chlorobenzene	112	8.598	8.602	-0.004	96	1442018	20.0	19.3	
86 1,1,1,2-Tetrachloroethane	131	8.669	8.661	0.008	95	550306	20.0	19.0	
87 Ethylbenzene	106	8.693	8.697	-0.004	97	868113	20.0	19.8	
88 m-Xylene & p-Xylene	106	8.800	8.803	-0.003	100	1064499	20.0	19.6	
89 o-Xylene	106	9.178	9.182	-0.004	95	1038745	20.0	19.6	
90 Styrene	104	9.190	9.194	-0.004	92	1527434	20.0	19.9	
91 Bromoform	173	9.379	9.371	0.008	97	287933	20.0	19.4	
92 Isopropylbenzene	105	9.533	9.525	0.008	95	2670556	20.0	19.7	
94 1,1,2,2-Tetrachloroethane	83	9.793	9.797	-0.004	96	440108	20.0	18.4	
95 Bromobenzene	156	9.841	9.844	-0.003	94	616284	20.0	19.2	
97 1,2,3-Trichloropropane	110	9.853	9.844	0.009	81	172218	20.0	18.8	
96 trans-1,4-Dichloro-2-butene	53	9.853	9.844	0.009	70	118078	20.0	17.8	
98 N-Propylbenzene	120	9.924	9.927	-0.003	98	766968	20.0	19.5	
100 2-Chlorotoluene	126	10.018	10.022	-0.004	97	636105	20.0	19.4	
101 1,3,5-Trimethylbenzene	105	10.089	10.093	-0.004	94	2154557	20.0	19.6	
102 4-Chlorotoluene	126	10.125	10.128	-0.003	97	658147	20.0	19.5	
104 tert-Butylbenzene	119	10.421	10.424	-0.003	91	2205550	20.0	20.7	
106 1,2,4-Trimethylbenzene	105	10.468	10.460	0.008	96	2191431	20.0	19.9	
107 sec-Butylbenzene	134	10.634	10.637	-0.003	94	620644	20.0	19.9	
108 1,3-Dichlorobenzene	146	10.752	10.755	-0.003	98	1210876	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 4-Isopropyltoluene	119	10.776	10.779	-0.003	97	2360426	20.0	20.0	
110 1,4-Dichlorobenzene	146	10.835	10.838	-0.003	95	1222222	20.0	19.3	
113 n-Butylbenzene	91	11.178	11.181	-0.003	96	1817313	20.0	19.8	
114 1,2-Dichlorobenzene	146	11.213	11.217	-0.004	98	1124305	20.0	18.6	
115 1,2-Dibromo-3-Chloropropane	157	11.983	11.974	0.009	88	99729	20.0	19.3	
117 1,2,4-Trichlorobenzene	180	12.823	12.826	-0.003	94	638788	20.0	19.3	
118 Hexachlorobutadiene	225	13.000	13.004	-0.004	98	236151	20.0	21.0	
119 Naphthalene	128	13.083	13.087	-0.004	97	1390858	20.0	18.6	
120 1,2,3-Trichlorobenzene	180	13.355	13.359	-0.004	95	533578	20.0	19.2	
S 158 Total BTEX	1				0		100.0	97.4	
S 130 Trihalomethanes, Total	83				0		80.0	77.1	
S 131 Xylenes, Total	106				0		40.0	39.1	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00411	Amount Added:	16.00	Units: uL
vmfaspw_00402	Amount Added:	16.00	Units: uL
vmfasaw_00377	Amount Added:	16.00	Units: uL
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL

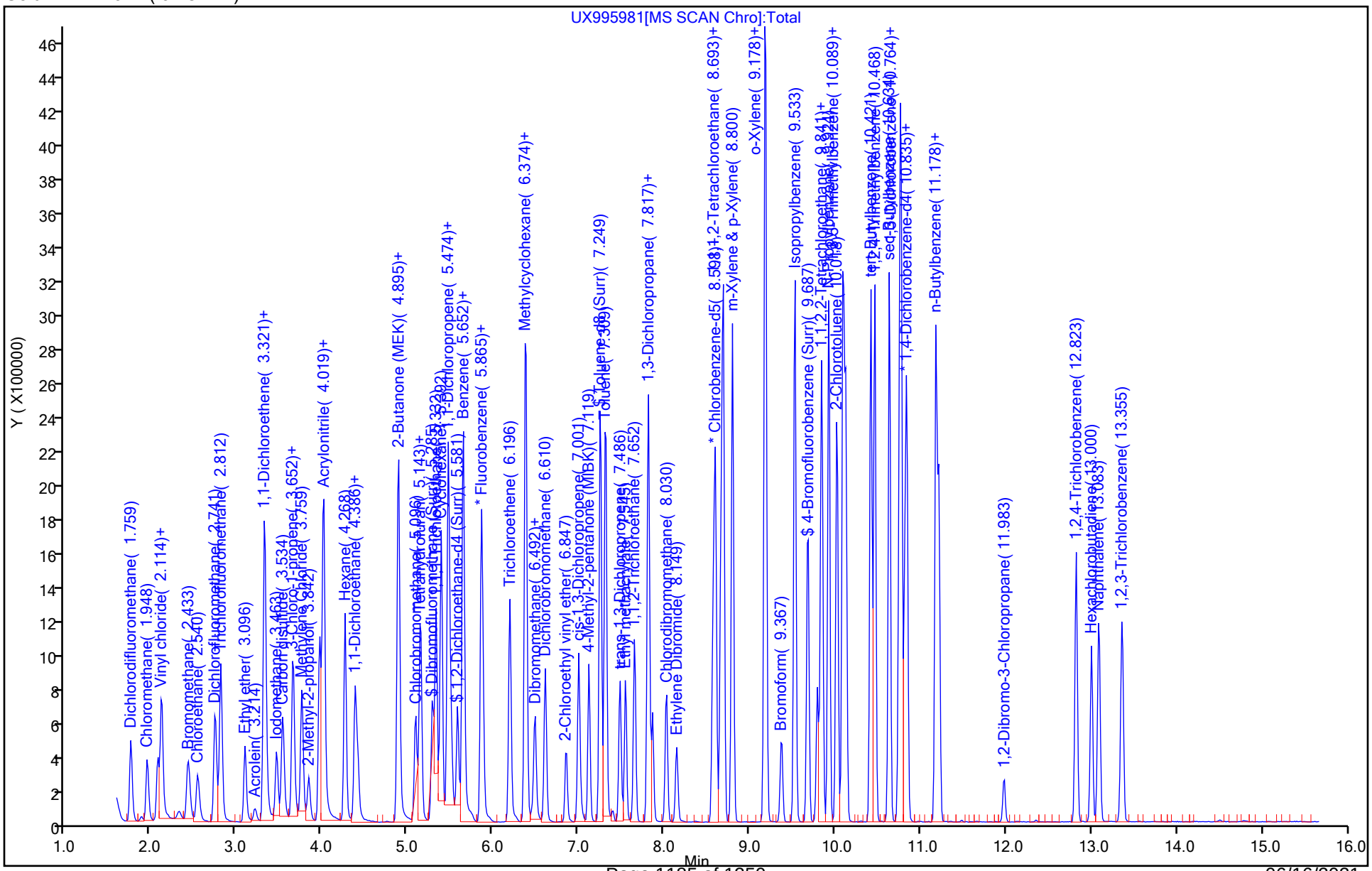
Report Date: 13-Jun-2021 11:06:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995981.D

Injection Date:	13-Jun-2021 10:45:30	Instrument ID:	A3UX9	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_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995981.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 13-Jun-2021 10:45:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-006
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jun-2021 11:06:55 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: bosworthh Date: 13-Jun-2021 11:06:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.5	102.49
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.6	92.76
$ 6 Toluene-d8 (Surr)	20.0	20.7	103.64
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.8	103.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-490456/5

Matrix: Water Lab File ID: UXM37868.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 11:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	38.7		10	5.4
71-43-2	Benzene	19.5		1.0	0.13
108-86-1	Bromobenzene	19.8		1.0	0.12
74-97-5	Bromochloromethane	18.9		1.0	0.14
75-27-4	Bromodichloromethane	17.2		1.0	0.17
75-25-2	Bromoform	16.6		1.0	0.76
74-83-9	Bromomethane	17.9		1.0	0.42
78-93-3	2-Butanone	39.0		10	1.2
75-15-0	Carbon disulfide	20.6		1.0	0.28
56-23-5	Carbon tetrachloride	18.0		1.0	0.26
108-90-7	Chlorobenzene	19.3		1.0	0.14
75-00-3	Chloroethane	20.3		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	16.7		10	0.26
67-66-3	Chloroform	18.1		1.0	0.13
74-87-3	Chloromethane	17.1		1.0	0.20
95-49-8	2-Chlorotoluene	20.3		1.0	0.15
106-43-4	4-Chlorotoluene	20.5		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	19.5		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	18.4		1.0	0.61
124-48-1	Dibromochloromethane	17.4		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		2.0	0.91
106-93-4	1,2-Dibromoethane	19.6		1.0	0.12
74-95-3	Dibromomethane	17.7		1.0	0.090
95-50-1	1,2-Dichlorobenzene	19.3		1.0	0.15
541-73-1	1,3-Dichlorobenzene	19.9		1.0	0.15
106-46-7	1,4-Dichlorobenzene	20.0		1.0	0.16
75-71-8	Dichlorodifluoromethane	20.4		1.0	0.35
75-34-3	1,1-Dichloroethane	18.1		1.0	0.17
107-06-2	1,2-Dichloroethane	16.6		1.0	0.21
75-35-4	1,1-Dichloroethene	21.5		1.0	0.19
78-87-5	1,2-Dichloropropane	19.3		1.0	0.15
142-28-9	1,3-Dichloropropane	18.9		1.0	0.21
594-20-7	2,2-Dichloropropane	17.3		1.0	0.31
563-58-6	1,1-Dichloropropene	19.5		1.0	0.14
100-41-4	Ethylbenzene	19.0		1.0	0.11
87-68-3	Hexachlorobutadiene	21.6		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-490456/5

Matrix: Water Lab File ID: UXM37868.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 11:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	29.6		10	0.54
98-82-8	Isopropylbenzene	19.0		1.0	0.090
75-09-2	Methylene Chloride	19.7		5.0	2.6
108-10-1	4-Methyl-2-pentanone	29.2		10	0.42
1634-04-4	Methyl tert-butyl ether	17.9		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	18.9		2.0	0.080
91-20-3	Naphthalene	20.0		1.0	0.32
104-51-8	n-Butylbenzene	20.3		1.0	0.14
103-65-1	n-Propylbenzene	20.3		1.0	0.15
95-47-6	o-Xylene	19.0		1.0	0.090
99-87-6	p-Isopropyltoluene	20.3		1.0	0.13
135-98-8	sec-Butylbenzene	20.1		1.0	0.13
100-42-5	Styrene	19.2		1.0	0.10
75-65-0	tert-Butyl alcohol	165		40	1.7
98-06-6	tert-Butylbenzene	19.7		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	20.1		1.0	0.13
127-18-4	Tetrachloroethene	19.9		1.0	0.15
108-88-3	Toluene	19.2		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	20.1		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	16.8		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	20.4		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	20.1		1.0	0.26
71-55-6	1,1,1-Trichloroethane	18.4		1.0	0.24
79-01-6	Trichloroethene	19.5		1.0	0.10
75-69-4	Trichlorofluoromethane	21.1		1.0	0.45
96-18-4	1,2,3-Trichloropropane	19.9		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	22.1		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	19.6		1.0	0.070
108-05-4	Vinyl acetate	19.5		2.0	0.19
75-01-4	Vinyl chloride	17.9		1.0	0.20
1330-20-7	Xylenes, Total	37.9		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-490456/5

Matrix: Water Lab File ID: UXM37868.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 11:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	92		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		75-130
2037-26-5	Toluene-d8 (Surr)	96		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37868.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Jun-2021 11:16:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 11:37:27 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 11:37:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	903230	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	692125	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	358328	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	228497	22.7	20.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.573	5.561	0.012	98	247319	22.7	19.1	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	914487	22.7	21.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	88	370743	22.7	22.8	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	331123	20.0	20.4	
10 Chloromethane	50	1.897	1.897	0.000	99	287142	20.0	17.1	
11 Vinyl chloride	62	2.015	2.015	0.000	97	296960	20.0	17.9	
12 Butadiene	54	2.051	2.051	0.000	95	249068	20.0	15.4	
13 Bromomethane	94	2.359	2.359	0.000	88	167995	20.0	17.9	
14 Chloroethane	64	2.478	2.478	0.000	99	189401	20.0	20.3	
15 Dichlorofluoromethane	67	2.703	2.703	0.000	97	429571	20.0	20.3	
16 Trichlorofluoromethane	101	2.739	2.727	0.012	99	382137	20.0	21.1	
17 Ethyl ether	59	3.011	3.011	0.000	88	158170	20.0	19.6	
18 Acrolein	56	3.154	3.154	0.000	100	62357	100.0	126.2	
19 1,1-Dichloroethene	96	3.249	3.248	0.001	97	215776	20.0	21.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.248	0.001	91	172564	20.0	22.1	
21 Acetone	58	3.284	3.284	0.000	99	33050	40.0	38.7	
23 Iodomethane	142	3.391	3.391	0.000	96	294863	20.0	22.1	
24 Carbon disulfide	76	3.450	3.450	0.000	98	677149	20.0	20.6	
27 Methyl acetate	43	3.581	3.569	0.012	96	245946	40.0	32.9	
26 3-Chloro-1-propene	41	3.592	3.592	0.000	92	284194	20.0	16.2	
28 Methylene Chloride	84	3.711	3.711	0.000	86	233908	20.0	19.7	
29 2-Methyl-2-propanol	59	3.794	3.794	0.000	98	163619	200.0	165.1	
30 Acrylonitrile	53	3.924	3.924	0.000	99	718152	200.0	175.1	
31 Methyl tert-butyl ether	73	3.948	3.948	0.000	93	499299	20.0	17.9	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	98	241421	20.0	20.1	
33 Hexane	57	4.197	4.197	0.000	88	333702	20.0	21.0	
35 Vinyl acetate	43	4.340	4.339	0.001	97	263683	20.0	19.5	
34 1,1-Dichloroethane	63	4.351	4.351	0.000	96	384176	20.0	18.1	

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	4.838	4.826	0.012	98	41522	40.0	39.0	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	80	260938	20.0	19.5	
41 2,2-Dichloropropane	77	4.861	4.849	0.012	87	322061	20.0	17.3	
45 Chlorobromomethane	128	5.051	5.051	0.000	96	111441	20.0	18.9	
46 Tetrahydrofuran	42	5.063	5.063	0.000	86	97401	40.0	32.1	
47 Chloroform	83	5.134	5.134	0.000	92	373834	20.0	18.1	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	98	326637	20.0	18.4	
49 Cyclohexane	56	5.347	5.347	0.000	85	404729	20.0	20.6	
51 Carbon tetrachloride	117	5.419	5.419	0.000	83	263120	20.0	18.0	
50 1,1-Dichloropropene	75	5.419	5.419	0.000	98	299041	20.0	19.5	
52 Isobutyl alcohol	41	5.478	5.478	0.000	96	116055	500.0	369.9	
54 Benzene	78	5.597	5.596	0.001	96	889088	20.0	19.5	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	97	251787	20.0	16.6	
56 n-Heptane	57	5.822	5.822	0.000	91	197345	20.0	20.1	
58 Trichloroethene	130	6.154	6.154	0.000	97	231648	20.0	19.5	
60 Methylcyclohexane	83	6.355	6.355	0.000	87	417418	20.0	20.8	
61 1,2-Dichloropropane	63	6.379	6.379	0.000	96	207952	20.0	19.3	
64 1,4-Dioxane	88	6.427	6.427	0.000	89	42340	400.0	325.9	
63 Dibromomethane	93	6.462	6.462	0.000	95	116692	20.0	17.7	
65 Dichlorobromomethane	83	6.604	6.604	0.000	99	263647	20.0	17.2	
67 2-Chloroethyl vinyl ether	63	6.830	6.830	0.000	92	102808	20.0	16.7	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	98	325514	20.0	18.4	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.102	0.001	93	237235	40.0	29.2	
70 Toluene	91	7.292	7.292	0.000	99	949854	20.0	19.2	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	90	260985	20.0	16.8	
72 Ethyl methacrylate	69	7.518	7.518	0.000	85	193118	20.0	15.7	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	90	157460	20.0	18.6	
75 Tetrachloroethene	164	7.755	7.755	0.000	98	182897	20.0	19.9	
74 1,3-Dichloropropane	76	7.826	7.826	0.000	85	291635	20.0	18.9	
76 2-Hexanone	43	7.850	7.850	0.000	91	169515	40.0	29.6	
78 Chlorodibromomethane	129	8.016	8.016	0.000	90	169775	20.0	17.4	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	165343	20.0	19.6	
82 Chlorobenzene	112	8.597	8.597	0.000	96	610610	20.0	19.3	
83 1,1,1,2-Tetrachloroethane	131	8.668	8.668	0.000	94	182490	20.0	18.6	
84 Ethylbenzene	106	8.680	8.680	0.000	98	341001	20.0	19.0	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	428877	20.0	18.9	
86 o-Xylene	106	9.166	9.166	0.000	97	405458	20.0	19.0	
87 Styrene	104	9.190	9.190	0.000	95	625285	20.0	19.2	
88 Bromoform	173	9.368	9.367	0.001	97	99019	20.0	16.6	
89 Isopropylbenzene	105	9.522	9.522	0.000	95	1063783	20.0	19.0	
92 1,1,2,2-Tetrachloroethane	83	9.818	9.818	0.000	94	199542	20.0	20.1	
93 Bromobenzene	156	9.842	9.842	0.000	94	235590	20.0	19.8	
94 trans-1,4-Dichloro-2-butene	53	9.854	9.854	0.000	79	54844	20.0	16.3	
95 1,2,3-Trichloropropane	110	9.877	9.877	0.000	78	64403	20.0	19.9	
96 N-Propylbenzene	120	9.925	9.925	0.000	99	309596	20.0	20.3	
97 2-Chlorotoluene	126	10.020	10.020	0.000	97	250675	20.0	20.3	
99 1,3,5-Trimethylbenzene	105	10.103	10.103	0.000	94	902717	20.0	19.8	
100 4-Chlorotoluene	126	10.138	10.138	0.000	97	263197	20.0	20.5	
102 tert-Butylbenzene	119	10.411	10.411	0.000	92	774145	20.0	19.7	
104 1,2,4-Trimethylbenzene	105	10.470	10.470	0.000	96	903429	20.0	19.6	
105 sec-Butylbenzene	105	10.636	10.636	0.000	93	1183246	20.0	20.1	
106 1,3-Dichlorobenzene	146	10.755	10.755	0.000	97	473527	20.0	19.9	

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	10.779	10.779	0.000	97	1016969	20.0	20.3	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	476102	20.0	20.0	
111 n-Butylbenzene	91	11.194	11.194	0.000	97	920489	20.0	20.3	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	425961	20.0	19.3	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	88	44088	20.0	18.9	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	257557	20.0	20.1	
116 Hexachlorobutadiene	225	12.973	12.972	0.000	97	124494	20.0	21.6	
117 Naphthalene	128	13.115	13.115	0.000	96	649366	20.0	20.0	
118 1,2,3-Trichlorobenzene	180	13.364	13.364	0.000	96	221266	20.0	20.4	
S 134 Trihalomethanes, Total	1				0		80.0	69.3	
S 158 Total BTEX	1				0		100.0	95.6	
S 133 Xylenes, Total	106				0		40.0	37.9	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00412	Amount Added:	16.00	Units: uL	
vmfasaw_00377	Amount Added:	16.00	Units: uL	
VMFASPW_00402	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

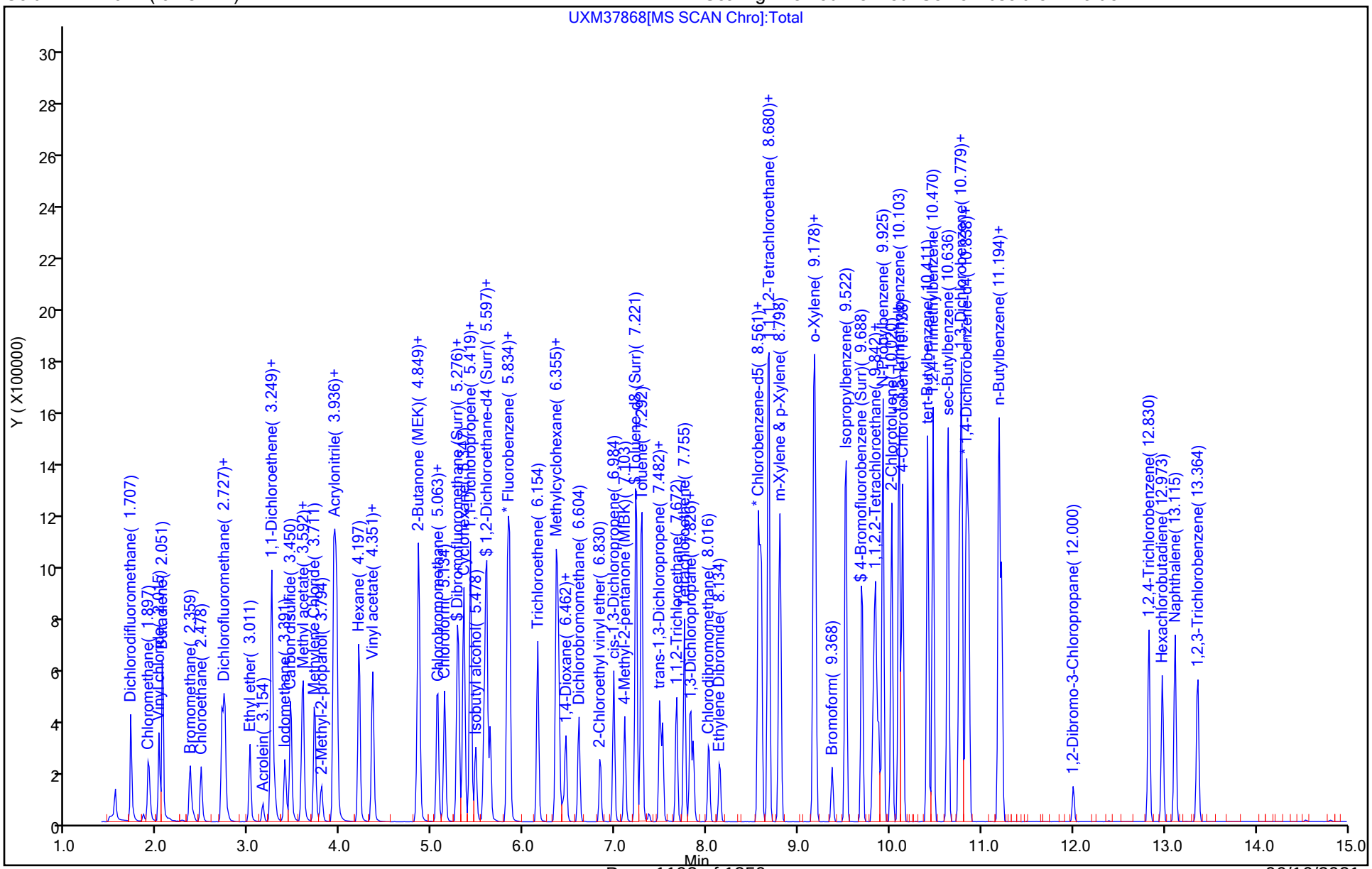
Report Date: 14-Jun-2021 11:37:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37868.D

Injection Date:	14-Jun-2021 11:16:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	LCS			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
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37868.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Jun-2021 11:16:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110223-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 11:37:27 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 11:37:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	20.8	91.90
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.1	84.26
$ 6 Toluene-d8 (Surr)	22.7	21.7	95.56
$ 7 4-Bromofluorobenzene (Surr)	22.7	22.8	100.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-490350/10

Matrix: Water Lab File ID: UX995985.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 12:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	34.5		10	5.4
71-43-2	Benzene	19.1		1.0	0.13
108-86-1	Bromobenzene	18.4		1.0	0.12
74-97-5	Bromochloromethane	18.3		1.0	0.14
75-27-4	Bromodichloromethane	19.5		1.0	0.17
75-25-2	Bromoform	18.4		1.0	0.76
74-83-9	Bromomethane	18.8		1.0	0.42
78-93-3	2-Butanone	36.0		10	1.2
75-15-0	Carbon disulfide	19.3		1.0	0.28
56-23-5	Carbon tetrachloride	19.5		1.0	0.26
108-90-7	Chlorobenzene	19.1		1.0	0.14
75-00-3	Chloroethane	19.8		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	18.4		10	0.26
67-66-3	Chloroform	19.2		1.0	0.13
74-87-3	Chloromethane	19.1		1.0	0.20
95-49-8	2-Chlorotoluene	18.7		1.0	0.15
106-43-4	4-Chlorotoluene	18.8		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	19.9		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	19.2		1.0	0.61
124-48-1	Dibromochloromethane	18.7		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		2.0	0.91
106-93-4	1,2-Dibromoethane	18.6		1.0	0.12
74-95-3	Dibromomethane	18.3		1.0	0.090
95-50-1	1,2-Dichlorobenzene	18.0		1.0	0.15
541-73-1	1,3-Dichlorobenzene	18.7		1.0	0.15
106-46-7	1,4-Dichlorobenzene	18.7		1.0	0.16
75-71-8	Dichlorodifluoromethane	17.6		1.0	0.35
75-34-3	1,1-Dichloroethane	19.0		1.0	0.17
107-06-2	1,2-Dichloroethane	18.8		1.0	0.21
75-35-4	1,1-Dichloroethene	20.6		1.0	0.19
78-87-5	1,2-Dichloropropane	19.7		1.0	0.15
142-28-9	1,3-Dichloropropane	18.2		1.0	0.21
594-20-7	2,2-Dichloropropane	19.7		1.0	0.31
563-58-6	1,1-Dichloropropene	19.0		1.0	0.14
100-41-4	Ethylbenzene	19.5		1.0	0.11
87-68-3	Hexachlorobutadiene	20.2		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-490350/10

Matrix: Water Lab File ID: UX995985.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 12:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	33.5		10	0.54
98-82-8	Isopropylbenzene	19.6		1.0	0.090
75-09-2	Methylene Chloride	18.9		5.0	2.6
108-10-1	4-Methyl-2-pentanone	34.8		10	0.42
1634-04-4	Methyl tert-butyl ether	18.6		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	19.5		2.0	0.080
91-20-3	Naphthalene	17.6		1.0	0.32
104-51-8	n-Butylbenzene	19.5		1.0	0.14
103-65-1	n-Propylbenzene	18.9		1.0	0.15
95-47-6	o-Xylene	19.6		1.0	0.090
99-87-6	p-Isopropyltoluene	19.6		1.0	0.13
135-98-8	sec-Butylbenzene	19.1		1.0	0.13
100-42-5	Styrene	20.0		1.0	0.10
75-65-0	tert-Butyl alcohol	173		40	1.7
98-06-6	tert-Butylbenzene	20.0		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	18.5		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	17.4		1.0	0.13
127-18-4	Tetrachloroethene	19.5		1.0	0.15
108-88-3	Toluene	19.1		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	19.7		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	17.8		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	18.3		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	18.9		1.0	0.26
71-55-6	1,1,1-Trichloroethane	19.4		1.0	0.24
79-01-6	Trichloroethene	19.5		1.0	0.10
75-69-4	Trichlorofluoromethane	19.8		1.0	0.45
96-18-4	1,2,3-Trichloropropane	17.3		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	19.0		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	19.4		1.0	0.070
108-05-4	Vinyl acetate	16.7		2.0	0.19
75-01-4	Vinyl chloride	20.4		1.0	0.20
1330-20-7	Xylenes, Total	39.1		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-490350/10

Matrix: Water Lab File ID: UX995985.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2021 12:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490350 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		47-134
1868-53-7	Dibromofluoromethane (Surr)	96		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995985.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 13-Jun-2021 12:15:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-010
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:51:37 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:51:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.877	5.879	-0.002	99	931353	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.575	8.577	-0.002	83	783959	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.813	-0.001	93	448960	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.286	5.287	-0.001	93	447067	20.0	19.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.582	5.583	-0.001	99	486814	20.0	18.4	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	92	1787754	20.0	19.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.677	-0.001	89	702091	20.0	19.0	
9 Dichlorodifluoromethane	85	1.760	1.763	-0.003	100	478154	20.0	17.6	
10 Chloromethane	50	1.949	1.952	-0.003	99	456061	20.0	19.1	
11 Vinyl chloride	62	2.079	2.082	-0.003	99	482708	20.0	20.4	
12 Butadiene	54	2.126	2.118	0.008	91	393015	20.0	17.9	
13 Bromomethane	94	2.434	2.437	-0.003	91	361511	20.0	18.8	
15 Chloroethane	64	2.541	2.544	-0.003	99	350009	20.0	19.8	
16 Dichlorofluoromethane	67	2.742	2.745	-0.003	98	797418	20.0	19.8	
17 Trichlorofluoromethane	101	2.813	2.816	-0.003	99	799977	20.0	19.8	
18 Ethyl ether	59	3.097	3.100	-0.003	87	321948	20.0	19.4	
21 Acrolein	56	3.215	3.218	-0.003	99	86151	100.0	148.9	
24 1,1-Dichloroethene	61	3.321	3.325	-0.003	97	644675	20.0	20.6	
22 112TCTFE	101	3.321	3.325	-0.003	92	453597	20.0	19.0	
23 Acetone	58	3.357	3.360	-0.003	100	51983	40.0	34.5	
25 Iodomethane	142	3.463	3.466	-0.003	99	580920	20.0	18.9	
26 Carbon disulfide	76	3.534	3.537	-0.003	99	1192750	20.0	19.3	
28 3-Chloro-1-propene	41	3.653	3.656	-0.003	89	593637	20.0	18.9	
29 Methyl acetate	43	3.665	3.668	-0.003	97	390137	40.0	37.7	
30 Methylene Chloride	49	3.759	3.762	-0.003	87	500744	20.0	18.9	
31 2-Methyl-2-propanol	59	3.842	3.845	-0.003	100	336683	200.0	172.7	
32 Acrylonitrile	53	3.972	3.963	0.009	99	1046622	200.0	177.3	
33 Methyl tert-butyl ether	73	4.020	4.011	0.009	94	1256916	20.0	18.6	
34 trans-1,2-Dichloroethene	61	4.020	4.023	-0.003	91	597451	20.0	19.7	
35 Hexane	57	4.268	4.271	-0.003	89	604605	20.0	18.7	
36 1,1-Dichloroethane	63	4.386	4.389	-0.003	97	786826	20.0	19.0	
37 Vinyl acetate	43	4.422	4.413	0.009	97	601395	20.0	16.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	4.895	4.886	0.009	84	542097	20.0	19.9	
41 2-Butanone (MEK)	72	4.883	4.886	-0.003	97	77572	40.0	36.0	
42 2,2-Dichloropropane	77	4.895	4.898	-0.003	89	841801	20.0	19.7	
47 Chlorobromomethane	49	5.085	5.088	-0.003	84	304857	20.0	18.3	
48 Tetrahydrofuran	42	5.144	5.135	0.009	83	166398	40.0	34.2	
49 Chloroform	83	5.156	5.147	0.009	95	841044	20.0	19.2	
50 1,1,1-Trichloroethane	97	5.333	5.336	-0.003	97	843819	20.0	19.4	
51 Cyclohexane	84	5.392	5.395	-0.003	85	800326	20.0	18.8	
52 1,1-Dichloropropene	75	5.475	5.466	0.009	96	642333	20.0	19.0	
53 Carbon tetrachloride	117	5.475	5.478	-0.003	98	751492	20.0	19.5	
54 Isobutyl alcohol	41	5.511	5.514	-0.003	89	213910	500.0	414.9	
56 1,2-Dichloroethane	62	5.653	5.644	0.009	57	572325	20.0	18.8	
55 Benzene	78	5.653	5.644	0.009	95	1848602	20.0	19.1	
58 n-Heptane	71	5.866	5.857	0.009	89	370684	20.0	17.4	
60 Trichloroethene	130	6.197	6.200	-0.003	96	552506	20.0	19.5	
62 Methylcyclohexane	83	6.374	6.377	-0.003	87	842313	20.0	19.0	
63 1,2-Dichloropropane	63	6.386	6.377	0.009	93	437313	20.0	19.7	
66 Dibromomethane	174	6.493	6.484	0.009	95	264300	20.0	18.3	
65 1,4-Dioxane	88	6.493	6.496	-0.003	87	83343	400.0	364.1	
67 Dichlorobromomethane	83	6.611	6.614	-0.003	100	652138	20.0	19.5	
69 2-Chloroethyl vinyl ether	63	6.848	6.851	-0.003	94	203627	20.0	18.4	
71 cis-1,3-Dichloropropene	75	7.001	7.005	-0.003	95	664195	20.0	19.2	
72 4-Methyl-2-pentanone (MIBK)	43	7.120	7.123	-0.003	93	560934	40.0	34.8	
73 Toluene	91	7.309	7.312	-0.003	99	2122942	20.0	19.1	
74 trans-1,3-Dichloropropene	75	7.487	7.478	0.009	92	548862	20.0	17.8	
75 Ethyl methacrylate	69	7.546	7.549	-0.003	87	481870	20.0	17.7	
76 1,1,2-Trichloroethane	97	7.652	7.655	-0.003	91	383336	20.0	18.2	
77 1,3-Dichloropropane	76	7.818	7.809	0.009	87	649238	20.0	18.2	
78 Tetrachloroethene	166	7.818	7.821	-0.003	98	583708	20.0	19.5	
80 2-Hexanone	43	7.865	7.868	-0.003	93	389833	40.0	33.5	
82 Chlorodibromomethane	129	8.031	8.022	0.009	89	476618	20.0	18.7	
83 Ethylene Dibromide	107	8.149	8.140	0.009	98	360015	20.0	18.6	
85 Chlorobenzene	112	8.599	8.602	-0.003	96	1414334	20.0	19.1	
86 1,1,1,2-Tetrachloroethane	131	8.670	8.661	0.009	95	530894	20.0	18.5	
87 Ethylbenzene	106	8.694	8.697	-0.003	97	848944	20.0	19.5	
88 m-Xylene & p-Xylene	106	8.800	8.803	-0.003	100	1051142	20.0	19.5	
89 o-Xylene	106	9.179	9.182	-0.003	95	1029048	20.0	19.6	
90 Styrene	104	9.191	9.194	-0.003	92	1515868	20.0	20.0	
91 Bromoform	173	9.368	9.371	-0.003	96	270836	20.0	18.4	
92 Isopropylbenzene	105	9.534	9.525	0.009	95	2635259	20.0	19.6	
94 1,1,2,2-Tetrachloroethane	83	9.794	9.797	-0.003	96	422045	20.0	17.4	
95 Bromobenzene	156	9.841	9.844	-0.003	95	598549	20.0	18.4	
97 1,2,3-Trichloropropane	110	9.853	9.844	0.009	81	161493	20.0	17.3	
96 trans-1,4-Dichloro-2-butene	53	9.841	9.844	-0.003	69	114782	20.0	17.0	
98 N-Propylbenzene	120	9.924	9.927	-0.003	98	754317	20.0	18.9	
100 2-Chlorotoluene	126	10.019	10.022	-0.003	97	625680	20.0	18.7	
101 1,3,5-Trimethylbenzene	105	10.090	10.093	-0.003	94	2127503	20.0	19.0	
102 4-Chlorotoluene	126	10.125	10.128	-0.003	97	643243	20.0	18.8	
104 tert-Butylbenzene	119	10.421	10.424	-0.003	90	2165821	20.0	20.0	
106 1,2,4-Trimethylbenzene	105	10.469	10.460	0.008	96	2168988	20.0	19.4	
107 sec-Butylbenzene	134	10.634	10.637	-0.003	94	606052	20.0	19.1	
108 1,3-Dichlorobenzene	146	10.752	10.755	-0.003	98	1170945	20.0	18.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 4-Isopropyltoluene	119	10.776	10.779	-0.003	97	2347364	20.0	19.6	
110 1,4-Dichlorobenzene	146	10.835	10.838	-0.003	94	1205615	20.0	18.7	
113 n-Butylbenzene	91	11.178	11.181	-0.003	96	1814984	20.0	19.5	
114 1,2-Dichlorobenzene	146	11.214	11.217	-0.003	98	1111269	20.0	18.0	
115 1,2-Dibromo-3-Chloropropane	157	11.983	11.974	0.009	89	89904	20.0	17.1	
117 1,2,4-Trichlorobenzene	180	12.823	12.826	-0.003	94	635850	20.0	18.9	
118 Hexachlorobutadiene	225	13.001	13.004	-0.003	97	230615	20.0	20.2	
119 Naphthalene	128	13.084	13.087	-0.003	96	1341471	20.0	17.6	
120 1,2,3-Trichlorobenzene	180	13.356	13.359	-0.003	96	517743	20.0	18.3	
S 158 Total BTEX	1				0		100.0	96.7	
S 130 Trihalomethanes, Total	83				0		80.0	75.7	
S 131 Xylenes, Total	106				0		40.0	39.0	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vm50ss_00444	Amount Added:	16.00	Units: uL
vmfasgw_00411	Amount Added:	16.00	Units: uL
vmfaspw_00402	Amount Added:	16.00	Units: uL
vmfasaw_00377	Amount Added:	16.00	Units: uL

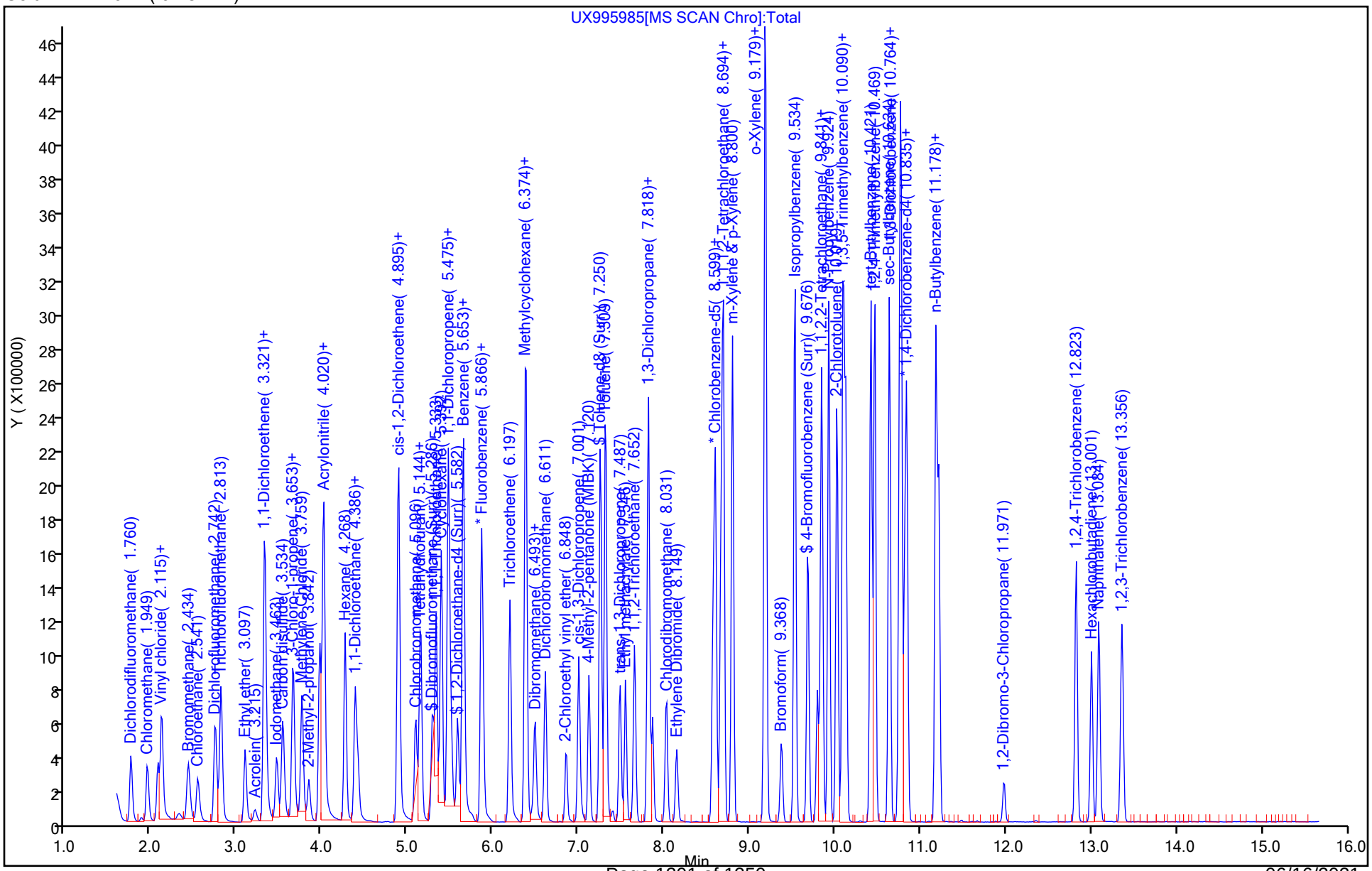
Report Date: 14-Jun-2021 07:51:38 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995985.D

Injection Date:	13-Jun-2021 12:15:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	LCSD			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\UX995985.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 13-Jun-2021 12:15:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0110195-010
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210613-110195.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 14-Jun-2021 07:51:37 Calib Date: 10-Jun-2021 16:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210610-110117.b\UX995922.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: bosworthh Date: 14-Jun-2021 07:51:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	19.2	96.04
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.4	91.93
$ 6 Toluene-d8 (Surr)	20.0	19.0	94.86
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.0	95.04

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-150571-B-1 MS

Matrix: Water Lab File ID: UXM37756.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 19:46

Soil Aliquot Vol: Dilution Factor: 20

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	832		20	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		75-130
2037-26-5	Toluene-d8 (Surr)	98		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37756.D				
Lims ID:	240-150571-B-1 MS				
Client ID:					
Sample Type:	MS				
Inject. Date:	09-Jun-2021 19:46:30	ALS Bottle#:	30	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Sample Info:	240-0110052-030				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	10-Jun-2021 07:33:41	Calib Date:	23-Apr-2021 18:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1622				
First Level Reviewer: bosworthh		Date:	10-Jun-2021 07:33:41		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	861616	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	686391	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	93	380469	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.265	0.011	94	237977	22.7	22.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	248741	22.7	20.1	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	930372	22.7	22.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	88	386195	22.7	24.0	
58 Trichloroethene	130	6.154	6.154	0.000	97	470399	20.0	41.6	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00410	Amount Added:	16.00	Units: uL	
vmfasaw_00377	Amount Added:	16.00	Units: uL	
vmfaspw_00401	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

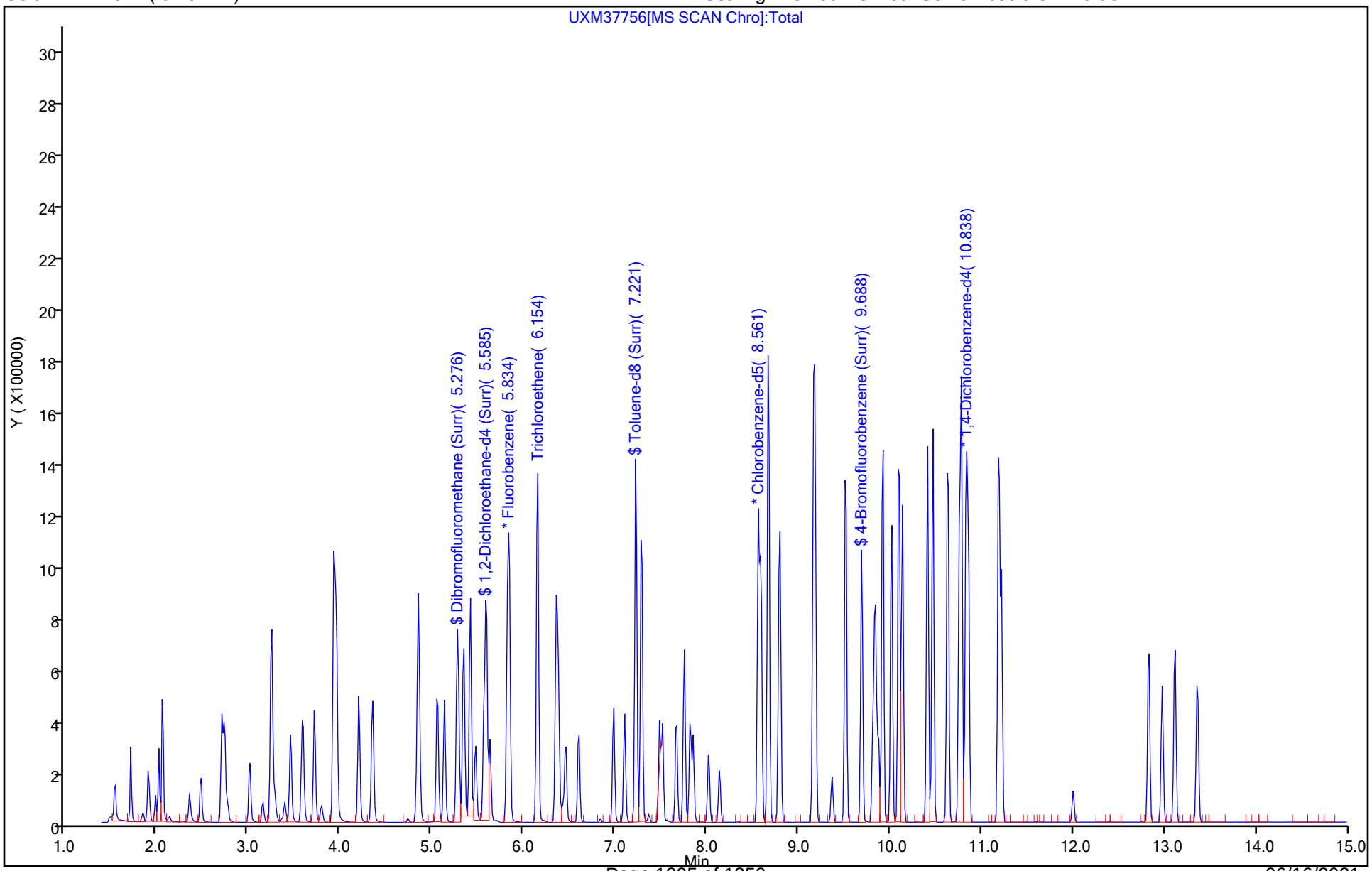
Report Date: 10-Jun-2021 07:49:22 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37756.D

Injection Date:	09-Jun-2021 19:46:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150571-B-1 MS			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	30
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\20210609-110052.b\UXM37756.D
Lims ID: 240-150571-B-1 MS
Client ID:
Sample Type: MS
Inject. Date: 09-Jun-2021 19:46:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 240-0110052-030
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Jun-2021 07:33:41 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bosworthh Date: 10-Jun-2021 07:33:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	22.8	100.34
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	20.1	88.84
$ 6 Toluene-d8 (Surr)	22.7	22.2	98.03
$ 7 4-Bromofluorobenzene (Surr)	22.7	24.0	105.82

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-150799-B-2 MS

Matrix: Water Lab File ID: UXM37892.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 21:05

Soil Aliquot Vol: Dilution Factor: 80

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	3580		800	430
71-43-2	Benzene	1540		80	10
75-27-4	Bromodichloromethane	1410		80	14
75-25-2	Bromoform	1280		80	61
74-83-9	Bromomethane	1290		80	34
78-93-3	2-Butanone	3390		800	93
75-15-0	Carbon disulfide	1620		80	22
56-23-5	Carbon tetrachloride	1400		80	21
108-90-7	Chlorobenzene	1500		80	11
75-00-3	Chloroethane	1420		80	66
67-66-3	Chloroform	1520		80	10
74-87-3	Chloromethane	1260		80	16
156-59-2	cis-1,2-Dichloroethene	2300		80	13
10061-01-5	cis-1,3-Dichloropropene	1420		80	49
124-48-1	Dibromochloromethane	1350		80	31
96-12-8	1,2-Dibromo-3-Chloropropane	1460		160	73
106-93-4	1,2-Dibromoethane	1490		80	9.6
95-50-1	1,2-Dichlorobenzene	1530		80	12
541-73-1	1,3-Dichlorobenzene	1520		80	12
106-46-7	1,4-Dichlorobenzene	1560		80	13
75-71-8	Dichlorodifluoromethane	1320		80	28
75-34-3	1,1-Dichloroethane	1440		80	14
107-06-2	1,2-Dichloroethane	1400		80	17
75-35-4	1,1-Dichloroethene	1760		80	15
78-87-5	1,2-Dichloropropane	1520		80	12
100-41-4	Ethylbenzene	1470		80	8.8
591-78-6	2-Hexanone	2370		800	43
98-82-8	Isopropylbenzene	1460		80	7.2
75-09-2	Methylene Chloride	1620		400	210
108-10-1	4-Methyl-2-pentanone	2330		800	34
1634-04-4	Methyl tert-butyl ether	1420		80	5.6
179601-23-1	m-Xylene & p-Xylene	1470		160	6.4
95-47-6	o-Xylene	1520		80	7.2
100-42-5	Styrene	1510		80	8.0
79-34-5	1,1,2,2-Tetrachloroethane	1570		80	10
127-18-4	Tetrachloroethene	1470		80	12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-150799-B-2 MS

Matrix: Water Lab File ID: UXM37892.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 21:05

Soil Aliquot Vol: Dilution Factor: 80

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	1470		80	11
156-60-5	trans-1,2-Dichloroethene	1630		80	15
10061-02-6	trans-1,3-Dichloropropene	1230		80	54
120-82-1	1,2,4-Trichlorobenzene	1590		80	21
71-55-6	1,1,1-Trichloroethane	1440		80	19
79-01-6	Trichloroethene	3260		80	8.0
75-69-4	Trichlorofluoromethane	1450		80	36
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1580		80	33
75-01-4	Vinyl chloride	1530		80	16
1330-20-7	Xylenes, Total	2990		160	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	95		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		75-130
2037-26-5	Toluene-d8 (Surr)	93		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37892.D
Lims ID: 240-150799-B-2 MS
Client ID:
Sample Type: MS
Inject. Date: 14-Jun-2021 21:05:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 80.0000
Sample Info: 240-0110223-029
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:15:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	870250	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	689110	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	370227	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	228705	22.7	21.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	98	242608	22.7	19.5	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	889655	22.7	21.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	90	368362	22.7	22.8	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	257551	20.0	16.5	
10 Chloromethane	50	1.897	1.897	0.000	99	255209	20.0	15.8	
11 Vinyl chloride	62	2.015	2.015	0.000	98	307350	20.0	19.2	
13 Bromomethane	94	2.347	2.359	-0.012	89	146728	20.0	16.2	
14 Chloroethane	64	2.478	2.478	0.000	99	159726	20.0	17.8	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	97	314695	20.0	18.1	
19 1,1-Dichloroethene	96	3.237	3.248	-0.011	97	212156	20.0	21.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.248	0.001	90	148528	20.0	19.7	
21 Acetone	58	3.284	3.284	0.000	99	36514	40.0	44.8	
24 Carbon disulfide	76	3.450	3.450	0.000	98	639438	20.0	20.2	
27 Methyl acetate	43	3.569	3.569	0.000	97	237481	40.0	32.9	
28 Methylene Chloride	84	3.711	3.711	0.000	86	232094	20.0	20.3	
31 Methyl tert-butyl ether	73	3.948	3.948	0.000	93	474119	20.0	17.7	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	97	236035	20.0	20.4	
34 1,1-Dichloroethane	63	4.351	4.351	0.000	96	368047	20.0	18.0	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	98	43436	40.0	42.4	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	81	369437	20.0	28.7	
47 Chloroform	83	5.134	5.134	0.000	92	377241	20.0	19.0	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	98	308392	20.0	18.0	
49 Cyclohexane	56	5.347	5.347	0.000	85	337321	20.0	17.8	
51 Carbon tetrachloride	117	5.419	5.419	0.000	87	245812	20.0	17.5	
54 Benzene	78	5.597	5.596	0.001	96	848557	20.0	19.3	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	97	255979	20.0	17.5	
58 Trichloroethene	130	6.154	6.154	0.000	96	465418	20.0	40.7	
60 Methylcyclohexane	83	6.355	6.355	0.000	88	341970	20.0	17.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
61 1,2-Dichloropropane	63	6.379	6.379	0.000	96	197106	20.0	19.0	
65 Dichlorobromomethane	83	6.604	6.604	0.000	99	259854	20.0	17.6	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	98	302236	20.0	17.7	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.102	0.001	93	227895	40.0	29.1	
70 Toluene	91	7.292	7.292	0.000	99	907345	20.0	18.4	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	90	238845	20.0	15.4	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	87	156328	20.0	18.6	
75 Tetrachloroethene	164	7.755	7.755	0.000	97	168554	20.0	18.4	
76 2-Hexanone	43	7.850	7.850	0.000	90	168455	40.0	29.6	
78 Chlorodibromomethane	129	8.016	8.016	0.000	90	164431	20.0	16.9	
80 Ethylene Dibromide	107	8.134	8.134	0.000	98	156563	20.0	18.7	
82 Chlorobenzene	112	8.597	8.597	0.000	96	591160	20.0	18.8	
84 Ethylbenzene	106	8.680	8.680	0.000	98	326825	20.0	18.3	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	415068	20.0	18.4	
86 o-Xylene	106	9.166	9.166	0.000	96	402891	20.0	19.0	
87 Styrene	104	9.190	9.190	0.000	94	614412	20.0	18.9	
88 Bromoform	173	9.368	9.367	0.001	96	94943	20.0	16.0	
89 Isopropylbenzene	105	9.522	9.522	0.000	95	1017309	20.0	18.2	
92 1,1,2,2-Tetrachloroethane	83	9.818	9.818	0.000	94	201258	20.0	19.6	
106 1,3-Dichlorobenzene	146	10.755	10.755	0.000	97	467238	20.0	19.0	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	95	479662	20.0	19.5	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	434749	20.0	19.1	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	88	44080	20.0	18.3	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	262215	20.0	19.8	
S 133 Xylenes, Total	106				0		40.0	37.4	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00412	Amount Added:	16.00	Units: uL	
VMFASPW_00402	Amount Added:	16.00	Units: uL	
vmfasaw_00377	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

Report Date: 15-Jun-2021 08:15:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37892.D

Injection Date: 14-Jun-2021 21:05:30 Instrument ID: A3UX16 Operator ID: 001765

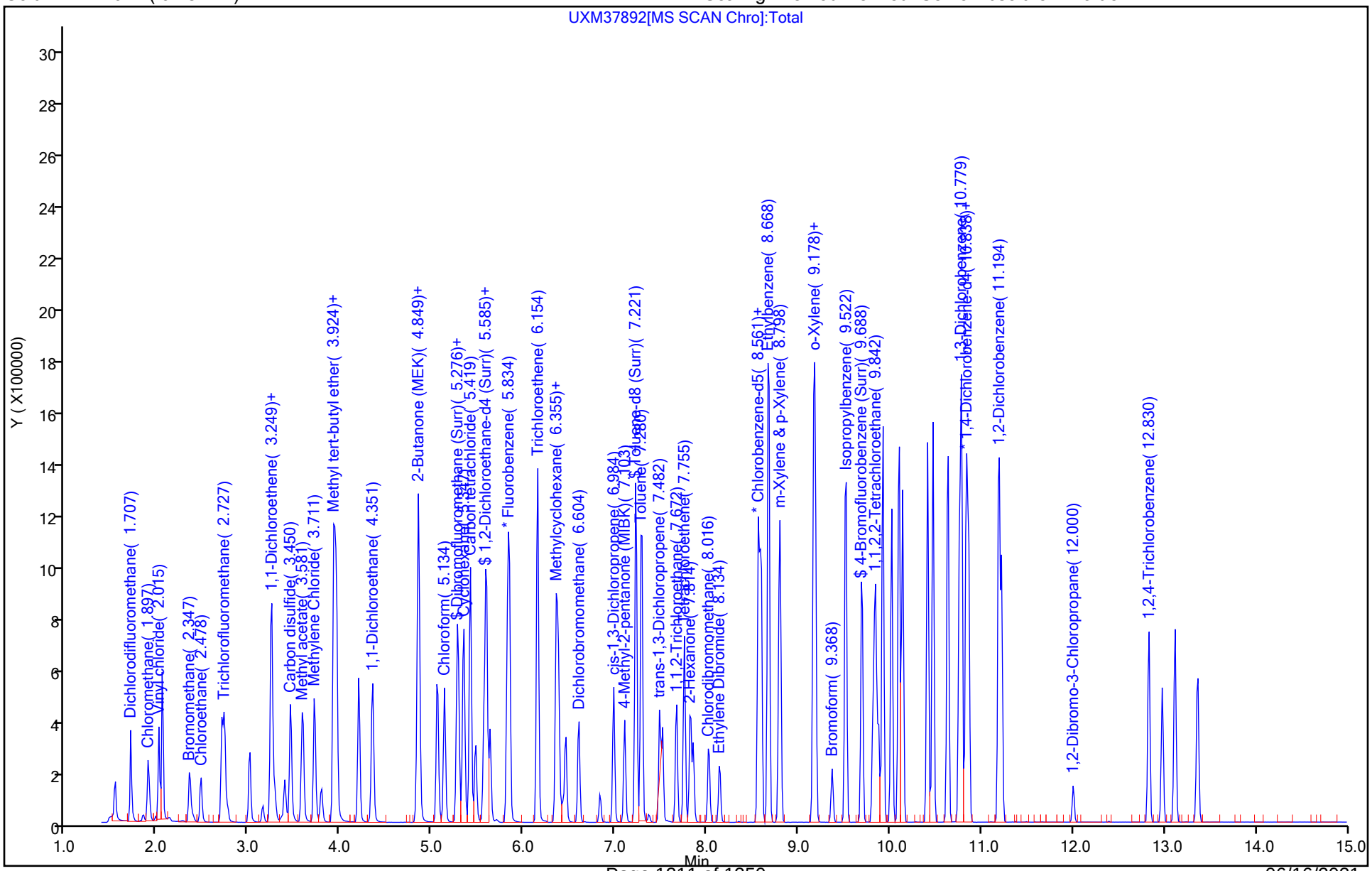
Lims ID: 240-150799-B-2 MS Worklist Smp#: 29

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 80.0000 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\20210614-110223.b\UXM37892.D
Lims ID: 240-150799-B-2 MS
Client ID:
Sample Type: MS
Inject. Date: 14-Jun-2021 21:05:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 80.0000
Sample Info: 240-0110223-029
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:15:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	21.7	95.47
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.5	85.79
$ 6 Toluene-d8 (Surr)	22.7	21.2	93.37
$ 7 4-Bromofluorobenzene (Surr)	22.7	22.8	100.53

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-150571-B-1 MSD

Matrix: Water Lab File ID: UXM37757.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/09/2021 20:10

Soil Aliquot Vol: Dilution Factor: 20

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 489711 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	877		20	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	95		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37757.D				
Lims ID:	240-150571-B-1 MSD				
Client ID:					
Sample Type:	MSD				
Inject. Date:	09-Jun-2021 20:10:30	ALS Bottle#:	31	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Sample Info:					
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	10-Jun-2021 07:33:41	Calib Date:	23-Apr-2021 18:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1622				
First Level Reviewer: bosworthh		Date:	10-Jun-2021 07:34:02		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	891768	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	83	690931	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	94	365230	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.265	0.011	94	232873	22.7	21.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	250931	22.7	19.6	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	929365	22.7	22.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	89	380670	22.7	23.5	
58 Trichloroethene	130	6.154	6.154	0.000	97	513011	20.0	43.8	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00410	Amount Added:	16.00	Units: uL	
vmfasaw_00377	Amount Added:	16.00	Units: uL	
vmfaspw_00401	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

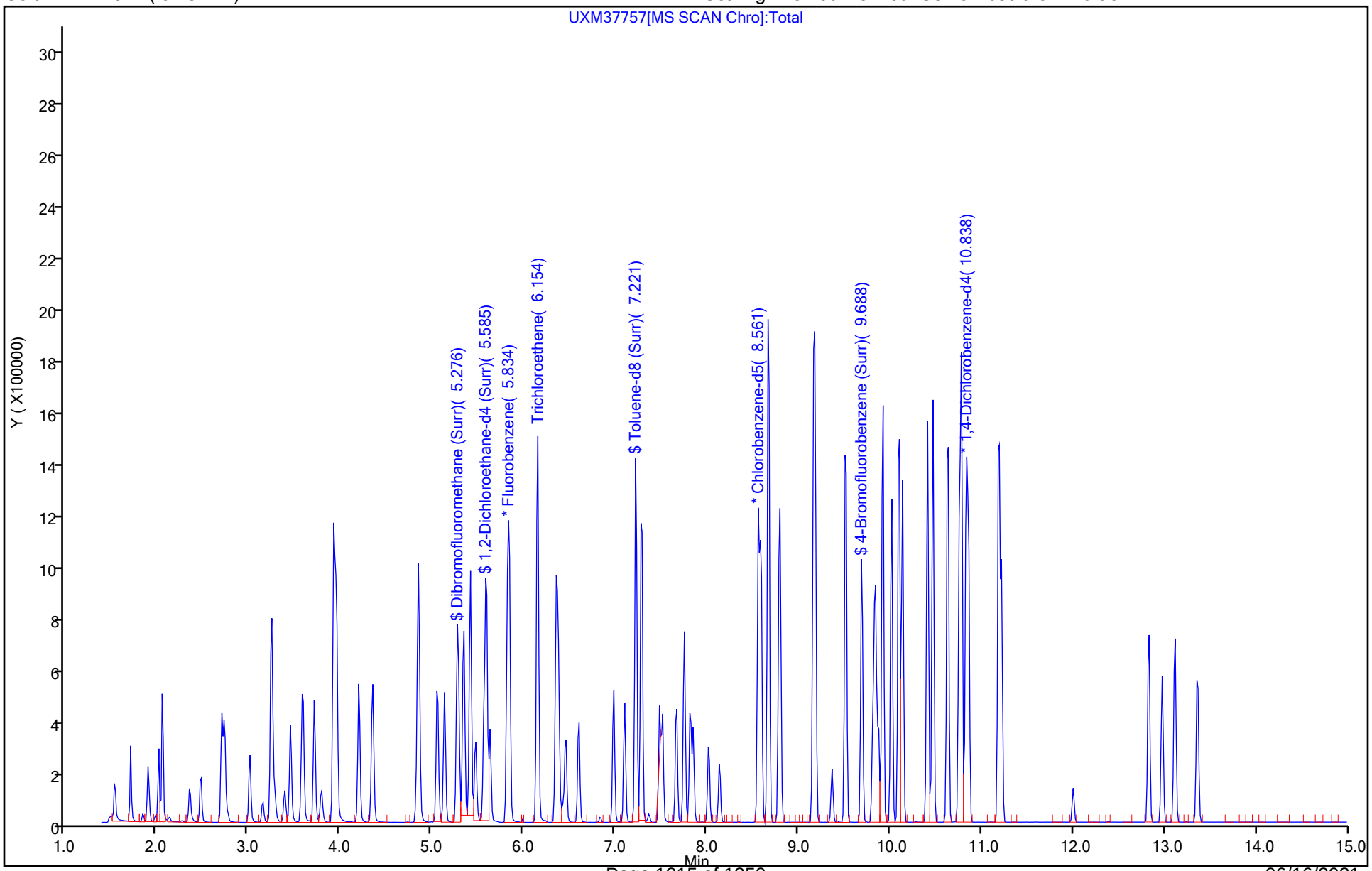
Report Date: 10-Jun-2021 07:34:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\UXM37757.D

Injection Date:	09-Jun-2021 20:10:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150571-B-1 MSD			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	31
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\20210609-110052.b\UXM37757.D
Lims ID: 240-150571-B-1 MSD
Client ID:
Sample Type: MSD
Inject. Date: 09-Jun-2021 20:10:30 ALS Bottle#: 31 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info:
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210609-110052.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Jun-2021 07:33:41 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bosworthh Date: 10-Jun-2021 07:34:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	21.5	94.87
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.6	86.59
$ 6 Toluene-d8 (Surr)	22.7	22.1	97.28
$ 7 4-Bromofluorobenzene (Surr)	22.7	23.5	103.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-150799-B-2 MSD

Matrix: Water Lab File ID: UXM37893.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 21:29

Soil Aliquot Vol: Dilution Factor: 80

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	3710		800	430
71-43-2	Benzene	1680		80	10
75-27-4	Bromodichloromethane	1510		80	14
75-25-2	Bromoform	1360		80	61
74-83-9	Bromomethane	1410		80	34
78-93-3	2-Butanone	3430		800	93
75-15-0	Carbon disulfide	1820		80	22
56-23-5	Carbon tetrachloride	1550		80	21
108-90-7	Chlorobenzene	1640		80	11
75-00-3	Chloroethane	1580		80	66
67-66-3	Chloroform	1650		80	10
74-87-3	Chloromethane	1390		80	16
156-59-2	cis-1,2-Dichloroethene	2490		80	13
10061-01-5	cis-1,3-Dichloropropene	1530		80	49
124-48-1	Dibromochloromethane	1470		80	31
96-12-8	1,2-Dibromo-3-Chloropropane	1530		160	73
106-93-4	1,2-Dibromoethane	1600		80	9.6
95-50-1	1,2-Dichlorobenzene	1640		80	12
541-73-1	1,3-Dichlorobenzene	1670		80	12
106-46-7	1,4-Dichlorobenzene	1690		80	13
75-71-8	Dichlorodifluoromethane	1440		80	28
75-34-3	1,1-Dichloroethane	1600		80	14
107-06-2	1,2-Dichloroethane	1500		80	17
75-35-4	1,1-Dichloroethene	1920		80	15
78-87-5	1,2-Dichloropropane	1670		80	12
100-41-4	Ethylbenzene	1610		80	8.8
591-78-6	2-Hexanone	2400		800	43
98-82-8	Isopropylbenzene	1590		80	7.2
75-09-2	Methylene Chloride	1790		400	210
108-10-1	4-Methyl-2-pentanone	2470		800	34
1634-04-4	Methyl tert-butyl ether	1510		80	5.6
179601-23-1	m-Xylene & p-Xylene	1620		160	6.4
95-47-6	o-Xylene	1660		80	7.2
100-42-5	Styrene	1650		80	8.0
79-34-5	1,1,2,2-Tetrachloroethane	1660		80	10
127-18-4	Tetrachloroethene	1620		80	12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-150799-B-2 MSD

Matrix: Water Lab File ID: UXM37893.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/14/2021 21:29

Soil Aliquot Vol: Dilution Factor: 80

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 490456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	1600		80	11
156-60-5	trans-1,2-Dichloroethene	1770		80	15
10061-02-6	trans-1,3-Dichloropropene	1330		80	54
120-82-1	1,2,4-Trichlorobenzene	1700		80	21
71-55-6	1,1,1-Trichloroethane	1590		80	19
79-01-6	Trichloroethene	3450		80	8.0
75-69-4	Trichlorofluoromethane	1590		80	36
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1790		80	33
75-01-4	Vinyl chloride	1620		80	16
1330-20-7	Xylenes, Total	3280		160	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	96		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		75-130
2037-26-5	Toluene-d8 (Surr)	95		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37893.D
Lims ID: 240-150799-B-2 MSD
Client ID:
Sample Type: MSD
Inject. Date: 14-Jun-2021 21:29:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 80.0000
Sample Info: 240-0110223-030
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:15:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.846	5.846	0.000	99	845864	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.561	8.561	0.000	84	672681	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.838	10.838	0.000	95	357625	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.276	0.000	94	224626	22.7	21.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.561	5.561	0.000	97	237367	22.7	19.6	
$ 6 Toluene-d8 (Surr)	98	7.221	7.221	0.000	92	879261	22.7	21.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.688	9.688	0.000	91	357617	22.7	22.7	
9 Dichlorodifluoromethane	85	1.707	1.707	0.000	99	274269	20.0	18.0	
10 Chloromethane	50	1.897	1.897	0.000	99	272781	20.0	17.4	
11 Vinyl chloride	62	2.015	2.015	0.000	97	315870	20.0	20.3	
13 Bromomethane	94	2.347	2.359	-0.012	90	154733	20.0	17.6	
14 Chloroethane	64	2.478	2.478	0.000	99	172505	20.0	19.7	
16 Trichlorofluoromethane	101	2.727	2.727	0.000	98	335643	20.0	19.8	
19 1,1-Dichloroethene	96	3.249	3.248	0.001	97	225869	20.0	24.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.249	3.248	0.001	90	163926	20.0	22.4	
21 Acetone	58	3.284	3.284	0.000	99	36719	40.0	46.4	
24 Carbon disulfide	76	3.450	3.450	0.000	98	699043	20.0	22.7	
27 Methyl acetate	43	3.581	3.569	0.012	96	243997	40.0	34.8	
28 Methylene Chloride	84	3.711	3.711	0.000	86	249406	20.0	22.4	
31 Methyl tert-butyl ether	73	3.948	3.948	0.000	93	491113	20.0	18.9	
32 trans-1,2-Dichloroethene	96	3.960	3.960	0.000	98	249768	20.0	22.2	
34 1,1-Dichloroethane	63	4.351	4.351	0.000	96	397322	20.0	20.0	
40 2-Butanone (MEK)	72	4.826	4.826	0.000	99	42751	40.0	42.9	
39 cis-1,2-Dichloroethene	96	4.849	4.849	0.000	78	388700	20.0	31.1	
47 Chloroform	83	5.134	5.134	0.000	92	399349	20.0	20.6	
48 1,1,1-Trichloroethane	97	5.288	5.288	0.000	98	330492	20.0	19.8	
49 Cyclohexane	56	5.347	5.347	0.000	85	376762	20.0	20.5	
51 Carbon tetrachloride	117	5.419	5.419	0.000	87	265740	20.0	19.4	
54 Benzene	78	5.597	5.596	0.001	95	899248	20.0	21.0	
53 1,2-Dichloroethane	62	5.632	5.632	0.000	97	266784	20.0	18.8	
58 Trichloroethene	130	6.154	6.154	0.000	97	479491	20.0	43.2	
60 Methylcyclohexane	83	6.355	6.355	0.000	88	370391	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
61 1,2-Dichloropropane	63	6.379	6.379	0.000	96	210726	20.0	20.9	
65 Dichlorobromomethane	83	6.604	6.604	0.000	99	270966	20.0	18.8	
68 cis-1,3-Dichloropropene	75	6.984	6.984	0.000	98	317299	20.0	19.1	
69 4-Methyl-2-pentanone (MIBK)	43	7.103	7.102	0.001	93	234276	40.0	30.8	
70 Toluene	91	7.292	7.292	0.000	99	965966	20.0	20.1	
71 trans-1,3-Dichloropropene	75	7.482	7.482	0.000	90	251859	20.0	16.7	
73 1,1,2-Trichloroethane	97	7.672	7.672	0.000	89	161092	20.0	19.6	
75 Tetrachloroethene	164	7.755	7.755	0.000	97	180875	20.0	20.2	
76 2-Hexanone	43	7.850	7.850	0.000	91	166919	40.0	30.0	
78 Chlorodibromomethane	129	8.016	8.016	0.000	89	174712	20.0	18.4	
80 Ethylene Dibromide	107	8.134	8.134	0.000	99	163932	20.0	20.0	
82 Chlorobenzene	112	8.597	8.597	0.000	97	630488	20.0	20.5	
84 Ethylbenzene	106	8.680	8.680	0.000	98	350378	20.0	20.1	
85 m-Xylene & p-Xylene	106	8.798	8.798	0.000	97	445603	20.0	20.2	
86 o-Xylene	106	9.166	9.166	0.000	96	429998	20.0	20.7	
87 Styrene	104	9.190	9.190	0.000	96	654020	20.0	20.6	
88 Bromoform	173	9.368	9.367	0.001	97	98869	20.0	17.1	
89 Isopropylbenzene	105	9.522	9.522	0.000	95	1085322	20.0	19.9	
92 1,1,2,2-Tetrachloroethane	83	9.818	9.818	0.000	94	205472	20.0	20.8	
106 1,3-Dichlorobenzene	146	10.755	10.755	0.000	97	494521	20.0	20.8	
108 1,4-Dichlorobenzene	146	10.862	10.862	0.000	96	504368	20.0	21.2	
112 1,2-Dichlorobenzene	146	11.217	11.217	0.000	98	449721	20.0	20.5	
113 1,2-Dibromo-3-Chloropropane	157	12.000	12.000	0.000	88	44452	20.0	19.1	
115 1,2,4-Trichlorobenzene	180	12.830	12.830	0.000	94	271131	20.0	21.2	
S 133 Xylenes, Total	106				0		40.0	41.0	

QC Flag Legend

Processing Flags

Reagents:

VMFASPW_00402	Amount Added:	16.00	Units: uL	
vmfasaw_00377	Amount Added:	16.00	Units: uL	
vmfasgw_00412	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00195	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00087	Amount Added:	2.27	Units: uL	Run Reagent
vm40ml_vials_00016	Amount Added:	0.00	Units:	Run Reagent

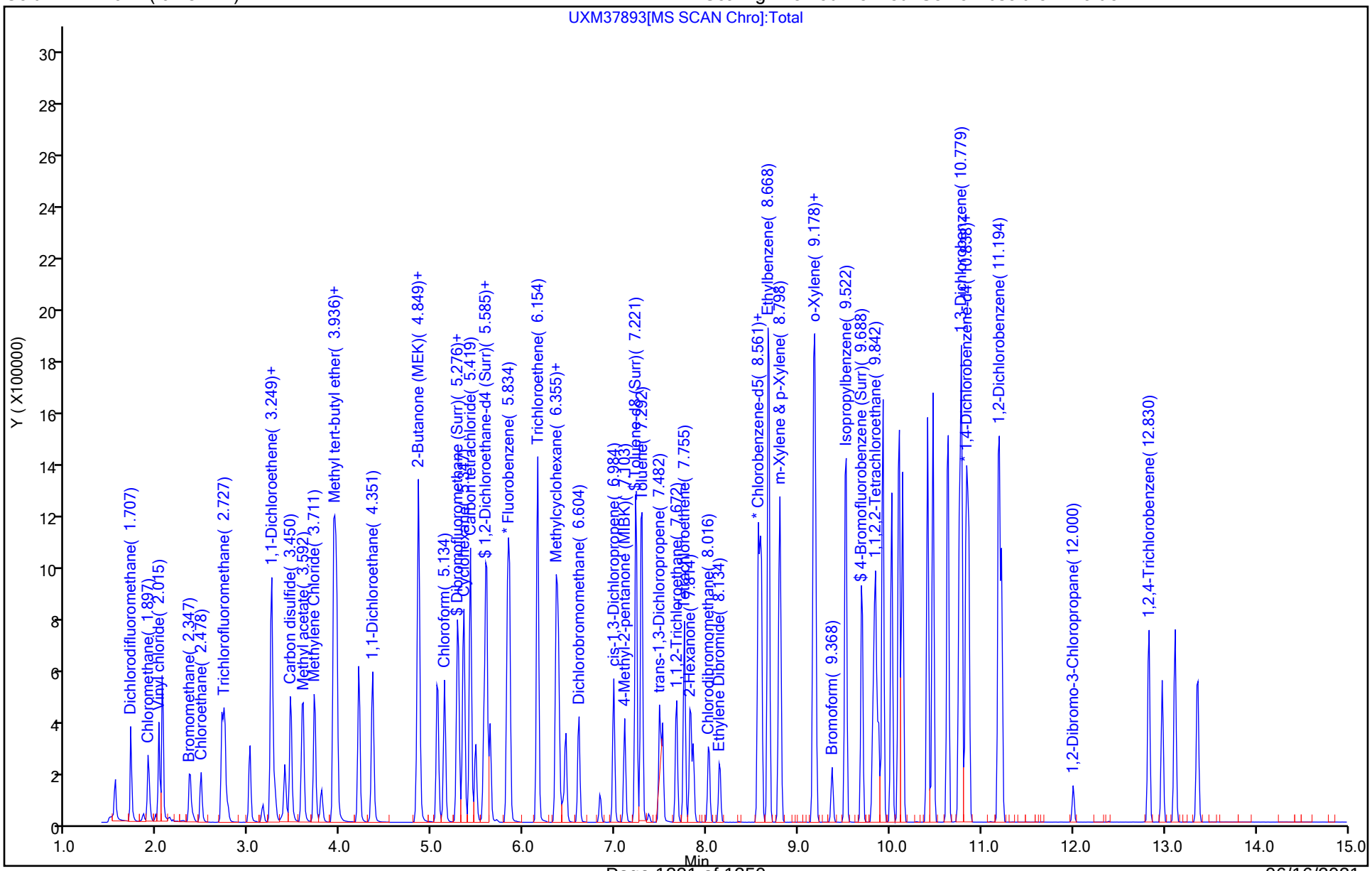
Report Date: 15-Jun-2021 08:15:42 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\UXM37893.D

Injection Date:	14-Jun-2021 21:29:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-150799-B-2 MSD			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	80.0000	ALS Bottle#:	30
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\20210614-110223.b\UXM37893.D
Lims ID: 240-150799-B-2 MSD
Client ID:
Sample Type: MSD
Inject. Date: 14-Jun-2021 21:29:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 80.0000
Sample Info: 240-0110223-030
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210614-110223.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jun-2021 08:10:26 Calib Date: 23-Apr-2021 18:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20210423-108510.b\UXM36575.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1606

First Level Reviewer: bosworthh Date: 15-Jun-2021 08:15:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	22.7	21.9	96.47
$ 5 1,2-Dichloroethane-d4 (Surr)	22.7	19.6	86.35
$ 6 Toluene-d8 (Surr)	22.7	21.4	94.53
$ 7 4-Bromofluorobenzene (Surr)	22.7	22.7	99.98

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 04/23/2021 11:11

Analysis Batch Number: 482539 End Date: 04/23/2021 18:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-482539/1		04/23/2021 11:11	1	BFB6676.D	DB-624 0.18(mm)
STD8260 240-482539/9 IC		04/23/2021 12:04	1	UXM36559.D	DB-624 0.18(mm)
STD8260 240-482539/10 IC		04/23/2021 12:28	1	UXM36560.D	DB-624 0.18(mm)
STD8260 240-482539/11 IC		04/23/2021 12:52	1	UXM36561.D	DB-624 0.18(mm)
ICIS 240-482539/12		04/23/2021 13:16	1	UXM36562.D	DB-624 0.18(mm)
STD8260 240-482539/13 IC		04/23/2021 13:40	1	UXM36563.D	DB-624 0.18(mm)
STD8260 240-482539/14 IC		04/23/2021 14:04	1	UXM36564.D	DB-624 0.18(mm)
STD8260 240-482539/15 IC		04/23/2021 14:28	1	UXM36565.D	DB-624 0.18(mm)
STD8260 240-482539/16 IC		04/23/2021 14:53	1	UXM36566.D	DB-624 0.18(mm)
ICV 240-482539/17		04/23/2021 15:17	1	UXM36567.D	DB-624 0.18(mm)
STDA9 240-482539/20 IC		04/23/2021 16:29	1	UXM36570.D	DB-624 0.18(mm)
STDA9 240-482539/21 IC		04/23/2021 16:53	1	UXM36571.D	DB-624 0.18(mm)
STDA9 240-482539/22 IC		04/23/2021 17:17	1	UXM36572.D	DB-624 0.18(mm)
STDA9 240-482539/23 IC		04/23/2021 17:42	1	UXM36573.D	DB-624 0.18(mm)
STDA9 240-482539/24 IC		04/23/2021 18:06	1	UXM36574.D	DB-624 0.18(mm)
STDA9 240-482539/25 IC		04/23/2021 18:30	1	UXM36575.D	DB-624 0.18(mm)
ICV 240-482539/26		04/23/2021 18:55	1	UXM36576.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 06/09/2021 08:31

Analysis Batch Number: 489711 End Date: 06/09/2021 20:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-489711/2		06/09/2021 08:31	1	BFB6716.D	DB-624 0.18(mm)
CCVIS 240-489711/3		06/09/2021 08:53	1	UXM37729.D	DB-624 0.18(mm)
CCV 240-489711/4		06/09/2021 09:17	1	UXM37730.D	DB-624 0.18(mm)
LCS 240-489711/5		06/09/2021 09:42	1	UXM37731.D	DB-624 0.18(mm)
MDLV 240-489711/6		06/09/2021 10:06	1		DB-624 0.18(mm)
MDLV 240-489711/7		06/09/2021 10:30	1		DB-624 0.18(mm)
MB 240-489711/8		06/09/2021 10:54	1	UXM37734.D	DB-624 0.18(mm)
MDLV 240-489711/9		06/09/2021 11:18	1		DB-624 0.18(mm)
ZZZZZ		06/09/2021 11:42	50		DB-624 0.18(mm)
ZZZZZ		06/09/2021 12:07	50		DB-624 0.18(mm)
ZZZZZ		06/09/2021 12:31	1		DB-624 0.18(mm)
ZZZZZ		06/09/2021 12:55	1		DB-624 0.18(mm)
ZZZZZ		06/09/2021 13:19	1		DB-624 0.18(mm)
ZZZZZ		06/09/2021 13:43	1		DB-624 0.18(mm)
ZZZZZ		06/09/2021 14:07	10		DB-624 0.18(mm)
ZZZZZ		06/09/2021 17:45	20		DB-624 0.18(mm)
ZZZZZ		06/09/2021 18:09	1		DB-624 0.18(mm)
ZZZZZ		06/09/2021 18:33	1		DB-624 0.18(mm)
240-150601-1	MSA-SW37A-060221	06/09/2021 18:57	1	UXM37754.D	DB-624 0.18(mm)
240-150601-2	MSA-SW37B-060221	06/09/2021 19:21	1	UXM37755.D	DB-624 0.18(mm)
240-150571-B-1 MS		06/09/2021 19:46	20	UXM37756.D	DB-624 0.18(mm)
240-150571-B-1 MSD		06/09/2021 20:10	20	UXM37757.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 06/10/2021 10:18

Analysis Batch Number: 489988 End Date: 06/10/2021 17:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-489988/1		06/10/2021 10:18	1	BFB1289.D	DB-624 0.18(mm)
STD8260 240-489988/8 IC		06/10/2021 11:06	1	UX995907.D	DB-624 0.18(mm)
STD8260 240-489988/9 IC		06/10/2021 11:29	1	UX995908.D	DB-624 0.18(mm)
STD8260 240-489988/10 IC		06/10/2021 11:51	1	UX995909.D	DB-624 0.18(mm)
ICIS 240-489988/11		06/10/2021 12:14	1	UX995910.D	DB-624 0.18(mm)
STD8260 240-489988/12 IC		06/10/2021 12:36	1	UX995911.D	DB-624 0.18(mm)
STD8260 240-489988/13 IC		06/10/2021 12:59	1	UX995912.D	DB-624 0.18(mm)
STD8260 240-489988/14 IC		06/10/2021 13:21	1	UX995913.D	DB-624 0.18(mm)
ICV 240-489988/15		06/10/2021 13:44	1	UX995914.D	DB-624 0.18(mm)
STDA9 240-489988/18 IC		06/10/2021 14:52	1	UX995917.D	DB-624 0.18(mm)
STDA9 240-489988/19 IC		06/10/2021 15:14	1	UX995918.D	DB-624 0.18(mm)
STDA9 240-489988/20 IC		06/10/2021 15:37	1	UX995919.D	DB-624 0.18(mm)
STDA9 240-489988/21 IC		06/10/2021 16:00	1	UX995920.D	DB-624 0.18(mm)
STDA9 240-489988/22 IC		06/10/2021 16:22	1	UX995921.D	DB-624 0.18(mm)
STDA9 240-489988/23 IC		06/10/2021 16:45	1	UX995922.D	DB-624 0.18(mm)
ICV 240-489988/24		06/10/2021 17:07	1	UX995923.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 06/13/2021 09:29

Analysis Batch Number: 490350 End Date: 06/13/2021 19:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-490350/1		06/13/2021 09:29	1	BFB1291.D	DB-624 0.18(mm)
CCVIS 240-490350/4		06/13/2021 09:59	1	UX995979.D	DB-624 0.18(mm)
CCV 240-490350/5		06/13/2021 10:22	1	UX995980.D	DB-624 0.18(mm)
LCS 240-490350/6		06/13/2021 10:45	1	UX995981.D	DB-624 0.18(mm)
MRL 240-490350/7 MDLV		06/13/2021 11:07	1		DB-624 0.18(mm)
MRL 240-490350/8 MDLV		06/13/2021 11:30	1		DB-624 0.18(mm)
MB 240-490350/9		06/13/2021 11:53	1	UX995984.D	DB-624 0.18(mm)
LCSD 240-490350/10		06/13/2021 12:15	1	UX995985.D	DB-624 0.18(mm)
240-150601-3	MSA-SW37C-060221	06/13/2021 12:38	1	UX995986.D	DB-624 0.18(mm)
240-150601-4	MSA-SW37D-060221	06/13/2021 13:00	1	UX995987.D	DB-624 0.18(mm)
240-150601-5	MSA-SW38A-060221	06/13/2021 13:23	1	UX995988.D	DB-624 0.18(mm)
240-150601-6	MSA-SW38B-060221	06/13/2021 13:45	1	UX995989.D	DB-624 0.18(mm)
240-150601-7	MSA-SW38C-060221	06/13/2021 14:08	1	UX995990.D	DB-624 0.18(mm)
240-150601-8	MSA-SW38D-060221	06/13/2021 14:31	1	UX995991.D	DB-624 0.18(mm)
240-150601-9	MSA-SW40A-060221	06/13/2021 14:53	1	UX995992.D	DB-624 0.18(mm)
240-150601-10	MSA-SW40B-060221	06/13/2021 15:16	1	UX995993.D	DB-624 0.18(mm)
240-150601-11	MSA-SW40C-060221	06/13/2021 15:39	1	UX995994.D	DB-624 0.18(mm)
240-150601-12	MSA-SW40D-060221	06/13/2021 16:01	1	UX995995.D	DB-624 0.18(mm)
240-150601-13	MSA-SW41A-060221	06/13/2021 16:24	1	UX995996.D	DB-624 0.18(mm)
240-150601-14	MSA-SW41B-060221	06/13/2021 16:46	1	UX995997.D	DB-624 0.18(mm)
240-150601-15	MSA-SW41C-060221	06/13/2021 17:09	1	UX995998.D	DB-624 0.18(mm)
240-150601-16	MSA-SW41D-060221	06/13/2021 17:31	1	UX995999.D	DB-624 0.18(mm)
240-150601-17	MSA-SW42A-060221	06/13/2021 17:54	1	UX996000.D	DB-624 0.18(mm)
240-150601-18	MSA-SW42B-060221	06/13/2021 18:17	1	UX996001.D	DB-624 0.18(mm)
240-150601-19	MSA-SW42C-060221	06/13/2021 18:39	1	UX996002.D	DB-624 0.18(mm)
240-150601-20	MSA-SW42D-060221	06/13/2021 19:02	1	UX996003.D	DB-624 0.18(mm)
240-150601-21	MSA-SW43A-060221	06/13/2021 19:25	1	UX996004.D	DB-624 0.18(mm)
240-150601-22	MSA-SW43B-060221	06/13/2021 19:47	1	UX996005.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 06/14/2021 09:55

Analysis Batch Number: 490456 End Date: 06/14/2021 21:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-490456/1		06/14/2021 09:55	1	BFB6721.D	DB-624 0.18(mm)
CCVIS 240-490456/3		06/14/2021 10:27	1	UXM37866.D	DB-624 0.18(mm)
CCV 240-490456/4		06/14/2021 10:52	1	UXM37867.D	DB-624 0.18(mm)
LCS 240-490456/5		06/14/2021 11:16	1	UXM37868.D	DB-624 0.18(mm)
MDLV 240-490456/6		06/14/2021 11:41	1		DB-624 0.18(mm)
MDLV 240-490456/7		06/14/2021 12:05	1		DB-624 0.18(mm)
MB 240-490456/8		06/14/2021 12:30	1	UXM37871.D	DB-624 0.18(mm)
ZZZZZ		06/14/2021 12:55	1		DB-624 0.18(mm)
ZZZZZ		06/14/2021 13:19	1		DB-624 0.18(mm)
ZZZZZ		06/14/2021 13:44	1		DB-624 0.18(mm)
240-150601-23	MSA-SW43C-060221	06/14/2021 14:08	1	UXM37875.D	DB-624 0.18(mm)
240-150601-24	MSA-43D-060221	06/14/2021 14:32	1	UXM37876.D	DB-624 0.18(mm)
240-150601-25	MSA-44A-060221	06/14/2021 14:57	1	UXM37877.D	DB-624 0.18(mm)
240-150601-26	MSA-44B-060221	06/14/2021 15:22	1	UXM37878.D	DB-624 0.18(mm)
240-150601-27	MSA-44C-060221	06/14/2021 15:46	1	UXM37879.D	DB-624 0.18(mm)
240-150601-28	MSA-44D-060221	06/14/2021 16:11	1	UXM37880.D	DB-624 0.18(mm)
240-150601-29	TB-060221	06/14/2021 16:35	1	UXM37881.D	DB-624 0.18(mm)
240-150601-30	MSA-SW46A-060221	06/14/2021 17:00	1	UXM37882.D	DB-624 0.18(mm)
240-150601-31	MSA-SW47A-060221	06/14/2021 17:25	1	UXM37883.D	DB-624 0.18(mm)
240-150601-32	MSA-SW48A-060221	06/14/2021 17:49	1	UXM37884.D	DB-624 0.18(mm)
240-150601-33	MSA-SW49A-060221	06/14/2021 18:14	1	UXM37885.D	DB-624 0.18(mm)
240-150601-34	EL-SW01A-060221	06/14/2021 18:38	1	UXM37886.D	DB-624 0.18(mm)
240-150601-35	EL-SW01B-060221	06/14/2021 19:03	1	UXM37887.D	DB-624 0.18(mm)
240-150601-36	EL-SW01C-060221	06/14/2021 19:27	1	UXM37888.D	DB-624 0.18(mm)
240-150601-37	EL-SW01D-060221	06/14/2021 19:52	1	UXM37889.D	DB-624 0.18(mm)
ZZZZZ		06/14/2021 20:16	1		DB-624 0.18(mm)
ZZZZZ		06/14/2021 20:40	80		DB-624 0.18(mm)
240-150799-B-2 MS		06/14/2021 21:05	80	UXM37892.D	DB-624 0.18(mm)
240-150799-B-2 MSD		06/14/2021 21:29	80	UXM37893.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 482539 Batch Start Date: 04/23/21 11:11 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 00008	vm50ss 00439	vm50ss_stk 00087	vmarolistdw 00389
BFB 240-482539/1		8260C		5 mL	5 mL				
STD8260 240-482539/9 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-482539/10 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-482539/11 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-482539/12		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-482539/13 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-482539/14 IC		8260C		5 mL	5 mL	2 uL	4 uL		4 uL
STD8260 240-482539/15 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-482539/16 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-482539/17		8260C		5 mL	5 mL	2 uL		2 uL	
STDA9 240-482539/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-482539/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-482539/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-482539/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-482539/24 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 482539 Batch Start Date: 04/23/21 11:11 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 00008	vm50ss 00439	vm50ss_stk 00087	vmarolistdw 00389
STDA9 240-482539/25 IC		8260C		5 mL	5 mL	2 uL			
ICV 240-482539/26		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasa9w 00317	VMFASAW 00371	vmfasgw 00404	vmfaspw 00395	vmra9w 00388
BFB 240-482539/1		8260C		1 uL					
STD8260 240-482539/9 IC		8260C							
STD8260 240-482539/10 IC		8260C							
STD8260 240-482539/11 IC		8260C							
ICIS 240-482539/12		8260C							
STD8260 240-482539/13 IC		8260C							
STD8260 240-482539/14 IC		8260C							
STD8260 240-482539/15 IC		8260C							
STD8260 240-482539/16 IC		8260C							
ICV 240-482539/17		8260C				16 uL	16 uL	16 uL	
STDA9 240-482539/20 IC		8260C							64 uL
STDA9 240-482539/21 IC		8260C							32 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 482539 Batch Start Date: 04/23/21 11:11 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasa9w 00317	VMFASAW 00371	vmfasgw 00404	vmfaspw 00395	vmra9w 00388
STDA9 240-482539/22 IC		8260C							16 uL
STDA9 240-482539/23 IC		8260C							8 uL
STDA9 240-482539/24 IC		8260C							0.8 uL
STDA9 240-482539/25 IC		8260C							0.4 uL
ICV 240-482539/26		8260C			16 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00382	vmrprimw 00432				
BFB 240-482539/1		8260C							
STD8260 240-482539/9 IC		8260C		64 uL	64 uL				
STD8260 240-482539/10 IC		8260C		48 uL	48 uL				
STD8260 240-482539/11 IC		8260C		32 uL	32 uL				
ICIS 240-482539/12		8260C		16 uL	16 uL				
STD8260 240-482539/13 IC		8260C		8 uL	8 uL				
STD8260 240-482539/14 IC		8260C		4 uL	4 uL				
STD8260 240-482539/15 IC		8260C		0.8 uL	0.8 uL				
STD8260 240-482539/16 IC		8260C		0.4 uL	0.4 uL				
ICV 240-482539/17		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 482539 Batch Start Date: 04/23/21 11:11 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00382	vmrprimw 00432				
STDA9 240-482539/20 IC		8260C							
STDA9 240-482539/21 IC		8260C							
STDA9 240-482539/22 IC		8260C							
STDA9 240-482539/23 IC		8260C							
STDA9 240-482539/24 IC		8260C							
STDA9 240-482539/25 IC		8260C							
ICV 240-482539/26		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 489711 Batch Start Date: 06/09/21 08:31 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 00008	vm50ss_stk 00087	vmarolistdw 00395
BFB 240-489711/2		8260C		5 mL	5 mL				
CCVIS 240-489711/3		8260C		5 mL	5 mL		2 uL	2.268 uL	16 uL
CCV 240-489711/4		8260C		5 mL	5 mL		2 uL		
LCS 240-489711/5		8260C		5 mL	5 mL		2 uL	2.268 uL	
MB 240-489711/8		8260C		5 mL	5 mL		2 uL	2.268 uL	
240-150601-B-1	MSA-SW37A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-2	MSA-SW37B-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150571-B-1 MS		8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150571-B-1 MSD		8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00027	vmfasaw 00377	vmfasgw 00410	vmfaspw 00401	vmra9w 00394	vmrgas 00387
BFB 240-489711/2		8260C		1 uL					
CCVIS 240-489711/3		8260C							16 uL
CCV 240-489711/4		8260C						16 uL	
LCS 240-489711/5		8260C			16 uL	16 uL	16 uL		
MB 240-489711/8		8260C							
240-150601-B-1	MSA-SW37A-060221	8260C	T						
240-150601-B-2	MSA-SW37B-060221	8260C	T						
240-150571-B-1 MS		8260C	T		16 uL	16 uL	16 uL		
240-150571-B-1 MSD		8260C	T		16 uL	16 uL	16 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00439					
BFB 240-489711/2		8260C							
CCVIS 240-489711/3		8260C		16 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 489711 Batch Start Date: 06/09/21 08:31 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00439					
CCV 240-489711/4		8260C							
LCS 240-489711/5		8260C							
MB 240-489711/8		8260C							
240-150601-B-1	MSA-SW37A-060221	8260C	T						
240-150601-B-2	MSA-SW37B-060221	8260C	T						
240-150571-B-1 MS		8260C	T						
240-150571-B-1 MSD		8260C	T						

Batch Notes	
pH Indicator ID	HC034840

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 489988 Batch Start Date: 06/10/21 10:18 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 00008	vm50ss 00444	VMAROLISTDW 00395	vmbfb 00027
BFB 240-489988/1		8260C		5 mL	5 mL				1 uL
STD8260 240-489988/8 IC		8260C		5 mL	5 mL	2 uL	0.4 uL	0.4 uL	
STD8260 240-489988/9 IC		8260C		5 mL	5 mL	2 uL	0.8 uL	0.8 uL	
STD8260 240-489988/10 IC		8260C		5 mL	5 mL	2 uL	8 uL	8 uL	
ICIS 240-489988/11		8260C		5 mL	5 mL	2 uL	16 uL	16 uL	
STD8260 240-489988/12 IC		8260C		5 mL	5 mL	2 uL	24 uL	24 uL	
STD8260 240-489988/13 IC		8260C		5 mL	5 mL	2 uL	32 uL	32 uL	
STD8260 240-489988/14 IC		8260C		5 mL	5 mL	2 uL	48 uL	48 uL	
ICV 240-489988/15		8260C		5 mL	5 mL	2 uL	16 uL		
STDA9 240-489988/18 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-489988/19 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-489988/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-489988/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-489988/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-489988/23 IC		8260C		5 mL	5 mL	2 uL			
ICV 240-489988/24		8260C		5 mL	5 mL	2 uL	16 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 489988 Batch Start Date: 06/10/21 10:18 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00322	vmfasaw 00377	vmfasgw 00410	VMFASPW 00401	vmra9w 00394	VMRGAS 00388
BFB 240-489988/1		8260C							
STD8260 240-489988/8 IC		8260C							0.4 uL
STD8260 240-489988/9 IC		8260C							0.8 uL
STD8260 240-489988/10 IC		8260C							8 uL
ICIS 240-489988/11		8260C							16 uL
STD8260 240-489988/12 IC		8260C							24 uL
STD8260 240-489988/13 IC		8260C							32 uL
STD8260 240-489988/14 IC		8260C							48 uL
ICV 240-489988/15		8260C			16 uL	16 uL	16 uL		
STDA9 240-489988/18 IC		8260C						0.4 uL	
STDA9 240-489988/19 IC		8260C						0.8 uL	
STDA9 240-489988/20 IC		8260C						8 uL	
STDA9 240-489988/21 IC		8260C						16 uL	
STDA9 240-489988/22 IC		8260C						32 uL	
STDA9 240-489988/23 IC		8260C						48 uL	
ICV 240-489988/24		8260C		16 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 489988 Batch Start Date: 06/10/21 10:18 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00439					
BFB 240-489988/1		8260C							
STD8260 240-489988/8 IC		8260C		0.4 uL					
STD8260 240-489988/9 IC		8260C		0.8 uL					
STD8260 240-489988/10 IC		8260C		8 uL					
ICIS 240-489988/11		8260C		16 uL					
STD8260 240-489988/12 IC		8260C		24 uL					
STD8260 240-489988/13 IC		8260C		32 uL					
STD8260 240-489988/14 IC		8260C		48 uL					
ICV 240-489988/15		8260C							
STDA9 240-489988/18 IC		8260C							
STDA9 240-489988/19 IC		8260C							
STDA9 240-489988/20 IC		8260C							
STDA9 240-489988/21 IC		8260C							
STDA9 240-489988/22 IC		8260C							
STDA9 240-489988/23 IC		8260C							
ICV 240-489988/24		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 489988 Batch Start Date: 06/10/21 10:18 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 490350 Batch Start Date: 06/13/21 09:29 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 00008	vm50ss 00444	vmarolistdw 00396
BFB 240-490350/1		8260C		5 mL	5 mL				
CCVIS 240-490350/4		8260C		5 mL	5 mL		2 uL	16 uL	16 uL
CCV 240-490350/5		8260C		5 mL	5 mL		2 uL	16 uL	
LCS 240-490350/6		8260C		5 mL	5 mL		2 uL	16 uL	
MB 240-490350/9		8260C		5 mL	5 mL		2 uL	16 uL	
LCSD 240-490350/10		8260C		5 mL	5 mL		2 uL	16 uL	
240-150601-B-3	MSA-SW37C-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-4	MSA-SW37D-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-5	MSA-SW38A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-6	MSA-SW38B-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-7	MSA-SW38C-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-8	MSA-SW38D-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-9	MSA-SW40A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-10	MSA-SW40B-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-11	MSA-SW40C-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-12	MSA-SW40D-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-13	MSA-SW41A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-14	MSA-SW41B-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-15	MSA-SW41C-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-16	MSA-SW41D-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-17	MSA-SW42A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-18	MSA-SW42B-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-19	MSA-SW42C-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-20	MSA-SW42D-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-21	MSA-SW43A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	
240-150601-B-22	MSA-SW43B-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	16 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00027	vmfasaw 00377	vmfasgw 00411	vmfaspw 00402	vmra9w 00394	VMRGAS 00388

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 490350 Batch Start Date: 06/13/21 09:29 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00027	vmfasaw 00377	vmfasgw 00411	vmfaspw 00402	vmra9w 00394	VMRGAS 00388
BFB 240-490350/1		8260C		1 uL					
CCVIS 240-490350/4		8260C							16 uL
CCV 240-490350/5		8260C						16 uL	
LCS 240-490350/6		8260C			16 uL	16 uL	16 uL		
MB 240-490350/9		8260C							
LCSD 240-490350/10		8260C			16 uL	16 uL	16 uL		
240-150601-B-3	MSA-SW37C-060221	8260C	T						
240-150601-B-4	MSA-SW37D-060221	8260C	T						
240-150601-B-5	MSA-SW38A-060221	8260C	T						
240-150601-B-6	MSA-SW38B-060221	8260C	T						
240-150601-B-7	MSA-SW38C-060221	8260C	T						
240-150601-B-8	MSA-SW38D-060221	8260C	T						
240-150601-B-9	MSA-SW40A-060221	8260C	T						
240-150601-B-10	MSA-SW40B-060221	8260C	T						
240-150601-B-11	MSA-SW40C-060221	8260C	T						
240-150601-B-12	MSA-SW40D-060221	8260C	T						
240-150601-B-13	MSA-SW41A-060221	8260C	T						
240-150601-B-14	MSA-SW41B-060221	8260C	T						
240-150601-B-15	MSA-SW41C-060221	8260C	T						
240-150601-B-16	MSA-SW41D-060221	8260C	T						
240-150601-B-17	MSA-SW42A-060221	8260C	T						
240-150601-B-18	MSA-SW42B-060221	8260C	T						
240-150601-B-19	MSA-SW42C-060221	8260C	T						
240-150601-B-20	MSA-SW42D-060221	8260C	T						
240-150601-B-21	MSA-SW43A-060221	8260C	T						
240-150601-B-22	MSA-SW43B-060221	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00439					

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 490350 Batch Start Date: 06/13/21 09:29 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00439					
BFB 240-490350/1		8260C							
CCVIS 240-490350/4		8260C		16 uL					
CCV 240-490350/5		8260C							
LCS 240-490350/6		8260C							
MB 240-490350/9		8260C							
LCSD 240-490350/10		8260C							
240-150601-B-3	MSA-SW37C-060221	8260C	T						
240-150601-B-4	MSA-SW37D-060221	8260C	T						
240-150601-B-5	MSA-SW38A-060221	8260C	T						
240-150601-B-6	MSA-SW38B-060221	8260C	T						
240-150601-B-7	MSA-SW38C-060221	8260C	T						
240-150601-B-8	MSA-SW38D-060221	8260C	T						
240-150601-B-9	MSA-SW40A-060221	8260C	T						
240-150601-B-10	MSA-SW40B-060221	8260C	T						
240-150601-B-11	MSA-SW40C-060221	8260C	T						
240-150601-B-12	MSA-SW40D-060221	8260C	T						
240-150601-B-13	MSA-SW41A-060221	8260C	T						
240-150601-B-14	MSA-SW41B-060221	8260C	T						
240-150601-B-15	MSA-SW41C-060221	8260C	T						
240-150601-B-16	MSA-SW41D-060221	8260C	T						
240-150601-B-17	MSA-SW42A-060221	8260C	T						
240-150601-B-18	MSA-SW42B-060221	8260C	T						
240-150601-B-19	MSA-SW42C-060221	8260C	T						
240-150601-B-20	MSA-SW42D-060221	8260C	T						
240-150601-B-21	MSA-SW43A-060221	8260C	T						
240-150601-B-22	MSA-SW43B-060221	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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 490350 Batch Start Date: 06/13/21 09:29 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Batch Notes	
pH Indicator ID	HC034840

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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 490456 Batch Start Date: 06/14/21 09:55 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 00008	vm50ss_stk 00087	vmarolistdw 00396
BFB 240-490456/1		8260C		5 mL	5 mL				
CCVIS 240-490456/3		8260C		5 mL	5 mL		2 uL	2.268 uL	16 uL
CCV 240-490456/4		8260C		5 mL	5 mL		2 uL		
LCS 240-490456/5		8260C		5 mL	5 mL		2 uL	2.268 uL	
MB 240-490456/8		8260C		5 mL	5 mL		2 uL	2.268 uL	
240-150601-B-23	MSA-SW43C-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-24	MSA-43D-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-C-25	MSA-44A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-26	MSA-44B-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-27	MSA-44C-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-28	MSA-44D-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-29	TB-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-30	MSA-SW46A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-31	MSA-SW47A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-32	MSA-SW48A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-33	MSA-SW49A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-34	EL-SW01A-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-35	EL-SW01B-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-36	EL-SW01C-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150601-B-37	EL-SW01D-060221	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150799-B-2 MS		8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	
240-150799-B-2 MSD		8260C	T	5 mL	5 mL	<2 SU	2 uL	2.268 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00027	vmfasaw 00377	vmfasgw 00412	VMFASPW 00402	vmra9w 00394	vmrgas 00388
BFB 240-490456/1		8260C		1 uL					
CCVIS 240-490456/3		8260C							16 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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 490456 Batch Start Date: 06/14/21 09:55 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00027	vmfasaw 00377	vmfasgw 00412	VMFASPW 00402	vmra9w 00394	vmrgas 00388
CCV 240-490456/4		8260C						16 uL	
LCS 240-490456/5		8260C			16 uL	16 uL	16 uL		
MB 240-490456/8		8260C							
240-150601-B-23	MSA-SW43C-060221	8260C	T						
240-150601-B-24	MSA-43D-060221	8260C	T						
240-150601-C-25	MSA-44A-060221	8260C	T						
240-150601-B-26	MSA-44B-060221	8260C	T						
240-150601-B-27	MSA-44C-060221	8260C	T						
240-150601-B-28	MSA-44D-060221	8260C	T						
240-150601-B-29	TB-060221	8260C	T						
240-150601-B-30	MSA-SW46A-060221	8260C	T						
240-150601-B-31	MSA-SW47A-060221	8260C	T						
240-150601-B-32	MSA-SW48A-060221	8260C	T						
240-150601-B-33	MSA-SW49A-060221	8260C	T						
240-150601-B-34	EL-SW01A-060221	8260C	T						
240-150601-B-35	EL-SW01B-060221	8260C	T						
240-150601-B-36	EL-SW01C-060221	8260C	T						
240-150601-B-37	EL-SW01D-060221	8260C	T						
240-150799-B-2 MS		8260C	T		16 uL	16 uL	16 uL		
240-150799-B-2 MSD		8260C	T		16 uL	16 uL	16 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00439					
BFB 240-490456/1		8260C							
CCVIS 240-490456/3		8260C		16 uL					
CCV 240-490456/4		8260C							
LCS 240-490456/5		8260C							
MB 240-490456/8		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.: 240-150601-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 490456 Batch Start Date: 06/14/21 09:55 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00439					
240-150601-B-23	MSA-SW43C-060221	8260C	T						
240-150601-B-24	MSA-43D-060221	8260C	T						
240-150601-C-25	MSA-44A-060221	8260C	T						
240-150601-B-26	MSA-44B-060221	8260C	T						
240-150601-B-27	MSA-44C-060221	8260C	T						
240-150601-B-28	MSA-44D-060221	8260C	T						
240-150601-B-29	TB-060221	8260C	T						
240-150601-B-30	MSA-SW46A-060221	8260C	T						
240-150601-B-31	MSA-SW47A-060221	8260C	T						
240-150601-B-32	MSA-SW48A-060221	8260C	T						
240-150601-B-33	MSA-SW49A-060221	8260C	T						
240-150601-B-34	EL-SW01A-060221	8260C	T						
240-150601-B-35	EL-SW01B-060221	8260C	T						
240-150601-B-36	EL-SW01C-060221	8260C	T						
240-150601-B-37	EL-SW01D-060221	8260C	T						
240-150799-B-2 MS		8260C	T						
240-150799-B-2 MSD		8260C	T						

Batch Notes	
pH Indicator ID	HC034840

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

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Baltimore #201

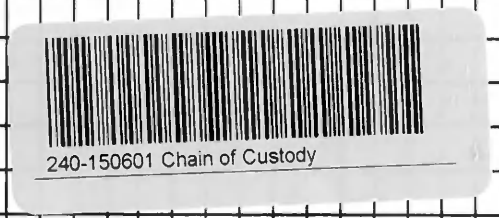
Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 6/2/2021	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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			
PO #1179752, 112IC09343	☐ 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-060221	6/2/2021	1129	SW	Water	3		x	
MSA-SW37B-060221	6/2/2021	1134	SW	Water	3		x	
MSA-SW37C-060221	6/2/2021	1138	SW	Water	3		x	
MSA-SW37D-060221	6/2/2021	1143	SW	Water	3		x	
MSA-SW38A-060221	6/2/2021	1023	SW	Water	3		x	
MSA-SW38B-060221	6/2/2021	1028	SW	Water	3		x	
MSA-SW38C-060221	6/2/2021	1034	SW	Water	3		x	
MSA-SW38D-060221	6/2/2021	1037	SW	Water	3		x	
MSA-SW40A-060221	6/2/2021	1047	SW	Water	3		x	
MSA-SW40B-060221	6/2/2021	1050	SW	Water	3		x	
MSA-SW40C-060221	6/2/2021	1054	SW	Water	3		x	
MSA-SW40D-060221	6/2/2021	1100	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:

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by: Nick Emm	Company: Tetra Tech	Date/Time: 6/2/21 4pm	Received by:	Company: FEDEX	Date/Time: 6/2/21 16:00
Relinquished by:	Company: 6/2/21 17:00	Date/Time: TETA	Received by:	Company: FEDEX	Date/Time: 6-3-21 945
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

06/10/2021

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Baltimore
#201

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 6/2/2021	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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			
PO #1179752, 112IC09343	☐ 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-060221	6/2/2021	1000	SW	Water	3		x	
MSA-SW41B-060221	6/2/2021	1003	SW	Water	3		x	
MSA-SW41C-060221	6/2/2021	1009	SW	Water	3		x	
MSA-SW41D-060221	6/2/2021	1014	SW	Water	3		x	
MSA-SW42A-060221	6/2/2021	1107	SW	Water	3		x	
MSA-SW42B-060221	6/2/2021	1111	SW	Water	3		x	
MSA-SW42C-060221	6/2/2021	1118	SW	Water	3		x	
MSA-SW42D-060221	6/2/2021	1124	SW	Water	3		x	
MSA-SW43A-060221	6/2/2021	0932	SW	Water	3		x	
MSA-SW43B-060221	6/2/2021	0936	SW	Water	3		x	
MSA-SW43C-060221	6/2/2021	0943	SW	Water	3		x	
MSA-SW43D-060221	6/2/2021	0946	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: Nick Emm	Company: Tetra Tech	Date/Time: 6/2/21 4pm	Received by:	Company: FTC Gulf	Date/Time: 6/2/21 16:10
Relinquished by:	Company: 6/7/21 17:00	Date/Time:	Received by:	Company: ZTA	Date/Time: 6-3-21 945
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Baltimore #201

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 6/2/2021	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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			
PO #1179752, 112IC09343	☐ 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-060221	6/2/2021	0914	SW	Water	3		x	
MSA-SW44B-060221	6/2/2021	0917	SW	Water	3		x	
MSA-SW44C-060221	6/2/2021	0922	SW	Water	3		x	
MSA-SW44D-060221	6/2/2021	0927	SW	Water	3		x	
TB-060221	6/2/2021	0000	SW	Water	2		x	
MSA-SW46A-060221	6/2/2021	1102	SW	Water	3		x	
MSA-SW47A-060221	6/2/2021	1043	SW	Water	3		x	
MSA-SW48A-060221	6/2/2021	1016	SW	Water	3		x	
MSA-SW49A-060221	6/2/2021	0952	SW	Water	3		x	
EL-SW01A-060221	6/2/2021	0817	SW	Water	3		x	
EL-SW01B-060221	6/2/2021	0853	SW	Water	3		x	
EL-SW01C-060221	6/2/2021	0857	SW	Water	3		x	
EL-SW01D-060221	6/2/2021	0903	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:
[signature] Nick Emm	TETRA TECH	6/2/21 4pm	[signature]	6/2/21 16:00	TETRA [signature]
[signature]	6/2/21 17:00	ETA [signature]	[signature]	ETA	6-3-21 ETA

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 150601
Canton Facility

Client Tetra Tech Inc Site Name _____ Cooler unpacked by: Trent C

Cooler Received on 6-3-21 Opened on 6-3-21

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA 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-11 (CF **+0.1** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

IR GUN #IR-12 (CF **+0.2**°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°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)?	(Y)	
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# **HC022887**
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 # 022620IF	(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: _____

Login # : 150601

Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	**IR Gun # (Circle)**	**Observed Temp °C**	**Corrected Temp °C**	**Coolant (Circle)**
(TA) Client Box Other	(IR-11) IR-12	4.5	4.6	(Wet Ice) Blue Ice Dry Ice Water None
(TA) Client Box Other	(IR-11) IR-12	3.8	3.9	(Wet Ice) Blue Ice Dry Ice Water None
(TA) Client Box Other	(IR-11) IR-12	2.3	2.4	(Wet Ice) Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice

APPENDIX C—CHEMICAL-RESULTS DATA TABLE

LOCATION	EL-SW01A	EL-SW01B
SAMPLE ID	EL-SW01A-060221	EL-SW01B-060221
SAMPLE DATE	20210602	20210602
VOLATILES (UG/L)		
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U
2-HEXANONE	0.54 UJ	0.54 UJ
4-CHLOROTOLUENE	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 UJ	0.42 UJ
ACETONE	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U

DICHLORODIFLUOROMETHANE	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U

J - estimated concentration
U - not detected
R - rejected data (unusable because lab criteria not met)

EL-SW01C EL-SW01C-060221 20210602	EL-SW01D EL-SW01D-060221 20210602	MSA-SW37A MSA-SW37A-060221 20210602	MSA-SW37B MSA-SW37B-060221 20210602	MSA-SW37C MSA-SW37C-060221 20210602
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 UJ	0.24 UJ	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
0.91 U	0.91 U	0.91 UJ	0.91 UJ	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 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
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 UJ	0.31 UJ	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 UJ	0.76 UJ	0.76 U
0.42 U	0.42 U	0.42 UJ	0.42 UJ	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 UJ	0.39 UJ	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 U	0.83 U	0.83 U	0.83 U	0.83 UJ
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 UJ
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.35 U	0.35 U	0.35 U	0.35 U	0.35 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
0.07 U	0.07 U	0.07 UJ	0.07 UJ	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 UJ	1.7 UJ	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.14 U	0.14 U	0.18 J	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 UJ	0.67 UJ	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 U	0.45 U	0.45 U	0.45 U	0.45 UJ
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ

MSA-SW37D MSA-SW37D-060221 20210602	MSA-SW38A MSA-SW38A-060221 20210602	MSA-SW38B MSA-SW38B-060221 20210602	MSA-SW38C MSA-SW38C-060221 20210602	MSA-SW38D MSA-SW38D-060221 20210602
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 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
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ

MSA-SW40A MSA-SW40A-060221 20210602	MSA-SW40B MSA-SW40B-060221 20210602	MSA-SW40C MSA-SW40C-060221 20210602	MSA-SW40D MSA-SW40D-060221 20210602	MSA-SW41A MSA-SW41A-060221 20210602
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 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
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ

MSA-SW41B MSA-SW41B-060221 20210602	MSA-SW41C MSA-SW41C-060221 20210602	MSA-SW41D MSA-SW41D-060221 20210602	MSA-SW42A MSA-SW42A-060221 20210602	MSA-SW42B MSA-SW42B-060221 20210602
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 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
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.11 J	0.08 U	0.08 U	0.11 J	0.08 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 J	0.14 U	0.14 U	0.15 J	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ

MSA-SW42C MSA-SW42C-060221 20210602	MSA-SW42D MSA-SW42D-060221 20210602	MSA-SW43A MSA-SW43A-060221 20210602	MSA-SW43B MSA-SW43B-060221 20210602	MSA-SW43C MSA-SW43C-060221 20210602
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 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
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 UJ
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 UJ
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.08 U	0.08 U	0.08 U	0.098 J	0.08 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.14 U	0.14 U	0.14 U	0.16 J	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 U

MSA-SW43D MSA-SW43D-060221 20210602	MSA-SW44A MSA-SW44A-060221 20210602	MSA-SW44B MSA-SW44B-060221 20210602	MSA-SW44C MSA-SW44C-060221 20210602	MSA-SW44D MSA-SW44D-060221 20210602
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 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
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

MSA-SW46A MSA-SW46A-060221 20210602	MSA-SW47A MSA-SW47A-060221 20210602	MSA-SW48A MSA-SW48A-060221 20210602	MSA-SW49A MSA-SW49A-060221 20210602
0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U
0.41 U	0.41 U	0.41 U	0.41 U
0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.07 U
0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 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
0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U
0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U
0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ
0.83 U	0.83 U	0.83 U	0.83 U
0.13 U	0.13 U	0.13 U	0.13 U
0.2 U	0.2 U	0.2 U	0.2 U
0.16 U	0.16 U	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U

0.35 U	0.35 U	0.35 U	0.35 U
0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U
0.08 U	0.08 U	0.08 U	0.08 U
0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U
0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U
0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U
0.45 U	0.45 U	0.45 U	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U
0.2 U	0.2 U	0.2 U	0.2 U