Lockheed Martin Corporation
6801 Rockledge Drive MP: CCT-246
Bethesda, MD 20817
Telephone 301-548-2209

December 7, 2022

VIA EMAIL AND PRIVATE CARRIER

Anuradha Mohanty
Land and Materials Administration
Maryland Department of the Environment
1800 Washington Boulevard, Suite: 625
Baltimore, Maryland 21230

Subject: Transmittal of the Technical Memorandum: July 2022 Surface Water Sampling Results for Frog Mortar Creek Response to Comments/Changes Pages
Martin State Airport, 701 Wilson Point Road
Middle River, Maryland

Dear Ms. Mohanty,

For your information, please find enclosed two hard copies of the above-referenced document.

- Response to Technical Review Comments from Maryland Aviation Administration
- CD included with update to Appendix C

If you have any questions or require any additional information please contact me by phone at 301-964-2482, or via e-mail at anthony.c.apanavage@lmco.com.

Sincerely,

Anthony Apanavage
Project Lead
Environmental Remediation Principal Lockheed Martin Corporation

cc: (via email without enclosure)
Brian Dietz, MDE
Christine Kline, Lockheed Martin
Mary Morningstar, Lockheed
Michael Martin, Tetra Tech
Peter Shilland, CDM Smith

cc: (via Box)
Remediation Records Coordinator, Lockheed Martin

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

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

Maryland Aviation Administration
Martin State Airport

Review Comments with embedded Responses to Comments

November 2022, Technical Memorandum: July 2022 Surface Water Sampling Results for Frog Mortar Creek, Lockheed Martin, Martin State Airport

1. **Appendix C – Chemical Results Data Table:** This table appears to have formatting issues. The columns throughout the table are cut off and are mostly illegible.

Response: The table has been reformatted

Lockheed Martin Corporation
6801 Rockledge Drive MP: CCT-246
Bethesda, MD 20817
Telephone 301-548-2209

November 8, 2022

VIA EMAIL AND PRIVATE CARRIER

Anuradha Mohanty
Land and Materials Administration
Maryland Department of the Environment
1800 Washington Boulevard, Suite: 625
Baltimore, Maryland 21230

Subject: Transmittal of the Technical Memorandum: July 2022 Surface Water Sampling Results for Frog Mortar Creek
Martin State Airport, 701 Wilson Point Road
Middle River, Maryland

Dear Ms. Mohanty,

For your information, please find enclosed two hard copies of the above-referenced document. This technical memorandum presents the July 2022 sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area Martin State Airport at Martin State Airport in Middle River, Maryland.

If you have any questions or require any additional information please contact me by phone at 301-964-2482, or via e-mail at anthony.c.apanavage@lmco.com.

Sincerely,

Anthony Apanavage
Project Lead
Environmental Remediation Principal Lockheed Martin Corporation

cc: (via email without enclosure)
Brian Dietz, MDE
Christine Kline, Lockheed Martin
Mary Morningstar, Lockheed
Michael Martin, Tetra Tech
Peter Shilland, CDM Smith

cc: (via Box)
Remediation Records Coordinator, Lockheed Martin

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

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

TECHNICAL MEMORANDUM: JULY 2022 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.

November 2022

Approved by:

Revision: 0

Michael Martin, P.G.
Regional Manager

Josh Mullis
Project Scientist

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

APPENDICES

ACRONYMS AND ABBREVIATIONS

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 July 2022 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 *2022 Frog Mortar Creek Surface Water Sampling Work Plan* (Tetra Tech, 2022a). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on July 6, 2022.

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 DRA soil, pond sediment, and groundwater have been impacted by VOCs, SVOCs, and metals resulting from historical dumping and backfilling. The following constituents (including several metals) have been detected in DRA groundwater at concentrations exceeding state groundwater standards:

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

Frog Mortar Creek is hydraulically downgradient of and receives groundwater discharging from the DRA. The constituents listed above have been detected in surface water samples collected from Frog Mortar Creek. Surface water samples have been collected from Frog Mortar Creek since 1997, and multiple rounds of samples have been collected annually since 2010. Studies at Frog Mortar Creek from 1997–2021, 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 *2021 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2022b), 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 July 2022 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 July 2022 sampling is the second of four surface-water sampling rounds planned for 2022, and assessed water quality during the swimming season, when increased recreational use of Frog Mortar Creek is expected.

Note that in the discussion below, all sampling locations share the "MSA-" prefix (e.g., "SW39" refers to transect MSA-SW39). This prefix is not included in the text below to increase readability.

3.1 SURFACE WATER SAMPLING

3.1.1 Surface Water Sampling and Chemical Analyses

Twenty-eight surface water samples were collected from Frog Mortar Creek adjacent to the DRA site on July 6, 2022. Sampling locations are shown in Figure 3-1. Four samples were collected along each of six transects spaced approximately 350 feet apart along the western shoreline of the

creek; these transects are designated SW37, SW38, SW40, SW41, SW42, and SW43. Four additional western-shore samples (SW46A, SW47A, SW48A, and SW49A) were collected at near-shore locations between transects SW42 and SW40, SW40 and SW38, SW38 and SW41, and SW41 and SW43 (respectively) for a total of 28 surface water samples.

Historically, the northernmost transect (SW39) and the southernmost transect (SW45) in Frog Mortar Creek were also sampled until 2020, when they were removed from the sampling program. These transects were north of the northernmost (SW37) and south of the southernmost (SW43) transects sampled this round (Figure 3-1) . Sampling of southern transect SW44 and the Edwards Lane transect (located on the eastern shore of Frog Mortar Creek) was discontinued after 2021. These locations were removed from the sampling program, with Maryland Department of the Environment (MDE) approval, because cVOCs and other analytes of concern had been nondetect in surface water samples collected from these transects for several years, and because the remaining transects cover the extent of the groundwater contaminant plume emanating from the DRA.

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 six western shoreline transects (MSA-SW37, SW38, SW40, SW41, SW42, and SW43), and SW46A through SW49A 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 sampling program in 2020. 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 (0.76 meters [2.5 feet] at 0751 hours) and after sampling (0.82 meters [2.7 feet] at 0951 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.

In accordance with the approved work plan (Tetra Tech, 2022a), 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. One equipment blank sample was also collected (from the discrete-interval sampler) for VOC analysis using laboratory supplied deionized water, per the quality assurance project plan (Tetra Tech, 2021).

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. July 2022 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 "MSASW" 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 July 6, 2022 from MSA-SW37A is labeled "MSA-SW37A-070622." The trip blank is labeled with a "TB" prefix followed by the six-digit submittal date (e.g., TB-070622). The equipment blank is similarly labeled with a prefix of "MSA-SWEQB" followed by the six-digit sampling date.

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, 2020) 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 July 2022 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. All flags appear in Appendices B and C:

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

Samples collected from the locations shown on Figure 3-1 were analyzed for volatile organic compounds (VOCs), including fuel-related compounds such as benzene, toluene, ethylbenzene, and xylenes (BTEX) and tentatively identified compounds (TICs). However, no volatile organic compounds (VOCs) were detected in the surface water samples collected from Frog Mortar Creek in July 2022. When VOCs were historically detected, validated chemical data from the Frog Mortar Creek surface water samples were used to generate a statistical summary table and a table summarizing positive detections of chemical analytes, but, since no VOCs were detected, only a comparison table (Table 4-1) was generated for this reporting period. Table 4-1 compares trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC) results from the current sampling round (July 2022) to the sampling results from the previous sampling round (March 2022), and to results from last year (July 2021).

When historically detected, surface-water sampling results in previous sampling rounds were compared 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

Nondetect results were reported for the trip blank during this July 2022 sampling event. Hexachlorobutadiene (1.19 µg/L) was detected in the laboratory method blank; no action was taken as hexachlorobutadiene was not detected in the affected samples. A low concentration of chloroform (1.8 µg/L) was detected in the equipment blank collected per the approved work plan (Tetra Tech, 2022a); no action was taken because chloroform was not detected in associated samples. Since all VOC samples were acid-preserved, 2-chloroethyl vinyl ether could not be reliably recovered and results for this analyte were qualified as rejected (UR). Percent differences measured during VOC continuing calibration performed on laboratory instruments exceeded quality control limits and affected several samples; nondetect results for these affected samples and analytes were qualified as estimated (UJ). These issues are described as minor in the data validation report, and the data generated for this July 2022 sampling episode are acceptable for their intended use.

4.2.1 Trichloroethene Results

As indicated on Table 4-1, TCE was not detected at all sampled locations in July 2022, March 2022, and July 2021. These results are consistent with the decreasing trend of TCE observed in Frog Mortar Creek since the groundwater treatment system began operation. TCE was last detected at SW49A (0.71 micrograms per liter [µg/L]) in March 2021; the detected concentration was more than one order of magnitude (10 times) lower than the lowest screening

level for TCE, the MDE-approved site-specific screening level for swimming (10 µ/L). This March 2021 TCE detection was the only round in which TCE was detected in 2021. When detected in previous rounds, TCE tended to decrease with increasing distance from the shore.

4.2.2 *cis*-1,2-Dichloroethene Results

cis-1,2-DCE was also not detected at all sampled locations in July 2022, March 2022, and in July 2021 (Table 4-1). *cis*-1,2-DCE was last detected in March 2021, at 16 of 32 (or 50%) of sampled locations, but at concentrations below its lowest (site-specific swimming) screening level (300 µg/L), ranging from 0.16 µg/L (SW43B) to 2.2 µg/L (SW49A). 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, as observed at transect SW42 in March 2021, with concentrations of 1.4 µg/L (SW42A), 0.55 µg/L (SW42B), 0.55 µg/L (SW42C), and 0.31 µg/L (SW42D). The July 2022 results are consistent with the decreasing trend of *cis*-1,2-DCE observed in Frog Mortar Creek since the groundwater treatment system began operation.

4.2.3 Vinyl Chloride Results

VC was not detected at any sampled locations in July 2022, March 2022, or July 2021. VC was last detected in December 2021, at four locations ranging from 1 µg/L (SW42C) to 2.4 µg/L (SW46A); all four concentrations were above the site-specific swimming screening level of 0.7 µg/L. When detected in previous rounds, VC distributions in the higher concentration transects tended to decrease with increasing distance from the shore, as occurred in December 2021 in transect SW42, at SW42A (1.9 µg/L), SW42B (1.2 µg/L) and SW42C (1 µg/L).

4.2.4 Tentatively Identified Compound Results

A tentatively identified compounds (TIC) search was performed for the analyte chlorodifluoromethane, but it was not detected above the reporting limit (1 µg/L) in any of the samples analyzed.

SECTION 5
SUMMARY

The Lockheed Martin Corporation July 2022 Frog Mortar Creek surface-water investigation results are summarized below:

- Twenty-eight surface water samples were collected on July 6, 2022, 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 six transects spaced approximately 350 feet apart (for a total of 24 samples) along the western shoreline of Frog Mortar Creek. Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). In addition to the samples collected along transects, four single point shoreline samples were collected, including SW46A (between transects SW42 and SW40), SW47A (between transects SW40 and SW38), SW48A (between transects SW38 and SW41), and SW49A (between transects SW41 and SW43), for a total of 28 samples.
- Samples collected in July 2022 from Frog Mortar Creek were analyzed for volatile organic compounds (VOCs) by USEPA SW846 Method 8260C.
- 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, 2020), 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 samples collected during the July 2022 sampling round.

- No other volatile organic compounds were detected in July 2022.
- The next surface water sampling event will occur in August 2022.

SECTION 6
REFERENCES

Code of Maryland Regulations (COMAR), 2016. "Numerical Criteria for Toxic Substances in Surface Waters." COMAR Title 26, Subtitle 08, Chapter 02, Regulation 03. http://www.dsd.state.md.us/comar/comarhtml/26/26.08.02.03-2.htm.

Maryland Aviation Administration (MAA), 2018. Martin State Airport Website: http://www.martinstateairport.com/index.php.

National Oceanic and Atmospheric Administration (NOAA), 2015. *Exceedance Probability Level and Tide Datums, 8574680, Baltimore, Maryland.* Mean-high high-water (MHHW) and mean-low low-water (MLLW) measurements near Baltimore, Maryland, 1983–2001:Exceedance Probability Levels and Tidal Datums - Baltimore, MD - NOAA Tides & Currents.

National Oceanic and Atmospheric Administration (NOAA), 2016. National Centers for Environmental Information, Washington, D.C., *State of the Climate Reports:* https://www.ncdc.noaa.gov/sotc/drought/201608 or https://www.ncdc.noaa.gov/sotc/drought/201609.

Tetra Tech, Inc. (Tetra Tech), 2009. *Frog Mortar Creek Surface Water and Sediment Investigation Report Phases I, II, and III, Lockheed Martin, Martin State Airport, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. May.

Tetra Tech, Inc. (Tetra Tech), 2012. *2011 Surface Water Sampling Report, Frog Mortar Creek, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. March.

Tetra Tech, Inc. (Tetra Tech), 2018. *2017 Surface Water Sampling Report for Frog Mortar Creek, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. March.

Tetra Tech, Inc. (Tetra Tech), 2021. *Quality Assurance Project Plan, 2022 Groundwater and Surface Water Monitoring, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. September.

Tetra Tech, Inc. (Tetra Tech), 2022a. *2022 Surface Water Sampling Work Plan for Frog Mortar Creek, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. February.

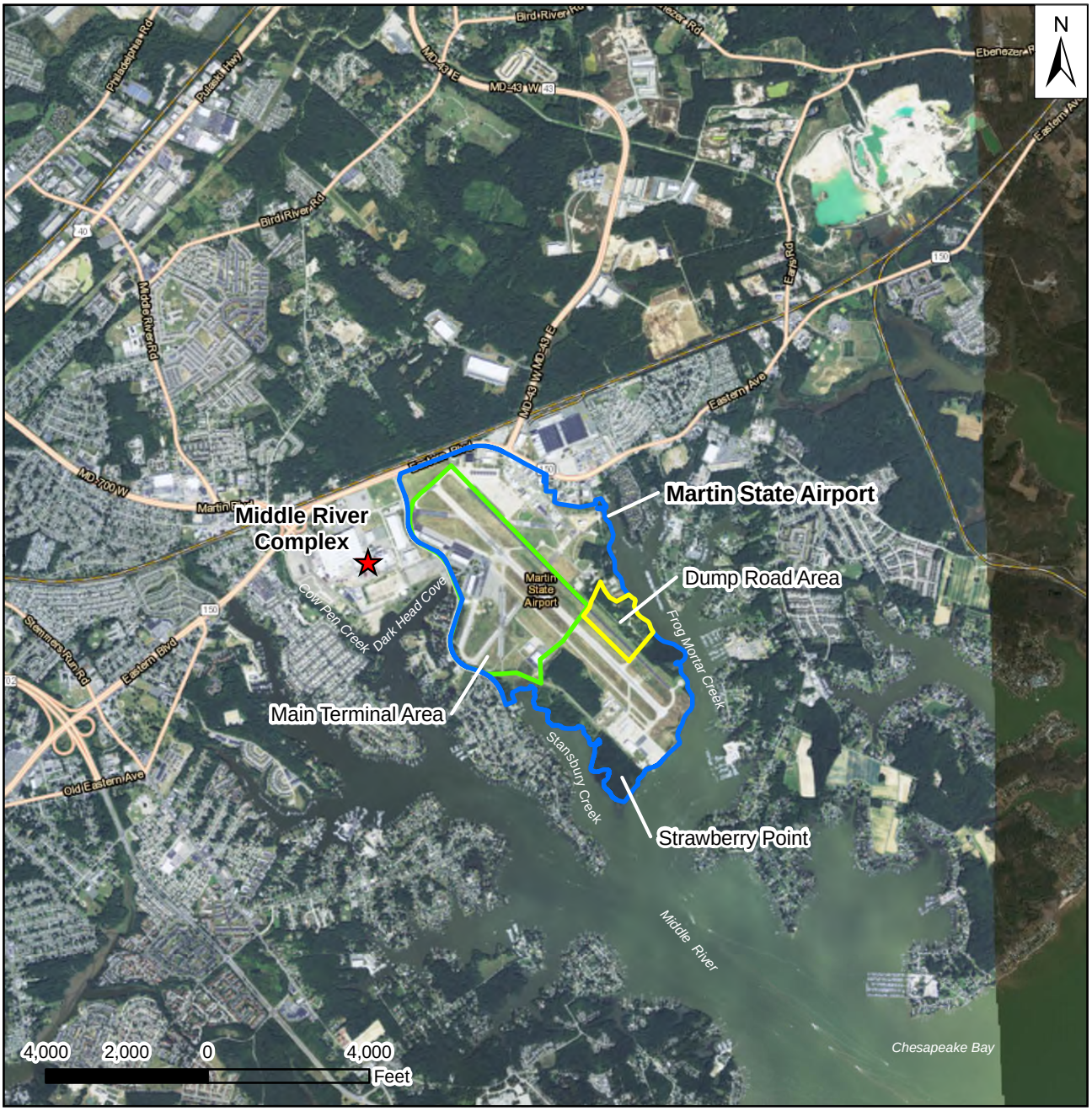
Tetra Tech, Inc. (Tetra Tech), 2022b. *2021 Surface Water Sampling Report for Frog Mortar Creek, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. April.

United States Environmental Protection Agency (USEPA) 2006. *Region III Biological Technical Advisory Group Freshwater Screening Benchmarks*. August.

United States Environmental Protection Agency (USEPA), 2020. *National Functional Guidelines for Organic Superfund Methods Data Review.* OLEM 9240.0-51. EPA 540-R-20-005. November.

United States Environmental Protection Agency (USEPA), 2019. *National Recommended Water Quality Criteria: 2019*. U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology. October.

FIGURES



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

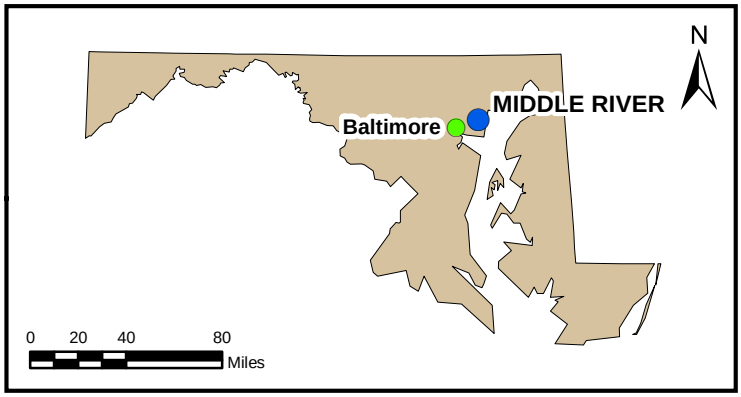


FIGURE 1-1

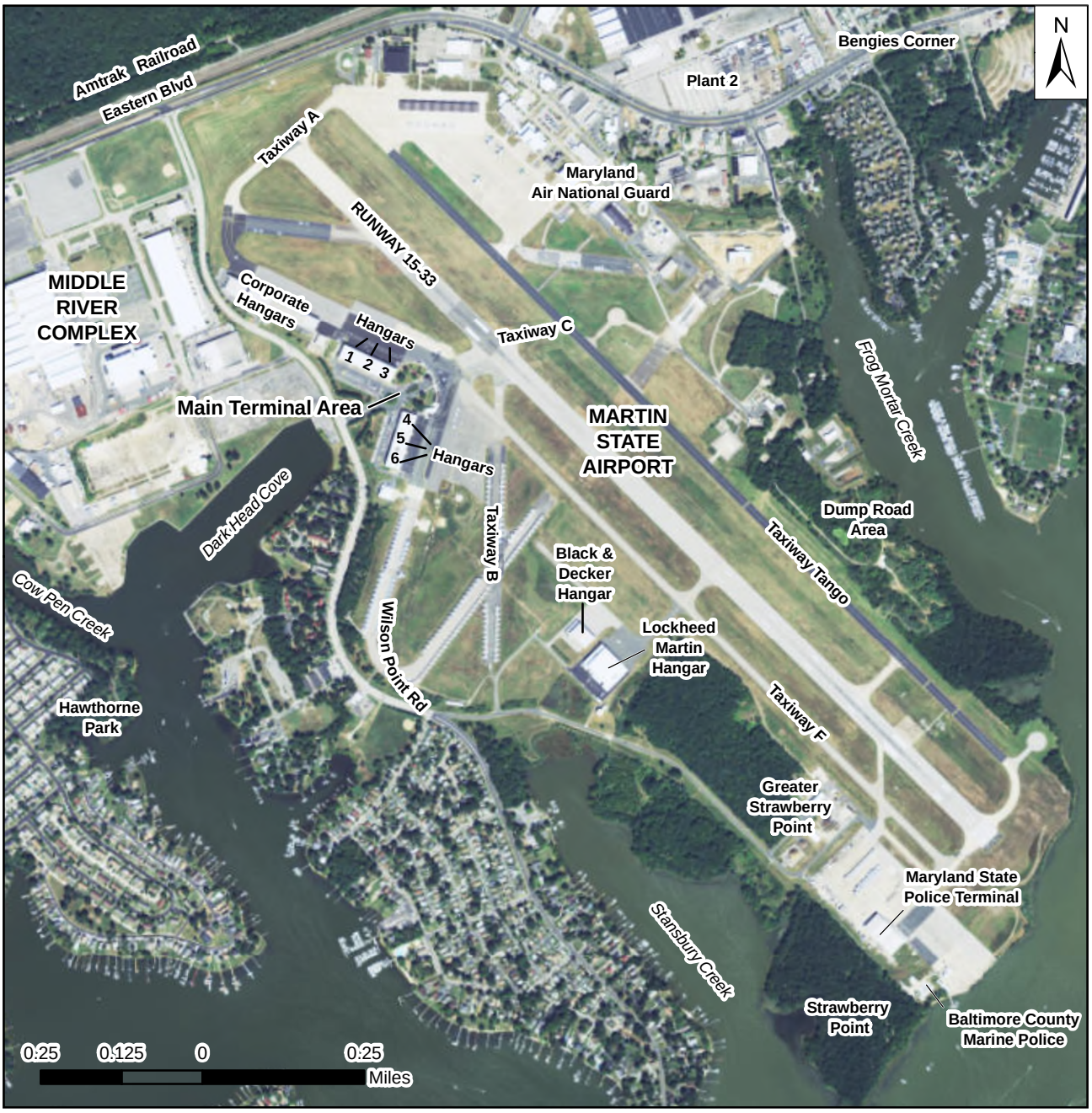
MARTIN STATE AIRPORT
SITE LOCATION MAP

Lockheed Martin, Martin State Airport
Middle River, Maryland

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

TETRA TECH

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



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

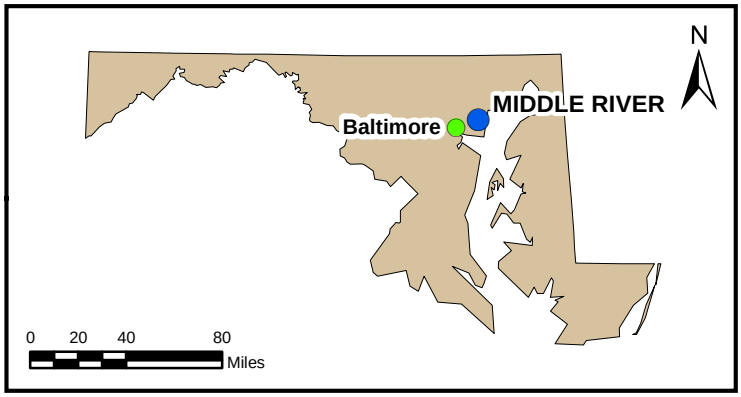


FIGURE 2-1

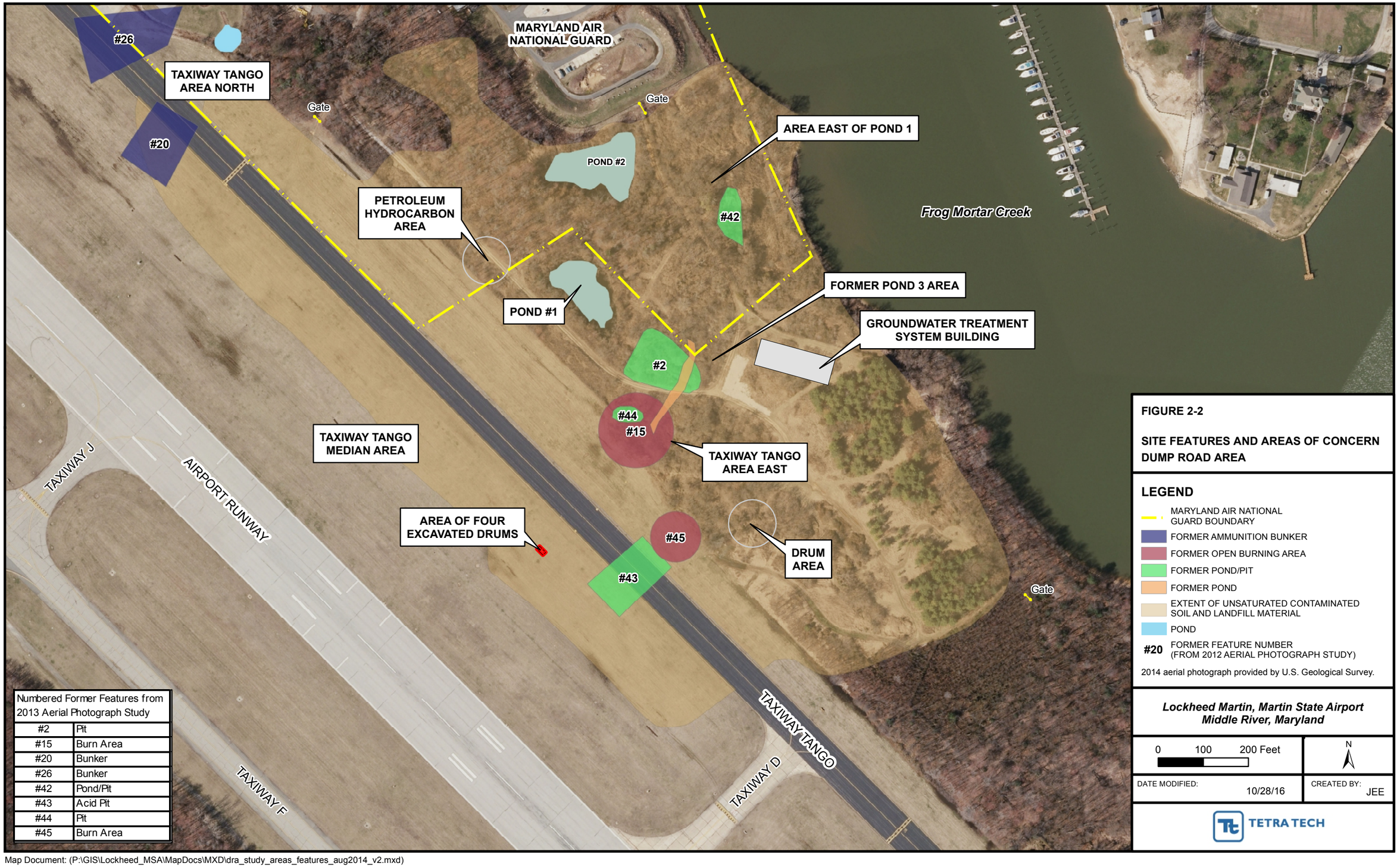
MARTIN STATE AIRPORT AND SURROUNDING FEATURES

Lockheed Martin, Martin State Airport
Middle River, Maryland

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

TETRA TECH

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



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

FIGURE 2-2

SITE FEATURES AND AREAS OF CONCERN DUMP ROAD AREA

LEGEND

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

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

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 100 200 Feet

N

DATE MODIFIED: 10/28/16

CREATED BY: JEE

TETRA TECH

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

FIGURE 3-1

2022 SURFACE WATER SAMPLING LOCATIONS, FROG MORTAR CREEK

LEGEND

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

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

DATE MODIFIED: 06/15/22

EDITTED BY: LMW

TETRA TECH

Map Document: (K:\Patrick\GIS\Lockheed_MSA\MapDocs\MXDs\fmc_sw_samplocs_prop2022.mxd)
09/03/21 -- PFO

TABLES

Table 3-1 List of Samples and Chemical Analyses for Surface Water—July 2022

Table 4-1 Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the July 2021, March 2022, and July 2022 Sampling Rounds

Table 3-1
List of Samples and Chemical Analyses for Surface Water—July 2022
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-SW46	✓
MSA-SW47	✓
MSA-SW48	✓
MSA-SW49	✓

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.

mL – milliliter

USEPA – United States Environmental Protection Agency

Table 4-1
Comparison of Primary Volatile Organic Compounds Detected in Surface Water in the July 2021, March 2022, and July 2022 Sampling Rounds
Frog Mortar Creek, Middle River, Maryland

Location ID	Trichloroethene concentrations (µg/L)			*cis* -1,2-Dichloroethene concentrations (µg/L)			Vinyl chloride concentrations (µg/L)		
	July 15, 2021	March 11, 2022	July 6, 2022	July 15, 2021	March 11, 2022	July 6, 2022	July 15, 2021	March 11, 2022	July 6, 2022
Average-Detections	--	--	--	--	--	--	--	--	--
Average-All Samples[1]	0.05	0.05	0.22	0.08	0.05	0.23	0.1	0.05	0.225
Maximum Concentration	--	--	--	--	--	--	--	--	--
No. of Detections/Samples[2]	0/32	0/28	0/28	0/32	0/28	0/28	0/32	0/28	0/28
LOCATION ID									
MSA-SW37A	--	--	--	--	--	--	--	--	--
MSA-SW37B	--	--	--	--	--	--	--	--	--
MSA-SW37C	--	--	--	--	--	--	--	--	--
MSA-SW37D	--	--	--	--	--	--	--	--	--
MSA-SW38A	--	--	--	--	--	--	--	--	--
MSA-SW38B	--	--	--	--	--	--	--	--	--
MSA-SW38C	--	--	--	--	--	--	--	--	--
MSA-SW38D	--	--	--	--	--	--	--		--
MSA-SW40A	--	--	--	--	--	--	--	--	--
MSA-SW40B	--	--	--	--	--	--	--	--	--
MSA-SW40C	--	--	--	--	--	--	--	--	--
MSA-SW40D	--	--	--	--	--	--	--	--	--
MSA-SW41A	--	--	--	--	--	--	--	--	--
MSA-SW41B	--	--	--	--	--	--	--	--	--
MSA-SW41C	--	--	--	--	--	--	--	--	--
MSA-SW41D	--	--	--	--	--	--	--	--	--
MSA-SW42A	--	--	--	--	--	--	--	--	--
MSA-SW42B	--	--	--	--	--	--	--	--	--
MSA-SW42C	--	--	--	--	--	--	--	--	--
MSA-SW42D	--	--	--	--	--	--	--	--	--
MSA-SW43A	--	--	--	--	--	--	--	--	--
MSA-SW43B	--	--	--	--	--	--	--	--	--
MSA-SW43C	--	--	--	--	--	--	--	--	--
MSA-SW43D	--	--	--	--	--	--	--	--	--
MSA-SW44A	--	NS	NS	--	NS	NS	--	NS	NS
MSA-SW44B	--	NS	NS	--	NS	NS	--	NS	NS
MSA-SW44C	--	NS	NS	--	NS	NS	--	NS	NS
MSA-SW44D	--	NS	NS	--	NS	NS	--	NS	NS
MSA-SW46A	--	--	--	--	--	--	--	--	--
MSA-SW47A	--	--	--	--	--	--	--	--	--
MSA-SW48A	--	--	--	--	--	--	--	--	--
MSA-SW49A	--	--	--	--	--	--	--	--	--

1 -Averages were calculated using 1/2 sample quantitation limit (nondetects) and 1/2 the detection limit (B-qualified data).
2 - The number of samples collected per round decreased from 32 to 28 starting in March 2022.
Bold font indicates detected concentration exceeded its lowest screening criterion.
Swimming criteria are MDE-approved and are 10 µg/L for trichloroethene , 300 µg/L for cis-1,2-dichloroethene, and 0.7 µg/L for vinyl chloride.
-- - not detected
µg/L - micrograms per liter
MDE - Maryland Department of the Environment
NS - not sampled

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-July 2022
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)	Feet
MSA-SW37A	-070622	7/6/2022	0932	7.34	4.26	28.44	9.76	5.48	0.23	170	1.50
MSA-SW37B	-070622	7/6/2022	0935	7.34	4.29	28.52	10.40	5.64	0.23	180	3.00
MSA-SW37C	-070622	7/6/2022	0938	7.36	4.36	28.52	10.30	6.06	0.23	186	4.80
MSA-SW37D	-070622	7/6/2022	0941	7.39	4.36	28.50	10.10	6.29	0.23	188	>5.5
MSA-SW38A	-070622	7/6/2022	0841	7.25	4.46	27.99	9.77	5.33	0.24	192	1.50
MSA-SW38B	-070622	7/6/2022	0844	7.26	4.46	27.98	9.96	5.07	0.24	192	4.10
MSA-SW38C	-070622	7/6/2022	0846	7.26	4.53	27.99	11.60	5.51	0.24	194	4.60
MSA-SW38D	-070622	7/6/2022	0850	7.31	4.52	27.98	10.80	5.65	0.24	197	5.20
MSA-SW40A	-070622	7/6/2022	0900	7.28	4.37	27.85	9.46	5.01	0.23	186	1.60
MSA-SW40B	-070622	7/6/2022	0903	7.30	4.32	27.94	14.70	5.40	0.23	190	2.50
MSA-SW40C	-070622	7/6/2022	0905	7.32	4.38	28.06	8.07	5.91	0.23	193	4.70
MSA-SW40D	-070622	7/6/2022	0908	7.33	4.50	28.19	8.43	5.95	0.23	195	>5.5
MSA-SW41A	-070622	7/6/2022	0822	7.23	4.43	27.89	9.30	5.08	0.24	187	1.80
MSA-SW41B	-070622	7/6/2022	0825	7.23	4.45	27.89	9.69	5.08	0.24	190	3.50
MSA-SW41C	-070622	7/6/2022	0828	7.24	4.50	28.00	11.70	5.24	0.24	193	5.10
MSA-SW41D	-070622	7/6/2022	0832	7.28	4.54	28.05	11.00	6.01	0.24	195	>5.5
MSA-SW42A	-070622	7/6/2022	0916	7.34	4.21	28.12	20.80	5.82	0.22	185	1.80
MSA-SW42B	-070622	7/6/2022	0919	7.33	4.22	28.16	13.60	5.80	0.22	189	3.10
MSA-SW42C	-070622	7/6/2022	0922	7.32	4.29	28.12	10.90	5.71	0.23	191	5.20
MSA-SW42D	-070622	7/6/2022	0926	7.34	4.31	28.16	10.80	6.05	0.23	191	>5.5
MSA-SW43A	-070622	7/6/2022	0800	7.30	4.55	27.48	34.20	5.41	0.24	165	2.00
MSA-SW43B	-070622	7/6/2022	0805	7.23	4.51	27.89	11.30	5.44	0.24	179	3.80
MSA-SW43C	-070622	7/6/2022	0808	7.23	4.52	27.98	11.70	5.23	0.24	183	4.80
MSA-SW43D	-070622	7/6/2022	0811	7.23	4.56	28.06	11.70	5.23	0.24	187	5.30
MSA-SW46A	-070622	7/6/2022	0912	7.37	4.24	28.06	12.90	5.51	0.22	192	2.10
MSA-SW47A	-070622	7/6/2022	0854	7.33	4.42	27.99	9.46	5.14	0.23	195	2.60
MSA-SW48A	-070622	7/6/2022	0836	7.28	4.45	27.91	10.30	4.86	0.24	194	1.70
MSA-SW49A	-070622	7/6/2022	0816	7.24	4.46	27.88	10.00	4.99	0.24	184	2.20

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09567

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

Sample ID No.: MSA-SW37A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0932								
Depth:	1 ft below water	**clear**	**7.34**	**4.26**	**28.44**	**9.76**	**5.48**	**0.23**	**170**
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 1.5 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW37B -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0935								
Depth:	1 ft below water	**clear**	**7.34**	**4.29**	**28.52**	**10.4**	**5.64**	**0.23**	**180**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 3 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW37C -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0938								
Depth:	1 ft below water	**clear**	**7.36**	**4.36**	**28.52**	**10.3**	**6.06**	**0.23**	**186**
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 4.8 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW37D -070622
Sample Location: MSA-SW37D
Sampled By: J. Mullis
C.O.C. No.:

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

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0941								
Depth:	1 ft below water	**clear**	**7.39**	**4.36**	**28.5**	**10.1**	**6.29**	**0.23**	**188**
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 >5.5 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW38A -070622
Sample Location: MSA-SW38A
Sampled By: J. Mullis
C.O.C. No.:

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

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	7/6/2022								
Time:	#REF!	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**0.24**	**192**
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 1.5 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW38B -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0841								
Depth:	1 ft below water	**clear**	**7.25**	**27.99**	**#REF!**	**9.77**	**5.33**	**0.24**	**192**
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 4.1 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW38C -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0844								
Depth:	1 ft below water	**clear**	**7.26**	**27.98**	**#REF!**	**9.96**	**5.07**	**0.24**	**194**
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 4.6 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW38D -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0846								
Depth:	1 ft below water	**clear**	**7.26**	**27.99**	**#REF!**	**11.60**	**5.51**	**0.24**	**197**
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 5.2 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW40A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0850								
Depth:	1 ft below water	**clear**	**7.31**	**27.98**	**#REF!**	**10.80**	**5.65**	**0.2**	**186**
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 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW40B -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0903								
Depth:	1 ft below water	**clear**	**7.30**	**4.32**	**27.94**	**14.70**	**5.40**	**0.2**	**190**
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 2.5 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW40C -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0905								
Depth:	1 ft below water	**clear**	**7.32**	**4.38**	**28.06**	**8.07**	**5.91**	**0.2**	**193**
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 4.7 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW40D -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0908								
Depth:	1 ft below water	**clear**	**7.33**	**4.50**	**28.19**	**8.43**	**5.95**	**0.2**	**195**
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 >5.5 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW41A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0822								
Depth:	1 ft below water	**clear**	**7.23**	**4.43**	**27.89**	**9.30**	**5.08**	**0.2**	**187**
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 1.8 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW41B -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0825								
Depth:	1 ft below water	**clear**	**7.23**	**4.45**	**27.89**	**9.69**	**5.08**	**0.2**	**190**
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 3.5 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW41C -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0828								
Depth:	1 ft below water	**clear**	**7.24**	**4.50**	**28.00**	**11.70**	**5.24**	**0.2**	**193**
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 5.1 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW41D -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0832								
Depth:	1 ft below water	**clear**	**7.28**	**4.54**	**28.05**	**11.00**	**6.01**	**0.2**	**195**
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 >5.5 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW42A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0916								
Depth:	1 ft below water	**clear**	**7.34**	**4.21**	**28.12**	**20.80**	**5.82**	**0.2**	**185**
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 1.8 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW42B -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0919								
Depth:	1 ft below water	**clear**	**7.33**	**4.22**	**28.16**	**13.60**	**5.80**	**0.2**	**189**
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 3.1 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW42C -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0922								
Depth:	1 ft below water	**clear**	**7.32**	**4.29**	**28.12**	**10.90**	**5.71**	**0.2**	**191**
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 5.2 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW42D -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0926								
Depth:	1 ft below water	**clear**	**7.34**	**4.31**	**28.16**	**10.80**	**6.05**	**0.2**	**191**
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 >5.5 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW43A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0800								
Depth:	1 ft below water	**clear**	**7.30**	**4.55**	**27.48**	**34.20**	**5.41**	**0.2**	**165**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 2 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW43B -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0805								
Depth:	1 ft below water	**clear**	**7.23**	**4.51**	**27.89**	**11.30**	**5.44**	**0.2**	**179**
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 3.8 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW43C -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0808								
Depth:	1 ft below water	**clear**	**7.23**	**4.52**	**27.98**	**11.70**	**5.23**	**0.2**	**183**
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 4.8 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW43D -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0811								
Depth:	1 ft below water	**clear**	**7.23**	**4.56**	**28.06**	**11.70**	**5.23**	**0.2**	**187**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

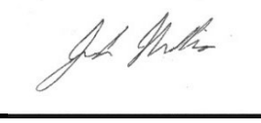
Water depth 5.3 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW46A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0912								
Depth:	1 ft below water	**clear**	**7.37**	**4.24**	**28.06**	**12.90**	**5.51**	**0.2**	**192**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 2.1 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW47A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0854								
Depth:	1 ft below water	**clear**	**7.33**	**4.42**	**27.99**	**9.46**	**5.14**	**0.2**	**195**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 2.6 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW48A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0836								
Depth:	1 ft below water	**clear**	**7.28**	**4.45**	**27.91**	**10.30**	**4.86**	**0.2**	**194**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.7 Feet

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.: 112IC09567

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

Sample ID No.: MSA-SW49A -070622
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:	7/6/2022	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0816								
Depth:	1 ft below water	**clear**	**7.24**	**4.46**	**27.88**	**10.00**	**4.99**	**0.2**	**184**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 2.2 Feet

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

APPENDIX B—DATA-VALIDATION AND FULL LABORATORY REPORTS

TETRA TECH

INTERNAL CORRESPONDENCE

TO: S. BRENNER **DATE:** AUGUST 3, 2022

FROM: E. SEDLMYER **COPIES:** DV FILE

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)
FROG MORTAR CREEK SURFACE WATER SAMPLING
SDG 240-169444-1

SAMPLES: 30/Aqueous/VOC

MSA-SW37A-070622	MSA-SW37B-070622	MSA-SW37C-070622
MSA-SW37D-070622	MSA-SW38A-070622	MSA-SW38B-070622
MSA-SW38C-070622	MSA-SW38D-070622	MSA-SW40A-070622
MSA-SW40B-070622	MSA-SW40C-070622	MSA-SW40D-070622
MSA-SW41A-070622	MSA-SW41B-070622	MSA-SW41C-070622
MSA-SW41D-070622	MSA-SW42A-070622	MSA-SW42B-070622
MSA-SW42C-070622	MSA-SW42D-070622	MSA-SW43A-070622
MSA-SW43B-070622	MSA-SW43C-070622	MSA-SW43D-070622
MSA-SW46A-070622	MSA-SW47A-070622	MSA-SW48A-070622
MSA-SW49A-070622	MSA-SWEQB-070622	TB-070622

Overview

The sample set for LMC-MSA Frog Mortar Creek, SDG 240-169444-1 consisted of twenty-eight (28) aqueous environmental samples, one (1) equipment blank, and one (1) trip blank. All thirty (30) aqueous samples were analyzed for Volatile Organic Compounds (VOC). No field duplicate sample pair was included in this SDG.

The samples were collected by Tetra Tech, Inc. on July 06, 2022 and analyzed by Eurofins / Test America, Inc. All analyses were conducted in accordance with SW-846 Method 8260C analytical and reporting protocols.

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

Major

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

Minor

- The VOC continuing calibration performed on instrument A3UX15 on 07/11/2022 @ 14:21 had Percent Differences (%Ds) for 1,1,2-trichlorotrifluoroethane, vinyl acetate, tetrachloroethene, and bromoform, which exceeded the 20% quality control limit. Affecting samples MSA-SW37A-070622, MSA-SW37B-070622, and MSA-SW37C-070622. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).

- The VOC continuing calibration performed on instrument A3UX15 on 07/12/2022 @ 12:08 had %Ds for 1,1,2-trichlorotrifluoroethane and vinyl acetate, which exceeded the 20% quality control limit. Affecting samples MSA-SW37D-070622, MSA-SW38A-070622, MSA-SW38B-070622, MSA-SW38C-070622, MSA-SW38D-070622, MSA-SW40A-070622, MSA-SW40B-070622, MSA-SW40C-070622, MSA-SW40D-070622, MSA-SW41A-070622, MSA-SW41B-070622, MSA-SW41C-070622, MSA-SW41D-070622, MSA-SW42A-070622, MSA-SW42B-070622, MSA-SW42C-070622, MSA-SW42D-070622, MSA-SW43A-070622, MSA-SW43B-070622, and MSA-SW43C-070622. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).

  The VOC continuing calibration performed on instrument A3UX15 on 07/13/2022 @ 14:39 had %Ds for 1,1,2-trichlorotrifluoroethane, tert-butyl alcohol, vinyl acetate, tetrachloroethene, and bromoform, which exceeded the 20% quality control limit. Affecting samples MSA-SW43D-070622, MSA-SW46A-070622, MSA-SW47A-070622, MSA-SW48A-070622, MSA-SW49A-070622, TB-070622, and MSA-SWEQB-070622. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).

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

Notes

Non-detected results were reported to the MDL.

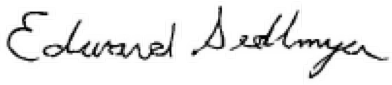
Hexachlorobutadiene was detected in the method blank (MB 240-534562/10) at a concentration of 1.19 ug/L. Affecting samples MSA-SW43D-070622, TB-070622, MSA-SW46A-070622, MSA-SW47A-070622, MSA-SW48A-070622, MSA-SW49A-070622, and MSA-SWEQB-070622. No action was taken on this basis as hexachlorobutadiene was not detected in the affected samples.

Executive Summary

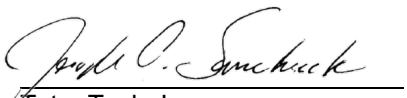
Laboratory Performance: VOC continuing calibrations contained %Ds for several compounds that exceeded 20%. Non-detected chlorodifluoromethane results were estimated because the compound was evaluated via TIC library search.

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

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Superfund Methods Data Review" (November 2020). The text of this report has been formulated to address only those problem areas affecting data quality.



Tetra Tech, Inc.
Edward Sedlmyer
Data Validator



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

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

Data Qualifier Definitions

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

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Appendix A

Qualified Analytical Results

PROJ_NO: 09567	NSAMPLE	MSA-SW37A-070622			MSA-SW37B-070622			MSA-SW37C-070622			MSA-SW37D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-1			240-169444-2			240-169444-3			240-169444-4		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,1,1-TRICHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
1,1,2,2-TETRACHLOROETHANE		0.6	U		0.6	U		0.6	U		0.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,1-DICHLOROETHENE		0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROPROPENE		0.36	U		0.36	U		0.36	U		0.36	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2,3-TRIMETHYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
1,2,4-TRICHLOROBENZENE		0.77	U		0.77	U		0.77	U		0.77	U	
1,2,4-TRIMETHYLBENZENE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DICHLOROBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,3-DICHLOROBENZENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
2,2-DICHLOROPROPANE		0.78	U		0.78	U		0.78	U		0.78	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		1.5	UR	M	1.5	UR	M	1.5	UR	M	1.5	UR	M
2-CHLOROTOLUENE		0.57	U		0.57	U		0.57	U		0.57	U	
2-HEXANONE		1.1	U		1.1	U		1.1	U		1.1	U	
4-CHLOROTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-ISOPROPYLTOLUENE		0.56	U		0.56	U		0.56	U		0.56	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
BROMOBENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE		0.54	U		0.54	U		0.54	U		0.54	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	UJ	C	0.76	UJ	C	0.76	UJ	C	0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW38A-070622			MSA-SW38B-070622			MSA-SW38C-070622			MSA-SW38D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-5			240-169444-6			240-169444-7			240-169444-8		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,1,1-TRICHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
1,1,2,2-TETRACHLOROETHANE		0.6	U		0.6	U		0.6	U		0.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,1-DICHLOROETHENE		0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROPROPENE		0.36	U		0.36	U		0.36	U		0.36	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2,3-TRIMETHYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
1,2,4-TRICHLOROBENZENE		0.77	U		0.77	U		0.77	U		0.77	U	
1,2,4-TRIMETHYLBENZENE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DICHLOROBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,3-DICHLOROBENZENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
2,2-DICHLOROPROPANE		0.78	U		0.78	U		0.78	U		0.78	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		1.5	UR	M	1.5	UR	M	1.5	UR	M	1.5	UR	M
2-CHLOROTOLUENE		0.57	U		0.57	U		0.57	U		0.57	U	
2-HEXANONE		1.1	U		1.1	U		1.1	U		1.1	U	
4-CHLOROTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-ISOPROPYLTOLUENE		0.56	U		0.56	U		0.56	U		0.56	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
BROMOBENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE		0.54	U		0.54	U		0.54	U		0.54	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW40A-070622			MSA-SW40B-070622			MSA-SW40C-070622			MSA-SW40D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-9			240-169444-10			240-169444-11			240-169444-12		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,1,1-TRICHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
1,1,2,2-TETRACHLOROETHANE		0.6	U		0.6	U		0.6	U		0.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,1-DICHLOROETHENE		0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROPROPENE		0.36	U		0.36	U		0.36	U		0.36	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2,3-TRIMETHYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
1,2,4-TRICHLOROBENZENE		0.77	U		0.77	U		0.77	U		0.77	U	
1,2,4-TRIMETHYLBENZENE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DICHLOROBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,3-DICHLOROBENZENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
2,2-DICHLOROPROPANE		0.78	U		0.78	U		0.78	U		0.78	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		1.5	UR	M	1.5	UR	M	1.5	UR	M	1.5	UR	M
2-CHLOROTOLUENE		0.57	U		0.57	U		0.57	U		0.57	U	
2-HEXANONE		1.1	U		1.1	U		1.1	U		1.1	U	
4-CHLOROTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-ISOPROPYLTOLUENE		0.56	U		0.56	U		0.56	U		0.56	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
BROMOBENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE		0.54	U		0.54	U		0.54	U		0.54	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW41A-070622			MSA-SW41B-070622			MSA-SW41C-070622			MSA-SW41D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-13			240-169444-14			240-169444-15			240-169444-16		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,1,1-TRICHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
1,1,2,2-TETRACHLOROETHANE		0.6	U		0.6	U		0.6	U		0.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,1-DICHLOROETHENE		0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROPROPENE		0.36	U		0.36	U		0.36	U		0.36	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2,3-TRIMETHYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
1,2,4-TRICHLOROBENZENE		0.77	U		0.77	U		0.77	U		0.77	U	
1,2,4-TRIMETHYLBENZENE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DICHLOROBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,3-DICHLOROBENZENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
2,2-DICHLOROPROPANE		0.78	U		0.78	U		0.78	U		0.78	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		1.5	UR	M	1.5	UR	M	1.5	UR	M	1.5	UR	M
2-CHLOROTOLUENE		0.57	U		0.57	U		0.57	U		0.57	U	
2-HEXANONE		1.1	U		1.1	U		1.1	U		1.1	U	
4-CHLOROTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-ISOPROPYLTOLUENE		0.56	U		0.56	U		0.56	U		0.56	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
BROMOBENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE		0.54	U		0.54	U		0.54	U		0.54	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW42A-070622			MSA-SW42B-070622			MSA-SW42C-070622			MSA-SW42D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-17			240-169444-18			240-169444-19			240-169444-20		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,1,1-TRICHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
1,1,2,2-TETRACHLOROETHANE		0.6	U		0.6	U		0.6	U		0.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,1-DICHLOROETHENE		0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROPROPENE		0.36	U		0.36	U		0.36	U		0.36	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2,3-TRIMETHYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
1,2,4-TRICHLOROBENZENE		0.77	U		0.77	U		0.77	U		0.77	U	
1,2,4-TRIMETHYLBENZENE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DICHLOROBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,3-DICHLOROBENZENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
2,2-DICHLOROPROPANE		0.78	U		0.78	U		0.78	U		0.78	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		1.5	UR	M	1.5	UR	M	1.5	UR	M	1.5	UR	M
2-CHLOROTOLUENE		0.57	U		0.57	U		0.57	U		0.57	U	
2-HEXANONE		1.1	U		1.1	U		1.1	U		1.1	U	
4-CHLOROTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-ISOPROPYLTOLUENE		0.56	U		0.56	U		0.56	U		0.56	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
BROMOBENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE		0.54	U		0.54	U		0.54	U		0.54	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW43A-070622			MSA-SW43B-070622			MSA-SW43C-070622			MSA-SW43D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-21			240-169444-22			240-169444-23			240-169444-24		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,1,1-TRICHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
1,1,2,2-TETRACHLOROETHANE		0.6	U		0.6	U		0.6	U		0.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,1-DICHLOROETHENE		0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROPROPENE		0.36	U		0.36	U		0.36	U		0.36	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2,3-TRIMETHYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
1,2,4-TRICHLOROBENZENE		0.77	U		0.77	U		0.77	U		0.77	U	
1,2,4-TRIMETHYLBENZENE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DICHLOROBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,3-DICHLOROBENZENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
2,2-DICHLOROPROPANE		0.78	U		0.78	U		0.78	U		0.78	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		1.5	UR	M	1.5	UR	M	1.5	UR	M	1.5	UR	M
2-CHLOROTOLUENE		0.57	U		0.57	U		0.57	U		0.57	U	
2-HEXANONE		1.1	U		1.1	U		1.1	U		1.1	U	
4-CHLOROTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-ISOPROPYLTOLUENE		0.56	U		0.56	U		0.56	U		0.56	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
BROMOBENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE		0.54	U		0.54	U		0.54	U		0.54	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	UJ	C
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW46A-070622			MSA-SW47A-070622			MSA-SW48A-070622			MSA-SW49A-070622		
SDG: 240-169444-1	LAB_ID	240-169444-26			240-169444-27			240-169444-28			240-169444-29		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,1,1-TRICHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
1,1,2,2-TETRACHLOROETHANE		0.6	U		0.6	U		0.6	U		0.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,1-DICHLOROETHENE		0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROPROPENE		0.36	U		0.36	U		0.36	U		0.36	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2,3-TRIMETHYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
1,2,4-TRICHLOROBENZENE		0.77	U		0.77	U		0.77	U		0.77	U	
1,2,4-TRIMETHYLBENZENE		0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DICHLOROBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.47	U		0.47	U		0.47	U		0.47	U	
1,3-DICHLOROBENZENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
2,2-DICHLOROPROPANE		0.78	U		0.78	U		0.78	U		0.78	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		1.5	UR	M	1.5	UR	M	1.5	UR	M	1.5	UR	M
2-CHLOROTOLUENE		0.57	U		0.57	U		0.57	U		0.57	U	
2-HEXANONE		1.1	U		1.1	U		1.1	U		1.1	U	
4-CHLOROTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-ISOPROPYLTOLUENE		0.56	U		0.56	U		0.56	U		0.56	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
BROMOBENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE		0.54	U		0.54	U		0.54	U		0.54	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	UJ	C	0.76	UJ	C	0.76	UJ	C	0.76	UJ	C
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09567	NSAMPLE	MSA-SWEQB-070622			TB-070622		
SDG: 240-169444-1	LAB_ID	240-169444-30			240-169444-25		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.43	U		0.43	U	
1,1,1-TRICHLOROETHANE		0.48	U		0.48	U	
1,1,2,2-TETRACHLOROETHANE		0.6	U		0.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.47	U		0.47	U	
1,1-DICHLOROETHENE		0.49	U		0.49	U	
1,1-DICHLOROPROPENE		0.36	U		0.36	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.52	U		0.52	U	
1,2,3-TRIMETHYLBENZENE		0.31	U		0.31	U	
1,2,4-TRICHLOROBENZENE		0.77	U		0.77	U	
1,2,4-TRIMETHYLBENZENE		0.52	U		0.52	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.41	U		0.41	U	
1,2-DICHLOROBENZENE		0.48	U		0.48	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.47	U		0.47	U	
1,3-DICHLOROBENZENE		0.45	U		0.45	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.41	U		0.41	U	
2,2-DICHLOROPROPANE		0.78	U		0.78	U	
2-BUTANONE		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		1.5	UR	M	1.5	UR	M
2-CHLOROTOLUENE		0.57	U		0.57	U	
2-HEXANONE		1.1	U		1.1	U	
4-CHLOROTOLUENE		0.43	U		0.43	U	
4-ISOPROPYLTOLUENE		0.56	U		0.56	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U	
ACETONE		5.4	U		5.4	U	
BENZENE		0.42	U		0.42	U	
BROMOBENZENE		0.5	U		0.5	U	
BROMOCHLOROMETHANE		0.54	U		0.54	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U	
BROMOFORM		0.76	UJ	C	0.76	UJ	C
BROMOMETHANE		0.42	U		0.42	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW37A-070622			MSA-SW37B-070622			MSA-SW37C-070622			MSA-SW37D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-1			240-169444-2			240-169444-3			240-169444-4		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.59	U		0.59	U		0.59	U		0.59	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.38	U		0.38	U		0.38	U		0.38	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.47	U		0.47	U		0.47	U		0.47	U	
CHLOROMETHANE		0.63	U		0.63	U		0.63	U		0.63	U	
CIS-1,2-DICHLOROETHENE		0.46	U		0.46	U		0.46	U		0.46	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.4	U		0.4	U		0.4	U		0.4	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.4	U		0.4	U		0.4	U		0.4	U	
ETHYLBENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.49	U		0.49	U		0.49	U		0.49	U	
M+P-XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
METHYL TERT-BUTYL ETHER		0.47	U		0.47	U		0.47	U		0.47	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.8	U		0.8	U		0.8	U		0.8	U	
N-BUTYLBENZENE		0.6	U		0.6	U		0.6	U		0.6	U	
N-PROPYLBENZENE		0.57	U		0.57	U		0.57	U		0.57	U	
O-XYLENE		0.42	U		0.42	U		0.42	U		0.42	U	
SEC-BUTYLBENZENE		0.53	U		0.53	U		0.53	U		0.53	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.43	U		0.43	U		0.43	U		0.43	U	
TERT-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
TERTIARY-BUTYL ALCOHOL		7.2	U		7.2	U		7.2	U		7.2	U	
TETRACHLOROETHENE		0.44	UJ	C	0.44	UJ	C	0.44	UJ	C	0.44	U	
TOLUENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOTAL XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
TRANS-1,2-DICHLOROETHENE		0.51	U		0.51	U		0.51	U		0.51	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW38A-070622			MSA-SW38B-070622			MSA-SW38C-070622			MSA-SW38D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-5			240-169444-6			240-169444-7			240-169444-8		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.59	U		0.59	U		0.59	U		0.59	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.38	U		0.38	U		0.38	U		0.38	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.47	U		0.47	U		0.47	U		0.47	U	
CHLOROMETHANE		0.63	U		0.63	U		0.63	U		0.63	U	
CIS-1,2-DICHLOROETHENE		0.46	U		0.46	U		0.46	U		0.46	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.4	U		0.4	U		0.4	U		0.4	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.4	U		0.4	U		0.4	U		0.4	U	
ETHYLBENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.49	U		0.49	U		0.49	U		0.49	U	
M+P-XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
METHYL TERT-BUTYL ETHER		0.47	U		0.47	U		0.47	U		0.47	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.8	U		0.8	U		0.8	U		0.8	U	
N-BUTYLBENZENE		0.6	U		0.6	U		0.6	U		0.6	U	
N-PROPYLBENZENE		0.57	U		0.57	U		0.57	U		0.57	U	
O-XYLENE		0.42	U		0.42	U		0.42	U		0.42	U	
SEC-BUTYLBENZENE		0.53	U		0.53	U		0.53	U		0.53	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.43	U		0.43	U		0.43	U		0.43	U	
TERT-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
TERTIARY-BUTYL ALCOHOL		7.2	U		7.2	U		7.2	U		7.2	U	
TETRACHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOLUENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOTAL XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
TRANS-1,2-DICHLOROETHENE		0.51	U		0.51	U		0.51	U		0.51	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW40A-070622			MSA-SW40B-070622			MSA-SW40C-070622			MSA-SW40D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-9			240-169444-10			240-169444-11			240-169444-12		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.59	U		0.59	U		0.59	U		0.59	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.38	U		0.38	U		0.38	U		0.38	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.47	U		0.47	U		0.47	U		0.47	U	
CHLOROMETHANE		0.63	U		0.63	U		0.63	U		0.63	U	
CIS-1,2-DICHLOROETHENE		0.46	U		0.46	U		0.46	U		0.46	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.4	U		0.4	U		0.4	U		0.4	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.4	U		0.4	U		0.4	U		0.4	U	
ETHYLBENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.49	U		0.49	U		0.49	U		0.49	U	
M+P-XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
METHYL TERT-BUTYL ETHER		0.47	U		0.47	U		0.47	U		0.47	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.8	U		0.8	U		0.8	U		0.8	U	
N-BUTYLBENZENE		0.6	U		0.6	U		0.6	U		0.6	U	
N-PROPYLBENZENE		0.57	U		0.57	U		0.57	U		0.57	U	
O-XYLENE		0.42	U		0.42	U		0.42	U		0.42	U	
SEC-BUTYLBENZENE		0.53	U		0.53	U		0.53	U		0.53	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.43	U		0.43	U		0.43	U		0.43	U	
TERT-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
TERTIARY-BUTYL ALCOHOL		7.2	U		7.2	U		7.2	U		7.2	U	
TETRACHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOLUENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOTAL XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
TRANS-1,2-DICHLOROETHENE		0.51	U		0.51	U		0.51	U		0.51	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW41A-070622			MSA-SW41B-070622			MSA-SW41C-070622			MSA-SW41D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-13			240-169444-14			240-169444-15			240-169444-16		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.59	U		0.59	U		0.59	U		0.59	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.38	U		0.38	U		0.38	U		0.38	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.47	U		0.47	U		0.47	U		0.47	U	
CHLOROMETHANE		0.63	U		0.63	U		0.63	U		0.63	U	
CIS-1,2-DICHLOROETHENE		0.46	U		0.46	U		0.46	U		0.46	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.4	U		0.4	U		0.4	U		0.4	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.4	U		0.4	U		0.4	U		0.4	U	
ETHYLBENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.49	U		0.49	U		0.49	U		0.49	U	
M+P-XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
METHYL TERT-BUTYL ETHER		0.47	U		0.47	U		0.47	U		0.47	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.8	U		0.8	U		0.8	U		0.8	U	
N-BUTYLBENZENE		0.6	U		0.6	U		0.6	U		0.6	U	
N-PROPYLBENZENE		0.57	U		0.57	U		0.57	U		0.57	U	
O-XYLENE		0.42	U		0.42	U		0.42	U		0.42	U	
SEC-BUTYLBENZENE		0.53	U		0.53	U		0.53	U		0.53	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.43	U		0.43	U		0.43	U		0.43	U	
TERT-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
TERTIARY-BUTYL ALCOHOL		7.2	U		7.2	U		7.2	U		7.2	U	
TETRACHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOLUENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOTAL XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
TRANS-1,2-DICHLOROETHENE		0.51	U		0.51	U		0.51	U		0.51	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW42A-070622			MSA-SW42B-070622			MSA-SW42C-070622			MSA-SW42D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-17			240-169444-18			240-169444-19			240-169444-20		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.59	U		0.59	U		0.59	U		0.59	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.38	U		0.38	U		0.38	U		0.38	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.47	U		0.47	U		0.47	U		0.47	U	
CHLOROMETHANE		0.63	U		0.63	U		0.63	U		0.63	U	
CIS-1,2-DICHLOROETHENE		0.46	U		0.46	U		0.46	U		0.46	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.4	U		0.4	U		0.4	U		0.4	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.4	U		0.4	U		0.4	U		0.4	U	
ETHYLBENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.49	U		0.49	U		0.49	U		0.49	U	
M+P-XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
METHYL TERT-BUTYL ETHER		0.47	U		0.47	U		0.47	U		0.47	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.8	U		0.8	U		0.8	U		0.8	U	
N-BUTYLBENZENE		0.6	U		0.6	U		0.6	U		0.6	U	
N-PROPYLBENZENE		0.57	U		0.57	U		0.57	U		0.57	U	
O-XYLENE		0.42	U		0.42	U		0.42	U		0.42	U	
SEC-BUTYLBENZENE		0.53	U		0.53	U		0.53	U		0.53	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.43	U		0.43	U		0.43	U		0.43	U	
TERT-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
TERTIARY-BUTYL ALCOHOL		7.2	U		7.2	U		7.2	U		7.2	U	
TETRACHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOLUENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOTAL XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
TRANS-1,2-DICHLOROETHENE		0.51	U		0.51	U		0.51	U		0.51	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW43A-070622			MSA-SW43B-070622			MSA-SW43C-070622			MSA-SW43D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-21			240-169444-22			240-169444-23			240-169444-24		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.59	U		0.59	U		0.59	U		0.59	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.38	U		0.38	U		0.38	U		0.38	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.47	U		0.47	U		0.47	U		0.47	U	
CHLOROMETHANE		0.63	U		0.63	U		0.63	U		0.63	U	
CIS-1,2-DICHLOROETHENE		0.46	U		0.46	U		0.46	U		0.46	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.4	U		0.4	U		0.4	U		0.4	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.4	U		0.4	U		0.4	U		0.4	U	
ETHYLBENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.49	U		0.49	U		0.49	U		0.49	U	
M+P-XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
METHYL TERT-BUTYL ETHER		0.47	U		0.47	U		0.47	U		0.47	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.8	U		0.8	U		0.8	U		0.8	U	
N-BUTYLBENZENE		0.6	U		0.6	U		0.6	U		0.6	U	
N-PROPYLBENZENE		0.57	U		0.57	U		0.57	U		0.57	U	
O-XYLENE		0.42	U		0.42	U		0.42	U		0.42	U	
SEC-BUTYLBENZENE		0.53	U		0.53	U		0.53	U		0.53	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.43	U		0.43	U		0.43	U		0.43	U	
TERT-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
TERTIARY-BUTYL ALCOHOL		7.2	U		7.2	U		7.2	U		7.2	UJ	C
TETRACHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	UJ	C
TOLUENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOTAL XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
TRANS-1,2-DICHLOROETHENE		0.51	U		0.51	U		0.51	U		0.51	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW46A-070622			MSA-SW47A-070622			MSA-SW48A-070622			MSA-SW49A-070622		
SDG: 240-169444-1	LAB_ID	240-169444-26			240-169444-27			240-169444-28			240-169444-29		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.59	U		0.59	U		0.59	U		0.59	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.38	U		0.38	U		0.38	U		0.38	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.47	U		0.47	U		0.47	U		0.47	U	
CHLOROMETHANE		0.63	U		0.63	U		0.63	U		0.63	U	
CIS-1,2-DICHLOROETHENE		0.46	U		0.46	U		0.46	U		0.46	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.4	U		0.4	U		0.4	U		0.4	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.4	U		0.4	U		0.4	U		0.4	U	
ETHYLBENZENE		0.42	U		0.42	U		0.42	U		0.42	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.49	U		0.49	U		0.49	U		0.49	U	
M+P-XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
METHYL TERT-BUTYL ETHER		0.47	U		0.47	U		0.47	U		0.47	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.8	U		0.8	U		0.8	U		0.8	U	
N-BUTYLBENZENE		0.6	U		0.6	U		0.6	U		0.6	U	
N-PROPYLBENZENE		0.57	U		0.57	U		0.57	U		0.57	U	
O-XYLENE		0.42	U		0.42	U		0.42	U		0.42	U	
SEC-BUTYLBENZENE		0.53	U		0.53	U		0.53	U		0.53	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.43	U		0.43	U		0.43	U		0.43	U	
TERT-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
TERTIARY-BUTYL ALCOHOL		7.2	UJ	C	7.2	UJ	C	7.2	UJ	C	7.2	UJ	C
TETRACHLOROETHENE		0.44	UJ	C	0.44	UJ	C	0.44	UJ	C	0.44	UJ	C
TOLUENE		0.44	U		0.44	U		0.44	U		0.44	U	
TOTAL XYLENES		0.42	U		0.42	U		0.42	U		0.42	U	
TRANS-1,2-DICHLOROETHENE		0.51	U		0.51	U		0.51	U		0.51	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 09567	NSAMPLE	MSA-SWEQB-070622			TB-070622		
SDG: 240-169444-1	LAB_ID	240-169444-30			240-169444-25		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.59	U		0.59	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U	
CHLOROBENZENE		0.38	U		0.38	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U	
CHLOROFORM		1.8			0.47	U	
CHLOROMETHANE		0.63	U		0.63	U	
CIS-1,2-DICHLOROETHENE		0.46	U		0.46	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U	
DIBROMOMETHANE		0.4	U		0.4	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.4	U		0.4	U	
ETHYLBENZENE		0.42	U		0.42	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.49	U		0.49	U	
M+P-XYLENES		0.42	U		0.42	U	
METHYL TERT-BUTYL ETHER		0.47	U		0.47	U	
METHYLENE CHLORIDE		2.6	U		2.6	U	
NAPHTHALENE		0.8	U		0.8	U	
N-BUTYLBENZENE		0.6	U		0.6	U	
N-PROPYLBENZENE		0.57	U		0.57	U	
O-XYLENE		0.42	U		0.42	U	
SEC-BUTYLBENZENE		0.53	U		0.53	U	
STYRENE		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.43	U		0.43	U	
TERT-BUTYLBENZENE		0.48	U		0.48	U	
TERTIARY-BUTYL ALCOHOL		7.2	UJ	C	7.2	UJ	C
TETRACHLOROETHENE		0.44	UJ	C	0.44	UJ	C
TOLUENE		0.44	U		0.44	U	
TOTAL XYLENES		0.42	U		0.42	U	
TRANS-1,2-DICHLOROETHENE		0.51	U		0.51	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U	
TRICHLOROETHENE		0.44	U		0.44	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW37A-070622			MSA-SW37B-070622			MSA-SW37C-070622			MSA-SW37D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-1			240-169444-2			240-169444-3			240-169444-4		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.61	UJ	C	0.61	UJ	C	0.61	UJ	C	0.61	UJ	C
VINYL CHLORIDE		0.45	U		0.45	U		0.45	U		0.45	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW38A-070622			MSA-SW38B-070622			MSA-SW38C-070622			MSA-SW38D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-5			240-169444-6			240-169444-7			240-169444-8		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.61	UJ	C	0.61	UJ	C	0.61	UJ	C	0.61	UJ	C
VINYL CHLORIDE		0.45	U		0.45	U		0.45	U		0.45	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW40A-070622			MSA-SW40B-070622			MSA-SW40C-070622			MSA-SW40D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-9			240-169444-10			240-169444-11			240-169444-12		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.61	UJ	C	0.61	UJ	C	0.61	UJ	C	0.61	UJ	C
VINYL CHLORIDE		0.45	U		0.45	U		0.45	U		0.45	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW41A-070622			MSA-SW41B-070622			MSA-SW41C-070622			MSA-SW41D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-13			240-169444-14			240-169444-15			240-169444-16		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.61	UJ	C	0.61	UJ	C	0.61	UJ	C	0.61	UJ	C
VINYL CHLORIDE		0.45	U		0.45	U		0.45	U		0.45	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW42A-070622			MSA-SW42B-070622			MSA-SW42C-070622			MSA-SW42D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-17			240-169444-18			240-169444-19			240-169444-20		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.61	UJ	C	0.61	UJ	C	0.61	UJ	C	0.61	UJ	C
VINYL CHLORIDE		0.45	U		0.45	U		0.45	U		0.45	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW43A-070622			MSA-SW43B-070622			MSA-SW43C-070622			MSA-SW43D-070622		
SDG: 240-169444-1	LAB_ID	240-169444-21			240-169444-22			240-169444-23			240-169444-24		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.61	UJ	C	0.61	UJ	C	0.61	UJ	C	0.61	UJ	C
VINYL CHLORIDE		0.45	U		0.45	U		0.45	U		0.45	U	

PROJ_NO: 09567	NSAMPLE	MSA-SW46A-070622			MSA-SW47A-070622			MSA-SW48A-070622			MSA-SW49A-070622		
SDG: 240-169444-1	LAB_ID	240-169444-26			240-169444-27			240-169444-28			240-169444-29		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022			7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.61	UJ	C	0.61	UJ	C	0.61	UJ	C	0.61	UJ	C
VINYL CHLORIDE		0.45	U		0.45	U		0.45	U		0.45	U	

PROJ_NO: 09567	NSAMPLE	MSA-SWEQB-070622			TB-070622		
SDG: 240-169444-1	LAB_ID	240-169444-30			240-169444-25		
FRACTION: OV	SAMP_DATE	7/6/2022			7/6/2022		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U	
VINYL ACETATE		0.61	UJ	C	0.61	UJ	C
VINYL CHLORIDE		0.45	U		0.45	U	

Qualifier Codes:

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

Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 | Lab Sample ID: 240-169444-1

Matrix: Water | Lab File ID: UXC2956.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 | Lab Sample ID: 240-169444-1

Matrix: Water | Lab File ID: UXC2956.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 | Lab Sample ID: 240-169444-1

Matrix: Water | Lab File ID: UXC2956.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	108		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	97		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 | Lab Sample ID: 240-169444-1

Matrix: Water | Lab File ID: UXC2956.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-070622 | Lab Sample ID: 240-169444-2

Matrix: Water | Lab File ID: UXC2957.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-070622 | Lab Sample ID: 240-169444-2

Matrix: Water | Lab File ID: UXC2957.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-070622 | Lab Sample ID: 240-169444-2

Matrix: Water | Lab File ID: UXC2957.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-070622 | Lab Sample ID: 240-169444-2

Matrix: Water | Lab File ID: UXC2957.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-070622 | Lab Sample ID: 240-169444-3

Matrix: Water | Lab File ID: UXC2958.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:38

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 19:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-070622 | Lab Sample ID: 240-169444-3

Matrix: Water | Lab File ID: UXC2958.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:38

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 19:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-070622 | Lab Sample ID: 240-169444-3

Matrix: Water | Lab File ID: UXC2958.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:38

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 19:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-070622 | Lab Sample ID: 240-169444-3

Matrix: Water | Lab File ID: UXC2958.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:38

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 19:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-070622 | Lab Sample ID: 240-169444-4

Matrix: Water | Lab File ID: UXC2966.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-070622 | Lab Sample ID: 240-169444-4

Matrix: Water | Lab File ID: UXC2966.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-070622 | Lab Sample ID: 240-169444-4

Matrix: Water | Lab File ID: UXC2966.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	103		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-070622 | Lab Sample ID: 240-169444-4

Matrix: Water | Lab File ID: UXC2966.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-070622 | Lab Sample ID: 240-169444-5

Matrix: Water | Lab File ID: UXC2967.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:28

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-070622 | Lab Sample ID: 240-169444-5

Matrix: Water | Lab File ID: UXC2967.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:28

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-070622 | Lab Sample ID: 240-169444-5

Matrix: Water | Lab File ID: UXC2967.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:28

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	107		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-070622 | Lab Sample ID: 240-169444-5

Matrix: Water | Lab File ID: UXC2967.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:28

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-070622 | Lab Sample ID: 240-169444-6

Matrix: Water | Lab File ID: UXC2968.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:44

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-070622 | Lab Sample ID: 240-169444-6

Matrix: Water | Lab File ID: UXC2968.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:44

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-070622 | Lab Sample ID: 240-169444-6

Matrix: Water | Lab File ID: UXC2968.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:44

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	108		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		62-137
2037-26-5	Toluene-d8 (Surr)	96		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-070622 | Lab Sample ID: 240-169444-6

Matrix: Water | Lab File ID: UXC2968.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:44

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-070622 | Lab Sample ID: 240-169444-7

Matrix: Water | Lab File ID: UXC2969.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:46

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-070622 | Lab Sample ID: 240-169444-7

Matrix: Water | Lab File ID: UXC2969.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:46

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-070622 | Lab Sample ID: 240-169444-7

Matrix: Water | Lab File ID: UXC2969.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:46

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		56-136
1868-53-7	Dibromofluoromethane (Surr)	107		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-070622 | Lab Sample ID: 240-169444-7

Matrix: Water | Lab File ID: UXC2969.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:46

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-070622 | Lab Sample ID: 240-169444-8

Matrix: Water | Lab File ID: UXC2970.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-070622 | Lab Sample ID: 240-169444-8

Matrix: Water | Lab File ID: UXC2970.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-070622 | Lab Sample ID: 240-169444-8

Matrix: Water | Lab File ID: UXC2970.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	92		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-070622 | Lab Sample ID: 240-169444-8

Matrix: Water | Lab File ID: UXC2970.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-070622 | Lab Sample ID: 240-169444-9

Matrix: Water | Lab File ID: UXC2971.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-070622 | Lab Sample ID: 240-169444-9

Matrix: Water | Lab File ID: UXC2971.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-070622 | Lab Sample ID: 240-169444-9

Matrix: Water | Lab File ID: UXC2971.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	108		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-070622 | Lab Sample ID: 240-169444-9

Matrix: Water | Lab File ID: UXC2971.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-070622 | Lab Sample ID: 240-169444-10

Matrix: Water | Lab File ID: UXC2972.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:03

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-070622 | Lab Sample ID: 240-169444-10

Matrix: Water | Lab File ID: UXC2972.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:03

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-070622 | Lab Sample ID: 240-169444-10

Matrix: Water | Lab File ID: UXC2972.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:03

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	103		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-070622 | Lab Sample ID: 240-169444-10

Matrix: Water | Lab File ID: UXC2972.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:03

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-070622 | Lab Sample ID: 240-169444-11

Matrix: Water | Lab File ID: UXC2973.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:47

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-070622 | Lab Sample ID: 240-169444-11

Matrix: Water | Lab File ID: UXC2973.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:47

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-070622 | Lab Sample ID: 240-169444-11

Matrix: Water | Lab File ID: UXC2973.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:47

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		62-137
2037-26-5	Toluene-d8 (Surr)	94		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-070622 | Lab Sample ID: 240-169444-11

Matrix: Water | Lab File ID: UXC2973.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:47

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-070622 | Lab Sample ID: 240-169444-12

Matrix: Water | Lab File ID: UXC2974.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:11

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-070622 | Lab Sample ID: 240-169444-12

Matrix: Water | Lab File ID: UXC2974.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:11

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-070622 | Lab Sample ID: 240-169444-12

Matrix: Water | Lab File ID: UXC2974.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:11

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		62-137
2037-26-5	Toluene-d8 (Surr)	89		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-070622 | Lab Sample ID: 240-169444-12

Matrix: Water | Lab File ID: UXC2974.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:11

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-070622 | Lab Sample ID: 240-169444-13

Matrix: Water | Lab File ID: UXC2975.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:34

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-070622 | Lab Sample ID: 240-169444-13

Matrix: Water | Lab File ID: UXC2975.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:34

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-070622 | Lab Sample ID: 240-169444-13

Matrix: Water | Lab File ID: UXC2975.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:34

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		62-137
2037-26-5	Toluene-d8 (Surr)	97		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-070622 | Lab Sample ID: 240-169444-13

Matrix: Water | Lab File ID: UXC2975.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:34

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-070622 | Lab Sample ID: 240-169444-14

Matrix: Water | Lab File ID: UXC2976.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:57

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-070622 | Lab Sample ID: 240-169444-14

Matrix: Water | Lab File ID: UXC2976.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:57

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-070622 | Lab Sample ID: 240-169444-14

Matrix: Water | Lab File ID: UXC2976.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:57

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-070622 | Lab Sample ID: 240-169444-14

Matrix: Water | Lab File ID: UXC2976.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:57

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-070622 | Lab Sample ID: 240-169444-15

Matrix: Water | Lab File ID: UXC2977.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-070622 | Lab Sample ID: 240-169444-15

Matrix: Water | Lab File ID: UXC2977.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-070622 | Lab Sample ID: 240-169444-15

Matrix: Water | Lab File ID: UXC2977.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	106		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-070622 | Lab Sample ID: 240-169444-15

Matrix: Water | Lab File ID: UXC2977.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-070622 | Lab Sample ID: 240-169444-16

Matrix: Water | Lab File ID: UXC2978.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-070622 | Lab Sample ID: 240-169444-16

Matrix: Water | Lab File ID: UXC2978.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-070622 | Lab Sample ID: 240-169444-16

Matrix: Water | Lab File ID: UXC2978.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	94		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-070622 | Lab Sample ID: 240-169444-16

Matrix: Water | Lab File ID: UXC2978.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 | Lab Sample ID: 240-169444-17

Matrix: Water | Lab File ID: UXC2979.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 | Lab Sample ID: 240-169444-17

Matrix: Water | Lab File ID: UXC2979.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 | Lab Sample ID: 240-169444-17

Matrix: Water | Lab File ID: UXC2979.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	112		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		62-137
2037-26-5	Toluene-d8 (Surr)	92		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 | Lab Sample ID: 240-169444-17

Matrix: Water | Lab File ID: UXC2979.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-070622 | Lab Sample ID: 240-169444-21

Matrix: Water | Lab File ID: UXC2983.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:39

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-070622 | Lab Sample ID: 240-169444-21

Matrix: Water | Lab File ID: UXC2983.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:39

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-070622 | Lab Sample ID: 240-169444-21

Matrix: Water | Lab File ID: UXC2983.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:39

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		56-136
1868-53-7	Dibromofluoromethane (Surr)	112		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		62-137
2037-26-5	Toluene-d8 (Surr)	96		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-070622 | Lab Sample ID: 240-169444-21

Matrix: Water | Lab File ID: UXC2983.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:39

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-070622 | Lab Sample ID: 240-169444-22

Matrix: Water | Lab File ID: UXC2984.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-070622 | Lab Sample ID: 240-169444-22

Matrix: Water | Lab File ID: UXC2984.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-070622 | Lab Sample ID: 240-169444-22

Matrix: Water | Lab File ID: UXC2984.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	107		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-070622 | Lab Sample ID: 240-169444-22

Matrix: Water | Lab File ID: UXC2984.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-070622 | Lab Sample ID: 240-169444-23

Matrix: Water | Lab File ID: UXC2985.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:25

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-070622 | Lab Sample ID: 240-169444-23

Matrix: Water | Lab File ID: UXC2985.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:25

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-070622 | Lab Sample ID: 240-169444-23

Matrix: Water | Lab File ID: UXC2985.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:25

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	112		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-070622 | Lab Sample ID: 240-169444-23

Matrix: Water | Lab File ID: UXC2985.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:25

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43D-070622 | Lab Sample ID: 240-169444-24

Matrix: Water | Lab File ID: UXC2994.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:11

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:12

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43D-070622 | Lab Sample ID: 240-169444-24

Matrix: Water | Lab File ID: UXC2994.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:11

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:12

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43D-070622 | Lab Sample ID: 240-169444-24

Matrix: Water | Lab File ID: UXC2994.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:11

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:12

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	102		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		62-137
2037-26-5	Toluene-d8 (Surr)	89		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43D-070622 | Lab Sample ID: 240-169444-24

Matrix: Water | Lab File ID: UXC2994.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:11

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:12

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-070622 | Lab Sample ID: 240-169444-25

Matrix: Water | Lab File ID: UXC2995.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:35

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-070622 | Lab Sample ID: 240-169444-25

Matrix: Water | Lab File ID: UXC2995.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:35

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-070622 | Lab Sample ID: 240-169444-25

Matrix: Water | Lab File ID: UXC2995.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:35

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-070622 | Lab Sample ID: 240-169444-25

Matrix: Water | Lab File ID: UXC2995.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:35

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-070622 | Lab Sample ID: 240-169444-26

Matrix: Water | Lab File ID: UXC2996.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:12

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:58

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-070622 | Lab Sample ID: 240-169444-26

Matrix: Water | Lab File ID: UXC2996.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:12

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:58

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-070622 | Lab Sample ID: 240-169444-26

Matrix: Water | Lab File ID: UXC2996.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:12

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:58

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	107		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-070622 | Lab Sample ID: 240-169444-26

Matrix: Water | Lab File ID: UXC2996.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:12

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:58

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-070622 | Lab Sample ID: 240-169444-27

Matrix: Water | Lab File ID: UXC2997.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:22

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-070622 | Lab Sample ID: 240-169444-27

Matrix: Water | Lab File ID: UXC2997.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:22

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-070622 | Lab Sample ID: 240-169444-27

Matrix: Water | Lab File ID: UXC2997.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:22

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	81		56-136
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		62-137
2037-26-5	Toluene-d8 (Surr)	90		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-070622 | Lab Sample ID: 240-169444-27

Matrix: Water | Lab File ID: UXC2997.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:22

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-070622 | Lab Sample ID: 240-169444-28

Matrix: Water | Lab File ID: UXC2998.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:36

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-070622 | Lab Sample ID: 240-169444-28

Matrix: Water | Lab File ID: UXC2998.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:36

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-070622 | Lab Sample ID: 240-169444-28

Matrix: Water | Lab File ID: UXC2998.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:36

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		56-136
1868-53-7	Dibromofluoromethane (Surr)	112		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		62-137
2037-26-5	Toluene-d8 (Surr)	101		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-070622 | Lab Sample ID: 240-169444-28

Matrix: Water | Lab File ID: UXC2998.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:36

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622 | Lab Sample ID: 240-169444-29

Matrix: Water | Lab File ID: UXC2999.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:08

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622 | Lab Sample ID: 240-169444-29

Matrix: Water | Lab File ID: UXC2999.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:08

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622 | Lab Sample ID: 240-169444-29

Matrix: Water | Lab File ID: UXC2999.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:08

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	80		56-136
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		62-137
2037-26-5	Toluene-d8 (Surr)	90		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622 | Lab Sample ID: 240-169444-29

Matrix: Water | Lab File ID: UXC2999.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:08

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SWEQB-070622 | Lab Sample ID: 240-169444-30

Matrix: Water | Lab File ID: UXC3000.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	1.8		1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SWEQB-070622 | Lab Sample ID: 240-169444-30

Matrix: Water | Lab File ID: UXC3000.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SWEQB-070622 | Lab Sample ID: 240-169444-30

Matrix: Water | Lab File ID: UXC3000.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SWEQB-070622 | Lab Sample ID: 240-169444-30

Matrix: Water | Lab File ID: UXC3000.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Appendix C

Support Documentation

ANALYTICAL REPORT

Job Number: 240-169444-1

SDG Number: MSA Frog Mortar Creek

Job Description: MSA SW 2022

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
7/18/2022 9:39 AM

Roxanne Cisneros, Senior Project Manager
180 S. Van Buren Avenue, Barberton, OH, 44203
(615)301-5761
roxanne.cisneros@et.eurofinsus.com
07/18/2022

Job Narrative
240-169444-1

Comments
No additional comments.

Receipt
The samples were received on 7/7/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1º C.

GC/MS VOA
Methods 8260C: The continuing calibration verification (CCV) analyzed in batch 240-534172 was outside the method criteria for some 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.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-534562 was outside the method criteria for some 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.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-534342 was outside the method criteria for some 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.

Method 8260C: The method blank for preparation batch 240-534562 contained hexachlorobutadiene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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-070622 (240-169444-1), MSA-SW37B-070622 (240-169444-2), MSA-SW37C-070622 (240-169444-3), MSA-SW37D-070622 (240-169444-4), MSA-SW38A-070622 (240-169444-5), MSA-SW38B-070622 (240-169444-6), MSA-SW38C-070622 (240-169444-7), MSA-SW38D-070622 (240-169444-8), MSA-SW40A-070622 (240-169444-9), MSA-SW40B-070622 (240-169444-10), MSA-SW40C-070622 (240-169444-11), MSA-SW40D-070622 (240-169444-12), MSA-SW41A-070622 (240-169444-13), MSA-SW41B-070622 (240-169444-14), MSA-SW41C-070622 (240-169444-15), MSA-SW41D-070622 (240-169444-16), MSA-SW42A-070622 (240-169444-17), MSA-SW42B-070622 (240-169444-18), MSA-SW42C-070622 (240-169444-19), MSA-SW42D-070622 (240-169444-20), MSA-SW43A-070622 (240-169444-21), MSA-SW43B-070622 (240-169444-22), MSA-SW43C-070622 (240-169444-23), MSA-SW43D-070622 (240-169444-24), TB-070622 (240-169444-25), MSA-SW46A-070622 (240-169444-26), MSA-SW47A-070622 (240-169444-27), MSA-SW48A-070622 (240-169444-28), MSA-SW49A-070622 (240-169444-29) and MSA-SWEQB-070622 (240-169444-30). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Methods 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-534172.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-534342.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-534562.

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

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

Baltimore
#201

CANTON
180 S. VAN BUREN AVE
BARBERTON, OH, 44203

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 7/6/2022	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne Cisneros	Carrier: Fedex	1 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
PROJECT # 112IC09567	☐ 1 day			Sampler: J Mullis

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW37A-070622	7/6/2022	0932	SW	Water	3		x	
MSA-SW37B-070622	7/6/2022	0935	SW	Water	3		x	
MSA-SW37C-070622	7/6/2022	0938	SW	Water	3		x	
MSA-SW37D-070622	7/6/2022	0941	SW	Water	3		x	
MSA-SW38A-070622	7/6/2022	0841	SW	Water	3		x	
MSA-SW38B-070622	7/6/2022	0844	SW	Water	3		x	
MSA-SW38C-070622	7/6/2022	0846	SW	Water	3		x	
MSA-SW38D-070622	7/6/2022	0850	SW	Water	3		x	
MSA-SW40A-070622	7/6/2022	0900	SW	Water	3		x	
MSA-SW40B-070622	7/6/2022	0903	SW	Water	3		x	
MSA-SW40C-070622	7/6/2022	0906	SW	Water	3		x	
MSA-SW40D-070622	7/6/2022	0909	SW	Water	3		x	

240-169444 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ______ | 2

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin 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: Zach Musser Zachary Musser	Company: Tetra Tech	Date/Time: 7/6/22	Received by: [signature]	Company: EEBST	Date/Time: 7/6/22 1200
Relinquished by: [signature]	Company: EEBST	Date/Time: 7/6/22 2000	Received by: Tommy Borg	Company: EETNC	Date/Time: 7-7-22 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

CANTON
180 S. VAN BUREN AVE
BARBERTON, OH, 44203

4.1/4.1

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: 7/6/2022	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne Cisneros	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			
(301) 528-3000 FAX	☐ 2 weeks			SDG No:
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
PROJECT # 112IC09567	☐ 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-SW41A-070622	7/6/2022	0822	SW	Water	3		x	
MSA-SW41B-070622	7/6/2022	0825	SW	Water	3		x	
MSA-SW41C-070622	7/6/2022	0828	SW	Water	3		x	
MSA-SW41D-070622	7/6/2022	0832	SW	Water	3		x	
MSA-SW42A-070622	7/6/2022	0916	SW	Water	3		x	
MSA-SW42B-070622	7/6/2022	0919	SW	Water	3		x	
MSA-SW42C-070622	7/6/2022	0922	SW	Water	3		x	
MSA-SW42D-070622	7/6/2022	0926	SW	Water	3		x	
MSA-SW43A-070622	7/6/2022	0800	SW	Water	3		x	
MSA-SW43B-070622	7/6/2022	0805	SW	Water	3		x	
MSA-SW43C-070622	7/6/2022	0808	SW	Water	3		x	
MSA-SW43D-070622	7/6/2022	0811	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 ☐ Skin 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:
Zach Musser	Tetra Tech	7/6/22		EBT	7/6/22 1700
Relinquished by:	Company: EBT	Date/Time: 7/6/22 1700	Received by:	Company: ECTC	Date/Time: 7-7-22 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

02/18/2022

CANTON
180 S. VAN BUREN AVE
BARBERTON, OH, 44203

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: 7/6/2022	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne Cisneros	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			SDG No:
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			Sampler: J Mullis
PROJECT # 112IC09567	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes
TB-070622	7/6/2022	0000	SW	Water	2		x	
MSA-SW46A-070622	7/6/2022	0912	SW	Water	3		x	
MSA-SW47A-070622	7/6/2022	0859	SW	Water	3		x	
MSA-SW48A-070622	7/6/2022	0836	SW	Water	3		x	
MSA-SW49A-070622	7/6/2022	0816	SW	Water	3		x	
MSA-SWEQB-070622	7/6/2022	0000	SW	Water	3		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ | 2

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin 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:
Zach Musser Zach Musser	Tetra Tech	7/6/22			7/6/22 1700
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	RTCA	7/6/22 1700	Danny Deja	EETPC	7-7-22 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

07/18/2022

Eurofins - Canton Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client Tetra Tech Site Name_____ Cooler unpacked by: Vanessa Boyer

Cooler Received on 7-7-22 Opened on 7-7-22

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off Eurofins Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # 1A 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-13 (CF 0.0 °C) Observed Cooler Temp. 4.1 °C Corrected Cooler Temp. 4.1 °C
   IR GUN #IR-15 (CF -0.7°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)?	(Yes)	No
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# HC178690
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 # None	(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: _____

WI-NC-099

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534172/8

Matrix: Water | Lab File ID: UXC2950.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 15:54

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534172/8

Matrix: Water | Lab File ID: UXC2950.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 15:54

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534172/8

Matrix: Water | Lab File ID: UXC2950.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 15:54

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534172/8

Matrix: Water | Lab File ID: UXC2950.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 15:54

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534342/8

Matrix: Water | Lab File ID: UXC2965.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 13:41

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534342/8

Matrix: Water | Lab File ID: UXC2965.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 13:41

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534342/8

Matrix: Water | Lab File ID: UXC2965.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 13:41

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		62-137
2037-26-5	Toluene-d8 (Surr)	92		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534342/8

Matrix: Water | Lab File ID: UXC2965.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 13:41

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534562/10

Matrix: Water | Lab File ID: UXC2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534562/10

Matrix: Water | Lab File ID: UXC2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	1.19		1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534562/10

Matrix: Water | Lab File ID: UXC2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		56-136
1868-53-7	Dibromofluoromethane (Surr)	109		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	94		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534562/10

Matrix: Water | Lab File ID: UXC2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-169444-1

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-070622	240-169444-1	108	103	97	88
MSA-SW37B-070622	240-169444-2	105	103	93	86
MSA-SW37C-070622	240-169444-3	105	100	95	86
MSA-SW37D-070622	240-169444-4	103	100	91	83
MSA-SW38A-070622	240-169444-5	107	103	95	86
MSA-SW38B-070622	240-169444-6	108	102	96	88
MSA-SW38C-070622	240-169444-7	107	101	93	85
MSA-SW38D-070622	240-169444-8	105	101	92	83
MSA-SW40A-070622	240-169444-9	108	101	95	83
MSA-SW40B-070622	240-169444-10	103	98	91	82
MSA-SW40C-070622	240-169444-11	110	105	94	85
MSA-SW40D-070622	240-169444-12	104	98	89	82
MSA-SW41A-070622	240-169444-13	110	105	97	89
MSA-SW41B-070622	240-169444-14	105	101	93	83
MSA-SW41C-070622	240-169444-15	106	101	91	82
MSA-SW41D-070622	240-169444-16	110	103	94	84
MSA-SW42A-070622	240-169444-17	112	104	92	84
MSA-SW42B-070622	240-169444-18	110	105	95	83
MSA-SW42C-070622	240-169444-19	111	103	93	84
MSA-SW42D-070622	240-169444-20	111	105	96	88
MSA-SW43A-070622	240-169444-21	112	108	96	87
MSA-SW43B-070622	240-169444-22	107	101	91	82
MSA-SW43C-070622	240-169444-23	112	105	95	86
MSA-SW43D-070622	240-169444-24	102	98	89	82
TB-070622	240-169444-25	110	104	95	88
MSA-SW46A-070622	240-169444-26	107	102	93	84
MSA-SW47A-070622	240-169444-27	104	99	90	81
MSA-SW48A-070622	240-169444-28	112	107	101	92
MSA-SW49A-070622	240-169444-29	104	100	90	80
MSA-SWEQB-070622	240-169444-30	110	103	93	84
	MB 240-534172/8	105	99	91	85
	MB 240-534342/8	104	100	92	86
	MB 240-534562/10	109	101	94	87
	LCS 240-534172/5	102	97	99	98
	LCS 240-534342/5	100	92	91	88

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	73-120
DCA = 1,2-Dichloroethane-d4 (Surr)	62-137
TOL = Toluene-d8 (Surr)	78-122
BFB = 4-Bromofluorobenzene (Surr)	56-136

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-169444-1

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 #
	LCS 240-534562/8	102	94	92	88

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	73-120
DCA = 1,2-Dichloroethane-d4 (Surr)	62-137
TOL = Toluene-d8 (Surr)	78-122
BFB = 4-Bromofluorobenzene (Surr)	56-136

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2947.D

Lab ID: LCS 240-534172/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	42.1	105	50-149	
Benzene	20.0	20.6	103	77-123	
Bromobenzene	20.0	22.1	111	80-122	
Bromochloromethane	20.0	20.9	105	71-121	
Bromodichloromethane	20.0	20.7	103	69-126	
Bromoform	20.0	23.4	117	57-129	
Bromomethane	20.0	17.2	86	36-142	
2-Butanone	40.0	41.2	103	54-156	
Carbon disulfide	20.0	21.6	108	43-140	
Carbon tetrachloride	20.0	20.9	104	55-137	
Chlorobenzene	20.0	21.3	106	80-121	
Chloroethane	20.0	17.7	88	38-152	
2-Chloroethyl vinyl ether	20.0	19.9	100	40-157	
Chloroform	20.0	20.2	101	74-122	
Chloromethane	20.0	17.4	87	47-143	
2-Chlorotoluene	20.0	20.7	104	79-124	
4-Chlorotoluene	20.0	20.1	101	80-125	
cis-1,2-Dichloroethene	20.0	19.8	99	77-123	
cis-1,3-Dichloropropene	20.0	19.7	98	64-130	
Dibromochloromethane	20.0	22.6	113	70-124	
1,2-Dibromo-3-Chloropropane	20.0	19.7	98	53-135	
1,2-Dibromoethane	20.0	20.7	104	71-134	
Dibromomethane	20.0	20.8	104	67-131	
1,2-Dichlorobenzene	20.0	21.9	110	78-120	
1,3-Dichlorobenzene	20.0	21.6	108	80-120	
1,4-Dichlorobenzene	20.0	21.6	108	80-120	
Dichlorodifluoromethane	20.0	20.0	100	34-153	
1,1-Dichloroethane	20.0	19.1	96	72-127	
1,2-Dichloroethane	20.0	19.3	97	66-128	
1,1-Dichloroethene	20.0	21.1	106	63-134	
1,2-Dichloropropane	20.0	20.2	101	75-133	
1,3-Dichloropropane	20.0	20.6	103	68-139	
2,2-Dichloropropane	20.0	20.6	103	48-142	
1,1-Dichloropropene	20.0	19.8	99	71-124	
Ethylbenzene	20.0	20.5	103	80-121	
Hexachlorobutadiene	20.0	23.3	117	37-162	
2-Hexanone	40.0	37.6	94	43-167	
Isopropylbenzene	20.0	20.9	104	74-128	
Methylene Chloride	20.0	20.0	100	71-125	
4-Methyl-2-pentanone	40.0	37.2	93	46-158	
Methyl tert-butyl ether	20.0	18.9	94	65-126	
m-Xylene & p-Xylene	20.0	20.5	103	80-120	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2947.D

Lab ID: LCS 240-534172/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	18.7	94	53-138	
n-Butylbenzene	20.0	19.8	99	62-139	
n-Propylbenzene	20.0	21.3	107	76-127	
o-Xylene	20.0	20.8	104	80-123	
p-Isopropyltoluene	20.0	20.4	102	71-132	
sec-Butylbenzene	20.0	20.2	101	69-135	
Styrene	20.0	20.7	103	80-135	
tert-Butyl alcohol	200	204	102	33-153	
tert-Butylbenzene	20.0	20.4	102	64-134	
1,1,1,2-Tetrachloroethane	20.0	22.2	111	71-124	
1,1,2,2-Tetrachloroethane	20.0	21.0	105	58-157	
Tetrachloroethene	20.0	23.2	116	76-123	
Toluene	20.0	20.3	102	80-123	
trans-1,2-Dichloroethene	20.0	19.7	98	75-124	
trans-1,3-Dichloropropene	20.0	19.7	99	57-129	
1,2,3-Trichlorobenzene	20.0	22.3	111	45-149	
1,2,4-Trichlorobenzene	20.0	21.1	106	44-147	
1,1,1-Trichloroethane	20.0	19.9	99	64-131	
Trichloroethene	20.0	21.0	105	70-122	
Trichlorofluoromethane	20.0	19.6	98	30-170	
1,2,3-Trichloropropane	20.0	21.1	106	57-150	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.9	119	51-146	
1,2,4-Trimethylbenzene	20.0	20.7	104	77-129	
Vinyl acetate	20.0	23.1	116	44-145	
Vinyl chloride	20.0	18.8	94	60-144	
Xylenes, Total	40.0	41.3	103	80-121	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2962.D

Lab ID: LCS 240-534342/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	46.5	116	50-149	
Benzene	20.0	20.8	104	77-123	
Bromobenzene	20.0	21.5	107	80-122	
Bromochloromethane	20.0	20.5	103	71-121	
Bromodichloromethane	20.0	20.6	103	69-126	
Bromoform	20.0	23.2	116	57-129	
Bromomethane	20.0	17.0	85	36-142	
2-Butanone	40.0	43.1	108	54-156	
Carbon disulfide	20.0	22.0	110	43-140	
Carbon tetrachloride	20.0	21.7	108	55-137	
Chlorobenzene	20.0	21.1	106	80-121	
Chloroethane	20.0	17.5	87	38-152	
2-Chloroethyl vinyl ether	20.0	19.0	95	40-157	
Chloroform	20.0	20.4	102	74-122	
Chloromethane	20.0	17.5	87	47-143	
2-Chlorotoluene	20.0	20.4	102	79-124	
4-Chlorotoluene	20.0	19.9	99	80-125	
cis-1,2-Dichloroethene	20.0	20.6	103	77-123	
cis-1,3-Dichloropropene	20.0	19.7	98	64-130	
Dibromochloromethane	20.0	22.2	111	70-124	
1,2-Dibromo-3-Chloropropane	20.0	20.9	105	53-135	
1,2-Dibromoethane	20.0	20.9	104	71-134	
Dibromomethane	20.0	20.9	105	67-131	
1,2-Dichlorobenzene	20.0	22.0	110	78-120	
1,3-Dichlorobenzene	20.0	21.8	109	80-120	
1,4-Dichlorobenzene	20.0	21.1	105	80-120	
Dichlorodifluoromethane	20.0	20.8	104	34-153	
1,1-Dichloroethane	20.0	19.4	97	72-127	
1,2-Dichloroethane	20.0	19.6	98	66-128	
1,1-Dichloroethene	20.0	20.8	104	63-134	
1,2-Dichloropropane	20.0	20.4	102	75-133	
1,3-Dichloropropane	20.0	20.5	102	68-139	
2,2-Dichloropropane	20.0	20.8	104	48-142	
1,1-Dichloropropene	20.0	20.5	102	71-124	
Ethylbenzene	20.0	20.8	104	80-121	
Hexachlorobutadiene	20.0	24.5	122	37-162	
2-Hexanone	40.0	38.2	96	43-167	
Isopropylbenzene	20.0	20.6	103	74-128	
Methylene Chloride	20.0	20.2	101	71-125	
4-Methyl-2-pentanone	40.0	38.5	96	46-158	
Methyl tert-butyl ether	20.0	19.0	95	65-126	
m-Xylene & p-Xylene	20.0	20.6	103	80-120	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2962.D

Lab ID: LCS 240-534342/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	19.3	97	53-138	
n-Butylbenzene	20.0	19.7	98	62-139	
n-Propylbenzene	20.0	20.9	104	76-127	
o-Xylene	20.0	20.8	104	80-123	
p-Isopropyltoluene	20.0	20.3	102	71-132	
sec-Butylbenzene	20.0	20.4	102	69-135	
Styrene	20.0	20.7	104	80-135	
tert-Butyl alcohol	200	219	109	33-153	
tert-Butylbenzene	20.0	20.5	102	64-134	
1,1,1,2-Tetrachloroethane	20.0	22.0	110	71-124	
1,1,2,2-Tetrachloroethane	20.0	21.1	106	58-157	
Tetrachloroethene	20.0	23.0	115	76-123	
Toluene	20.0	20.2	101	80-123	
trans-1,2-Dichloroethene	20.0	19.9	99	75-124	
trans-1,3-Dichloropropene	20.0	19.8	99	57-129	
1,2,3-Trichlorobenzene	20.0	22.1	111	45-149	
1,2,4-Trichlorobenzene	20.0	20.6	103	44-147	
1,1,1-Trichloroethane	20.0	20.5	102	64-131	
Trichloroethene	20.0	21.6	108	70-122	
Trichlorofluoromethane	20.0	20.1	101	30-170	
1,2,3-Trichloropropane	20.0	21.4	107	57-150	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.5	118	51-146	
1,2,4-Trimethylbenzene	20.0	20.5	103	77-129	
Vinyl acetate	20.0	23.5	118	44-145	
Vinyl chloride	20.0	18.8	94	60-144	
Xylenes, Total	40.0	41.4	104	80-121	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2991.D

Lab ID: LCS 240-534562/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	44.5	111	50-149	
Benzene	20.0	20.7	104	77-123	
Bromobenzene	20.0	21.3	107	80-122	
Bromochloromethane	20.0	21.2	106	71-121	
Bromodichloromethane	20.0	20.9	105	69-126	
Bromoform	20.0	23.3	117	57-129	
Bromomethane	20.0	18.6	93	36-142	
2-Butanone	40.0	41.3	103	54-156	
Carbon disulfide	20.0	21.9	109	43-140	
Carbon tetrachloride	20.0	21.5	108	55-137	
Chlorobenzene	20.0	20.9	104	80-121	
Chloroethane	20.0	18.6	93	38-152	
2-Chloroethyl vinyl ether	20.0	18.0	90	40-157	
Chloroform	20.0	20.5	103	74-122	
Chloromethane	20.0	18.6	93	47-143	
2-Chlorotoluene	20.0	20.6	103	79-124	
4-Chlorotoluene	20.0	19.4	97	80-125	
cis-1,2-Dichloroethene	20.0	20.5	103	77-123	
cis-1,3-Dichloropropene	20.0	19.8	99	64-130	
Dibromochloromethane	20.0	22.3	111	70-124	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	53-135	
1,2-Dibromoethane	20.0	20.7	103	71-134	
Dibromomethane	20.0	21.2	106	67-131	
1,2-Dichlorobenzene	20.0	21.6	108	78-120	
1,3-Dichlorobenzene	20.0	21.0	105	80-120	
1,4-Dichlorobenzene	20.0	21.1	105	80-120	
Dichlorodifluoromethane	20.0	22.9	114	34-153	
1,1-Dichloroethane	20.0	19.5	98	72-127	
1,2-Dichloroethane	20.0	19.3	96	66-128	
1,1-Dichloroethene	20.0	21.4	107	63-134	
1,2-Dichloropropane	20.0	20.5	103	75-133	
1,3-Dichloropropane	20.0	20.2	101	68-139	
2,2-Dichloropropane	20.0	20.4	102	48-142	
1,1-Dichloropropene	20.0	20.0	100	71-124	
Ethylbenzene	20.0	20.6	103	80-121	
Hexachlorobutadiene	20.0	25.6	128	37-162	
2-Hexanone	40.0	36.7	92	43-167	
Isopropylbenzene	20.0	20.6	103	74-128	
Methylene Chloride	20.0	20.1	101	71-125	
4-Methyl-2-pentanone	40.0	37.0	92	46-158	
Methyl tert-butyl ether	20.0	18.5	93	65-126	
m-Xylene & p-Xylene	20.0	20.5	103	80-120	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2991.D

Lab ID: LCS 240-534562/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	18.8	94	53-138	
n-Butylbenzene	20.0	19.2	96	62-139	
n-Propylbenzene	20.0	20.1	100	76-127	
o-Xylene	20.0	21.0	105	80-123	
p-Isopropyltoluene	20.0	20.2	101	71-132	
sec-Butylbenzene	20.0	19.9	100	69-135	
Styrene	20.0	20.4	102	80-135	
tert-Butyl alcohol	200	218	109	33-153	
tert-Butylbenzene	20.0	20.1	100	64-134	
1,1,1,2-Tetrachloroethane	20.0	22.0	110	71-124	
1,1,2,2-Tetrachloroethane	20.0	20.1	101	58-157	
Tetrachloroethene	20.0	23.9	120	76-123	
Toluene	20.0	19.9	100	80-123	
trans-1,2-Dichloroethene	20.0	19.7	99	75-124	
trans-1,3-Dichloropropene	20.0	19.4	97	57-129	
1,2,3-Trichlorobenzene	20.0	22.1	111	45-149	
1,2,4-Trichlorobenzene	20.0	20.7	104	44-147	
1,1,1-Trichloroethane	20.0	20.6	103	64-131	
Trichloroethene	20.0	21.4	107	70-122	
Trichlorofluoromethane	20.0	21.2	106	30-170	
1,2,3-Trichloropropane	20.0	21.0	105	57-150	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	24.8	124	51-146	
1,2,4-Trimethylbenzene	20.0	19.9	99	77-129	
Vinyl acetate	20.0	23.3	116	44-145	
Vinyl chloride	20.0	19.7	98	60-144	
Xylenes, Total	40.0	41.5	104	80-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UXC2950.D Lab Sample ID: MB 240-534172/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 07/11/2022 15:54

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 240-534172/5	UXC2947.D	07/11/2022 14:45
MSA-SW37A-070622	240-169444-1	UXC2956.D	07/11/2022 18:14
MSA-SW37B-070622	240-169444-2	UXC2957.D	07/11/2022 18:38
MSA-SW37C-070622	240-169444-3	UXC2958.D	07/11/2022 19:01

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UXC2965.D Lab Sample ID: MB 240-534342/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 07/12/2022 13:41

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 240-534342/5	UXC2962.D	07/12/2022 12:31
MSA-SW37D-070622	240-169444-4	UXC2966.D	07/12/2022 14:04
MSA-SW38A-070622	240-169444-5	UXC2967.D	07/12/2022 14:28
MSA-SW38B-070622	240-169444-6	UXC2968.D	07/12/2022 14:51
MSA-SW38C-070622	240-169444-7	UXC2969.D	07/12/2022 15:14
MSA-SW38D-070622	240-169444-8	UXC2970.D	07/12/2022 15:38
MSA-SW40A-070622	240-169444-9	UXC2971.D	07/12/2022 16:01
MSA-SW40B-070622	240-169444-10	UXC2972.D	07/12/2022 16:24
MSA-SW40C-070622	240-169444-11	UXC2973.D	07/12/2022 16:47
MSA-SW40D-070622	240-169444-12	UXC2974.D	07/12/2022 17:11
MSA-SW41A-070622	240-169444-13	UXC2975.D	07/12/2022 17:34
MSA-SW41B-070622	240-169444-14	UXC2976.D	07/12/2022 17:57
MSA-SW41C-070622	240-169444-15	UXC2977.D	07/12/2022 18:20
MSA-SW41D-070622	240-169444-16	UXC2978.D	07/12/2022 18:43
MSA-SW42A-070622	240-169444-17	UXC2979.D	07/12/2022 19:07
MSA-SW42B-070622	240-169444-18	UXC2980.D	07/12/2022 19:30
MSA-SW42C-070622	240-169444-19	UXC2981.D	07/12/2022 19:53
MSA-SW42D-070622	240-169444-20	UXC2982.D	07/12/2022 20:16
MSA-SW43A-070622	240-169444-21	UXC2983.D	07/12/2022 20:39
MSA-SW43B-070622	240-169444-22	UXC2984.D	07/12/2022 21:02
MSA-SW43C-070622	240-169444-23	UXC2985.D	07/12/2022 21:25

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UXC2993.D Lab Sample ID: MB 240-534562/10

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 07/13/2022 15:49

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 240-534562/8	UXC2991.D	07/13/2022 15:02
MSA-SW43D-070622	240-169444-24	UXC2994.D	07/13/2022 16:12
TB-070622	240-169444-25	UXC2995.D	07/13/2022 16:35
MSA-SW46A-070622	240-169444-26	UXC2996.D	07/13/2022 16:58
MSA-SW47A-070622	240-169444-27	UXC2997.D	07/13/2022 17:22
MSA-SW48A-070622	240-169444-28	UXC2998.D	07/13/2022 17:45
MSA-SW49A-070622	240-169444-29	UXC2999.D	07/13/2022 18:08
MSA-SWEQB-070622	240-169444-30	UXC3000.D	07/13/2022 18:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1270.D BFB Injection Date: 06/17/2022

Instrument ID: A3UX15 BFB Injection Time: 14:42

Analysis Batch No.: 531220

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.4	(0.6) 1
174	Greater than 50% of mass 95	76.0	
175	5.0 - 9.0 % of mass 174	5.8	(7.6) 1
176	95.0 - 101.0 % of mass 174	75.0	(98.6) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-531220/9	UXC2434.D	06/17/2022	15:29
	STD8260 240-531220/10	UXC2435.D	06/17/2022	15:53
	STD8260 240-531220/11	UXC2436.D	06/17/2022	16:16
	STD8260 240-531220/12	UXC2437.D	06/17/2022	16:40
	ICIS 240-531220/13	UXC2438.D	06/17/2022	17:03
	STD8260 240-531220/14	UXC2439.D	06/17/2022	17:27
	STD8260 240-531220/15	UXC2440.D	06/17/2022	17:50
	STD8260 240-531220/16	UXC2441.D	06/17/2022	18:14
	ICV 240-531220/18	UXC2443.D	06/17/2022	19:01
	STDA9 240-531220/21	UXC2446.D	06/17/2022	20:12
	STDA9 240-531220/22	UXC2447.D	06/17/2022	20:35
	STDA9 240-531220/23	UXC2448.D	06/17/2022	20:59
	STDA9 240-531220/24	UXC2449.D	06/17/2022	21:22
	STDA9 240-531220/25	UXC2450.D	06/17/2022	21:46
	STDA9 240-531220/26	UXC2451.D	06/17/2022	22:10
	STDA9 240-531220/27	UXC2452.D	06/17/2022	22:33
	ICV 240-531220/29	UXC2454.D	06/17/2022	23:21

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1290.D BFB Injection Date: 07/11/2022

Instrument ID: A3UX15 BFB Injection Time: 13:35

Analysis Batch No.: 534172

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	47.3	
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	0.7	(0.8) 1
174	Greater than 50% of mass 95	86.0	
175	5.0 - 9.0 % of mass 174	6.6	(7.6) 1
176	95.0 - 101.0 % of mass 174	83.4	(97.0) 1
177	5.0 - 9.0 % of mass 176	5.4	(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
	CCV 240-534172/3	UXC2945.D	07/11/2022	13:58
	CCVIS 240-534172/4	UXC2946.D	07/11/2022	14:21
	LCS 240-534172/5	UXC2947.D	07/11/2022	14:45
	MB 240-534172/8	UXC2950.D	07/11/2022	15:54
MSA-SW37A-070622	240-169444-1	UXC2956.D	07/11/2022	18:14
MSA-SW37B-070622	240-169444-2	UXC2957.D	07/11/2022	18:38
MSA-SW37C-070622	240-169444-3	UXC2958.D	07/11/2022	19:01

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1291.D BFB Injection Date: 07/12/2022

Instrument ID: A3UX15 BFB Injection Time: 11:22

Analysis Batch No.: 534342

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.9	
75	30.0 - 60.0 % of mass 95	48.7	
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	79.0	
175	5.0 - 9.0 % of mass 174	5.8	(7.4) 1
176	95.0 - 101.0 % of mass 174	77.9	(98.6) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.3) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-534342/3	UXC2960.D	07/12/2022	11:45
	CCVIS 240-534342/4	UXC2961.D	07/12/2022	12:08
	LCS 240-534342/5	UXC2962.D	07/12/2022	12:31
	MB 240-534342/8	UXC2965.D	07/12/2022	13:41
MSA-SW37D-070622	240-169444-4	UXC2966.D	07/12/2022	14:04
MSA-SW38A-070622	240-169444-5	UXC2967.D	07/12/2022	14:28
MSA-SW38B-070622	240-169444-6	UXC2968.D	07/12/2022	14:51
MSA-SW38C-070622	240-169444-7	UXC2969.D	07/12/2022	15:14
MSA-SW38D-070622	240-169444-8	UXC2970.D	07/12/2022	15:38
MSA-SW40A-070622	240-169444-9	UXC2971.D	07/12/2022	16:01
MSA-SW40B-070622	240-169444-10	UXC2972.D	07/12/2022	16:24
MSA-SW40C-070622	240-169444-11	UXC2973.D	07/12/2022	16:47
MSA-SW40D-070622	240-169444-12	UXC2974.D	07/12/2022	17:11
MSA-SW41A-070622	240-169444-13	UXC2975.D	07/12/2022	17:34
MSA-SW41B-070622	240-169444-14	UXC2976.D	07/12/2022	17:57
MSA-SW41C-070622	240-169444-15	UXC2977.D	07/12/2022	18:20
MSA-SW41D-070622	240-169444-16	UXC2978.D	07/12/2022	18:43
MSA-SW42A-070622	240-169444-17	UXC2979.D	07/12/2022	19:07
MSA-SW42B-070622	240-169444-18	UXC2980.D	07/12/2022	19:30
MSA-SW42C-070622	240-169444-19	UXC2981.D	07/12/2022	19:53
MSA-SW42D-070622	240-169444-20	UXC2982.D	07/12/2022	20:16
MSA-SW43A-070622	240-169444-21	UXC2983.D	07/12/2022	20:39
MSA-SW43B-070622	240-169444-22	UXC2984.D	07/12/2022	21:02
MSA-SW43C-070622	240-169444-23	UXC2985.D	07/12/2022	21:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1294.D BFB Injection Date: 07/13/2022

Instrument ID: A3UX15 BFB Injection Time: 12:41

Analysis Batch No.: 534562

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.5	
75	30.0 - 60.0 % of mass 95	48.7	
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	0.6	(0.7) 1
174	Greater than 50% of mass 95	85.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.1) 1
176	95.0 - 101.0 % of mass 174	81.5	(95.8) 1
177	5.0 - 9.0 % of mass 176	5.6	(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
	CCV 240-534562/3	UXC2986.D	07/13/2022	13:06
	CCVIS 240-534562/7	UXC2990.D	07/13/2022	14:39
	LCS 240-534562/8	UXC2991.D	07/13/2022	15:02
	MB 240-534562/10	UXC2993.D	07/13/2022	15:49
MSA-SW43D-070622	240-169444-24	UXC2994.D	07/13/2022	16:12
TB-070622	240-169444-25	UXC2995.D	07/13/2022	16:35
MSA-SW46A-070622	240-169444-26	UXC2996.D	07/13/2022	16:58
MSA-SW47A-070622	240-169444-27	UXC2997.D	07/13/2022	17:22
MSA-SW48A-070622	240-169444-28	UXC2998.D	07/13/2022	17:45
MSA-SW49A-070622	240-169444-29	UXC2999.D	07/13/2022	18:08
MSA-SWEQB-070622	240-169444-30	UXC3000.D	07/13/2022	18:31

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Sample No.: ICIS 240-531220/13 Date Analyzed: 06/17/2022 17:03

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2438.D Heated Purge: (Y/N) N

Calibration ID: 66322

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1012688	5.93	738465	8.45	356681	10.58
UPPER LIMIT		2025376	6.43	1476930	8.95	713362	11.08
LOWER LIMIT		506344	5.43	369233	7.95	178341	10.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-531220/18		1011430	5.93	740290	8.45	362318	10.58
CCVIS 240-534172/4		862850	5.93	615366	8.45	305859	10.57
CCVIS 240-534342/4		858814	5.92	622982	8.45	317017	10.57
CCVIS 240-534562/7		869658	5.93	637387	8.45	335395	10.57

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-534172/4 Date Analyzed: 07/11/2022 14:21

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2946.D Heated Purge: (Y/N) N

Calibration ID: 66326

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		862850	5.93	615366	8.45	305859	10.57
UPPER LIMIT		1725700	6.43	1230732	8.95	611718	11.07
LOWER LIMIT		431425	5.43	307683	7.95	152930	10.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-534172/5		918595	5.93	667529	8.45	331255	10.57
MB 240-534172/8		820789	5.93	616954	8.45	271275	10.57
240-169444-1	MSA-SW37A-070622	769813	5.92	554430	8.45	254983	10.57
240-169444-2	MSA-SW37B-070622	801562	5.93	595883	8.45	272392	10.57
240-169444-3	MSA-SW37C-070622	789540	5.93	572725	8.45	268666	10.57

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-534342/4 Date Analyzed: 07/12/2022 12:08

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2961.D Heated Purge: (Y/N) N

Calibration ID: 66326

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		858814	5.92	622982	8.45	317017	10.57
UPPER LIMIT		1717628	6.42	1245964	8.95	634034	11.07
LOWER LIMIT		429407	5.42	311491	7.95	158509	10.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-534342/5		898890	5.93	672368	8.45	335502	10.57
MB 240-534342/8		822032	5.93	606659	8.45	289873	10.57
240-169444-4	MSA-SW37D-070622	797196	5.93	588409	8.45	274329	10.57
240-169444-5	MSA-SW38A-070622	808700	5.93	592645	8.45	275645	10.57
240-169444-6	MSA-SW38B-070622	779951	5.93	571579	8.45	268122	10.57
240-169444-7	MSA-SW38C-070622	771799	5.93	562068	8.45	249564	10.57
240-169444-8	MSA-SW38D-070622	784408	5.93	584586	8.45	263427	10.57
240-169444-9	MSA-SW40A-070622	780325	5.93	567373	8.45	246277	10.57
240-169444-10	MSA-SW40B-070622	789029	5.93	577100	8.45	274546	10.57
240-169444-11	MSA-SW40C-070622	760744	5.93	567945	8.45	251370	10.57
240-169444-12	MSA-SW40D-070622	783113	5.93	584505	8.45	270337	10.57
240-169444-13	MSA-SW41A-070622	774923	5.93	565040	8.45	259056	10.57
240-169444-14	MSA-SW41B-070622	789702	5.93	590587	8.45	276429	10.57
240-169444-15	MSA-SW41C-070622	767592	5.93	566168	8.45	263072	10.57
240-169444-16	MSA-SW41D-070622	772230	5.93	566792	8.45	262536	10.57
240-169444-17	MSA-SW42A-070622	750823	5.93	568486	8.45	258867	10.57
240-169444-18	MSA-SW42B-070622	741399	5.93	548501	8.45	238875	10.57
240-169444-19	MSA-SW42C-070622	760038	5.93	568005	8.45	260888	10.57
240-169444-20	MSA-SW42D-070622	734296	5.93	536694	8.45	247476	10.57
240-169444-21	MSA-SW43A-070622	749074	5.93	541892	8.45	250793	10.57
240-169444-22	MSA-SW43B-070622	793093	5.93	595433	8.45	276105	10.57
240-169444-23	MSA-SW43C-070622	751265	5.93	558570	8.45	263441	10.57

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-534562/7 Date Analyzed: 07/13/2022 14:39

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2990.D Heated Purge: (Y/N) N

Calibration ID: 66326

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		869658	5.93	637387	8.45	335395	10.57
UPPER LIMIT		1739316	6.43	1274774	8.95	670790	11.07
LOWER LIMIT		434829	5.43	318694	7.95	167698	10.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-534562/8		881908	5.93	655464	8.45	335247	10.57
MB 240-534562/10		812152	5.93	600978	8.45	283277	10.57
240-169444-24	MSA-SW43D-070622	813070	5.93	603396	8.45	284243	10.57
240-169444-25	TB-070622	805972	5.93	603541	8.45	276522	10.57
240-169444-26	MSA-SW46A-070622	772951	5.93	569803	8.45	254612	10.57
240-169444-27	MSA-SW47A-070622	806425	5.93	599471	8.45	276475	10.57
240-169444-28	MSA-SW48A-070622	779659	5.93	566708	8.45	260325	10.57
240-169444-29	MSA-SW49A-070622	793926	5.93	594391	8.45	281341	10.57
240-169444-30	MSA-SWEQB-070622	786039	5.93	581391	8.45	279216	10.57

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton | Job No.: 240-169444-1 | Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 | Calibration End Date: 06/17/2022 18:14 | Calibration ID: 66322

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-531220/9	UXC2434.D
Level 2	STD8260 240-531220/10	UXC2435.D
Level 3	STD8260 240-531220/11	UXC2436.D
Level 4	STD8260 240-531220/12	UXC2437.D
Level 5	ICIS 240-531220/13	UXC2438.D
Level 6	STD8260 240-531220/14	UXC2439.D
Level 7	STD8260 240-531220/15	UXC2440.D
Level 8	STD8260 240-531220/16	UXC2441.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	0.1868 0.2174	0.1537 0.2287	0.1755 0.2236	0.2222	0.2206	Ave		0.2036			0.1000	13.7		20.0			
Chloromethane	0.3145 0.2564	0.2521 0.2557	0.2598 0.2518	0.2530	0.2626	Ave		0.2633			0.1000	8.0		20.0			
Vinyl chloride	0.2617 0.2732	0.2593 0.2762	0.2557 0.2758	0.2749	0.2800	Ave		0.2696			0.1000	3.4		20.0			
Butadiene	0.2846 0.2842	0.2281 0.2785	0.2542 0.2772	0.2899	0.2765	Ave		0.2717				7.6		20.0			
Bromomethane	+++++ 0.2114	0.2112 0.2248	0.1989 0.2277	0.1953	0.1983	Ave		0.2097			0.0500	6.2		20.0			
Chloroethane	0.2000 0.2039	0.1646 0.2160	0.1831 0.2189	0.1815	0.1971	Ave		0.1956			0.0500	9.4		20.0			
Dichlorofluoromethane	0.5137 0.4488	0.3953 0.4696	0.3907 0.4655	0.4237	0.4403	Ave		0.4434				9.2		20.0			
Trichlorofluoromethane	+++++ 0.4029	0.3031 0.4225	0.2944 0.4178	0.3807	0.3960	Ave		0.3739			0.1000	14.2		20.0			
Ethyl ether	0.1979 0.2057	0.1803 0.2142	0.1963 0.2054	0.1918	0.2033	Ave		0.1994				5.2		20.0			
Acrolein	0.0292 0.0260	0.0230 0.0280	0.0201 0.0249	0.0233	0.0237	Ave		0.0248				11.8		20.0			
1,1-Dichloroethene	0.1989 0.2057	0.1937 0.2083	0.1900 0.2092	0.1960	0.2020	Ave		0.2005			0.1000	3.5		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1082 0.1508	0.1121 0.1565	0.1192 0.1586	0.1413	0.1523	Ave		0.1374			0.0500	15.2		20.0			
Acetone	+++++ 0.0808	0.1489 0.0783	0.1139 0.0649	0.0781	0.0767	Lin1	0.1653	0.0715			0.0100	8.2			0.9910		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 Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	0.3155 0.3367	0.2955 0.3430	0.3070 0.3471	0.3119	0.3270	Ave		0.3230				5.7		20.0			
Carbon disulfide	0.6031 0.5930	0.5341 0.6112	0.5512 0.6111	0.5703	0.6085	Ave		0.5853			0.1000	5.1		20.0			
Methyl acetate	0.2753 0.2447	0.2527 0.2494	0.2347 0.2340	0.2299	0.2398	Ave		0.2451			0.1000	5.9		20.0			
3-Chloro-1-propene	0.1496 0.1770	0.1437 0.1783	0.1414 0.1771	0.1552	0.1672	Ave		0.1612				9.7		20.0			
Methylene Chloride	+++++ 0.2283	0.3639 0.2349	0.2978 0.2298	0.2264	0.2340	Lin1	0.1274	0.2283			0.1000	3.6			1.0000		0.9900
tert-Butyl alcohol	0.0291 0.0291	0.0279 0.0284	0.0286 0.0220	0.0266	0.0284	Ave		0.0275				8.6		20.0			
Acrylonitrile	0.1017 0.1083	0.0918 0.1099	0.0968 0.1002	0.1015	0.1021	Ave		0.1016				5.7		20.0			
Methyl tert-butyl ether	0.6655 0.7086	0.6114 0.7401	0.6317 0.7172	0.6564	0.6842	Ave		0.6769			0.1000	6.5		20.0			
trans-1,2-Dichloroethene	0.3142 0.2619	0.2694 0.2646	0.2486 0.2617	0.2411	0.2555	Ave		0.2646			0.1000	8.3		20.0			
Hexane	0.0608 0.0657	0.0538 0.0692	0.0459 0.0663	0.0600	0.0649	Ave		0.0609				12.6		20.0			
Vinyl acetate	0.4354 0.3478	0.3757 0.3874	0.3949 0.3232	0.3627	0.3558	Ave		0.3729				9.1		20.0			
1,1-Dichloroethane	0.4409 0.4518	0.3885 0.4640	0.3976 0.4498	0.4188	0.4477	Ave		0.4324			0.2000	6.4		20.0			
2-Butanone	+++++ 0.0423	0.0466 0.0430	0.0428 0.0386	0.0411	0.0405	Ave		0.0421			0.0100	5.9		20.0			
cis-1,2-Dichloroethene	0.2445 0.2772	0.2702 0.2847	0.2533 0.2803	0.2623	0.2686	Ave		0.2676			0.1000	5.1		20.0			
2,2-Dichloropropane	+++++ 0.0577	0.0536 0.0569	0.0574 0.0564	0.0589	0.0585	Ave		0.0570				3.1		20.0			
Bromochloromethane	0.1399 0.1340	0.1136 0.1397	0.1167 0.1371	0.1222	0.1333	Ave		0.1296				8.1		20.0			
Tetrahydrofuran	0.1246 0.1020	0.1033 0.1037	0.0974 0.0926	0.0962	0.1008	Ave		0.1026				9.5		20.0			
Chloroform	0.4068 0.4356	0.3911 0.4478	0.3909 0.4419	0.4182	0.4314	Ave		0.4205			0.2000	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 Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	0.3565 0.3792	0.3191 0.3932	0.3268 0.3806	0.3567	0.3810	Ave		0.3616			0.1000	7.5		20.0			
Cyclohexane	0.3474 0.3881	0.3138 0.3905	0.3380 0.3938	0.3740	0.3920	Ave		0.3672			0.1000	8.3		20.0			
1,1-Dichloropropene	0.3542 0.3699	0.3346 0.3813	0.3206 0.3739	0.3531	0.3672	Ave		0.3568				5.8		20.0			
Carbon tetrachloride	0.2982 0.3498	0.2900 0.3612	0.3019 0.3582	0.3182	0.3405	Ave		0.3272			0.1000	8.8		20.0			
Isobutyl alcohol	0.0109 0.0117	0.0106 0.0117	0.0109 0.0099	0.0111	0.0115	Ave		0.0110				5.5		20.0			
Benzene	0.9994 1.0226	0.8954 1.0625	0.9331 1.0513	0.9573	1.0171	Ave		0.9923			0.5000	5.9		20.0			
1,2-Dichloroethane	0.3402 0.3475	0.3138 0.3496	0.3178 0.3388	0.3275	0.3396	Ave		0.3343			0.1000	4.0		20.0			
n-Heptane	+++++ 0.0574	0.0522 0.0591	0.0455 0.0593	0.0544	0.0593	Ave		0.0553				9.3		20.0			
Trichloroethene	0.2746 0.2925	0.2485 0.3031	0.2587 0.2977	0.2724	0.2868	Ave		0.2793			0.1500	6.9		20.0			
Methylcyclohexane	0.2952 0.3949	0.2869 0.4005	0.3213 0.3989	0.3692	0.3929	Ave		0.3575			0.1000	13.6		20.0			
1,2-Dichloropropane	0.2281 0.2387	0.2168 0.2452	0.2233 0.2416	0.2299	0.2356	Ave		0.2324			0.1000	4.2		20.0			
1,4-Dioxane	0.0020 0.0027	0.0020 0.0026	0.0023 0.0020	0.0025	0.0028	Ave		0.0024				14.2		20.0			
Dibromomethane	0.1602 0.1513	0.1382 0.1527	0.1407 0.1469	0.1416	0.1467	Ave		0.1473				5.0		20.0			
Bromodichloromethane	0.3251 0.3245	0.2693 0.3363	0.2813 0.3240	0.3000	0.3061	Ave		0.3083			0.1500	7.6		20.0			
2-Chloroethyl vinyl ether	0.1874 0.1773	0.1593 0.1933	0.1523 0.1806	0.1650	0.1777	Ave		0.1741				8.1		20.0			
cis-1,3-Dichloropropene	0.3494 0.3972	0.3430 0.4194	0.3520 0.4023	0.3649	0.3927	Ave		0.3776			0.1500	7.6		20.0			
4-Methyl-2-pentanone	0.3345 0.3161	0.2854 0.3306	0.3139 0.3017	0.2976	0.3160	Ave		0.3120			0.0500	5.3		20.0			
Toluene	1.5764 1.5141	1.3418 1.5862	1.3977 1.5302	1.4475	1.4945	Ave		1.4860			0.4000	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
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	0.5071 0.5066	0.4253 0.5477	0.4391 0.5198	0.4725	0.4930	Ave		0.4889			0.1000	8.4		20.0			
Ethyl methacrylate	0.4708 0.4842	0.4487 0.5217	0.4251 0.4826	0.4496	0.4723	Ave		0.4694				6.2		20.0			
1,1,2-Trichloroethane	0.3039 0.2907	0.2673 0.3099	0.2601 0.2939	0.2778	0.2865	Ave		0.2863			0.1000	6.0		20.0			
Tetrachloroethene	0.2774 0.3044	0.2507 0.3304	0.2602 0.3197	0.2784	0.2927	Ave		0.2892			0.1500	9.7		20.0			
1,3-Dichloropropane	0.4904 0.5131	0.4789 0.5541	0.4648 0.5224	0.4951	0.5184	Ave		0.5046				5.6		20.0			
2-Hexanone	0.3401 0.3300	0.3078 0.3483	0.3022 0.3134	0.3112	0.3279	Ave		0.3226			0.0500	5.1		20.0			
Dibromochloromethane	0.3086 0.3323	0.2756 0.3554	0.2947 0.3400	0.2971	0.3203	Ave		0.3155				8.4		20.0			
1,2-Dibromoethane	0.3294 0.3154	0.2762 0.3381	0.2911 0.3188	0.2945	0.3160	Ave		0.3099				6.7		20.0			
Chlorobenzene	0.9137 0.9311	0.8520 0.9936	0.8555 0.9522	0.8755	0.9274	Ave		0.9126			0.3000	5.4		20.0			
1,1,1,2-Tetrachloroethane	0.2944 0.3147	0.2516 0.3301	0.2636 0.3197	0.2933	0.3148	Ave		0.2978				9.4		20.0			
Ethylbenzene	0.4775 0.5222	0.4717 0.5570	0.4496 0.5320	0.4964	0.5150	Ave		0.5027				7.0		20.0			
m-Xylene & p-Xylene	1.1512 1.2265	1.0625 1.3004	1.0639 1.2378	1.1741	1.2483	Ave		1.1831				7.3		20.0			
o-Xylene	0.5852 0.5876	0.5015 0.6159	0.5260 0.5930	0.5640	0.5789	Ave		0.5690				6.6		20.0			
Styrene	0.9774 1.0179	0.8215 1.0792	0.8863 1.0297	0.9595	0.9962	Ave		0.9710			0.3000	8.5		20.0			
Bromoform	0.2236 0.2481	0.1819 0.2670	0.1909 0.2603	0.2056	0.2262	Ave		0.2255			0.1000	14.0		20.0			
Isopropylbenzene	1.3230 1.4855	1.2324 1.5438	1.2881 1.5068	1.3701	1.4566	Ave		1.4008			0.1000	8.1		20.0			
1,1,2,2-Tetrachloroethane	0.8910 0.7602	0.7471 0.7967	0.8080 0.7467	0.7768	0.7723	Ave		0.7873			0.3000	6.0		20.0			
trans-1,4-Dichloro-2-butene	0.3067 0.2840	0.2742 0.3055	0.2703 0.2810	0.2767	0.2853	Ave		0.2855				4.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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								
Bromobenzene	0.7672 0.7715	0.6805 0.8269	0.6740 0.8004	0.7195	0.7537	Ave		0.7492				7.3		20.0			
1,2,3-Trichloropropane	0.2818 0.2832	0.2655 0.2980	0.2615 0.2778	0.2773	0.2764	Ave		0.2777				4.0		20.0			
n-Propylbenzene	0.8535 0.8327	0.7081 0.8837	0.7455 0.8470	0.8039	0.8509	Ave		0.8157				7.4		20.0			
2-Chlorotoluene	0.6598 0.7010	0.6273 0.7387	0.6634 0.7071	0.6995	0.7048	Ave		0.6877				5.1		20.0			
1,3,5-Trimethylbenzene	2.2752 2.2621	2.0269 2.3454	2.1364 2.2634	2.2022	2.2711	Ave		2.2228				4.5		20.0			
4-Chlorotoluene	2.2655 2.1287	1.9470 2.2229	1.9944 2.1152	2.0970	2.1345	Ave		2.1132				5.0		20.0			
tert-Butylbenzene	1.9897 1.9658	1.7790 2.0435	1.8491 1.9863	1.9269	1.9610	Ave		1.9377				4.4		20.0			
1,2,4-Trimethylbenzene	2.3037 2.2553	1.9195 2.3352	2.0703 2.2369	2.2518	2.2861	Ave		2.2073				6.4		20.0			
sec-Butylbenzene	2.6404 2.6263	2.2102 2.7083	2.3306 2.6336	2.5215	2.6373	Ave		2.5385				6.9		20.0			
1,3-Dichlorobenzene	1.3031 1.3192	1.1686 1.3931	1.2024 1.3440	1.2179	1.2867	Ave		1.2794			0.6000	6.0		20.0			
p-Isopropyltoluene	2.2483 2.2550	1.8537 2.3555	2.0103 2.2842	2.1538	2.2355	Ave		2.1745				7.6		20.0			
1,4-Dichlorobenzene	1.3524 1.3269	1.2229 1.4163	1.2118 1.3576	1.2797	1.3065	Ave		1.3093			0.5000	5.3		20.0			
n-Butylbenzene	1.7357 1.7766	1.5386 1.8373	1.6570 1.7688	1.7237	1.8019	Ave		1.7300				5.5		20.0			
1,2-Dichlorobenzene	1.1685 1.1476	1.0615 1.2271	1.0796 1.1856	1.0831	1.1292	Ave		1.1352			0.4000	5.1		20.0			
1,2-Dibromo-3-Chloropropane	0.2020 0.1935	0.2052 0.2046	0.1998 0.2002	0.1776	0.1867	Ave		0.1962			0.0500	4.9		20.0			
1,2,4-Trichlorobenzene	0.5544 0.5111	0.4656 0.5418	0.4771 0.5868	0.4662	0.4932	Ave		0.5120			0.2000	8.8		20.0			
Hexachlorobutadiene	0.2431 0.2295	0.1889 0.2513	0.2214 0.2693	0.2021	0.2293	Ave		0.2294				11.3		20.0			
Naphthalene	1.9588 1.8204	1.6168 1.9110	1.7029 2.0770	1.6863	1.7805	Ave		1.8192				8.5		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 Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	0.4653 0.4569	0.3940 0.4902	0.3998 0.5380	0.3990	0.4277	Ave		0.4464				11.5		20.0			
Dibromofluoromethane (Surr)	+++++ 0.2326	0.2177 0.2501	0.2162 0.2447	0.2280	0.2350	Ave		0.2320				5.5		20.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2793	0.3155 0.2965	0.2840 0.2867	0.2904	0.2852	Ave		0.2911				4.1		20.0			
Toluene-d8 (Surr)	+++++ 1.2670	1.3977 1.3999	1.3209 1.3575	1.3217	1.2934	Ave		1.3369				3.8		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.4215	0.5998 0.4603	0.4770 0.4402	0.4377	0.4321	Ave		0.4669				13.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 20:12 Calibration End Date: 06/17/2022 22:33 Calibration ID: 66326

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-531220/21	UXC2446.D
Level 2	STDA9 240-531220/22	UXC2447.D
Level 3	STDA9 240-531220/23	UXC2448.D
Level 4	STDA9 240-531220/24	UXC2449.D
Level 5	STDA9 240-531220/25	UXC2450.D
Level 6	STDA9 240-531220/26	UXC2451.D
Level 7	STDA9 240-531220/27	UXC2452.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0322 0.0286	0.0281 0.0288	0.0228	0.0260	0.0289	Ave		0.0279				10.4		20.0			
Diisopropyl ether	0.2166 0.2197	0.2641 0.2164	0.2236	0.2078	0.2190	Ave		0.2239				8.2		20.0			
2-Chloro-1,3-butadiene	0.4251 0.4152	0.4663 0.4096	0.4305	0.3931	0.4146	Ave		0.4220				5.4		20.0			
Ethyl-t-butyl ether (ETBE)	0.7824 0.7206	0.8083 0.7228	0.7533	0.6923	0.7240	Ave		0.7434				5.4		20.0			
Ethyl acetate	0.3527 0.3164	0.3743 0.2978	0.3212	0.2962	0.3017	Ave		0.3229				9.3		20.0			
Propionitrile	0.0436 0.0447	0.0458 0.0444	0.0470	0.0422	0.0448	Ave		0.0447				3.4		20.0			
Methacrylonitrile	0.2028 0.1989	0.2107 0.1928	0.2005	0.1916	0.1973	Ave		0.1993				3.2		20.0			
Tert-amyl-methyl ether (TAME)	0.7113 0.7439	0.8233 0.7362	0.7568	0.6934	0.7380	Ave		0.7433				5.5		20.0			
n-Butanol	0.0127 0.0118	0.0113 0.0118	0.0117	0.0104	0.0118	Ave		0.0116				5.9		20.0			
Methyl methacrylate	0.3221 0.2645	0.2966 0.2589	0.2781	0.2578	0.2602	Ave		0.2769				8.8		20.0			
2-Nitropropane	0.1107 0.0950	0.1018 0.0935	0.0955	0.0892	0.0967	Ave		0.0975				7.1		20.0			
n-Butyl acetate	0.5073 0.4467	0.5074 0.4342	0.4557	0.4309	0.4401	Ave		0.4603				7.2		20.0			
1-Chlorohexane	0.5315 0.4525	0.5305 0.4552	0.4787	0.4263	0.4790	Ave		0.4791				8.3		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 Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 20:12 Calibration End Date: 06/17/2022 22:33 Calibration ID: 66326

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.0354 0.0297	0.0353 0.0288	0.0342	0.0273	0.0310	Ave		0.0317				10.3		20.0			
Pentachloroethane	+++++ 0.0164	0.0374 0.0083	0.0150	0.0102	0.0226	Ave		0.0183				57.9	*	20.0			
1,2,3-Trimethylbenzene	2.2656 2.4239	2.6303 2.3168	2.5665	2.2092	2.4668	Ave		2.4113				6.5		20.0			
Benzyl chloride	0.2609 0.3135	0.3094 0.2969	0.3001	0.2697	0.3057	Ave		0.2937				6.9		20.0			
1,3,5-Trichlorobenzene	0.5912 0.6267	0.7470 0.6198	0.6553	0.5641	0.6139	Ave		0.6311				9.3		20.0			
2-Methylnaphthalene	0.8466 1.1785	0.9513 1.2060	0.9839	0.8598	1.0361	Ave		1.0089				14.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/18 Calibration Date: 06/17/2022 19:01

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2443.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	0.2036	0.1839	0.1000	0.0181	0.0200	-9.7	30.0
Chloromethane	Ave	0.2633	0.2378	0.1000	0.0181	0.0200	-9.7	30.0
Vinyl chloride	Ave	0.2696	0.2630	0.1000	0.0195	0.0200	-2.4	30.0
Butadiene	Ave	0.2717	0.2364		0.0174	0.0200	-13.0	30.0
Bromomethane	Ave	0.2097	0.1877	0.0500	0.0179	0.0200	-10.5	30.0
Chloroethane	Ave	0.1956	0.1852	0.0500	0.0189	0.0200	-5.3	30.0
Dichlorofluoromethane	Ave	0.4434	0.4178		0.0188	0.0200	-5.8	30.0
Trichlorofluoromethane	Ave	0.3739	0.3773	0.1000	0.0202	0.0200	0.9	30.0
Ethyl ether	Ave	0.1994	0.2070		0.0208	0.0200	3.8	30.0
Acrolein	Ave	0.0248	0.0254		0.103	0.100	2.7	30.0
1,1-Dichloroethene	Ave	0.2005	0.2121	0.1000	0.0212	0.0200	5.8	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1374	0.1553	0.0500	0.0226	0.0200	13.1	30.0
Acetone	Lin1		0.0736	0.0100	0.0389	0.0400	-2.8	50.0
Iodomethane	Ave	0.3230	0.3615		0.0224	0.0200	11.9	30.0
Carbon disulfide	Ave	0.5853	0.6445	0.1000	0.0220	0.0200	10.1	30.0
Methyl acetate	Ave	0.2451	0.2308	0.1000	0.0377	0.0400	-5.8	50.0
3-Chloro-1-propene	Ave	0.1612	0.1608		0.0200	0.0200	-0.2	30.0
Methylene Chloride	Lin1		0.2370	0.1000	0.0202	0.0200	1.0	50.0
tert-Butyl alcohol	Ave	0.0275	0.0276		0.200	0.200	0.2	30.0
Acrylonitrile	Ave	0.1016	0.1050		0.207	0.200	3.4	30.0
Methyl tert-butyl ether	Ave	0.6769	0.6902	0.1000	0.0204	0.0200	2.0	30.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2566	0.1000	0.0194	0.0200	-3.0	30.0
Hexane	Ave	0.0609	0.0618		0.0203	0.0200	1.5	30.0
Vinyl acetate	Ave	0.3729	0.3208		0.0172	0.0200	-14.0	30.0
1,1-Dichloroethane	Ave	0.4324	0.4304	0.2000	0.0199	0.0200	-0.5	30.0
2-Butanone	Ave	0.0421	0.0401	0.0100	0.0381	0.0400	-4.8	50.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2702	0.1000	0.0202	0.0200	0.9	30.0
2,2-Dichloropropane	Ave	0.0570	0.0572		0.0201	0.0200	0.3	30.0
Bromochloromethane	Ave	0.1296	0.1278		0.0197	0.0200	-1.4	30.0
Tetrahydrofuran	Ave	0.1026	0.0983		0.0383	0.0400	-4.2	30.0
Chloroform	Ave	0.4205	0.4258	0.2000	0.0203	0.0200	1.3	30.0
1,1,1-Trichloroethane	Ave	0.3616	0.3708	0.1000	0.0205	0.0200	2.5	30.0
Cyclohexane	Ave	0.3672	0.3831	0.1000	0.0209	0.0200	4.3	30.0
1,1-Dichloropropene	Ave	0.3568	0.3487		0.0195	0.0200	-2.3	30.0
Carbon tetrachloride	Ave	0.3272	0.3395	0.1000	0.0208	0.0200	3.8	30.0
Isobutyl alcohol	Ave	0.0110	0.0116		0.523	0.500	4.7	30.0
Benzene	Ave	0.9923	1.012	0.5000	0.0204	0.0200	2.0	30.0
1,2-Dichloroethane	Ave	0.3343	0.3362	0.1000	0.0201	0.0200	0.6	30.0
n-Heptane	Ave	0.0553	0.0550		0.0199	0.0200	-0.6	30.0
Trichloroethene	Ave	0.2793	0.2839	0.1500	0.0203	0.0200	1.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/18 Calibration Date: 06/17/2022 19:01

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2443.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	0.3575	0.3755	0.1000	0.0210	0.0200	5.0	30.0
1,2-Dichloropropane	Ave	0.2324	0.2291	0.1000	0.0197	0.0200	-1.4	30.0
1,4-Dioxane	Ave	0.0024	0.0027		0.458	0.400	14.6	50.0
Dibromomethane	Ave	0.1473	0.1428		0.0194	0.0200	-3.0	30.0
Bromodichloromethane	Ave	0.3083	0.3044	0.1500	0.0197	0.0200	-1.3	30.0
2-Chloroethyl vinyl ether	Ave	0.1741	0.1644		0.0189	0.0200	-5.6	30.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3704	0.1500	0.0196	0.0200	-1.9	50.0
4-Methyl-2-pentanone	Ave	0.3120	0.3015	0.0500	0.0387	0.0400	-3.4	50.0
Toluene	Ave	1.486	1.419	0.4000	0.0191	0.0200	-4.5	30.0
trans-1,3-Dichloropropene	Ave	0.4889	0.4800	0.1000	0.0196	0.0200	-1.8	30.0
Ethyl methacrylate	Ave	0.4694	0.4580		0.0195	0.0200	-2.4	30.0
1,1,2-Trichloroethane	Ave	0.2863	0.2840	0.1000	0.0198	0.0200	-0.8	30.0
Tetrachloroethene	Ave	0.2892	0.2927	0.1500	0.0202	0.0200	1.2	30.0
1,3-Dichloropropane	Ave	0.5046	0.5007		0.0198	0.0200	-0.8	30.0
2-Hexanone	Ave	0.3226	0.3167	0.0500	0.0393	0.0400	-1.8	50.0
Dibromochloromethane	Ave	0.3155	0.3179		0.0202	0.0200	0.8	30.0
1,2-Dibromoethane	Ave	0.3099	0.2970		0.0192	0.0200	-4.2	30.0
Chlorobenzene	Ave	0.9126	0.9020	0.3000	0.0198	0.0200	-1.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2978	0.3028		0.0203	0.0200	1.7	30.0
Ethylbenzene	Ave	0.5027	0.5021		0.0200	0.0200	-0.1	30.0
m-Xylene & p-Xylene	Ave	1.183	1.179		0.0199	0.0200	-0.3	30.0
o-Xylene	Ave	0.5690	0.5659		0.0199	0.0200	-0.5	30.0
Styrene	Ave	0.9710	0.9522	0.3000	0.0196	0.0200	-1.9	30.0
Bromoform	Ave	0.2255	0.2172	0.1000	0.0193	0.0200	-3.7	30.0
Isopropylbenzene	Ave	1.401	1.403	0.1000	0.0200	0.0200	0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7873	0.7416	0.3000	0.0188	0.0200	-5.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2855	0.2735		0.0192	0.0200	-4.2	30.0
Bromobenzene	Ave	0.7492	0.7275		0.0194	0.0200	-2.9	30.0
1,2,3-Trichloropropane	Ave	0.2777	0.2708		0.0195	0.0200	-2.5	30.0
n-Propylbenzene	Ave	0.8157	0.7944		0.0195	0.0200	-2.6	30.0
2-Chlorotoluene	Ave	0.6877	0.6736		0.0196	0.0200	-2.0	30.0
1,3,5-Trimethylbenzene	Ave	2.223	2.159		0.0194	0.0200	-2.9	30.0
4-Chlorotoluene	Ave	2.113	2.054		0.0194	0.0200	-2.8	30.0
tert-Butylbenzene	Ave	1.938	1.897		0.0196	0.0200	-2.1	30.0
1,2,4-Trimethylbenzene	Ave	2.207	2.172		0.0197	0.0200	-1.6	30.0
sec-Butylbenzene	Ave	2.539	2.488		0.0196	0.0200	-2.0	30.0
1,3-Dichlorobenzene	Ave	1.279	1.239	0.6000	0.0194	0.0200	-3.1	30.0
p-Isopropyltoluene	Ave	2.175	2.151		0.0198	0.0200	-1.1	30.0
1,4-Dichlorobenzene	Ave	1.309	1.266	0.5000	0.0193	0.0200	-3.3	30.0
n-Butylbenzene	Ave	1.730	1.691		0.0195	0.0200	-2.3	30.0
1,2-Dichlorobenzene	Ave	1.135	1.090	0.4000	0.0192	0.0200	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/18 Calibration Date: 06/17/2022 19:01

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2443.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	0.1962	0.1724	0.0500	0.0176	0.0200	-12.2	50.0
1,2,4-Trichlorobenzene	Ave	0.5120	0.4797	0.2000	0.0187	0.0200	-6.3	50.0
Hexachlorobutadiene	Ave	0.2294	0.2343		0.0204	0.0200	2.2	50.0
Naphthalene	Ave	1.819	1.745		0.0192	0.0200	-4.1	50.0
1,2,3-Trichlorobenzene	Ave	0.4464	0.4195		0.0188	0.0200	-6.0	30.0
Dibromofluoromethane (Surr)	Ave	0.2320	0.2080		0.0179	0.0200	-10.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2523		0.0173	0.0200	-13.3	30.0
Toluene-d8 (Surr)	Ave	1.337	1.191		0.0178	0.0200	-10.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4446		0.0190	0.0200	-4.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/29 Calibration Date: 06/17/2022 23:21

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2454.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	0.2320	0.2117		0.0182	0.0200	-8.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2623		0.0180	0.0200	-9.9	30.0
Toluene-d8 (Surr)	Ave	1.337	1.214		0.0182	0.0200	-9.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4428		0.0190	0.0200	-5.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/29 | Calibration Date: 06/17/2022 23:21

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 20:12

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 22:33

Lab File ID: UXC2454.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	0.0279	0.0249		0.179	0.200	-10.6	30.0
Diisopropyl ether	Ave	0.2239	0.2135		0.0191	0.0200	-4.7	30.0
2-Chloro-1,3-butadiene	Ave	0.4220	0.4187		0.0198	0.0200	-0.8	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7434	0.7278		0.0196	0.0200	-2.1	30.0
Ethyl acetate	Ave	0.3229	0.3034		0.0376	0.0400	-6.0	30.0
Propionitrile	Ave	0.0447	0.0444		0.199	0.200	-0.5	30.0
Methacrylonitrile	Ave	0.1993	0.1942		0.195	0.200	-2.6	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.7433	0.7174		0.0193	0.0200	-3.5	30.0
n-Butanol	Ave	0.0116	0.0114		0.490	0.500	-2.0	30.0
Ethyl acrylate	Ave	0.3922	0.3681		0.0188	0.0200	-6.1	30.0
Methyl methacrylate	Ave	0.2769	0.2639		0.0381	0.0400	-4.7	30.0
2-Nitropropane	Ave	0.0975	0.0928		0.0381	0.0400	-4.8	30.0
n-Butyl acetate	Ave	0.4603	0.4373		0.0190	0.0200	-5.0	30.0
1-Chlorohexane	Ave	0.4791	0.4496		0.0188	0.0200	-6.2	30.0
Cyclohexanone	Ave	0.0317	0.0303		0.191	0.200	-4.4	30.0
Pentachloroethane	Ave	0.0183	0.0151		0.0329	0.0400	-17.7	30.0
1,2,3-Trimethylbenzene	Ave	2.411	2.460		0.0204	0.0200	2.0	30.0
Benzyl chloride	Ave	0.2937	0.2585		0.0176	0.0200	-12.0	30.0
1,3,5-Trichlorobenzene	Ave	0.6311	0.6248		0.0198	0.0200	-1.0	30.0
2-Methylnaphthalene	Ave	1.009	0.9674		0.0384	0.0400	-4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-534172/3 | Calibration Date: 07/11/2022 13:58

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 20:12

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 22:33

Lab File ID: UXC2945.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	0.0279	0.0249		0.179	0.200	-10.7	20.0
Diisopropyl ether	Ave	0.2239	0.1919		0.0171	0.0200	-14.3	20.0
2-Chloro-1,3-butadiene	Ave	0.4220	0.3630		0.0172	0.0200	-14.0	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7434	0.6062		0.0163	0.0200	-18.5	20.0
Ethyl acetate	Ave	0.3229	0.2822		0.0350	0.0400	-12.6	20.0
Propionitrile	Ave	0.0447	0.0458		0.205	0.200	2.5	20.0
Methacrylonitrile	Ave	0.1993	0.1810		0.182	0.200	-9.2	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7433	0.6188		0.0166	0.0200	-16.8	20.0
n-Butanol	Ave	0.0116	0.0114		0.489	0.500	-2.2	20.0
Ethyl acrylate	Ave	0.3922	0.3384		0.0173	0.0200	-13.7	20.0
Methyl methacrylate	Ave	0.2769	0.2304		0.0333	0.0400	-16.8	20.0
2-Nitropropane	Ave	0.0975	0.0872		0.0358	0.0400	-10.6	20.0
n-Butyl acetate	Ave	0.4603	0.3601		0.0156	0.0200	-21.8*	20.0
1-Chlorohexane	Ave	0.4791	0.4169		0.0174	0.0200	-13.0	20.0
Cyclohexanone	Ave	0.0317	0.0248		0.156	0.200	-21.8*	20.0
Pentachloroethane	Ave	0.0183	0.1842		0.402	0.0400	905.6*	20.0
1,2,3-Trimethylbenzene	Ave	2.411	2.264		0.0188	0.0200	-6.1	20.0
Benzyl chloride	Ave	0.2937	0.3590		0.0244	0.0200	22.2*	20.0
1,3,5-Trichlorobenzene	Ave	0.6311	0.7535		0.0239	0.0200	19.4	20.0
2-Methylnaphthalene	Ave	1.009	1.156		0.0458	0.0400	14.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534172/4 Calibration Date: 07/11/2022 14:21

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2946.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	0.2036	0.2362	0.1000	0.0232	0.0200	16.0	20.0
Chloromethane	Ave	0.2633	0.2463	0.1000	0.0187	0.0200	-6.4	20.0
Vinyl chloride	Ave	0.2696	0.2697	0.1000	0.0200	0.0200	0.0	20.0
Butadiene	Ave	0.2717	0.2798		0.0206	0.0200	3.0	20.0
Bromomethane	Ave	0.2097	0.1939	0.0500	0.0185	0.0200	-7.5	20.0
Chloroethane	Ave	0.1956	0.1851	0.0500	0.0189	0.0200	-5.4	20.0
Dichlorofluoromethane	Ave	0.4434	0.4134		0.0186	0.0200	-6.8	20.0
Trichlorofluoromethane	Ave	0.3739	0.3927	0.1000	0.0210	0.0200	5.0	20.0
Ethyl ether	Ave	0.1994	0.2082		0.0209	0.0200	4.4	20.0
Acrolein	Ave	0.0248	0.0112		0.0451	0.100	-54.9*	20.0
1,1-Dichloroethene	Ave	0.2005	0.2254	0.1000	0.0225	0.0200	12.4	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1374	0.1742	0.0500	0.0254	0.0200	26.8*	20.0
Acetone	Lin1		0.0887	0.0100	0.0473	0.0400	18.2	50.0
Iodomethane	Ave	0.3230	0.3764		0.0233	0.0200	16.5	20.0
Carbon disulfide	Ave	0.5853	0.6958	0.1000	0.0238	0.0200	18.9	20.0
Methyl acetate	Ave	0.2451	0.2266	0.1000	0.0370	0.0400	-7.6	50.0
3-Chloro-1-propene	Ave	0.1612	0.1732		0.0215	0.0200	7.4	20.0
Methylene Chloride	Lin1		0.2448	0.1000	0.0209	0.0200	4.4	50.0
tert-Butyl alcohol	Ave	0.0275	0.0293		0.213	0.200	6.4	20.0
Acrylonitrile	Ave	0.1016	0.1177		0.232	0.200	15.9	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6756	0.1000	0.0200	0.0200	-0.2	20.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2748	0.1000	0.0208	0.0200	3.9	20.0
Hexane	Ave	0.0609	0.0693		0.0228	0.0200	13.9	20.0
Vinyl acetate	Ave	0.3729	0.5235		0.0281	0.0200	40.4*	20.0
1,1-Dichloroethane	Ave	0.4324	0.4548	0.2000	0.0210	0.0200	5.2	20.0
2-Butanone	Ave	0.0421	0.0453	0.0100	0.0430	0.0400	7.6	50.0
2,2-Dichloropropane	Ave	0.0570	0.0635		0.0223	0.0200	11.4	20.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2843	0.1000	0.0212	0.0200	6.2	20.0
Bromochloromethane	Ave	0.1296	0.1486		0.0229	0.0200	14.7	20.0
Tetrahydrofuran	Ave	0.1026	0.1018		0.0397	0.0400	-0.7	20.0
Chloroform	Ave	0.4205	0.4475	0.2000	0.0213	0.0200	6.4	20.0
1,1,1-Trichloroethane	Ave	0.3616	0.3930	0.1000	0.0217	0.0200	8.7	20.0
Cyclohexane	Ave	0.3672	0.3943	0.1000	0.0215	0.0200	7.4	20.0
1,1-Dichloropropene	Ave	0.3568	0.3757		0.0211	0.0200	5.3	20.0
Carbon tetrachloride	Ave	0.3272	0.3682	0.1000	0.0225	0.0200	12.5	20.0
Isobutyl alcohol	Ave	0.0110	0.0131		0.592	0.500	18.3	20.0
Benzene	Ave	0.9923	1.070	0.5000	0.0216	0.0200	7.8	20.0
1,2-Dichloroethane	Ave	0.3343	0.3443	0.1000	0.0206	0.0200	3.0	20.0
n-Heptane	Ave	0.0553	0.0593		0.0214	0.0200	7.2	20.0
Trichloroethene	Ave	0.2793	0.3070	0.1500	0.0220	0.0200	9.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534172/4 | Calibration Date: 07/11/2022 14:21

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2946.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	0.3575	0.4046	0.1000	0.0226	0.0200	13.2	20.0
1,2-Dichloropropane	Ave	0.2324	0.2441	0.1000	0.0210	0.0200	5.0	20.0
1,4-Dioxane	Ave	0.0024	0.0031		0.522	0.400	30.4	50.0
Dibromomethane	Ave	0.1473	0.1596		0.0217	0.0200	8.4	20.0
Bromodichloromethane	Ave	0.3083	0.3342	0.1500	0.0217	0.0200	8.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1741	0.1736		0.0399	0.0400	-0.3	20.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3951	0.1500	0.0209	0.0200	4.6	50.0
4-Methyl-2-pentanone	Ave	0.3120	0.3020	0.0500	0.0387	0.0400	-3.2	50.0
Toluene	Ave	1.486	1.613	0.4000	0.0217	0.0200	8.5	20.0
Ethyl methacrylate	Ave	0.4694	0.4637		0.0198	0.0200	-1.2	20.0
trans-1,3-Dichloropropene	Ave	0.4889	0.5042	0.1000	0.0206	0.0200	3.1	20.0
1,1,2-Trichloroethane	Ave	0.2863	0.3170	0.1000	0.0221	0.0200	10.7	20.0
Tetrachloroethene	Ave	0.2892	0.3602	0.1500	0.0249	0.0200	24.5*	20.0
1,3-Dichloropropane	Ave	0.5046	0.5488		0.0217	0.0200	8.7	20.0
2-Hexanone	Ave	0.3226	0.3135	0.0500	0.0389	0.0400	-2.8	50.0
Dibromochloromethane	Ave	0.3155	0.3700		0.0235	0.0200	17.3	20.0
1,2-Dibromoethane	Ave	0.3099	0.3425		0.0221	0.0200	10.5	20.0
Chlorobenzene	Ave	0.9126	1.015	0.3000	0.0223	0.0200	11.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2978	0.3513		0.0236	0.0200	18.0	20.0
Ethylbenzene	Ave	0.5027	0.5521		0.0220	0.0200	9.8	20.0
m-Xylene & p-Xylene	Ave	1.183	1.293		0.0219	0.0200	9.3	20.0
o-Xylene	Ave	0.5690	0.6327		0.0222	0.0200	11.2	20.0
Styrene	Ave	0.9710	1.064	0.3000	0.0219	0.0200	9.6	20.0
Bromoform	Ave	0.2255	0.2784	0.1000	0.0247	0.0200	23.5*	20.0
Isopropylbenzene	Ave	1.401	1.563	0.1000	0.0223	0.0200	11.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7873	0.8684	0.3000	0.0221	0.0200	10.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2855	0.2379		0.0167	0.0200	-16.7	20.0
Bromobenzene	Ave	0.7492	0.8646		0.0231	0.0200	15.4	20.0
1,2,3-Trichloropropane	Ave	0.2777	0.3123		0.0225	0.0200	12.5	20.0
n-Propylbenzene	Ave	0.8157	0.8940		0.0219	0.0200	9.6	20.0
2-Chlorotoluene	Ave	0.6877	0.7524		0.0219	0.0200	9.4	20.0
1,3,5-Trimethylbenzene	Ave	2.223	2.420		0.0218	0.0200	8.9	20.0
4-Chlorotoluene	Ave	2.113	2.214		0.0210	0.0200	4.8	20.0
tert-Butylbenzene	Ave	1.938	2.097		0.0216	0.0200	8.2	20.0
1,2,4-Trimethylbenzene	Ave	2.207	2.381		0.0216	0.0200	7.9	20.0
sec-Butylbenzene	Ave	2.539	2.732		0.0215	0.0200	7.6	20.0
1,3-Dichlorobenzene	Ave	1.279	1.457	0.6000	0.0228	0.0200	13.9	20.0
p-Isopropyltoluene	Ave	2.175	2.301		0.0212	0.0200	5.8	20.0
1,4-Dichlorobenzene	Ave	1.309	1.476	0.5000	0.0225	0.0200	12.7	20.0
n-Butylbenzene	Ave	1.730	1.805		0.0209	0.0200	4.4	20.0
1,2-Dichlorobenzene	Ave	1.135	1.277	0.4000	0.0225	0.0200	12.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534172/4 Calibration Date: 07/11/2022 14:21

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2946.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	0.1962	0.2106	0.0500	0.0215	0.0200	7.3	50.0
1,2,4-Trichlorobenzene	Ave	0.5120	0.5549	0.2000	0.0217	0.0200	8.4	50.0
Hexachlorobutadiene	Ave	0.2294	0.2660		0.0232	0.0200	16.0	50.0
Naphthalene	Ave	1.819	1.790		0.0197	0.0200	-1.6	50.0
1,2,3-Trichlorobenzene	Ave	0.4464	0.4986		0.0223	0.0200	11.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2320	0.2422		0.0209	0.0200	4.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2833		0.0195	0.0200	-2.7	20.0
Toluene-d8 (Surr)	Ave	1.337	1.342		0.0201	0.0200	0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4533		0.0194	0.0200	-2.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-534342/3 | Calibration Date: 07/12/2022 11:45

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 20:12

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 22:33

Lab File ID: UXC2960.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	0.0279	0.0301		0.215	0.200	7.7	20.0
Diisopropyl ether	Ave	0.2239	0.1878		0.0168	0.0200	-16.1	20.0
2-Chloro-1,3-butadiene	Ave	0.4220	0.3680		0.0174	0.0200	-12.8	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7434	0.6008		0.0162	0.0200	-19.2	20.0
Ethyl acetate	Ave	0.3229	0.2954		0.0366	0.0400	-8.5	20.0
Propionitrile	Ave	0.0447	0.0488		0.219	0.200	9.3	20.0
Methacrylonitrile	Ave	0.1993	0.1860		0.187	0.200	-6.7	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7433	0.6082		0.0164	0.0200	-18.2	20.0
n-Butanol	Ave	0.0116	0.0120		0.516	0.500	3.3	20.0
Ethyl acrylate	Ave	0.3922	0.3614		0.0184	0.0200	-7.9	20.0
Methyl methacrylate	Ave	0.2769	0.2363		0.0341	0.0400	-14.7	20.0
2-Nitropropane	Ave	0.0975	0.0894		0.0367	0.0400	-8.3	20.0
n-Butyl acetate	Ave	0.4603	0.3881		0.0169	0.0200	-15.7	20.0
1-Chlorohexane	Ave	0.4791	0.4237		0.0177	0.0200	-11.6	20.0
Cyclohexanone	Ave	0.0317	0.0278		0.175	0.200	-12.4	20.0
Pentachloroethane	Ave	0.0183	0.1802		0.394	0.0400	883.9*	20.0
1,2,3-Trimethylbenzene	Ave	2.411	2.304		0.0191	0.0200	-4.5	20.0
Benzyl chloride	Ave	0.2937	0.3545		0.0241	0.0200	20.7*	20.0
1,3,5-Trichlorobenzene	Ave	0.6311	0.7654		0.0243	0.0200	21.3*	20.0
2-Methylnaphthalene	Ave	1.009	1.063		0.0421	0.0400	5.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534342/4 Calibration Date: 07/12/2022 12:08

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2961.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	0.2036	0.2271	0.1000	0.0223	0.0200	11.6	20.0
Chloromethane	Ave	0.2633	0.2421	0.1000	0.0184	0.0200	-8.1	20.0
Vinyl chloride	Ave	0.2696	0.2625	0.1000	0.0195	0.0200	-2.6	20.0
Butadiene	Ave	0.2717	0.2665		0.0196	0.0200	-1.9	20.0
Bromomethane	Ave	0.2097	0.1859	0.0500	0.0177	0.0200	-11.3	20.0
Chloroethane	Ave	0.1956	0.1819	0.0500	0.0186	0.0200	-7.0	20.0
Dichlorofluoromethane	Ave	0.4434	0.4115		0.0186	0.0200	-7.2	20.0
Trichlorofluoromethane	Ave	0.3739	0.3876	0.1000	0.0207	0.0200	3.7	20.0
Ethyl ether	Ave	0.1994	0.2056		0.0206	0.0200	3.1	20.0
Acrolein	Ave	0.0248	0.0129		0.0522	0.100	-47.8*	20.0
1,1-Dichloroethene	Ave	0.2005	0.2232	0.1000	0.0223	0.0200	11.3	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1374	0.1668	0.0500	0.0243	0.0200	21.5*	20.0
Acetone	Lin1		0.0844	0.0100	0.0449	0.0400	12.2	50.0
Iodomethane	Ave	0.3230	0.3699		0.0229	0.0200	14.5	20.0
Carbon disulfide	Ave	0.5853	0.6933	0.1000	0.0237	0.0200	18.4	20.0
Methyl acetate	Ave	0.2451	0.2216	0.1000	0.0362	0.0400	-9.6	50.0
3-Chloro-1-propene	Ave	0.1612	0.1602		0.0199	0.0200	-0.6	20.0
Methylene Chloride	Lin1		0.2428	0.1000	0.0207	0.0200	3.6	50.0
tert-Butyl alcohol	Ave	0.0275	0.0271		0.197	0.200	-1.3	20.0
Acrylonitrile	Ave	0.1016	0.1113		0.219	0.200	9.6	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6533	0.1000	0.0193	0.0200	-3.5	20.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2688	0.1000	0.0203	0.0200	1.6	20.0
Hexane	Ave	0.0609	0.0680		0.0224	0.0200	11.8	20.0
Vinyl acetate	Ave	0.3729	0.5124		0.0275	0.0200	37.4*	20.0
1,1-Dichloroethane	Ave	0.4324	0.4377	0.2000	0.0202	0.0200	1.2	20.0
2-Butanone	Ave	0.0421	0.0437	0.0100	0.0414	0.0400	3.6	50.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2770	0.1000	0.0207	0.0200	3.5	20.0
2,2-Dichloropropane	Ave	0.0570	0.0635		0.0222	0.0200	11.2	20.0
Bromochloromethane	Ave	0.1296	0.1436		0.0222	0.0200	10.9	20.0
Tetrahydrofuran	Ave	0.1026	0.0993		0.0387	0.0400	-3.2	20.0
Chloroform	Ave	0.4205	0.4440	0.2000	0.0211	0.0200	5.6	20.0
1,1,1-Trichloroethane	Ave	0.3616	0.3810	0.1000	0.0211	0.0200	5.3	20.0
Cyclohexane	Ave	0.3672	0.3834	0.1000	0.0209	0.0200	4.4	20.0
1,1-Dichloropropene	Ave	0.3568	0.3714		0.0208	0.0200	4.1	20.0
Carbon tetrachloride	Ave	0.3272	0.3607	0.1000	0.0220	0.0200	10.2	20.0
Isobutyl alcohol	Ave	0.0110	0.0130		0.587	0.500	17.4	20.0
Benzene	Ave	0.9923	1.045	0.5000	0.0211	0.0200	5.4	20.0
1,2-Dichloroethane	Ave	0.3343	0.3377	0.1000	0.0202	0.0200	1.0	20.0
n-Heptane	Ave	0.0553	0.0572		0.0207	0.0200	3.4	20.0
Trichloroethene	Ave	0.2793	0.2975	0.1500	0.0213	0.0200	6.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534342/4 Calibration Date: 07/12/2022 12:08

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2961.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	0.3575	0.3924	0.1000	0.0220	0.0200	9.8	20.0
1,2-Dichloropropane	Ave	0.2324	0.2428	0.1000	0.0209	0.0200	4.5	20.0
1,4-Dioxane	Ave	0.0024	0.0028		0.473	0.400	18.2	50.0
Dibromomethane	Ave	0.1473	0.1554		0.0211	0.0200	5.5	20.0
Bromodichloromethane	Ave	0.3083	0.3271	0.1500	0.0212	0.0200	6.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1741	0.1656		0.0380	0.0400	-4.9	20.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3897	0.1500	0.0206	0.0200	3.2	50.0
4-Methyl-2-pentanone	Ave	0.3120	0.3003	0.0500	0.0385	0.0400	-3.7	50.0
Toluene	Ave	1.486	1.562	0.4000	0.0210	0.0200	5.1	20.0
Ethyl methacrylate	Ave	0.4694	0.4458		0.0190	0.0200	-5.0	20.0
trans-1,3-Dichloropropene	Ave	0.4889	0.4953	0.1000	0.0203	0.0200	1.3	20.0
1,1,2-Trichloroethane	Ave	0.2863	0.3108	0.1000	0.0217	0.0200	8.6	20.0
Tetrachloroethene	Ave	0.2892	0.3450	0.1500	0.0239	0.0200	19.3	20.0
1,3-Dichloropropane	Ave	0.5046	0.5305		0.0210	0.0200	5.1	20.0
2-Hexanone	Ave	0.3226	0.3038	0.0500	0.0377	0.0400	-5.8	50.0
Dibromochloromethane	Ave	0.3155	0.3582		0.0227	0.0200	13.5	20.0
1,2-Dibromoethane	Ave	0.3099	0.3289		0.0212	0.0200	6.1	20.0
Chlorobenzene	Ave	0.9126	0.9735	0.3000	0.0213	0.0200	6.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2978	0.3421		0.0230	0.0200	14.9	20.0
Ethylbenzene	Ave	0.5027	0.5333		0.0212	0.0200	6.1	20.0
m-Xylene & p-Xylene	Ave	1.183	1.253		0.0212	0.0200	5.9	20.0
o-Xylene	Ave	0.5690	0.5915		0.0208	0.0200	3.9	20.0
Styrene	Ave	0.9710	1.024	0.3000	0.0211	0.0200	5.5	20.0
Bromoform	Ave	0.2255	0.2592	0.1000	0.0230	0.0200	15.0	20.0
Isopropylbenzene	Ave	1.401	1.518	0.1000	0.0217	0.0200	8.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7873	0.8282	0.3000	0.0210	0.0200	5.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2855	0.2434		0.0171	0.0200	-14.7	20.0
Bromobenzene	Ave	0.7492	0.8081		0.0216	0.0200	7.9	20.0
1,2,3-Trichloropropane	Ave	0.2777	0.2938		0.0212	0.0200	5.8	20.0
n-Propylbenzene	Ave	0.8157	0.8353		0.0205	0.0200	2.4	20.0
2-Chlorotoluene	Ave	0.6877	0.7182		0.0209	0.0200	4.4	20.0
1,3,5-Trimethylbenzene	Ave	2.223	2.254		0.0203	0.0200	1.4	20.0
4-Chlorotoluene	Ave	2.113	2.121		0.0201	0.0200	0.3	20.0
tert-Butylbenzene	Ave	1.938	1.986		0.0205	0.0200	2.5	20.0
1,2,4-Trimethylbenzene	Ave	2.207	2.237		0.0203	0.0200	1.3	20.0
sec-Butylbenzene	Ave	2.539	2.573		0.0203	0.0200	1.4	20.0
p-Isopropyltoluene	Ave	2.175	2.212		0.0203	0.0200	1.7	20.0
1,3-Dichlorobenzene	Ave	1.279	1.377	0.6000	0.0215	0.0200	7.6	20.0
1,4-Dichlorobenzene	Ave	1.309	1.382	0.5000	0.0211	0.0200	5.6	20.0
n-Butylbenzene	Ave	1.730	1.703		0.0197	0.0200	-1.6	20.0
1,2-Dichlorobenzene	Ave	1.135	1.217	0.4000	0.0214	0.0200	7.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534342/4 Calibration Date: 07/12/2022 12:08

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2961.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	0.1962	0.1931	0.0500	0.0197	0.0200	-1.6	50.0
1,2,4-Trichlorobenzene	Ave	0.5120	0.5067	0.2000	0.0198	0.0200	-1.0	50.0
Hexachlorobutadiene	Ave	0.2294	0.2450		0.0214	0.0200	6.8	50.0
Naphthalene	Ave	1.819	1.673		0.0184	0.0200	-8.0	50.0
1,2,3-Trichlorobenzene	Ave	0.4464	0.4715		0.0211	0.0200	5.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2320	0.2407		0.0207	0.0200	3.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2880		0.0198	0.0200	-1.1	20.0
Toluene-d8 (Surr)	Ave	1.337	1.337		0.0200	0.0200	0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4507		0.0193	0.0200	-3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-534562/3 Calibration Date: 07/13/2022 13:06

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 20:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 22:33

Lab File ID: UXC2986.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	0.0279	0.0391		0.280	0.200	40.1*	20.0
Diisopropyl ether	Ave	0.2239	0.1927		0.0172	0.0200	-13.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4220	0.3538		0.0168	0.0200	-16.2	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7434	0.6132		0.0165	0.0200	-17.5	20.0
Ethyl acetate	Ave	0.3229	0.2798		0.0347	0.0400	-13.3	20.0
Propionitrile	Ave	0.0447	0.0527		0.236	0.200	17.9	20.0
Methacrylonitrile	Ave	0.1993	0.1838		0.184	0.200	-7.8	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7433	0.6221		0.0167	0.0200	-16.3	20.0
n-Butanol	Ave	0.0116	0.0126		0.542	0.500	8.5	20.0
Ethyl acrylate	Ave	0.3922	0.3333		0.0170	0.0200	-15.0	20.0
Methyl methacrylate	Ave	0.2769	0.2284		0.0330	0.0400	-17.5	20.0
2-Nitropropane	Ave	0.0975	0.0903		0.0370	0.0400	-7.4	20.0
n-Butyl acetate	Ave	0.4603	0.3609		0.0157	0.0200	-21.6*	20.0
1-Chlorohexane	Ave	0.4791	0.3921		0.0164	0.0200	-18.2	20.0
Cyclohexanone	Ave	0.0317	0.0327		0.207	0.200	3.3	20.0
Pentachloroethane	Ave	0.0183	0.1388		0.303	0.0400	657.6*	20.0
1,2,3-Trimethylbenzene	Ave	2.411	2.340		0.0194	0.0200	-3.0	20.0
Benzyl chloride	Ave	0.2937	0.3546		0.0241	0.0200	20.7*	20.0
1,3,5-Trichlorobenzene	Ave	0.6311	0.7940		0.0252	0.0200	25.8*	20.0
2-Methylnaphthalene	Ave	1.009	1.210		0.0480	0.0400	19.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534562/7 | Calibration Date: 07/13/2022 14:39

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2990.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	0.2036	0.2138	0.1000	0.0210	0.0200	5.1	20.0
Chloromethane	Ave	0.2633	0.2353	0.1000	0.0179	0.0200	-10.6	20.0
Vinyl chloride	Ave	0.2696	0.2594	0.1000	0.0192	0.0200	-3.8	20.0
Butadiene	Ave	0.2717	0.2545		0.0187	0.0200	-6.3	20.0
Bromomethane	Ave	0.2097	0.1815	0.0500	0.0173	0.0200	-13.4	20.0
Chloroethane	Ave	0.1956	0.1787	0.0500	0.0183	0.0200	-8.7	20.0
Dichlorofluoromethane	Ave	0.4434	0.4031		0.0182	0.0200	-9.1	20.0
Trichlorofluoromethane	Ave	0.3739	0.3933	0.1000	0.0210	0.0200	5.2	20.0
Ethyl ether	Ave	0.1994	0.2007		0.0201	0.0200	0.6	20.0
Acrolein	Ave	0.0248	0.0164		0.0661	0.100	-33.9*	20.0
1,1-Dichloroethene	Ave	0.2005	0.2208	0.1000	0.0220	0.0200	10.1	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1374	0.1716	0.0500	0.0250	0.0200	24.9*	20.0
Acetone	Lin1		0.1010	0.0100	0.0542	0.0400	35.5	50.0
Iodomethane	Ave	0.3230	0.3632		0.0225	0.0200	12.4	20.0
Carbon disulfide	Ave	0.5853	0.6701	0.1000	0.0229	0.0200	14.5	20.0
Methyl acetate	Ave	0.2451	0.2327	0.1000	0.0380	0.0400	-5.0	50.0
3-Chloro-1-propene	Ave	0.1612	0.1741		0.0216	0.0200	8.0	20.0
Methylene Chloride	Lin1		0.2470	0.1000	0.0211	0.0200	5.4	50.0
tert-Butyl alcohol	Ave	0.0275	0.0395		0.287	0.200	43.5*	20.0
Acrylonitrile	Ave	0.1016	0.1212		0.239	0.200	19.4	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6627	0.1000	0.0196	0.0200	-2.1	20.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2700	0.1000	0.0204	0.0200	2.0	20.0
Hexane	Ave	0.0609	0.0692		0.0228	0.0200	13.8	20.0
Vinyl acetate	Ave	0.3729	0.5183		0.0278	0.0200	39.0*	20.0
1,1-Dichloroethane	Ave	0.4324	0.4380	0.2000	0.0203	0.0200	1.3	20.0
2-Butanone	Ave	0.0421	0.0472	0.0100	0.0448	0.0400	12.0	50.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2805	0.1000	0.0210	0.0200	4.8	20.0
2,2-Dichloropropane	Ave	0.0570	0.0588		0.0206	0.0200	3.0	20.0
Bromochloromethane	Ave	0.1296	0.1418		0.0219	0.0200	9.4	20.0
Tetrahydrofuran	Ave	0.1026	0.1069		0.0417	0.0400	4.2	20.0
Chloroform	Ave	0.4205	0.4414	0.2000	0.0210	0.0200	5.0	20.0
1,1,1-Trichloroethane	Ave	0.3616	0.3951	0.1000	0.0219	0.0200	9.3	20.0
Cyclohexane	Ave	0.3672	0.3745	0.1000	0.0204	0.0200	2.0	20.0
1,1-Dichloropropene	Ave	0.3568	0.3782		0.0212	0.0200	6.0	20.0
Carbon tetrachloride	Ave	0.3272	0.3641	0.1000	0.0223	0.0200	11.3	20.0
Isobutyl alcohol	Ave	0.0110	0.0149		0.674	0.500	34.8*	20.0
Benzene	Ave	0.9923	1.059	0.5000	0.0213	0.0200	6.7	20.0
1,2-Dichloroethane	Ave	0.3343	0.3452	0.1000	0.0206	0.0200	3.2	20.0
n-Heptane	Ave	0.0553	0.0634		0.0229	0.0200	14.6	20.0
Trichloroethene	Ave	0.2793	0.3104	0.1500	0.0222	0.0200	11.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534562/7 | Calibration Date: 07/13/2022 14:39

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2990.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	0.3575	0.3932	0.1000	0.0220	0.0200	10.0	20.0
1,2-Dichloropropane	Ave	0.2324	0.2384	0.1000	0.0205	0.0200	2.6	20.0
1,4-Dioxane	Ave	0.0024	0.0039		0.670	0.400	67.6*	50.0
Dibromomethane	Ave	0.1473	0.1577		0.0214	0.0200	7.0	20.0
Bromodichloromethane	Ave	0.3083	0.3271	0.1500	0.0212	0.0200	6.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1741	0.1721		0.0395	0.0400	-1.1	20.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3912	0.1500	0.0207	0.0200	3.6	50.0
4-Methyl-2-pentanone	Ave	0.3120	0.3141	0.0500	0.0403	0.0400	0.7	50.0
Toluene	Ave	1.486	1.581	0.4000	0.0213	0.0200	6.4	20.0
Ethyl methacrylate	Ave	0.4694	0.4558		0.0194	0.0200	-2.9	20.0
trans-1,3-Dichloropropene	Ave	0.4889	0.4944	0.1000	0.0202	0.0200	1.1	20.0
1,1,2-Trichloroethane	Ave	0.2863	0.3124	0.1000	0.0218	0.0200	9.1	20.0
Tetrachloroethene	Ave	0.2892	0.3620	0.1500	0.0250	0.0200	25.2*	20.0
1,3-Dichloropropane	Ave	0.5046	0.5396		0.0214	0.0200	6.9	20.0
2-Hexanone	Ave	0.3226	0.3153	0.0500	0.0391	0.0400	-2.3	50.0
Dibromochloromethane	Ave	0.3155	0.3599		0.0228	0.0200	14.1	20.0
1,2-Dibromoethane	Ave	0.3099	0.3396		0.0219	0.0200	9.6	20.0
Chlorobenzene	Ave	0.9126	1.013	0.3000	0.0222	0.0200	11.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2978	0.3512		0.0236	0.0200	18.0	20.0
Ethylbenzene	Ave	0.5027	0.5558		0.0221	0.0200	10.6	20.0
m-Xylene & p-Xylene	Ave	1.183	1.293		0.0219	0.0200	9.3	20.0
o-Xylene	Ave	0.5690	0.6302		0.0222	0.0200	10.8	20.0
Styrene	Ave	0.9710	1.072	0.3000	0.0221	0.0200	10.4	20.0
Bromoform	Ave	0.2255	0.2818	0.1000	0.0250	0.0200	25.0*	20.0
Isopropylbenzene	Ave	1.401	1.573	0.1000	0.0225	0.0200	12.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7873	0.8412	0.3000	0.0214	0.0200	6.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2855	0.2481		0.0174	0.0200	-13.1	20.0
Bromobenzene	Ave	0.7492	0.8316		0.0222	0.0200	11.0	20.0
1,2,3-Trichloropropane	Ave	0.2777	0.2994		0.0216	0.0200	7.8	20.0
n-Propylbenzene	Ave	0.8157	0.8784		0.0215	0.0200	7.7	20.0
2-Chlorotoluene	Ave	0.6877	0.7412		0.0216	0.0200	7.8	20.0
1,3,5-Trimethylbenzene	Ave	2.223	2.355		0.0212	0.0200	6.0	20.0
4-Chlorotoluene	Ave	2.113	2.119		0.0201	0.0200	0.3	20.0
tert-Butylbenzene	Ave	1.938	2.024		0.0209	0.0200	4.5	20.0
1,2,4-Trimethylbenzene	Ave	2.207	2.364		0.0214	0.0200	7.1	20.0
sec-Butylbenzene	Ave	2.539	2.709		0.0213	0.0200	6.7	20.0
1,3-Dichlorobenzene	Ave	1.279	1.455	0.6000	0.0227	0.0200	13.7	20.0
p-Isopropyltoluene	Ave	2.175	2.360		0.0217	0.0200	8.5	20.0
1,4-Dichlorobenzene	Ave	1.309	1.446	0.5000	0.0221	0.0200	10.5	20.0
n-Butylbenzene	Ave	1.730	1.856		0.0215	0.0200	7.3	20.0
1,2-Dichlorobenzene	Ave	1.135	1.326	0.4000	0.0234	0.0200	16.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534562/7 Calibration Date: 07/13/2022 14:39

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2990.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	0.1962	0.2229	0.0500	0.0227	0.0200	13.6	50.0
1,2,4-Trichlorobenzene	Ave	0.5120	0.6433	0.2000	0.0251	0.0200	25.6	50.0
Hexachlorobutadiene	Ave	0.2294	0.3159		0.0275	0.0200	37.7	50.0
Naphthalene	Ave	1.819	2.133		0.0234	0.0200	17.2	50.0
1,2,3-Trichlorobenzene	Ave	0.4464	0.6357		0.0285	0.0200	42.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2320	0.2403		0.0207	0.0200	3.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2808		0.0193	0.0200	-3.5	20.0
Toluene-d8 (Surr)	Ave	1.337	1.311		0.0196	0.0200	-1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4402		0.0189	0.0200	-5.7	20.0

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Start Date: 06/17/2022 14:42

Analysis Batch Number: 531220 End Date: 06/18/2022 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-531220/1		06/17/2022 14:42	1	BFB1270.D	DB-624 0.18(mm)
STD8260 240-531220/9 IC		06/17/2022 15:29	1	UXC2434.D	DB-624 0.18(mm)
STD8260 240-531220/10 IC		06/17/2022 15:53	1	UXC2435.D	DB-624 0.18(mm)
STD8260 240-531220/11 IC		06/17/2022 16:16	1	UXC2436.D	DB-624 0.18(mm)
STD8260 240-531220/12 IC		06/17/2022 16:40	1	UXC2437.D	DB-624 0.18(mm)
ICIS 240-531220/13		06/17/2022 17:03	1	UXC2438.D	DB-624 0.18(mm)
STD8260 240-531220/14 IC		06/17/2022 17:27	1	UXC2439.D	DB-624 0.18(mm)
STD8260 240-531220/15 IC		06/17/2022 17:50	1	UXC2440.D	DB-624 0.18(mm)
STD8260 240-531220/16 IC		06/17/2022 18:14	1	UXC2441.D	DB-624 0.18(mm)
ICV 240-531220/18		06/17/2022 19:01	1	UXC2443.D	DB-624 0.18(mm)
ZZZZZ		06/17/2022 19:25	1		DB-624 0.18(mm)
STDA9 240-531220/21 IC		06/17/2022 20:12	1	UXC2446.D	DB-624 0.18(mm)
STDA9 240-531220/22 IC		06/17/2022 20:35	1	UXC2447.D	DB-624 0.18(mm)
STDA9 240-531220/23 IC		06/17/2022 20:59	1	UXC2448.D	DB-624 0.18(mm)
STDA9 240-531220/24 IC		06/17/2022 21:22	1	UXC2449.D	DB-624 0.18(mm)
STDA9 240-531220/25 IC		06/17/2022 21:46	1	UXC2450.D	DB-624 0.18(mm)
STDA9 240-531220/26 IC		06/17/2022 22:10	1	UXC2451.D	DB-624 0.18(mm)
STDA9 240-531220/27 IC		06/17/2022 22:33	1	UXC2452.D	DB-624 0.18(mm)
ICV 240-531220/29		06/17/2022 23:21	1	UXC2454.D	DB-624 0.18(mm)
ZZZZZ		06/17/2022 23:44	1		DB-624 0.18(mm)
ZZZZZ		06/18/2022 00:08	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Start Date: 07/11/2022 13:35

Analysis Batch Number: 534172 End Date: 07/11/2022 19:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-534172/1		07/11/2022 13:35	1	BFB1290.D	DB-624 0.18(mm)
CCV 240-534172/3		07/11/2022 13:58	1	UXC2945.D	DB-624 0.18(mm)
CCVIS 240-534172/4		07/11/2022 14:21	1	UXC2946.D	DB-624 0.18(mm)
LCS 240-534172/5		07/11/2022 14:45	1	UXC2947.D	DB-624 0.18(mm)
ZZZZZ		07/11/2022 15:08	1		DB-624 0.18(mm)
ZZZZZ		07/11/2022 15:31	1		DB-624 0.18(mm)
MB 240-534172/8		07/11/2022 15:54	1	UXC2950.D	DB-624 0.18(mm)
ZZZZZ		07/11/2022 16:18	1		DB-624 0.18(mm)
ZZZZZ		07/11/2022 16:41	1		DB-624 0.18(mm)
ZZZZZ		07/11/2022 17:28	1		DB-624 0.18(mm)
240-169444-1	MSA-SW37A-070622	07/11/2022 18:14	1	UXC2956.D	DB-624 0.18(mm)
240-169444-2	MSA-SW37B-070622	07/11/2022 18:38	1	UXC2957.D	DB-624 0.18(mm)
240-169444-3	MSA-SW37C-070622	07/11/2022 19:01	1	UXC2958.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Start Date: 07/12/2022 11:22

Analysis Batch Number: 534342 End Date: 07/12/2022 21:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-534342/1		07/12/2022 11:22	1	BFB1291.D	DB-624 0.18(mm)
CCV 240-534342/3		07/12/2022 11:45	1	UXC2960.D	DB-624 0.18(mm)
CCVIS 240-534342/4		07/12/2022 12:08	1	UXC2961.D	DB-624 0.18(mm)
LCS 240-534342/5		07/12/2022 12:31	1	UXC2962.D	DB-624 0.18(mm)
ZZZZZ		07/12/2022 12:55	1		DB-624 0.18(mm)
ZZZZZ		07/12/2022 13:18	1		DB-624 0.18(mm)
MB 240-534342/8		07/12/2022 13:41	1	UXC2965.D	DB-624 0.18(mm)
240-169444-4	MSA-SW37D-070622	07/12/2022 14:04	1	UXC2966.D	DB-624 0.18(mm)
240-169444-5	MSA-SW38A-070622	07/12/2022 14:28	1	UXC2967.D	DB-624 0.18(mm)
240-169444-6	MSA-SW38B-070622	07/12/2022 14:51	1	UXC2968.D	DB-624 0.18(mm)
240-169444-7	MSA-SW38C-070622	07/12/2022 15:14	1	UXC2969.D	DB-624 0.18(mm)
240-169444-8	MSA-SW38D-070622	07/12/2022 15:38	1	UXC2970.D	DB-624 0.18(mm)
240-169444-9	MSA-SW40A-070622	07/12/2022 16:01	1	UXC2971.D	DB-624 0.18(mm)
240-169444-10	MSA-SW40B-070622	07/12/2022 16:24	1	UXC2972.D	DB-624 0.18(mm)
240-169444-11	MSA-SW40C-070622	07/12/2022 16:47	1	UXC2973.D	DB-624 0.18(mm)
240-169444-12	MSA-SW40D-070622	07/12/2022 17:11	1	UXC2974.D	DB-624 0.18(mm)
240-169444-13	MSA-SW41A-070622	07/12/2022 17:34	1	UXC2975.D	DB-624 0.18(mm)
240-169444-14	MSA-SW41B-070622	07/12/2022 17:57	1	UXC2976.D	DB-624 0.18(mm)
240-169444-15	MSA-SW41C-070622	07/12/2022 18:20	1	UXC2977.D	DB-624 0.18(mm)
240-169444-16	MSA-SW41D-070622	07/12/2022 18:43	1	UXC2978.D	DB-624 0.18(mm)
240-169444-17	MSA-SW42A-070622	07/12/2022 19:07	1	UXC2979.D	DB-624 0.18(mm)
240-169444-18	MSA-SW42B-070622	07/12/2022 19:30	1	UXC2980.D	DB-624 0.18(mm)
240-169444-19	MSA-SW42C-070622	07/12/2022 19:53	1	UXC2981.D	DB-624 0.18(mm)
240-169444-20	MSA-SW42D-070622	07/12/2022 20:16	1	UXC2982.D	DB-624 0.18(mm)
240-169444-21	MSA-SW43A-070622	07/12/2022 20:39	1	UXC2983.D	DB-624 0.18(mm)
240-169444-22	MSA-SW43B-070622	07/12/2022 21:02	1	UXC2984.D	DB-624 0.18(mm)
240-169444-23	MSA-SW43C-070622	07/12/2022 21:25	1	UXC2985.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Start Date: 07/13/2022 12:41

Analysis Batch Number: 534562 End Date: 07/13/2022 18:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-534562/33		07/13/2022 12:41	1	BFB1294.D	DB-624 0.18(mm)
CCV 240-534562/3		07/13/2022 13:06	1	UXC2986.D	DB-624 0.18(mm)
ZZZZZ		07/13/2022 14:16	1		DB-624 0.18(mm)
CCVIS 240-534562/7		07/13/2022 14:39	1	UXC2990.D	DB-624 0.18(mm)
LCS 240-534562/8		07/13/2022 15:02	1	UXC2991.D	DB-624 0.18(mm)
ZZZZZ		07/13/2022 15:26	1		DB-624 0.18(mm)
MB 240-534562/10		07/13/2022 15:49	1	UXC2993.D	DB-624 0.18(mm)
240-169444-24	MSA-SW43D-070622	07/13/2022 16:12	1	UXC2994.D	DB-624 0.18(mm)
240-169444-25	TB-070622	07/13/2022 16:35	1	UXC2995.D	DB-624 0.18(mm)
240-169444-26	MSA-SW46A-070622	07/13/2022 16:58	1	UXC2996.D	DB-624 0.18(mm)
240-169444-27	MSA-SW47A-070622	07/13/2022 17:22	1	UXC2997.D	DB-624 0.18(mm)
240-169444-28	MSA-SW48A-070622	07/13/2022 17:45	1	UXC2998.D	DB-624 0.18(mm)
240-169444-29	MSA-SW49A-070622	07/13/2022 18:08	1	UXC2999.D	DB-624 0.18(mm)
240-169444-30	MSA-SWEQB-070622	07/13/2022 18:31	1	UXC3000.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 531220 Batch Start Date: 06/17/22 14:42 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00011	vm50ss_stk 00091	vmarolistdw 00442	vmbfb 00030
BFB 240-531220/1		8260C		5 mL	5 mL				1 uL
STD8260 240-531220/9 IC		8260C		5 mL	5 mL	2 uL	0.4 uL	0.4 uL	
STD8260 240-531220/10 IC		8260C		5 mL	5 mL	2 uL	0.8 uL	0.8 uL	
STD8260 240-531220/11 IC		8260C		5 mL	5 mL	2 uL	1.6 uL	1.6 uL	
STD8260 240-531220/12 IC		8260C		5 mL	5 mL	2 uL	8 uL	8 uL	
ICIS 240-531220/13		8260C		5 mL	5 mL	2 uL	16 uL	16 uL	
STD8260 240-531220/14 IC		8260C		5 mL	5 mL	2 uL	32 uL	32 uL	
STD8260 240-531220/15 IC		8260C		5 mL	5 mL	2 uL	48 uL	48 uL	
STD8260 240-531220/16 IC		8260C		5 mL	5 mL	2 uL	64 uL	64 uL	
ICV 240-531220/18		8260C		5 mL	5 mL	2 uL	2 uL		
STDA9 240-531220/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/24 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/25 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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 531220 Batch Start Date: 06/17/22 14:42 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00011	vm50ss_stk 00091	vmarolistdw 00442	vmbfb 00030
STDA9 240-531220/26 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/27 IC		8260C		5 mL	5 mL	2 uL			
ICV 240-531220/29		8260C		5 mL	5 mL	2 uL	2 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00362	vmfasaw 00422	vmfasgw 00458	vmfaspw 00448	vmra9w 00439	vmrgas 00430
BFB 240-531220/1		8260C							
STD8260 240-531220/9 IC		8260C							0.4 uL
STD8260 240-531220/10 IC		8260C							0.8 uL
STD8260 240-531220/11 IC		8260C							1.6 uL
STD8260 240-531220/12 IC		8260C							8 uL
ICIS 240-531220/13		8260C							16 uL
STD8260 240-531220/14 IC		8260C							32 uL
STD8260 240-531220/15 IC		8260C							48 uL
STD8260 240-531220/16 IC		8260C							64 uL
ICV 240-531220/18		8260C			16 uL	16 uL	16 uL		
STDA9 240-531220/21 IC		8260C						0.4 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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 531220 Batch Start Date: 06/17/22 14:42 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00362	vmfasaw 00422	vmfasgw 00458	vmfaspw 00448	vmra9w 00439	vmrgas 00430
STDA9 240-531220/22 IC		8260C						0.8 uL	
STDA9 240-531220/23 IC		8260C						8 uL	
STDA9 240-531220/24 IC		8260C						16 uL	
STDA9 240-531220/25 IC		8260C						32 uL	
STDA9 240-531220/26 IC		8260C						48 uL	
STDA9 240-531220/27 IC		8260C						64 uL	
ICV 240-531220/29		8260C		16 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00486					
BFB 240-531220/1		8260C							
STD8260 240-531220/9 IC		8260C		0.4 uL					
STD8260 240-531220/10 IC		8260C		0.8 uL					
STD8260 240-531220/11 IC		8260C		1.6 uL					
STD8260 240-531220/12 IC		8260C		8 uL					
ICIS 240-531220/13		8260C		16 uL					
STD8260 240-531220/14 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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 531220 Batch Start Date: 06/17/22 14:42 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00486					
STD8260 240-531220/15 IC		8260C		48 uL					
STD8260 240-531220/16 IC		8260C		64 uL					
ICV 240-531220/18		8260C							
STDA9 240-531220/21 IC		8260C							
STDA9 240-531220/22 IC		8260C							
STDA9 240-531220/23 IC		8260C							
STDA9 240-531220/24 IC		8260C							
STDA9 240-531220/25 IC		8260C							
STDA9 240-531220/26 IC		8260C							
STDA9 240-531220/27 IC		8260C							
ICV 240-531220/29		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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534172 Batch Start Date: 07/11/22 13:35 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_A 00011	vm50ss_stk 00092	vmarolistdw 00445
BFB 240-534172/1		8260C		5 mL	5 mL				
CCV 240-534172/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-534172/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-534172/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-534172/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-169444-C-1	MSA-SW37A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-2	MSA-SW37B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-3	MSA-SW37C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00461	vmfaspw 00451	vmra9w 00442	vmrgas 00433
BFB 240-534172/1		8260C		1 uL					
CCV 240-534172/3		8260C						16 uL	
CCVIS 240-534172/4		8260C							16 uL
LCS 240-534172/5		8260C			16 uL	16 uL	16 uL		
MB 240-534172/8		8260C							
240-169444-C-1	MSA-SW37A-070622	8260C	T						
240-169444-B-2	MSA-SW37B-070622	8260C	T						
240-169444-B-3	MSA-SW37C-070622	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489
BFB 240-534172/1		8260C		
CCV 240-534172/3		8260C		
CCVIS 240-534172/4		8260C		16 uL
LCS 240-534172/5		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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534172 Batch Start Date: 07/11/22 13:35 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489					
MB 240-534172/8		8260C							
240-169444-C-1	MSA-SW37A-070622	8260C	T						
240-169444-B-2	MSA-SW37B-070622	8260C	T						
240-169444-B-3	MSA-SW37C-070622	8260C	T						

Batch Notes	
pH Indicator ID	HC178690

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534342 Batch Start Date: 07/12/22 11:22 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_A 00011	vm50ss_stk 00092	vmarolistdw 00445
BFB 240-534342/1		8260C		5 mL	5 mL				
CCV 240-534342/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-534342/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-534342/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-534342/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-169444-B-4	MSA-SW37D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-5	MSA-SW38A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-6	MSA-SW38B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-7	MSA-SW38C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-8	MSA-SW38D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-9	MSA-SW40A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-10	MSA-SW40B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-11	MSA-SW40C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-12	MSA-SW40D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-13	MSA-SW41A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-14	MSA-SW41B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-15	MSA-SW41C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-16	MSA-SW41D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-17	MSA-SW42A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-18	MSA-SW42B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-19	MSA-SW42C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-20	MSA-SW42D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-21	MSA-SW43A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-22	MSA-SW43B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-23	MSA-SW43C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00461	vmfaspw 00451	vmra9w 00442	vmrgas 00433
BFB 240-534342/1		8260C		1 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534342 Batch Start Date: 07/12/22 11:22 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00461	vmfaspw 00451	vmra9w 00442	vmrgas 00433
CCV 240-534342/3		8260C						16 uL	
CCVIS 240-534342/4		8260C							16 uL
LCS 240-534342/5		8260C			16 uL	16 uL	16 uL		
MB 240-534342/8		8260C							
240-169444-B-4	MSA-SW37D-070622	8260C	T						
240-169444-B-5	MSA-SW38A-070622	8260C	T						
240-169444-B-6	MSA-SW38B-070622	8260C	T						
240-169444-B-7	MSA-SW38C-070622	8260C	T						
240-169444-B-8	MSA-SW38D-070622	8260C	T						
240-169444-C-9	MSA-SW40A-070622	8260C	T						
240-169444-B-10	MSA-SW40B-070622	8260C	T						
240-169444-B-11	MSA-SW40C-070622	8260C	T						
240-169444-B-12	MSA-SW40D-070622	8260C	T						
240-169444-C-13	MSA-SW41A-070622	8260C	T						
240-169444-C-14	MSA-SW41B-070622	8260C	T						
240-169444-C-15	MSA-SW41C-070622	8260C	T						
240-169444-B-16	MSA-SW41D-070622	8260C	T						
240-169444-C-17	MSA-SW42A-070622	8260C	T						
240-169444-C-18	MSA-SW42B-070622	8260C	T						
240-169444-C-19	MSA-SW42C-070622	8260C	T						
240-169444-C-20	MSA-SW42D-070622	8260C	T						
240-169444-C-21	MSA-SW43A-070622	8260C	T						
240-169444-C-22	MSA-SW43B-070622	8260C	T						
240-169444-B-23	MSA-SW43C-070622	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489					
BFB 240-534342/1		8260C							
CCV 240-534342/3		8260C							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534342 Batch Start Date: 07/12/22 11:22 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489					
CCVIS 240-534342/4		8260C		16 uL					
LCS 240-534342/5		8260C							
MB 240-534342/8		8260C							
240-169444-B-4	MSA-SW37D-070622	8260C	T						
240-169444-B-5	MSA-SW38A-070622	8260C	T						
240-169444-B-6	MSA-SW38B-070622	8260C	T						
240-169444-B-7	MSA-SW38C-070622	8260C	T						
240-169444-B-8	MSA-SW38D-070622	8260C	T						
240-169444-C-9	MSA-SW40A-070622	8260C	T						
240-169444-B-10	MSA-SW40B-070622	8260C	T						
240-169444-B-11	MSA-SW40C-070622	8260C	T						
240-169444-B-12	MSA-SW40D-070622	8260C	T						
240-169444-C-13	MSA-SW41A-070622	8260C	T						
240-169444-C-14	MSA-SW41B-070622	8260C	T						
240-169444-C-15	MSA-SW41C-070622	8260C	T						
240-169444-B-16	MSA-SW41D-070622	8260C	T						
240-169444-C-17	MSA-SW42A-070622	8260C	T						
240-169444-C-18	MSA-SW42B-070622	8260C	T						
240-169444-C-19	MSA-SW42C-070622	8260C	T						
240-169444-C-20	MSA-SW42D-070622	8260C	T						
240-169444-C-21	MSA-SW43A-070622	8260C	T						
240-169444-C-22	MSA-SW43B-070622	8260C	T						
240-169444-B-23	MSA-SW43C-070622	8260C	T						

Batch Notes	
pH Indicator ID	HC178690

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534562 Batch Start Date: 07/13/22 12:41 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_A 00011	vm50ss_stk 00092	vmarolistdw 00445
CCV 240-534562/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-534562/7		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-534562/8		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-534562/10		8260C		5 mL	5 mL		2 uL	2 uL	
240-169444-C-24	MSA-SW43D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-25	TB-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-26	MSA-SW46A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-27	MSA-SW47A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-28	MSA-SW48A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-29	MSA-SW49A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-30	MSA-SWEQB-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
BFB 240-534562/33		8260C		5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00463	vmfaspw 00451	vmra9w 00442	vmrgas 00433
CCV 240-534562/3		8260C						16 uL	
CCVIS 240-534562/7		8260C							16 uL
LCS 240-534562/8		8260C			16 uL	16 uL	16 uL		
MB 240-534562/10		8260C							
240-169444-C-24	MSA-SW43D-070622	8260C	T						
240-169444-B-25	TB-070622	8260C	T						
240-169444-C-26	MSA-SW46A-070622	8260C	T						
240-169444-B-27	MSA-SW47A-070622	8260C	T						
240-169444-B-28	MSA-SW48A-070622	8260C	T						
240-169444-B-29	MSA-SW49A-070622	8260C	T						
240-169444-B-30	MSA-SWEQB-070622	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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534562 Batch Start Date: 07/13/22 12:41 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00463	vmfaspw 00451	vmra9w 00442	vmrgas 00433
BFB 240-534562/33		8260C		1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489					
CCV 240-534562/3		8260C							
CCVIS 240-534562/7		8260C		16 uL					
LCS 240-534562/8		8260C							
MB 240-534562/10		8260C							
240-169444-C-24	MSA-SW43D-070622	8260C	T						
240-169444-B-25	TB-070622	8260C	T						
240-169444-C-26	MSA-SW46A-070622	8260C	T						
240-169444-B-27	MSA-SW47A-070622	8260C	T						
240-169444-B-28	MSA-SW48A-070622	8260C	T						
240-169444-B-29	MSA-SW49A-070622	8260C	T						
240-169444-B-30	MSA-SWEQB-070622	8260C	T						
BFB 240-534562/33		8260C							

Batch Notes	
pH Indicator ID	HC178690

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.

VOC CALCULATION	SAMPLE LCS		
TARGET ANALYTE	Benzene		
ANALYTE RESPONSE	939479		
INTERNAL STANDARD	Fluorobenzene		
I.S. RESPONSE	918595		
I.S. CONCENTRATION	20	µg/l	
ANALYTE CAL. RF	0.9923		
DILUTION FACTOR (DF)	1		
INITIAL SAMPLE VOLUME - V1	5	ml	
FINAL SAMPLE VOLUME - V2	5	ml	

$$\frac{\text{(ANALYTE RESPONSE) x (I.S. CONCENTRATION) X DF x V2}}{\text{(I.S. RESPONSE) x (CAL. R.F.) x V1}} = \textbf{20.61}\ \textbf{µg/l}$$

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534172/5

Matrix: Water | Lab File ID: UXC2947.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 14:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	42.1		10	5.4
71-43-2	Benzene	20.6		1.0	0.42
108-86-1	Bromobenzene	22.1		1.0	0.50
74-97-5	Bromochloromethane	20.9		1.0	0.54
75-27-4	Bromodichloromethane	20.7		1.0	0.17
75-25-2	Bromoform	23.4		1.0	0.76
74-83-9	Bromomethane	17.2		1.0	0.42
78-93-3	2-Butanone	41.2		10	1.2
75-15-0	Carbon disulfide	21.6		1.0	0.59
56-23-5	Carbon tetrachloride	20.9		1.0	0.26
108-90-7	Chlorobenzene	21.3		1.0	0.38
75-00-3	Chloroethane	17.7		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	19.9		10	1.5
67-66-3	Chloroform	20.2		1.0	0.47
74-87-3	Chloromethane	17.4		1.0	0.63
95-49-8	2-Chlorotoluene	20.7		1.0	0.57
106-43-4	4-Chlorotoluene	20.1		1.0	0.43
156-59-2	cis-1,2-Dichloroethene	19.8		1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	19.7		1.0	0.61
124-48-1	Dibromochloromethane	22.6		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		2.0	0.91
106-93-4	1,2-Dibromoethane	20.7		1.0	0.41
74-95-3	Dibromomethane	20.8		1.0	0.40
95-50-1	1,2-Dichlorobenzene	21.9		1.0	0.48
541-73-1	1,3-Dichlorobenzene	21.6		1.0	0.45
106-46-7	1,4-Dichlorobenzene	21.6		1.0	0.41
75-71-8	Dichlorodifluoromethane	20.0		1.0	0.35
75-34-3	1,1-Dichloroethane	19.1		1.0	0.47
107-06-2	1,2-Dichloroethane	19.3		1.0	0.21
75-35-4	1,1-Dichloroethene	21.1		1.0	0.49
78-87-5	1,2-Dichloropropane	20.2		1.0	0.47
142-28-9	1,3-Dichloropropane	20.6		1.0	0.21
594-20-7	2,2-Dichloropropane	20.6		1.0	0.78
563-58-6	1,1-Dichloropropene	19.8		1.0	0.36

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2947.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Jul-2022 14:45:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-005
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jul-2022 13:01:30 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: MAW1 Date: 11-Jul-2022 15:14:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	98	918595	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	667529	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	93	331255	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	94	217594	20.0	20.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.683	-0.012	100	258600	20.0	19.3	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	879015	20.0	19.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	96	304193	20.0	19.5	
9 Dichlorodifluoromethane	85	2.043	2.054	-0.011	99	187424	20.0	20.0	
10 Chloromethane	50	2.268	2.280	-0.012	99	209816	20.0	17.4	
11 Vinyl chloride	62	2.387	2.398	-0.011	98	233181	20.0	18.8	
12 Butadiene	54	2.422	2.434	-0.012	98	214995	20.0	17.2	
13 Bromomethane	94	2.754	2.754	0.000	91	165242	20.0	17.2	
14 Chloroethane	64	2.849	2.861	-0.012	100	158861	20.0	17.7	
15 Dichlorofluoromethane	67	3.063	3.062	0.001	98	360886	20.0	17.7	
16 Trichlorofluoromethane	101	3.086	3.086	0.000	98	336524	20.0	19.6	
17 Ethyl ether	59	3.335	3.335	0.000	89	179561	20.0	19.6	
18 Acrolein	56	3.466	3.477	-0.011	98	56219	100.0	49.4	
19 1,1-Dichloroethene	96	3.561	3.572	-0.011	98	194628	20.0	21.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.584	3.584	0.000	87	150567	20.0	23.9	
21 Acetone	43	3.584	3.596	-0.012	100	145837	40.0	42.1	
22 Iodomethane	142	3.715	3.715	0.000	98	329444	20.0	22.2	
24 Carbon disulfide	76	3.774	3.786	-0.012	99	580977	20.0	21.6	
27 Methyl acetate	43	3.857	3.857	0.000	97	388381	40.0	34.5	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	90	155451	20.0	21.0	
28 Methylene Chloride	84	3.987	3.987	0.000	89	215223	20.0	20.0	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	98	257271	200.0	203.6	
30 Acrylonitrile	53	4.177	4.177	0.000	99	1004489	200.0	215.4	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	94	587038	20.0	18.9	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	97	239206	20.0	19.7	
34 Hexane	86	4.426	4.438	-0.012	92	57010	20.0	20.4	
36 Vinyl acetate	43	4.545	4.545	0.000	97	395903	20.0	23.1	
35 1,1-Dichloroethane	63	4.569	4.580	-0.011	96	379433	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
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	79793	40.0	41.2	
41 cis-1,2-Dichloroethene	96	5.019	5.031	-0.012	80	243572	20.0	19.8	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	88	54094	20.0	20.6	
46 Chlorobromomethane	128	5.209	5.221	-0.012	91	124468	20.0	20.9	
47 Tetrahydrofuran	42	5.221	5.221	0.000	87	185808	40.0	39.4	
48 Chloroform	83	5.280	5.280	0.000	93	389813	20.0	20.2	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	330223	20.0	19.9	
50 Cyclohexane	56	5.494	5.493	0.001	87	325765	20.0	19.3	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	94	325280	20.0	19.8	
52 Carbon tetrachloride	117	5.553	5.553	0.000	89	313535	20.0	20.9	
53 Isobutyl alcohol	41	5.553	5.553	0.000	93	282817	500.0	558.0	
55 Benzene	78	5.707	5.707	0.000	96	939479	20.0	20.6	
56 1,2-Dichloroethane	62	5.743	5.742	0.001	97	296783	20.0	19.3	
58 n-Heptane	100	5.897	5.897	0.000	88	51623	20.0	20.3	
60 Trichloroethene	130	6.217	6.217	0.000	96	269555	20.0	21.0	
62 Methylcyclohexane	83	6.407	6.406	0.001	90	344784	20.0	21.0	
63 1,2-Dichloropropane	63	6.418	6.418	0.000	94	215621	20.0	20.2	
66 1,4-Dioxane	88	6.466	6.466	0.000	97	52378	400.0	484.1	
65 Dibromomethane	93	6.502	6.501	0.001	92	140688	20.0	20.8	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	293064	20.0	20.7	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	159410	20.0	19.9	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	96	340836	20.0	19.7	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.059	0.000	95	532869	40.0	37.2	
72 Toluene	91	7.260	7.260	0.000	98	1006939	20.0	20.3	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	96	321526	20.0	19.7	
74 Ethyl methacrylate	69	7.426	7.426	0.000	87	300595	20.0	19.2	
75 1,1,2-Trichloroethane	97	7.592	7.592	0.000	89	207613	20.0	21.7	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	224371	20.0	23.2	
78 2-Hexanone	43	7.747	7.747	0.001	93	404712	40.0	37.6	
77 1,3-Dichloropropane	76	7.747	7.747	0.001	95	347329	20.0	20.6	
80 Chlorodibromomethane	129	7.936	7.936	0.000	89	237506	20.0	22.6	
82 Ethylene Dibromide	107	8.055	8.055	0.000	99	214645	20.0	20.7	
84 Chlorobenzene	112	8.470	8.470	0.000	96	647516	20.0	21.3	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	220232	20.0	22.2	
86 Ethylbenzene	106	8.541	8.541	0.000	98	344697	20.0	20.5	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	810856	20.0	20.5	
88 o-Xylene	106	9.004	9.004	0.000	95	395730	20.0	20.8	
89 Styrene	104	9.016	9.015	0.001	94	670755	20.0	20.7	
90 Bromoform	173	9.205	9.205	0.000	99	176239	20.0	23.4	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	975396	20.0	20.9	
94 1,1,2,2-Tetrachloroethane	83	9.597	9.596	0.001	95	274084	20.0	21.0	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	84	78604	20.0	16.6	
95 Bromobenzene	156	9.644	9.644	0.000	92	274480	20.0	22.1	
96 1,2,3-Trichloropropane	110	9.656	9.656	0.000	80	97216	20.0	21.1	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	288121	20.0	21.3	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	236324	20.0	20.7	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	95	750998	20.0	20.4	
102 4-Chlorotoluene	91	9.917	9.917	0.000	97	705093	20.0	20.1	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	653476	20.0	20.4	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	758587	20.0	20.7	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	851179	20.0	20.2	
108 1,3-Dichlorobenzene	146	10.498	10.498	0.000	75	457112	20.0	21.6	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534172/4 Calibration Date: 07/11/2022 14:21

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2946.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	0.2036	0.2362	0.1000	0.0232	0.0200	16.0	20.0
Chloromethane	Ave	0.2633	0.2463	0.1000	0.0187	0.0200	-6.4	20.0
Vinyl chloride	Ave	0.2696	0.2697	0.1000	0.0200	0.0200	0.0	20.0
Butadiene	Ave	0.2717	0.2798		0.0206	0.0200	3.0	20.0
Bromomethane	Ave	0.2097	0.1939	0.0500	0.0185	0.0200	-7.5	20.0
Chloroethane	Ave	0.1956	0.1851	0.0500	0.0189	0.0200	-5.4	20.0
Dichlorofluoromethane	Ave	0.4434	0.4134		0.0186	0.0200	-6.8	20.0
Trichlorofluoromethane	Ave	0.3739	0.3927	0.1000	0.0210	0.0200	5.0	20.0
Ethyl ether	Ave	0.1994	0.2082		0.0209	0.0200	4.4	20.0
Acrolein	Ave	0.0248	0.0112		0.0451	0.100	-54.9*	20.0
1,1-Dichloroethene	Ave	0.2005	0.2254	0.1000	0.0225	0.0200	12.4	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1374	0.1742	0.0500	0.0254	0.0200	26.8*	20.0
Acetone	Lin1		0.0887	0.0100	0.0473	0.0400	18.2	50.0
Iodomethane	Ave	0.3230	0.3764		0.0233	0.0200	16.5	20.0
Carbon disulfide	Ave	0.5853	0.6958	0.1000	0.0238	0.0200	18.9	20.0
Methyl acetate	Ave	0.2451	0.2266	0.1000	0.0370	0.0400	-7.6	50.0
3-Chloro-1-propene	Ave	0.1612	0.1732		0.0215	0.0200	7.4	20.0
Methylene Chloride	Lin1		0.2448	0.1000	0.0209	0.0200	4.4	50.0
tert-Butyl alcohol	Ave	0.0275	0.0293		0.213	0.200	6.4	20.0
Acrylonitrile	Ave	0.1016	0.1177		0.232	0.200	15.9	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6756	0.1000	0.0200	0.0200	-0.2	20.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2748	0.1000	0.0208	0.0200	3.9	20.0
Hexane	Ave	0.0609	0.0693		0.0228	0.0200	13.9	20.0
Vinyl acetate	Ave	0.3729	0.5235		0.0281	0.0200	40.4*	20.0
1,1-Dichloroethane	Ave	0.4324	0.4548	0.2000	0.0210	0.0200	5.2	20.0
2-Butanone	Ave	0.0421	0.0453	0.0100	0.0430	0.0400	7.6	50.0
2,2-Dichloropropane	Ave	0.0570	0.0635		0.0223	0.0200	11.4	20.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2843	0.1000	0.0212	0.0200	6.2	20.0
Bromochloromethane	Ave	0.1296	0.1486		0.0229	0.0200	14.7	20.0
Tetrahydrofuran	Ave	0.1026	0.1018		0.0397	0.0400	-0.7	20.0
Chloroform	Ave	0.4205	0.4475	0.2000	0.0213	0.0200	6.4	20.0
1,1,1-Trichloroethane	Ave	0.3616	0.3930	0.1000	0.0217	0.0200	8.7	20.0
Cyclohexane	Ave	0.3672	0.3943	0.1000	0.0215	0.0200	7.4	20.0
1,1-Dichloropropene	Ave	0.3568	0.3757		0.0211	0.0200	5.3	20.0
Carbon tetrachloride	Ave	0.3272	0.3682	0.1000	0.0225	0.0200	12.5	20.0
Isobutyl alcohol	Ave	0.0110	0.0131		0.592	0.500	18.3	20.0
Benzene	Ave	0.9923	1.070	0.5000	0.0216	0.0200	7.8	20.0
1,2-Dichloroethane	Ave	0.3343	0.3443	0.1000	0.0206	0.0200	3.0	20.0
n-Heptane	Ave	0.0553	0.0593		0.0214	0.0200	7.2	20.0
Trichloroethene	Ave	0.2793	0.3070	0.1500	0.0220	0.0200	9.9	20.0

ANALYTICAL REPORT

Job Number: 240-169444-1

SDG Number: MSA Frog Mortar Creek

Job Description: MSA SW 2022

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
7/18/2022 9:39 AM

Roxanne Cisneros, Senior Project Manager
180 S. Van Buren Avenue, Barberton, OH, 44203
(615)301-5761
roxanne.cisneros@et.eurofinsus.com
07/18/2022

Table of Contents

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
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
240-169444-1

Comments
No additional comments.

Receipt
The samples were received on 7/7/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1º C.

GC/MS VOA
Methods 8260C: The continuing calibration verification (CCV) analyzed in batch 240-534172 was outside the method criteria for some 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.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-534562 was outside the method criteria for some 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.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-534342 was outside the method criteria for some 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.

Method 8260C: The method blank for preparation batch 240-534562 contained hexachlorobutadiene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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-070622 (240-169444-1), MSA-SW37B-070622 (240-169444-2), MSA-SW37C-070622 (240-169444-3), MSA-SW37D-070622 (240-169444-4), MSA-SW38A-070622 (240-169444-5), MSA-SW38B-070622 (240-169444-6), MSA-SW38C-070622 (240-169444-7), MSA-SW38D-070622 (240-169444-8), MSA-SW40A-070622 (240-169444-9), MSA-SW40B-070622 (240-169444-10), MSA-SW40C-070622 (240-169444-11), MSA-SW40D-070622 (240-169444-12), MSA-SW41A-070622 (240-169444-13), MSA-SW41B-070622 (240-169444-14), MSA-SW41C-070622 (240-169444-15), MSA-SW41D-070622 (240-169444-16), MSA-SW42A-070622 (240-169444-17), MSA-SW42B-070622 (240-169444-18), MSA-SW42C-070622 (240-169444-19), MSA-SW42D-070622 (240-169444-20), MSA-SW43A-070622 (240-169444-21), MSA-SW43B-070622 (240-169444-22), MSA-SW43C-070622 (240-169444-23), MSA-SW43D-070622 (240-169444-24), TB-070622 (240-169444-25), MSA-SW46A-070622 (240-169444-26), MSA-SW47A-070622 (240-169444-27), MSA-SW48A-070622 (240-169444-28), MSA-SW49A-070622 (240-169444-29) and MSA-SWEQB-070622 (240-169444-30). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Methods 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-534172.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-534342.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-534562.

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

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

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA SW 2022

Job ID: 240-169444-1
SDG: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 — Lab Sample ID: 240-169444-1

No Detections.

Client Sample ID: MSA-SW37B-070622 — Lab Sample ID: 240-169444-2

No Detections.

Client Sample ID: MSA-SW37C-070622 — Lab Sample ID: 240-169444-3

No Detections.

Client Sample ID: MSA-SW37D-070622 — Lab Sample ID: 240-169444-4

No Detections.

Client Sample ID: MSA-SW38A-070622 — Lab Sample ID: 240-169444-5

No Detections.

Client Sample ID: MSA-SW38B-070622 — Lab Sample ID: 240-169444-6

No Detections.

Client Sample ID: MSA-SW38C-070622 — Lab Sample ID: 240-169444-7

No Detections.

Client Sample ID: MSA-SW38D-070622 — Lab Sample ID: 240-169444-8

No Detections.

Client Sample ID: MSA-SW40A-070622 — Lab Sample ID: 240-169444-9

No Detections.

Client Sample ID: MSA-SW40B-070622 — Lab Sample ID: 240-169444-10

No Detections.

Client Sample ID: MSA-SW40C-070622 — Lab Sample ID: 240-169444-11

No Detections.

Client Sample ID: MSA-SW40D-070622 — Lab Sample ID: 240-169444-12

No Detections.

Client Sample ID: MSA-SW41A-070622 — Lab Sample ID: 240-169444-13

No Detections.

Client Sample ID: MSA-SW41B-070622 — Lab Sample ID: 240-169444-14

No Detections.

Client Sample ID: MSA-SW41C-070622 — Lab Sample ID: 240-169444-15

No Detections.

Client Sample ID: MSA-SW41D-070622 — Lab Sample ID: 240-169444-16

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA SW 2022

Job ID: 240-169444-1
SDG: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 — Lab Sample ID: 240-169444-17

No Detections.

Client Sample ID: MSA-SW42B-070622 — Lab Sample ID: 240-169444-18

No Detections.

Client Sample ID: MSA-SW42C-070622 — Lab Sample ID: 240-169444-19

No Detections.

Client Sample ID: MSA-SW42D-070622 — Lab Sample ID: 240-169444-20

No Detections.

Client Sample ID: MSA-SW43A-070622 — Lab Sample ID: 240-169444-21

No Detections.

Client Sample ID: MSA-SW43B-070622 — Lab Sample ID: 240-169444-22

No Detections.

Client Sample ID: MSA-SW43C-070622 — Lab Sample ID: 240-169444-23

No Detections.

Client Sample ID: MSA-SW43D-070622 — Lab Sample ID: 240-169444-24

No Detections.

Client Sample ID: TB-070622 — Lab Sample ID: 240-169444-25

No Detections.

Client Sample ID: MSA-SW46A-070622 — Lab Sample ID: 240-169444-26

No Detections.

Client Sample ID: MSA-SW47A-070622 — Lab Sample ID: 240-169444-27

No Detections.

Client Sample ID: MSA-SW48A-070622 — Lab Sample ID: 240-169444-28

No Detections.

Client Sample ID: MSA-SW49A-070622 — Lab Sample ID: 240-169444-29

No Detections.

Client Sample ID: MSA-SWEQB-070622 — Lab Sample ID: 240-169444-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.8		1.0	0.47	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MSA-SW37A-070622

Date Collected: 07/06/22 09:32
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/11/22 18:14	1
Benzene	0.42	U	1.0	0.42	ug/L			07/11/22 18:14	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/11/22 18:14	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/11/22 18:14	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/11/22 18:14	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/11/22 18:14	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/11/22 18:14	1
2-Butanone	1.2	U	10	1.2	ug/L			07/11/22 18:14	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/11/22 18:14	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/11/22 18:14	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/11/22 18:14	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/11/22 18:14	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/11/22 18:14	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/11/22 18:14	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/11/22 18:14	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/11/22 18:14	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/11/22 18:14	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/11/22 18:14	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/11/22 18:14	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/11/22 18:14	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/11/22 18:14	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/11/22 18:14	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/11/22 18:14	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/11/22 18:14	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/11/22 18:14	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/11/22 18:14	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/11/22 18:14	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/11/22 18:14	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/11/22 18:14	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/11/22 18:14	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/11/22 18:14	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/11/22 18:14	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/11/22 18:14	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/11/22 18:14	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/11/22 18:14	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/11/22 18:14	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/11/22 18:14	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/11/22 18:14	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/11/22 18:14	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/11/22 18:14	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/11/22 18:14	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/11/22 18:14	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/11/22 18:14	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/11/22 18:14	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/11/22 18:14	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/11/22 18:14	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/11/22 18:14	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/11/22 18:14	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/11/22 18:14	1

Client Sample ID: MSA-SW37A-070622

Lab Sample ID: 240-169444-1

Date Collected: 07/06/22 09:32
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/11/22 18:14	1
Styrene	0.45	U	1.0	0.45	ug/L			07/11/22 18:14	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/11/22 18:14	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/11/22 18:14	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/11/22 18:14	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/11/22 18:14	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/11/22 18:14	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/11/22 18:14	1
Toluene	0.44	U	1.0	0.44	ug/L			07/11/22 18:14	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/11/22 18:14	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/11/22 18:14	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/11/22 18:14	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/11/22 18:14	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/11/22 18:14	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/11/22 18:14	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/11/22 18:14	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/11/22 18:14	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/11/22 18:14	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/11/22 18:14	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/11/22 18:14	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/11/22 18:14	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/11/22 18:14	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/11/22 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*		*07/11/22 18:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*56 - 136*		*07/11/22 18:14*	*1*
Dibromofluoromethane (Surr)	*108*		*73 - 120*		*07/11/22 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*07/11/22 18:14*	*1*
Toluene-d8 (Surr)	*97*		*78 - 122*		*07/11/22 18:14*	*1*

Client Sample ID: MSA-SW37B-070622

Lab Sample ID: 240-169444-2

Date Collected: 07/06/22 09:35
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/11/22 18:38	1
Benzene	0.42	U	1.0	0.42	ug/L			07/11/22 18:38	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/11/22 18:38	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/11/22 18:38	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/11/22 18:38	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/11/22 18:38	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/11/22 18:38	1
2-Butanone	1.2	U	10	1.2	ug/L			07/11/22 18:38	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/11/22 18:38	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/11/22 18:38	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/11/22 18:38	1

Client Sample ID: MSA-SW37B-070622

Date Collected: 07/06/22 09:35
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.83	U	1.0	0.83	ug/L			07/11/22 18:38	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/11/22 18:38	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/11/22 18:38	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/11/22 18:38	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/11/22 18:38	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/11/22 18:38	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/11/22 18:38	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/11/22 18:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/11/22 18:38	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/11/22 18:38	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/11/22 18:38	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/11/22 18:38	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/11/22 18:38	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/11/22 18:38	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/11/22 18:38	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/11/22 18:38	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/11/22 18:38	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/11/22 18:38	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/11/22 18:38	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/11/22 18:38	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/11/22 18:38	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/11/22 18:38	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/11/22 18:38	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/11/22 18:38	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/11/22 18:38	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/11/22 18:38	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/11/22 18:38	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/11/22 18:38	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/11/22 18:38	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/11/22 18:38	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/11/22 18:38	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/11/22 18:38	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/11/22 18:38	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/11/22 18:38	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/11/22 18:38	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/11/22 18:38	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/11/22 18:38	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/11/22 18:38	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/11/22 18:38	1
Styrene	0.45	U	1.0	0.45	ug/L			07/11/22 18:38	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/11/22 18:38	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/11/22 18:38	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/11/22 18:38	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/11/22 18:38	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/11/22 18:38	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/11/22 18:38	1
Toluene	0.44	U	1.0	0.44	ug/L			07/11/22 18:38	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/11/22 18:38	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/11/22 18:38	1

Client Sample ID: MSA-SW37B-070622

Lab Sample ID: 240-169444-2

Date Collected: 07/06/22 09:35
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/11/22 18:38	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/11/22 18:38	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/11/22 18:38	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/11/22 18:38	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/11/22 18:38	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/11/22 18:38	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/11/22 18:38	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/11/22 18:38	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/11/22 18:38	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/11/22 18:38	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/11/22 18:38	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/11/22 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*		*07/11/22 18:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*07/11/22 18:38*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*07/11/22 18:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*07/11/22 18:38*	*1*
Toluene-d8 (Surr)	*93*		*78 - 122*		*07/11/22 18:38*	*1*

Client Sample ID: MSA-SW37C-070622

Lab Sample ID: 240-169444-3

Date Collected: 07/06/22 09:38
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/11/22 19:01	1
Benzene	0.42	U	1.0	0.42	ug/L			07/11/22 19:01	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/11/22 19:01	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/11/22 19:01	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/11/22 19:01	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/11/22 19:01	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/11/22 19:01	1
2-Butanone	1.2	U	10	1.2	ug/L			07/11/22 19:01	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/11/22 19:01	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/11/22 19:01	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/11/22 19:01	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/11/22 19:01	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/11/22 19:01	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/11/22 19:01	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/11/22 19:01	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/11/22 19:01	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/11/22 19:01	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/11/22 19:01	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/11/22 19:01	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/11/22 19:01	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/11/22 19:01	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/11/22 19:01	1

Client Sample ID: MSA-SW37C-070622

Date Collected: 07/06/22 09:38
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/11/22 19:01	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/11/22 19:01	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/11/22 19:01	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/11/22 19:01	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/11/22 19:01	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/11/22 19:01	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/11/22 19:01	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/11/22 19:01	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/11/22 19:01	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/11/22 19:01	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/11/22 19:01	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/11/22 19:01	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/11/22 19:01	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/11/22 19:01	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/11/22 19:01	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/11/22 19:01	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/11/22 19:01	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/11/22 19:01	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/11/22 19:01	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/11/22 19:01	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/11/22 19:01	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/11/22 19:01	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/11/22 19:01	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/11/22 19:01	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/11/22 19:01	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/11/22 19:01	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/11/22 19:01	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/11/22 19:01	1
Styrene	0.45	U	1.0	0.45	ug/L			07/11/22 19:01	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/11/22 19:01	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/11/22 19:01	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/11/22 19:01	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/11/22 19:01	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/11/22 19:01	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/11/22 19:01	1
Toluene	0.44	U	1.0	0.44	ug/L			07/11/22 19:01	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/11/22 19:01	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/11/22 19:01	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/11/22 19:01	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/11/22 19:01	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/11/22 19:01	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/11/22 19:01	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/11/22 19:01	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/11/22 19:01	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/11/22 19:01	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/11/22 19:01	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/11/22 19:01	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/11/22 19:01	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/11/22 19:01	1

Client Sample ID: MSA-SW37C-070622

Lab Sample ID: 240-169444-3

Date Collected: 07/06/22 09:38
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/11/22 19:01	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*		*07/11/22 19:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*07/11/22 19:01*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*07/11/22 19:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*62 - 137*		*07/11/22 19:01*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*07/11/22 19:01*	*1*

Client Sample ID: MSA-SW37D-070622

Lab Sample ID: 240-169444-4

Date Collected: 07/06/22 09:41
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 14:04	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 14:04	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 14:04	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 14:04	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 14:04	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 14:04	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 14:04	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 14:04	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 14:04	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 14:04	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 14:04	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 14:04	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 14:04	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 14:04	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 14:04	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 14:04	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 14:04	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 14:04	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 14:04	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 14:04	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 14:04	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 14:04	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 14:04	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 14:04	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 14:04	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 14:04	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 14:04	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 14:04	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 14:04	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 14:04	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 14:04	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 14:04	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 14:04	1

Client Sample ID: MSA-SW37D-070622

Date Collected: 07/06/22 09:41
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 14:04	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 14:04	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 14:04	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 14:04	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 14:04	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 14:04	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 14:04	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 14:04	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 14:04	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 14:04	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 14:04	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 14:04	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 14:04	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 14:04	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 14:04	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 14:04	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 14:04	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 14:04	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 14:04	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 14:04	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 14:04	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 14:04	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 14:04	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 14:04	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 14:04	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 14:04	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 14:04	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 14:04	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 14:04	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 14:04	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 14:04	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 14:04	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 14:04	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 14:04	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 14:04	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 14:04	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 14:04	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 14:04	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 14:04	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*		*07/12/22 14:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*56 - 136*		*07/12/22 14:04*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 120*		*07/12/22 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*62 - 137*		*07/12/22 14:04*	*1*
Toluene-d8 (Surr)	*91*		*78 - 122*		*07/12/22 14:04*	*1*

Client Sample ID: MSA-SW38A-070622

Date Collected: 07/06/22 08:41
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 14:28	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 14:28	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 14:28	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 14:28	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 14:28	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 14:28	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 14:28	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 14:28	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 14:28	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 14:28	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 14:28	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 14:28	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 14:28	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 14:28	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 14:28	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 14:28	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 14:28	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 14:28	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 14:28	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 14:28	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 14:28	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 14:28	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 14:28	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 14:28	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 14:28	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 14:28	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 14:28	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 14:28	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 14:28	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 14:28	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 14:28	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 14:28	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 14:28	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 14:28	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 14:28	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 14:28	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 14:28	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 14:28	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 14:28	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 14:28	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 14:28	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 14:28	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 14:28	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 14:28	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 14:28	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 14:28	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 14:28	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 14:28	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 14:28	1

Client Sample ID: MSA-SW38A-070622

Lab Sample ID: 240-169444-5

Date Collected: 07/06/22 08:41
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 14:28	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 14:28	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 14:28	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 14:28	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 14:28	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 14:28	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 14:28	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 14:28	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 14:28	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 14:28	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 14:28	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 14:28	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 14:28	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 14:28	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 14:28	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 14:28	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 14:28	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 14:28	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 14:28	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 14:28	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 14:28	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 14:28	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 14:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*07/12/22 14:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*07/12/22 14:28*	*1*
Dibromofluoromethane (Surr)	*107*		*73 - 120*		*07/12/22 14:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*07/12/22 14:28*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*07/12/22 14:28*	*1*

Client Sample ID: MSA-SW38B-070622

Lab Sample ID: 240-169444-6

Date Collected: 07/06/22 08:44
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 14:51	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 14:51	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 14:51	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 14:51	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 14:51	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 14:51	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 14:51	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 14:51	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 14:51	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 14:51	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 14:51	1

Client Sample ID: MSA-SW38B-070622

Date Collected: 07/06/22 08:44
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 14:51	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 14:51	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 14:51	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 14:51	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 14:51	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 14:51	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 14:51	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 14:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 14:51	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 14:51	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 14:51	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 14:51	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 14:51	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 14:51	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 14:51	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 14:51	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 14:51	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 14:51	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 14:51	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 14:51	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 14:51	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 14:51	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 14:51	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 14:51	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 14:51	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 14:51	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 14:51	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 14:51	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 14:51	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 14:51	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 14:51	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 14:51	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 14:51	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 14:51	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 14:51	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 14:51	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 14:51	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 14:51	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 14:51	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 14:51	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 14:51	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 14:51	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 14:51	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 14:51	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 14:51	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 14:51	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 14:51	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 14:51	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 14:51	1

Client Sample ID: MSA-SW38B-070622

Lab Sample ID: 240-169444-6

Date Collected: 07/06/22 08:44
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 14:51	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 14:51	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 14:51	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 14:51	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 14:51	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 14:51	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 14:51	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 14:51	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 14:51	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 14:51	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 14:51	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 14:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*07/12/22 14:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*56 - 136*		*07/12/22 14:51*	*1*
Dibromofluoromethane (Surr)	*108*		*73 - 120*		*07/12/22 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*		*07/12/22 14:51*	*1*
Toluene-d8 (Surr)	*96*		*78 - 122*		*07/12/22 14:51*	*1*

Client Sample ID: MSA-SW38C-070622

Lab Sample ID: 240-169444-7

Date Collected: 07/06/22 08:46
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 15:14	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 15:14	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 15:14	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 15:14	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 15:14	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 15:14	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 15:14	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 15:14	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 15:14	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 15:14	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 15:14	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 15:14	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 15:14	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 15:14	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 15:14	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 15:14	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 15:14	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 15:14	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 15:14	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 15:14	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 15:14	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 15:14	1

Client Sample ID: MSA-SW38C-070622

Date Collected: 07/06/22 08:46
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 15:14	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 15:14	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 15:14	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 15:14	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 15:14	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 15:14	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 15:14	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 15:14	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 15:14	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 15:14	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 15:14	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 15:14	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 15:14	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 15:14	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 15:14	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 15:14	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 15:14	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 15:14	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 15:14	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 15:14	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 15:14	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 15:14	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 15:14	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 15:14	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 15:14	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 15:14	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 15:14	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 15:14	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 15:14	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 15:14	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 15:14	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 15:14	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 15:14	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 15:14	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 15:14	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 15:14	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 15:14	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 15:14	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 15:14	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 15:14	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 15:14	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 15:14	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 15:14	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 15:14	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 15:14	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 15:14	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 15:14	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 15:14	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 15:14	1

Client Sample ID: MSA-SW38C-070622

Lab Sample ID: 240-169444-7

Date Collected: 07/06/22 08:46
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 15:14	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*		*07/12/22 15:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*56 - 136*		*07/12/22 15:14*	*1*
Dibromofluoromethane (Surr)	*107*		*73 - 120*		*07/12/22 15:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*07/12/22 15:14*	*1*
Toluene-d8 (Surr)	*93*		*78 - 122*		*07/12/22 15:14*	*1*

Client Sample ID: MSA-SW38D-070622

Lab Sample ID: 240-169444-8

Date Collected: 07/06/22 08:50
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 15:38	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 15:38	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 15:38	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 15:38	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 15:38	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 15:38	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 15:38	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 15:38	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 15:38	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 15:38	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 15:38	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 15:38	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 15:38	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 15:38	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 15:38	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 15:38	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 15:38	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 15:38	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 15:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 15:38	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 15:38	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 15:38	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 15:38	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 15:38	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 15:38	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 15:38	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 15:38	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 15:38	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 15:38	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 15:38	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 15:38	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 15:38	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 15:38	1

Client Sample ID: MSA-SW38D-070622

Date Collected: 07/06/22 08:50
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 15:38	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 15:38	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 15:38	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 15:38	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 15:38	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 15:38	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 15:38	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 15:38	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 15:38	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 15:38	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 15:38	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 15:38	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 15:38	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 15:38	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 15:38	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 15:38	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 15:38	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 15:38	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 15:38	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 15:38	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 15:38	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 15:38	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 15:38	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 15:38	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 15:38	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 15:38	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 15:38	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 15:38	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 15:38	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 15:38	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 15:38	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 15:38	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 15:38	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 15:38	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 15:38	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 15:38	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 15:38	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 15:38	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 15:38	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*		*07/12/22 15:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*56 - 136*		*07/12/22 15:38*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*07/12/22 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*07/12/22 15:38*	*1*
Toluene-d8 (Surr)	*92*		*78 - 122*		*07/12/22 15:38*	*1*

Client Sample ID: MSA-SW40A-070622

Date Collected: 07/06/22 09:00
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 16:01	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 16:01	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 16:01	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 16:01	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 16:01	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 16:01	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 16:01	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 16:01	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 16:01	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 16:01	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 16:01	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 16:01	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 16:01	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 16:01	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 16:01	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 16:01	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 16:01	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 16:01	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 16:01	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 16:01	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 16:01	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 16:01	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 16:01	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 16:01	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 16:01	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 16:01	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 16:01	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 16:01	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 16:01	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 16:01	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 16:01	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 16:01	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 16:01	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 16:01	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 16:01	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 16:01	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 16:01	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 16:01	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 16:01	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 16:01	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 16:01	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 16:01	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 16:01	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 16:01	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 16:01	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 16:01	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 16:01	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 16:01	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 16:01	1

Client Sample ID: MSA-SW40A-070622

Lab Sample ID: 240-169444-9

Date Collected: 07/06/22 09:00
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 16:01	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 16:01	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 16:01	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 16:01	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 16:01	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 16:01	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 16:01	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 16:01	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 16:01	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 16:01	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 16:01	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 16:01	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 16:01	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 16:01	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 16:01	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 16:01	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 16:01	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 16:01	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 16:01	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 16:01	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 16:01	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 16:01	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 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*		*07/12/22 16:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*56 - 136*		*07/12/22 16:01*	*1*
Dibromofluoromethane (Surr)	*108*		*73 - 120*		*07/12/22 16:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*07/12/22 16:01*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*07/12/22 16:01*	*1*

Client Sample ID: MSA-SW40B-070622

Lab Sample ID: 240-169444-10

Date Collected: 07/06/22 09:03
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 16:24	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 16:24	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 16:24	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 16:24	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 16:24	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 16:24	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 16:24	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 16:24	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 16:24	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 16:24	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 16:24	1

Client Sample ID: MSA-SW40B-070622

Date Collected: 07/06/22 09:03
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 16:24	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 16:24	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 16:24	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 16:24	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 16:24	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 16:24	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 16:24	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 16:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 16:24	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 16:24	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 16:24	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 16:24	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 16:24	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 16:24	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 16:24	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 16:24	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 16:24	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 16:24	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 16:24	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 16:24	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 16:24	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 16:24	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 16:24	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 16:24	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 16:24	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 16:24	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 16:24	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 16:24	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 16:24	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 16:24	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 16:24	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 16:24	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 16:24	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 16:24	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 16:24	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 16:24	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 16:24	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 16:24	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 16:24	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 16:24	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 16:24	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 16:24	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 16:24	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 16:24	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 16:24	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 16:24	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 16:24	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 16:24	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 16:24	1

Client Sample ID: MSA-SW40B-070622

Lab Sample ID: 240-169444-10

Date Collected: 07/06/22 09:03
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 16:24	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 16:24	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 16:24	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 16:24	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 16:24	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 16:24	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 16:24	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 16:24	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 16:24	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 16:24	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 16:24	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 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*		*07/12/22 16:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*56 - 136*		*07/12/22 16:24*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 120*		*07/12/22 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*62 - 137*		*07/12/22 16:24*	*1*
Toluene-d8 (Surr)	*91*		*78 - 122*		*07/12/22 16:24*	*1*

Client Sample ID: MSA-SW40C-070622

Lab Sample ID: 240-169444-11

Date Collected: 07/06/22 09:05
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 16:47	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 16:47	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 16:47	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 16:47	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 16:47	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 16:47	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 16:47	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 16:47	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 16:47	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 16:47	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 16:47	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 16:47	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 16:47	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 16:47	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 16:47	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 16:47	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 16:47	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 16:47	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 16:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 16:47	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 16:47	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 16:47	1

Client Sample ID: MSA-SW40C-070622

Date Collected: 07/06/22 09:05
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 16:47	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 16:47	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 16:47	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 16:47	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 16:47	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 16:47	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 16:47	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 16:47	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 16:47	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 16:47	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 16:47	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 16:47	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 16:47	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 16:47	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 16:47	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 16:47	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 16:47	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 16:47	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 16:47	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 16:47	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 16:47	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 16:47	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 16:47	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 16:47	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 16:47	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 16:47	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 16:47	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 16:47	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 16:47	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 16:47	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 16:47	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 16:47	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 16:47	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 16:47	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 16:47	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 16:47	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 16:47	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 16:47	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 16:47	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 16:47	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 16:47	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 16:47	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 16:47	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 16:47	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 16:47	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 16:47	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 16:47	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 16:47	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 16:47	1

Client Sample ID: MSA-SW40C-070622

Lab Sample ID: 240-169444-11

Date Collected: 07/06/22 09:05

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 16:47	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*		*07/12/22 16:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*56 - 136*		*07/12/22 16:47*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*07/12/22 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*		*07/12/22 16:47*	*1*
Toluene-d8 (Surr)	*94*		*78 - 122*		*07/12/22 16:47*	*1*

Client Sample ID: MSA-SW40D-070622

Lab Sample ID: 240-169444-12

Date Collected: 07/06/22 09:08

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 17:11	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 17:11	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 17:11	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 17:11	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 17:11	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 17:11	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 17:11	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 17:11	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 17:11	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 17:11	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 17:11	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 17:11	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 17:11	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 17:11	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 17:11	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 17:11	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 17:11	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 17:11	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 17:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 17:11	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 17:11	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 17:11	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 17:11	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 17:11	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 17:11	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 17:11	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 17:11	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 17:11	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 17:11	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 17:11	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 17:11	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 17:11	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 17:11	1

Client Sample ID: MSA-SW40D-070622

Date Collected: 07/06/22 09:08
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 17:11	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 17:11	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 17:11	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 17:11	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 17:11	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 17:11	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 17:11	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 17:11	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 17:11	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 17:11	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 17:11	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 17:11	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 17:11	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 17:11	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 17:11	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 17:11	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 17:11	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 17:11	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 17:11	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 17:11	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 17:11	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 17:11	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 17:11	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 17:11	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 17:11	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 17:11	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 17:11	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 17:11	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 17:11	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 17:11	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 17:11	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 17:11	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 17:11	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 17:11	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 17:11	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 17:11	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 17:11	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 17:11	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 17:11	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*		*07/12/22 17:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*56 - 136*		*07/12/22 17:11*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 120*		*07/12/22 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*62 - 137*		*07/12/22 17:11*	*1*
Toluene-d8 (Surr)	*89*		*78 - 122*		*07/12/22 17:11*	*1*

Client Sample ID: MSA-SW41A-070622

Date Collected: 07/06/22 08:22
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 17:34	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 17:34	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 17:34	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 17:34	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 17:34	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 17:34	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 17:34	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 17:34	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 17:34	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 17:34	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 17:34	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 17:34	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 17:34	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 17:34	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 17:34	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 17:34	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 17:34	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 17:34	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 17:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 17:34	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 17:34	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 17:34	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 17:34	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 17:34	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 17:34	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 17:34	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 17:34	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 17:34	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 17:34	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 17:34	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 17:34	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 17:34	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 17:34	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 17:34	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 17:34	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 17:34	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 17:34	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 17:34	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 17:34	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 17:34	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 17:34	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 17:34	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 17:34	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 17:34	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 17:34	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 17:34	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 17:34	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 17:34	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 17:34	1

Client Sample ID: MSA-SW41A-070622

Lab Sample ID: 240-169444-13

Date Collected: 07/06/22 08:22
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 17:34	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 17:34	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 17:34	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 17:34	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 17:34	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 17:34	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 17:34	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 17:34	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 17:34	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 17:34	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 17:34	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 17:34	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 17:34	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 17:34	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 17:34	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 17:34	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 17:34	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 17:34	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 17:34	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 17:34	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 17:34	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 17:34	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 17:34	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*		*07/12/22 17:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*56 - 136*		*07/12/22 17:34*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*07/12/22 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*		*07/12/22 17:34*	*1*
Toluene-d8 (Surr)	*97*		*78 - 122*		*07/12/22 17:34*	*1*

Client Sample ID: MSA-SW41B-070622

Lab Sample ID: 240-169444-14

Date Collected: 07/06/22 08:25
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 17:57	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 17:57	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 17:57	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 17:57	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 17:57	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 17:57	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 17:57	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 17:57	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 17:57	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 17:57	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 17:57	1

Client Sample ID: MSA-SW41B-070622

Date Collected: 07/06/22 08:25
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 17:57	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 17:57	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 17:57	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 17:57	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 17:57	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 17:57	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 17:57	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 17:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 17:57	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 17:57	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 17:57	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 17:57	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 17:57	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 17:57	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 17:57	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 17:57	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 17:57	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 17:57	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 17:57	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 17:57	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 17:57	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 17:57	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 17:57	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 17:57	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 17:57	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 17:57	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 17:57	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 17:57	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 17:57	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 17:57	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 17:57	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 17:57	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 17:57	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 17:57	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 17:57	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 17:57	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 17:57	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 17:57	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 17:57	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 17:57	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 17:57	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 17:57	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 17:57	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 17:57	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 17:57	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 17:57	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 17:57	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 17:57	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 17:57	1

Client Sample ID: MSA-SW41B-070622

Lab Sample ID: 240-169444-14

Date Collected: 07/06/22 08:25
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 17:57	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 17:57	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 17:57	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 17:57	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 17:57	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 17:57	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 17:57	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 17:57	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 17:57	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 17:57	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 17:57	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 17:57	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*		*07/12/22 17:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*56 - 136*		*07/12/22 17:57*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*07/12/22 17:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*07/12/22 17:57*	*1*
Toluene-d8 (Surr)	*93*		*78 - 122*		*07/12/22 17:57*	*1*

Client Sample ID: MSA-SW41C-070622

Lab Sample ID: 240-169444-15

Date Collected: 07/06/22 08:28
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 18:20	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 18:20	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 18:20	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 18:20	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 18:20	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 18:20	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 18:20	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 18:20	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 18:20	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 18:20	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 18:20	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 18:20	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 18:20	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 18:20	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 18:20	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 18:20	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 18:20	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 18:20	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 18:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 18:20	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 18:20	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 18:20	1

Client Sample ID: MSA-SW41C-070622

Date Collected: 07/06/22 08:28
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 18:20	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 18:20	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 18:20	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 18:20	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 18:20	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 18:20	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 18:20	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 18:20	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 18:20	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 18:20	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 18:20	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 18:20	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 18:20	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 18:20	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 18:20	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 18:20	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 18:20	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 18:20	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 18:20	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 18:20	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 18:20	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 18:20	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 18:20	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 18:20	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 18:20	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 18:20	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 18:20	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 18:20	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 18:20	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 18:20	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 18:20	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 18:20	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 18:20	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 18:20	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 18:20	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 18:20	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 18:20	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 18:20	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 18:20	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 18:20	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 18:20	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 18:20	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 18:20	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 18:20	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 18:20	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 18:20	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 18:20	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 18:20	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 18:20	1

Client Sample ID: MSA-SW41C-070622

Lab Sample ID: 240-169444-15

Date Collected: 07/06/22 08:28

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 18:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*07/12/22 18:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*56 - 136*		*07/12/22 18:20*	*1*
Dibromofluoromethane (Surr)	*106*		*73 - 120*		*07/12/22 18:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*07/12/22 18:20*	*1*
Toluene-d8 (Surr)	*91*		*78 - 122*		*07/12/22 18:20*	*1*

Client Sample ID: MSA-SW41D-070622

Lab Sample ID: 240-169444-16

Date Collected: 07/06/22 08:32

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 18:43	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 18:43	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 18:43	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 18:43	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 18:43	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 18:43	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 18:43	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 18:43	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 18:43	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 18:43	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 18:43	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 18:43	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 18:43	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 18:43	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 18:43	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 18:43	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 18:43	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 18:43	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 18:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 18:43	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 18:43	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 18:43	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 18:43	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 18:43	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 18:43	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 18:43	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 18:43	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 18:43	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 18:43	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 18:43	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 18:43	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 18:43	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 18:43	1

Client Sample ID: MSA-SW41D-070622

Date Collected: 07/06/22 08:32
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 18:43	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 18:43	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 18:43	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 18:43	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 18:43	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 18:43	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 18:43	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 18:43	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 18:43	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 18:43	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 18:43	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 18:43	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 18:43	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 18:43	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 18:43	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 18:43	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 18:43	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 18:43	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 18:43	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 18:43	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 18:43	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 18:43	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 18:43	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 18:43	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 18:43	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 18:43	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 18:43	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 18:43	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 18:43	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 18:43	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 18:43	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 18:43	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 18:43	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 18:43	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 18:43	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 18:43	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 18:43	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 18:43	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 18:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*07/12/22 18:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*56 - 136*		*07/12/22 18:43*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*07/12/22 18:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*07/12/22 18:43*	*1*
Toluene-d8 (Surr)	*94*		*78 - 122*		*07/12/22 18:43*	*1*

Client Sample ID: MSA-SW42A-070622

Date Collected: 07/06/22 09:16
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-17

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 19:07	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 19:07	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 19:07	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 19:07	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 19:07	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 19:07	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 19:07	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 19:07	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 19:07	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 19:07	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 19:07	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 19:07	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 19:07	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 19:07	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 19:07	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 19:07	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 19:07	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 19:07	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 19:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 19:07	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 19:07	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 19:07	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 19:07	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 19:07	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 19:07	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 19:07	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 19:07	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 19:07	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 19:07	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 19:07	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 19:07	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 19:07	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 19:07	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 19:07	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 19:07	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 19:07	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 19:07	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 19:07	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 19:07	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 19:07	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 19:07	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 19:07	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 19:07	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 19:07	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 19:07	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 19:07	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 19:07	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 19:07	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 19:07	1

Client Sample ID: MSA-SW42A-070622

Lab Sample ID: 240-169444-17

Date Collected: 07/06/22 09:16
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 19:07	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 19:07	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 19:07	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 19:07	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 19:07	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 19:07	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 19:07	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 19:07	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 19:07	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 19:07	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 19:07	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 19:07	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 19:07	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 19:07	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 19:07	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 19:07	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 19:07	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 19:07	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 19:07	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 19:07	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 19:07	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 19:07	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 19:07	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*		*07/12/22 19:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*56 - 136*		*07/12/22 19:07*	*1*
Dibromofluoromethane (Surr)	*112*		*73 - 120*		*07/12/22 19:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*62 - 137*		*07/12/22 19:07*	*1*
Toluene-d8 (Surr)	*92*		*78 - 122*		*07/12/22 19:07*	*1*

Client Sample ID: MSA-SW42B-070622

Lab Sample ID: 240-169444-18

Date Collected: 07/06/22 09:19
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 19:30	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 19:30	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 19:30	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 19:30	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 19:30	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 19:30	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 19:30	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 19:30	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 19:30	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 19:30	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 19:30	1

Client Sample ID: MSA-SW42B-070622

Date Collected: 07/06/22 09:19
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 19:30	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 19:30	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 19:30	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 19:30	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 19:30	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 19:30	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 19:30	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 19:30	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 19:30	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 19:30	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 19:30	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 19:30	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 19:30	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 19:30	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 19:30	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 19:30	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 19:30	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 19:30	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 19:30	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 19:30	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 19:30	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 19:30	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 19:30	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 19:30	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 19:30	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 19:30	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 19:30	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 19:30	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 19:30	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 19:30	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 19:30	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 19:30	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 19:30	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 19:30	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 19:30	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 19:30	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 19:30	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 19:30	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 19:30	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 19:30	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 19:30	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 19:30	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 19:30	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 19:30	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 19:30	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 19:30	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 19:30	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 19:30	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 19:30	1

Client Sample ID: MSA-SW42B-070622

Lab Sample ID: 240-169444-18

Date Collected: 07/06/22 09:19
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 19:30	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 19:30	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 19:30	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 19:30	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 19:30	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 19:30	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 19:30	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 19:30	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 19:30	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 19:30	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 19:30	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 19:30	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*		*07/12/22 19:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*56 - 136*		*07/12/22 19:30*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*07/12/22 19:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*		*07/12/22 19:30*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*07/12/22 19:30*	*1*

Client Sample ID: MSA-SW42C-070622

Lab Sample ID: 240-169444-19

Date Collected: 07/06/22 09:22
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 19:53	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 19:53	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 19:53	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 19:53	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 19:53	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 19:53	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 19:53	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 19:53	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 19:53	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 19:53	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 19:53	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 19:53	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 19:53	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 19:53	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 19:53	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 19:53	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 19:53	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 19:53	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 19:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 19:53	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 19:53	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 19:53	1

Client Sample ID: MSA-SW42C-070622

Date Collected: 07/06/22 09:22
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-19

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 19:53	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 19:53	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 19:53	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 19:53	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 19:53	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 19:53	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 19:53	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 19:53	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 19:53	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 19:53	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 19:53	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 19:53	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 19:53	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 19:53	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 19:53	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 19:53	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 19:53	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 19:53	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 19:53	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 19:53	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 19:53	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 19:53	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 19:53	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 19:53	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 19:53	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 19:53	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 19:53	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 19:53	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 19:53	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 19:53	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 19:53	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 19:53	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 19:53	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 19:53	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 19:53	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 19:53	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 19:53	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 19:53	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 19:53	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 19:53	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 19:53	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 19:53	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 19:53	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 19:53	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 19:53	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 19:53	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 19:53	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 19:53	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 19:53	1

Client Sample ID: MSA-SW42C-070622

Lab Sample ID: 240-169444-19

Date Collected: 07/06/22 09:22

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 19:53	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*		*07/12/22 19:53*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*56 - 136*		*07/12/22 19:53*	*1*
Dibromofluoromethane (Surr)	*111*		*73 - 120*		*07/12/22 19:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*07/12/22 19:53*	*1*
Toluene-d8 (Surr)	*93*		*78 - 122*		*07/12/22 19:53*	*1*

Client Sample ID: MSA-SW42D-070622

Lab Sample ID: 240-169444-20

Date Collected: 07/06/22 09:26

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 20:16	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 20:16	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 20:16	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 20:16	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 20:16	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 20:16	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 20:16	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 20:16	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 20:16	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 20:16	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 20:16	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 20:16	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 20:16	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 20:16	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 20:16	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 20:16	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 20:16	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 20:16	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 20:16	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 20:16	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 20:16	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 20:16	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 20:16	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 20:16	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 20:16	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 20:16	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 20:16	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 20:16	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 20:16	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 20:16	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 20:16	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 20:16	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 20:16	1

Client Sample ID: MSA-SW42D-070622

Date Collected: 07/06/22 09:26
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 20:16	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 20:16	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 20:16	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 20:16	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 20:16	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 20:16	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 20:16	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 20:16	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 20:16	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 20:16	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 20:16	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 20:16	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 20:16	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 20:16	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 20:16	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 20:16	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 20:16	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 20:16	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 20:16	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 20:16	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 20:16	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 20:16	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 20:16	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 20:16	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 20:16	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 20:16	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 20:16	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 20:16	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 20:16	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 20:16	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 20:16	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 20:16	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 20:16	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 20:16	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 20:16	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 20:16	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 20:16	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 20:16	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 20:16	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*		*07/12/22 20:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*56 - 136*		*07/12/22 20:16*	*1*
Dibromofluoromethane (Surr)	*111*		*73 - 120*		*07/12/22 20:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*		*07/12/22 20:16*	*1*
Toluene-d8 (Surr)	*96*		*78 - 122*		*07/12/22 20:16*	*1*

Client Sample ID: MSA-SW43A-070622

Date Collected: 07/06/22 08:00
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 20:39	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 20:39	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 20:39	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 20:39	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 20:39	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 20:39	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 20:39	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 20:39	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 20:39	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 20:39	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 20:39	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 20:39	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 20:39	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 20:39	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 20:39	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 20:39	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 20:39	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 20:39	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 20:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 20:39	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 20:39	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 20:39	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 20:39	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 20:39	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 20:39	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 20:39	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 20:39	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 20:39	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 20:39	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 20:39	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 20:39	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 20:39	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 20:39	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 20:39	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 20:39	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 20:39	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 20:39	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 20:39	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 20:39	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 20:39	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 20:39	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 20:39	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 20:39	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 20:39	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 20:39	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 20:39	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 20:39	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 20:39	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 20:39	1

Client Sample ID: MSA-SW43A-070622

Lab Sample ID: 240-169444-21

Date Collected: 07/06/22 08:00
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 20:39	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 20:39	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 20:39	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 20:39	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 20:39	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 20:39	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 20:39	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 20:39	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 20:39	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 20:39	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 20:39	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 20:39	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 20:39	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 20:39	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 20:39	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 20:39	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 20:39	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 20:39	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 20:39	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 20:39	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 20:39	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 20:39	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 20:39	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*		*07/12/22 20:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*56 - 136*		*07/12/22 20:39*	*1*
Dibromofluoromethane (Surr)	*112*		*73 - 120*		*07/12/22 20:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*62 - 137*		*07/12/22 20:39*	*1*
Toluene-d8 (Surr)	*96*		*78 - 122*		*07/12/22 20:39*	*1*

Client Sample ID: MSA-SW43B-070622

Lab Sample ID: 240-169444-22

Date Collected: 07/06/22 08:05
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 21:02	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 21:02	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 21:02	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 21:02	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 21:02	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 21:02	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 21:02	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 21:02	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 21:02	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 21:02	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 21:02	1

Client Sample ID: MSA-SW43B-070622

Date Collected: 07/06/22 08:05
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-22

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 21:02	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 21:02	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 21:02	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 21:02	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 21:02	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 21:02	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 21:02	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 21:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 21:02	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 21:02	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 21:02	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 21:02	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 21:02	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 21:02	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 21:02	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 21:02	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 21:02	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 21:02	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 21:02	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 21:02	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 21:02	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 21:02	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 21:02	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 21:02	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 21:02	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 21:02	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 21:02	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 21:02	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 21:02	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 21:02	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 21:02	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 21:02	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 21:02	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 21:02	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 21:02	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 21:02	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 21:02	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 21:02	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 21:02	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 21:02	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 21:02	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 21:02	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 21:02	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 21:02	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 21:02	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 21:02	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 21:02	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 21:02	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 21:02	1

Client Sample ID: MSA-SW43B-070622

Lab Sample ID: 240-169444-22

Date Collected: 07/06/22 08:05
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 21:02	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 21:02	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 21:02	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 21:02	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 21:02	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 21:02	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 21:02	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 21:02	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 21:02	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 21:02	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 21:02	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 21:02	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*		*07/12/22 21:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*56 - 136*		*07/12/22 21:02*	*1*
Dibromofluoromethane (Surr)	*107*		*73 - 120*		*07/12/22 21:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*07/12/22 21:02*	*1*
Toluene-d8 (Surr)	*91*		*78 - 122*		*07/12/22 21:02*	*1*

Client Sample ID: MSA-SW43C-070622

Lab Sample ID: 240-169444-23

Date Collected: 07/06/22 08:08
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 21:25	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 21:25	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 21:25	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 21:25	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 21:25	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 21:25	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 21:25	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 21:25	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 21:25	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 21:25	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 21:25	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 21:25	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 21:25	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 21:25	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 21:25	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 21:25	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 21:25	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 21:25	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 21:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 21:25	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 21:25	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 21:25	1

Client Sample ID: MSA-SW43C-070622

Date Collected: 07/06/22 08:08
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-23

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 21:25	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 21:25	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 21:25	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 21:25	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 21:25	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 21:25	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 21:25	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 21:25	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 21:25	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 21:25	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 21:25	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 21:25	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 21:25	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 21:25	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 21:25	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 21:25	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 21:25	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 21:25	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 21:25	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 21:25	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 21:25	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 21:25	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 21:25	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 21:25	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 21:25	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 21:25	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 21:25	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 21:25	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 21:25	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 21:25	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 21:25	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 21:25	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 21:25	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 21:25	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 21:25	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 21:25	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 21:25	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 21:25	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 21:25	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 21:25	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 21:25	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 21:25	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 21:25	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 21:25	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 21:25	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 21:25	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 21:25	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 21:25	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 21:25	1

Client Sample ID: MSA-SW43C-070622

Lab Sample ID: 240-169444-23

Date Collected: 07/06/22 08:08

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 21:25	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*		*07/12/22 21:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*07/12/22 21:25*	*1*
Dibromofluoromethane (Surr)	*112*		*73 - 120*		*07/12/22 21:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*		*07/12/22 21:25*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*07/12/22 21:25*	*1*

Client Sample ID: MSA-SW43D-070622

Lab Sample ID: 240-169444-24

Date Collected: 07/06/22 08:11

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/13/22 16:12	1
Benzene	0.42	U	1.0	0.42	ug/L			07/13/22 16:12	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/13/22 16:12	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/13/22 16:12	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/13/22 16:12	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/13/22 16:12	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/13/22 16:12	1
2-Butanone	1.2	U	10	1.2	ug/L			07/13/22 16:12	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/13/22 16:12	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/13/22 16:12	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/13/22 16:12	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/13/22 16:12	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/13/22 16:12	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/13/22 16:12	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/13/22 16:12	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/13/22 16:12	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/13/22 16:12	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/13/22 16:12	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/13/22 16:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/13/22 16:12	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/13/22 16:12	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/13/22 16:12	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/13/22 16:12	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/13/22 16:12	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/13/22 16:12	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/13/22 16:12	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/13/22 16:12	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/13/22 16:12	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/13/22 16:12	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/13/22 16:12	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/13/22 16:12	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/13/22 16:12	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/13/22 16:12	1

Client Sample ID: MSA-SW43D-070622

Date Collected: 07/06/22 08:11
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-24

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/13/22 16:12	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/13/22 16:12	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/13/22 16:12	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/13/22 16:12	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/13/22 16:12	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/13/22 16:12	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/13/22 16:12	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/13/22 16:12	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/13/22 16:12	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/13/22 16:12	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/13/22 16:12	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/13/22 16:12	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/13/22 16:12	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/13/22 16:12	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/13/22 16:12	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/13/22 16:12	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/13/22 16:12	1
Styrene	0.45	U	1.0	0.45	ug/L			07/13/22 16:12	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/13/22 16:12	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/13/22 16:12	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/13/22 16:12	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/13/22 16:12	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/13/22 16:12	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 16:12	1
Toluene	0.44	U	1.0	0.44	ug/L			07/13/22 16:12	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/13/22 16:12	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/13/22 16:12	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/13/22 16:12	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/13/22 16:12	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/13/22 16:12	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 16:12	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/13/22 16:12	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/13/22 16:12	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/13/22 16:12	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/13/22 16:12	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/13/22 16:12	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/13/22 16:12	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/13/22 16:12	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/13/22 16:12	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*		*07/13/22 16:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*56 - 136*		*07/13/22 16:12*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 120*		*07/13/22 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*62 - 137*		*07/13/22 16:12*	*1*
Toluene-d8 (Surr)	*89*		*78 - 122*		*07/13/22 16:12*	*1*

Client Sample ID: TB-070622

Date Collected: 07/06/22 00:00
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-25

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/13/22 16:35	1
Benzene	0.42	U	1.0	0.42	ug/L			07/13/22 16:35	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/13/22 16:35	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/13/22 16:35	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/13/22 16:35	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/13/22 16:35	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/13/22 16:35	1
2-Butanone	1.2	U	10	1.2	ug/L			07/13/22 16:35	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/13/22 16:35	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/13/22 16:35	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/13/22 16:35	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/13/22 16:35	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/13/22 16:35	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/13/22 16:35	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/13/22 16:35	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/13/22 16:35	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/13/22 16:35	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/13/22 16:35	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/13/22 16:35	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/13/22 16:35	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/13/22 16:35	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/13/22 16:35	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/13/22 16:35	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/13/22 16:35	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/13/22 16:35	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/13/22 16:35	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/13/22 16:35	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/13/22 16:35	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/13/22 16:35	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/13/22 16:35	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/13/22 16:35	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/13/22 16:35	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/13/22 16:35	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/13/22 16:35	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/13/22 16:35	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/13/22 16:35	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/13/22 16:35	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/13/22 16:35	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/13/22 16:35	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/13/22 16:35	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/13/22 16:35	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/13/22 16:35	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/13/22 16:35	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/13/22 16:35	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/13/22 16:35	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/13/22 16:35	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/13/22 16:35	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/13/22 16:35	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/13/22 16:35	1

Client Sample ID: TB-070622

Lab Sample ID: 240-169444-25

Date Collected: 07/06/22 00:00
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/13/22 16:35	1
Styrene	0.45	U	1.0	0.45	ug/L			07/13/22 16:35	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/13/22 16:35	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/13/22 16:35	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/13/22 16:35	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/13/22 16:35	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/13/22 16:35	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 16:35	1
Toluene	0.44	U	1.0	0.44	ug/L			07/13/22 16:35	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/13/22 16:35	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/13/22 16:35	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/13/22 16:35	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/13/22 16:35	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/13/22 16:35	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 16:35	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/13/22 16:35	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/13/22 16:35	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/13/22 16:35	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/13/22 16:35	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/13/22 16:35	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/13/22 16:35	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/13/22 16:35	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/13/22 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*		*07/13/22 16:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*56 - 136*		*07/13/22 16:35*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*07/13/22 16:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*62 - 137*		*07/13/22 16:35*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*07/13/22 16:35*	*1*

Client Sample ID: MSA-SW46A-070622

Lab Sample ID: 240-169444-26

Date Collected: 07/06/22 09:12
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/13/22 16:58	1
Benzene	0.42	U	1.0	0.42	ug/L			07/13/22 16:58	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/13/22 16:58	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/13/22 16:58	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/13/22 16:58	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/13/22 16:58	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/13/22 16:58	1
2-Butanone	1.2	U	10	1.2	ug/L			07/13/22 16:58	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/13/22 16:58	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/13/22 16:58	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/13/22 16:58	1

Client Sample ID: MSA-SW46A-070622

Date Collected: 07/06/22 09:12
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-26

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.83	U	1.0	0.83	ug/L			07/13/22 16:58	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/13/22 16:58	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/13/22 16:58	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/13/22 16:58	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/13/22 16:58	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/13/22 16:58	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/13/22 16:58	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/13/22 16:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/13/22 16:58	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/13/22 16:58	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/13/22 16:58	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/13/22 16:58	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/13/22 16:58	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/13/22 16:58	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/13/22 16:58	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/13/22 16:58	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/13/22 16:58	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/13/22 16:58	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/13/22 16:58	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/13/22 16:58	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/13/22 16:58	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/13/22 16:58	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/13/22 16:58	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/13/22 16:58	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/13/22 16:58	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/13/22 16:58	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/13/22 16:58	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/13/22 16:58	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/13/22 16:58	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/13/22 16:58	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/13/22 16:58	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/13/22 16:58	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/13/22 16:58	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/13/22 16:58	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/13/22 16:58	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/13/22 16:58	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/13/22 16:58	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/13/22 16:58	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/13/22 16:58	1
Styrene	0.45	U	1.0	0.45	ug/L			07/13/22 16:58	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/13/22 16:58	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/13/22 16:58	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/13/22 16:58	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/13/22 16:58	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/13/22 16:58	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 16:58	1
Toluene	0.44	U	1.0	0.44	ug/L			07/13/22 16:58	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/13/22 16:58	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/13/22 16:58	1

Client Sample ID: MSA-SW46A-070622

Lab Sample ID: 240-169444-26

Date Collected: 07/06/22 09:12
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/13/22 16:58	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/13/22 16:58	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/13/22 16:58	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 16:58	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/13/22 16:58	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/13/22 16:58	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/13/22 16:58	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/13/22 16:58	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/13/22 16:58	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/13/22 16:58	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/13/22 16:58	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/13/22 16:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*07/13/22 16:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*56 - 136*		*07/13/22 16:58*	*1*
Dibromofluoromethane (Surr)	*107*		*73 - 120*		*07/13/22 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*		*07/13/22 16:58*	*1*
Toluene-d8 (Surr)	*93*		*78 - 122*		*07/13/22 16:58*	*1*

Client Sample ID: MSA-SW47A-070622

Lab Sample ID: 240-169444-27

Date Collected: 07/06/22 08:54
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/13/22 17:22	1
Benzene	0.42	U	1.0	0.42	ug/L			07/13/22 17:22	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/13/22 17:22	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/13/22 17:22	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/13/22 17:22	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/13/22 17:22	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/13/22 17:22	1
2-Butanone	1.2	U	10	1.2	ug/L			07/13/22 17:22	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/13/22 17:22	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/13/22 17:22	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/13/22 17:22	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/13/22 17:22	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/13/22 17:22	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/13/22 17:22	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/13/22 17:22	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/13/22 17:22	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/13/22 17:22	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/13/22 17:22	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/13/22 17:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/13/22 17:22	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/13/22 17:22	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/13/22 17:22	1

Client Sample ID: MSA-SW47A-070622

Date Collected: 07/06/22 08:54
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/13/22 17:22	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/13/22 17:22	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/13/22 17:22	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/13/22 17:22	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/13/22 17:22	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/13/22 17:22	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/13/22 17:22	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/13/22 17:22	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/13/22 17:22	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/13/22 17:22	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/13/22 17:22	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/13/22 17:22	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/13/22 17:22	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/13/22 17:22	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/13/22 17:22	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/13/22 17:22	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/13/22 17:22	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/13/22 17:22	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/13/22 17:22	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/13/22 17:22	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/13/22 17:22	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/13/22 17:22	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/13/22 17:22	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/13/22 17:22	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/13/22 17:22	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/13/22 17:22	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/13/22 17:22	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/13/22 17:22	1
Styrene	0.45	U	1.0	0.45	ug/L			07/13/22 17:22	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/13/22 17:22	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/13/22 17:22	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/13/22 17:22	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/13/22 17:22	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/13/22 17:22	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 17:22	1
Toluene	0.44	U	1.0	0.44	ug/L			07/13/22 17:22	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/13/22 17:22	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/13/22 17:22	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/13/22 17:22	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/13/22 17:22	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/13/22 17:22	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 17:22	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/13/22 17:22	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/13/22 17:22	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/13/22 17:22	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/13/22 17:22	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/13/22 17:22	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/13/22 17:22	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/13/22 17:22	1

Client Sample ID: MSA-SW47A-070622

Lab Sample ID: 240-169444-27

Date Collected: 07/06/22 08:54

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/13/22 17:22	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*		*07/13/22 17:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*56 - 136*		*07/13/22 17:22*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 120*		*07/13/22 17:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*62 - 137*		*07/13/22 17:22*	*1*
Toluene-d8 (Surr)	*90*		*78 - 122*		*07/13/22 17:22*	*1*

Client Sample ID: MSA-SW48A-070622

Lab Sample ID: 240-169444-28

Date Collected: 07/06/22 08:36

Matrix: Water

Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/13/22 17:45	1
Benzene	0.42	U	1.0	0.42	ug/L			07/13/22 17:45	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/13/22 17:45	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/13/22 17:45	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/13/22 17:45	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/13/22 17:45	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/13/22 17:45	1
2-Butanone	1.2	U	10	1.2	ug/L			07/13/22 17:45	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/13/22 17:45	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/13/22 17:45	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/13/22 17:45	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/13/22 17:45	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/13/22 17:45	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/13/22 17:45	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/13/22 17:45	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/13/22 17:45	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/13/22 17:45	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/13/22 17:45	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/13/22 17:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/13/22 17:45	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/13/22 17:45	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/13/22 17:45	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/13/22 17:45	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/13/22 17:45	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/13/22 17:45	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/13/22 17:45	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/13/22 17:45	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/13/22 17:45	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/13/22 17:45	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/13/22 17:45	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/13/22 17:45	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/13/22 17:45	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/13/22 17:45	1

Client Sample ID: MSA-SW48A-070622

Date Collected: 07/06/22 08:36
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/13/22 17:45	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/13/22 17:45	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/13/22 17:45	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/13/22 17:45	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/13/22 17:45	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/13/22 17:45	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/13/22 17:45	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/13/22 17:45	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/13/22 17:45	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/13/22 17:45	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/13/22 17:45	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/13/22 17:45	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/13/22 17:45	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/13/22 17:45	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/13/22 17:45	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/13/22 17:45	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/13/22 17:45	1
Styrene	0.45	U	1.0	0.45	ug/L			07/13/22 17:45	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/13/22 17:45	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/13/22 17:45	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/13/22 17:45	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/13/22 17:45	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/13/22 17:45	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 17:45	1
Toluene	0.44	U	1.0	0.44	ug/L			07/13/22 17:45	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/13/22 17:45	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/13/22 17:45	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/13/22 17:45	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/13/22 17:45	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/13/22 17:45	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 17:45	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/13/22 17:45	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/13/22 17:45	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/13/22 17:45	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/13/22 17:45	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/13/22 17:45	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/13/22 17:45	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/13/22 17:45	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/13/22 17:45	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*		*07/13/22 17:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*56 - 136*		*07/13/22 17:45*	*1*
Dibromofluoromethane (Surr)	*112*		*73 - 120*		*07/13/22 17:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*62 - 137*		*07/13/22 17:45*	*1*
Toluene-d8 (Surr)	*101*		*78 - 122*		*07/13/22 17:45*	*1*

Client Sample ID: MSA-SW49A-070622

Date Collected: 07/06/22 08:16
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-29

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/13/22 18:08	1
Benzene	0.42	U	1.0	0.42	ug/L			07/13/22 18:08	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/13/22 18:08	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/13/22 18:08	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/13/22 18:08	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/13/22 18:08	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/13/22 18:08	1
2-Butanone	1.2	U	10	1.2	ug/L			07/13/22 18:08	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/13/22 18:08	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/13/22 18:08	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/13/22 18:08	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/13/22 18:08	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/13/22 18:08	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/13/22 18:08	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/13/22 18:08	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/13/22 18:08	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/13/22 18:08	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/13/22 18:08	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/13/22 18:08	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/13/22 18:08	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/13/22 18:08	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/13/22 18:08	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/13/22 18:08	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/13/22 18:08	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/13/22 18:08	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/13/22 18:08	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/13/22 18:08	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/13/22 18:08	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/13/22 18:08	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/13/22 18:08	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/13/22 18:08	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/13/22 18:08	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/13/22 18:08	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/13/22 18:08	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/13/22 18:08	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/13/22 18:08	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/13/22 18:08	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/13/22 18:08	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/13/22 18:08	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/13/22 18:08	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/13/22 18:08	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/13/22 18:08	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/13/22 18:08	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/13/22 18:08	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/13/22 18:08	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/13/22 18:08	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/13/22 18:08	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/13/22 18:08	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/13/22 18:08	1

Client Sample ID: MSA-SW49A-070622

Lab Sample ID: 240-169444-29

Date Collected: 07/06/22 08:16
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/13/22 18:08	1
Styrene	0.45	U	1.0	0.45	ug/L			07/13/22 18:08	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/13/22 18:08	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/13/22 18:08	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/13/22 18:08	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/13/22 18:08	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/13/22 18:08	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 18:08	1
Toluene	0.44	U	1.0	0.44	ug/L			07/13/22 18:08	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/13/22 18:08	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/13/22 18:08	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/13/22 18:08	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/13/22 18:08	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/13/22 18:08	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 18:08	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/13/22 18:08	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/13/22 18:08	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/13/22 18:08	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/13/22 18:08	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/13/22 18:08	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/13/22 18:08	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/13/22 18:08	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/13/22 18:08	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*		*07/13/22 18:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*56 - 136*		*07/13/22 18:08*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 120*		*07/13/22 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*62 - 137*		*07/13/22 18:08*	*1*
Toluene-d8 (Surr)	*90*		*78 - 122*		*07/13/22 18:08*	*1*

Client Sample ID: MSA-SWEQB-070622

Lab Sample ID: 240-169444-30

Date Collected: 07/06/22 00:00
Matrix: Water
Date Received: 07/07/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/13/22 18:31	1
Benzene	0.42	U	1.0	0.42	ug/L			07/13/22 18:31	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/13/22 18:31	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/13/22 18:31	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/13/22 18:31	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/13/22 18:31	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/13/22 18:31	1
2-Butanone	1.2	U	10	1.2	ug/L			07/13/22 18:31	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/13/22 18:31	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/13/22 18:31	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/13/22 18:31	1

Client Sample ID: MSA-SWEQB-070622

Date Collected: 07/06/22 00:00
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.83	U	1.0	0.83	ug/L			07/13/22 18:31	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/13/22 18:31	1
Chloroform	**1.8**		1.0	0.47	ug/L			07/13/22 18:31	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/13/22 18:31	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/13/22 18:31	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/13/22 18:31	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/13/22 18:31	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/13/22 18:31	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/13/22 18:31	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/13/22 18:31	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/13/22 18:31	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/13/22 18:31	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/13/22 18:31	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/13/22 18:31	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/13/22 18:31	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/13/22 18:31	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/13/22 18:31	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/13/22 18:31	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/13/22 18:31	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/13/22 18:31	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/13/22 18:31	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/13/22 18:31	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/13/22 18:31	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/13/22 18:31	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/13/22 18:31	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/13/22 18:31	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/13/22 18:31	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/13/22 18:31	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/13/22 18:31	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/13/22 18:31	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/13/22 18:31	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/13/22 18:31	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/13/22 18:31	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/13/22 18:31	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/13/22 18:31	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/13/22 18:31	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/13/22 18:31	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/13/22 18:31	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/13/22 18:31	1
Styrene	0.45	U	1.0	0.45	ug/L			07/13/22 18:31	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/13/22 18:31	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/13/22 18:31	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/13/22 18:31	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/13/22 18:31	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/13/22 18:31	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 18:31	1
Toluene	0.44	U	1.0	0.44	ug/L			07/13/22 18:31	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/13/22 18:31	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/13/22 18:31	1

Client Sample ID: MSA-SWEQB-070622

Date Collected: 07/06/22 00:00
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/13/22 18:31	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/13/22 18:31	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/13/22 18:31	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 18:31	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/13/22 18:31	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/13/22 18:31	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/13/22 18:31	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/13/22 18:31	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/13/22 18:31	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/13/22 18:31	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/13/22 18:31	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/13/22 18:31	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*		*07/13/22 18:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*56 - 136*		*07/13/22 18:31*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*07/13/22 18:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*07/13/22 18:31*	*1*
Toluene-d8 (Surr)	*93*		*78 - 122*		*07/13/22 18:31*	*1*

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MSA SW 2022

Job ID: 240-169444-1
SDG: MSA Frog Mortar Creek

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

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.43	ug/L
1,1,1-Trichloroethane	1.0	0.48	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.60	ug/L
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	0.41	ug/L
1,1-Dichloroethane	1.0	0.47	ug/L
1,1-Dichloroethene	1.0	0.49	ug/L
1,1-Dichloropropene	1.0	0.36	ug/L
1,2,3-Trichlorobenzene	1.0	0.54	ug/L
1,2,3-Trichloropropane	1.0	0.52	ug/L
1,2,3-Trimethylbenzene	5.0	0.31	ug/L
1,2,4-Trichlorobenzene	1.0	0.77	ug/L
1,2,4-Trimethylbenzene	1.0	0.52	ug/L
1,2-Dibromo-3-Chloropropane	2.0	0.91	ug/L
1,2-Dibromoethane	1.0	0.41	ug/L
1,2-Dichlorobenzene	1.0	0.48	ug/L
1,2-Dichloroethane	1.0	0.21	ug/L
1,2-Dichloropropane	1.0	0.47	ug/L
1,3-Dichlorobenzene	1.0	0.45	ug/L
1,3-Dichloropropane	1.0	0.21	ug/L
1,4-Dichlorobenzene	1.0	0.41	ug/L
2,2-Dichloropropane	1.0	0.78	ug/L
2-Butanone	10	1.2	ug/L
2-Chloroethyl vinyl ether	10	1.5	ug/L
2-Chlorotoluene	1.0	0.57	ug/L
2-Hexanone	10	1.1	ug/L
4-Chlorotoluene	1.0	0.43	ug/L
4-Methyl-2-pentanone	10	0.99	ug/L
Acetone	10	5.4	ug/L
Benzene	1.0	0.42	ug/L
Bromobenzene	1.0	0.50	ug/L
Bromochloromethane	1.0	0.54	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	0.59	ug/L
Carbon tetrachloride	1.0	0.26	ug/L
Chlorobenzene	1.0	0.38	ug/L
Chloroethane	1.0	0.83	ug/L
Chloroform	1.0	0.47	ug/L
Chloromethane	1.0	0.63	ug/L
cis-1,2-Dichloroethene	1.0	0.46	ug/L
cis-1,3-Dichloropropene	1.0	0.61	ug/L
Dibromochloromethane	1.0	0.39	ug/L
Dibromomethane	1.0	0.40	ug/L
Dichlorodifluoromethane	1.0	0.35	ug/L
Diisopropyl ether	10	0.17	ug/L
Ethylbenzene	1.0	0.42	ug/L
Ethyl-t-butyl ether (ETBE)	5.0	0.40	ug/L
Hexachlorobutadiene	1.0	0.83	ug/L
Isopropylbenzene	1.0	0.49	ug/L
Methyl tert-butyl ether	1.0	0.47	ug/L
Methylene Chloride	5.0	2.6	ug/L
m-Xylene & p-Xylene	2.0	0.42	ug/L

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

Analyte	RL	MDL	Units
Naphthalene	1.0	0.80	ug/L
n-Butylbenzene	1.0	0.60	ug/L
n-Propylbenzene	1.0	0.57	ug/L
o-Xylene	1.0	0.42	ug/L
p-Isopropyltoluene	1.0	0.56	ug/L
sec-Butylbenzene	1.0	0.53	ug/L
Styrene	1.0	0.45	ug/L
Tert-amyl-methyl ether (TAME)	5.0	0.43	ug/L
tert-Butyl alcohol	40	7.2	ug/L
tert-Butylbenzene	1.0	0.48	ug/L
Tetrachloroethene	1.0	0.44	ug/L
Toluene	1.0	0.44	ug/L
trans-1,2-Dichloroethene	1.0	0.51	ug/L
trans-1,3-Dichloropropene	1.0	0.67	ug/L
Trichloroethene	1.0	0.44	ug/L
Trichlorofluoromethane	1.0	0.45	ug/L
Vinyl acetate	2.0	0.61	ug/L
Vinyl chloride	1.0	0.45	ug/L
Xylenes, Total	2.0	0.42	ug/L

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MSA SW 2022

Job ID: 240-169444-1
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	(56-136)	(73-120)	(62-137)	(78-122)
240-169444-1	MSA-SW37A-070622	88	108	103	97
240-169444-2	MSA-SW37B-070622	86	105	103	93
240-169444-3	MSA-SW37C-070622	86	105	100	95
240-169444-4	MSA-SW37D-070622	83	103	100	91
240-169444-5	MSA-SW38A-070622	86	107	103	95
240-169444-6	MSA-SW38B-070622	88	108	102	96
240-169444-7	MSA-SW38C-070622	85	107	101	93
240-169444-8	MSA-SW38D-070622	83	105	101	92
240-169444-9	MSA-SW40A-070622	83	108	101	95
240-169444-10	MSA-SW40B-070622	82	103	98	91
240-169444-11	MSA-SW40C-070622	85	110	105	94
240-169444-12	MSA-SW40D-070622	82	104	98	89
240-169444-13	MSA-SW41A-070622	89	110	105	97
240-169444-14	MSA-SW41B-070622	83	105	101	93
240-169444-15	MSA-SW41C-070622	82	106	101	91
240-169444-16	MSA-SW41D-070622	84	110	103	94
240-169444-17	MSA-SW42A-070622	84	112	104	92
240-169444-18	MSA-SW42B-070622	83	110	105	95
240-169444-19	MSA-SW42C-070622	84	111	103	93
240-169444-20	MSA-SW42D-070622	88	111	105	96
240-169444-21	MSA-SW43A-070622	87	112	108	96
240-169444-22	MSA-SW43B-070622	82	107	101	91
240-169444-23	MSA-SW43C-070622	86	112	105	95
240-169444-24	MSA-SW43D-070622	82	102	98	89
240-169444-25	TB-070622	88	110	104	95
240-169444-26	MSA-SW46A-070622	84	107	102	93
240-169444-27	MSA-SW47A-070622	81	104	99	90
240-169444-28	MSA-SW48A-070622	92	112	107	101
240-169444-29	MSA-SW49A-070622	80	104	100	90
240-169444-30	MSA-SWEQB-070622	84	110	103	93
LCS 240-534172/5	Lab Control Sample	98	102	97	99
LCS 240-534342/5	Lab Control Sample	88	100	92	91
LCS 240-534562/8	Lab Control Sample	88	102	94	92
MB 240-534172/8	Method Blank	85	105	99	91
MB 240-534342/8	Method Blank	86	104	100	92
MB 240-534562/10	Method Blank	87	109	101	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 240-534172/8
Matrix: Water
Analysis Batch: 534172

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/11/22 15:54	1
Benzene	0.42	U	1.0	0.42	ug/L			07/11/22 15:54	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/11/22 15:54	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/11/22 15:54	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/11/22 15:54	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/11/22 15:54	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/11/22 15:54	1
2-Butanone	1.2	U	10	1.2	ug/L			07/11/22 15:54	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/11/22 15:54	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/11/22 15:54	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/11/22 15:54	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/11/22 15:54	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/11/22 15:54	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/11/22 15:54	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/11/22 15:54	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/11/22 15:54	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/11/22 15:54	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/11/22 15:54	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/11/22 15:54	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/11/22 15:54	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/11/22 15:54	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/11/22 15:54	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/11/22 15:54	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/11/22 15:54	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/11/22 15:54	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/11/22 15:54	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/11/22 15:54	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/11/22 15:54	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/11/22 15:54	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/11/22 15:54	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/11/22 15:54	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/11/22 15:54	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/11/22 15:54	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/11/22 15:54	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/11/22 15:54	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/11/22 15:54	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/11/22 15:54	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/11/22 15:54	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/11/22 15:54	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/11/22 15:54	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/11/22 15:54	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/11/22 15:54	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/11/22 15:54	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/11/22 15:54	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/11/22 15:54	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/11/22 15:54	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/11/22 15:54	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/11/22 15:54	1

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

Lab Sample ID: MB 240-534172/8
Matrix: Water
Analysis Batch: 534172

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/11/22 15:54	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/11/22 15:54	1
Styrene	0.45	U	1.0	0.45	ug/L			07/11/22 15:54	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/11/22 15:54	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/11/22 15:54	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/11/22 15:54	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/11/22 15:54	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/11/22 15:54	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/11/22 15:54	1
Toluene	0.44	U	1.0	0.44	ug/L			07/11/22 15:54	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/11/22 15:54	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/11/22 15:54	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/11/22 15:54	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/11/22 15:54	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/11/22 15:54	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/11/22 15:54	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/11/22 15:54	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/11/22 15:54	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/11/22 15:54	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/11/22 15:54	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/11/22 15:54	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/11/22 15:54	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/11/22 15:54	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/11/22 15:54	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*07/11/22 15:54*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*56 - 136*		*07/11/22 15:54*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*07/11/22 15:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*62 - 137*		*07/11/22 15:54*	*1*
Toluene-d8 (Surr)	*91*		*78 - 122*		*07/11/22 15:54*	*1*

Lab Sample ID: LCS 240-534172/5
Matrix: Water
Analysis Batch: 534172

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	42.1		ug/L		105	50 - 149
Benzene	20.0	20.6		ug/L		103	77 - 123
Bromobenzene	20.0	22.1		ug/L		111	80 - 122
Bromochloromethane	20.0	20.9		ug/L		105	71 - 121
Bromodichloromethane	20.0	20.7		ug/L		103	69 - 126
Bromoform	20.0	23.4		ug/L		117	57 - 129
Bromomethane	20.0	17.2		ug/L		86	36 - 142
2-Butanone	40.0	41.2		ug/L		103	54 - 156
Carbon disulfide	20.0	21.6		ug/L		108	43 - 140

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

Lab Sample ID: LCS 240-534172/5
Matrix: Water
Analysis Batch: 534172

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	20.0	20.9		ug/L		104	55 - 137
Chlorobenzene	20.0	21.3		ug/L		106	80 - 121
Chloroethane	20.0	17.7		ug/L		88	38 - 152
2-Chloroethyl vinyl ether	20.0	19.9		ug/L		100	40 - 157
Chloroform	20.0	20.2		ug/L		101	74 - 122
Chloromethane	20.0	17.4		ug/L		87	47 - 143
2-Chlorotoluene	20.0	20.7		ug/L		104	79 - 124
4-Chlorotoluene	20.0	20.1		ug/L		101	80 - 125
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	77 - 123
cis-1,3-Dichloropropene	20.0	19.7		ug/L		98	64 - 130
Dibromochloromethane	20.0	22.6		ug/L		113	70 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.7		ug/L		98	53 - 135
1,2-Dibromoethane	20.0	20.7		ug/L		104	71 - 134
Dibromomethane	20.0	20.8		ug/L		104	67 - 131
1,2-Dichlorobenzene	20.0	21.9		ug/L		110	78 - 120
1,3-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 120
1,4-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 120
Dichlorodifluoromethane	20.0	20.0		ug/L		100	34 - 153
1,1-Dichloroethane	20.0	19.1		ug/L		96	72 - 127
1,2-Dichloroethane	20.0	19.3		ug/L		97	66 - 128
1,1-Dichloroethene	20.0	21.1		ug/L		106	63 - 134
1,2-Dichloropropane	20.0	20.2		ug/L		101	75 - 133
1,3-Dichloropropane	20.0	20.6		ug/L		103	68 - 139
2,2-Dichloropropane	20.0	20.6		ug/L		103	48 - 142
1,1-Dichloropropene	20.0	19.8		ug/L		99	71 - 124
Ethylbenzene	20.0	20.5		ug/L		103	80 - 121
Hexachlorobutadiene	20.0	23.3		ug/L		117	37 - 162
2-Hexanone	40.0	37.6		ug/L		94	43 - 167
Isopropylbenzene	20.0	20.9		ug/L		104	74 - 128
Methylene Chloride	20.0	20.0		ug/L		100	71 - 125
4-Methyl-2-pentanone	40.0	37.2		ug/L		93	46 - 158
Methyl tert-butyl ether	20.0	18.9		ug/L		94	65 - 126
m-Xylene & p-Xylene	20.0	20.5		ug/L		103	80 - 120
Naphthalene	20.0	18.7		ug/L		94	53 - 138
n-Butylbenzene	20.0	19.8		ug/L		99	62 - 139
n-Propylbenzene	20.0	21.3		ug/L		107	76 - 127
o-Xylene	20.0	20.8		ug/L		104	80 - 123
p-Isopropyltoluene	20.0	20.4		ug/L		102	71 - 132
sec-Butylbenzene	20.0	20.2		ug/L		101	69 - 135
Styrene	20.0	20.7		ug/L		103	80 - 135
tert-Butyl alcohol	200	204		ug/L		102	33 - 153
tert-Butylbenzene	20.0	20.4		ug/L		102	64 - 134
1,1,1,2-Tetrachloroethane	20.0	22.2		ug/L		111	71 - 124
1,1,2,2-Tetrachloroethane	20.0	21.0		ug/L		105	58 - 157
Tetrachloroethene	20.0	23.2		ug/L		116	76 - 123
Toluene	20.0	20.3		ug/L		102	80 - 123
trans-1,2-Dichloroethene	20.0	19.7		ug/L		98	75 - 124
trans-1,3-Dichloropropene	20.0	19.7		ug/L		99	57 - 129
1,2,3-Trichlorobenzene	20.0	22.3		ug/L		111	45 - 149

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

Lab Sample ID: LCS 240-534172/5
Matrix: Water
Analysis Batch: 534172

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,4-Trichlorobenzene			20.0	21.1		ug/L		106	44 - 147		
1,1,1-Trichloroethane			20.0	19.9		ug/L		99	64 - 131		
Trichloroethene			20.0	21.0		ug/L		105	70 - 122		
Trichlorofluoromethane			20.0	19.6		ug/L		98	30 - 170		
1,2,3-Trichloropropane			20.0	21.1		ug/L		106	57 - 150		
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	23.9		ug/L		119	51 - 146		
1,2,4-Trimethylbenzene			20.0	20.7		ug/L		104	77 - 129		
Vinyl acetate			20.0	23.1		ug/L		116	44 - 145		
Vinyl chloride			20.0	18.8		ug/L		94	60 - 144		
Xylenes, Total			40.0	41.3		ug/L		103	80 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*56 - 136*
Dibromofluoromethane (Surr)	*102*		*73 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*62 - 137*
Toluene-d8 (Surr)	*99*		*78 - 122*

Lab Sample ID: MB 240-534342/8
Matrix: Water
Analysis Batch: 534342

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/12/22 13:41	1
Benzene	0.42	U	1.0	0.42	ug/L			07/12/22 13:41	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/12/22 13:41	1
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/12/22 13:41	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/12/22 13:41	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/12/22 13:41	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/12/22 13:41	1
2-Butanone	1.2	U	10	1.2	ug/L			07/12/22 13:41	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/12/22 13:41	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/12/22 13:41	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/12/22 13:41	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/12/22 13:41	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/12/22 13:41	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/12/22 13:41	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/12/22 13:41	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/12/22 13:41	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/12/22 13:41	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/12/22 13:41	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/12/22 13:41	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/12/22 13:41	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/12/22 13:41	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/12/22 13:41	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/12/22 13:41	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/12/22 13:41	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/12/22 13:41	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/12/22 13:41	1

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

Lab Sample ID: MB 240-534342/8
Matrix: Water
Analysis Batch: 534342

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/12/22 13:41	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/12/22 13:41	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/12/22 13:41	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/12/22 13:41	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/12/22 13:41	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/12/22 13:41	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/12/22 13:41	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/12/22 13:41	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/12/22 13:41	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/12/22 13:41	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/12/22 13:41	1
Hexachlorobutadiene	0.83	U	1.0	0.83	ug/L			07/12/22 13:41	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/12/22 13:41	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/12/22 13:41	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/12/22 13:41	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/12/22 13:41	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/12/22 13:41	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/12/22 13:41	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/12/22 13:41	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/12/22 13:41	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/12/22 13:41	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/12/22 13:41	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/12/22 13:41	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/12/22 13:41	1
Styrene	0.45	U	1.0	0.45	ug/L			07/12/22 13:41	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/12/22 13:41	1
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/12/22 13:41	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/12/22 13:41	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/12/22 13:41	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/12/22 13:41	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 13:41	1
Toluene	0.44	U	1.0	0.44	ug/L			07/12/22 13:41	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/12/22 13:41	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/12/22 13:41	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/12/22 13:41	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/12/22 13:41	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/12/22 13:41	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/12/22 13:41	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/12/22 13:41	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/12/22 13:41	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/12/22 13:41	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/12/22 13:41	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/12/22 13:41	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/12/22 13:41	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/12/22 13:41	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/12/22 13:41	1

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

Lab Sample ID: MB 240-534342/8
Matrix: Water
Analysis Batch: 534342

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
Chlorodifluoromethane TIC	1.0	U	ug/L			75-45-6		07/12/22 13:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		56 - 136		07/12/22 13:41	1
Dibromofluoromethane (Surr)	104		73 - 120		07/12/22 13:41	1
1,2-Dichloroethane-d4 (Surr)	100		62 - 137		07/12/22 13:41	1
Toluene-d8 (Surr)	92		78 - 122		07/12/22 13:41	1

Lab Sample ID: LCS 240-534342/5
Matrix: Water
Analysis Batch: 534342

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	46.5		ug/L		116	50 - 149
Benzene	20.0	20.8		ug/L		104	77 - 123
Bromobenzene	20.0	21.5		ug/L		107	80 - 122
Bromochloromethane	20.0	20.5		ug/L		103	71 - 121
Bromodichloromethane	20.0	20.6		ug/L		103	69 - 126
Bromoform	20.0	23.2		ug/L		116	57 - 129
Bromomethane	20.0	17.0		ug/L		85	36 - 142
2-Butanone	40.0	43.1		ug/L		108	54 - 156
Carbon disulfide	20.0	22.0		ug/L		110	43 - 140
Carbon tetrachloride	20.0	21.7		ug/L		108	55 - 137
Chlorobenzene	20.0	21.1		ug/L		106	80 - 121
Chloroethane	20.0	17.5		ug/L		87	38 - 152
2-Chloroethyl vinyl ether	20.0	19.0		ug/L		95	40 - 157
Chloroform	20.0	20.4		ug/L		102	74 - 122
Chloromethane	20.0	17.5		ug/L		87	47 - 143
2-Chlorotoluene	20.0	20.4		ug/L		102	79 - 124
4-Chlorotoluene	20.0	19.9		ug/L		99	80 - 125
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	77 - 123
cis-1,3-Dichloropropene	20.0	19.7		ug/L		98	64 - 130
Dibromochloromethane	20.0	22.2		ug/L		111	70 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/L		105	53 - 135
1,2-Dibromoethane	20.0	20.9		ug/L		104	71 - 134
Dibromomethane	20.0	20.9		ug/L		105	67 - 131
1,2-Dichlorobenzene	20.0	22.0		ug/L		110	78 - 120
1,3-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 120
1,4-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 120
Dichlorodifluoromethane	20.0	20.8		ug/L		104	34 - 153
1,1-Dichloroethane	20.0	19.4		ug/L		97	72 - 127
1,2-Dichloroethane	20.0	19.6		ug/L		98	66 - 128
1,1-Dichloroethene	20.0	20.8		ug/L		104	63 - 134
1,2-Dichloropropane	20.0	20.4		ug/L		102	75 - 133
1,3-Dichloropropane	20.0	20.5		ug/L		102	68 - 139
2,2-Dichloropropane	20.0	20.8		ug/L		104	48 - 142
1,1-Dichloropropene	20.0	20.5		ug/L		102	71 - 124
Ethylbenzene	20.0	20.8		ug/L		104	80 - 121

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

Lab Sample ID: LCS 240-534342/5
Matrix: Water
Analysis Batch: 534342

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	24.5		ug/L		122	37 - 162
2-Hexanone	40.0	38.2		ug/L		96	43 - 167
Isopropylbenzene	20.0	20.6		ug/L		103	74 - 128
Methylene Chloride	20.0	20.2		ug/L		101	71 - 125
4-Methyl-2-pentanone	40.0	38.5		ug/L		96	46 - 158
Methyl tert-butyl ether	20.0	19.0		ug/L		95	65 - 126
m-Xylene & p-Xylene	20.0	20.6		ug/L		103	80 - 120
Naphthalene	20.0	19.3		ug/L		97	53 - 138
n-Butylbenzene	20.0	19.7		ug/L		98	62 - 139
n-Propylbenzene	20.0	20.9		ug/L		104	76 - 127
o-Xylene	20.0	20.8		ug/L		104	80 - 123
p-Isopropyltoluene	20.0	20.3		ug/L		102	71 - 132
sec-Butylbenzene	20.0	20.4		ug/L		102	69 - 135
Styrene	20.0	20.7		ug/L		104	80 - 135
tert-Butyl alcohol	200	219		ug/L		109	33 - 153
tert-Butylbenzene	20.0	20.5		ug/L		102	64 - 134
1,1,1,2-Tetrachloroethane	20.0	22.0		ug/L		110	71 - 124
1,1,2,2-Tetrachloroethane	20.0	21.1		ug/L		106	58 - 157
Tetrachloroethene	20.0	23.0		ug/L		115	76 - 123
Toluene	20.0	20.2		ug/L		101	80 - 123
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	75 - 124
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	57 - 129
1,2,3-Trichlorobenzene	20.0	22.1		ug/L		111	45 - 149
1,2,4-Trichlorobenzene	20.0	20.6		ug/L		103	44 - 147
1,1,1-Trichloroethane	20.0	20.5		ug/L		102	64 - 131
Trichloroethene	20.0	21.6		ug/L		108	70 - 122
Trichlorofluoromethane	20.0	20.1		ug/L		101	30 - 170
1,2,3-Trichloropropane	20.0	21.4		ug/L		107	57 - 150
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.5		ug/L		118	51 - 146
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	77 - 129
Vinyl acetate	20.0	23.5		ug/L		118	44 - 145
Vinyl chloride	20.0	18.8		ug/L		94	60 - 144
Xylenes, Total	40.0	41.4		ug/L		104	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*56 - 136*
Dibromofluoromethane (Surr)	*100*		*73 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*62 - 137*
Toluene-d8 (Surr)	*91*		*78 - 122*

Lab Sample ID: MB 240-534562/10
Matrix: Water
Analysis Batch: 534562

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.4	U	10	5.4	ug/L			07/13/22 15:49	1
Benzene	0.42	U	1.0	0.42	ug/L			07/13/22 15:49	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			07/13/22 15:49	1

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

Lab Sample ID: MB 240-534562/10
Matrix: Water
Analysis Batch: 534562

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	0.54	U	1.0	0.54	ug/L			07/13/22 15:49	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			07/13/22 15:49	1
Bromoform	0.76	U	1.0	0.76	ug/L			07/13/22 15:49	1
Bromomethane	0.42	U	1.0	0.42	ug/L			07/13/22 15:49	1
2-Butanone	1.2	U	10	1.2	ug/L			07/13/22 15:49	1
Carbon disulfide	0.59	U	1.0	0.59	ug/L			07/13/22 15:49	1
Carbon tetrachloride	0.26	U	1.0	0.26	ug/L			07/13/22 15:49	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			07/13/22 15:49	1
Chloroethane	0.83	U	1.0	0.83	ug/L			07/13/22 15:49	1
2-Chloroethyl vinyl ether	1.5	U	10	1.5	ug/L			07/13/22 15:49	1
Chloroform	0.47	U	1.0	0.47	ug/L			07/13/22 15:49	1
Chloromethane	0.63	U	1.0	0.63	ug/L			07/13/22 15:49	1
2-Chlorotoluene	0.57	U	1.0	0.57	ug/L			07/13/22 15:49	1
4-Chlorotoluene	0.43	U	1.0	0.43	ug/L			07/13/22 15:49	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			07/13/22 15:49	1
cis-1,3-Dichloropropene	0.61	U	1.0	0.61	ug/L			07/13/22 15:49	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			07/13/22 15:49	1
1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91	ug/L			07/13/22 15:49	1
1,2-Dibromoethane	0.41	U	1.0	0.41	ug/L			07/13/22 15:49	1
Dibromomethane	0.40	U	1.0	0.40	ug/L			07/13/22 15:49	1
1,2-Dichlorobenzene	0.48	U	1.0	0.48	ug/L			07/13/22 15:49	1
1,3-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			07/13/22 15:49	1
1,4-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			07/13/22 15:49	1
Dichlorodifluoromethane	0.35	U	1.0	0.35	ug/L			07/13/22 15:49	1
1,1-Dichloroethane	0.47	U	1.0	0.47	ug/L			07/13/22 15:49	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			07/13/22 15:49	1
1,1-Dichloroethene	0.49	U	1.0	0.49	ug/L			07/13/22 15:49	1
1,2-Dichloropropane	0.47	U	1.0	0.47	ug/L			07/13/22 15:49	1
1,3-Dichloropropane	0.21	U	1.0	0.21	ug/L			07/13/22 15:49	1
2,2-Dichloropropane	0.78	U	1.0	0.78	ug/L			07/13/22 15:49	1
1,1-Dichloropropene	0.36	U	1.0	0.36	ug/L			07/13/22 15:49	1
Diisopropyl ether	0.17	U	10	0.17	ug/L			07/13/22 15:49	1
Ethylbenzene	0.42	U	1.0	0.42	ug/L			07/13/22 15:49	1
Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40	ug/L			07/13/22 15:49	1
Hexachlorobutadiene	1.19		1.0	0.83	ug/L			07/13/22 15:49	1
2-Hexanone	1.1	U	10	1.1	ug/L			07/13/22 15:49	1
Isopropylbenzene	0.49	U	1.0	0.49	ug/L			07/13/22 15:49	1
Methylene Chloride	2.6	U	5.0	2.6	ug/L			07/13/22 15:49	1
4-Methyl-2-pentanone	0.99	U	10	0.99	ug/L			07/13/22 15:49	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			07/13/22 15:49	1
m-Xylene & p-Xylene	0.42	U	2.0	0.42	ug/L			07/13/22 15:49	1
Naphthalene	0.80	U	1.0	0.80	ug/L			07/13/22 15:49	1
n-Butylbenzene	0.60	U	1.0	0.60	ug/L			07/13/22 15:49	1
n-Propylbenzene	0.57	U	1.0	0.57	ug/L			07/13/22 15:49	1
o-Xylene	0.42	U	1.0	0.42	ug/L			07/13/22 15:49	1
p-Isopropyltoluene	0.56	U	1.0	0.56	ug/L			07/13/22 15:49	1
sec-Butylbenzene	0.53	U	1.0	0.53	ug/L			07/13/22 15:49	1
Styrene	0.45	U	1.0	0.45	ug/L			07/13/22 15:49	1
Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43	ug/L			07/13/22 15:49	1

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

Lab Sample ID: MB 240-534562/10
Matrix: Water
Analysis Batch: 534562

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol	7.2	U	40	7.2	ug/L			07/13/22 15:49	1
tert-Butylbenzene	0.48	U	1.0	0.48	ug/L			07/13/22 15:49	1
1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43	ug/L			07/13/22 15:49	1
1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60	ug/L			07/13/22 15:49	1
Tetrachloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 15:49	1
Toluene	0.44	U	1.0	0.44	ug/L			07/13/22 15:49	1
trans-1,2-Dichloroethene	0.51	U	1.0	0.51	ug/L			07/13/22 15:49	1
trans-1,3-Dichloropropene	0.67	U	1.0	0.67	ug/L			07/13/22 15:49	1
1,2,3-Trichlorobenzene	0.54	U	1.0	0.54	ug/L			07/13/22 15:49	1
1,2,4-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			07/13/22 15:49	1
1,1,1-Trichloroethane	0.48	U	1.0	0.48	ug/L			07/13/22 15:49	1
Trichloroethene	0.44	U	1.0	0.44	ug/L			07/13/22 15:49	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/13/22 15:49	1
1,2,3-Trichloropropane	0.52	U	1.0	0.52	ug/L			07/13/22 15:49	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41	ug/L			07/13/22 15:49	1
1,2,3-Trimethylbenzene	0.31	U	5.0	0.31	ug/L			07/13/22 15:49	1
1,2,4-Trimethylbenzene	0.52	U	1.0	0.52	ug/L			07/13/22 15:49	1
Vinyl acetate	0.61	U	2.0	0.61	ug/L			07/13/22 15:49	1
Vinyl chloride	0.45	U	1.0	0.45	ug/L			07/13/22 15:49	1
Xylenes, Total	0.42	U	2.0	0.42	ug/L			07/13/22 15:49	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*07/13/22 15:49*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*56 - 136*		*07/13/22 15:49*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 120*		*07/13/22 15:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*07/13/22 15:49*	*1*
Toluene-d8 (Surr)	*94*		*78 - 122*		*07/13/22 15:49*	*1*

Lab Sample ID: LCS 240-534562/8
Matrix: Water
Analysis Batch: 534562

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	44.5		ug/L		111	50 - 149
Benzene	20.0	20.7		ug/L		104	77 - 123
Bromobenzene	20.0	21.3		ug/L		107	80 - 122
Bromochloromethane	20.0	21.2		ug/L		106	71 - 121
Bromodichloromethane	20.0	20.9		ug/L		105	69 - 126
Bromoform	20.0	23.3		ug/L		117	57 - 129
Bromomethane	20.0	18.6		ug/L		93	36 - 142
2-Butanone	40.0	41.3		ug/L		103	54 - 156
Carbon disulfide	20.0	21.9		ug/L		109	43 - 140
Carbon tetrachloride	20.0	21.5		ug/L		108	55 - 137
Chlorobenzene	20.0	20.9		ug/L		104	80 - 121
Chloroethane	20.0	18.6		ug/L		93	38 - 152
2-Chloroethyl vinyl ether	20.0	18.0		ug/L		90	40 - 157

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

Lab Sample ID: LCS 240-534562/8
Matrix: Water
Analysis Batch: 534562

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	20.0	20.5		ug/L		103	74 - 122
Chloromethane	20.0	18.6		ug/L		93	47 - 143
2-Chlorotoluene	20.0	20.6		ug/L		103	79 - 124
4-Chlorotoluene	20.0	19.4		ug/L		97	80 - 125
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	77 - 123
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	64 - 130
Dibromochloromethane	20.0	22.3		ug/L		111	70 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	53 - 135
1,2-Dibromoethane	20.0	20.7		ug/L		103	71 - 134
Dibromomethane	20.0	21.2		ug/L		106	67 - 131
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	78 - 120
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 120
1,4-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 120
Dichlorodifluoromethane	20.0	22.9		ug/L		114	34 - 153
1,1-Dichloroethane	20.0	19.5		ug/L		98	72 - 127
1,2-Dichloroethane	20.0	19.3		ug/L		96	66 - 128
1,1-Dichloroethene	20.0	21.4		ug/L		107	63 - 134
1,2-Dichloropropane	20.0	20.5		ug/L		103	75 - 133
1,3-Dichloropropane	20.0	20.2		ug/L		101	68 - 139
2,2-Dichloropropane	20.0	20.4		ug/L		102	48 - 142
1,1-Dichloropropene	20.0	20.0		ug/L		100	71 - 124
Ethylbenzene	20.0	20.6		ug/L		103	80 - 121
Hexachlorobutadiene	20.0	25.6		ug/L		128	37 - 162
2-Hexanone	40.0	36.7		ug/L		92	43 - 167
Isopropylbenzene	20.0	20.6		ug/L		103	74 - 128
Methylene Chloride	20.0	20.1		ug/L		101	71 - 125
4-Methyl-2-pentanone	40.0	37.0		ug/L		92	46 - 158
Methyl tert-butyl ether	20.0	18.5		ug/L		93	65 - 126
m-Xylene & p-Xylene	20.0	20.5		ug/L		103	80 - 120
Naphthalene	20.0	18.8		ug/L		94	53 - 138
n-Butylbenzene	20.0	19.2		ug/L		96	62 - 139
n-Propylbenzene	20.0	20.1		ug/L		100	76 - 127
o-Xylene	20.0	21.0		ug/L		105	80 - 123
p-Isopropyltoluene	20.0	20.2		ug/L		101	71 - 132
sec-Butylbenzene	20.0	19.9		ug/L		100	69 - 135
Styrene	20.0	20.4		ug/L		102	80 - 135
tert-Butyl alcohol	200	218		ug/L		109	33 - 153
tert-Butylbenzene	20.0	20.1		ug/L		100	64 - 134
1,1,1,2-Tetrachloroethane	20.0	22.0		ug/L		110	71 - 124
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		101	58 - 157
Tetrachloroethene	20.0	23.9		ug/L		120	76 - 123
Toluene	20.0	19.9		ug/L		100	80 - 123
trans-1,2-Dichloroethene	20.0	19.7		ug/L		99	75 - 124
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	57 - 129
1,2,3-Trichlorobenzene	20.0	22.1		ug/L		111	45 - 149
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		104	44 - 147
1,1,1-Trichloroethane	20.0	20.6		ug/L		103	64 - 131
Trichloroethene	20.0	21.4		ug/L		107	70 - 122
Trichlorofluoromethane	20.0	21.2		ug/L		106	30 - 170

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

Lab Sample ID: LCS 240-534562/8
Matrix: Water
Analysis Batch: 534562

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			20.0	21.0		ug/L		105	57 - 150		
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	24.8		ug/L		124	51 - 146		
1,2,4-Trimethylbenzene			20.0	19.9		ug/L		99	77 - 129		
Vinyl acetate			20.0	23.3		ug/L		116	44 - 145		
Vinyl chloride			20.0	19.7		ug/L		98	60 - 144		
Xylenes, Total			40.0	41.5		ug/L		104	80 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*56 - 136*
Dibromofluoromethane (Surr)	*102*		*73 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*
Toluene-d8 (Surr)	*92*		*78 - 122*

GC/MS VOA

Analysis Batch: 534172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169444-1	MSA-SW37A-070622	Total/NA	Water	8260C	
240-169444-2	MSA-SW37B-070622	Total/NA	Water	8260C	
240-169444-3	MSA-SW37C-070622	Total/NA	Water	8260C	
MB 240-534172/8	Method Blank	Total/NA	Water	8260C	
LCS 240-534172/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 534342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169444-4	MSA-SW37D-070622	Total/NA	Water	8260C	
240-169444-5	MSA-SW38A-070622	Total/NA	Water	8260C	
240-169444-6	MSA-SW38B-070622	Total/NA	Water	8260C	
240-169444-7	MSA-SW38C-070622	Total/NA	Water	8260C	
240-169444-8	MSA-SW38D-070622	Total/NA	Water	8260C	
240-169444-9	MSA-SW40A-070622	Total/NA	Water	8260C	
240-169444-10	MSA-SW40B-070622	Total/NA	Water	8260C	
240-169444-11	MSA-SW40C-070622	Total/NA	Water	8260C	
240-169444-12	MSA-SW40D-070622	Total/NA	Water	8260C	
240-169444-13	MSA-SW41A-070622	Total/NA	Water	8260C	
240-169444-14	MSA-SW41B-070622	Total/NA	Water	8260C	
240-169444-15	MSA-SW41C-070622	Total/NA	Water	8260C	
240-169444-16	MSA-SW41D-070622	Total/NA	Water	8260C	
240-169444-17	MSA-SW42A-070622	Total/NA	Water	8260C	
240-169444-18	MSA-SW42B-070622	Total/NA	Water	8260C	
240-169444-19	MSA-SW42C-070622	Total/NA	Water	8260C	
240-169444-20	MSA-SW42D-070622	Total/NA	Water	8260C	
240-169444-21	MSA-SW43A-070622	Total/NA	Water	8260C	
240-169444-22	MSA-SW43B-070622	Total/NA	Water	8260C	
240-169444-23	MSA-SW43C-070622	Total/NA	Water	8260C	
MB 240-534342/8	Method Blank	Total/NA	Water	8260C	
LCS 240-534342/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 534562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169444-24	MSA-SW43D-070622	Total/NA	Water	8260C	
240-169444-25	TB-070622	Total/NA	Water	8260C	
240-169444-26	MSA-SW46A-070622	Total/NA	Water	8260C	
240-169444-27	MSA-SW47A-070622	Total/NA	Water	8260C	
240-169444-28	MSA-SW48A-070622	Total/NA	Water	8260C	
240-169444-29	MSA-SW49A-070622	Total/NA	Water	8260C	
240-169444-30	MSA-SWEQB-070622	Total/NA	Water	8260C	
MB 240-534562/10	Method Blank	Total/NA	Water	8260C	
LCS 240-534562/8	Lab Control Sample	Total/NA	Water	8260C	

Client Sample ID: MSA-SW37A-070622
Lab Sample ID: 240-169444-1
Date Collected: 07/06/22 09:32
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534172	07/11/22 18:14	TJL1	TAL CAN

Client Sample ID: MSA-SW37B-070622
Lab Sample ID: 240-169444-2
Date Collected: 07/06/22 09:35
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534172	07/11/22 18:38	TJL1	TAL CAN

Client Sample ID: MSA-SW37C-070622
Lab Sample ID: 240-169444-3
Date Collected: 07/06/22 09:38
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534172	07/11/22 19:01	TJL1	TAL CAN

Client Sample ID: MSA-SW37D-070622
Lab Sample ID: 240-169444-4
Date Collected: 07/06/22 09:41
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 14:04	TJL1	TAL CAN

Client Sample ID: MSA-SW38A-070622
Lab Sample ID: 240-169444-5
Date Collected: 07/06/22 08:41
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 14:28	TJL1	TAL CAN

Client Sample ID: MSA-SW38B-070622
Lab Sample ID: 240-169444-6
Date Collected: 07/06/22 08:44
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 14:51	TJL1	TAL CAN

Client Sample ID: MSA-SW38C-070622
Lab Sample ID: 240-169444-7
Date Collected: 07/06/22 08:46
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 15:14	TJL1	TAL CAN

Client Sample ID: MSA-SW38D-070622
Lab Sample ID: 240-169444-8
Date Collected: 07/06/22 08:50
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 15:38	TJL1	TAL CAN

Client Sample ID: MSA-SW40A-070622
Lab Sample ID: 240-169444-9
Date Collected: 07/06/22 09:00
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 16:01	TJL1	TAL CAN

Client Sample ID: MSA-SW40B-070622
Lab Sample ID: 240-169444-10
Date Collected: 07/06/22 09:03
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 16:24	TJL1	TAL CAN

Client Sample ID: MSA-SW40C-070622
Lab Sample ID: 240-169444-11
Date Collected: 07/06/22 09:05
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 16:47	TJL1	TAL CAN

Client Sample ID: MSA-SW40D-070622
Lab Sample ID: 240-169444-12
Date Collected: 07/06/22 09:08
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 17:11	TJL1	TAL CAN

Client Sample ID: MSA-SW41A-070622
Lab Sample ID: 240-169444-13
Date Collected: 07/06/22 08:22
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 17:34	TJL1	TAL CAN

Client Sample ID: MSA-SW41B-070622
Lab Sample ID: 240-169444-14
Date Collected: 07/06/22 08:25
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 17:57	TJL1	TAL CAN

Client Sample ID: MSA-SW41C-070622
Lab Sample ID: 240-169444-15
Date Collected: 07/06/22 08:28
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 18:20	TJL1	TAL CAN

Client Sample ID: MSA-SW41D-070622
Lab Sample ID: 240-169444-16
Date Collected: 07/06/22 08:32
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 18:43	TJL1	TAL CAN

Client Sample ID: MSA-SW42A-070622
Lab Sample ID: 240-169444-17
Date Collected: 07/06/22 09:16
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 19:07	TJL1	TAL CAN

Client Sample ID: MSA-SW42B-070622
Lab Sample ID: 240-169444-18
Date Collected: 07/06/22 09:19
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 19:30	TJL1	TAL CAN

Client Sample ID: MSA-SW42C-070622
Lab Sample ID: 240-169444-19
Date Collected: 07/06/22 09:22
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 19:53	TJL1	TAL CAN

Client Sample ID: MSA-SW42D-070622
Lab Sample ID: 240-169444-20
Date Collected: 07/06/22 09:26
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 20:16	TJL1	TAL CAN

Client Sample ID: MSA-SW43A-070622
Lab Sample ID: 240-169444-21
Date Collected: 07/06/22 08:00
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 20:39	TJL1	TAL CAN

Client Sample ID: MSA-SW43B-070622
Lab Sample ID: 240-169444-22
Date Collected: 07/06/22 08:05
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 21:02	TJL1	TAL CAN

Client Sample ID: MSA-SW43C-070622
Lab Sample ID: 240-169444-23
Date Collected: 07/06/22 08:08
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534342	07/12/22 21:25	TJL1	TAL CAN

Client Sample ID: MSA-SW43D-070622
Lab Sample ID: 240-169444-24
Date Collected: 07/06/22 08:11
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534562	07/13/22 16:12	TJL1	TAL CAN

Client Sample ID: TB-070622
Lab Sample ID: 240-169444-25
Date Collected: 07/06/22 00:00
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534562	07/13/22 16:35	TJL1	TAL CAN

Client Sample ID: MSA-SW46A-070622
Lab Sample ID: 240-169444-26
Date Collected: 07/06/22 09:12
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534562	07/13/22 16:58	TJL1	TAL CAN

Client Sample ID: MSA-SW47A-070622
Lab Sample ID: 240-169444-27
Date Collected: 07/06/22 08:54
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534562	07/13/22 17:22	TJL1	TAL CAN

Client Sample ID: MSA-SW48A-070622
Lab Sample ID: 240-169444-28
Date Collected: 07/06/22 08:36
Matrix: Water
Date Received: 07/07/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534562	07/13/22 17:45	TJL1	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MSA SW 2022

Job ID: 240-169444-1
SDG: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622
Date Collected: 07/06/22 08:16
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534562	07/13/22 18:08	TJL1	TAL CAN

Client Sample ID: MSA-SWEQB-070622
Date Collected: 07/06/22 00:00
Date Received: 07/07/22 09:30

Lab Sample ID: 240-169444-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534562	07/13/22 18:31	TJL1	TAL CAN

Laboratory References:

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MSA SW 2022

Job ID: 240-169444-1
SDG: MSA Frog Mortar Creek

Laboratory: Eurofins 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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MSA SW 2022

Job ID: 240-169444-1
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 Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MSA SW 2022

Job ID: 240-169444-1
SDG: MSA Frog Mortar Creek

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-169444-1	MSA-SW37A-070622	Water	07/06/22 09:32	07/07/22 09:30
240-169444-2	MSA-SW37B-070622	Water	07/06/22 09:35	07/07/22 09:30
240-169444-3	MSA-SW37C-070622	Water	07/06/22 09:38	07/07/22 09:30
240-169444-4	MSA-SW37D-070622	Water	07/06/22 09:41	07/07/22 09:30
240-169444-5	MSA-SW38A-070622	Water	07/06/22 08:41	07/07/22 09:30
240-169444-6	MSA-SW38B-070622	Water	07/06/22 08:44	07/07/22 09:30
240-169444-7	MSA-SW38C-070622	Water	07/06/22 08:46	07/07/22 09:30
240-169444-8	MSA-SW38D-070622	Water	07/06/22 08:50	07/07/22 09:30
240-169444-9	MSA-SW40A-070622	Water	07/06/22 09:00	07/07/22 09:30
240-169444-10	MSA-SW40B-070622	Water	07/06/22 09:03	07/07/22 09:30
240-169444-11	MSA-SW40C-070622	Water	07/06/22 09:05	07/07/22 09:30
240-169444-12	MSA-SW40D-070622	Water	07/06/22 09:08	07/07/22 09:30
240-169444-13	MSA-SW41A-070622	Water	07/06/22 08:22	07/07/22 09:30
240-169444-14	MSA-SW41B-070622	Water	07/06/22 08:25	07/07/22 09:30
240-169444-15	MSA-SW41C-070622	Water	07/06/22 08:28	07/07/22 09:30
240-169444-16	MSA-SW41D-070622	Water	07/06/22 08:32	07/07/22 09:30
240-169444-17	MSA-SW42A-070622	Water	07/06/22 09:16	07/07/22 09:30
240-169444-18	MSA-SW42B-070622	Water	07/06/22 09:19	07/07/22 09:30
240-169444-19	MSA-SW42C-070622	Water	07/06/22 09:22	07/07/22 09:30
240-169444-20	MSA-SW42D-070622	Water	07/06/22 09:26	07/07/22 09:30
240-169444-21	MSA-SW43A-070622	Water	07/06/22 08:00	07/07/22 09:30
240-169444-22	MSA-SW43B-070622	Water	07/06/22 08:05	07/07/22 09:30
240-169444-23	MSA-SW43C-070622	Water	07/06/22 08:08	07/07/22 09:30
240-169444-24	MSA-SW43D-070622	Water	07/06/22 08:11	07/07/22 09:30
240-169444-25	TB-070622	Water	07/06/22 00:00	07/07/22 09:30
240-169444-26	MSA-SW46A-070622	Water	07/06/22 09:12	07/07/22 09:30
240-169444-27	MSA-SW47A-070622	Water	07/06/22 08:54	07/07/22 09:30
240-169444-28	MSA-SW48A-070622	Water	07/06/22 08:36	07/07/22 09:30
240-169444-29	MSA-SW49A-070622	Water	07/06/22 08:16	07/07/22 09:30
240-169444-30	MSA-SWEQB-070622	Water	07/06/22 00:00	07/07/22 09:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Analysis Batch Number: 531220

Lab Sample ID: STD8260 240-531220/9 IC Client Sample ID:

Date Analyzed: 06/17/22 15:29 Lab File ID: UXC2434.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane-d4 (Surr)		Invalid Compound ID	laveyt	06/20/22 10:23
2,2-Dichloropropane		Invalid Compound ID	laveyt	06/20/22 10:28
2-Butanone		Invalid Compound ID	laveyt	06/20/22 10:28
4-Bromofluorobenzene (Surr)		Invalid Compound ID	laveyt	06/20/22 10:24
Acetone		Invalid Compound ID	laveyt	06/20/22 10:25
Bromomethane		Invalid Compound ID	laveyt	06/20/22 10:25
Dibromofluoromethane (Surr)		Invalid Compound ID	laveyt	06/20/22 10:23
Methylene Chloride		Invalid Compound ID	laveyt	06/20/22 10:26
Toluene-d8 (Surr)		Invalid Compound ID	laveyt	06/20/22 10:23
Trichlorofluoromethane		Invalid Compound ID	laveyt	06/20/22 10:25

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Analysis Batch Number: 534342

Lab Sample ID: 240-169444-5 Client Sample ID: MSA-SW38A-070622

Date Analyzed: 07/12/22 14:28 Lab File ID: UXC2967.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane		Invalid Compound ID	MAW1	07/13/22 09:38

Lab Sample ID: 240-169444-7 Client Sample ID: MSA-SW38C-070622

Date Analyzed: 07/12/22 15:14 Lab File ID: UXC2969.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.28	Invalid Compound ID	MAW1	07/13/22 09:38

Lab Sample ID: 240-169444-8 Client Sample ID: MSA-SW38D-070622

Date Analyzed: 07/12/22 15:38 Lab File ID: UXC2970.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.28	Invalid Compound ID	MAW1	07/13/22 08:26

Lab Sample ID: 240-169444-21 Client Sample ID: MSA-SW43A-070622

Date Analyzed: 07/12/22 20:39 Lab File ID: UXC2983.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.28	Invalid Compound ID	MAW1	07/13/22 08:35

Lab Sample ID: 240-169444-22 Client Sample ID: MSA-SW43B-070622

Date Analyzed: 07/12/22 21:02 Lab File ID: UXC2984.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.27	Invalid Compound ID	MAW1	07/13/22 08:36

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Analysis Batch Number: 534342

Lab Sample ID: 240-169444-23 Client Sample ID: MSA-SW43C-070622

Date Analyzed: 07/12/22 21:25 Lab File ID: UXC2985.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane		Invalid Compound ID	MAW1	07/13/22 09:47

Lab Name: Eurofins Canton Job No.: 240-169444-1

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_00011	09/18/22	03/18/22	MEOH, Lot 273166	50 mL	vm30241_00008	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00008	10/31/24		restek, Lot A0154377		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_stk_00091	06/20/22	12/20/21	MEOH, Lot 0000273166	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_00092	12/20/22	06/21/22	MEOH, Lot 0000273166	200 mL	VM567650_00036	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_00036	01/31/25		Restek, Lot A0156891		(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_00442	06/21/22	06/14/22	MEOH, Lot na	5 mL	VMACROLSTD_00107	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00107	06/28/22	05/28/22	MEOH, Lot 0000273166	20 mL	VM568720_00042	0.25 mL	Acrolein	250 ug/mL
..VM568720_00042	02/28/23		restek, Lot A0175809		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00445	07/14/22	07/07/22	MEOH, Lot na	5 mL	VMACROLSTD_00108	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00108	07/29/22	06/29/22	MEOH, Lot 0000273166	20 mL	VM568720_00042	0.25 mL	Acrolein	250 ug/mL
..VM568720_00042	02/28/23		restek, Lot A0175809		(Purchased Reagent)		Acrolein	20000 ug/mL
vmbfb_00030							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00003	2.5 mL	BFB	50 ug/mL
.vm30026_00003	08/31/23		restek, Lot A0141187		(Purchased Reagent)		BFB	2000 ug/mL
VMFASA9W_00362	06/23/22	06/16/22	MEOH, Lot NA	5 mL	VMFASA9_00029	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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							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_00029	08/01/22	02/01/22	MEOH, Lot 0000273166	100 mL	VM569727S_00005	2 mL	Cyclohexanone	500 ug/mL
					vm570806S_00006	4 mL	Pentachloroethane	100 ug/mL
					vm570807S_00006	4 mL	2-Methylnaphthalene	100 ug/mL
					VM570808S_00011	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809S_00010	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_00005	09/30/22		RESTEK, Lot A0152945		(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_00011	10/31/22		Restek, Lot A0171439		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809S_00010	10/31/22		Restek, Lot A0171207		(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_00422	06/23/22	06/16/22	MEOH, Lot NA	5 mL	VMFASA_00076	5 mL	Acrolein	250 ug/mL
.VMFASA_00076	08/31/22	05/14/22	MEOH, Lot 0000273166	100 mL	VM568720S_00040	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00040	08/31/22		restek, Lot A0169469		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00458	06/21/22	06/14/22	MEOH, Lot NA	5 mL	VMFASG_00119	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_00119	06/28/22	05/28/22	MEOH, Lot 0000273166	50 mL	vm569722S_00010	1 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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 chloride	50 ug/mL
..vm569722S_00010	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_00461	07/12/22	07/05/22	MEOH, Lot NA	5 mL	VMFASG_00120	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_00120	07/29/22	06/29/22	MEOH, Lot 0000273166	50 mL	vm569722S_00010	1 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_00010	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_00463	07/20/22	07/13/22	MEOH, Lot NA	5 mL	VMFASG_00120	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_00120	07/29/22	06/29/22	MEOH, Lot 0000273166	50 mL	vm569722S_00010	1 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_00010	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_00448	06/24/22	06/17/22	MEOH, Lot n/a	5 mL	VMRFASP_00081	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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-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
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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-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_00081	09/30/22	04/29/22	MEOH, Lot 0000273166	100 mL	VM569721S_00007	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_00031	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00008	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

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
..VM569721S_00007	01/31/24		Restek, Lot A0167967		(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_00031	09/30/22		Restek, Lot A0169715		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00008	06/30/23		Restek, Lot A0167172		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00451	07/18/22	07/11/22	MEOH, Lot n/a	5 mL	VMRFASP_00081	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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							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
.VMRFASP_00081	09/30/22	04/29/22	MEOH, Lot 0000273166	100 mL	VM569721S_00007	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_00031	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00008	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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							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_00007	01/31/24		Restek, Lot A0167967		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
..VM569723S_00009	09/30/22		Restek, Lot A0153415		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00031	09/30/22		Restek, Lot A0169715		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00008	06/30/23		Restek, Lot A0167172		(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
							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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
vmra9w_00439	06/21/22	06/14/22	MEOH, Lot NA	5 mL	VMRA9_00040	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	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
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 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_00040	10/01/22	04/01/22	MEOH, Lot 0000273166	50 mL	VM569727_00006	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00005	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00006	2 mL	2-Methylnaphthalene	100 ug/mL
					VM570808_00008	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00010	1 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00005	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727_00006	08/31/24		RESTEK, Lot A0175475		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00006	09/30/24		Restek, Lot A0153266		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808_00008	04/30/23		Restek, Lot A0177095		(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
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00010	12/31/22		Restek, Lot A0173205		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..VM571993_00005	06/30/23		restek, Lot A0172903		(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_00442	07/15/22	07/08/22	MEOH, Lot NA	5 mL	VMRA9_00040	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
.VMRA9_00040	10/01/22	04/01/22	MEOH, Lot 0000273166	50 mL	VM569727_00006	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00005	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00006	2 mL	2-Methylnaphthalene	100 ug/mL
					VM570808_00008	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00010	1 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993_00005	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727_00006	08/31/24		RESTEK, Lot A0175475		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00006	09/30/24		Restek, Lot A0153266		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808_00008	04/30/23		Restek, Lot A0177095		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00010	12/31/22		Restek, Lot A0173205		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993_00005	06/30/23		restek, Lot A0172903		(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_00430	06/18/22	06/11/22	MEOH, Lot 0000273166	10 mL	vm569722_00021	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_00021	04/30/24		Restek, Lot A0171131		(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_00433	07/13/22	07/06/22	MEOH, Lot 0000273166	10 mL	vm569722_00021	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_00021	04/30/24		Restek, Lot A0171131		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
vmrprimw_00486	06/23/22	06/16/22	MEOH, Lot NA	5 mL	VMRPRIM_00057	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							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
							Trichloroethene	50 ug/mL
.VMRPRIM_00057	07/31/22	05/23/22	MEOH, Lot 0000273166	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_00010	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00026	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_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
							1,1,2-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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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-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
							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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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-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
..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_00010	09/30/24		restek, Lot A0176827		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00026	07/31/22		Restek, Lot A0168154		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00005	10/31/22		Restek, Lot A0159680		(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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
							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
							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_00486	06/23/22	06/16/22	MEOH, Lot NA	5 mL	VMRPRIM_00057	5 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00057	07/31/22	05/23/22	MEOH, Lot 0000273166	50 mL	VM571992_00005	1 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM571992_00005	10/31/22	Restek, Lot A0159680			(Purchased Reagent)		Total BTEX	12500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
VMRPRIMW_00489	07/17/22	07/10/22	MEOH, Lot NA	5 mL	VMRPRIM_00057	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
							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 Canton Job No.: 240-169444-1

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
.VMRPRIM_00057	07/31/22	05/23/22	MEOH, Lot 0000273166	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_00010	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00026	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_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

Lab Name: Eurofins Canton Job No.: 240-169444-1

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-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
..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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

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		
..VM569723_00010	09/30/24		restek, Lot A0176827		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00026	07/31/22		Restek, Lot A0168154		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00005	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

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-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

Reagent

vm30026_00003

Rec: 11/28/18
VM30026_00063

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

VM567650_00035

Rec: 12/4/19
VM567650_00035

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

VM567650_00036

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0156891

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 : January 31, 2025 **Storage:** 0°C or colder

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane	2,510.9 µg/mL	+/- 14.5986 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012016)		+/- 140.7837 µg/mL	Unstressed
	Purity 99%		+/- 144.0778 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,510.2 µg/mL	+/- 14.5945 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 140.7444 µg/mL	Unstressed
	Purity 99%		+/- 144.0377 µg/mL	Stressed
3	Toluene-d8	2,513.0 µg/mL	+/- 14.6105 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot I-21928)		+/- 140.8986 µg/mL	Unstressed
	Purity 99%		+/- 144.1955 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,514.4 µg/mL	+/- 14.6186 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 140.9771 µg/mL	Unstressed
	Purity 99%		+/- 144.2758 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

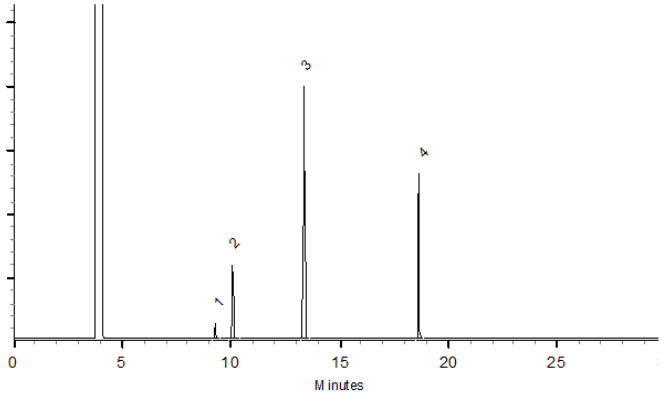
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust - Mix Technician

Date Mixed: 19-Jan-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 21-Jan-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VM568720_00042

Rc'd 1/27/22
VM568720_00042

RESTEK®

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0175809

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 : February 28, 2023 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein			19,891.5 µg/mL	+/-	116.4691	µg/mL	Gravimetric
	CAS #	107-02-8	(Lot RD210729)		+/-	397.3790	µg/mL	Unstressed
	Purity	99%			+/-	891.5094	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720S_00040

Rcd 1/27/22 VM568 7205 _ 00040

RESTEK®

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720.SEC **Lot No.:** A0169469

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 : August 31, 2022 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein		19,753.5	µg/mL	+/- 115.6611	µg/mL	Gravimetric
	CAS # 107-02-8.SEC	(Lot CS-D0310)			+/- 394.6221	µg/mL	Unstressed
	Purity 99%				+/- 885.3245	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569721_00007

Rec: 2-21-20

VM569721-00007

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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_00007

Rcd 11/8/21 VM5697215 09007

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0167987

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 : January 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,567.5 µg/mL	+/- 73.5855 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 758.3030 µg/mL	Unstressed
	Purity 99%		+/- 760.1031 µg/mL	Stressed
2	2-Butanone (MEK)	12,553.0 µg/mL	+/- 73.5006 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 757.4280 µg/mL	Unstressed
	Purity 99%		+/- 759.2261 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,563.5 µg/mL	+/- 73.5621 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 758.0616 µg/mL	Unstressed
	Purity 99%		+/- 759.8611 µg/mL	Stressed
4	2-Hexanone	12,527.8 µg/mL	+/- 73.3532 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.9093 µg/mL	Unstressed
	Purity 98%		+/- 757.7037 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

vm569722_00021

Rc'd 1/27/22 VM 569722_00021

RESTEK®

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0171131

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,500.4 µg/mL	+/- 17.4665 µg/mL +/- 140.5300 µg/mL +/- 143.8028 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.3 µg/mL	+/- 17.4265 µg/mL +/- 140.5200 µg/mL +/- 143.7928 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,501.4 µg/mL	+/- 16.6715 µg/mL +/- 140.4849 µg/mL +/- 143.7611 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot 00019375) **Purity** 99%	2,499.9 µg/mL	+/- 17.9031 µg/mL +/- 140.5578 µg/mL +/- 143.8287 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,500.8 µg/mL	+/- 16.8347 µg/mL +/- 140.4711 µg/mL +/- 143.7461 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,501.1 µg/mL	+/- 17.4608 µg/mL +/- 140.5674 µg/mL +/- 143.8412 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 10172500) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

Reagent

vm569722S_00010

Rec: 1/26-21
VM569722S-00010

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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)

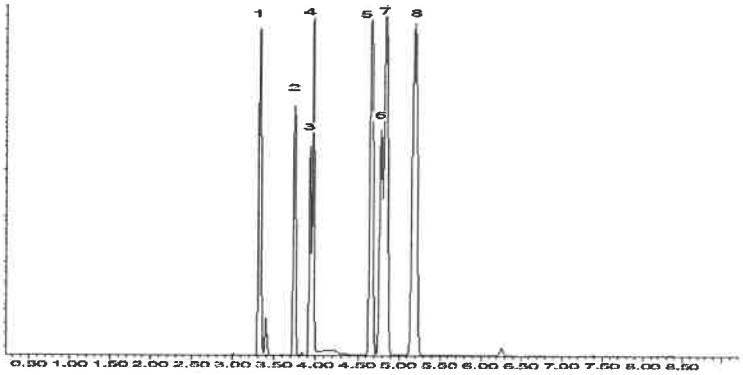
Carrier Gas:
helium-constant pressure 30 psi

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_00010

Rec'd 7/19/22 VM569723 — 00010

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723 **Lot No.:** A0176827

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, 2024 **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-Chloroethyl vinyl ether **CAS #** 110-75-8 (Lot MKCD0033) **Purity** 99%	2,505.0 µg/mL	+/- 14.7007 µg/mL +/- 53.6696 µg/mL +/- 55.2277 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_00009

VM569723S-00009

Rec: 2-21-20

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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_00026

VM569724_00026 Rc'd 10/29/21

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0168154

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, 2022 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	5,038.0 µg/mL	+/- 29.4986 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot RD200601)		+/- 303.9849 µg/mL	Unstressed
	Purity 99%		+/- 304.7065 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_00031

VM569724sec.__0003

Recd 10/29/21 TS

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724.SEC **Lot No.:** A0169715

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, 2022 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,004.5 µg/mL	+/- 29.3024	µg/mL	Gravimetric
	CAS # 108-05-4.SEC (Lot 190320CGKJ)		+/- 301.9636	µg/mL	Unstressed
	Purity 99%		+/- 302.6804	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

VM569727_00006

VM569727_09906

Rec'd 1/27/22

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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. : 569727 **Lot No.:** A0175475

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 : August 31, 2024 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Cyclohexanone		25,017.3	µg/mL	+/- 146.4820	µg/mL	Gravimetric
	CAS # 108-94-1	(Lot 10211916)			+/- 1,509.5061	µg/mL	Unstressed
	Purity 99%				+/- 1,513.0894	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727S_00005

RCC! 9/20/19
VM569727S-00005

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569727.SEC **Lot No.:** A0152945

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 : September 30, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	25,011.0 µg/mL	+/- 146.4449	µg/mL	Gravimetric
	CAS # 108-94-1.SEC (Lot ZEHPG)		+/- 1,509.1239	µg/mL	Unstressed
	Purity 99%		+/- 1,512.7064	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

vm570806_00005

Rec: 6/19/19
VMS70806_00005

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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_00006

Rec'd 9/19/22 VM570807_00006

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570807 **Lot No.:** A0153266

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 : September 30, 2024 **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 STBG8884) **Purity** 96%	2,523.8 µg/mL	+/- 14.8113 µg/mL +/- 141.5235 µg/mL +/- 144.8343 µg/mL	Gravimetric Unstressed Stressed
2	1-Methylnaphthalene **CAS #** 90-12-0 (Lot 523400-9) **Purity** 98%	2,507.3 µg/mL	+/- 14.7144 µg/mL +/- 140.5977 µg/mL +/- 143.8869 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807S_00006

Rcld 10-13-20 VM5708075_ 00006

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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_00008

Rec: 1/26/22
VM570808_00008

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0177095

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, 2023 **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 (Lot SHBH7211) **Purity** 99%	25,197.0 µg/mL	+/- 147.5340 µg/mL +/- 1,246.5636 µg/mL +/- 1,277.5545 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 210413JLM) **Purity** 99%	2,522.5 µg/mL	+/- 14.8034 µg/mL +/- 124.7989 µg/mL +/- 127.9013 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012020) **Purity** 99%	25,122.5 µg/mL	+/- 147.0978 µg/mL +/- 1,242.8779 µg/mL +/- 1,273.7771 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot MKCF8045) **Purity** 99%	2,522.5 µg/mL	+/- 14.8034 µg/mL +/- 124.7989 µg/mL +/- 127.9013 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBM5061) **Purity** 99%	62,707.0 µg/mL	+/- 367.1443 µg/mL +/- 3,102.2823 µg/mL +/- 3,179.4084 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCCB9352) **Purity** 97%	5,025.1 µg/mL	+/- 29.4230 µg/mL +/- 248.6045 µg/mL +/- 254.7851 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot BCBS3368V) **Purity** 98%	2,523.0 µg/mL	+/- 14.8064 µg/mL +/- 124.8241 µg/mL +/- 127.9272 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM570808S_00011

Rcvd 1/27/22 VM5708285 22011

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0171439

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 : 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	2-Propanol (isopropanol) **CAS #** 67-63-0.SEC (Lot TFT5I) **Purity** 99%	25,183.3 µg/mL	+/- 147.4540 µg/mL +/- 1,245.8875 µg/mL +/- 1,276.8616 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 * (Lot 210413JLM) **Purity** 99%	2,522.7 µg/mL	+/- 14.8044 µg/mL +/- 124.8071 µg/mL +/- 127.9098 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 * (Lot 1012014) **Purity** 99%	25,147.7 µg/mL	+/- 147.2451 µg/mL +/- 1,244.1230 µg/mL +/- 1,275.0532 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) **CAS #** 540-84-1.SEC (Lot 8014900) **Purity** 99%	2,518.0 µg/mL	+/- 14.7770 µg/mL +/- 124.5762 µg/mL +/- 127.6731 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3.SEC (Lot 6B6UL) **Purity** 99%	63,095.0 µg/mL	+/- 369.4160 µg/mL +/- 3,121.4777 µg/mL +/- 3,199.0811 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9.SEC (Lot F43IA) **Purity** 99%	5,038.0 µg/mL	+/- 29.4986 µg/mL +/- 249.2435 µg/mL +/- 255.4399 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5.SEC (Lot 8171700) **Purity** 99%	2,525.0 µg/mL	+/- 14.8181 µg/mL +/- 124.9226 µg/mL +/- 128.0281 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM570809_00010

Rec'd 2/1/22 VM 570809_20010

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0173205

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 : December 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	Ethyl acetate **CAS #** 141-78-6 (Lot SHBM3421) **Purity** 99%	5,011.0 µg/mL	+/- 29.3405 µg/mL +/- 302.3558 µg/mL +/- 303.0735 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,505.5 µg/mL	+/- 14.7037 µg/mL +/- 151.1811 µg/mL +/- 151.5400 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKCN3027) **Purity** 99%	5,010.5 µg/mL	+/- 29.3376 µg/mL +/- 302.3256 µg/mL +/- 303.0433 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBM7214) **Purity** 99%	2,507.5 µg/mL	+/- 14.7154 µg/mL +/- 151.3018 µg/mL +/- 151.6610 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570809S_00010

Rcld 11/8/21 VM5708095_00010

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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.:** A0171207

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 : 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	Ethyl acetate **CAS #** 141-78-6.SEC (Lot C386A-GG) **Purity** 99%	5,030.0 µg/mL	+/- 29.4518 µg/mL +/- 303.5022 µg/mL +/- 304.2227 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5.SEC (Lot YIFAM-TG) **Purity** 99%	2,515.0 µg/mL	+/- 14.7594 µg/mL +/- 151.7544 µg/mL +/- 152.1146 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6.SEC (Lot G01X021) **Purity** 99%	5,029.0 µg/mL	+/- 29.4459 µg/mL +/- 303.4419 µg/mL +/- 304.1622 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4.SEC (Lot V2L2G-GT) **Purity** 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL +/- 151.4527 µg/mL +/- 151.8122 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM571992_00005

Rc'd 4/19/21 VM571992_00005

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3122.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3122.02

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 **Lot No.:** A0159680

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 : October 31, 2022 **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 SHBK7710) **Purity** 99%	2,518.8 µg/mL	+/- 14.6442 µg/mL +/- 151.9673 µg/mL +/- 152.3281 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00016133) **Purity** 99%	2,523.8 µg/mL	+/- 14.6733 µg/mL +/- 152.2690 µg/mL +/- 152.6305 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBK2437) **Purity** 99%	2,517.5 µg/mL	+/- 14.6370 µg/mL +/- 151.8919 µg/mL +/- 152.2525 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBL0592) **Purity** 99%	25,122.1 µg/mL	+/- 146.0546 µg/mL +/- 1,515.7284 µg/mL +/- 1,519.3270 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBK5436) **Purity** 99%	5,041.4 µg/mL	+/- 29.3110 µg/mL +/- 304.1685 µg/mL +/- 304.8906 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot D4406-0122JM) **Purity** 99%	2,520.5 µg/mL	+/- 14.6544 µg/mL +/- 152.0729 µg/mL +/- 152.4340 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot 191118KJ) **Purity** 99%	2,521.0 µg/mL	+/- 14.6573 µg/mL +/- 152.1031 µg/mL +/- 152.4642 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571992S_00008

Rec'd 6/10/21 VM571992 00008

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0167172

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, 2023 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Nominal Concentration (weight/volume)	Expanded Uncertainty (95% C.L., k=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 99%	2,501.7 µg/mL	+/- 14.5449 µg/mL +/- 150.9366 µg/mL +/- 151.2950 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,500.8 µg/mL	+/- 14.5401 µg/mL +/- 150.8864 µg/mL +/- 151.2446 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,501.2 µg/mL	+/- 14.5420 µg/mL +/- 150.9065 µg/mL +/- 151.2647 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot HGCHN) **Purity** 99%	25,001.2 µg/mL	+/- 145.3513 µg/mL +/- 1,508.4304 µg/mL +/- 1,512.0117 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,000.2 µg/mL	+/- 29.0714 µg/mL +/- 301.6822 µg/mL +/- 302.3985 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,501.0 µg/mL	+/- 14.5410 µg/mL +/- 150.8964 µg/mL +/- 151.2547 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,501.7 µg/mL	+/- 14.5449 µg/mL +/- 150.9366 µg/mL +/- 151.2950 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571993_00005

rec'd 2/10/22 VH571993_00005

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0172903

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **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 **CAS #** 75-05-8 (Lot SHBH6233) **Purity** 99%	25,165.0 µg/mL	+/- 147.3466 µg/mL +/- 1,244.9805 µg/mL +/- 1,275.9320 µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3 (Lot SHBH1927V) **Purity** 99%	2,519.5 µg/mL	+/- 14.7858 µg/mL +/- 124.6504 µg/mL +/- 127.7492 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3 (Lot MKCM3774) **Purity** 99%	2,510.5 µg/mL	+/- 14.7330 µg/mL +/- 124.2052 µg/mL +/- 127.2929 µg/mL	Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0 (Lot BCCB0845) **Purity** 99%	25,132.5 µg/mL	+/- 147.1563 µg/mL +/- 1,243.3726 µg/mL +/- 1,274.2842 µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4 (Lot STBB1898V) **Purity** 99%	25,074.0 µg/mL	+/- 146.8138 µg/mL +/- 1,240.4785 µg/mL +/- 1,271.3181 µg/mL	Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8 (Lot HMBG7745V) **Purity** 99%	2,509.0 µg/mL	+/- 14.7242 µg/mL +/- 124.1310 µg/mL +/- 127.2168 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571993S_00008

Rec: 3/22/21

VM571993S_00008

RESTEK®

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.SEC **Lot No.:** 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 Canton Job No.: 240-169444-1

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-070622	240-169444-1	108	103	97	88
MSA-SW37B-070622	240-169444-2	105	103	93	86
MSA-SW37C-070622	240-169444-3	105	100	95	86
MSA-SW37D-070622	240-169444-4	103	100	91	83
MSA-SW38A-070622	240-169444-5	107	103	95	86
MSA-SW38B-070622	240-169444-6	108	102	96	88
MSA-SW38C-070622	240-169444-7	107	101	93	85
MSA-SW38D-070622	240-169444-8	105	101	92	83
MSA-SW40A-070622	240-169444-9	108	101	95	83
MSA-SW40B-070622	240-169444-10	103	98	91	82
MSA-SW40C-070622	240-169444-11	110	105	94	85
MSA-SW40D-070622	240-169444-12	104	98	89	82
MSA-SW41A-070622	240-169444-13	110	105	97	89
MSA-SW41B-070622	240-169444-14	105	101	93	83
MSA-SW41C-070622	240-169444-15	106	101	91	82
MSA-SW41D-070622	240-169444-16	110	103	94	84
MSA-SW42A-070622	240-169444-17	112	104	92	84
MSA-SW42B-070622	240-169444-18	110	105	95	83
MSA-SW42C-070622	240-169444-19	111	103	93	84
MSA-SW42D-070622	240-169444-20	111	105	96	88
MSA-SW43A-070622	240-169444-21	112	108	96	87
MSA-SW43B-070622	240-169444-22	107	101	91	82
MSA-SW43C-070622	240-169444-23	112	105	95	86
MSA-SW43D-070622	240-169444-24	102	98	89	82
TB-070622	240-169444-25	110	104	95	88
MSA-SW46A-070622	240-169444-26	107	102	93	84
MSA-SW47A-070622	240-169444-27	104	99	90	81
MSA-SW48A-070622	240-169444-28	112	107	101	92
MSA-SW49A-070622	240-169444-29	104	100	90	80
MSA-SWEQB-070622	240-169444-30	110	103	93	84
	MB 240-534172/8	105	99	91	85
	MB 240-534342/8	104	100	92	86
	MB 240-534562/10	109	101	94	87
	LCS 240-534172/5	102	97	99	98
	LCS 240-534342/5	100	92	91	88

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	73-120
DCA = 1,2-Dichloroethane-d4 (Surr)	62-137
TOL = Toluene-d8 (Surr)	78-122
BFB = 4-Bromofluorobenzene (Surr)	56-136

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-169444-1

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 #
	LCS 240-534562/8	102	94	92	88

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	73-120
DCA = 1,2-Dichloroethane-d4 (Surr)	62-137
TOL = Toluene-d8 (Surr)	78-122
BFB = 4-Bromofluorobenzene (Surr)	56-136

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2947.D

Lab ID: LCS 240-534172/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	42.1	105	50-149	
Benzene	20.0	20.6	103	77-123	
Bromobenzene	20.0	22.1	111	80-122	
Bromochloromethane	20.0	20.9	105	71-121	
Bromodichloromethane	20.0	20.7	103	69-126	
Bromoform	20.0	23.4	117	57-129	
Bromomethane	20.0	17.2	86	36-142	
2-Butanone	40.0	41.2	103	54-156	
Carbon disulfide	20.0	21.6	108	43-140	
Carbon tetrachloride	20.0	20.9	104	55-137	
Chlorobenzene	20.0	21.3	106	80-121	
Chloroethane	20.0	17.7	88	38-152	
2-Chloroethyl vinyl ether	20.0	19.9	100	40-157	
Chloroform	20.0	20.2	101	74-122	
Chloromethane	20.0	17.4	87	47-143	
2-Chlorotoluene	20.0	20.7	104	79-124	
4-Chlorotoluene	20.0	20.1	101	80-125	
cis-1,2-Dichloroethene	20.0	19.8	99	77-123	
cis-1,3-Dichloropropene	20.0	19.7	98	64-130	
Dibromochloromethane	20.0	22.6	113	70-124	
1,2-Dibromo-3-Chloropropane	20.0	19.7	98	53-135	
1,2-Dibromoethane	20.0	20.7	104	71-134	
Dibromomethane	20.0	20.8	104	67-131	
1,2-Dichlorobenzene	20.0	21.9	110	78-120	
1,3-Dichlorobenzene	20.0	21.6	108	80-120	
1,4-Dichlorobenzene	20.0	21.6	108	80-120	
Dichlorodifluoromethane	20.0	20.0	100	34-153	
1,1-Dichloroethane	20.0	19.1	96	72-127	
1,2-Dichloroethane	20.0	19.3	97	66-128	
1,1-Dichloroethene	20.0	21.1	106	63-134	
1,2-Dichloropropane	20.0	20.2	101	75-133	
1,3-Dichloropropane	20.0	20.6	103	68-139	
2,2-Dichloropropane	20.0	20.6	103	48-142	
1,1-Dichloropropene	20.0	19.8	99	71-124	
Ethylbenzene	20.0	20.5	103	80-121	
Hexachlorobutadiene	20.0	23.3	117	37-162	
2-Hexanone	40.0	37.6	94	43-167	
Isopropylbenzene	20.0	20.9	104	74-128	
Methylene Chloride	20.0	20.0	100	71-125	
4-Methyl-2-pentanone	40.0	37.2	93	46-158	
Methyl tert-butyl ether	20.0	18.9	94	65-126	
m-Xylene & p-Xylene	20.0	20.5	103	80-120	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2947.D

Lab ID: LCS 240-534172/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	18.7	94	53-138	
n-Butylbenzene	20.0	19.8	99	62-139	
n-Propylbenzene	20.0	21.3	107	76-127	
o-Xylene	20.0	20.8	104	80-123	
p-Isopropyltoluene	20.0	20.4	102	71-132	
sec-Butylbenzene	20.0	20.2	101	69-135	
Styrene	20.0	20.7	103	80-135	
tert-Butyl alcohol	200	204	102	33-153	
tert-Butylbenzene	20.0	20.4	102	64-134	
1,1,1,2-Tetrachloroethane	20.0	22.2	111	71-124	
1,1,2,2-Tetrachloroethane	20.0	21.0	105	58-157	
Tetrachloroethene	20.0	23.2	116	76-123	
Toluene	20.0	20.3	102	80-123	
trans-1,2-Dichloroethene	20.0	19.7	98	75-124	
trans-1,3-Dichloropropene	20.0	19.7	99	57-129	
1,2,3-Trichlorobenzene	20.0	22.3	111	45-149	
1,2,4-Trichlorobenzene	20.0	21.1	106	44-147	
1,1,1-Trichloroethane	20.0	19.9	99	64-131	
Trichloroethene	20.0	21.0	105	70-122	
Trichlorofluoromethane	20.0	19.6	98	30-170	
1,2,3-Trichloropropane	20.0	21.1	106	57-150	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.9	119	51-146	
1,2,4-Trimethylbenzene	20.0	20.7	104	77-129	
Vinyl acetate	20.0	23.1	116	44-145	
Vinyl chloride	20.0	18.8	94	60-144	
Xylenes, Total	40.0	41.3	103	80-121	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2962.D

Lab ID: LCS 240-534342/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	46.5	116	50-149	
Benzene	20.0	20.8	104	77-123	
Bromobenzene	20.0	21.5	107	80-122	
Bromochloromethane	20.0	20.5	103	71-121	
Bromodichloromethane	20.0	20.6	103	69-126	
Bromoform	20.0	23.2	116	57-129	
Bromomethane	20.0	17.0	85	36-142	
2-Butanone	40.0	43.1	108	54-156	
Carbon disulfide	20.0	22.0	110	43-140	
Carbon tetrachloride	20.0	21.7	108	55-137	
Chlorobenzene	20.0	21.1	106	80-121	
Chloroethane	20.0	17.5	87	38-152	
2-Chloroethyl vinyl ether	20.0	19.0	95	40-157	
Chloroform	20.0	20.4	102	74-122	
Chloromethane	20.0	17.5	87	47-143	
2-Chlorotoluene	20.0	20.4	102	79-124	
4-Chlorotoluene	20.0	19.9	99	80-125	
cis-1,2-Dichloroethene	20.0	20.6	103	77-123	
cis-1,3-Dichloropropene	20.0	19.7	98	64-130	
Dibromochloromethane	20.0	22.2	111	70-124	
1,2-Dibromo-3-Chloropropane	20.0	20.9	105	53-135	
1,2-Dibromoethane	20.0	20.9	104	71-134	
Dibromomethane	20.0	20.9	105	67-131	
1,2-Dichlorobenzene	20.0	22.0	110	78-120	
1,3-Dichlorobenzene	20.0	21.8	109	80-120	
1,4-Dichlorobenzene	20.0	21.1	105	80-120	
Dichlorodifluoromethane	20.0	20.8	104	34-153	
1,1-Dichloroethane	20.0	19.4	97	72-127	
1,2-Dichloroethane	20.0	19.6	98	66-128	
1,1-Dichloroethene	20.0	20.8	104	63-134	
1,2-Dichloropropane	20.0	20.4	102	75-133	
1,3-Dichloropropane	20.0	20.5	102	68-139	
2,2-Dichloropropane	20.0	20.8	104	48-142	
1,1-Dichloropropene	20.0	20.5	102	71-124	
Ethylbenzene	20.0	20.8	104	80-121	
Hexachlorobutadiene	20.0	24.5	122	37-162	
2-Hexanone	40.0	38.2	96	43-167	
Isopropylbenzene	20.0	20.6	103	74-128	
Methylene Chloride	20.0	20.2	101	71-125	
4-Methyl-2-pentanone	40.0	38.5	96	46-158	
Methyl tert-butyl ether	20.0	19.0	95	65-126	
m-Xylene & p-Xylene	20.0	20.6	103	80-120	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2962.D

Lab ID: LCS 240-534342/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	19.3	97	53-138	
n-Butylbenzene	20.0	19.7	98	62-139	
n-Propylbenzene	20.0	20.9	104	76-127	
o-Xylene	20.0	20.8	104	80-123	
p-Isopropyltoluene	20.0	20.3	102	71-132	
sec-Butylbenzene	20.0	20.4	102	69-135	
Styrene	20.0	20.7	104	80-135	
tert-Butyl alcohol	200	219	109	33-153	
tert-Butylbenzene	20.0	20.5	102	64-134	
1,1,1,2-Tetrachloroethane	20.0	22.0	110	71-124	
1,1,2,2-Tetrachloroethane	20.0	21.1	106	58-157	
Tetrachloroethene	20.0	23.0	115	76-123	
Toluene	20.0	20.2	101	80-123	
trans-1,2-Dichloroethene	20.0	19.9	99	75-124	
trans-1,3-Dichloropropene	20.0	19.8	99	57-129	
1,2,3-Trichlorobenzene	20.0	22.1	111	45-149	
1,2,4-Trichlorobenzene	20.0	20.6	103	44-147	
1,1,1-Trichloroethane	20.0	20.5	102	64-131	
Trichloroethene	20.0	21.6	108	70-122	
Trichlorofluoromethane	20.0	20.1	101	30-170	
1,2,3-Trichloropropane	20.0	21.4	107	57-150	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.5	118	51-146	
1,2,4-Trimethylbenzene	20.0	20.5	103	77-129	
Vinyl acetate	20.0	23.5	118	44-145	
Vinyl chloride	20.0	18.8	94	60-144	
Xylenes, Total	40.0	41.4	104	80-121	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2991.D

Lab ID: LCS 240-534562/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	44.5	111	50-149	
Benzene	20.0	20.7	104	77-123	
Bromobenzene	20.0	21.3	107	80-122	
Bromochloromethane	20.0	21.2	106	71-121	
Bromodichloromethane	20.0	20.9	105	69-126	
Bromoform	20.0	23.3	117	57-129	
Bromomethane	20.0	18.6	93	36-142	
2-Butanone	40.0	41.3	103	54-156	
Carbon disulfide	20.0	21.9	109	43-140	
Carbon tetrachloride	20.0	21.5	108	55-137	
Chlorobenzene	20.0	20.9	104	80-121	
Chloroethane	20.0	18.6	93	38-152	
2-Chloroethyl vinyl ether	20.0	18.0	90	40-157	
Chloroform	20.0	20.5	103	74-122	
Chloromethane	20.0	18.6	93	47-143	
2-Chlorotoluene	20.0	20.6	103	79-124	
4-Chlorotoluene	20.0	19.4	97	80-125	
cis-1,2-Dichloroethene	20.0	20.5	103	77-123	
cis-1,3-Dichloropropene	20.0	19.8	99	64-130	
Dibromochloromethane	20.0	22.3	111	70-124	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	53-135	
1,2-Dibromoethane	20.0	20.7	103	71-134	
Dibromomethane	20.0	21.2	106	67-131	
1,2-Dichlorobenzene	20.0	21.6	108	78-120	
1,3-Dichlorobenzene	20.0	21.0	105	80-120	
1,4-Dichlorobenzene	20.0	21.1	105	80-120	
Dichlorodifluoromethane	20.0	22.9	114	34-153	
1,1-Dichloroethane	20.0	19.5	98	72-127	
1,2-Dichloroethane	20.0	19.3	96	66-128	
1,1-Dichloroethene	20.0	21.4	107	63-134	
1,2-Dichloropropane	20.0	20.5	103	75-133	
1,3-Dichloropropane	20.0	20.2	101	68-139	
2,2-Dichloropropane	20.0	20.4	102	48-142	
1,1-Dichloropropene	20.0	20.0	100	71-124	
Ethylbenzene	20.0	20.6	103	80-121	
Hexachlorobutadiene	20.0	25.6	128	37-162	
2-Hexanone	40.0	36.7	92	43-167	
Isopropylbenzene	20.0	20.6	103	74-128	
Methylene Chloride	20.0	20.1	101	71-125	
4-Methyl-2-pentanone	40.0	37.0	92	46-158	
Methyl tert-butyl ether	20.0	18.5	93	65-126	
m-Xylene & p-Xylene	20.0	20.5	103	80-120	

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXC2991.D

Lab ID: LCS 240-534562/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	18.8	94	53-138	
n-Butylbenzene	20.0	19.2	96	62-139	
n-Propylbenzene	20.0	20.1	100	76-127	
o-Xylene	20.0	21.0	105	80-123	
p-Isopropyltoluene	20.0	20.2	101	71-132	
sec-Butylbenzene	20.0	19.9	100	69-135	
Styrene	20.0	20.4	102	80-135	
tert-Butyl alcohol	200	218	109	33-153	
tert-Butylbenzene	20.0	20.1	100	64-134	
1,1,1,2-Tetrachloroethane	20.0	22.0	110	71-124	
1,1,2,2-Tetrachloroethane	20.0	20.1	101	58-157	
Tetrachloroethene	20.0	23.9	120	76-123	
Toluene	20.0	19.9	100	80-123	
trans-1,2-Dichloroethene	20.0	19.7	99	75-124	
trans-1,3-Dichloropropene	20.0	19.4	97	57-129	
1,2,3-Trichlorobenzene	20.0	22.1	111	45-149	
1,2,4-Trichlorobenzene	20.0	20.7	104	44-147	
1,1,1-Trichloroethane	20.0	20.6	103	64-131	
Trichloroethene	20.0	21.4	107	70-122	
Trichlorofluoromethane	20.0	21.2	106	30-170	
1,2,3-Trichloropropane	20.0	21.0	105	57-150	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	24.8	124	51-146	
1,2,4-Trimethylbenzene	20.0	19.9	99	77-129	
Vinyl acetate	20.0	23.3	116	44-145	
Vinyl chloride	20.0	19.7	98	60-144	
Xylenes, Total	40.0	41.5	104	80-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UXC2950.D Lab Sample ID: MB 240-534172/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 07/11/2022 15:54

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 240-534172/5	UXC2947.D	07/11/2022 14:45
MSA-SW37A-070622	240-169444-1	UXC2956.D	07/11/2022 18:14
MSA-SW37B-070622	240-169444-2	UXC2957.D	07/11/2022 18:38
MSA-SW37C-070622	240-169444-3	UXC2958.D	07/11/2022 19:01

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UXC2965.D Lab Sample ID: MB 240-534342/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 07/12/2022 13:41

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 240-534342/5	UXC2962.D	07/12/2022 12:31
MSA-SW37D-070622	240-169444-4	UXC2966.D	07/12/2022 14:04
MSA-SW38A-070622	240-169444-5	UXC2967.D	07/12/2022 14:28
MSA-SW38B-070622	240-169444-6	UXC2968.D	07/12/2022 14:51
MSA-SW38C-070622	240-169444-7	UXC2969.D	07/12/2022 15:14
MSA-SW38D-070622	240-169444-8	UXC2970.D	07/12/2022 15:38
MSA-SW40A-070622	240-169444-9	UXC2971.D	07/12/2022 16:01
MSA-SW40B-070622	240-169444-10	UXC2972.D	07/12/2022 16:24
MSA-SW40C-070622	240-169444-11	UXC2973.D	07/12/2022 16:47
MSA-SW40D-070622	240-169444-12	UXC2974.D	07/12/2022 17:11
MSA-SW41A-070622	240-169444-13	UXC2975.D	07/12/2022 17:34
MSA-SW41B-070622	240-169444-14	UXC2976.D	07/12/2022 17:57
MSA-SW41C-070622	240-169444-15	UXC2977.D	07/12/2022 18:20
MSA-SW41D-070622	240-169444-16	UXC2978.D	07/12/2022 18:43
MSA-SW42A-070622	240-169444-17	UXC2979.D	07/12/2022 19:07
MSA-SW42B-070622	240-169444-18	UXC2980.D	07/12/2022 19:30
MSA-SW42C-070622	240-169444-19	UXC2981.D	07/12/2022 19:53
MSA-SW42D-070622	240-169444-20	UXC2982.D	07/12/2022 20:16
MSA-SW43A-070622	240-169444-21	UXC2983.D	07/12/2022 20:39
MSA-SW43B-070622	240-169444-22	UXC2984.D	07/12/2022 21:02
MSA-SW43C-070622	240-169444-23	UXC2985.D	07/12/2022 21:25

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: UXC2993.D Lab Sample ID: MB 240-534562/10

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 07/13/2022 15:49

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 240-534562/8	UXC2991.D	07/13/2022 15:02
MSA-SW43D-070622	240-169444-24	UXC2994.D	07/13/2022 16:12
TB-070622	240-169444-25	UXC2995.D	07/13/2022 16:35
MSA-SW46A-070622	240-169444-26	UXC2996.D	07/13/2022 16:58
MSA-SW47A-070622	240-169444-27	UXC2997.D	07/13/2022 17:22
MSA-SW48A-070622	240-169444-28	UXC2998.D	07/13/2022 17:45
MSA-SW49A-070622	240-169444-29	UXC2999.D	07/13/2022 18:08
MSA-SWEQB-070622	240-169444-30	UXC3000.D	07/13/2022 18:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1270.D BFB Injection Date: 06/17/2022

Instrument ID: A3UX15 BFB Injection Time: 14:42

Analysis Batch No.: 531220

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.4	(0.6) 1
174	Greater than 50% of mass 95	76.0	
175	5.0 - 9.0 % of mass 174	5.8	(7.6) 1
176	95.0 - 101.0 % of mass 174	75.0	(98.6) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-531220/9	UXC2434.D	06/17/2022	15:29
	STD8260 240-531220/10	UXC2435.D	06/17/2022	15:53
	STD8260 240-531220/11	UXC2436.D	06/17/2022	16:16
	STD8260 240-531220/12	UXC2437.D	06/17/2022	16:40
	ICIS 240-531220/13	UXC2438.D	06/17/2022	17:03
	STD8260 240-531220/14	UXC2439.D	06/17/2022	17:27
	STD8260 240-531220/15	UXC2440.D	06/17/2022	17:50
	STD8260 240-531220/16	UXC2441.D	06/17/2022	18:14
	ICV 240-531220/18	UXC2443.D	06/17/2022	19:01
	STDA9 240-531220/21	UXC2446.D	06/17/2022	20:12
	STDA9 240-531220/22	UXC2447.D	06/17/2022	20:35
	STDA9 240-531220/23	UXC2448.D	06/17/2022	20:59
	STDA9 240-531220/24	UXC2449.D	06/17/2022	21:22
	STDA9 240-531220/25	UXC2450.D	06/17/2022	21:46
	STDA9 240-531220/26	UXC2451.D	06/17/2022	22:10
	STDA9 240-531220/27	UXC2452.D	06/17/2022	22:33
	ICV 240-531220/29	UXC2454.D	06/17/2022	23:21

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1290.D BFB Injection Date: 07/11/2022

Instrument ID: A3UX15 BFB Injection Time: 13:35

Analysis Batch No.: 534172

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	47.3	
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	0.7	(0.8) 1
174	Greater than 50% of mass 95	86.0	
175	5.0 - 9.0 % of mass 174	6.6	(7.6) 1
176	95.0 - 101.0 % of mass 174	83.4	(97.0) 1
177	5.0 - 9.0 % of mass 176	5.4	(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
	CCV 240-534172/3	UXC2945.D	07/11/2022	13:58
	CCVIS 240-534172/4	UXC2946.D	07/11/2022	14:21
	LCS 240-534172/5	UXC2947.D	07/11/2022	14:45
	MB 240-534172/8	UXC2950.D	07/11/2022	15:54
MSA-SW37A-070622	240-169444-1	UXC2956.D	07/11/2022	18:14
MSA-SW37B-070622	240-169444-2	UXC2957.D	07/11/2022	18:38
MSA-SW37C-070622	240-169444-3	UXC2958.D	07/11/2022	19:01

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1291.D BFB Injection Date: 07/12/2022

Instrument ID: A3UX15 BFB Injection Time: 11:22

Analysis Batch No.: 534342

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.9	
75	30.0 - 60.0 % of mass 95	48.7	
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	79.0	
175	5.0 - 9.0 % of mass 174	5.8	(7.4) 1
176	95.0 - 101.0 % of mass 174	77.9	(98.6) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.3) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-534342/3	UXC2960.D	07/12/2022	11:45
	CCVIS 240-534342/4	UXC2961.D	07/12/2022	12:08
	LCS 240-534342/5	UXC2962.D	07/12/2022	12:31
	MB 240-534342/8	UXC2965.D	07/12/2022	13:41
MSA-SW37D-070622	240-169444-4	UXC2966.D	07/12/2022	14:04
MSA-SW38A-070622	240-169444-5	UXC2967.D	07/12/2022	14:28
MSA-SW38B-070622	240-169444-6	UXC2968.D	07/12/2022	14:51
MSA-SW38C-070622	240-169444-7	UXC2969.D	07/12/2022	15:14
MSA-SW38D-070622	240-169444-8	UXC2970.D	07/12/2022	15:38
MSA-SW40A-070622	240-169444-9	UXC2971.D	07/12/2022	16:01
MSA-SW40B-070622	240-169444-10	UXC2972.D	07/12/2022	16:24
MSA-SW40C-070622	240-169444-11	UXC2973.D	07/12/2022	16:47
MSA-SW40D-070622	240-169444-12	UXC2974.D	07/12/2022	17:11
MSA-SW41A-070622	240-169444-13	UXC2975.D	07/12/2022	17:34
MSA-SW41B-070622	240-169444-14	UXC2976.D	07/12/2022	17:57
MSA-SW41C-070622	240-169444-15	UXC2977.D	07/12/2022	18:20
MSA-SW41D-070622	240-169444-16	UXC2978.D	07/12/2022	18:43
MSA-SW42A-070622	240-169444-17	UXC2979.D	07/12/2022	19:07
MSA-SW42B-070622	240-169444-18	UXC2980.D	07/12/2022	19:30
MSA-SW42C-070622	240-169444-19	UXC2981.D	07/12/2022	19:53
MSA-SW42D-070622	240-169444-20	UXC2982.D	07/12/2022	20:16
MSA-SW43A-070622	240-169444-21	UXC2983.D	07/12/2022	20:39
MSA-SW43B-070622	240-169444-22	UXC2984.D	07/12/2022	21:02
MSA-SW43C-070622	240-169444-23	UXC2985.D	07/12/2022	21:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab File ID: BFB1294.D BFB Injection Date: 07/13/2022

Instrument ID: A3UX15 BFB Injection Time: 12:41

Analysis Batch No.: 534562

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.5	
75	30.0 - 60.0 % of mass 95	48.7	
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	0.6	(0.7) 1
174	Greater than 50% of mass 95	85.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.1) 1
176	95.0 - 101.0 % of mass 174	81.5	(95.8) 1
177	5.0 - 9.0 % of mass 176	5.6	(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
	CCV 240-534562/3	UXC2986.D	07/13/2022	13:06
	CCVIS 240-534562/7	UXC2990.D	07/13/2022	14:39
	LCS 240-534562/8	UXC2991.D	07/13/2022	15:02
	MB 240-534562/10	UXC2993.D	07/13/2022	15:49
MSA-SW43D-070622	240-169444-24	UXC2994.D	07/13/2022	16:12
TB-070622	240-169444-25	UXC2995.D	07/13/2022	16:35
MSA-SW46A-070622	240-169444-26	UXC2996.D	07/13/2022	16:58
MSA-SW47A-070622	240-169444-27	UXC2997.D	07/13/2022	17:22
MSA-SW48A-070622	240-169444-28	UXC2998.D	07/13/2022	17:45
MSA-SW49A-070622	240-169444-29	UXC2999.D	07/13/2022	18:08
MSA-SWEQB-070622	240-169444-30	UXC3000.D	07/13/2022	18:31

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Sample No.: ICIS 240-531220/13 Date Analyzed: 06/17/2022 17:03

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2438.D Heated Purge: (Y/N) N

Calibration ID: 66322

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1012688	5.93	738465	8.45	356681	10.58
UPPER LIMIT		2025376	6.43	1476930	8.95	713362	11.08
LOWER LIMIT		506344	5.43	369233	7.95	178341	10.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-531220/18		1011430	5.93	740290	8.45	362318	10.58
CCVIS 240-534172/4		862850	5.93	615366	8.45	305859	10.57
CCVIS 240-534342/4		858814	5.92	622982	8.45	317017	10.57
CCVIS 240-534562/7		869658	5.93	637387	8.45	335395	10.57

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-534172/4 Date Analyzed: 07/11/2022 14:21

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2946.D Heated Purge: (Y/N) N

Calibration ID: 66326

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		862850	5.93	615366	8.45	305859	10.57
UPPER LIMIT		1725700	6.43	1230732	8.95	611718	11.07
LOWER LIMIT		431425	5.43	307683	7.95	152930	10.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-534172/5		918595	5.93	667529	8.45	331255	10.57
MB 240-534172/8		820789	5.93	616954	8.45	271275	10.57
240-169444-1	MSA-SW37A-070622	769813	5.92	554430	8.45	254983	10.57
240-169444-2	MSA-SW37B-070622	801562	5.93	595883	8.45	272392	10.57
240-169444-3	MSA-SW37C-070622	789540	5.93	572725	8.45	268666	10.57

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-534342/4 Date Analyzed: 07/12/2022 12:08

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2961.D Heated Purge: (Y/N) N

Calibration ID: 66326

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		858814	5.92	622982	8.45	317017	10.57
UPPER LIMIT		1717628	6.42	1245964	8.95	634034	11.07
LOWER LIMIT		429407	5.42	311491	7.95	158509	10.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-534342/5		898890	5.93	672368	8.45	335502	10.57
MB 240-534342/8		822032	5.93	606659	8.45	289873	10.57
240-169444-4	MSA-SW37D-070622	797196	5.93	588409	8.45	274329	10.57
240-169444-5	MSA-SW38A-070622	808700	5.93	592645	8.45	275645	10.57
240-169444-6	MSA-SW38B-070622	779951	5.93	571579	8.45	268122	10.57
240-169444-7	MSA-SW38C-070622	771799	5.93	562068	8.45	249564	10.57
240-169444-8	MSA-SW38D-070622	784408	5.93	584586	8.45	263427	10.57
240-169444-9	MSA-SW40A-070622	780325	5.93	567373	8.45	246277	10.57
240-169444-10	MSA-SW40B-070622	789029	5.93	577100	8.45	274546	10.57
240-169444-11	MSA-SW40C-070622	760744	5.93	567945	8.45	251370	10.57
240-169444-12	MSA-SW40D-070622	783113	5.93	584505	8.45	270337	10.57
240-169444-13	MSA-SW41A-070622	774923	5.93	565040	8.45	259056	10.57
240-169444-14	MSA-SW41B-070622	789702	5.93	590587	8.45	276429	10.57
240-169444-15	MSA-SW41C-070622	767592	5.93	566168	8.45	263072	10.57
240-169444-16	MSA-SW41D-070622	772230	5.93	566792	8.45	262536	10.57
240-169444-17	MSA-SW42A-070622	750823	5.93	568486	8.45	258867	10.57
240-169444-18	MSA-SW42B-070622	741399	5.93	548501	8.45	238875	10.57
240-169444-19	MSA-SW42C-070622	760038	5.93	568005	8.45	260888	10.57
240-169444-20	MSA-SW42D-070622	734296	5.93	536694	8.45	247476	10.57
240-169444-21	MSA-SW43A-070622	749074	5.93	541892	8.45	250793	10.57
240-169444-22	MSA-SW43B-070622	793093	5.93	595433	8.45	276105	10.57
240-169444-23	MSA-SW43C-070622	751265	5.93	558570	8.45	263441	10.57

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Sample No.: CCVIS 240-534562/7 Date Analyzed: 07/13/2022 14:39

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2990.D Heated Purge: (Y/N) N

Calibration ID: 66326

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		869658	5.93	637387	8.45	335395	10.57
UPPER LIMIT		1739316	6.43	1274774	8.95	670790	11.07
LOWER LIMIT		434829	5.43	318694	7.95	167698	10.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-534562/8		881908	5.93	655464	8.45	335247	10.57
MB 240-534562/10		812152	5.93	600978	8.45	283277	10.57
240-169444-24	MSA-SW43D-070622	813070	5.93	603396	8.45	284243	10.57
240-169444-25	TB-070622	805972	5.93	603541	8.45	276522	10.57
240-169444-26	MSA-SW46A-070622	772951	5.93	569803	8.45	254612	10.57
240-169444-27	MSA-SW47A-070622	806425	5.93	599471	8.45	276475	10.57
240-169444-28	MSA-SW48A-070622	779659	5.93	566708	8.45	260325	10.57
240-169444-29	MSA-SW49A-070622	793926	5.93	594391	8.45	281341	10.57
240-169444-30	MSA-SWEQB-070622	786039	5.93	581391	8.45	279216	10.57

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 Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 | Lab Sample ID: 240-169444-1

Matrix: Water | Lab File ID: UXC2956.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 | Lab Sample ID: 240-169444-1

Matrix: Water | Lab File ID: UXC2956.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 | Lab Sample ID: 240-169444-1

Matrix: Water | Lab File ID: UXC2956.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	108		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	97		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37A-070622 | Lab Sample ID: 240-169444-1

Matrix: Water | Lab File ID: UXC2956.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2956.D
Lims ID: 240-169444-C-1
Client ID: MSA-SW37A-070622
Sample Type: Client
Inject. Date: 11-Jul-2022 18:14:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-014
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 08:24:20 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 08:29:00

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.920	5.932	-0.012	99	769813	20.0	
*	2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	554430	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	254983	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	93	193175	21.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.683	-0.012	100	231783	20.7	
$	6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	718862	19.4	
$	7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	227065	17.5	
	160 Chlorobenzene-d5 (IS)	117		0.680				ND	
	9 Dichlorodifluoromethane	85		2.054				ND	
	10 Chloromethane	50		2.280				ND	
	11 Vinyl chloride	62		2.398				ND	
	13 Bromomethane	94		2.754				ND	
	14 Chloroethane	64		2.861				ND	
	16 Trichlorofluoromethane	101		3.086				ND	
	19 1,1-Dichloroethene	96		3.572				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
	21 Acetone	43		3.596				ND	7
	24 Carbon disulfide	76		3.786				ND	
	28 Methylene Chloride	84		3.987				ND	
	29 2-Methyl-2-propanol	59		4.047				ND	
	31 Methyl tert-butyl ether	73		4.201				ND	
	32 trans-1,2-Dichloroethene	96		4.213				ND	
	33 Chlorodifluoromethane TIC	51		4.221				ND	
	36 Vinyl acetate	43		4.545				ND	
	37 Isopropyl ether	87		4.568				ND	
	35 1,1-Dichloroethane	63		4.580				ND	
	39 Tert-butyl ethyl ether	59		4.853				ND	
	40 2-Butanone (MEK)	72		4.995				ND	
	41 cis-1,2-Dichloroethene	96		5.031				ND	
	42 2,2-Dichloropropane	97		5.031				ND	
	46 Chlorobromomethane	128		5.221				ND	
	48 Chloroform	83		5.280				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.742				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130	6.205	6.217	-0.012	92	3274	0.3046	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.501				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
78 2-Hexanone	43		7.747				ND	
77 1,3-Dichloropropane	76		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
86 Ethylbenzene	106		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
109 4-Isopropyltoluene	119		10.510				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

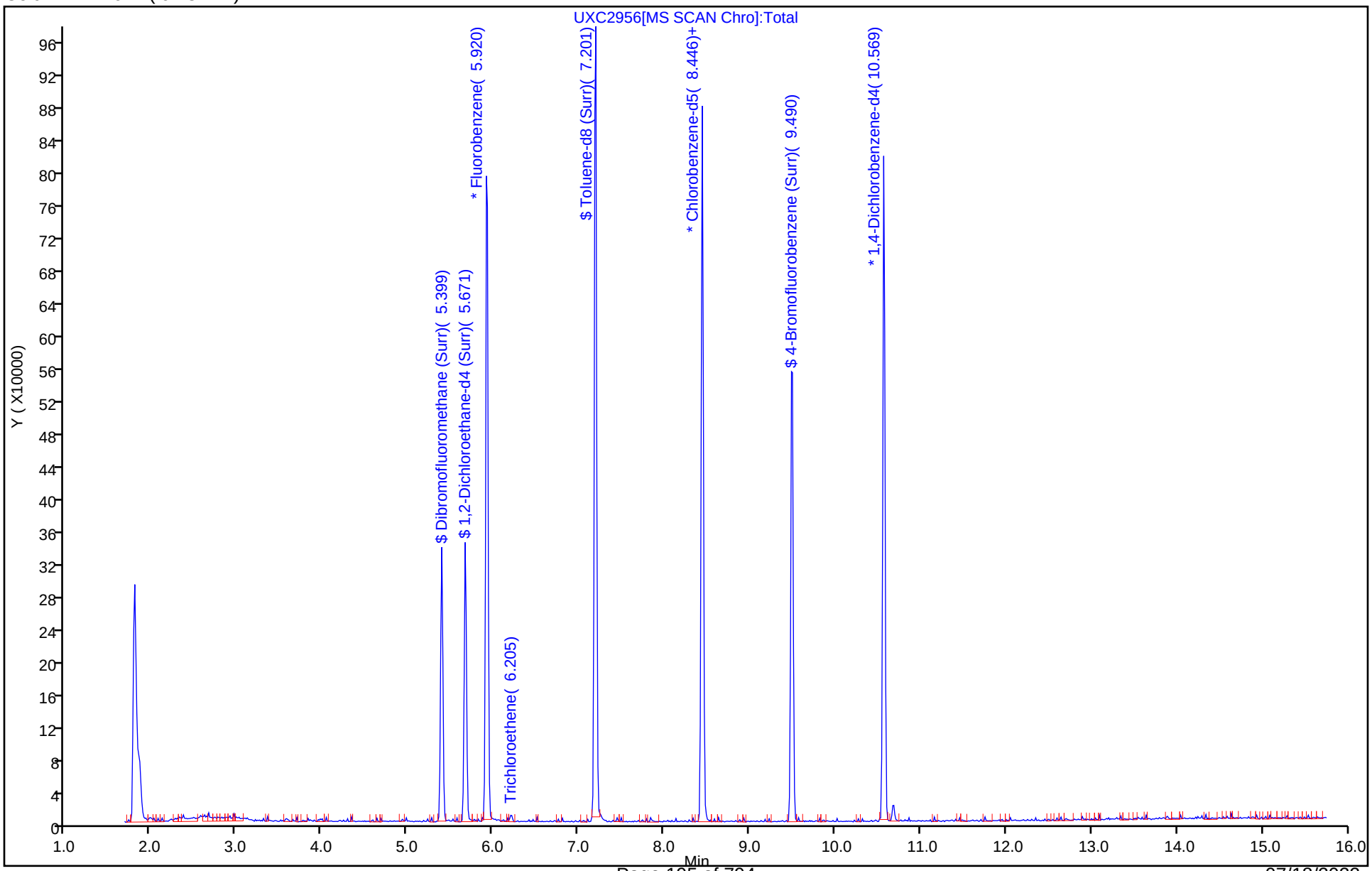
Report Date: 12-Jul-2022 08:29:00 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2956.D

Injection Date:	11-Jul-2022 18:14:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-1	Lab Sample ID:	240-169444-1	Worklist Smp#:	14
Client ID:	MSA-SW37A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2956.D
Lims ID: 240-169444-C-1
Client ID: MSA-SW37A-070622
Sample Type: Client
Inject. Date: 11-Jul-2022 18:14:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-014
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 08:24:20 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 08:29:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.6	108.14
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.44
$ 6 Toluene-d8 (Surr)	20.0	19.4	96.99
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.5	87.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-070622 | Lab Sample ID: 240-169444-2

Matrix: Water | Lab File ID: UXC2957.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-070622 | Lab Sample ID: 240-169444-2

Matrix: Water | Lab File ID: UXC2957.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-070622 | Lab Sample ID: 240-169444-2

Matrix: Water | Lab File ID: UXC2957.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37B-070622 | Lab Sample ID: 240-169444-2

Matrix: Water | Lab File ID: UXC2957.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 18:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2957.D
Lims ID: 240-169444-B-2
Client ID: MSA-SW37B-070622
Sample Type: Client
Inject. Date: 11-Jul-2022 18:38:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-015
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 08:24:20 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 08:29:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	801562	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	595883	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	272392	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	93	194829	20.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.683	0.000	100	239344	20.5	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	739856	18.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	238250	17.1	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.054				ND	
10 Chloromethane	50		2.280				ND	
11 Vinyl chloride	62		2.398				ND	
13 Bromomethane	94		2.754				ND	
14 Chloroethane	64		2.861				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.572				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43	3.596	3.596	0.000	99	7744	0.3904	
24 Carbon disulfide	76		3.786				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.580				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.031				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.221				ND	
48 Chloroform	83		5.280				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.742				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130	6.217	6.217	0.000	88	2602	0.2325	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.501				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
78 2-Hexanone	43		7.747				ND	
77 1,3-Dichloropropane	76		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
86 Ethylbenzene	106		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
109 4-Isopropyltoluene	119		10.510				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

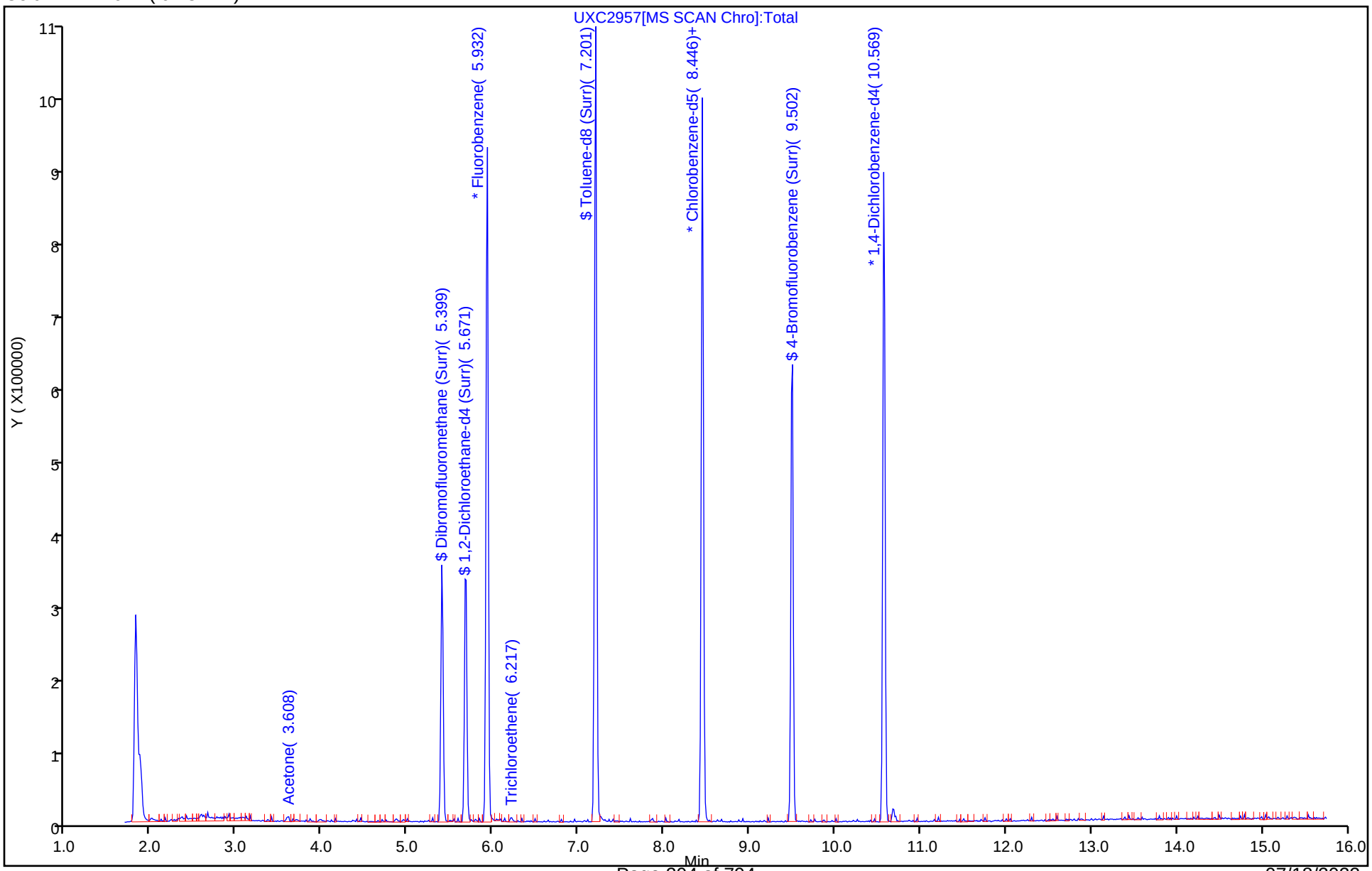
Report Date: 12-Jul-2022 08:29:13 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2957.D

Injection Date:	11-Jul-2022 18:38:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-2	Lab Sample ID:	240-169444-2	Worklist Smp#:	15
Client ID:	MSA-SW37B-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2957.D
Lims ID: 240-169444-B-2
Client ID: MSA-SW37B-070622
Sample Type: Client
Inject. Date: 11-Jul-2022 18:38:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-015
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 08:24:20 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 08:29:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.9	104.75
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.5	102.58
$ 6 Toluene-d8 (Surr)	20.0	18.6	92.87
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.1	85.63

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-070622 | Lab Sample ID: 240-169444-3

Matrix: Water | Lab File ID: UXC2958.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:38

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 19:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-070622 | Lab Sample ID: 240-169444-3

Matrix: Water | Lab File ID: UXC2958.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:38

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 19:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-070622 | Lab Sample ID: 240-169444-3

Matrix: Water | Lab File ID: UXC2958.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:38

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 19:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37C-070622 | Lab Sample ID: 240-169444-3

Matrix: Water | Lab File ID: UXC2958.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:38

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 19:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2958.D
Lims ID: 240-169444-B-3
Client ID: MSA-SW37C-070622
Sample Type: Client
Inject. Date: 11-Jul-2022 19:01:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-016
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 08:24:20 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 08:29:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	100	789540	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	572725	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	268666	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	93	192477	21.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.683	-0.012	100	229470	20.0	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	729944	19.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.501	9.490	0.011	96	229223	17.1	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.054				ND	
10 Chloromethane	50		2.280				ND	
11 Vinyl chloride	62		2.398				ND	
13 Bromomethane	94		2.754				ND	
14 Chloroethane	64		2.861				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.572				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43	3.584	3.596	-0.012	98	7151	0.2216	
24 Carbon disulfide	76		3.786				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.580				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.031				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.221				ND	
48 Chloroform	83		5.280				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.742				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130	6.217	6.217	0.000	92	1917	0.1739	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.501				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
78 2-Hexanone	43		7.747				ND	
77 1,3-Dichloropropane	76		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
86 Ethylbenzene	106		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
109 4-Isopropyltoluene	119		10.510				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

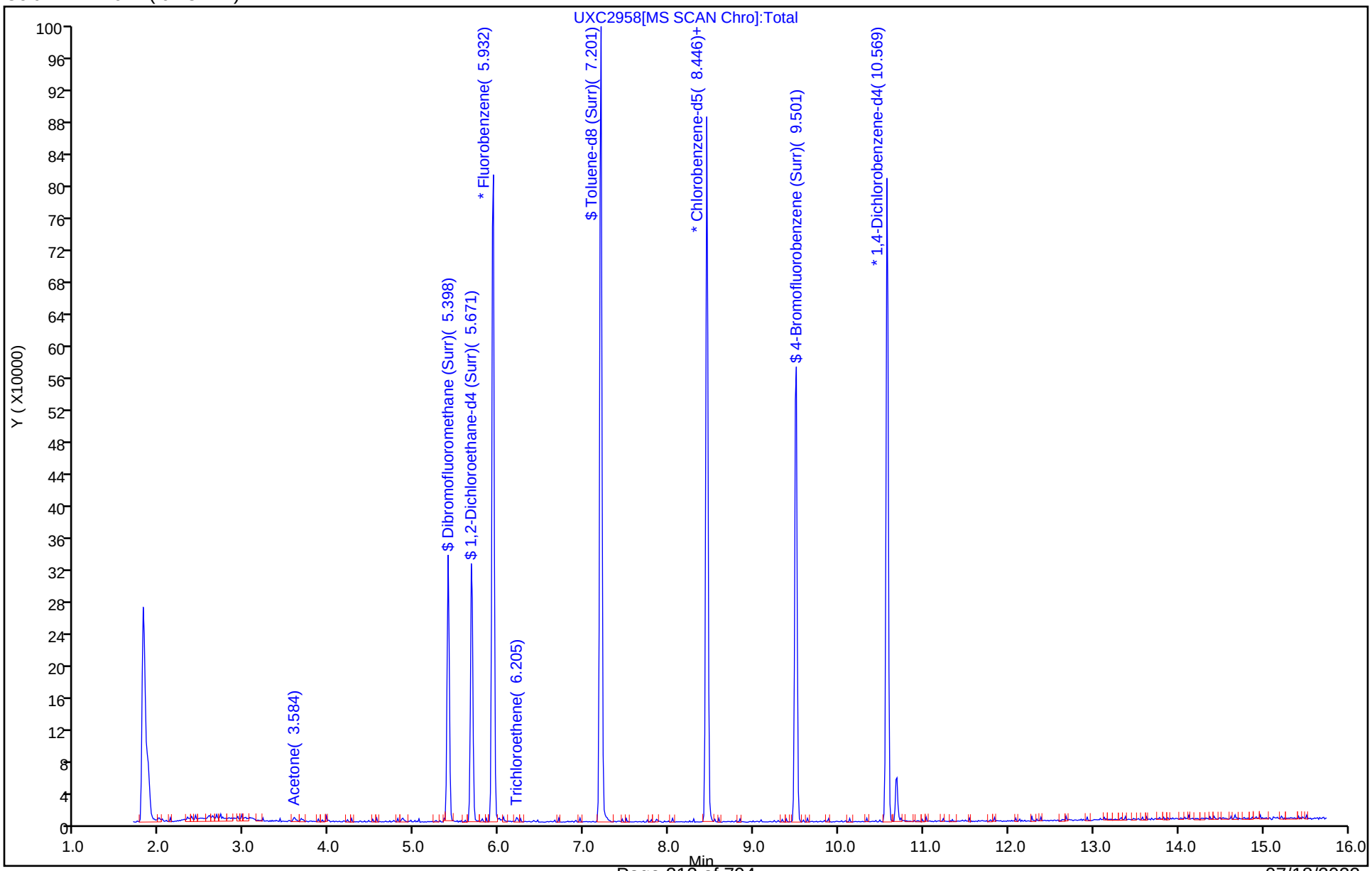
Report Date: 12-Jul-2022 08:29:29 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2958.D

Injection Date:	11-Jul-2022 19:01:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-3	Lab Sample ID:	240-169444-3	Worklist Smp#:	16
Client ID:	MSA-SW37C-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2958.D
Lims ID: 240-169444-B-3
Client ID: MSA-SW37C-070622
Sample Type: Client
Inject. Date: 11-Jul-2022 19:01:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-016
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 08:24:20 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 08:29:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.0	105.06
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.0	99.85
$ 6 Toluene-d8 (Surr)	20.0	19.1	95.34
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.1	85.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-070622 | Lab Sample ID: 240-169444-4

Matrix: Water | Lab File ID: UXC2966.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-070622 | Lab Sample ID: 240-169444-4

Matrix: Water | Lab File ID: UXC2966.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-070622 | Lab Sample ID: 240-169444-4

Matrix: Water | Lab File ID: UXC2966.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	103		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW37D-070622 | Lab Sample ID: 240-169444-4

Matrix: Water | Lab File ID: UXC2966.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2966.D
Lims ID: 240-169444-B-4
Client ID: MSA-SW37D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 14:04:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-009
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 19:43:54 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 12-Jul-2022 14:32:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	797196	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	588409	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	274329	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	94	189951	20.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	231907	20.0	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	712015	18.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	228219	16.6	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43	3.584	3.584	0.000	98	7239	0.2281	
24 Carbon disulfide	76		3.774				ND	7
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	7
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

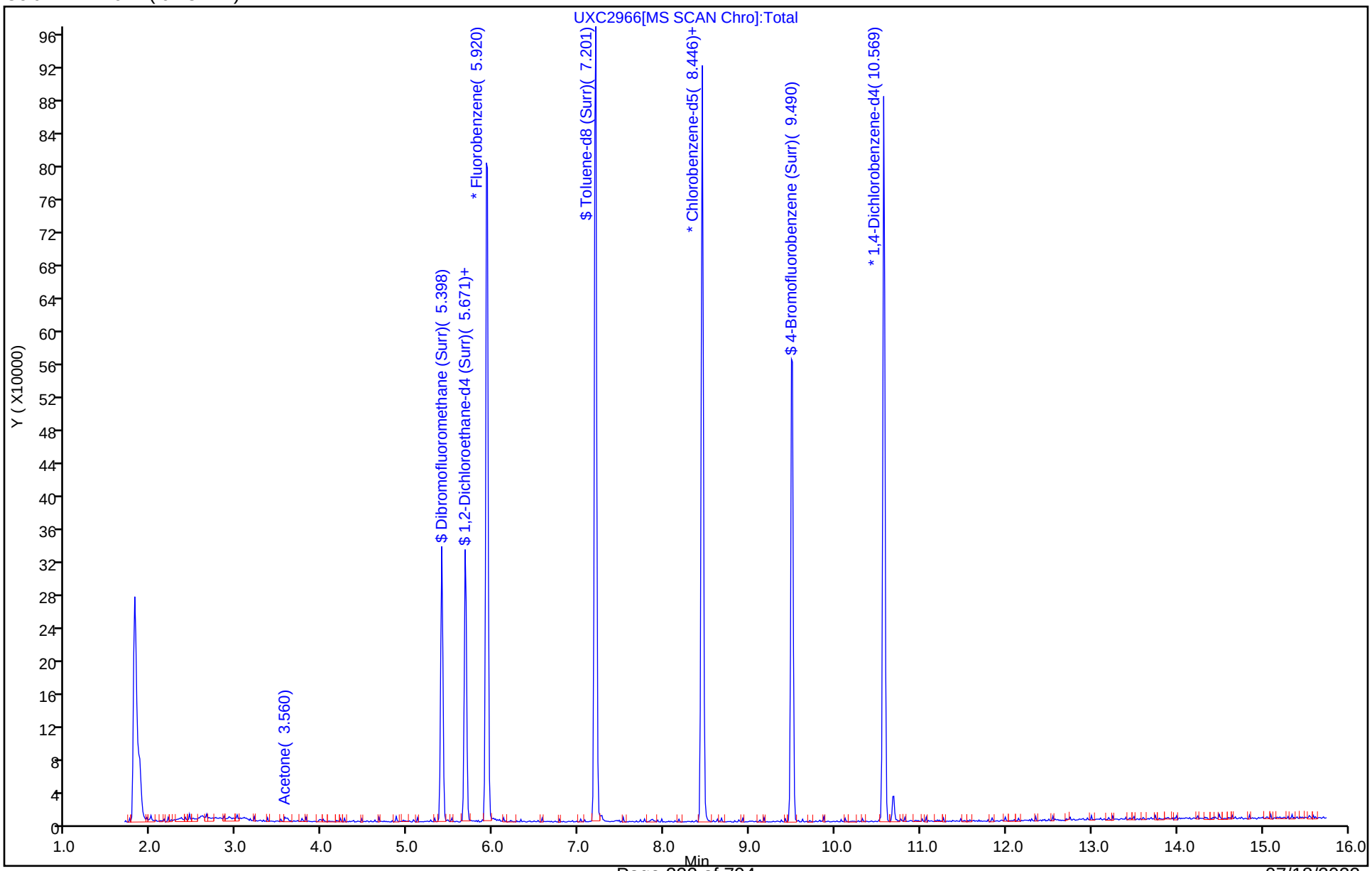
Report Date: 13-Jul-2022 08:21:05 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2966.D

Injection Date:	12-Jul-2022 14:04:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-4	Lab Sample ID:	240-169444-4	Worklist Smp#:	9
Client ID:	MSA-SW37D-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2966.D				
Lims ID:	240-169444-B-4				
Client ID:	MSA-SW37D-070622				
Sample Type:	Client				
Inject. Date:	12-Jul-2022 14:04:30	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0120266-009				
Operator ID:	001904	Instrument ID:	A3UX15		
Method:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	12-Jul-2022 19:43:54	Calib Date:	17-Jun-2022 22:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1656				

First Level Reviewer: MAW1 Date: 12-Jul-2022 14:32:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.5	102.68
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.0	99.94
$ 6 Toluene-d8 (Surr)	20.0	18.1	90.51
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.6	83.06

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-070622 | Lab Sample ID: 240-169444-5

Matrix: Water | Lab File ID: UXC2967.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:28

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-070622 | Lab Sample ID: 240-169444-5

Matrix: Water | Lab File ID: UXC2967.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:28

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-070622 | Lab Sample ID: 240-169444-5

Matrix: Water | Lab File ID: UXC2967.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:28

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	107		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38A-070622 | Lab Sample ID: 240-169444-5

Matrix: Water | Lab File ID: UXC2967.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:41

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:28

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2967.D
Lims ID: 240-169444-B-5
Client ID: MSA-SW38A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 14:28:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-010
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:39:02 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 12-Jul-2022 15:02:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	808700	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	592645	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	275645	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	94	201402	21.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	241592	20.5	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	750815	19.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	238717	17.3	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	U
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	7
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

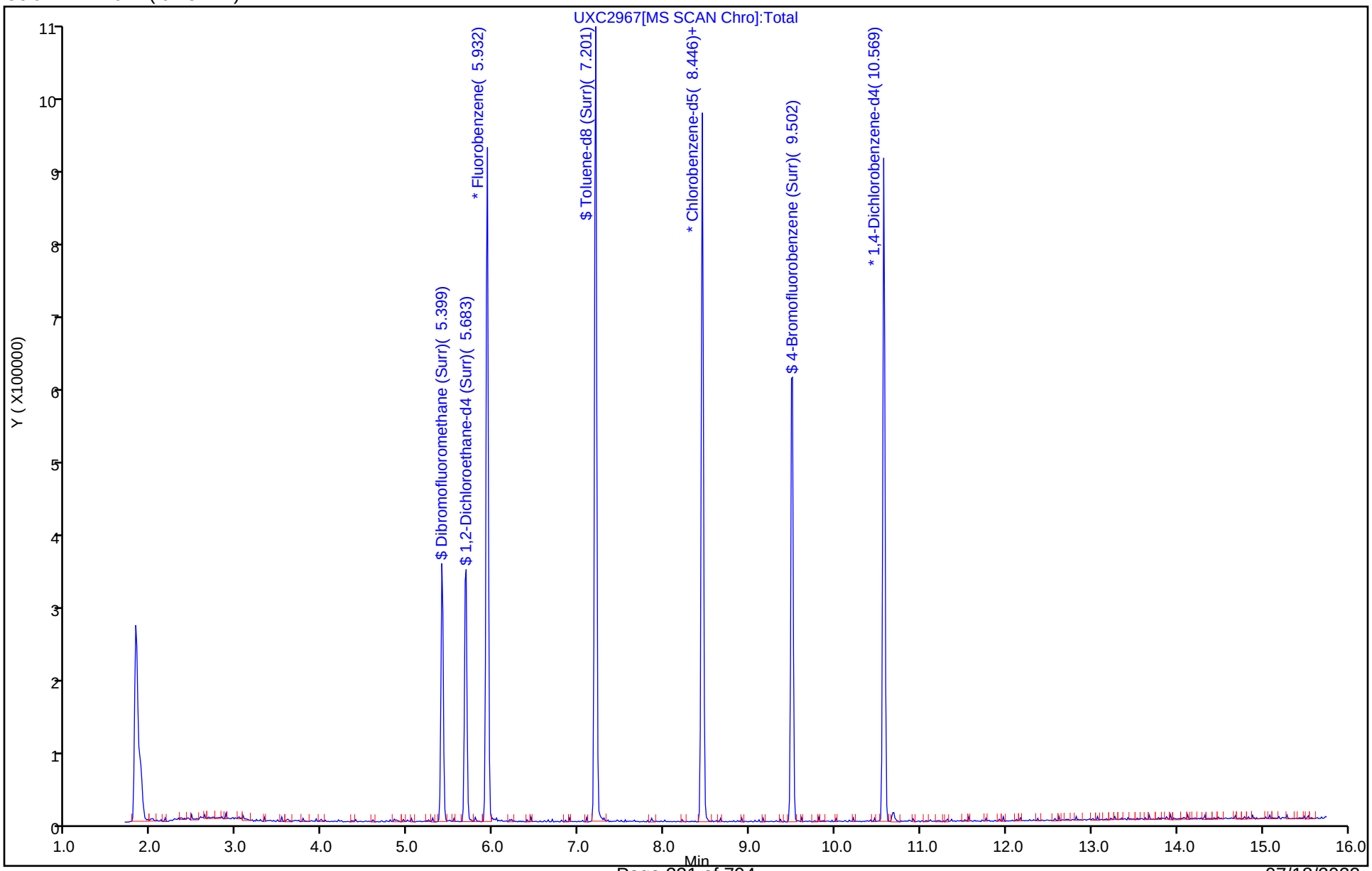
Report Date: 13-Jul-2022 09:39:02 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2967.D

Injection Date:	12-Jul-2022 14:28:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-5	Lab Sample ID:	240-169444-5	Worklist Smp#:	10
Client ID:	MSA-SW38A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2967.D
Lims ID: 240-169444-B-5
Client ID: MSA-SW38A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 14:28:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-010
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:39:02 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 12-Jul-2022 15:02:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.5	107.32
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.5	102.63
$ 6 Toluene-d8 (Surr)	20.0	19.0	94.77
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.3	86.26

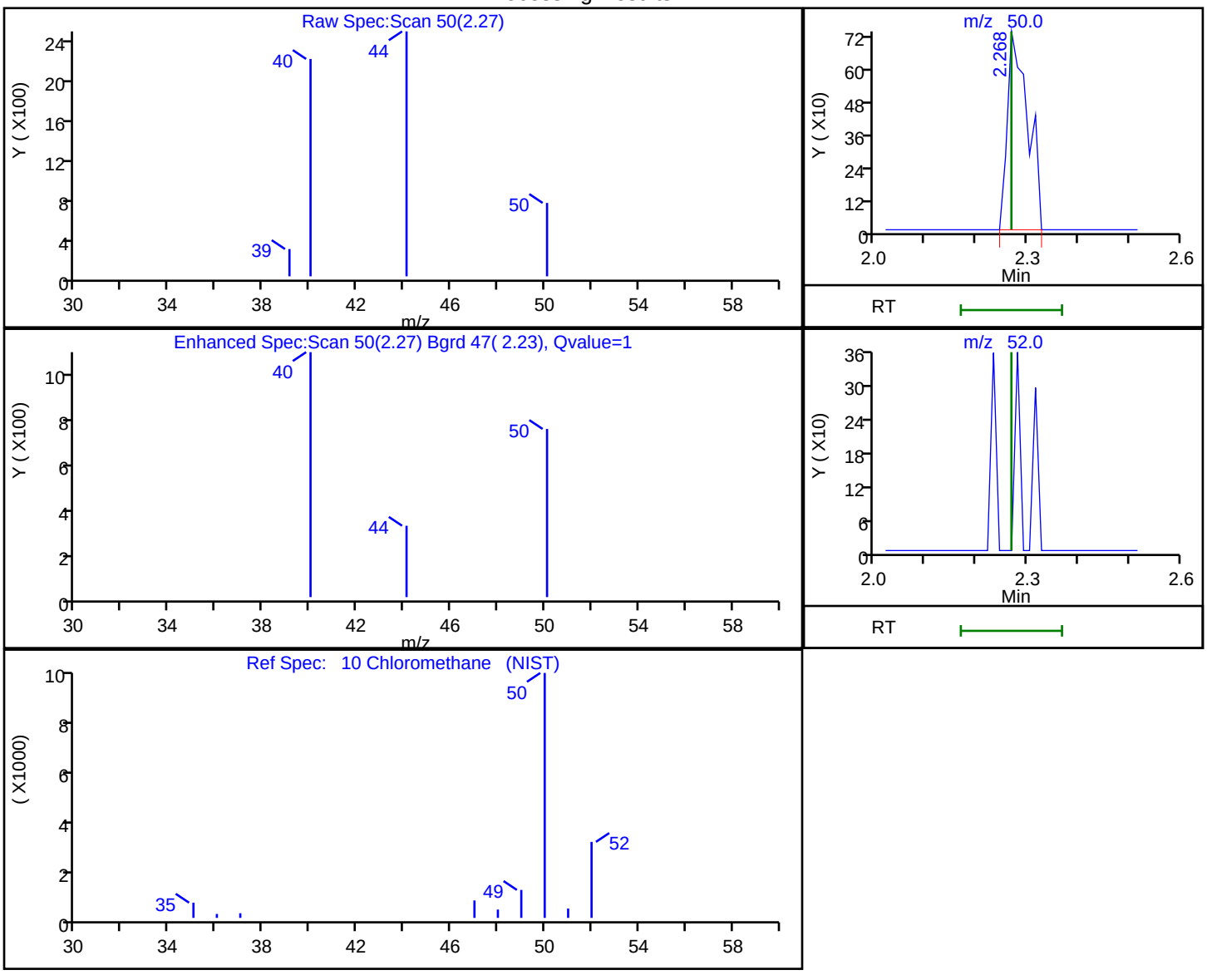
User Disabled Compound Report

Eurofins Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2967.D				
Injection Date:	12-Jul-2022 14:28:30	Instrument ID:	A3UX15		
Lims ID:	240-169444-B-5	Lab Sample ID:	240-169444-5		
Client ID:	MSA-SW38A-070622				
Operator ID:	001904	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	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
2.27	50.00	2067	0.194180
2.27	52.00	0	

Reviewer: MAW1, 13-Jul-2022 09:38:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-070622 | Lab Sample ID: 240-169444-6

Matrix: Water | Lab File ID: UXC2968.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:44

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-070622 | Lab Sample ID: 240-169444-6

Matrix: Water | Lab File ID: UXC2968.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:44

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-070622 | Lab Sample ID: 240-169444-6

Matrix: Water | Lab File ID: UXC2968.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:44

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	108		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		62-137
2037-26-5	Toluene-d8 (Surr)	96		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38B-070622 | Lab Sample ID: 240-169444-6

Matrix: Water | Lab File ID: UXC2968.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:44

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 14:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2968.D
Lims ID: 240-169444-B-6
Client ID: MSA-SW38B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 14:51:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-011
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:22:09 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:22:44

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.932	5.920	0.012	99	779951	20.0	
*	2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	571579	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	268122	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	93	195328	21.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	231640	20.4	
$	6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	733638	19.2	
$	7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	235758	17.7	
	160 Chlorobenzene-d5 (IS)	117		0.680				ND	
	9 Dichlorodifluoromethane	85		2.031				ND	
	10 Chloromethane	50		2.268				ND	
	11 Vinyl chloride	62		2.386				ND	
	13 Bromomethane	94		2.742				ND	
	14 Chloroethane	64		2.837				ND	
	16 Trichlorofluoromethane	101		3.074				ND	
	19 1,1-Dichloroethene	96		3.560				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
	21 Acetone	43		3.584				ND	7
	24 Carbon disulfide	76		3.774				ND	
	28 Methylene Chloride	84		3.987				ND	
	29 2-Methyl-2-propanol	59		4.035				ND	
	31 Methyl tert-butyl ether	73		4.201				ND	
	32 trans-1,2-Dichloroethene	96		4.213				ND	
	33 Chlorodifluoromethane TIC	51		4.221				ND	
	36 Vinyl acetate	43		4.545				ND	
	35 1,1-Dichloroethane	63		4.568				ND	
	37 Isopropyl ether	87		4.568				ND	
	39 Tert-butyl ethyl ether	59		4.853				ND	
	40 2-Butanone (MEK)	72		4.995				ND	
	41 cis-1,2-Dichloroethene	96		5.019				ND	
	42 2,2-Dichloropropane	97		5.031				ND	
	46 Chlorobromomethane	128		5.209				ND	
	48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

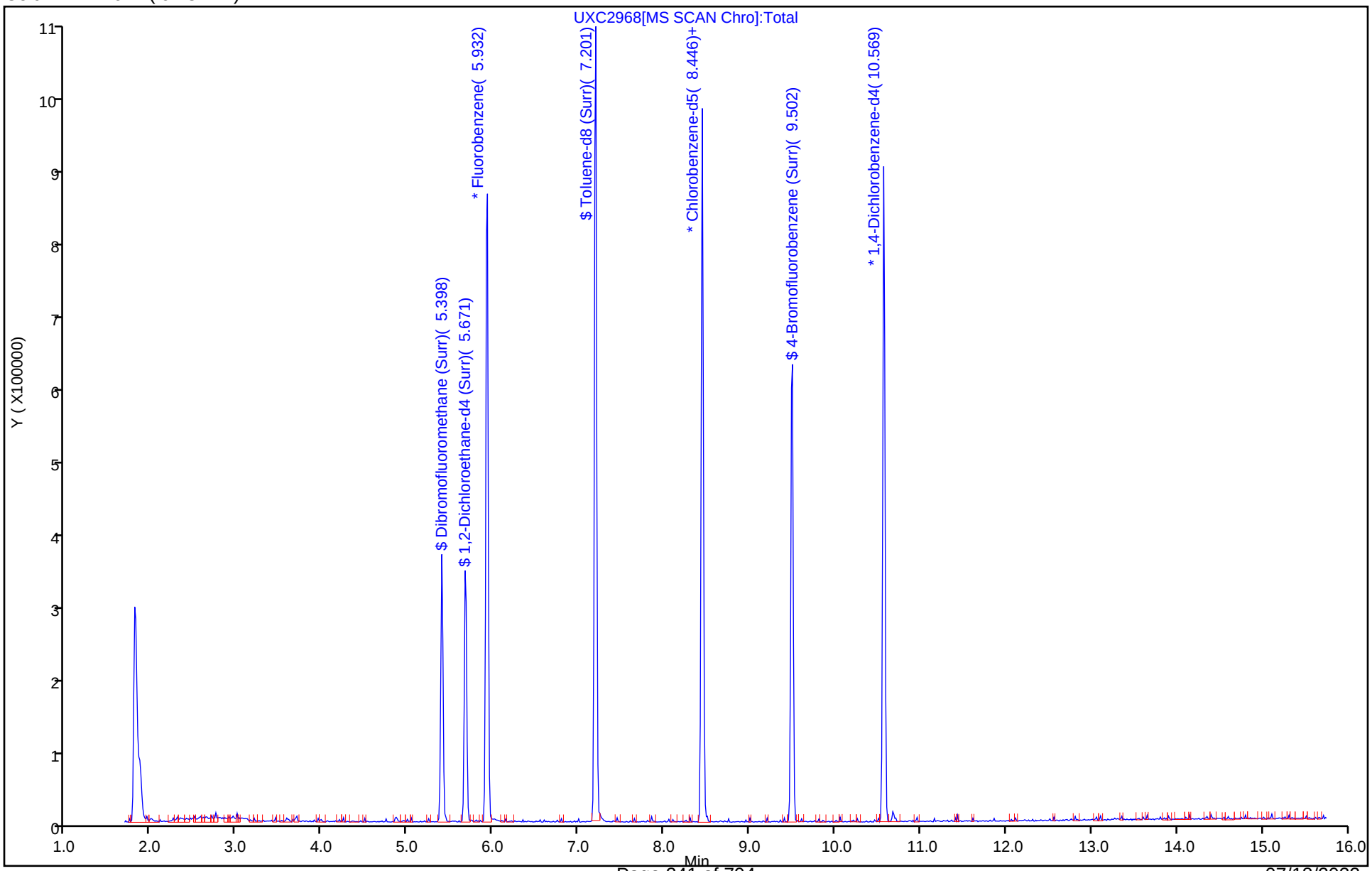
Report Date: 13-Jul-2022 08:22:44 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2968.D

Injection Date:	12-Jul-2022 14:51:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-6	Lab Sample ID:	240-169444-6	Worklist Smp#:	11
Client ID:	MSA-SW38B-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2968.D
Lims ID: 240-169444-B-6
Client ID: MSA-SW38B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 14:51:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-011
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:22:09 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:22:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.6	107.92
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.4	102.03
$ 6 Toluene-d8 (Surr)	20.0	19.2	96.01
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.7	88.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-070622 | Lab Sample ID: 240-169444-7

Matrix: Water | Lab File ID: UXC2969.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:46

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-070622 | Lab Sample ID: 240-169444-7

Matrix: Water | Lab File ID: UXC2969.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:46

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-070622 | Lab Sample ID: 240-169444-7

Matrix: Water | Lab File ID: UXC2969.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:46

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		56-136
1868-53-7	Dibromofluoromethane (Surr)	107		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38C-070622 | Lab Sample ID: 240-169444-7

Matrix: Water | Lab File ID: UXC2969.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:46

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:14

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2969.D
Lims ID: 240-169444-B-7
Client ID: MSA-SW38C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 15:14:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-012
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:39:02 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:25:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	771799	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	562068	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	249564	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	94	190946	21.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	225954	20.1	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	701899	18.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	93	223132	17.0	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50	2.280	2.268	0.012	36	2909	0.2863	
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

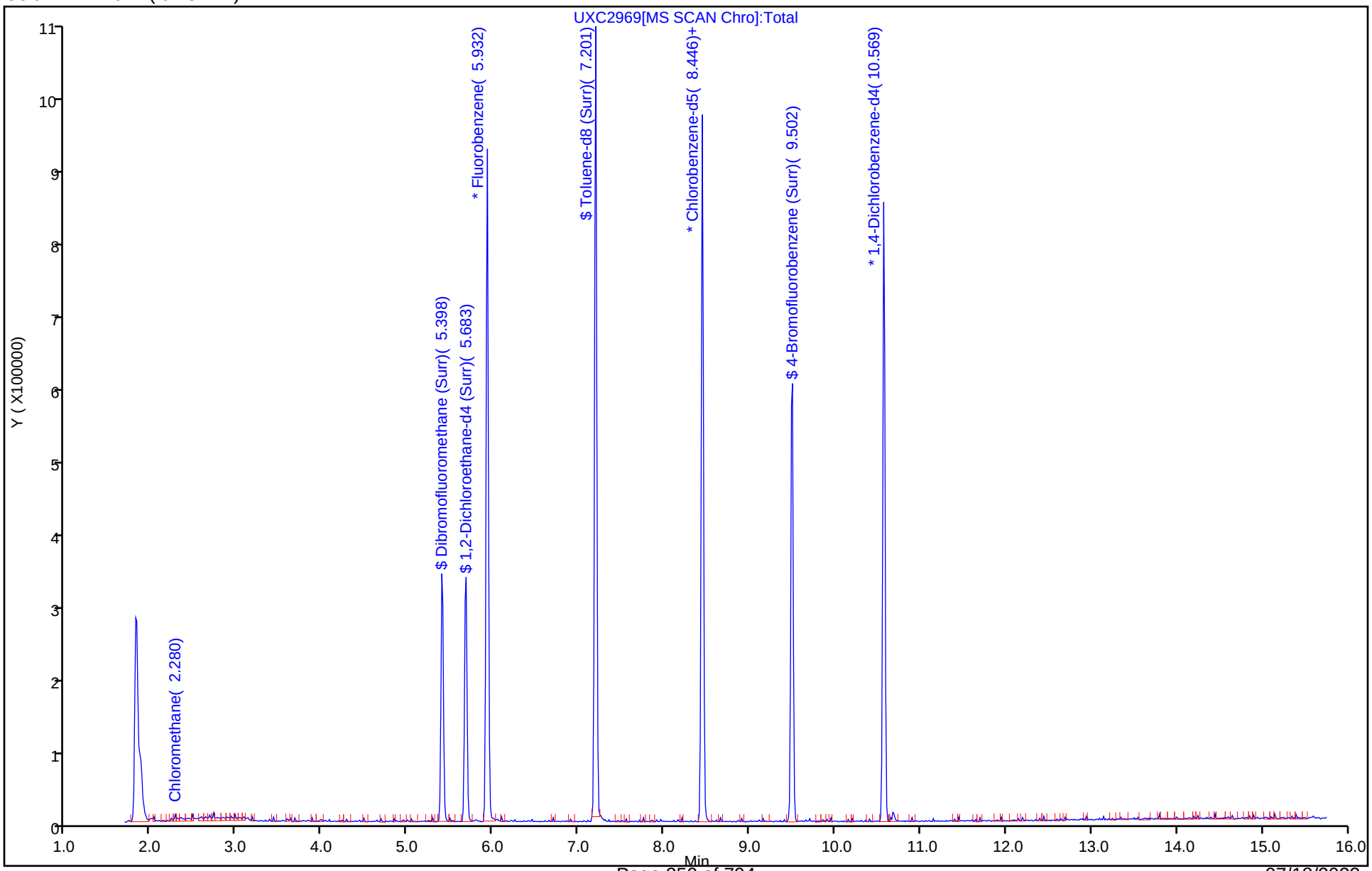
Report Date: 13-Jul-2022 09:39:33 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2969.D

Injection Date:	12-Jul-2022 15:14:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-7	Lab Sample ID:	240-169444-7	Worklist Smp#:	12
Client ID:	MSA-SW38C-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2969.D
Lims ID: 240-169444-B-7
Client ID: MSA-SW38C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 15:14:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-012
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:39:02 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:25:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.3	106.62
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.1	100.58
$ 6 Toluene-d8 (Surr)	20.0	18.7	93.41
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.0	85.02

Manual Integration/User Assign Peak Report

Eurofins Canton

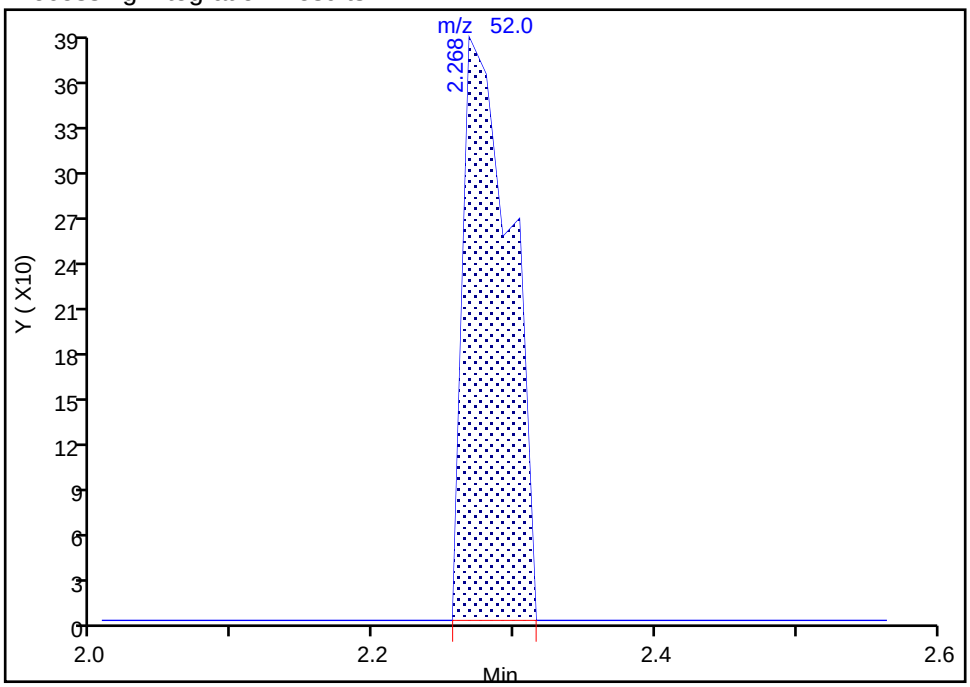
Data File:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2969.D				
Injection Date:	12-Jul-2022 15:14:30	Instrument ID:	A3UX15		
Lims ID:	240-169444-B-7	Lab Sample ID:	240-169444-7		
Client ID:	MSA-SW38C-070622				
Operator ID:	001904	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Signal: 2

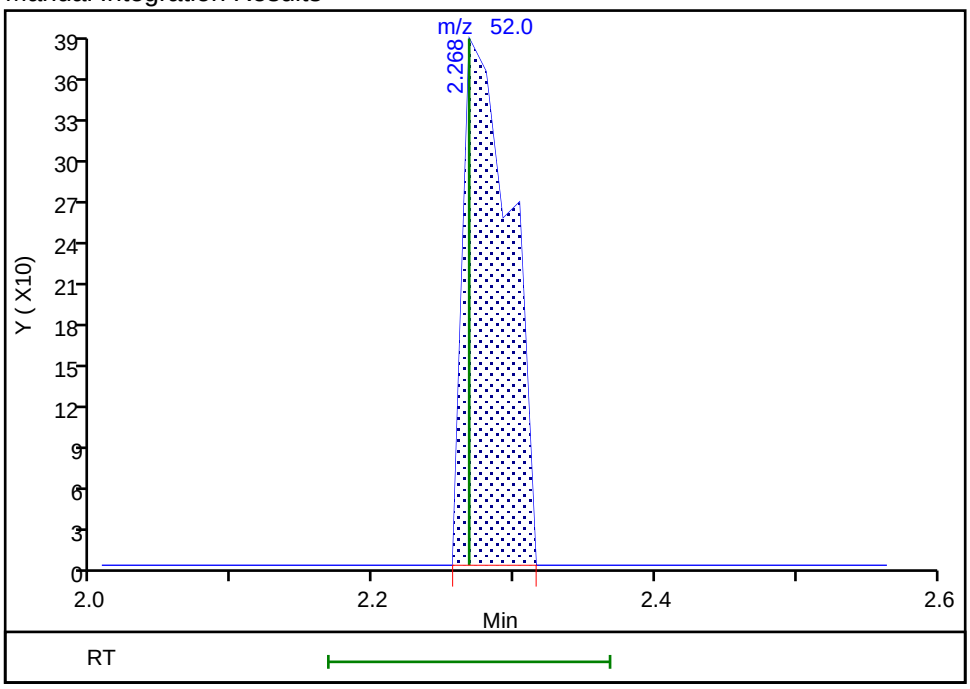
Processing Integration Results

RT: 2.27
Area: 895
Amount: 0.286345
Amount Units: ug/l



Manual Integration Results

RT: 2.27
Area: 895
Amount: 0.286345
Amount Units: ug/l



Reviewer: MAW1, 13-Jul-2022 09:38:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-070622 | Lab Sample ID: 240-169444-8

Matrix: Water | Lab File ID: UXC2970.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-070622 | Lab Sample ID: 240-169444-8

Matrix: Water | Lab File ID: UXC2970.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-070622 | Lab Sample ID: 240-169444-8

Matrix: Water | Lab File ID: UXC2970.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	92		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW38D-070622 | Lab Sample ID: 240-169444-8

Matrix: Water | Lab File ID: UXC2970.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 15:38

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2970.D
Lims ID: 240-169444-B-8
Client ID: MSA-SW38D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 15:38:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-013
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:40:08 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:27:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	784408	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	584586	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	263427	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	93	191309	21.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	230756	20.2	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	721224	18.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.490	0.012	96	227795	16.7	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50	2.280	2.268	0.012	35	2057	0.1992	
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	7
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

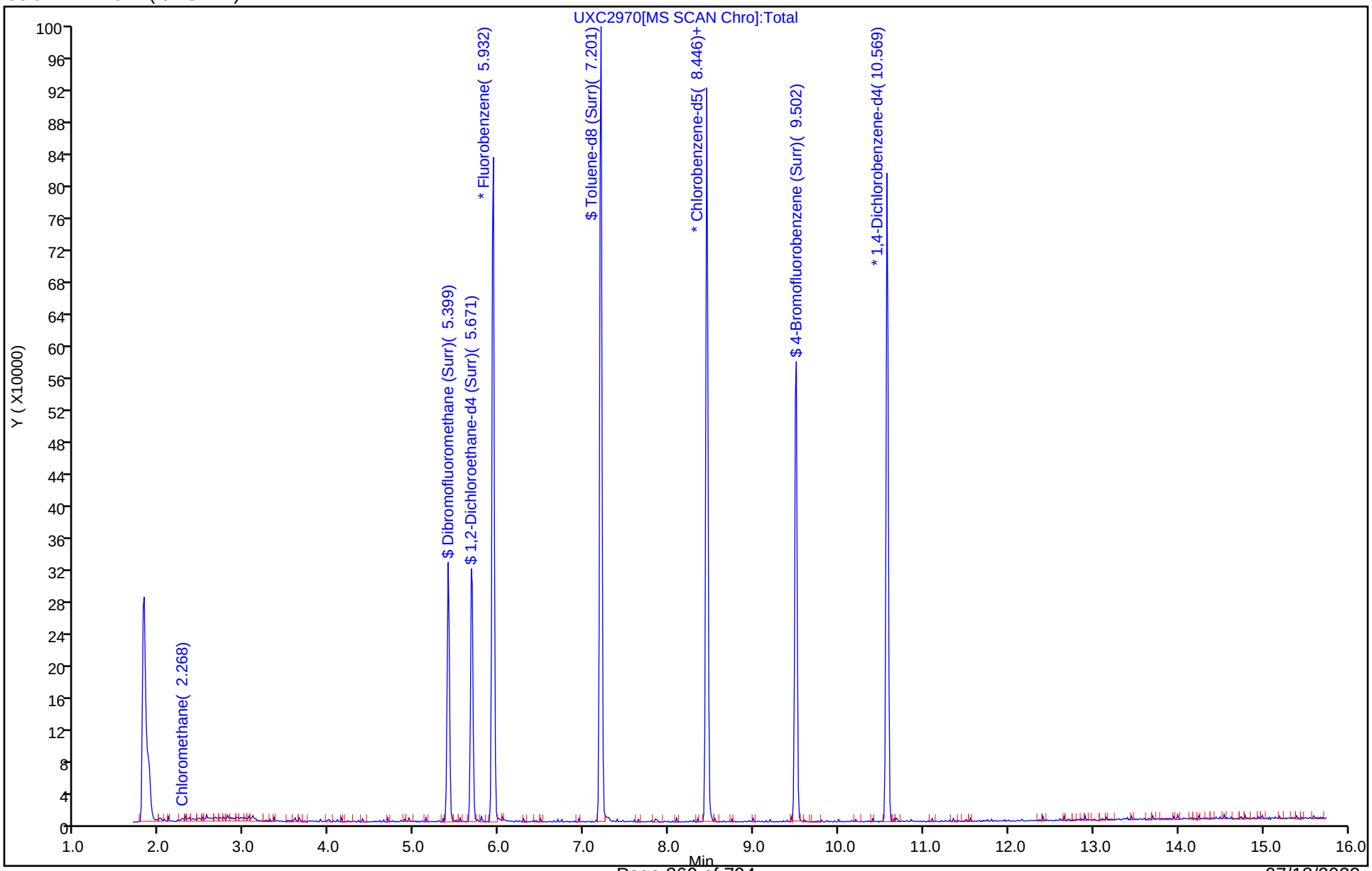
Report Date: 13-Jul-2022 09:40:08 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2970.D

Injection Date:	12-Jul-2022 15:38:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-8	Lab Sample ID:	240-169444-8	Worklist Smp#:	13
Client ID:	MSA-SW38D-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2970.D
Lims ID: 240-169444-B-8
Client ID: MSA-SW38D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 15:38:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-013
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:40:08 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:27:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.0	105.10
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.2	101.06
$ 6 Toluene-d8 (Surr)	20.0	18.5	92.29
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.7	83.45

Manual Integration/User Assign Peak Report

Eurofins Canton

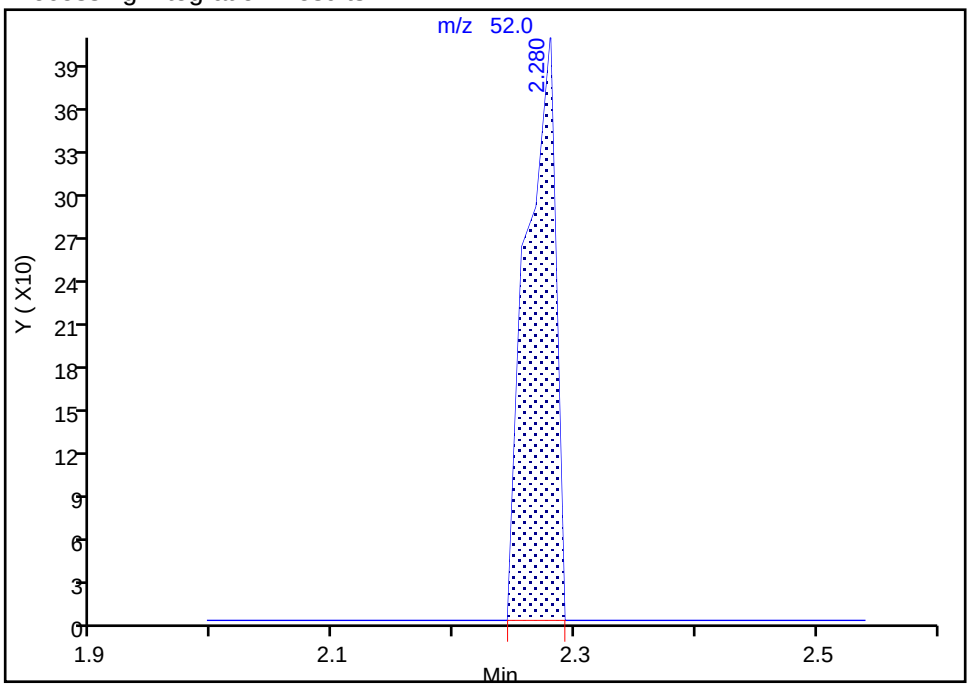
Data File:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2970.D				
Injection Date:	12-Jul-2022 15:38:30	Instrument ID:	A3UX15		
Lims ID:	240-169444-B-8	Lab Sample ID:	240-169444-8		
Client ID:	MSA-SW38D-070622				
Operator ID:	001904	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Signal: 2

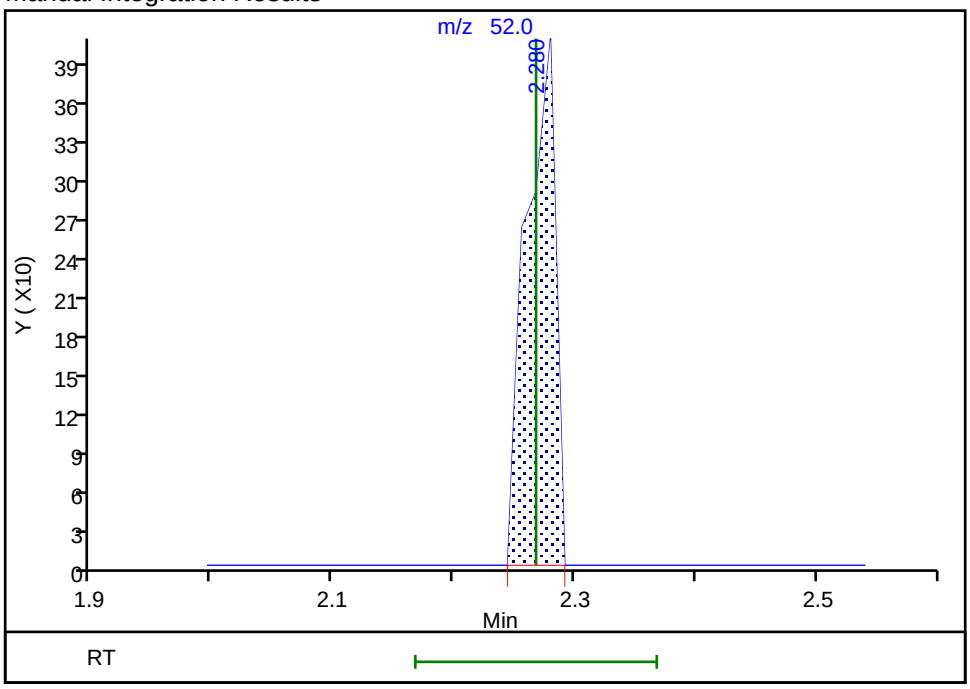
Processing Integration Results

RT: 2.28
Area: 686
Amount: 0.199225
Amount Units: ug/l



Manual Integration Results

RT: 2.28
Area: 686
Amount: 0.199225
Amount Units: ug/l



Reviewer: MAW1, 13-Jul-2022 08:26:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-070622 | Lab Sample ID: 240-169444-9

Matrix: Water | Lab File ID: UXC2971.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-070622 | Lab Sample ID: 240-169444-9

Matrix: Water | Lab File ID: UXC2971.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-070622 | Lab Sample ID: 240-169444-9

Matrix: Water | Lab File ID: UXC2971.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	108		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40A-070622 | Lab Sample ID: 240-169444-9

Matrix: Water | Lab File ID: UXC2971.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2971.D
Lims ID: 240-169444-C-9
Client ID: MSA-SW40A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 16:01:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-014
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:27:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	100	780325	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	567373	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	246277	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	93	194909	21.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	228525	20.1	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	722354	19.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	95	221198	16.7	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43	3.584	3.584	0.000	95	6979	0.1899	
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

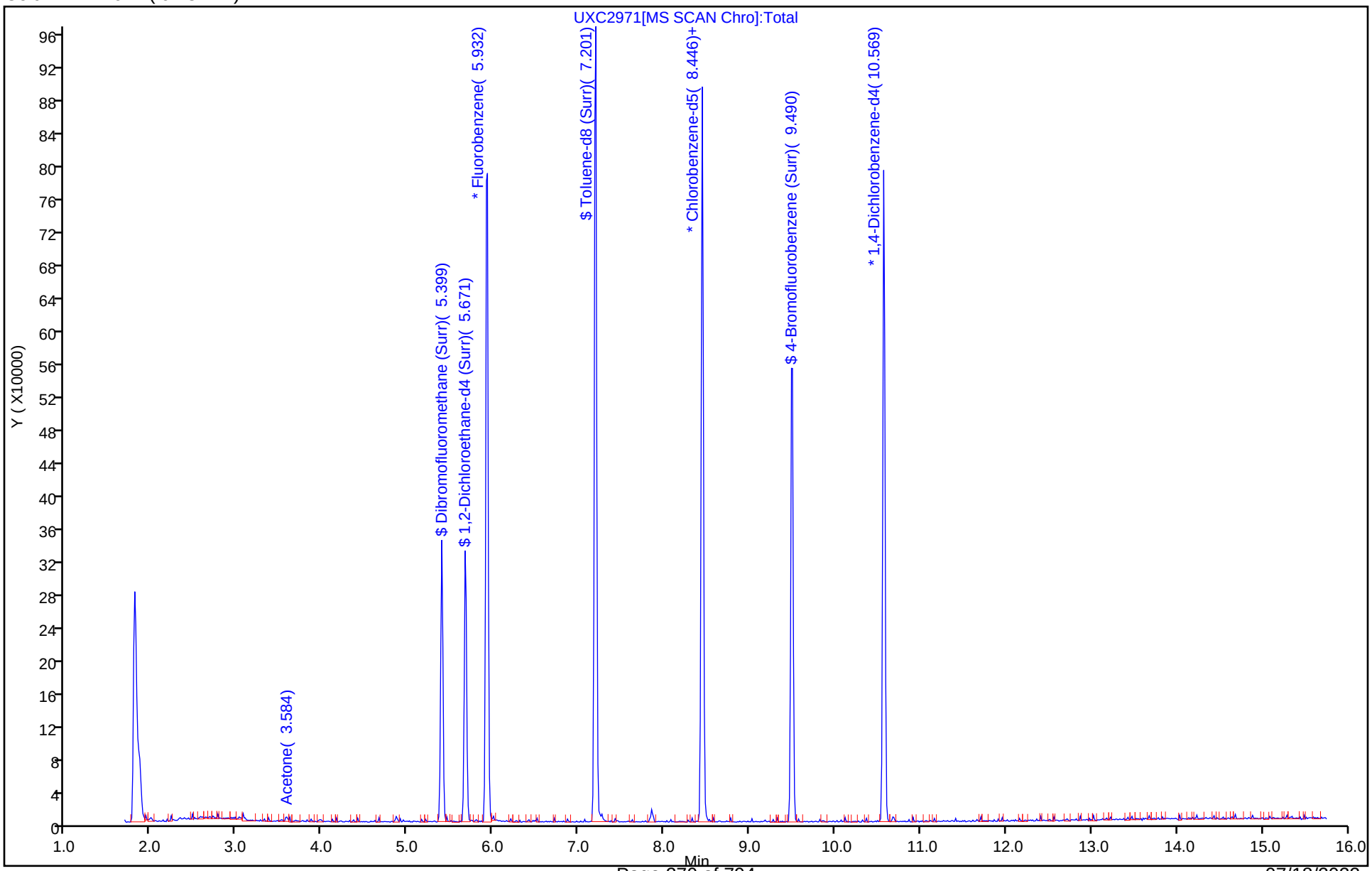
Report Date: 13-Jul-2022 08:27:43 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2971.D

Injection Date:	12-Jul-2022 16:01:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-9	Lab Sample ID:	240-169444-9	Worklist Smp#:	14
Client ID:	MSA-SW40A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2971.D
Lims ID: 240-169444-C-9
Client ID: MSA-SW40A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 16:01:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-014
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:27:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.5	107.64
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.1	100.61
$ 6 Toluene-d8 (Surr)	20.0	19.0	95.23
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.7	83.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-070622 | Lab Sample ID: 240-169444-10

Matrix: Water | Lab File ID: UXC2972.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:03

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-070622 | Lab Sample ID: 240-169444-10

Matrix: Water | Lab File ID: UXC2972.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:03

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-070622 | Lab Sample ID: 240-169444-10

Matrix: Water | Lab File ID: UXC2972.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:03

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	103		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40B-070622 | Lab Sample ID: 240-169444-10

Matrix: Water | Lab File ID: UXC2972.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:03

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2972.D
Lims ID: 240-169444-B-10
Client ID: MSA-SW40B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 16:24:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-015
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:28:48

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.932	5.920	0.012	99	789029	20.0	
*	2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	577100	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	274546	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	94	188582	20.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	226208	19.7	
$	6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	699644	18.1	
$	7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	93	221815	16.5	
	160 Chlorobenzene-d5 (IS)	117		0.680				ND	
	9 Dichlorodifluoromethane	85		2.031				ND	
	10 Chloromethane	50		2.268				ND	
	11 Vinyl chloride	62		2.386				ND	
	13 Bromomethane	94		2.742				ND	
	14 Chloroethane	64		2.837				ND	
	16 Trichlorofluoromethane	101		3.074				ND	
	19 1,1-Dichloroethene	96		3.560				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
	21 Acetone	43		3.584				ND	7
	24 Carbon disulfide	76		3.774				ND	
	28 Methylene Chloride	84		3.987				ND	
	29 2-Methyl-2-propanol	59		4.035				ND	
	31 Methyl tert-butyl ether	73		4.201				ND	
	32 trans-1,2-Dichloroethene	96		4.213				ND	
	33 Chlorodifluoromethane TIC	51		4.221				ND	
	36 Vinyl acetate	43		4.545				ND	
	35 1,1-Dichloroethane	63		4.568				ND	
	37 Isopropyl ether	87		4.568				ND	
	39 Tert-butyl ethyl ether	59		4.853				ND	
	40 2-Butanone (MEK)	72		4.995				ND	
	41 cis-1,2-Dichloroethene	96		5.019				ND	
	42 2,2-Dichloropropane	97		5.031				ND	
	46 Chlorobromomethane	128		5.209				ND	
	48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

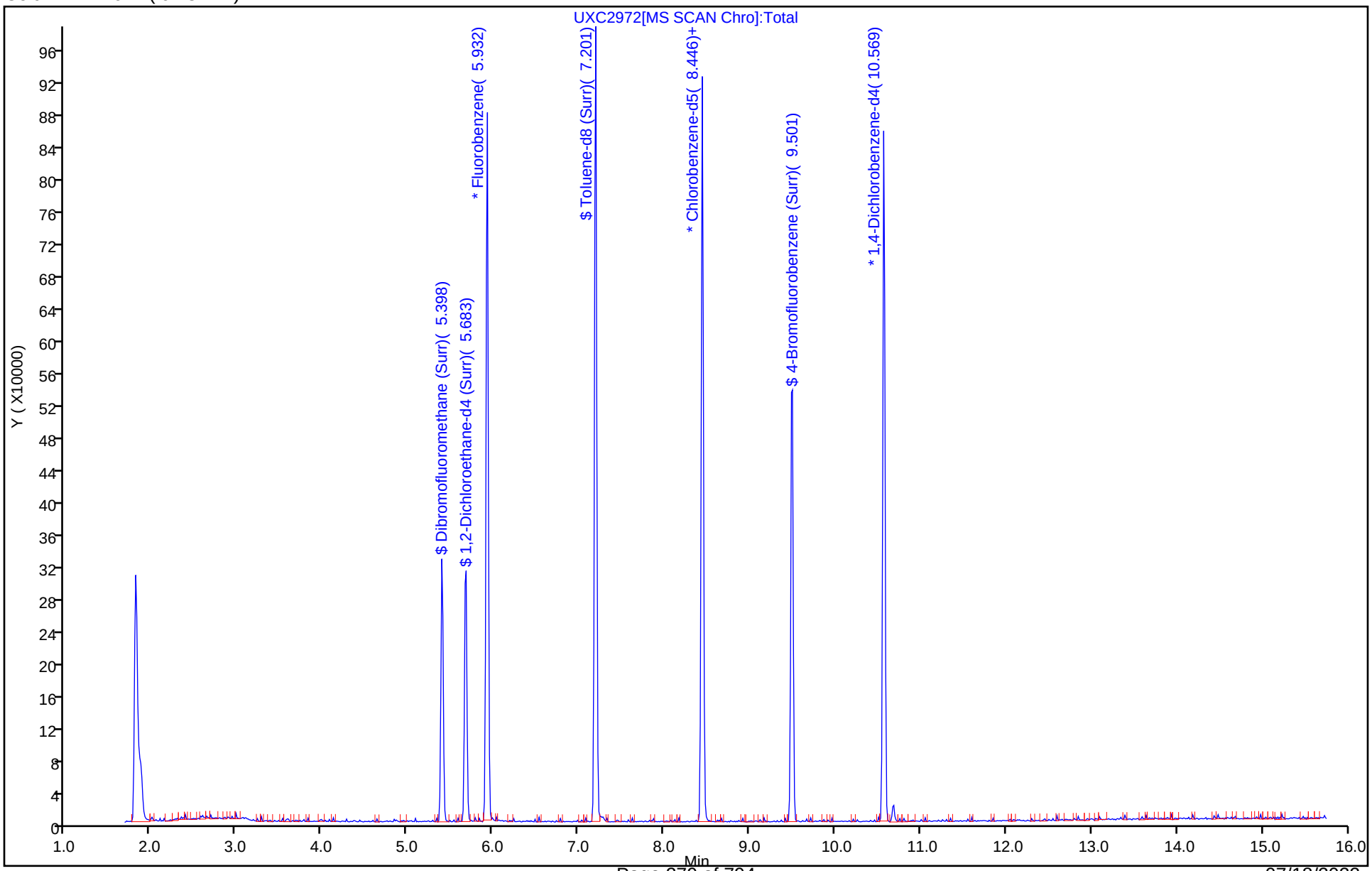
Report Date: 13-Jul-2022 08:28:48 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2972.D

Injection Date:	12-Jul-2022 16:24:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-10	Lab Sample ID:	240-169444-10	Worklist Smp#:	15
Client ID:	MSA-SW40B-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2972.D
Lims ID: 240-169444-B-10
Client ID: MSA-SW40B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 16:24:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-015
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:28:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.6	103.00
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.7	98.49
$ 6 Toluene-d8 (Surr)	20.0	18.1	90.69
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.5	82.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-070622 | Lab Sample ID: 240-169444-11

Matrix: Water | Lab File ID: UXC2973.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:47

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-070622 | Lab Sample ID: 240-169444-11

Matrix: Water | Lab File ID: UXC2973.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:47

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-070622 | Lab Sample ID: 240-169444-11

Matrix: Water | Lab File ID: UXC2973.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:47

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		62-137
2037-26-5	Toluene-d8 (Surr)	94		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40C-070622 | Lab Sample ID: 240-169444-11

Matrix: Water | Lab File ID: UXC2973.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 16:47

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2973.D
Lims ID: 240-169444-B-11
Client ID: MSA-SW40C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 16:47:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-016
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:29:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	760744	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	567945	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	251370	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	93	193788	22.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	99	232763	21.0	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	715409	18.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	95	224757	17.0	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	7
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	7
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

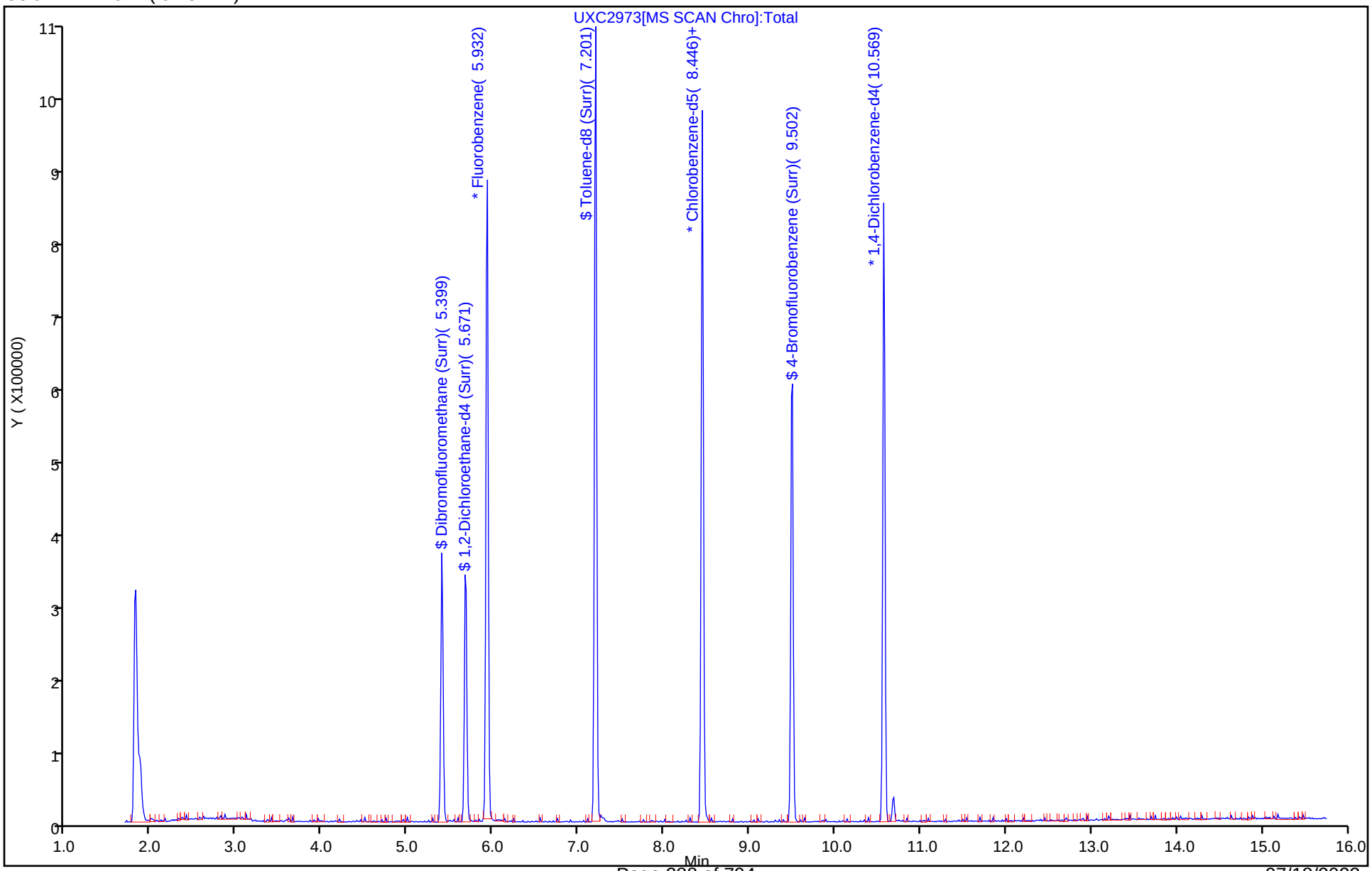
Report Date: 13-Jul-2022 08:29:10 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2973.D

Injection Date:	12-Jul-2022 16:47:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-11	Lab Sample ID:	240-169444-11	Worklist Smp#:	16
Client ID:	MSA-SW40C-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2973.D
Lims ID: 240-169444-B-11
Client ID: MSA-SW40C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 16:47:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-016
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:29:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.0	109.78
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.0	105.11
$ 6 Toluene-d8 (Surr)	20.0	18.8	94.22
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.0	84.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-070622 | Lab Sample ID: 240-169444-12

Matrix: Water | Lab File ID: UXC2974.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:11

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-070622 | Lab Sample ID: 240-169444-12

Matrix: Water | Lab File ID: UXC2974.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:11

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-070622 | Lab Sample ID: 240-169444-12

Matrix: Water | Lab File ID: UXC2974.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:11

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		62-137
2037-26-5	Toluene-d8 (Surr)	89		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW40D-070622 | Lab Sample ID: 240-169444-12

Matrix: Water | Lab File ID: UXC2974.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:11

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2974.D
Lims ID: 240-169444-B-12
Client ID: MSA-SW40D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 17:11:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-017
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:29:38

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.932	5.920	0.012	100	783113	20.0	
*	2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	584505	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	270337	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	94	189561	20.9	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	223189	19.6	
$	6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	693083	17.7	
$	7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	224839	16.5	
	160 Chlorobenzene-d5 (IS)	117		0.680				ND	
	9 Dichlorodifluoromethane	85		2.031				ND	
	10 Chloromethane	50		2.268				ND	7
	11 Vinyl chloride	62		2.386				ND	
	13 Bromomethane	94		2.742				ND	
	14 Chloroethane	64		2.837				ND	
	16 Trichlorofluoromethane	101		3.074				ND	
	19 1,1-Dichloroethene	96		3.560				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
	21 Acetone	43		3.584				ND	7
	24 Carbon disulfide	76		3.774				ND	
	28 Methylene Chloride	84		3.987				ND	
	29 2-Methyl-2-propanol	59		4.035				ND	
	31 Methyl tert-butyl ether	73		4.201				ND	
	32 trans-1,2-Dichloroethene	96		4.213				ND	
	33 Chlorodifluoromethane TIC	51		4.221				ND	
	36 Vinyl acetate	43		4.545				ND	
	35 1,1-Dichloroethane	63		4.568				ND	
	37 Isopropyl ether	87		4.568				ND	
	39 Tert-butyl ethyl ether	59		4.853				ND	
	40 2-Butanone (MEK)	72		4.995				ND	
	41 cis-1,2-Dichloroethene	96		5.019				ND	
	42 2,2-Dichloropropane	97		5.031				ND	
	46 Chlorobromomethane	128		5.209				ND	
	48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	7
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

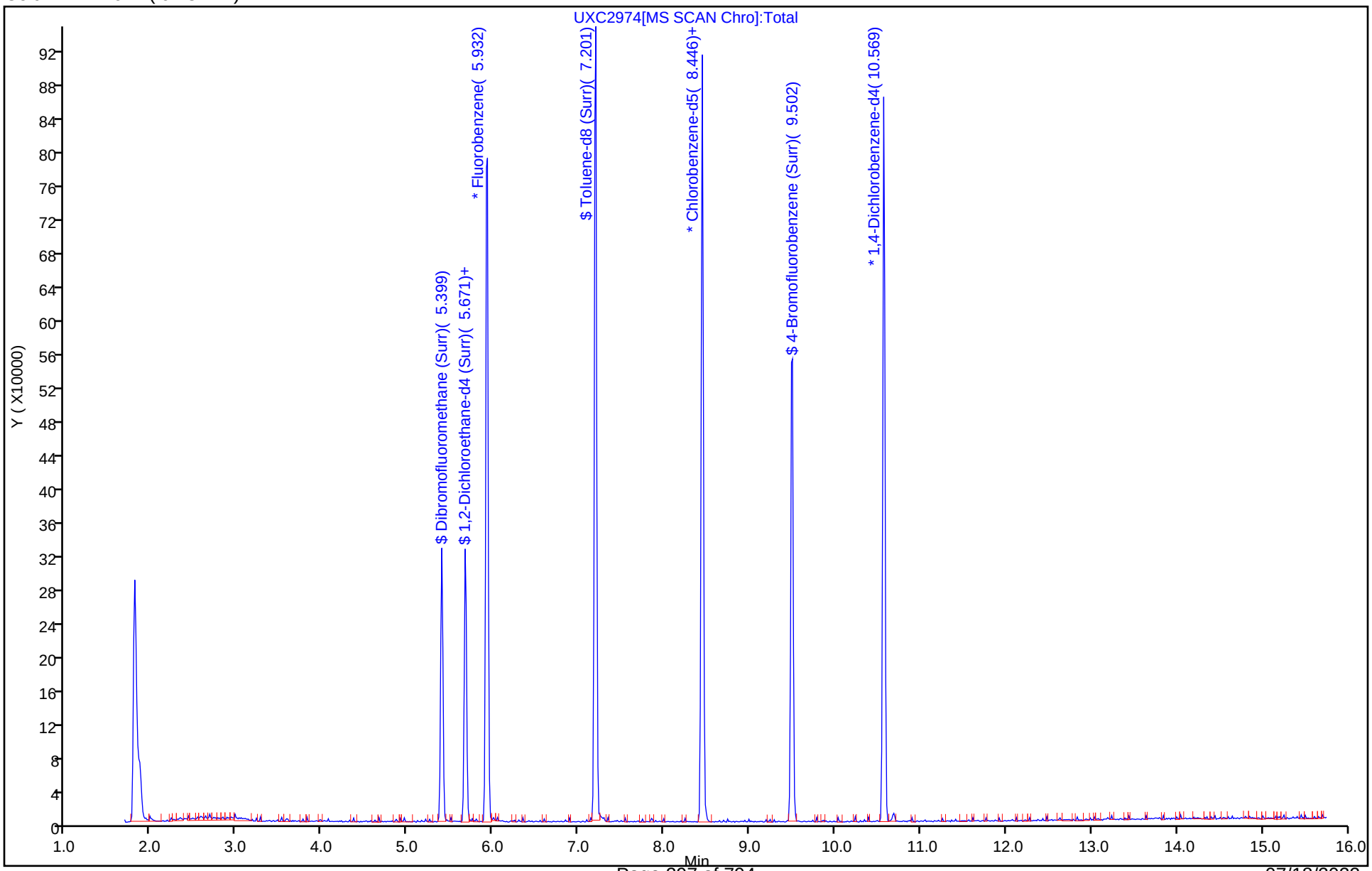
Report Date: 13-Jul-2022 08:29:38 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2974.D

Injection Date:	12-Jul-2022 17:11:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-12	Lab Sample ID:	240-169444-12	Worklist Smp#:	17
Client ID:	MSA-SW40D-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2974.D
Lims ID: 240-169444-B-12
Client ID: MSA-SW40D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 17:11:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-017
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:29:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.9	104.32
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.6	97.91
$ 6 Toluene-d8 (Surr)	20.0	17.7	88.70
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.5	82.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-070622 | Lab Sample ID: 240-169444-13

Matrix: Water | Lab File ID: UXC2975.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:34

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-070622 | Lab Sample ID: 240-169444-13

Matrix: Water | Lab File ID: UXC2975.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:34

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-070622 | Lab Sample ID: 240-169444-13

Matrix: Water | Lab File ID: UXC2975.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:34

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		62-137
2037-26-5	Toluene-d8 (Surr)	97		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41A-070622 | Lab Sample ID: 240-169444-13

Matrix: Water | Lab File ID: UXC2975.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:34

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2975.D
Lims ID: 240-169444-C-13
Client ID: MSA-SW41A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 17:34:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-018
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:30:44

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.932	5.920	0.012	99	774923	20.0	
*	2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	565040	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	259056	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.000	93	198365	22.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	237931	21.1	
$	6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	729387	19.3	
$	7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	93	233927	17.7	
	160 Chlorobenzene-d5 (IS)	117		0.680				ND	
	9 Dichlorodifluoromethane	85		2.031				ND	
	10 Chloromethane	50		2.268				ND	
	11 Vinyl chloride	62		2.386				ND	
	13 Bromomethane	94		2.742				ND	
	14 Chloroethane	64		2.837				ND	
	16 Trichlorofluoromethane	101		3.074				ND	
	19 1,1-Dichloroethene	96		3.560				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
	21 Acetone	43		3.584				ND	7
	24 Carbon disulfide	76		3.774				ND	
	28 Methylene Chloride	84		3.987				ND	
	29 2-Methyl-2-propanol	59		4.035				ND	
	31 Methyl tert-butyl ether	73		4.201				ND	
	32 trans-1,2-Dichloroethene	96		4.213				ND	
	33 Chlorodifluoromethane TIC	51		4.221				ND	
	36 Vinyl acetate	43		4.545				ND	
	35 1,1-Dichloroethane	63		4.568				ND	
	37 Isopropyl ether	87		4.568				ND	
	39 Tert-butyl ethyl ether	59		4.853				ND	
	40 2-Butanone (MEK)	72		4.995				ND	
	41 cis-1,2-Dichloroethene	96		5.019				ND	
	42 2,2-Dichloropropane	97		5.031				ND	
	46 Chlorobromomethane	128		5.209				ND	
	48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130	6.217	6.205	0.012	88	1815	0.1677	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

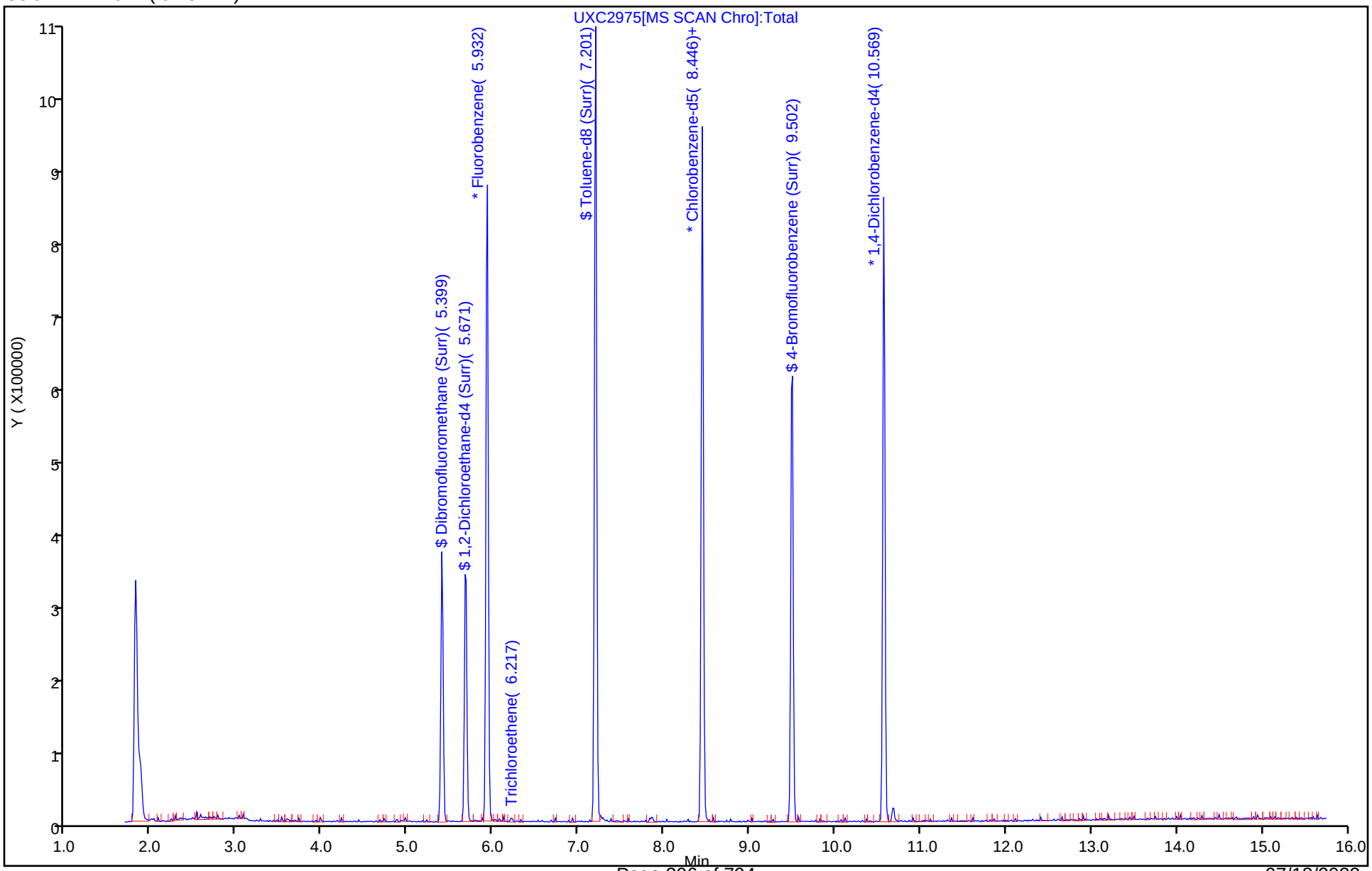
Report Date: 13-Jul-2022 08:30:44 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2975.D

Injection Date:	12-Jul-2022 17:34:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-13	Lab Sample ID:	240-169444-13	Worklist Smp#:	18
Client ID:	MSA-SW41A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2975.D
Lims ID: 240-169444-C-13
Client ID: MSA-SW41A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 17:34:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-018
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:30:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.1	110.31
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.1	105.48
$ 6 Toluene-d8 (Surr)	20.0	19.3	96.56
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.7	88.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-070622 | Lab Sample ID: 240-169444-14

Matrix: Water | Lab File ID: UXC2976.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:57

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-070622 | Lab Sample ID: 240-169444-14

Matrix: Water | Lab File ID: UXC2976.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:57

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-070622 | Lab Sample ID: 240-169444-14

Matrix: Water | Lab File ID: UXC2976.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:57

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41B-070622 | Lab Sample ID: 240-169444-14

Matrix: Water | Lab File ID: UXC2976.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 17:57

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2976.D
Lims ID: 240-169444-C-14
Client ID: MSA-SW41B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 17:57:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-019
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:31:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	100	789702	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	590587	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	276429	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	94	192269	21.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	231114	20.1	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	734641	18.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	93	229877	16.7	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43	3.584	3.584	0.000	97	7612	0.3843	
24 Carbon disulfide	76		3.774				ND	7
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

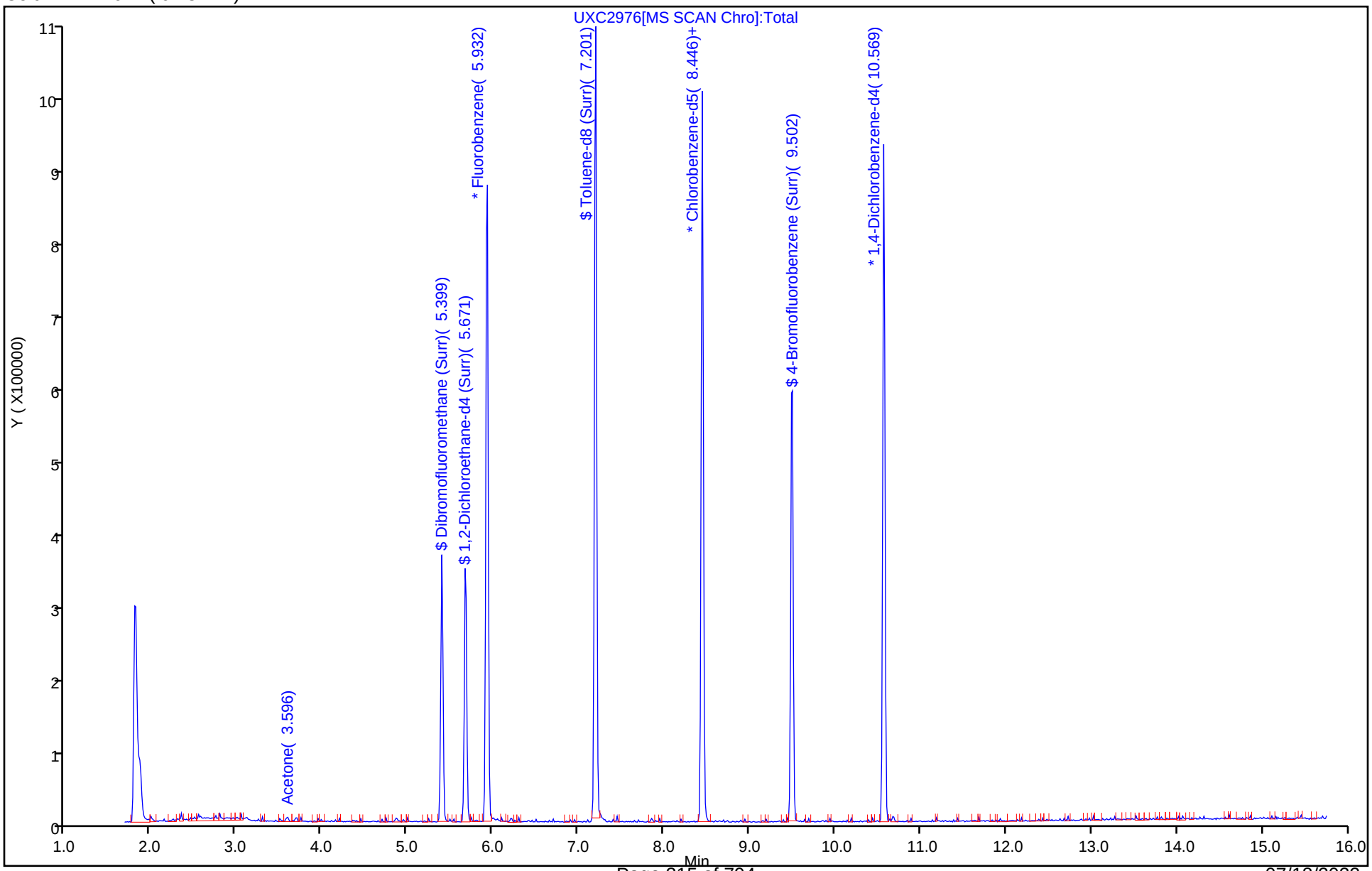
Report Date: 13-Jul-2022 08:31:36 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2976.D

Injection Date:	12-Jul-2022 17:57:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-14	Lab Sample ID:	240-169444-14	Worklist Smp#:	19
Client ID:	MSA-SW41B-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2976.D
Lims ID: 240-169444-C-14
Client ID: MSA-SW41B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 17:57:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-019
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:31:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.0	104.92
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.1	100.54
$ 6 Toluene-d8 (Surr)	20.0	18.6	93.05
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.7	83.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-070622 | Lab Sample ID: 240-169444-15

Matrix: Water | Lab File ID: UXC2977.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-070622 | Lab Sample ID: 240-169444-15

Matrix: Water | Lab File ID: UXC2977.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-070622 | Lab Sample ID: 240-169444-15

Matrix: Water | Lab File ID: UXC2977.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	106		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41C-070622 | Lab Sample ID: 240-169444-15

Matrix: Water | Lab File ID: UXC2977.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2977.D
Lims ID: 240-169444-C-15
Client ID: MSA-SW41C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 18:20:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-020
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:32:30

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.932	5.920	0.012	99	767592	20.0	
*	2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	566168	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	263072	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	93	188906	21.2	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	226477	20.3	
$	6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	687060	18.2	
$	7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	217817	16.5	
	160 Chlorobenzene-d5 (IS)	117		0.680				ND	
	9 Dichlorodifluoromethane	85		2.031				ND	
	10 Chloromethane	50		2.268				ND	
	11 Vinyl chloride	62		2.386				ND	
	13 Bromomethane	94		2.742				ND	
	14 Chloroethane	64		2.837				ND	
	16 Trichlorofluoromethane	101		3.074				ND	
	19 1,1-Dichloroethene	96		3.560				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
	21 Acetone	43		3.584				ND	7
	24 Carbon disulfide	76		3.774				ND	
	28 Methylene Chloride	84		3.987				ND	
	29 2-Methyl-2-propanol	59		4.035				ND	
	31 Methyl tert-butyl ether	73		4.201				ND	
	32 trans-1,2-Dichloroethene	96		4.213				ND	
	33 Chlorodifluoromethane TIC	51		4.221				ND	
	36 Vinyl acetate	43		4.545				ND	
	35 1,1-Dichloroethane	63		4.568				ND	
	37 Isopropyl ether	87		4.568				ND	
	39 Tert-butyl ethyl ether	59		4.853				ND	
	40 2-Butanone (MEK)	72		4.995				ND	
	41 cis-1,2-Dichloroethene	96		5.019				ND	
	42 2,2-Dichloropropane	97		5.031				ND	
	46 Chlorobromomethane	128		5.209				ND	
	48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

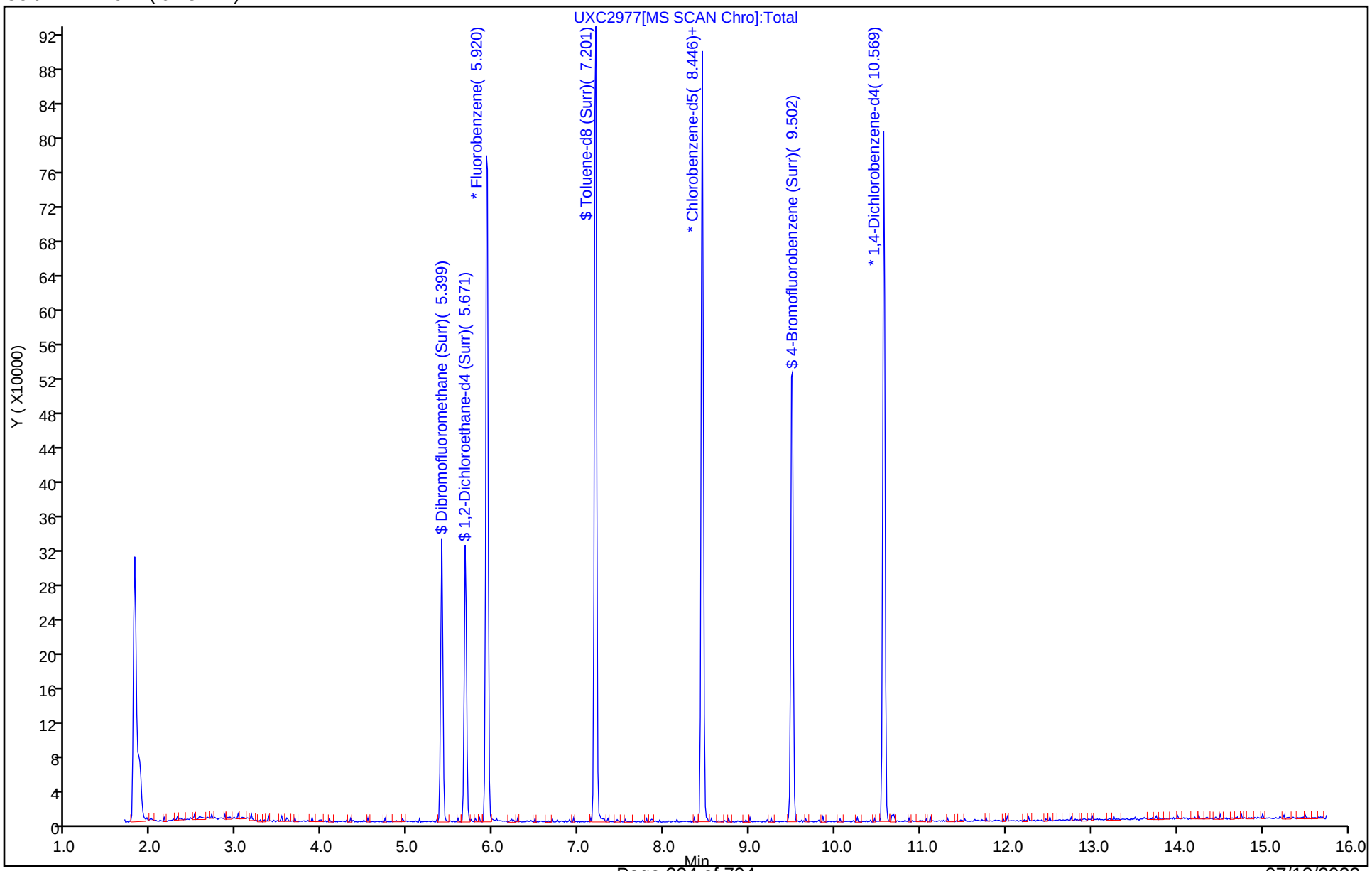
Report Date: 13-Jul-2022 08:32:31 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2977.D

Injection Date:	12-Jul-2022 18:20:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-15	Lab Sample ID:	240-169444-15	Worklist Smp#:	20
Client ID:	MSA-SW41C-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2977.D
Lims ID: 240-169444-C-15
Client ID: MSA-SW41C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 18:20:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-020
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:32:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.2	106.06
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.3	101.36
$ 6 Toluene-d8 (Surr)	20.0	18.2	90.77
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.5	82.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-070622 | Lab Sample ID: 240-169444-16

Matrix: Water | Lab File ID: UXC2978.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-070622 | Lab Sample ID: 240-169444-16

Matrix: Water | Lab File ID: UXC2978.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-070622 | Lab Sample ID: 240-169444-16

Matrix: Water | Lab File ID: UXC2978.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	94		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW41D-070622 | Lab Sample ID: 240-169444-16

Matrix: Water | Lab File ID: UXC2978.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:32

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2978.D
Lims ID: 240-169444-B-16
Client ID: MSA-SW41D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 18:43:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-021
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:32:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	772230	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	566792	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	262536	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	93	197272	22.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	230876	20.5	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	711116	18.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	221104	16.7	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	7
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

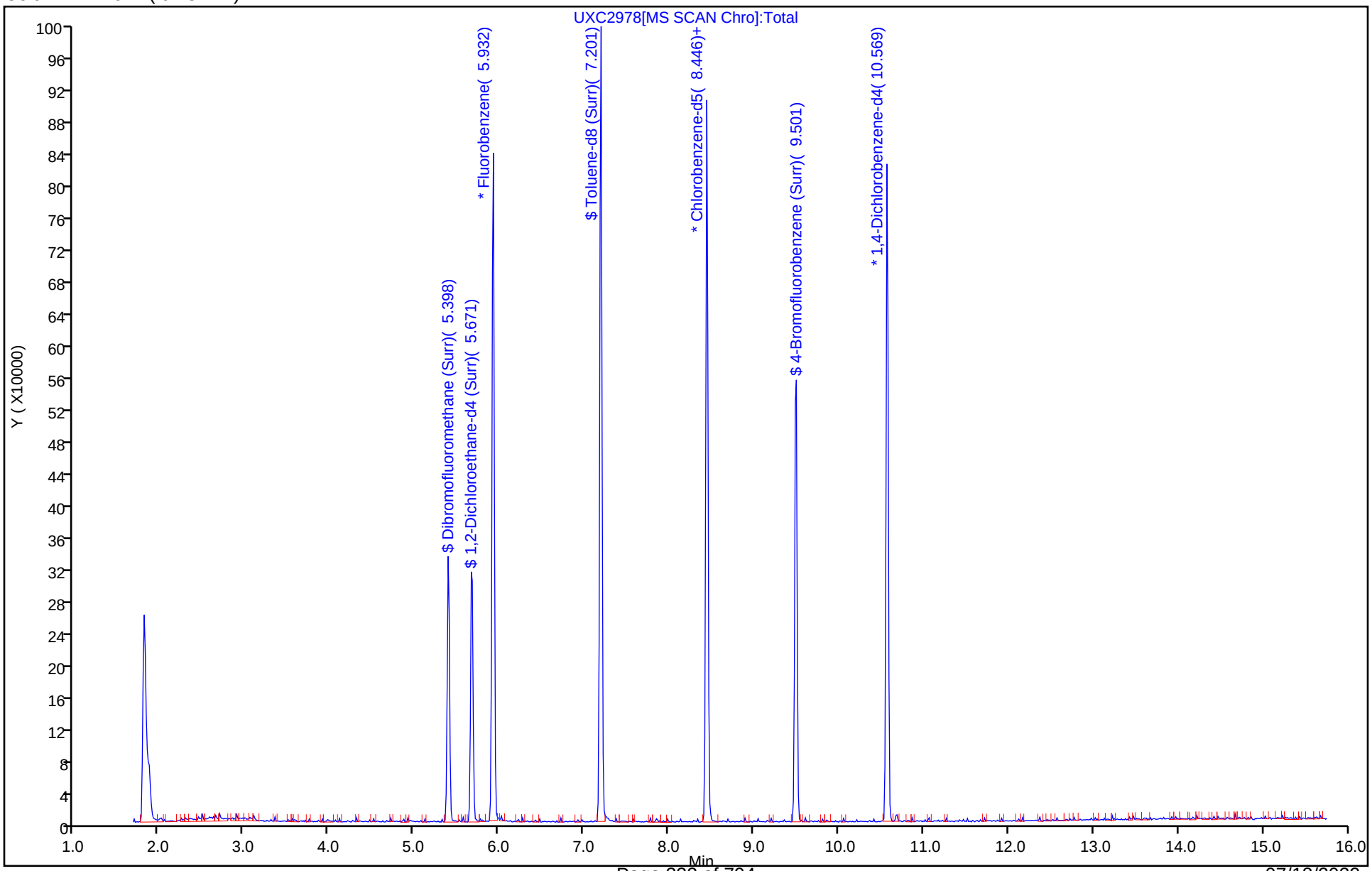
Report Date: 13-Jul-2022 08:32:51 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2978.D

Injection Date:	12-Jul-2022 18:43:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-16	Lab Sample ID:	240-169444-16	Worklist Smp#:	21
Client ID:	MSA-SW41D-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2978.D
Lims ID: 240-169444-B-16
Client ID: MSA-SW41D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 18:43:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-021
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:32:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.0	110.09
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.5	102.71
$ 6 Toluene-d8 (Surr)	20.0	18.8	93.85
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.7	83.54

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 | Lab Sample ID: 240-169444-17

Matrix: Water | Lab File ID: UXC2979.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 | Lab Sample ID: 240-169444-17

Matrix: Water | Lab File ID: UXC2979.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 | Lab Sample ID: 240-169444-17

Matrix: Water | Lab File ID: UXC2979.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	112		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		62-137
2037-26-5	Toluene-d8 (Surr)	92		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42A-070622 | Lab Sample ID: 240-169444-17

Matrix: Water | Lab File ID: UXC2979.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2979.D
Lims ID: 240-169444-C-17
Client ID: MSA-SW42A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 19:07:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-022
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:33:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	750823	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	568486	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	258867	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	94	194912	22.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	228204	20.9	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	699511	18.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	221729	16.7	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	7
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	7
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

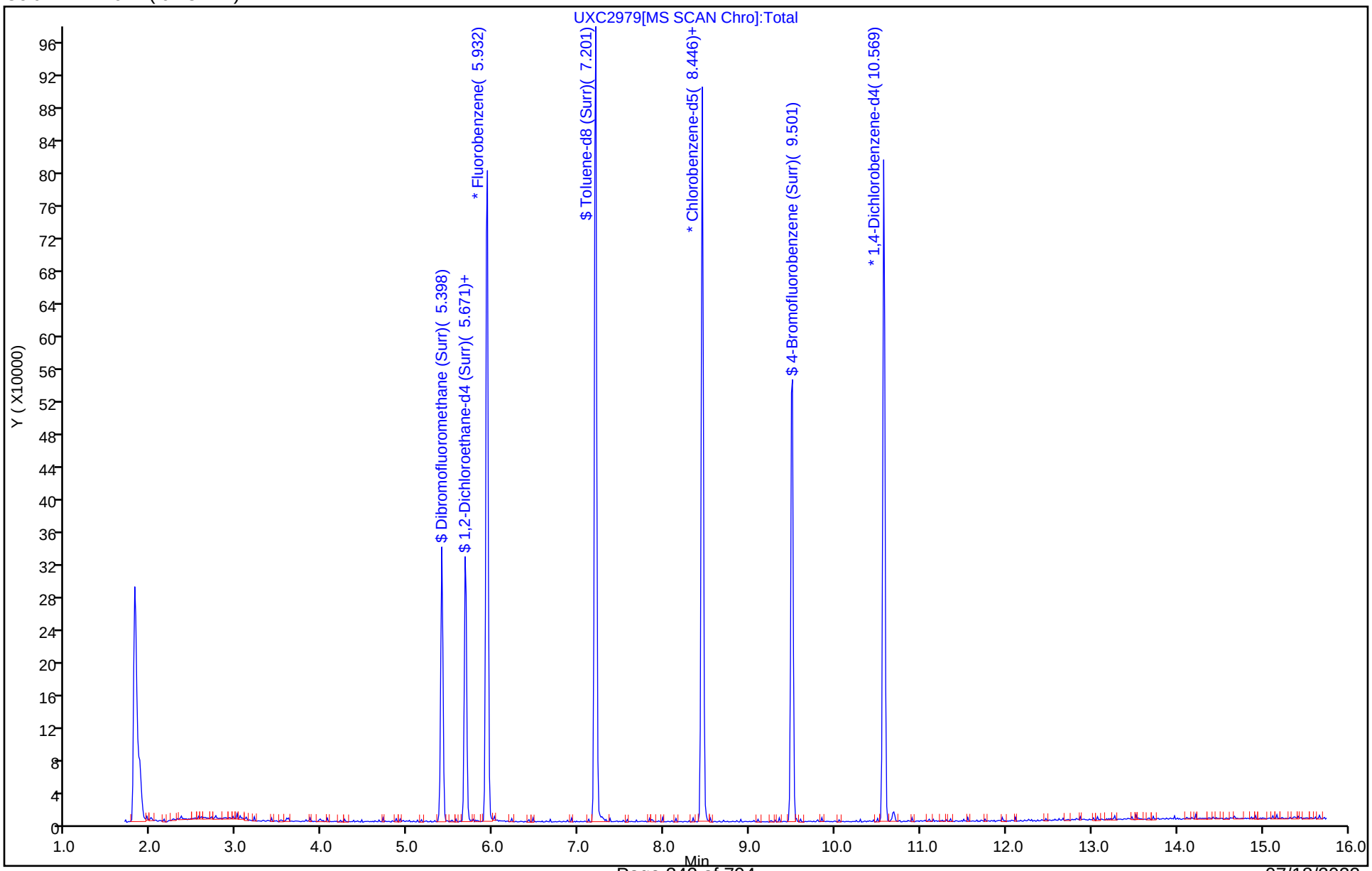
Report Date: 13-Jul-2022 08:33:11 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2979.D

Injection Date:	12-Jul-2022 19:07:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-17	Lab Sample ID:	240-169444-17	Worklist Smp#:	22
Client ID:	MSA-SW42A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2979.D
Lims ID: 240-169444-C-17
Client ID: MSA-SW42A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 19:07:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-022
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:33:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.4	111.87
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.9	104.42
$ 6 Toluene-d8 (Surr)	20.0	18.4	92.04
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.7	83.53

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-070622 | Lab Sample ID: 240-169444-18

Matrix: Water | Lab File ID: UXC2980.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:19

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:30

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-070622 | Lab Sample ID: 240-169444-18

Matrix: Water | Lab File ID: UXC2980.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:19

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:30

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-070622 | Lab Sample ID: 240-169444-18

Matrix: Water | Lab File ID: UXC2980.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:19

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:30

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42B-070622 | Lab Sample ID: 240-169444-18

Matrix: Water | Lab File ID: UXC2980.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:19

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:30

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2980.D
Lims ID: 240-169444-C-18
Client ID: MSA-SW42B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 19:30:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-023
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:33:34

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.932	5.920	0.012	99	741399	20.0	
*	2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	548501	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	238875	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	93	189014	22.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	227640	21.1	
$	6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	698930	19.1	
$	7 4-Bromofluorobenzene (Surr)	95	9.502	9.490	0.012	97	211841	16.5	
	160 Chlorobenzene-d5 (IS)	117		0.680				ND	
	9 Dichlorodifluoromethane	85		2.031				ND	
	10 Chloromethane	50		2.268				ND	
	11 Vinyl chloride	62		2.386				ND	
	13 Bromomethane	94		2.742				ND	
	14 Chloroethane	64		2.837				ND	
	16 Trichlorofluoromethane	101		3.074				ND	
	19 1,1-Dichloroethene	96		3.560				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
	21 Acetone	43		3.584				ND	7
	24 Carbon disulfide	76		3.774				ND	
	28 Methylene Chloride	84		3.987				ND	
	29 2-Methyl-2-propanol	59		4.035				ND	
	31 Methyl tert-butyl ether	73		4.201				ND	
	32 trans-1,2-Dichloroethene	96		4.213				ND	
	33 Chlorodifluoromethane TIC	51		4.221				ND	
	36 Vinyl acetate	43		4.545				ND	
	35 1,1-Dichloroethane	63		4.568				ND	
	37 Isopropyl ether	87		4.568				ND	
	39 Tert-butyl ethyl ether	59		4.853				ND	
	40 2-Butanone (MEK)	72		4.995				ND	
	41 cis-1,2-Dichloroethene	96		5.019				ND	
	42 2,2-Dichloropropane	97		5.031				ND	
	46 Chlorobromomethane	128		5.209				ND	
	48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	7
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

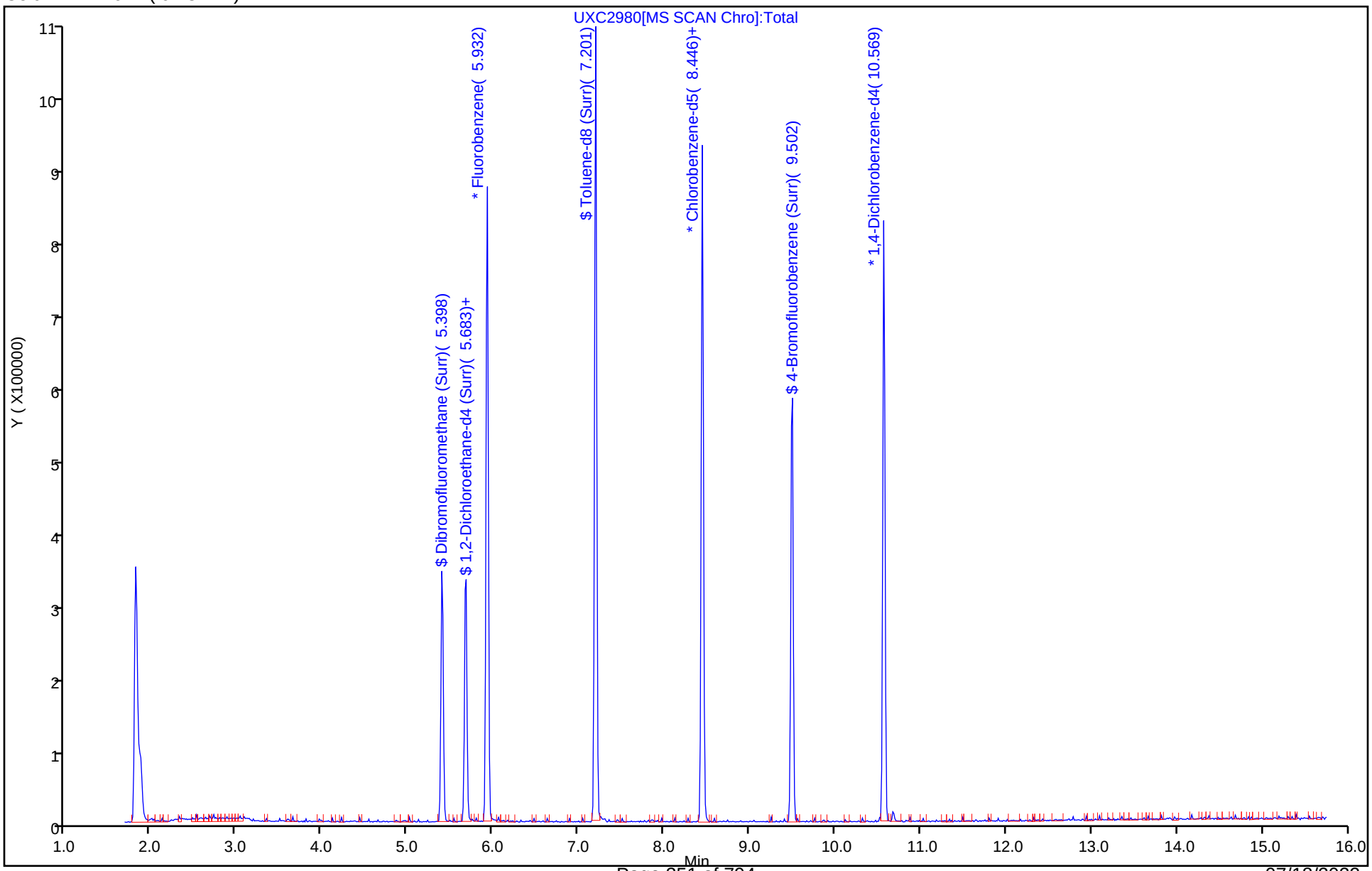
Report Date: 13-Jul-2022 08:33:34 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2980.D

Injection Date:	12-Jul-2022 19:30:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-18	Lab Sample ID:	240-169444-18	Worklist Smp#:	23
Client ID:	MSA-SW42B-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2980.D
Lims ID: 240-169444-C-18
Client ID: MSA-SW42B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 19:30:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-023
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:33:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.0	109.87
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.1	105.48
$ 6 Toluene-d8 (Surr)	20.0	19.1	95.32
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.5	82.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-070622 | Lab Sample ID: 240-169444-19

Matrix: Water | Lab File ID: UXC2981.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:53

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-070622 | Lab Sample ID: 240-169444-19

Matrix: Water | Lab File ID: UXC2981.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:53

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-070622 | Lab Sample ID: 240-169444-19

Matrix: Water | Lab File ID: UXC2981.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:53

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	111		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42C-070622 | Lab Sample ID: 240-169444-19

Matrix: Water | Lab File ID: UXC2981.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:22

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 19:53

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2981.D
Lims ID: 240-169444-C-19
Client ID: MSA-SW42C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 19:53:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-024
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:33:50

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.932	5.920	0.012	99	760038	20.0	
*	2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	568005	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	260888	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	94	196347	22.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	228712	20.7	
$	6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	708211	18.7	
$	7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	222305	16.8	
	160 Chlorobenzene-d5 (IS)	117		0.680				ND	
	9 Dichlorodifluoromethane	85		2.031				ND	
	10 Chloromethane	50		2.268				ND	
	11 Vinyl chloride	62		2.386				ND	
	13 Bromomethane	94		2.742				ND	
	14 Chloroethane	64		2.837				ND	
	16 Trichlorofluoromethane	101		3.074				ND	
	19 1,1-Dichloroethene	96		3.560				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
	21 Acetone	43		3.584				ND	7
	24 Carbon disulfide	76		3.774				ND	
	28 Methylene Chloride	84		3.987				ND	
	29 2-Methyl-2-propanol	59		4.035				ND	
	31 Methyl tert-butyl ether	73		4.201				ND	
	32 trans-1,2-Dichloroethene	96		4.213				ND	
	33 Chlorodifluoromethane TIC	51		4.221				ND	
	36 Vinyl acetate	43		4.545				ND	
	35 1,1-Dichloroethane	63		4.568				ND	
	37 Isopropyl ether	87		4.568				ND	
	39 Tert-butyl ethyl ether	59		4.853				ND	
	40 2-Butanone (MEK)	72		4.995				ND	
	41 cis-1,2-Dichloroethene	96		5.019				ND	
	42 2,2-Dichloropropane	97		5.031				ND	
	46 Chlorobromomethane	128		5.209				ND	
	48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

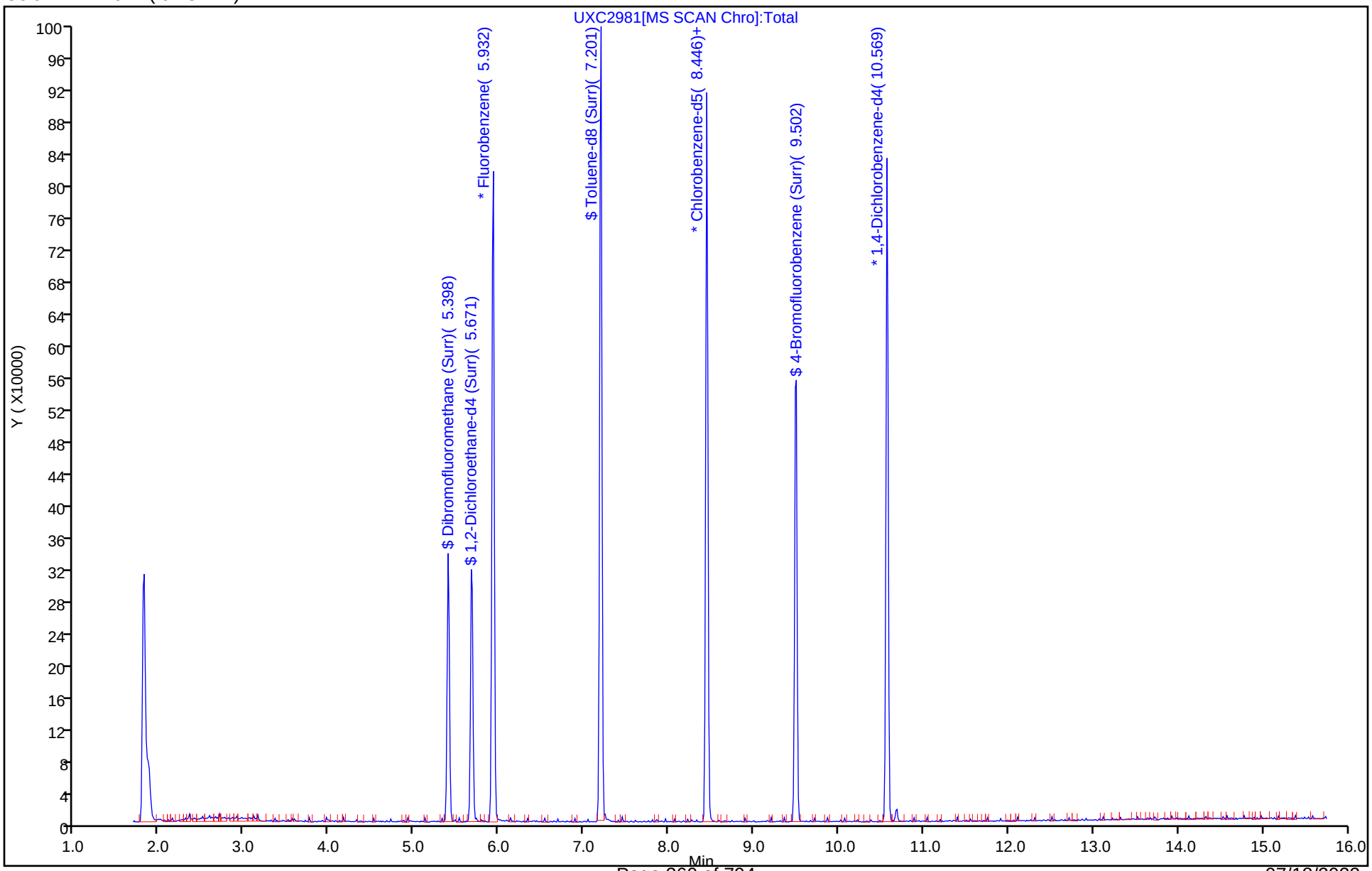
Report Date: 13-Jul-2022 08:33:50 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2981.D

Injection Date:	12-Jul-2022 19:53:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-19	Lab Sample ID:	240-169444-19	Worklist Smp#:	24
Client ID:	MSA-SW42C-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2981.D
Lims ID: 240-169444-C-19
Client ID: MSA-SW42C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 19:53:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-024
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:33:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.3	111.33
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.38
$ 6 Toluene-d8 (Surr)	20.0	18.7	93.27
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.8	83.82

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-070622 | Lab Sample ID: 240-169444-20

Matrix: Water | Lab File ID: UXC2982.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:26

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:16

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-070622 | Lab Sample ID: 240-169444-20

Matrix: Water | Lab File ID: UXC2982.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:26

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:16

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-070622 | Lab Sample ID: 240-169444-20

Matrix: Water | Lab File ID: UXC2982.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:26

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:16

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	111		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		62-137
2037-26-5	Toluene-d8 (Surr)	96		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW42D-070622 | Lab Sample ID: 240-169444-20

Matrix: Water | Lab File ID: UXC2982.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:26

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:16

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2982.D
Lims ID: 240-169444-C-20
Client ID: MSA-SW42D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 20:16:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-025
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:34:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	734296	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	536694	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	247476	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	93	189330	22.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	225048	21.1	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	689584	19.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	93	220759	17.6	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	7
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

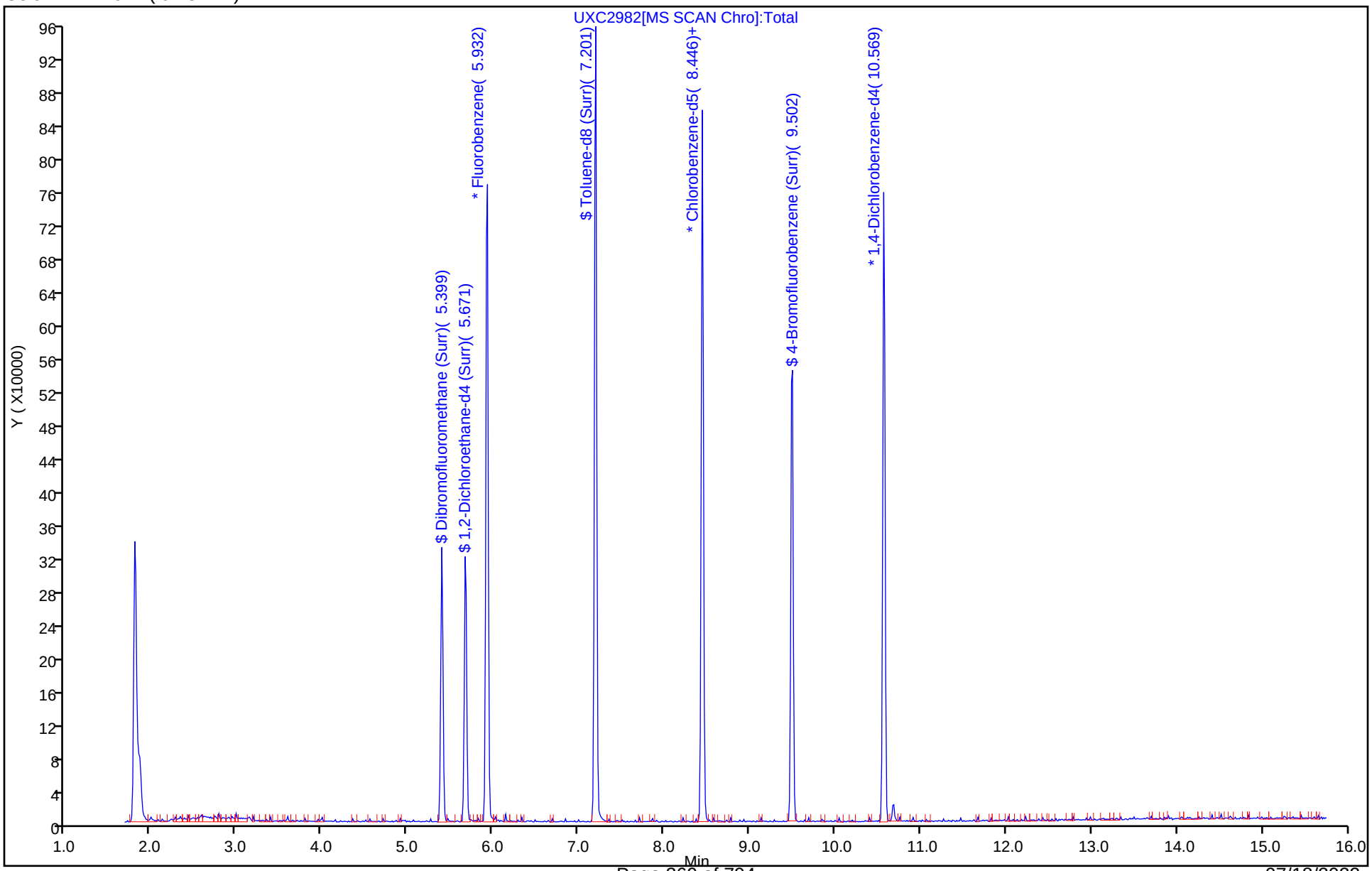
Report Date: 13-Jul-2022 08:34:16 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2982.D

Injection Date:	12-Jul-2022 20:16:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-20	Lab Sample ID:	240-169444-20	Worklist Smp#:	25
Client ID:	MSA-SW42D-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2982.D
Lims ID: 240-169444-C-20
Client ID: MSA-SW42D-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 20:16:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-025
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 08:27:16 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:34:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.2	111.11
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.1	105.29
$ 6 Toluene-d8 (Surr)	20.0	19.2	96.11
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.6	88.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-070622 | Lab Sample ID: 240-169444-21

Matrix: Water | Lab File ID: UXC2983.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:39

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-070622 | Lab Sample ID: 240-169444-21

Matrix: Water | Lab File ID: UXC2983.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:39

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-070622 | Lab Sample ID: 240-169444-21

Matrix: Water | Lab File ID: UXC2983.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:39

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		56-136
1868-53-7	Dibromofluoromethane (Surr)	112		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		62-137
2037-26-5	Toluene-d8 (Surr)	96		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43A-070622 | Lab Sample ID: 240-169444-21

Matrix: Water | Lab File ID: UXC2983.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 20:39

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2983.D
Lims ID: 240-169444-C-21
Client ID: MSA-SW43A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 20:39:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-026
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:46:14 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:35:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	749074	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	541892	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	250793	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	94	193823	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	235141	21.6	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	696288	19.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	93	219168	17.3	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50	2.280	2.268	0.012	31	2215	0.2246	
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	7
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

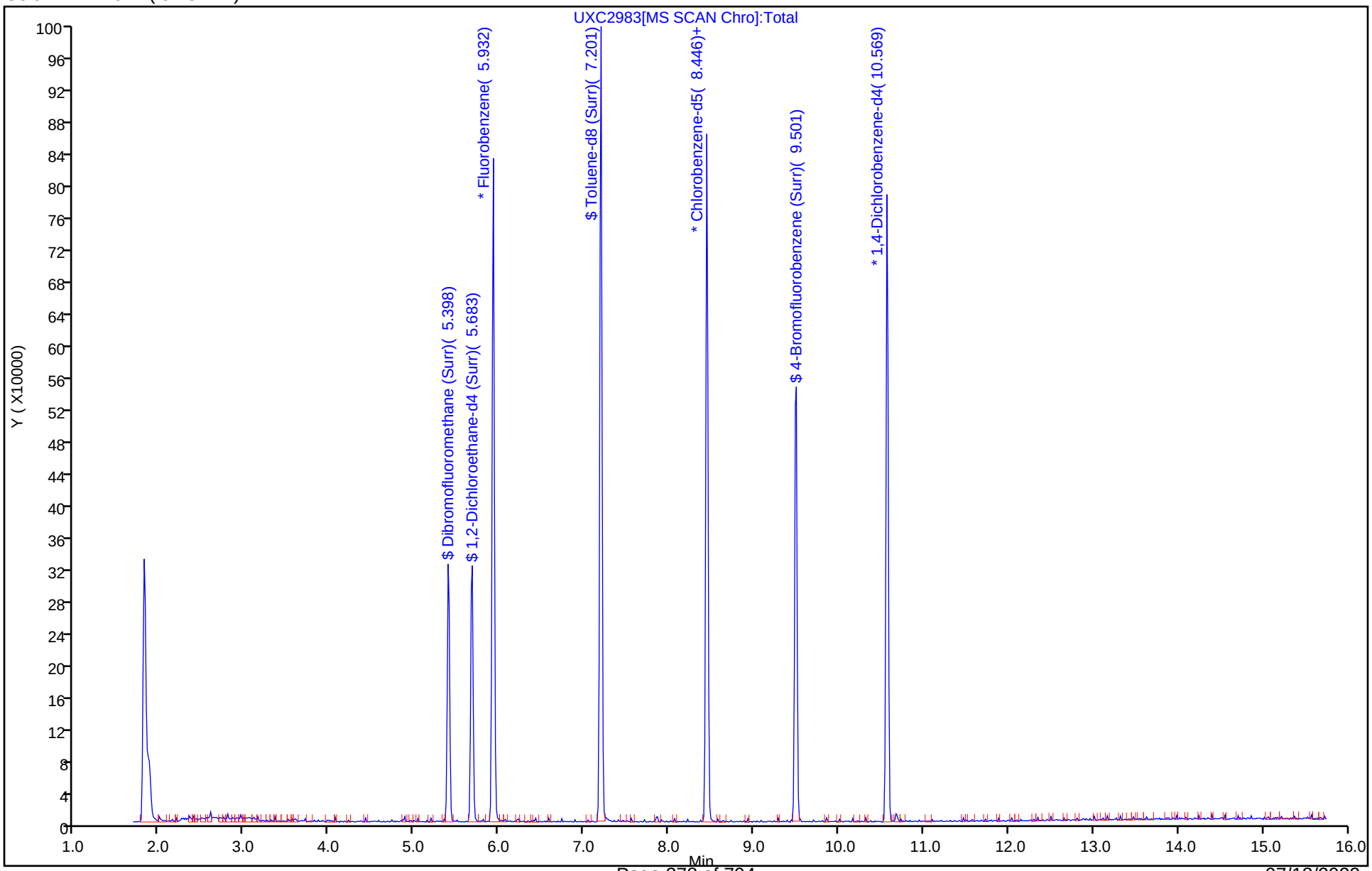
Report Date: 13-Jul-2022 09:46:14 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2983.D

Injection Date:	12-Jul-2022 20:39:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-21	Lab Sample ID:	240-169444-21	Worklist Smp#:	26
Client ID:	MSA-SW43A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2983.D
Lims ID: 240-169444-C-21
Client ID: MSA-SW43A-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 20:39:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-026
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:46:14 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:35:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.3	111.51
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.6	107.84
$ 6 Toluene-d8 (Surr)	20.0	19.2	96.11
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.3	86.62

Eurofins Canton

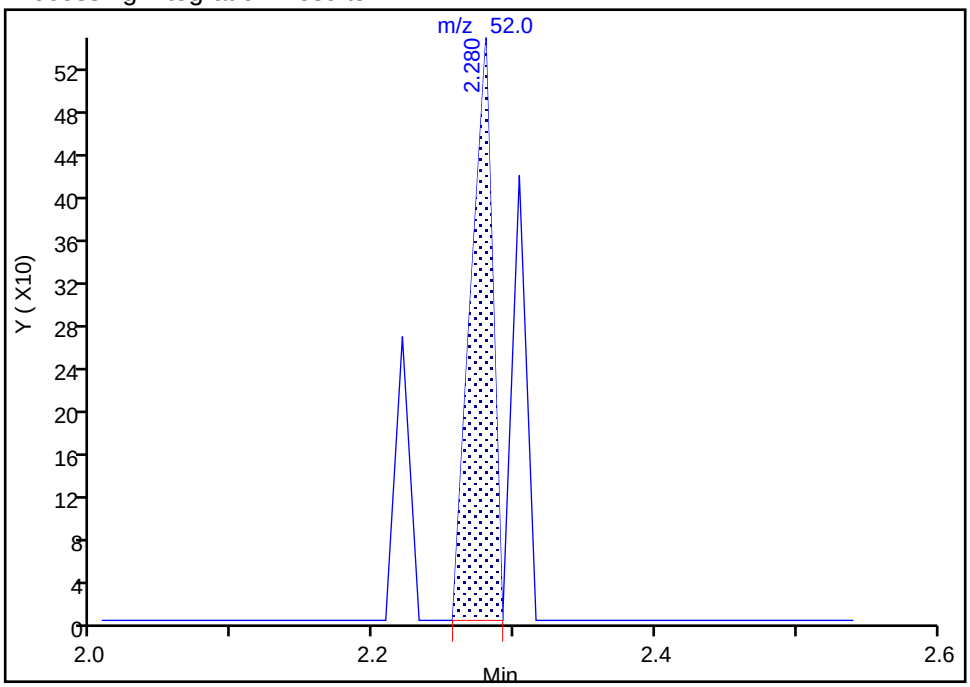
Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2983.D
Injection Date: 12-Jul-2022 20:39:30 Instrument ID: A3UX15
Lims ID: 240-169444-C-21 Lab Sample ID: 240-169444-21
Client ID: MSA-SW43A-070622
Operator ID: 001904 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 2

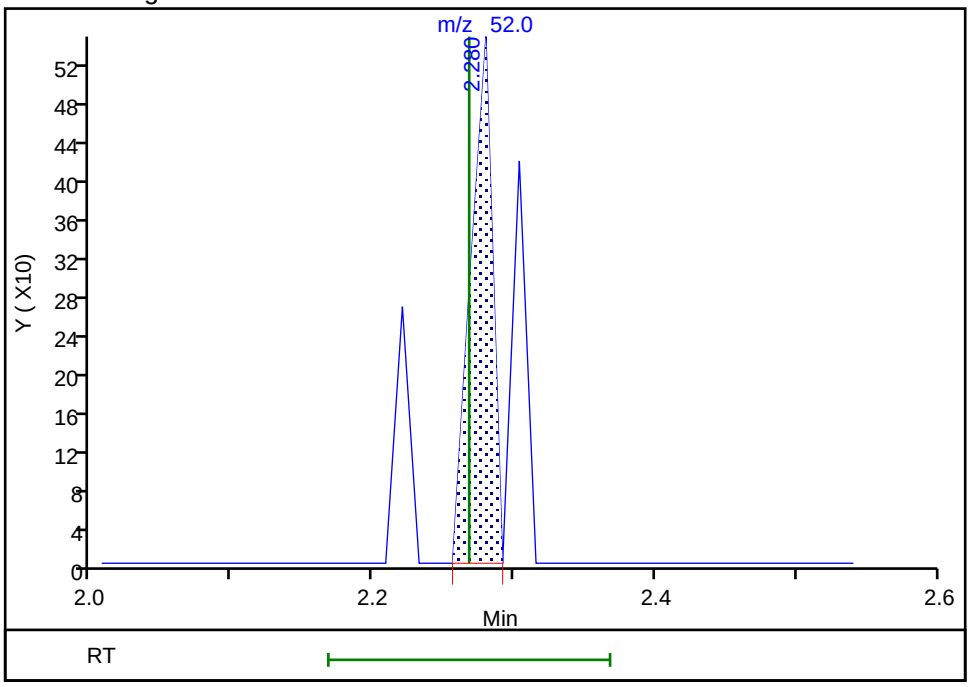
RT: 2.28
Area: 586
Amount: 0.224647
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 2.28
Area: 586
Amount: 0.224647
Amount Units: ug/l



Reviewer: MAW1, 13-Jul-2022 08:35:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-070622 | Lab Sample ID: 240-169444-22

Matrix: Water | Lab File ID: UXC2984.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-070622 | Lab Sample ID: 240-169444-22

Matrix: Water | Lab File ID: UXC2984.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-070622 | Lab Sample ID: 240-169444-22

Matrix: Water | Lab File ID: UXC2984.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	107		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43B-070622 | Lab Sample ID: 240-169444-22

Matrix: Water | Lab File ID: UXC2984.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2984.D
Lims ID: 240-169444-C-22
Client ID: MSA-SW43B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 21:02:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-027
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:46:59 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:36:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	100	793093	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	595433	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	276105	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	93	196956	21.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	232844	20.2	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	724972	18.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	95	229003	16.5	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50	2.268	2.268	0.000	55	2717	0.2603	
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

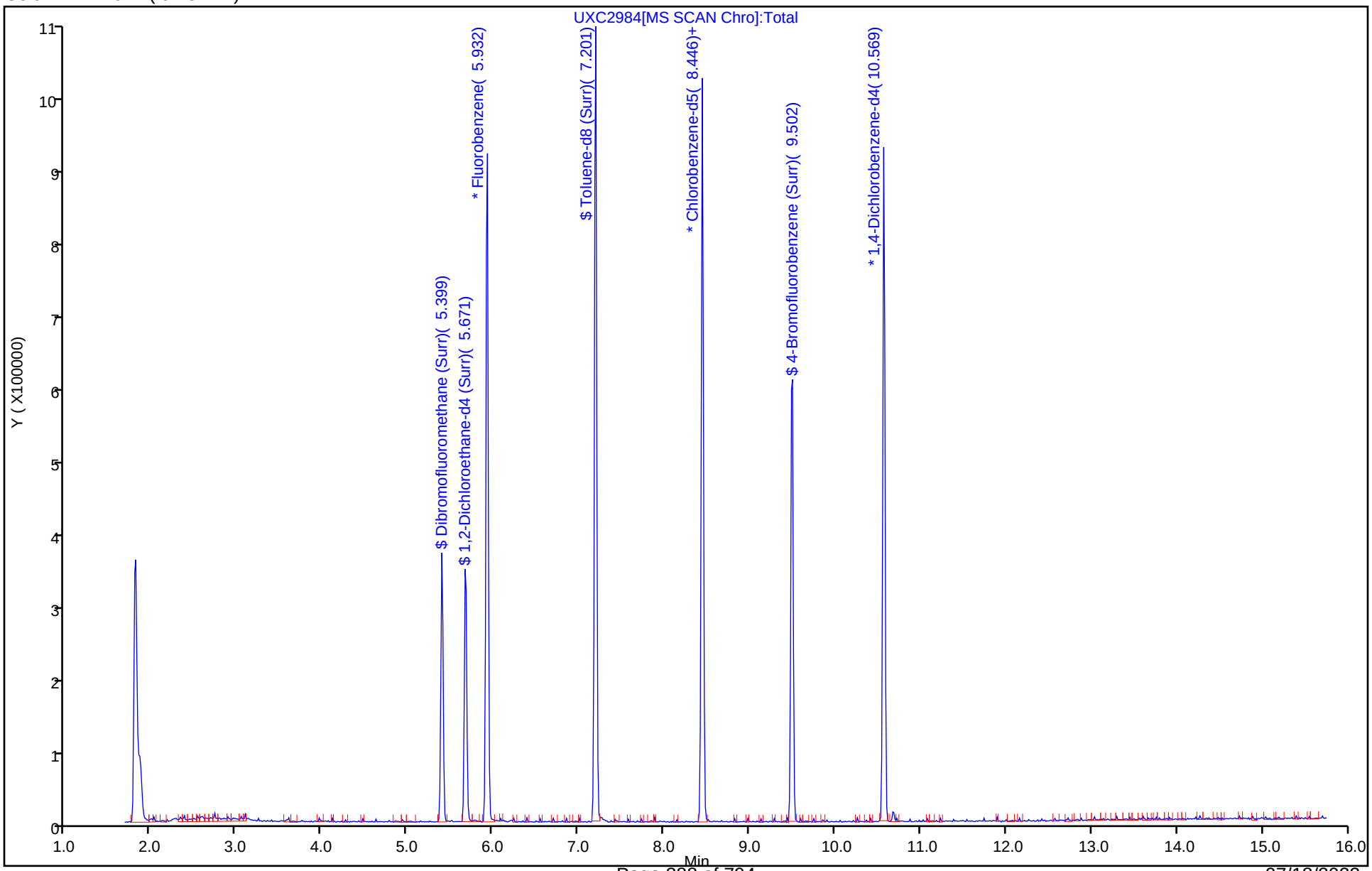
Report Date: 13-Jul-2022 09:46:59 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2984.D

Injection Date:	12-Jul-2022 21:02:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-22	Lab Sample ID:	240-169444-22	Worklist Smp#:	27
Client ID:	MSA-SW43B-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2984.D
Lims ID: 240-169444-C-22
Client ID: MSA-SW43B-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 21:02:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-027
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:46:59 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:36:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.4	107.02
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.2	100.86
$ 6 Toluene-d8 (Surr)	20.0	18.2	91.07
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.5	82.37

Manual Integration/User Assign Peak Report

Eurofins Canton

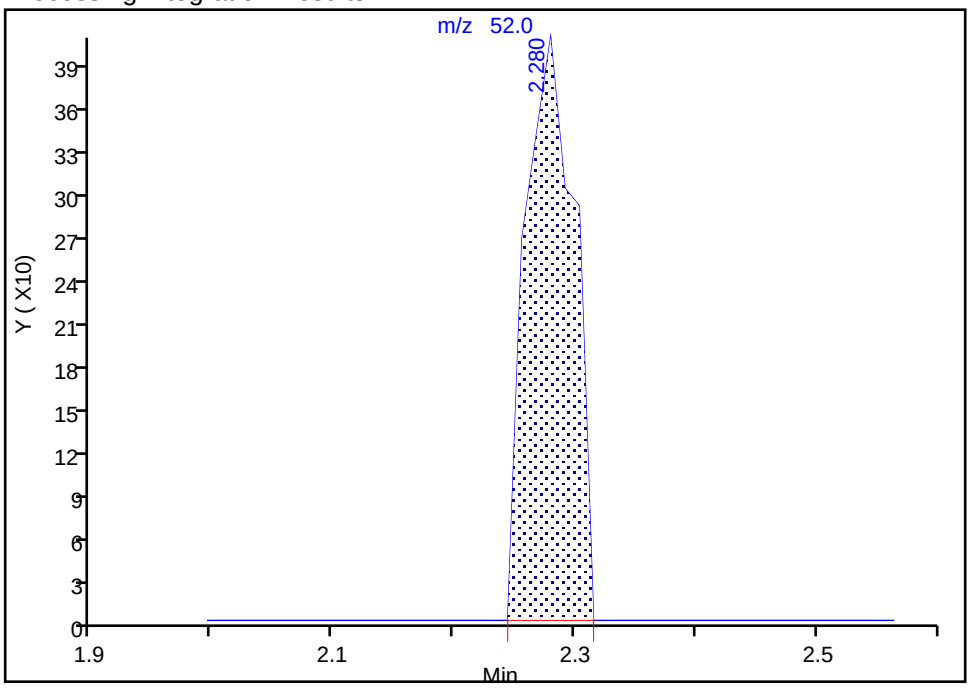
Data File:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2984.D				
Injection Date:	12-Jul-2022 21:02:30	Instrument ID:	A3UX15		
Lims ID:	240-169444-C-22	Lab Sample ID:	240-169444-22		
Client ID:	MSA-SW43B-070622				
Operator ID:	001904	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Signal: 2

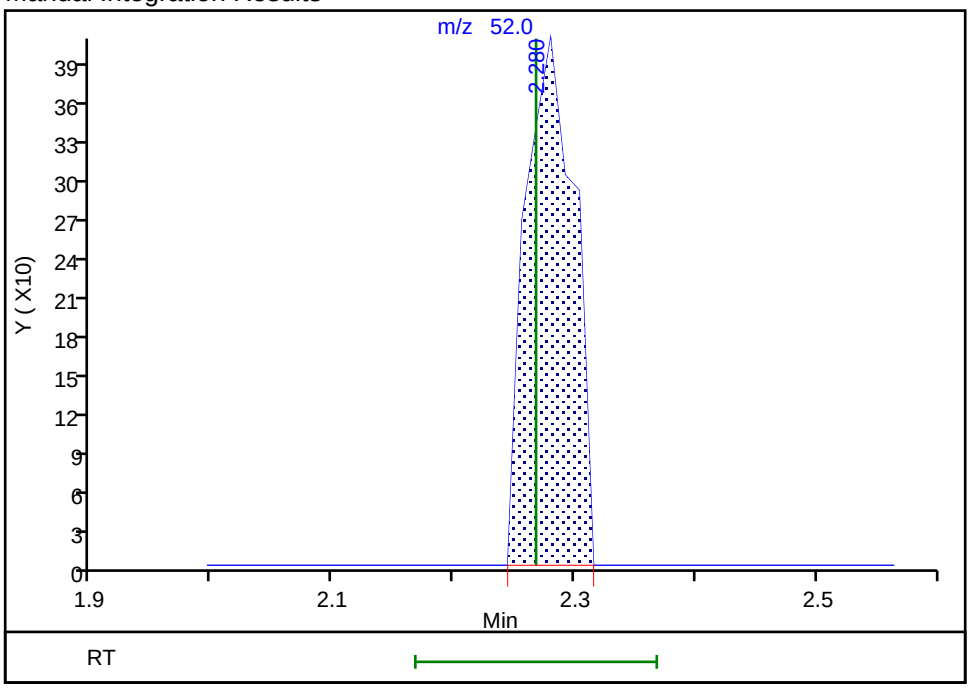
Processing Integration Results

RT: 2.28
Area: 1138
Amount: 0.260265
Amount Units: ug/l



Manual Integration Results

RT: 2.28
Area: 1138
Amount: 0.260265
Amount Units: ug/l



Reviewer: MAW1, 13-Jul-2022 08:36:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-070622 | Lab Sample ID: 240-169444-23

Matrix: Water | Lab File ID: UXC2985.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:25

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-070622 | Lab Sample ID: 240-169444-23

Matrix: Water | Lab File ID: UXC2985.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:25

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-070622 | Lab Sample ID: 240-169444-23

Matrix: Water | Lab File ID: UXC2985.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:25

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	112		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-070622 | Lab Sample ID: 240-169444-23

Matrix: Water | Lab File ID: UXC2985.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:08

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 21:25

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2985.D
Lims ID: 240-169444-B-23
Client ID: MSA-SW43C-070622
Sample Type: Client
Inject. Date: 12-Jul-2022 21:25:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-028
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 09:47:27 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:39:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	751265	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	558570	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	263441	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	94	196019	22.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	99	230596	21.1	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	706214	18.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	93	223562	17.1	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.031				ND	
10 Chloromethane	50		2.268				ND	U
11 Vinyl chloride	62		2.386				ND	
13 Bromomethane	94		2.742				ND	
14 Chloroethane	64		2.837				ND	
16 Trichlorofluoromethane	101		3.074				ND	
19 1,1-Dichloroethene	96		3.560				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.035				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
35 1,1-Dichloroethane	63		4.568				ND	
37 Isopropyl ether	87		4.568				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.422				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.730				ND	
57 Tert-amyl methyl ether	73		5.778				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.489				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.248				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.746				ND	
78 2-Hexanone	43		7.746				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.003				ND	
89 Styrene	104		9.015				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.596				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.667				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.916				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.509				ND	
110 1,4-Dichlorobenzene	146		10.592				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.936				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

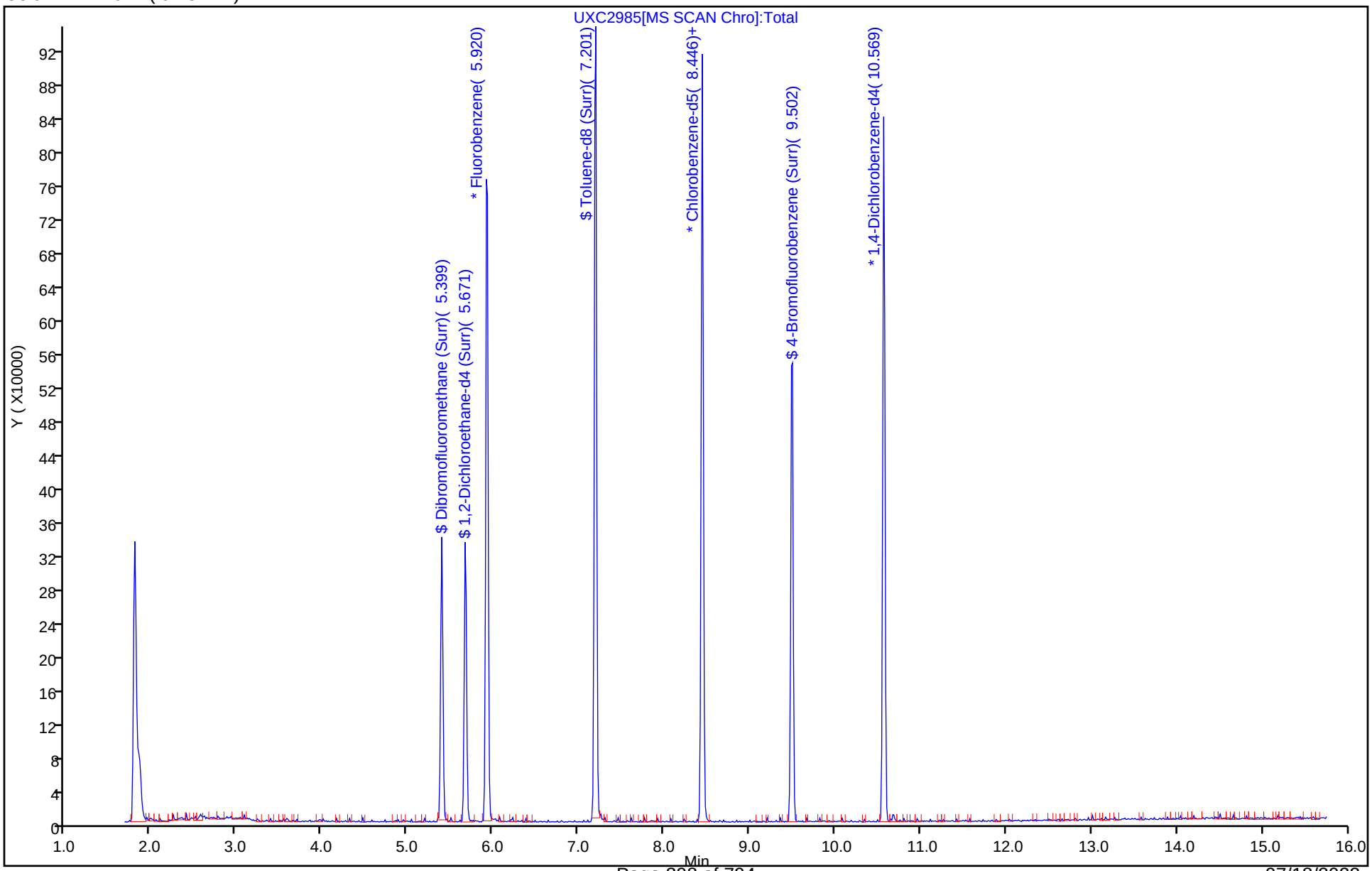
Report Date: 13-Jul-2022 09:47:28 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2985.D

Injection Date:	12-Jul-2022 21:25:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-23	Lab Sample ID:	240-169444-23	Worklist Smp#:	28
Client ID:	MSA-SW43C-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2985.D				
Lims ID:	240-169444-B-23				
Client ID:	MSA-SW43C-070622				
Sample Type:	Client				
Inject. Date:	12-Jul-2022 21:25:30	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0120266-028				
Operator ID:	001904	Instrument ID:	A3UX15		
Method:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	13-Jul-2022 09:47:27	Calib Date:	17-Jun-2022 22:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1656				

First Level Reviewer: MAW1 Date: 13-Jul-2022 08:39:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.5	112.44
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.1	105.45
$ 6 Toluene-d8 (Surr)	20.0	18.9	94.57
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.1	85.72

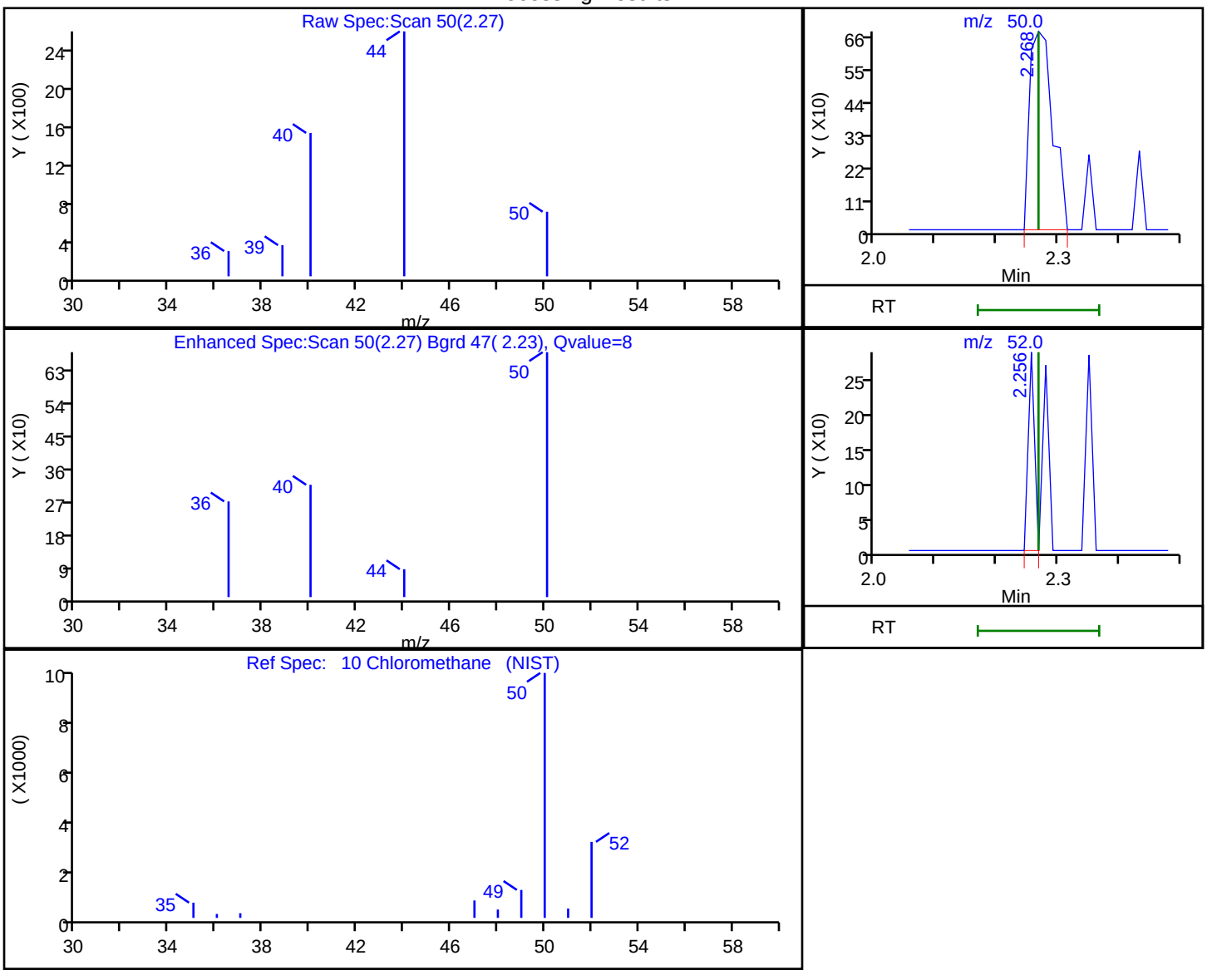
User Disabled Compound Report

Eurofins Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2985.D				
Injection Date:	12-Jul-2022 21:25:30	Instrument ID:	A3UX15		
Lims ID:	240-169444-B-23	Lab Sample ID:	240-169444-23		
Client ID:	MSA-SW43C-070622				
Operator ID:	001904	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	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
2.27	50.00	1780	0.180002
2.26	52.00	205	

Reviewer: MAW1, 13-Jul-2022 09:47:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43D-070622 | Lab Sample ID: 240-169444-24

Matrix: Water | Lab File ID: UXC2994.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:11

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:12

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43D-070622 | Lab Sample ID: 240-169444-24

Matrix: Water | Lab File ID: UXC2994.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:11

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:12

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43D-070622 | Lab Sample ID: 240-169444-24

Matrix: Water | Lab File ID: UXC2994.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:11

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:12

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		56-136
1868-53-7	Dibromofluoromethane (Surr)	102		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		62-137
2037-26-5	Toluene-d8 (Surr)	89		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43D-070622 | Lab Sample ID: 240-169444-24

Matrix: Water | Lab File ID: UXC2994.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:11

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:12

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2994.D
Lims ID: 240-169444-C-24
Client ID: MSA-SW43D-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 16:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-011
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:57:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	813070	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	603396	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	284243	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	94	193091	20.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	231280	19.5	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	714481	17.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	230618	16.4	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.043				ND	
10 Chloromethane	50		2.268				ND	
11 Vinyl chloride	62		2.387				ND	
13 Bromomethane	94		2.754				ND	
14 Chloroethane	64		2.849				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.561				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	7
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.569				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.731				ND	7
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.490				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.747				ND	
78 2-Hexanone	43		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.016				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.597				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.937				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	81	1652	0.5068	
119 Naphthalene	128		12.715				ND	7
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

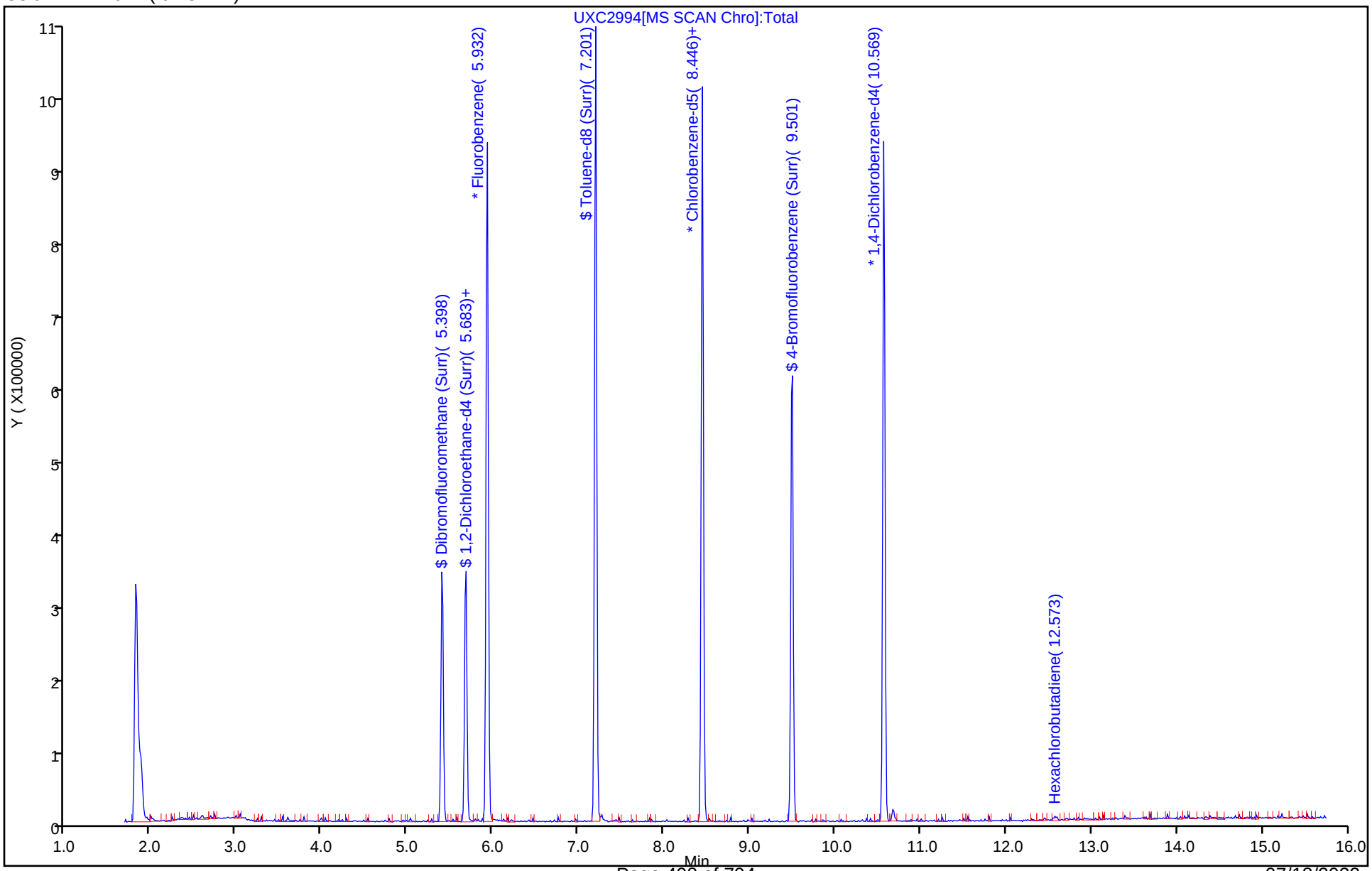
Report Date: 15-Jul-2022 08:57:22 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2994.D

Injection Date:	13-Jul-2022 16:12:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-24	Lab Sample ID:	240-169444-24	Worklist Smp#:	11
Client ID:	MSA-SW43D-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2994.D
Lims ID: 240-169444-C-24
Client ID: MSA-SW43D-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 16:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-011
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:57:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.5	102.34
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.5	97.72
$ 6 Toluene-d8 (Surr)	20.0	17.7	88.57
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.4	81.85

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-070622 | Lab Sample ID: 240-169444-25

Matrix: Water | Lab File ID: UXC2995.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:35

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-070622 | Lab Sample ID: 240-169444-25

Matrix: Water | Lab File ID: UXC2995.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:35

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-070622 | Lab Sample ID: 240-169444-25

Matrix: Water | Lab File ID: UXC2995.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:35

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		62-137
2037-26-5	Toluene-d8 (Surr)	95		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: TB-070622 | Lab Sample ID: 240-169444-25

Matrix: Water | Lab File ID: UXC2995.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:35

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2995.D
Lims ID: 240-169444-B-25
Client ID: TB-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 16:35:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-012
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:57:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	805972	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	603541	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	276522	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	94	205343	22.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	243086	20.7	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	764522	19.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	97	248345	17.6	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.043				ND	
10 Chloromethane	50		2.268				ND	
11 Vinyl chloride	62		2.387				ND	
13 Bromomethane	94		2.754				ND	
14 Chloroethane	64		2.849				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.561				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76	3.774	3.774	0.000	75	5051	0.2141	
28 Methylene Chloride	84		3.987				ND	7
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.569				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.731				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.490				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.747				ND	
78 2-Hexanone	43		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.016				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.597				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.937				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

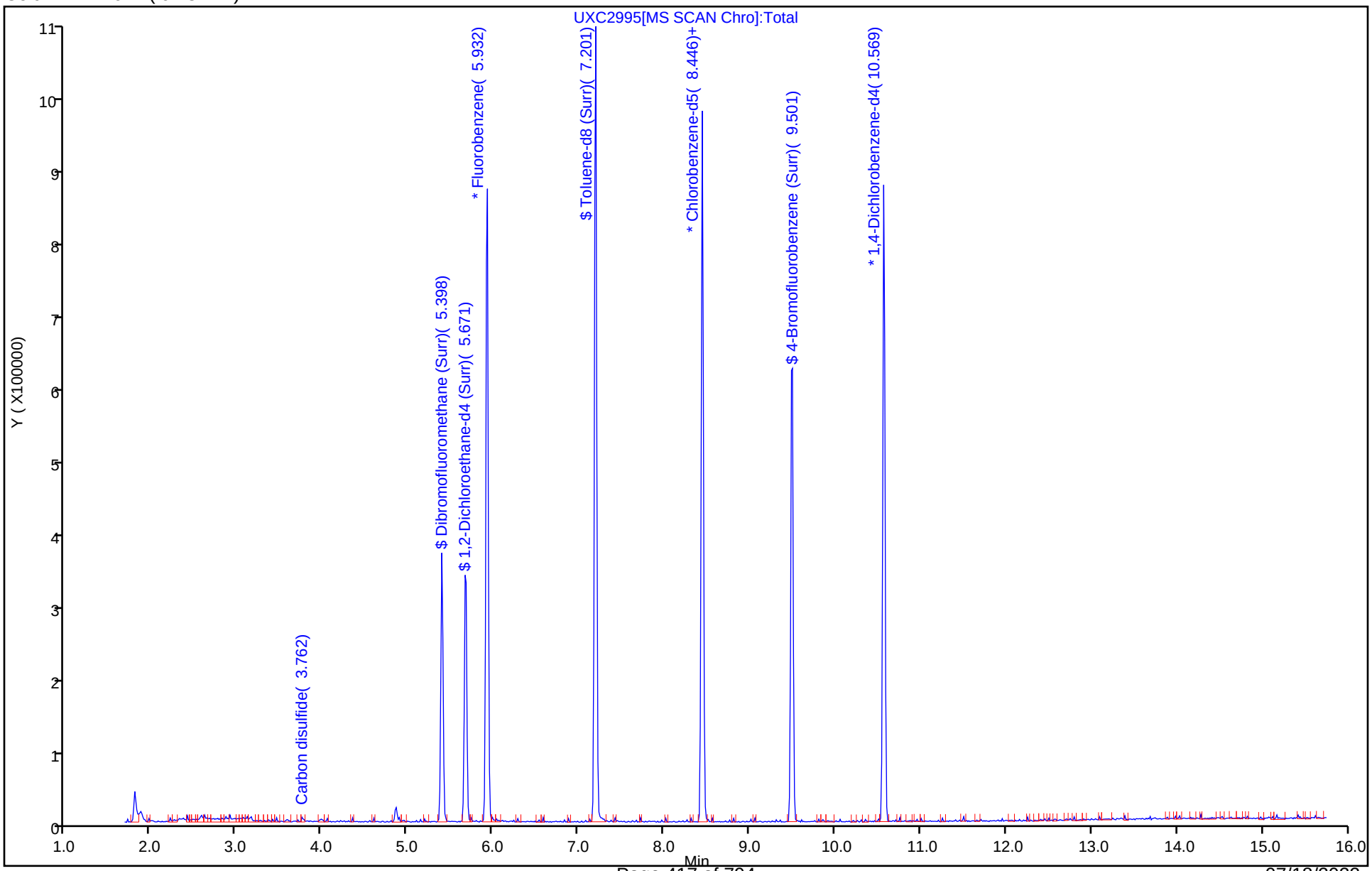
Report Date: 15-Jul-2022 08:57:50 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2995.D

Injection Date:	13-Jul-2022 16:35:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-25	Lab Sample ID:	240-169444-25	Worklist Smp#:	12
Client ID:	TB-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2995.D
Lims ID: 240-169444-B-25
Client ID: TB-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 16:35:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-012
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:57:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.0	109.80
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.61
$ 6 Toluene-d8 (Surr)	20.0	19.0	94.75
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.6	88.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-070622 | Lab Sample ID: 240-169444-26

Matrix: Water | Lab File ID: UXC2996.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:12

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:58

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-070622 | Lab Sample ID: 240-169444-26

Matrix: Water | Lab File ID: UXC2996.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:12

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:58

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-070622 | Lab Sample ID: 240-169444-26

Matrix: Water | Lab File ID: UXC2996.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:12

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:58

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	107		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW46A-070622 | Lab Sample ID: 240-169444-26

Matrix: Water | Lab File ID: UXC2996.D

Analysis Method: 8260C | Date Collected: 07/06/2022 09:12

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 16:58

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2996.D
Lims ID: 240-169444-C-26
Client ID: MSA-SW46A-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 16:58:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-013
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:58:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	772951	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	569803	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	254612	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	94	191984	21.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	229573	20.4	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	710740	18.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	223224	16.8	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.043				ND	
10 Chloromethane	50		2.268				ND	7
11 Vinyl chloride	62		2.387				ND	
13 Bromomethane	94		2.754				ND	
14 Chloroethane	64		2.849				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.561				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.569				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.731				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.490				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.747				ND	
78 2-Hexanone	43		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.016				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.597				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.937				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

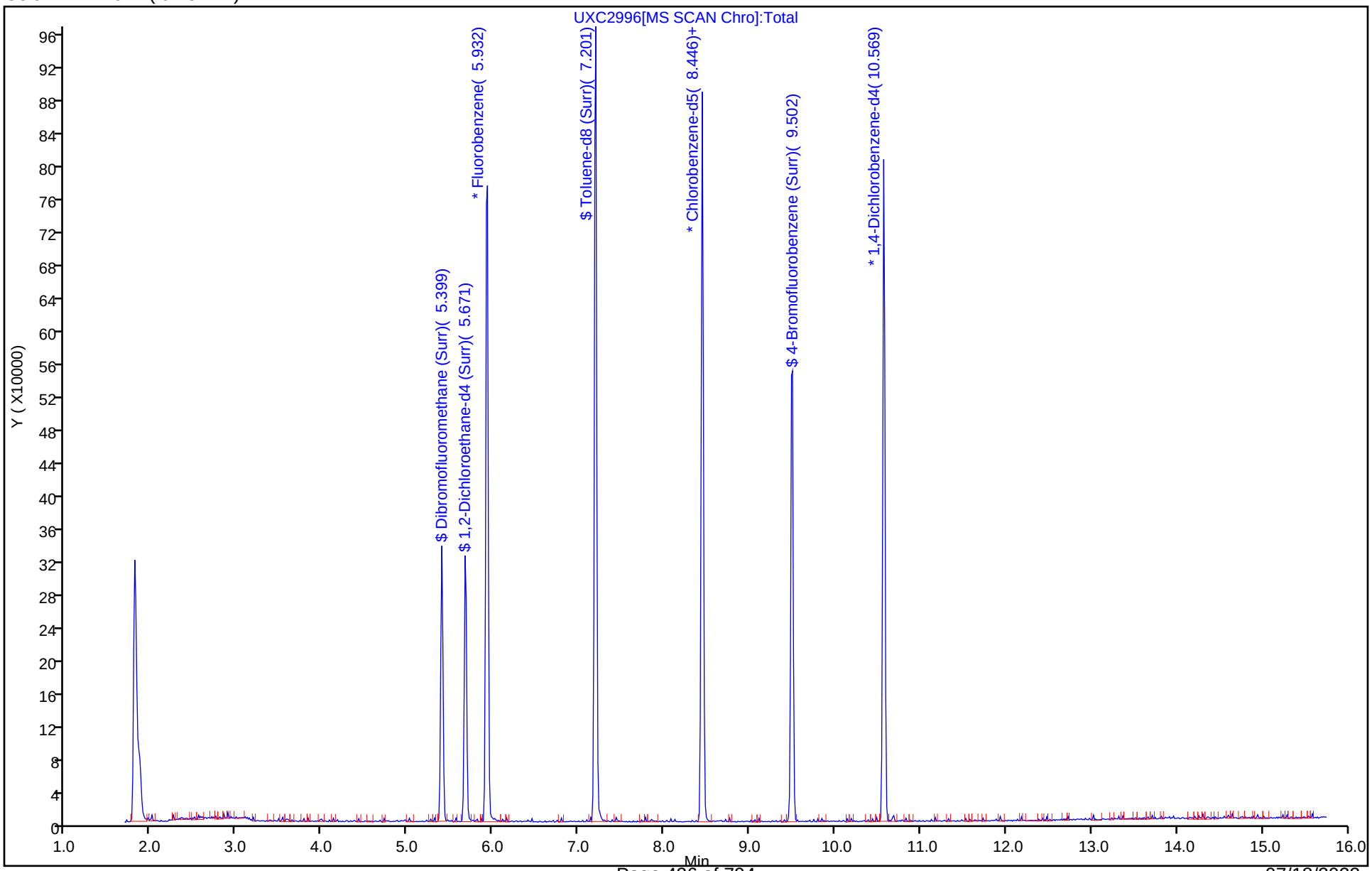
Report Date: 15-Jul-2022 08:58:37 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2996.D

Injection Date:	13-Jul-2022 16:58:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-C-26	Lab Sample ID:	240-169444-26	Worklist Smp#:	13
Client ID:	MSA-SW46A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2996.D
Lims ID: 240-169444-C-26
Client ID: MSA-SW46A-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 16:58:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-013
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:58:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.4	107.04
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.4	102.03
$ 6 Toluene-d8 (Surr)	20.0	18.7	93.30
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.8	83.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-070622 | Lab Sample ID: 240-169444-27

Matrix: Water | Lab File ID: UXC2997.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:22

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-070622 | Lab Sample ID: 240-169444-27

Matrix: Water | Lab File ID: UXC2997.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:22

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-070622 | Lab Sample ID: 240-169444-27

Matrix: Water | Lab File ID: UXC2997.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:22

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	81		56-136
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		62-137
2037-26-5	Toluene-d8 (Surr)	90		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW47A-070622 | Lab Sample ID: 240-169444-27

Matrix: Water | Lab File ID: UXC2997.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:22

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2997.D
Lims ID: 240-169444-B-27
Client ID: MSA-SW47A-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 17:22:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-014
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:59:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	806425	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	599471	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	276475	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	93	193683	20.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	232515	19.8	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	721413	18.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	95	225550	16.1	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.043				ND	
10 Chloromethane	50		2.268				ND	7
11 Vinyl chloride	62		2.387				ND	
13 Bromomethane	94		2.754				ND	7
14 Chloroethane	64		2.849				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.561				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	7
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.569				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.731				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.490				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.747				ND	
78 2-Hexanone	43		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.016				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.597				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.937				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

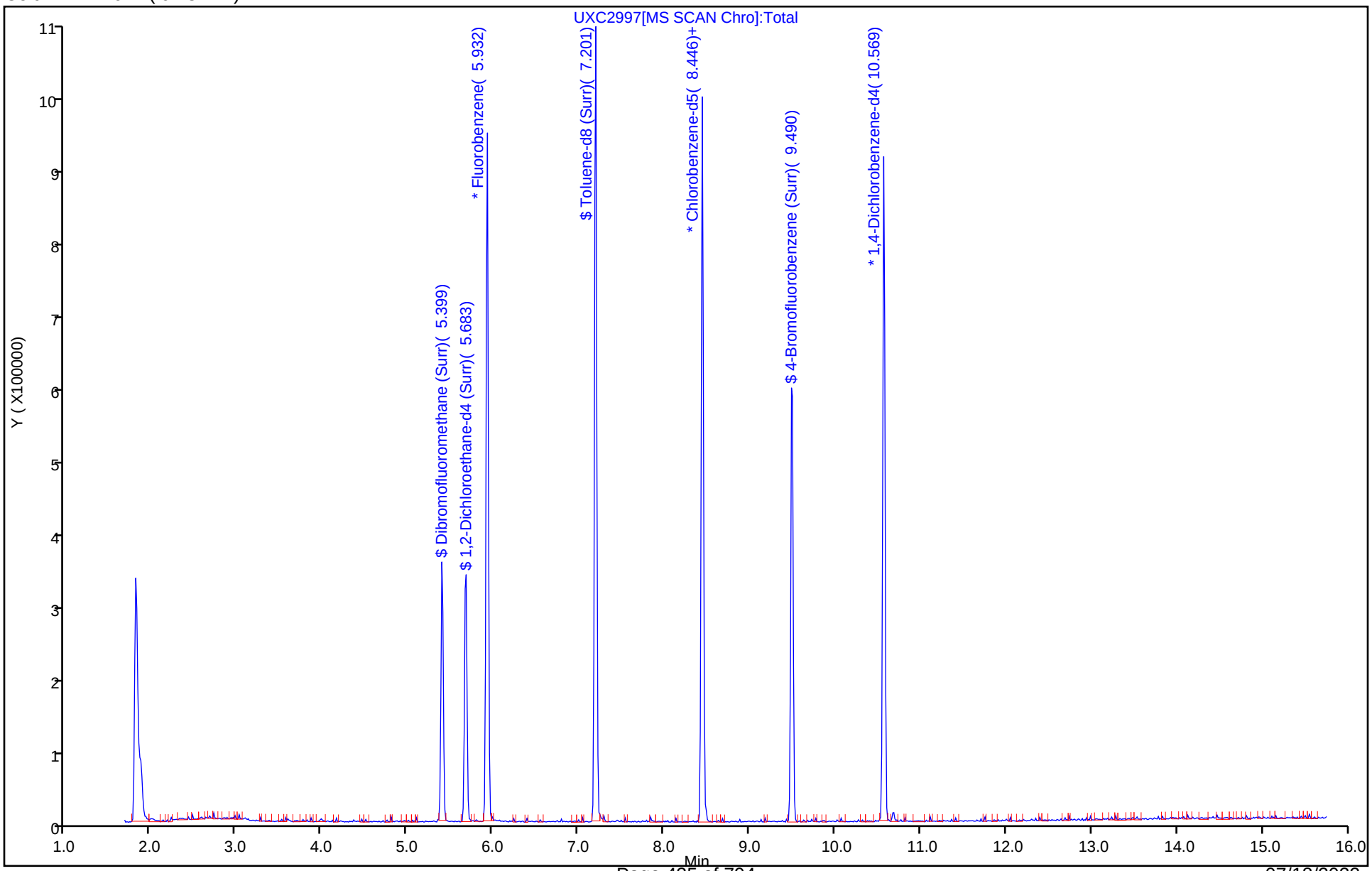
Report Date: 15-Jul-2022 08:59:14 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2997.D

Injection Date:	13-Jul-2022 17:22:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-27	Lab Sample ID:	240-169444-27	Worklist Smp#:	14
Client ID:	MSA-SW47A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2997.D
Lims ID: 240-169444-B-27
Client ID: MSA-SW47A-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 17:22:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-014
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:59:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.7	103.50
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.8	99.05
$ 6 Toluene-d8 (Surr)	20.0	18.0	90.02
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.1	80.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-070622 | Lab Sample ID: 240-169444-28

Matrix: Water | Lab File ID: UXC2998.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:36

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-070622 | Lab Sample ID: 240-169444-28

Matrix: Water | Lab File ID: UXC2998.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:36

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-070622 | Lab Sample ID: 240-169444-28

Matrix: Water | Lab File ID: UXC2998.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:36

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		56-136
1868-53-7	Dibromofluoromethane (Surr)	112		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		62-137
2037-26-5	Toluene-d8 (Surr)	101		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW48A-070622 | Lab Sample ID: 240-169444-28

Matrix: Water | Lab File ID: UXC2998.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:36

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 17:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2998.D
Lims ID: 240-169444-B-28
Client ID: MSA-SW48A-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 17:45:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-015
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 09:01:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	779659	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	566708	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	260325	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	94	203506	22.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	242075	21.3	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	764824	20.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	95	244321	18.5	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.043				ND	
10 Chloromethane	50	2.280	2.268	0.012	93	4331	0.4220	
11 Vinyl chloride	62		2.387				ND	
13 Bromomethane	94		2.754				ND	
14 Chloroethane	64		2.849				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.561				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	7
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.569				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.731				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130	6.205	6.205	0.000	91	2097	0.1926	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.490				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.747				ND	
78 2-Hexanone	43		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.016				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.597				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.937				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

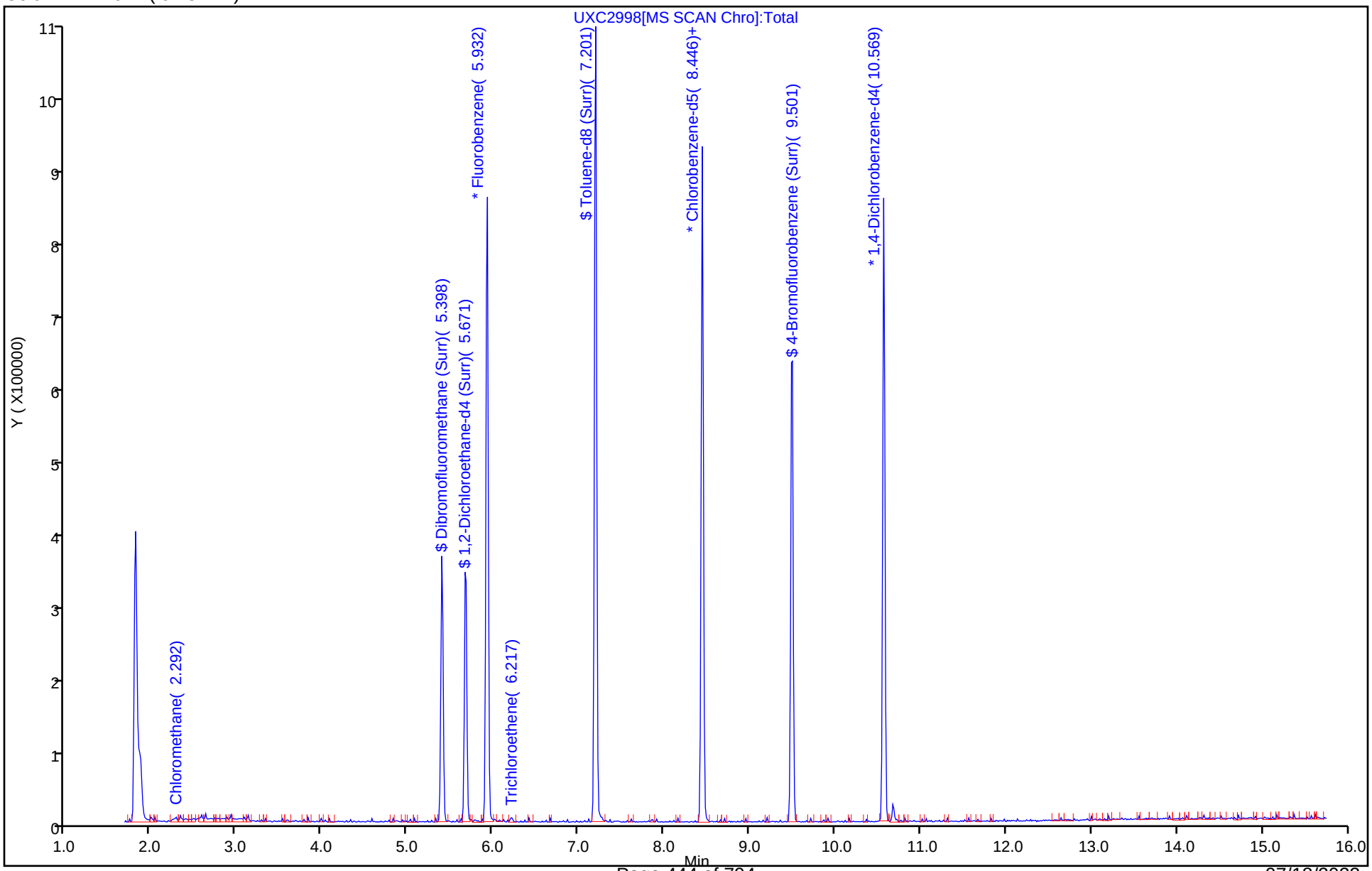
Report Date: 15-Jul-2022 09:01:11 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2998.D

Injection Date:	13-Jul-2022 17:45:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-28	Lab Sample ID:	240-169444-28	Worklist Smp#:	15
Client ID:	MSA-SW48A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2998.D
Lims ID: 240-169444-B-28
Client ID: MSA-SW48A-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 17:45:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-015
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 09:01:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.5	112.49
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.3	106.67
$ 6 Toluene-d8 (Surr)	20.0	20.2	100.95
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.5	92.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622 | Lab Sample ID: 240-169444-29

Matrix: Water | Lab File ID: UXC2999.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:08

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622 | Lab Sample ID: 240-169444-29

Matrix: Water | Lab File ID: UXC2999.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:08

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622 | Lab Sample ID: 240-169444-29

Matrix: Water | Lab File ID: UXC2999.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:08

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	80		56-136
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		62-137
2037-26-5	Toluene-d8 (Surr)	90		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SW49A-070622 | Lab Sample ID: 240-169444-29

Matrix: Water | Lab File ID: UXC2999.D

Analysis Method: 8260C | Date Collected: 07/06/2022 08:16

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:08

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2999.D
Lims ID: 240-169444-B-29
Client ID: MSA-SW49A-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 18:08:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-016
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 09:05:41 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 09:17:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	793926	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	594391	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	281341	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	93	191784	20.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	232069	20.1	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	714372	18.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	223023	16.1	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.043				ND	
10 Chloromethane	50	2.256	2.268	-0.012	54	2034	0.1946	
11 Vinyl chloride	62		2.387				ND	
13 Bromomethane	94		2.754				ND	
14 Chloroethane	64		2.849				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.561				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	
28 Methylene Chloride	84		3.987				ND	
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.569				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83		5.268				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.731				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130	6.205	6.205	0.000	62	1141	0.1029	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.490				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.747				ND	
78 2-Hexanone	43		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.016				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.597				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.937				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

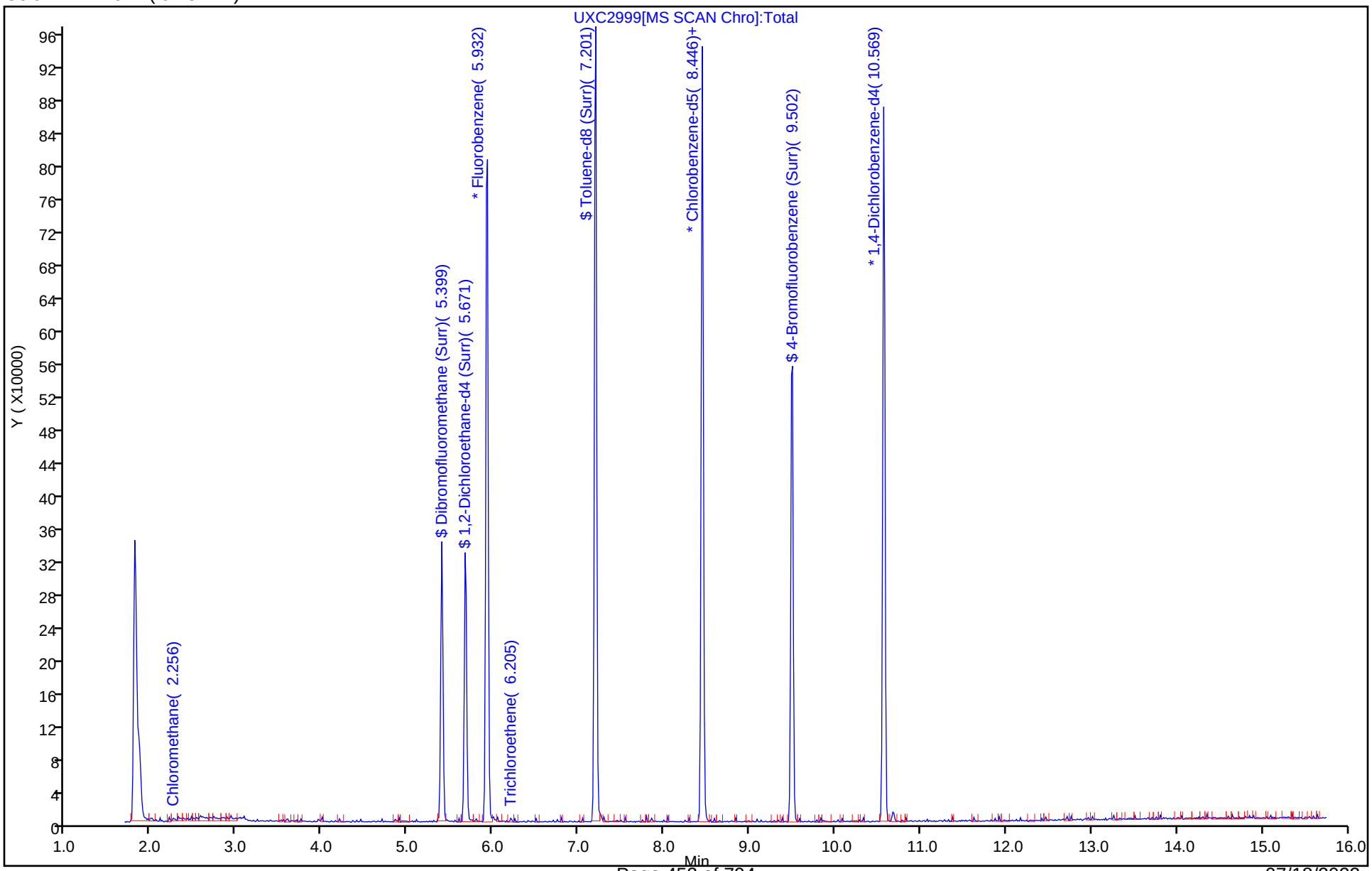
vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

Report Date: 15-Jul-2022 09:17:09 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2999.D				
Injection Date:	13-Jul-2022 18:08:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-29	Lab Sample ID:	240-169444-29	Worklist Smp#:	16
Client ID:	MSA-SW49A-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2999.D
Lims ID: 240-169444-B-29
Client ID: MSA-SW49A-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 18:08:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-016
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 09:05:41 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 09:17:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.8	104.10
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.1	100.42
$ 6 Toluene-d8 (Surr)	20.0	18.0	89.90
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.1	80.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SWEQB-070622 | Lab Sample ID: 240-169444-30

Matrix: Water | Lab File ID: UXC3000.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	1.8		1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SWEQB-070622 | Lab Sample ID: 240-169444-30

Matrix: Water | Lab File ID: UXC3000.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SWEQB-070622 | Lab Sample ID: 240-169444-30

Matrix: Water | Lab File ID: UXC3000.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		56-136
1868-53-7	Dibromofluoromethane (Surr)	110		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		62-137
2037-26-5	Toluene-d8 (Surr)	93		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: MSA-SWEQB-070622 | Lab Sample ID: 240-169444-30

Matrix: Water | Lab File ID: UXC3000.D

Analysis Method: 8260C | Date Collected: 07/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC3000.D
Lims ID: 240-169444-B-30
Client ID: MSA-SWEQB-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 18:31:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-017
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 09:01:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	786039	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	581391	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	279216	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	94	200405	22.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	235099	20.6	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	719151	18.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	95	227834	16.8	
160 Chlorobenzene-d5 (IS)	117		0.680				ND	
9 Dichlorodifluoromethane	85		2.043				ND	
10 Chloromethane	50		2.268				ND	7
11 Vinyl chloride	62		2.387				ND	
13 Bromomethane	94		2.754				ND	
14 Chloroethane	64		2.849				ND	
16 Trichlorofluoromethane	101		3.086				ND	
19 1,1-Dichloroethene	96		3.561				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584				ND	
21 Acetone	43		3.584				ND	7
24 Carbon disulfide	76		3.774				ND	7
28 Methylene Chloride	84		3.987				ND	7
29 2-Methyl-2-propanol	59		4.047				ND	
31 Methyl tert-butyl ether	73		4.201				ND	
32 trans-1,2-Dichloroethene	96		4.213				ND	
33 Chlorodifluoromethane TIC	51		4.221				ND	
36 Vinyl acetate	43		4.545				ND	
37 Isopropyl ether	87		4.568				ND	
35 1,1-Dichloroethane	63		4.569				ND	
39 Tert-butyl ethyl ether	59		4.853				ND	
40 2-Butanone (MEK)	72		4.995				ND	
41 cis-1,2-Dichloroethene	96		5.019				ND	
42 2,2-Dichloropropane	97		5.031				ND	
46 Chlorobromomethane	128		5.209				ND	
48 Chloroform	83	5.280	5.268	0.012	91	29502	1.79	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97		5.434				ND	
51 1,1-Dichloropropene	75		5.541				ND	
52 Carbon tetrachloride	117		5.553				ND	
55 Benzene	78		5.707				ND	
56 1,2-Dichloroethane	62		5.731				ND	
57 Tert-amyl methyl ether	73		5.766				ND	
60 Trichloroethene	130		6.205				ND	
63 1,2-Dichloropropane	63		6.418				ND	
65 Dibromomethane	93		6.490				ND	
67 Dichlorobromomethane	83		6.620				ND	
69 2-Chloroethyl vinyl ether	63		6.810				ND	
70 cis-1,3-Dichloropropene	75		6.964				ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059				ND	
72 Toluene	91		7.260				ND	
73 trans-1,3-Dichloropropene	75		7.426				ND	
76 Tetrachloroethene	164		7.699				ND	
77 1,3-Dichloropropane	76		7.747				ND	
78 2-Hexanone	43		7.747				ND	
80 Chlorodibromomethane	129		7.936				ND	
82 Ethylene Dibromide	107		8.055				ND	
84 Chlorobenzene	112		8.470				ND	
86 Ethylbenzene	106		8.541				ND	
85 1,1,1,2-Tetrachloroethane	131		8.541				ND	
87 m-Xylene & p-Xylene	91		8.648				ND	
88 o-Xylene	106		9.004				ND	
89 Styrene	104		9.016				ND	
90 Bromoform	173		9.205				ND	
91 Isopropylbenzene	105		9.324				ND	
94 1,1,2,2-Tetrachloroethane	83		9.597				ND	
95 Bromobenzene	156		9.644				ND	
96 1,2,3-Trichloropropane	110		9.656				ND	
98 N-Propylbenzene	120		9.703				ND	
99 2-Chlorotoluene	126		9.810				ND	
102 4-Chlorotoluene	91		9.917				ND	
104 tert-Butylbenzene	119		10.166				ND	
106 1,2,4-Trimethylbenzene	105		10.213				ND	
107 sec-Butylbenzene	105		10.367				ND	
109 4-Isopropyltoluene	119		10.498				ND	
108 1,3-Dichlorobenzene	146		10.498				ND	
110 1,4-Dichlorobenzene	146		10.593				ND	
111 1,2,3-Trimethylbenzene	105		10.604				ND	
113 n-Butylbenzene	91		10.889				ND	
114 1,2-Dichlorobenzene	146		10.937				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672				ND	
117 1,2,4-Trichlorobenzene	180		12.454				ND	
118 Hexachlorobutadiene	225		12.573				ND	
119 Naphthalene	128		12.715				ND	
120 1,2,3-Trichlorobenzene	180		12.917				ND	
S 129 Xylenes, Total	106		17.310				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

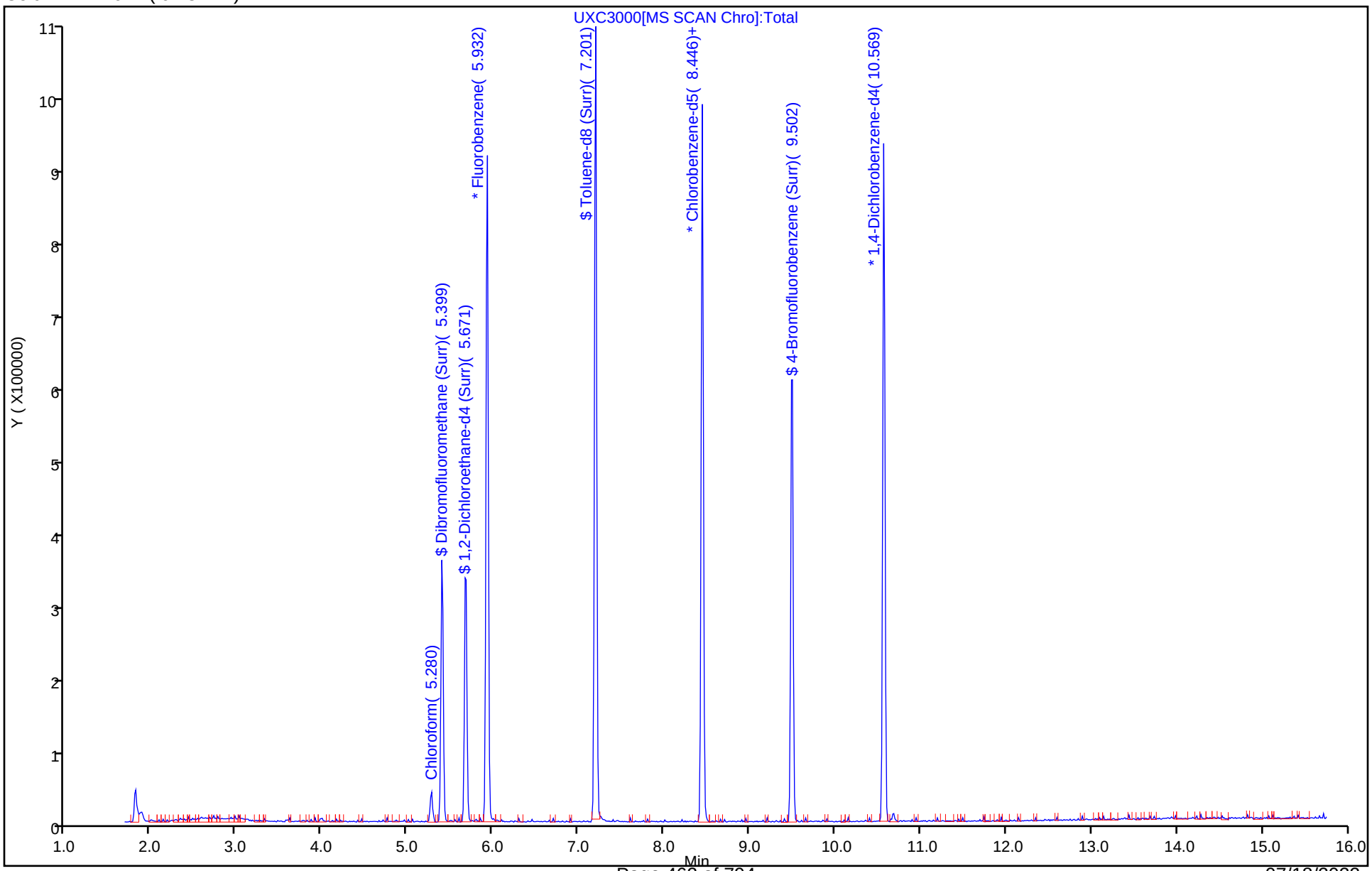
Report Date: 15-Jul-2022 09:01:55 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC3000.D

Injection Date:	13-Jul-2022 18:31:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	240-169444-B-30	Lab Sample ID:	240-169444-30	Worklist Smp#:	17
Client ID:	MSA-SWEQB-070622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC3000.D
Lims ID: 240-169444-B-30
Client ID: MSA-SWEQB-070622
Sample Type: Client
Inject. Date: 13-Jul-2022 18:31:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-017
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

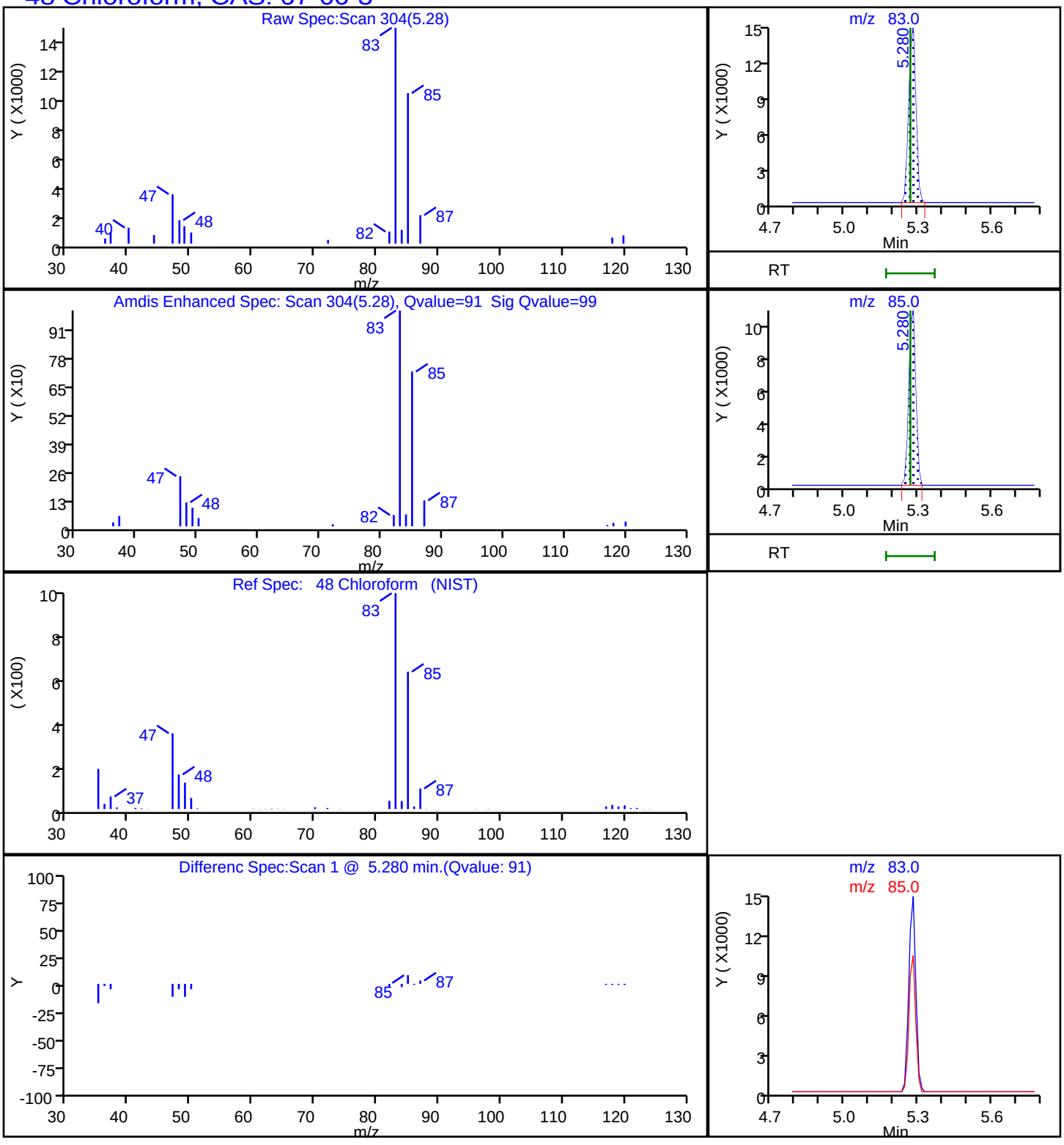
First Level Reviewer: MAW1 Date: 15-Jul-2022 09:01:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.0	109.87
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.6	102.75
$ 6 Toluene-d8 (Surr)	20.0	18.5	92.53
$ 7 4-Bromofluorobenzene (Surr)	20.0	16.8	83.93

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC3000.D
Injection Date: 13-Jul-2022 18:31:30 Instrument ID: A3UX15
Lims ID: 240-169444-B-30 Lab Sample ID: 240-169444-30
Client ID: MSA-SWEQB-070622
Operator ID: 001904 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

48 Chloroform, CAS: 67-66-3



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton | Job No.: 240-169444-1 | Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 | Calibration End Date: 06/17/2022 18:14 | Calibration ID: 66322

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-531220/9	UXC2434.D
Level 2	STD8260 240-531220/10	UXC2435.D
Level 3	STD8260 240-531220/11	UXC2436.D
Level 4	STD8260 240-531220/12	UXC2437.D
Level 5	ICIS 240-531220/13	UXC2438.D
Level 6	STD8260 240-531220/14	UXC2439.D
Level 7	STD8260 240-531220/15	UXC2440.D
Level 8	STD8260 240-531220/16	UXC2441.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	0.1868 0.2174	0.1537 0.2287	0.1755 0.2236	0.2222	0.2206	Ave		0.2036			0.1000	13.7		20.0			
Chloromethane	0.3145 0.2564	0.2521 0.2557	0.2598 0.2518	0.2530	0.2626	Ave		0.2633			0.1000	8.0		20.0			
Vinyl chloride	0.2617 0.2732	0.2593 0.2762	0.2557 0.2758	0.2749	0.2800	Ave		0.2696			0.1000	3.4		20.0			
Butadiene	0.2846 0.2842	0.2281 0.2785	0.2542 0.2772	0.2899	0.2765	Ave		0.2717				7.6		20.0			
Bromomethane	+++++ 0.2114	0.2112 0.2248	0.1989 0.2277	0.1953	0.1983	Ave		0.2097			0.0500	6.2		20.0			
Chloroethane	0.2000 0.2039	0.1646 0.2160	0.1831 0.2189	0.1815	0.1971	Ave		0.1956			0.0500	9.4		20.0			
Dichlorofluoromethane	0.5137 0.4488	0.3953 0.4696	0.3907 0.4655	0.4237	0.4403	Ave		0.4434				9.2		20.0			
Trichlorofluoromethane	+++++ 0.4029	0.3031 0.4225	0.2944 0.4178	0.3807	0.3960	Ave		0.3739			0.1000	14.2		20.0			
Ethyl ether	0.1979 0.2057	0.1803 0.2142	0.1963 0.2054	0.1918	0.2033	Ave		0.1994				5.2		20.0			
Acrolein	0.0292 0.0260	0.0230 0.0280	0.0201 0.0249	0.0233	0.0237	Ave		0.0248				11.8		20.0			
1,1-Dichloroethene	0.1989 0.2057	0.1937 0.2083	0.1900 0.2092	0.1960	0.2020	Ave		0.2005			0.1000	3.5		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1082 0.1508	0.1121 0.1565	0.1192 0.1586	0.1413	0.1523	Ave		0.1374			0.0500	15.2		20.0			
Acetone	+++++ 0.0808	0.1489 0.0783	0.1139 0.0649	0.0781	0.0767	Lin1	0.1653	0.0715			0.0100	8.2			0.9910		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 Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	0.3155 0.3367	0.2955 0.3430	0.3070 0.3471	0.3119	0.3270	Ave		0.3230				5.7		20.0			
Carbon disulfide	0.6031 0.5930	0.5341 0.6112	0.5512 0.6111	0.5703	0.6085	Ave		0.5853			0.1000	5.1		20.0			
Methyl acetate	0.2753 0.2447	0.2527 0.2494	0.2347 0.2340	0.2299	0.2398	Ave		0.2451			0.1000	5.9		20.0			
3-Chloro-1-propene	0.1496 0.1770	0.1437 0.1783	0.1414 0.1771	0.1552	0.1672	Ave		0.1612				9.7		20.0			
Methylene Chloride	+++++ 0.2283	0.3639 0.2349	0.2978 0.2298	0.2264	0.2340	Lin1	0.1274	0.2283			0.1000	3.6			1.0000		0.9900
tert-Butyl alcohol	0.0291 0.0291	0.0279 0.0284	0.0286 0.0220	0.0266	0.0284	Ave		0.0275				8.6		20.0			
Acrylonitrile	0.1017 0.1083	0.0918 0.1099	0.0968 0.1002	0.1015	0.1021	Ave		0.1016				5.7		20.0			
Methyl tert-butyl ether	0.6655 0.7086	0.6114 0.7401	0.6317 0.7172	0.6564	0.6842	Ave		0.6769			0.1000	6.5		20.0			
trans-1,2-Dichloroethene	0.3142 0.2619	0.2694 0.2646	0.2486 0.2617	0.2411	0.2555	Ave		0.2646			0.1000	8.3		20.0			
Hexane	0.0608 0.0657	0.0538 0.0692	0.0459 0.0663	0.0600	0.0649	Ave		0.0609				12.6		20.0			
Vinyl acetate	0.4354 0.3478	0.3757 0.3874	0.3949 0.3232	0.3627	0.3558	Ave		0.3729				9.1		20.0			
1,1-Dichloroethane	0.4409 0.4518	0.3885 0.4640	0.3976 0.4498	0.4188	0.4477	Ave		0.4324			0.2000	6.4		20.0			
2-Butanone	+++++ 0.0423	0.0466 0.0430	0.0428 0.0386	0.0411	0.0405	Ave		0.0421			0.0100	5.9		20.0			
cis-1,2-Dichloroethene	0.2445 0.2772	0.2702 0.2847	0.2533 0.2803	0.2623	0.2686	Ave		0.2676			0.1000	5.1		20.0			
2,2-Dichloropropane	+++++ 0.0577	0.0536 0.0569	0.0574 0.0564	0.0589	0.0585	Ave		0.0570				3.1		20.0			
Bromochloromethane	0.1399 0.1340	0.1136 0.1397	0.1167 0.1371	0.1222	0.1333	Ave		0.1296				8.1		20.0			
Tetrahydrofuran	0.1246 0.1020	0.1033 0.1037	0.0974 0.0926	0.0962	0.1008	Ave		0.1026				9.5		20.0			
Chloroform	0.4068 0.4356	0.3911 0.4478	0.3909 0.4419	0.4182	0.4314	Ave		0.4205			0.2000	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 Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	0.3565 0.3792	0.3191 0.3932	0.3268 0.3806	0.3567	0.3810	Ave		0.3616			0.1000	7.5		20.0			
Cyclohexane	0.3474 0.3881	0.3138 0.3905	0.3380 0.3938	0.3740	0.3920	Ave		0.3672			0.1000	8.3		20.0			
1,1-Dichloropropene	0.3542 0.3699	0.3346 0.3813	0.3206 0.3739	0.3531	0.3672	Ave		0.3568				5.8		20.0			
Carbon tetrachloride	0.2982 0.3498	0.2900 0.3612	0.3019 0.3582	0.3182	0.3405	Ave		0.3272			0.1000	8.8		20.0			
Isobutyl alcohol	0.0109 0.0117	0.0106 0.0117	0.0109 0.0099	0.0111	0.0115	Ave		0.0110				5.5		20.0			
Benzene	0.9994 1.0226	0.8954 1.0625	0.9331 1.0513	0.9573	1.0171	Ave		0.9923			0.5000	5.9		20.0			
1,2-Dichloroethane	0.3402 0.3475	0.3138 0.3496	0.3178 0.3388	0.3275	0.3396	Ave		0.3343			0.1000	4.0		20.0			
n-Heptane	+++++ 0.0574	0.0522 0.0591	0.0455 0.0593	0.0544	0.0593	Ave		0.0553				9.3		20.0			
Trichloroethene	0.2746 0.2925	0.2485 0.3031	0.2587 0.2977	0.2724	0.2868	Ave		0.2793			0.1500	6.9		20.0			
Methylcyclohexane	0.2952 0.3949	0.2869 0.4005	0.3213 0.3989	0.3692	0.3929	Ave		0.3575			0.1000	13.6		20.0			
1,2-Dichloropropane	0.2281 0.2387	0.2168 0.2452	0.2233 0.2416	0.2299	0.2356	Ave		0.2324			0.1000	4.2		20.0			
1,4-Dioxane	0.0020 0.0027	0.0020 0.0026	0.0023 0.0020	0.0025	0.0028	Ave		0.0024				14.2		20.0			
Dibromomethane	0.1602 0.1513	0.1382 0.1527	0.1407 0.1469	0.1416	0.1467	Ave		0.1473				5.0		20.0			
Bromodichloromethane	0.3251 0.3245	0.2693 0.3363	0.2813 0.3240	0.3000	0.3061	Ave		0.3083			0.1500	7.6		20.0			
2-Chloroethyl vinyl ether	0.1874 0.1773	0.1593 0.1933	0.1523 0.1806	0.1650	0.1777	Ave		0.1741				8.1		20.0			
cis-1,3-Dichloropropene	0.3494 0.3972	0.3430 0.4194	0.3520 0.4023	0.3649	0.3927	Ave		0.3776			0.1500	7.6		20.0			
4-Methyl-2-pentanone	0.3345 0.3161	0.2854 0.3306	0.3139 0.3017	0.2976	0.3160	Ave		0.3120			0.0500	5.3		20.0			
Toluene	1.5764 1.5141	1.3418 1.5862	1.3977 1.5302	1.4475	1.4945	Ave		1.4860			0.4000	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
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	0.5071 0.5066	0.4253 0.5477	0.4391 0.5198	0.4725	0.4930	Ave		0.4889			0.1000	8.4		20.0			
Ethyl methacrylate	0.4708 0.4842	0.4487 0.5217	0.4251 0.4826	0.4496	0.4723	Ave		0.4694				6.2		20.0			
1,1,2-Trichloroethane	0.3039 0.2907	0.2673 0.3099	0.2601 0.2939	0.2778	0.2865	Ave		0.2863			0.1000	6.0		20.0			
Tetrachloroethene	0.2774 0.3044	0.2507 0.3304	0.2602 0.3197	0.2784	0.2927	Ave		0.2892			0.1500	9.7		20.0			
1,3-Dichloropropane	0.4904 0.5131	0.4789 0.5541	0.4648 0.5224	0.4951	0.5184	Ave		0.5046				5.6		20.0			
2-Hexanone	0.3401 0.3300	0.3078 0.3483	0.3022 0.3134	0.3112	0.3279	Ave		0.3226			0.0500	5.1		20.0			
Dibromochloromethane	0.3086 0.3323	0.2756 0.3554	0.2947 0.3400	0.2971	0.3203	Ave		0.3155				8.4		20.0			
1,2-Dibromoethane	0.3294 0.3154	0.2762 0.3381	0.2911 0.3188	0.2945	0.3160	Ave		0.3099				6.7		20.0			
Chlorobenzene	0.9137 0.9311	0.8520 0.9936	0.8555 0.9522	0.8755	0.9274	Ave		0.9126			0.3000	5.4		20.0			
1,1,1,2-Tetrachloroethane	0.2944 0.3147	0.2516 0.3301	0.2636 0.3197	0.2933	0.3148	Ave		0.2978				9.4		20.0			
Ethylbenzene	0.4775 0.5222	0.4717 0.5570	0.4496 0.5320	0.4964	0.5150	Ave		0.5027				7.0		20.0			
m-Xylene & p-Xylene	1.1512 1.2265	1.0625 1.3004	1.0639 1.2378	1.1741	1.2483	Ave		1.1831				7.3		20.0			
o-Xylene	0.5852 0.5876	0.5015 0.6159	0.5260 0.5930	0.5640	0.5789	Ave		0.5690				6.6		20.0			
Styrene	0.9774 1.0179	0.8215 1.0792	0.8863 1.0297	0.9595	0.9962	Ave		0.9710			0.3000	8.5		20.0			
Bromoform	0.2236 0.2481	0.1819 0.2670	0.1909 0.2603	0.2056	0.2262	Ave		0.2255			0.1000	14.0		20.0			
Isopropylbenzene	1.3230 1.4855	1.2324 1.5438	1.2881 1.5068	1.3701	1.4566	Ave		1.4008			0.1000	8.1		20.0			
1,1,2,2-Tetrachloroethane	0.8910 0.7602	0.7471 0.7967	0.8080 0.7467	0.7768	0.7723	Ave		0.7873			0.3000	6.0		20.0			
trans-1,4-Dichloro-2-butene	0.3067 0.2840	0.2742 0.3055	0.2703 0.2810	0.2767	0.2853	Ave		0.2855				4.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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								
Bromobenzene	0.7672 0.7715	0.6805 0.8269	0.6740 0.8004	0.7195	0.7537	Ave		0.7492				7.3		20.0			
1,2,3-Trichloropropane	0.2818 0.2832	0.2655 0.2980	0.2615 0.2778	0.2773	0.2764	Ave		0.2777				4.0		20.0			
n-Propylbenzene	0.8535 0.8327	0.7081 0.8837	0.7455 0.8470	0.8039	0.8509	Ave		0.8157				7.4		20.0			
2-Chlorotoluene	0.6598 0.7010	0.6273 0.7387	0.6634 0.7071	0.6995	0.7048	Ave		0.6877				5.1		20.0			
1,3,5-Trimethylbenzene	2.2752 2.2621	2.0269 2.3454	2.1364 2.2634	2.2022	2.2711	Ave		2.2228				4.5		20.0			
4-Chlorotoluene	2.2655 2.1287	1.9470 2.2229	1.9944 2.1152	2.0970	2.1345	Ave		2.1132				5.0		20.0			
tert-Butylbenzene	1.9897 1.9658	1.7790 2.0435	1.8491 1.9863	1.9269	1.9610	Ave		1.9377				4.4		20.0			
1,2,4-Trimethylbenzene	2.3037 2.2553	1.9195 2.3352	2.0703 2.2369	2.2518	2.2861	Ave		2.2073				6.4		20.0			
sec-Butylbenzene	2.6404 2.6263	2.2102 2.7083	2.3306 2.6336	2.5215	2.6373	Ave		2.5385				6.9		20.0			
1,3-Dichlorobenzene	1.3031 1.3192	1.1686 1.3931	1.2024 1.3440	1.2179	1.2867	Ave		1.2794			0.6000	6.0		20.0			
p-Isopropyltoluene	2.2483 2.2550	1.8537 2.3555	2.0103 2.2842	2.1538	2.2355	Ave		2.1745				7.6		20.0			
1,4-Dichlorobenzene	1.3524 1.3269	1.2229 1.4163	1.2118 1.3576	1.2797	1.3065	Ave		1.3093			0.5000	5.3		20.0			
n-Butylbenzene	1.7357 1.7766	1.5386 1.8373	1.6570 1.7688	1.7237	1.8019	Ave		1.7300				5.5		20.0			
1,2-Dichlorobenzene	1.1685 1.1476	1.0615 1.2271	1.0796 1.1856	1.0831	1.1292	Ave		1.1352			0.4000	5.1		20.0			
1,2-Dibromo-3-Chloropropane	0.2020 0.1935	0.2052 0.2046	0.1998 0.2002	0.1776	0.1867	Ave		0.1962			0.0500	4.9		20.0			
1,2,4-Trichlorobenzene	0.5544 0.5111	0.4656 0.5418	0.4771 0.5868	0.4662	0.4932	Ave		0.5120			0.2000	8.8		20.0			
Hexachlorobutadiene	0.2431 0.2295	0.1889 0.2513	0.2214 0.2693	0.2021	0.2293	Ave		0.2294				11.3		20.0			
Naphthalene	1.9588 1.8204	1.6168 1.9110	1.7029 2.0770	1.6863	1.7805	Ave		1.8192				8.5		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 Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	0.4653 0.4569	0.3940 0.4902	0.3998 0.5380	0.3990	0.4277	Ave		0.4464				11.5		20.0			
Dibromofluoromethane (Surr)	+++++ 0.2326	0.2177 0.2501	0.2162 0.2447	0.2280	0.2350	Ave		0.2320				5.5		20.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2793	0.3155 0.2965	0.2840 0.2867	0.2904	0.2852	Ave		0.2911				4.1		20.0			
Toluene-d8 (Surr)	+++++ 1.2670	1.3977 1.3999	1.3209 1.3575	1.3217	1.2934	Ave		1.3369				3.8		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.4215	0.5998 0.4603	0.4770 0.4402	0.4377	0.4321	Ave		0.4669				13.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-531220/9	UXC2434.D
Level 2	STD8260 240-531220/10	UXC2435.D
Level 3	STD8260 240-531220/11	UXC2436.D
Level 4	STD8260 240-531220/12	UXC2437.D
Level 5	ICIS 240-531220/13	UXC2438.D
Level 6	STD8260 240-531220/14	UXC2439.D
Level 7	STD8260 240-531220/15	UXC2440.D
Level 8	STD8260 240-531220/16	UXC2441.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	4390 453615	7774 705164	17264 926257	113138	223381	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Chloromethane	FB	Ave	7392 534919	12753 788614	25555 1043125	128847	265946	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Vinyl chloride	FB	Ave	6151 570013	13114 851899	25146 1142771	139965	283598	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Butadiene	FB	Ave	6688 592884	11537 858895	25005 1148285	147637	280044	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Bromomethane	FB	Ave	+++++ 440987	10681 693208	19568 943437	99422	200828	+++++ 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Chloroethane	FB	Ave	4699 425410	8325 666030	18014 906817	92399	199600	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Dichlorofluoromethane	FB	Ave	12072 936344	19991 1448227	38427 1928622	215728	445874	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Trichlorofluoromethane	FB	Ave	+++++ 840526	15329 1302923	28954 1730899	193834	400989	+++++ 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Ethyl ether	FB	Ave	4651 429157	9119 660508	19310 851012	97667	205920	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Acrolein	FB	Ave	3429 270910	5812 431181	9877 515954	59355	120164	2.50 200	5.00 300	10.0 400	50.0	100
1,1-Dichloroethene	FB	Ave	4675 429138	9795 642239	18690 866620	99803	204533	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2542 314652	5668 482581	11721 657218	71946	154250	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Acetone	FB	Lin1	+++++	15062	22402	79520	155316	+++++	2.00	4.00	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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
			337102	482818	538070			80.0	120	160		
Iodomethane	FB	Ave	7415 702513	14948 1057764	30192 1437969	158829	331155	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Carbon disulfide	FB	Ave	14174 1237122	27012 1884836	54214 2531898	290403	616229	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Methyl acetate	FB	Ave	12939 1021039	25561 1538110	46169 1938934	234112	485696	1.00 80.0	2.00 120	4.00 160	20.0	40.0
3-Chloro-1-propene	FB	Ave	3515 369196	7267 549987	13903 733647	79002	169341	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Methylene Chloride	FB	Lin1	+++++ 476304	18404 724468	29288 952111	115259	236920	+++++ 40.0	1.00 60.0	2.00 80.0	10.0	20.0
tert-Butyl alcohol	FB	Ave	6833 608071	14119 877113	28092 910408	135196	287678	5.00 400	10.0 600	20.0 800	100	200
Acrylonitrile	FB	Ave	23902 2260362	46433 3389234	95212 4152971	516888	1034001	5.00 400	10.0 600	20.0 800	100	200
Methyl tert-butyl ether	FB	Ave	15640 1478358	30923 2282415	62130 2971517	334213	692866	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	7383 546484	13628 816155	24453 1084170	122786	258710	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Hexane	FB	Ave	1430 137164	2723 213424	4517 274750	30567	65758	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Vinyl acetate	FB	Ave	10233 725595	19004 1194646	38846 1338983	184659	360362	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,1-Dichloroethane	FB	Ave	10361 942579	19650 1430976	39107 1863359	213233	453363	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
2-Butanone	FB	Ave	+++++ 176344	4714 265449	8428 320202	41840	82020	+++++ 80.0	2.00 120	4.00 160	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	5745 578355	13668 878104	24915 1161175	133546	271993	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 120330	2709 175554	5642 233852	29966	59221	+++++ 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Bromochloromethane	FB	Ave	3287 279669	5748 430945	11477 568040	62239	134983	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Tetrahydrofuran	FB	Ave	5858 425733	10450 639690	19154 767126	97966	204255	1.00 80.0	2.00 120	4.00 160	20.0	40.0
Chloroform	FB	Ave	9560	19783	38448	212951	436883	0.500	1.00	2.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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
			908789	1380875	1830857			40.0	60.0	80.0		
1,1,1-Trichloroethane	FB	Ave	8379 791150	16137 1212701	32148 1576818	181620	385873	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Cyclohexane	FB	Ave	8164 809663	15873 1204357	33245 1631491	190454	397001	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,1-Dichloropropene	FB	Ave	8323 771820	16921 1175766	31533 1548958	179807	371872	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Carbon tetrachloride	FB	Ave	7008 729843	14669 1113868	29693 1484014	162025	344794	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Isobutyl alcohol	FB	Ave	6431 612045	13367 898326	26767 1026488	141577	290321	12.5 1000	25.0 1500	50.0 2000	250	500
Benzene	FB	Ave	23486 2133564	45289 3276695	91776 4355543	487470	1029956	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,2-Dichloroethane	FB	Ave	7995 724985	15872 1078248	31257 1403533	166765	343869	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
n-Heptane	FB	Ave	+++++ 119862	2642 182367	4477 245751	27724	60060	+++++ 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Trichloroethene	FB	Ave	6453 610167	12567 934642	25445 1233264	138694	290440	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Methylcyclohexane	FB	Ave	6937 823818	14512 1235062	31606 1652710	187995	397919	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,2-Dichloropropane	FB	Ave	5360 497980	10963 756189	21960 1001142	117071	238586	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,4-Dioxane	FB	Ave	919 111706	1999 157302	4580 169307	25423	57084	10.0 800	20.0 1200	40.0 1600	200	400
Dibromomethane	FB	Ave	3765 315762	6989 470977	13839 608489	72079	148559	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Bromodichloromethane	FB	Ave	7640 676926	13623 1037173	27670 1342315	152773	309938	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	8809 739838	16111 1192460	29955 1496459	167992	359835	1.00 80.0	2.00 120	4.00 160	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	8210 828704	17349 1293290	34621 1666525	185809	397639	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
4-Methyl-2-pentanone	FB	Ave	15721 1319050	28874 2038935	61757 2500030	303058	639948	1.00 80.0	2.00 120	4.00 160	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	26238 2304583	48927 3508499	99230 4550670	531520	1103663	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	8441 771085	15508 1211370	31172 1545998	173518	364060	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	7836 737007	16360 1153857	30180 1435294	165090	348746	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	5059 442501	9747 685567	18463 874063	102017	211549	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	4618 463299	9141 730856	18472 950831	102216	216167	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	8162 780994	17462 1225542	33002 1553616	181814	382799	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
2-Hexanone	CBNZ d5	Ave	11322 1004633	22447 1540811	42918 1864287	228534	484323	1.00 80.0	2.00 120	4.00 160	20.0	40.0
Dibromochloromethane	CBNZ d5	Ave	5136 505764	10050 786066	20926 1011049	109094	236533	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	5483 480096	10071 747878	20664 948124	108159	233386	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	15209 1417194	31069 2197880	60738 2831852	321494	684852	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4900 478955	9176 730071	18714 950745	107694	232496	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	7947 794837	17201 1232007	31924 1582171	182286	380291	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	19161	38743	75535	431114	921861	0.500	1.00	2.00	10.0	20.0
			1866722	2876304	3681172			40.0	60.0	80.0		
o-Xylene	CBNZ d5	Ave	9740	18287	37343	207120	427485	0.500	1.00	2.00	10.0	20.0
			894396	1362412	1763526			40.0	60.0	80.0		
Styrene	CBNZ d5	Ave	16268	29956	62927	352313	735676	0.500	1.00	2.00	10.0	20.0
			1549340	2387025	3062334			40.0	60.0	80.0		
Bromoform	CBNZ d5	Ave	3722	6632	13554	75494	167063	0.500	1.00	2.00	10.0	20.0
			377545	590685	774212			40.0	60.0	80.0		
Isopropylbenzene	CBNZ d5	Ave	22021	44938	91451	503121	1075642	0.500	1.00	2.00	10.0	20.0
			2261062	3414725	4481110			40.0	60.0	80.0		
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6514	12388	26311	133929	275454	0.500	1.00	2.00	10.0	20.0
			567058	858467	1084312			40.0	60.0	80.0		
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2242	4546	8803	47716	101745	0.500	1.00	2.00	10.0	20.0
			211826	329217	408083			40.0	60.0	80.0		
Bromobenzene	DCBd 4	Ave	5609	11284	21947	124062	268818	0.500	1.00	2.00	10.0	20.0
			575514	890995	1162303			40.0	60.0	80.0		
1,2,3-Trichloropropane	DCBd 4	Ave	2060	4403	8515	47818	98585	0.500	1.00	2.00	10.0	20.0
			211239	321066	403407			40.0	60.0	80.0		
n-Propylbenzene	DCBd 4	Ave	6240	11741	24277	138604	303517	0.500	1.00	2.00	10.0	20.0
			621193	952212	1229909			40.0	60.0	80.0		
2-Chlorotoluene	DCBd 4	Ave	4824	10401	21604	120614	251383	0.500	1.00	2.00	10.0	20.0
			522903	795966	1026748			40.0	60.0	80.0		
1,3,5-Trimethylbenzene	DCBd 4	Ave	16634	33610	69569	379710	810064	0.500	1.00	2.00	10.0	20.0
			1687446	2527247	3286659			40.0	60.0	80.0		

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	16563	32285	64946	361576	761327	0.500	1.00	2.00	10.0	20.0
			1587974	2395200	3071541			40.0	60.0	80.0		
tert-Butylbenzene	DCBd 4	Ave	14547	29499	60213	332244	699451	0.500	1.00	2.00	10.0	20.0
			1466415	2201917	2884311			40.0	60.0	80.0		
1,2,4-Trimethylbenzene	DCBd 4	Ave	16842	31829	67417	388252	815391	0.500	1.00	2.00	10.0	20.0
			1682362	2516225	3248252			40.0	60.0	80.0		
sec-Butylbenzene	DCBd 4	Ave	19304	36648	75893	434766	940683	0.500	1.00	2.00	10.0	20.0
			1959143	2918290	3824259			40.0	60.0	80.0		
1,3-Dichlorobenzene	DCBd 4	Ave	9527	19377	39153	209992	458958	0.500	1.00	2.00	10.0	20.0
			984064	1501124	1951702			40.0	60.0	80.0		
p-Isopropyltoluene	DCBd 4	Ave	16437	30738	65463	371365	797356	0.500	1.00	2.00	10.0	20.0
			1682163	2538125	3316885			40.0	60.0	80.0		
1,4-Dichlorobenzene	DCBd 4	Ave	9887	20278	39461	220650	466006	0.500	1.00	2.00	10.0	20.0
			989807	1526096	1971342			40.0	60.0	80.0		
n-Butylbenzene	DCBd 4	Ave	12690	25513	53959	297201	642704	0.500	1.00	2.00	10.0	20.0
			1325322	1979704	2568551			40.0	60.0	80.0		
1,2-Dichlorobenzene	DCBd 4	Ave	8543	17601	35155	186743	402749	0.500	1.00	2.00	10.0	20.0
			856049	1322212	1721570			40.0	60.0	80.0		
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1477	3402	6507	30617	66608	0.500	1.00	2.00	10.0	20.0
			144362	220456	290697			40.0	60.0	80.0		
1,2,4-Trichlorobenzene	DCBd 4	Ave	4053	7720	15536	80386	175914	0.500	1.00	2.00	10.0	20.0
			381232	583801	852115			40.0	60.0	80.0		
Hexachlorobutadiene	DCBd 4	Ave	1777	3133	7210	34852	81793	0.500	1.00	2.00	10.0	20.0
			171222	270732	390998			40.0	60.0	80.0		

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 Calibration End Date: 06/17/2022 18:14 Calibration ID: 66322

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	14321 1357932	26809 2059151	55454 3016007	290752	635081	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	3402 340823	6533 528233	13020 781209	68792	152551	0.500 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 485243	11010 771286	21268 1013849	116104	237992	+++++ 40.0	1.00 60.0	2.00 80.0	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 582686	15956 914521	27934 1187928	147856	288806	+++++ 40.0	1.00 60.0	2.00 80.0	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 1928415	50966 3096581	93784 4037069	485341	955096	+++++ 40.0	1.00 60.0	2.00 80.0	10.0	20.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 641482	21872 1018070	33869 1309144	160726	319069	+++++ 40.0	1.00 60.0	2.00 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 Canton | Job No.: 240-169444-1 | Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 15:29 | Calibration End Date: 06/17/2022 18:14 | Calibration ID: 66322

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-531220/9	UXC2434.D
Level 2	STD8260 240-531220/10	UXC2435.D
Level 3	STD8260 240-531220/11	UXC2436.D
Level 4	STD8260 240-531220/12	UXC2437.D
Level 5	ICIS 240-531220/13	UXC2438.D
Level 6	STD8260 240-531220/14	UXC2439.D
Level 7	STD8260 240-531220/15	UXC2440.D
Level 8	STD8260 240-531220/16	UXC2441.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
Acetone	+++++	-7.4						50				
Methylene Chloride	+++++	3.6						50				

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Jun-2022 15:29:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-009
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:10 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:07:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	940017	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	665784	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	96	292439	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113		5.399				ND	ND	U
$ 5 1,2-Dichloroethane-d4 (Surr)	65		5.671				ND	ND	U
$ 6 Toluene-d8 (Surr)	98		7.201				ND	ND	U
$ 7 4-Bromofluorobenzene (Surr)	95		9.502				ND	ND	U
9 Dichlorodifluoromethane	85	2.054	2.043	0.011	96	4390	0.5000	0.4589	
10 Chloromethane	50	2.268	2.268	0.000	48	7392	0.5000	0.5974	
11 Vinyl chloride	62	2.398	2.387	0.011	67	6151	0.5000	0.4854	
12 Butadiene	54	2.434	2.422	0.012	94	6688	0.5000	0.5238	
13 Bromomethane	94		2.754				ND	ND	U
14 Chloroethane	64	2.861	2.849	0.012	65	4699	0.5000	0.5111	
15 Dichlorofluoromethane	67	3.074	3.063	0.011	95	12072	0.5000	0.5792	
16 Trichlorofluoromethane	101		3.074				ND	ND	U
17 Ethyl ether	59	3.347	3.335	0.012	85	4651	0.5000	0.4963	
18 Acrolein	56	3.477	3.466	0.011	91	3429	2.50	2.95	
19 1,1-Dichloroethene	96	3.572	3.561	0.011	98	4675	0.5000	0.4962	
20 112TCTFE	151	3.584	3.572	0.012	64	2542	0.5000	0.3937	
21 Acetone	43		3.584				ND	ND	U
22 Iodomethane	142	3.715	3.703	0.012	75	7415	0.5000	0.4885	
24 Carbon disulfide	76	3.786	3.774	0.012	99	14174	0.5000	0.5152	
27 Methyl acetate	43	3.857	3.857	0.000	96	12939	1.00	1.12	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	88	3515	0.5000	0.4640	
28 Methylene Chloride	84		3.988				ND	ND	U
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	91	6833	5.00	5.28	
30 Acrylonitrile	53	4.177	4.177	0.000	99	23902	5.00	5.01	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	97	15640	0.5000	0.4916	
32 trans-1,2-Dichloroethene	96	4.225	4.213	0.011	91	7383	0.5000	0.5936	
34 Hexane	86	4.438	4.426	0.012	91	1430	0.5000	0.5000	
36 Vinyl acetate	43	4.545	4.545	0.000	97	10233	0.5000	0.5839	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.580	4.569	0.011	95	10361	0.5000	0.5098	
40 2-Butanone (MEK)	72		4.995				ND	ND	U
41 cis-1,2-Dichloroethene	96	5.031	5.019	0.012	82	5745	0.5000	0.4567	
42 2,2-Dichloropropane	97		5.031				ND	ND	U
46 Chlorobromomethane	128	5.221	5.209	0.012	86	3287	0.5000	0.5397	
47 Tetrahydrofuran	42	5.232	5.221	0.011	89	5858	1.00	1.21	
48 Chloroform	83	5.280	5.268	0.012	94	9560	0.5000	0.4838	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	95	8379	0.5000	0.4929	
50 Cyclohexane	56	5.493	5.494	-0.001	57	8164	0.5000	0.4730	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	83	8323	0.5000	0.4963	
52 Carbon tetrachloride	117	5.553	5.553	0.000	83	7008	0.5000	0.4556	
53 Isobutyl alcohol	41	5.565	5.553	0.011	86	6431	12.5	12.4	
55 Benzene	78	5.707	5.707	0.000	98	23486	0.5000	0.5035	
56 1,2-Dichloroethane	62	5.742	5.743	-0.001	95	7995	0.5000	0.5088	
58 n-Heptane	100		5.885				ND	ND	
60 Trichloroethene	130	6.217	6.217	0.000	94	6453	0.5000	0.4916	
62 Methylcyclohexane	83	6.418	6.407	0.011	87	6937	0.5000	0.4129	
63 1,2-Dichloropropane	63	6.430	6.419	0.012	91	5360	0.5000	0.4907	
66 1,4-Dioxane	88	6.466	6.466	0.000	24	919	10.0	8.30	
65 Dibromomethane	93	6.501	6.502	-0.001	96	3765	0.5000	0.5439	
67 Dichlorobromomethane	83	6.620	6.620	0.000	97	7640	0.5000	0.5272	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	90	8809	1.00	1.08	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	92	8210	0.5000	0.4626	
71 4-Methyl-2-pentanone (MIBK)	43	7.071	7.071	0.000	96	15721	1.00	1.07	
72 Toluene	91	7.260	7.260	0.000	97	26238	0.5000	0.5304	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	92	8441	0.5000	0.5187	
74 Ethyl methacrylate	69	7.438	7.438	0.000	90	7836	0.5000	0.5015	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	92	5059	0.5000	0.5309	
76 Tetrachloroethene	164	7.699	7.699	0.000	96	4618	0.5000	0.4796	
77 1,3-Dichloropropane	76	7.746	7.747	-0.001	95	8162	0.5000	0.4859	
78 2-Hexanone	43	7.758	7.759	-0.001	92	11322	1.00	1.05	
80 Chlorodibromomethane	129	7.936	7.936	0.000	86	5136	0.5000	0.4890	
82 Ethylene Dibromide	107	8.067	8.055	0.012	94	5483	0.5000	0.5314	
84 Chlorobenzene	112	8.482	8.482	0.000	96	15209	0.5000	0.5006	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	43	4900	0.5000	0.4943	
86 Ethylbenzene	106	8.541	8.541	0.000	99	7947	0.5000	0.4749	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	95	19161	0.5000	0.4865	
88 o-Xylene	106	9.003	9.004	-0.001	92	9740	0.5000	0.5142	
89 Styrene	104	9.015	9.016	-0.001	91	16268	0.5000	0.5033	
90 Bromoform	173	9.205	9.205	0.000	92	3722	0.5000	0.4959	
91 Isopropylbenzene	105	9.324	9.324	0.000	96	22021	0.5000	0.4722	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	92	6514	0.5000	0.5658	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	40	2242	0.5000	0.5371	
95 Bromobenzene	156	9.644	9.644	0.000	90	5609	0.5000	0.5120	
96 1,2,3-Trichloropropane	110	9.668	9.668	0.000	50	2060	0.5000	0.5074	
98 N-Propylbenzene	120	9.703	9.703	0.000	99	6240	0.5000	0.5232	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	4824	0.5000	0.4797	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	95	16634	0.5000	0.5118	
102 4-Chlorotoluene	91	9.917	9.917	0.000	96	16563	0.5000	0.5360	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	14547	0.5000	0.5134	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	16842	0.5000	0.5218	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	19304	0.5000	0.5201	

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	10.510	10.510	0.000	76	9527	0.5000	0.5093	
109 4-Isopropyltoluene	119	10.510	10.510	0.000	96	16437	0.5000	0.5170	
110 1,4-Dichlorobenzene	146	10.604	10.593	0.011	90	9887	0.5000	0.5165	
113 n-Butylbenzene	91	10.889	10.889	0.000	96	12690	0.5000	0.5017	
114 1,2-Dichlorobenzene	146	10.936	10.937	-0.001	95	8543	0.5000	0.5147	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.684	-0.012	39	1477	0.5000	0.5148	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	90	4053	0.5000	0.5414	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	87	1777	0.5000	0.5299	
119 Naphthalene	128	12.715	12.715	0.000	97	14321	0.5000	0.5384	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	92	3402	0.5000	0.5212	
S 130 Total BTEX	1				0		2.50	2.51	
S 131 Trihalomethanes, Total	1				0		2.00	2.00	
S 127 1,2-Dichloroethene, Total	96				0			1.05	
S 128 1,3-Dichloropropene, Total	75				0			0.9813	
S 129 Xylenes, Total	106				0		1.00	1.00	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmrgas_00430	Amount Added:	0.40	Units: uL
vmarolistdw_00442	Amount Added:	0.40	Units: uL
vmrprimw_00486	Amount Added:	0.40	Units: uL
vm50ss_stk_00091	Amount Added:	0.40	Units: uL

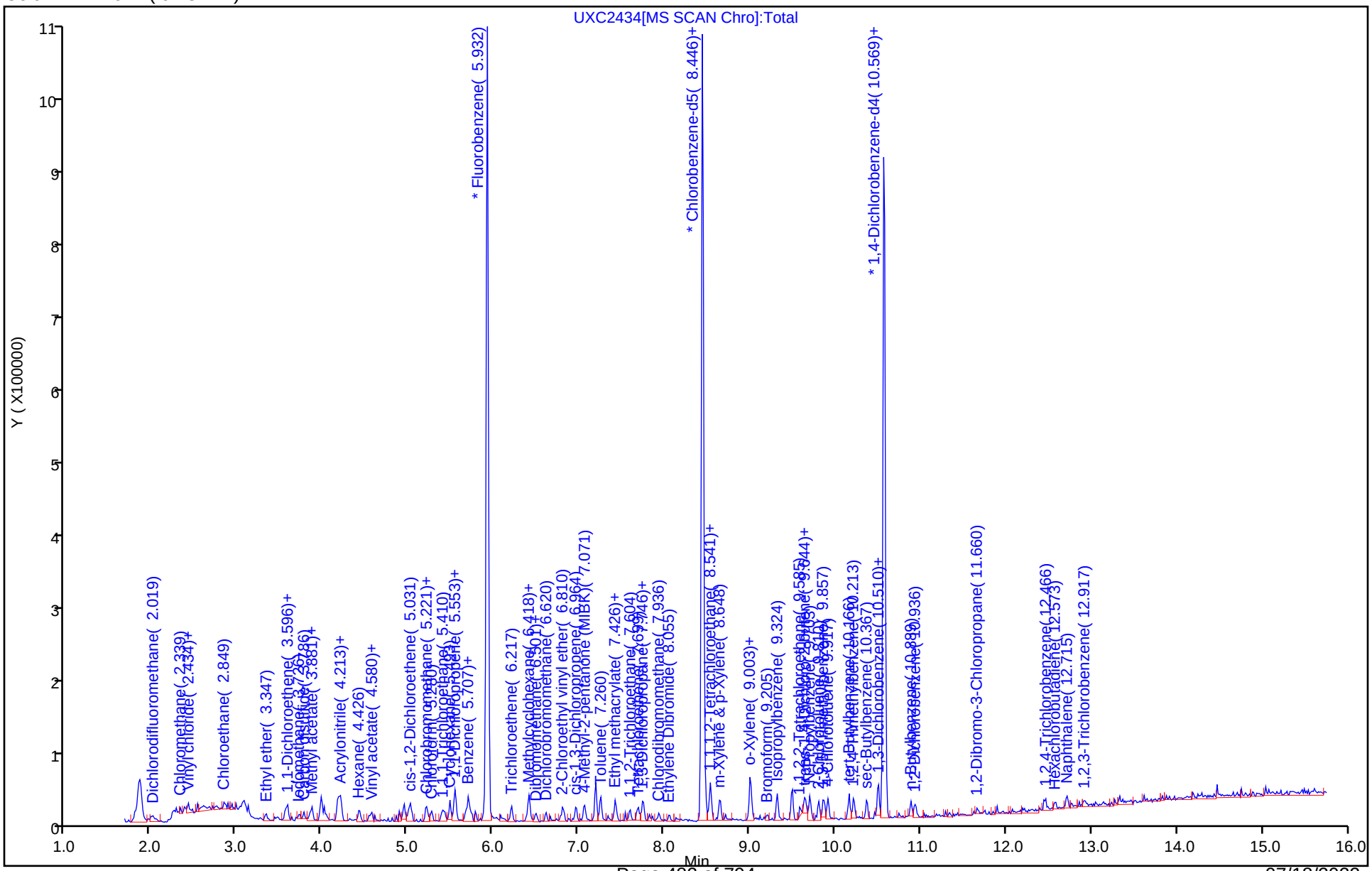
Report Date: 20-Jun-2022 10:42:10 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D

Injection Date:	17-Jun-2022 15:29:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	std8260 L1			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



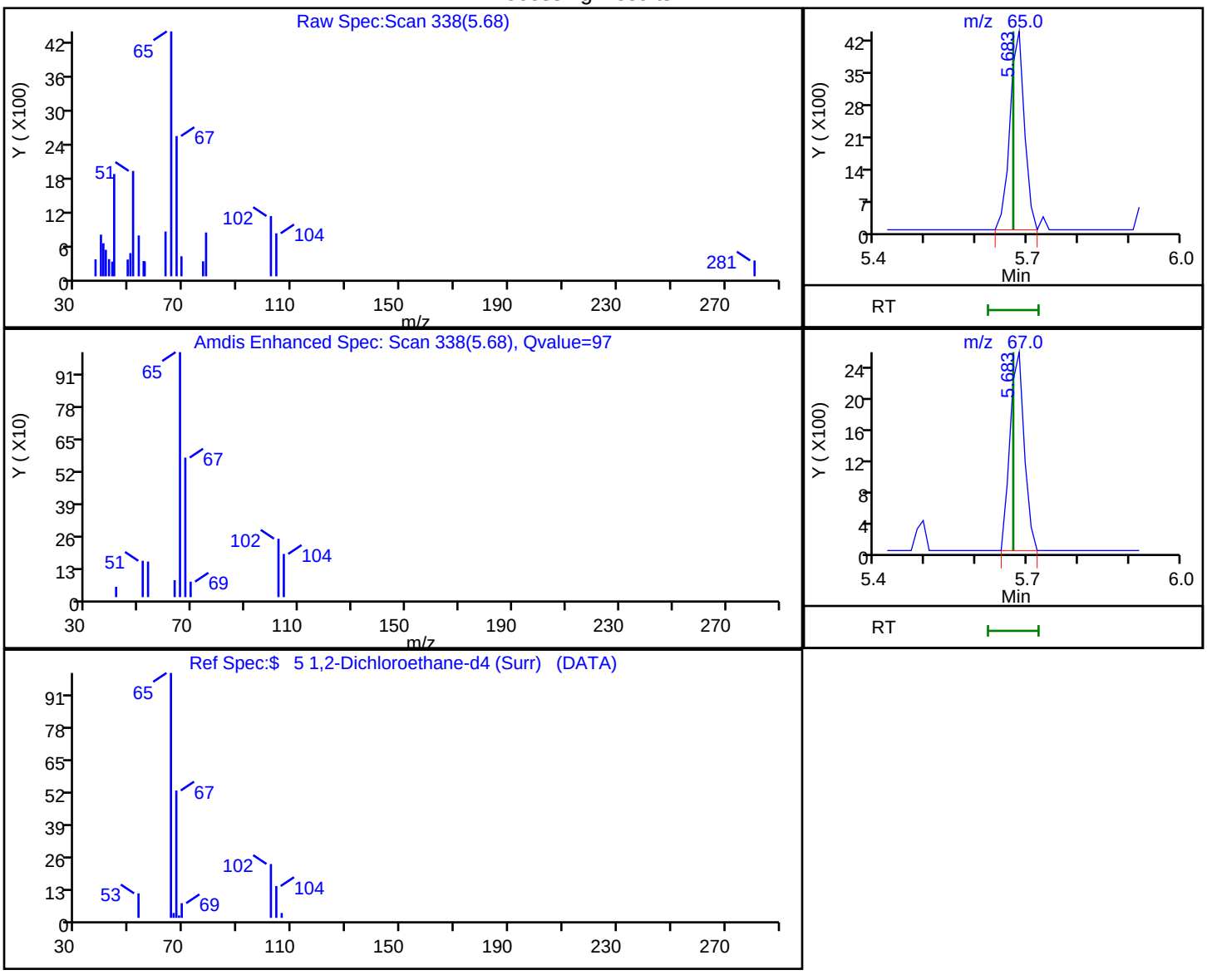
User Disabled Compound Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 5 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Processing Results



RT	Mass	Response	Amount
5.68	65.00	8704	0.615249
5.68	67.00	4914	

Reviewer: laveyt, 20-Jun-2022 10:23:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

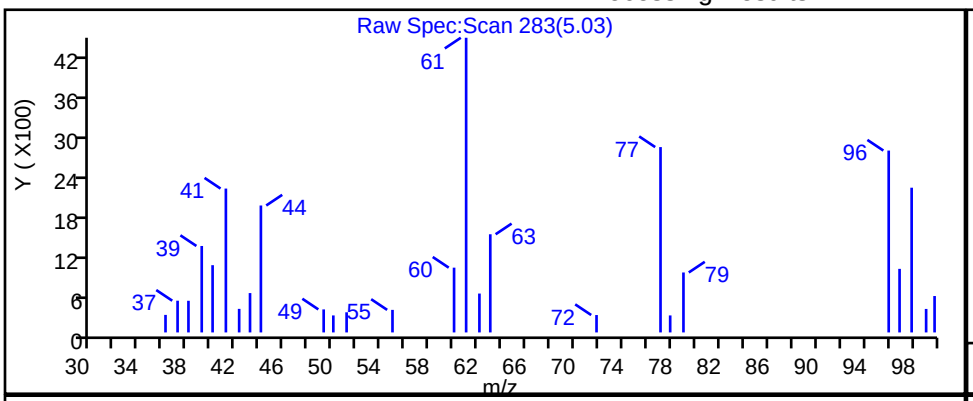
User Disabled Compound Report

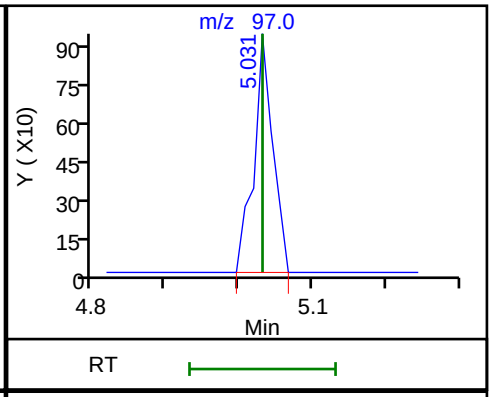
Eurofins Canton

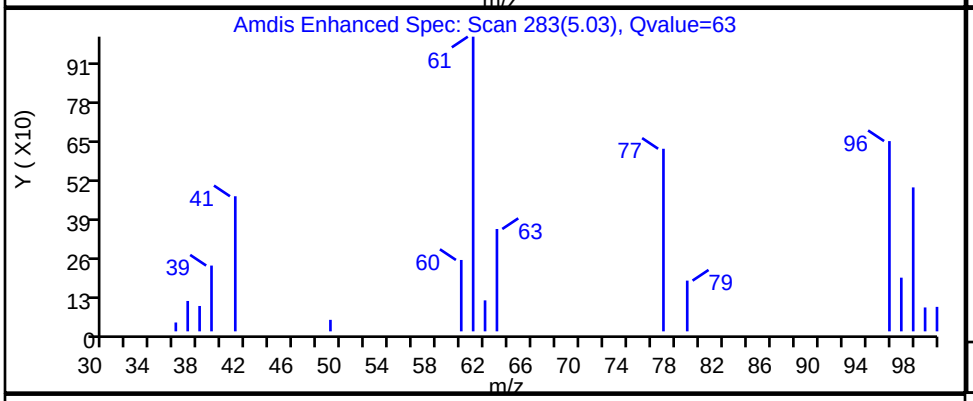
Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

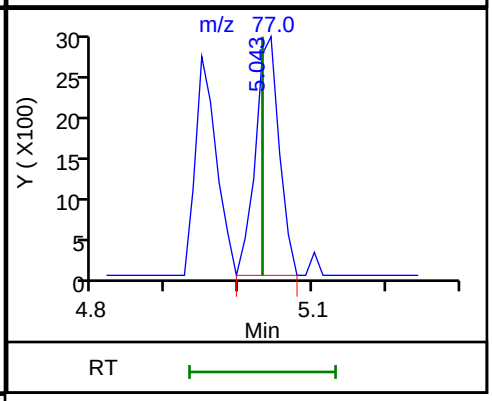
42 2,2-Dichloropropane, CAS: 594-20-7

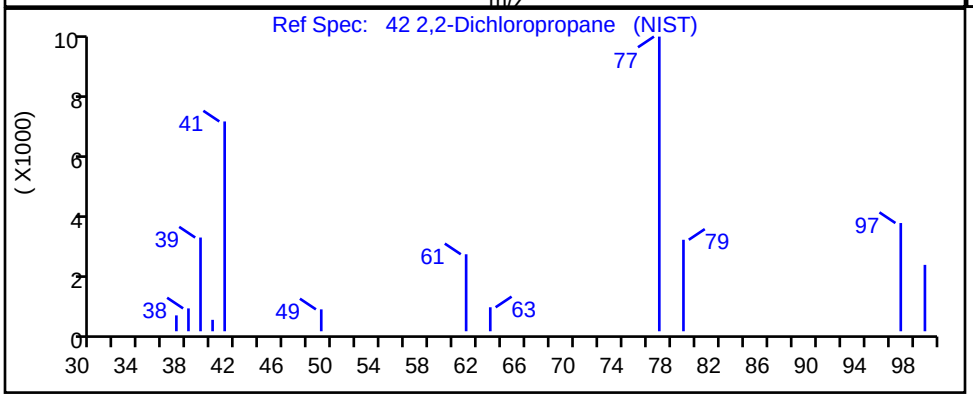
Processing Results











RT	Mass	Response	Amount
5.03	97.00	1699	0.613210
5.04	77.00	6725	

Reviewer: laveyt, 20-Jun-2022 10:28:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

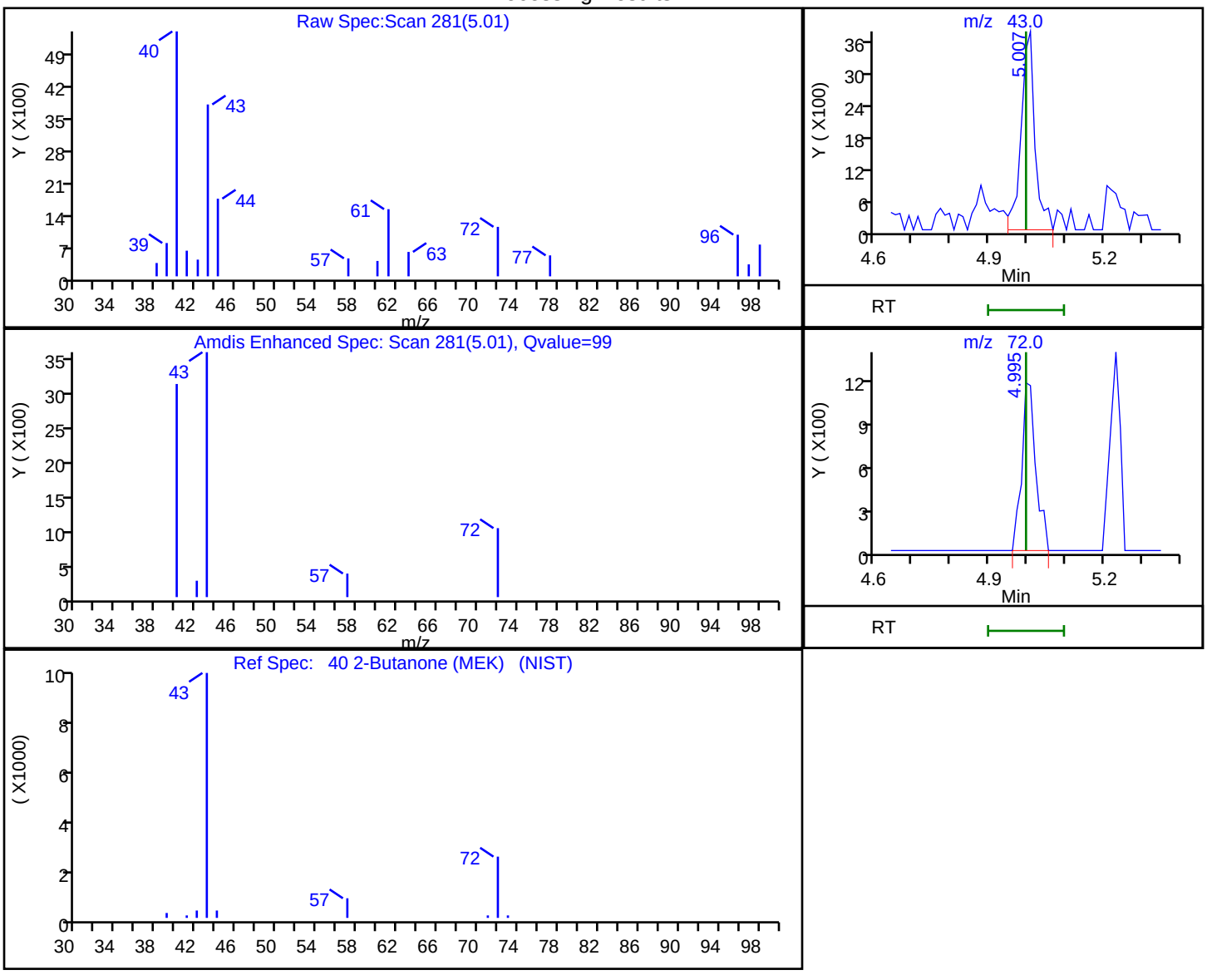
User Disabled Compound Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

40 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
5.01	43.00	9546	
5.00	72.00	2844	1.361762

Reviewer: laveyt, 20-Jun-2022 10:28:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

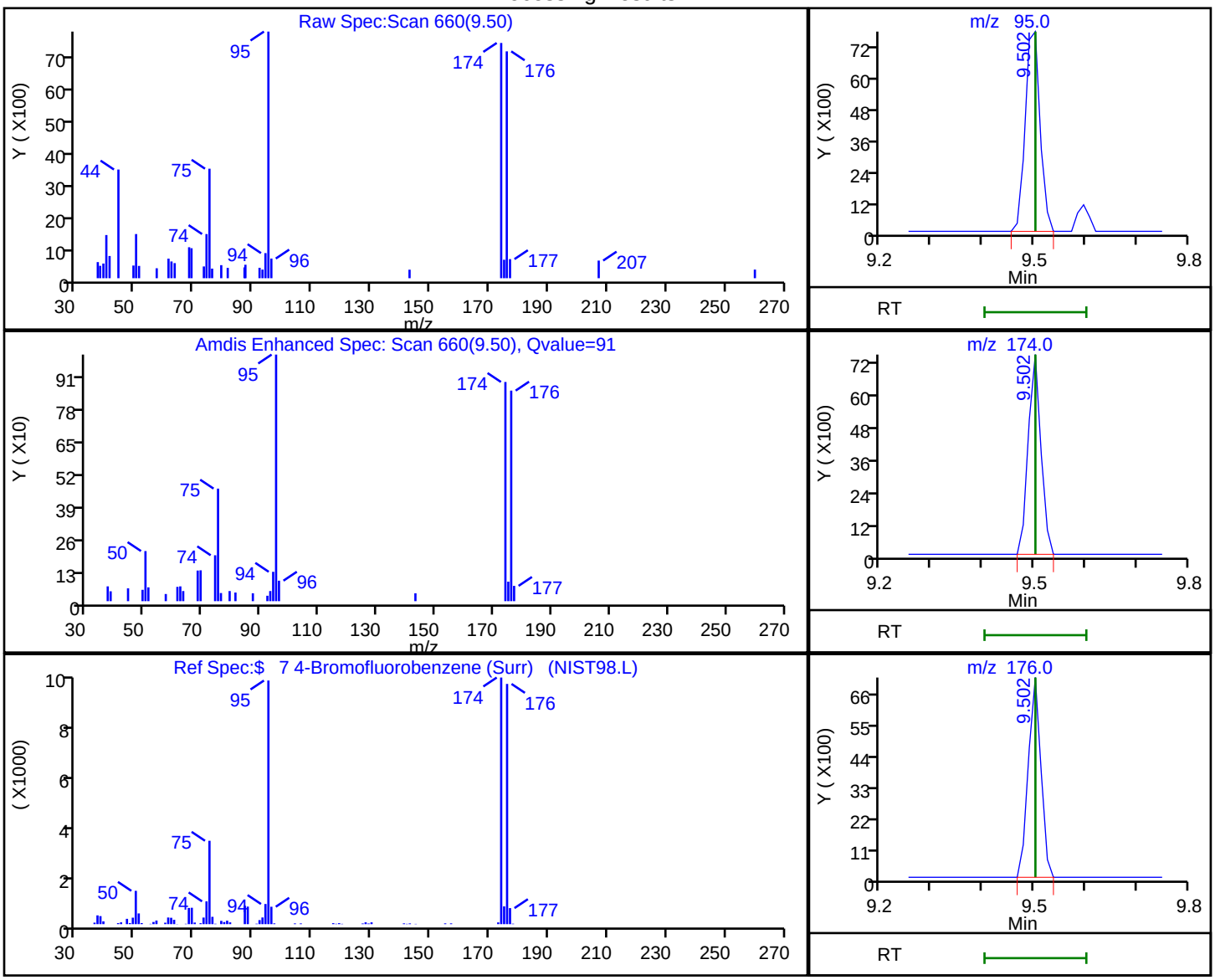
User Disabled Compound Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Processing Results



RT	Mass	Response	Amount
9.50	95.00	15818	0.638577
9.50	174.00	12847	
9.50	176.00	12283	

Reviewer: laveyt, 20-Jun-2022 10:24:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

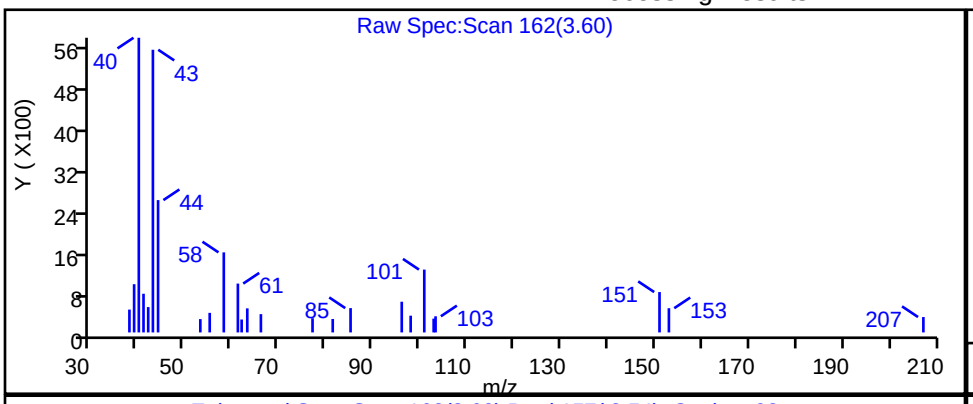
User Disabled Compound Report

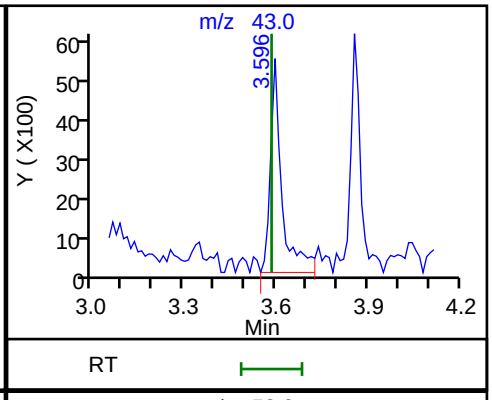
Eurofins Canton

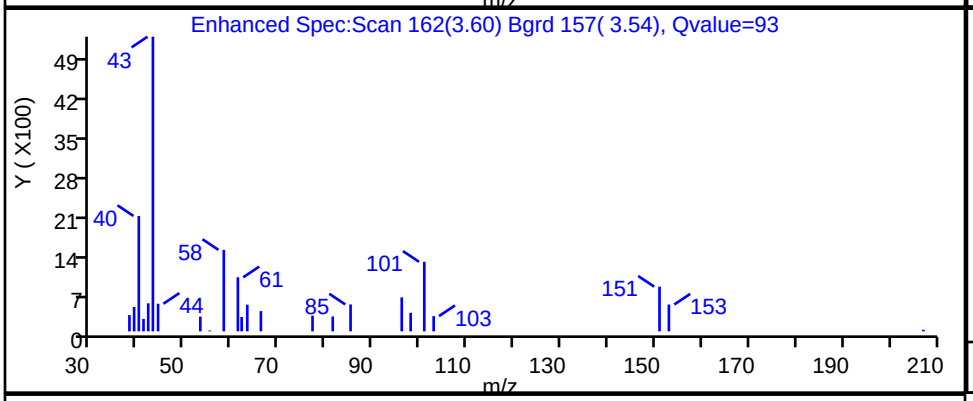
Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

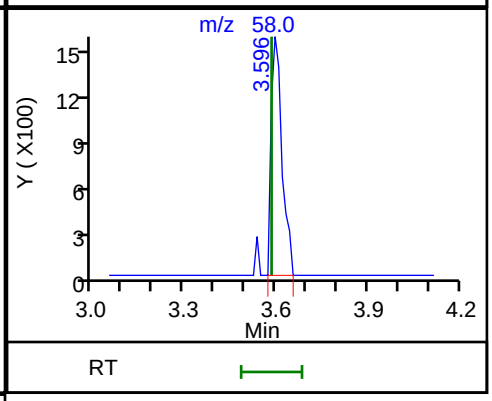
21 Acetone, CAS: 67-64-1

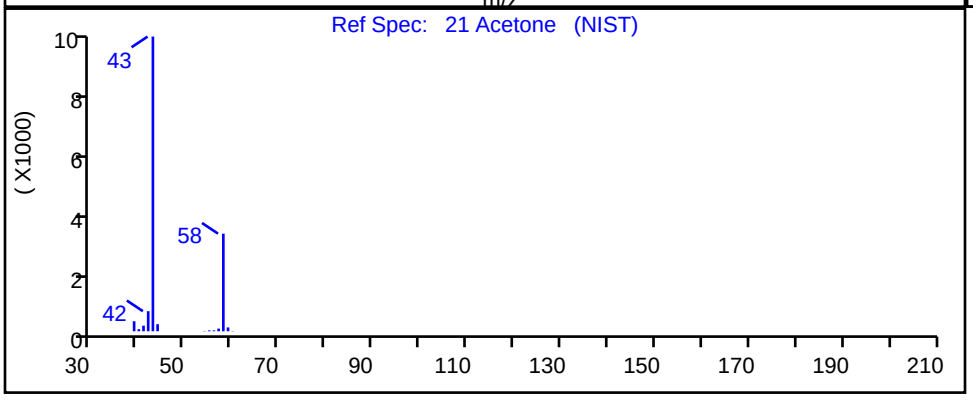
Processing Results











RT	Mass	Response	Amount
3.60	43.00	14399	2.585530
3.60	58.00	3873	

Reviewer: laveyt, 20-Jun-2022 10:25:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

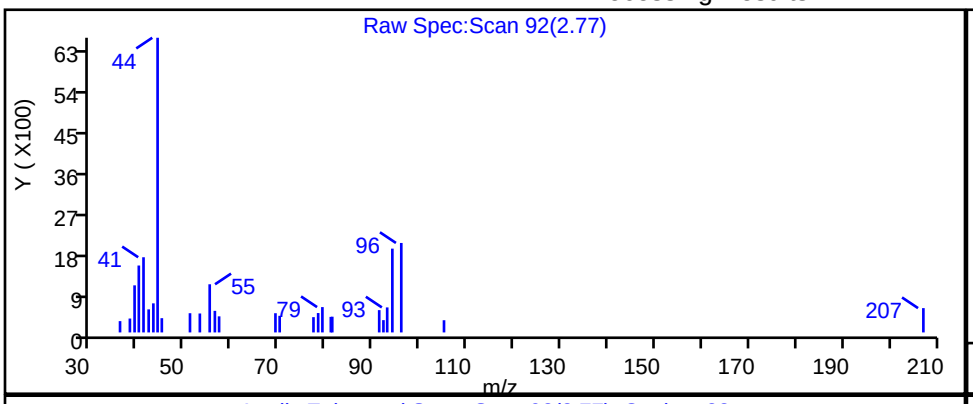
User Disabled Compound Report

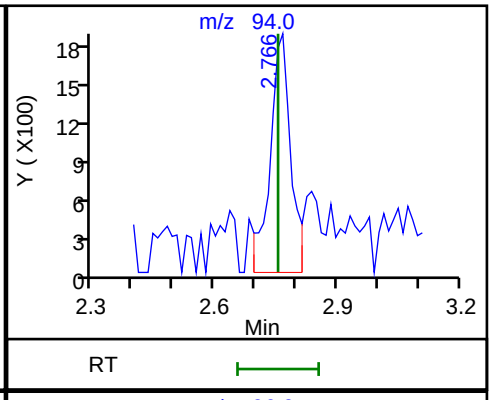
Eurofins Canton

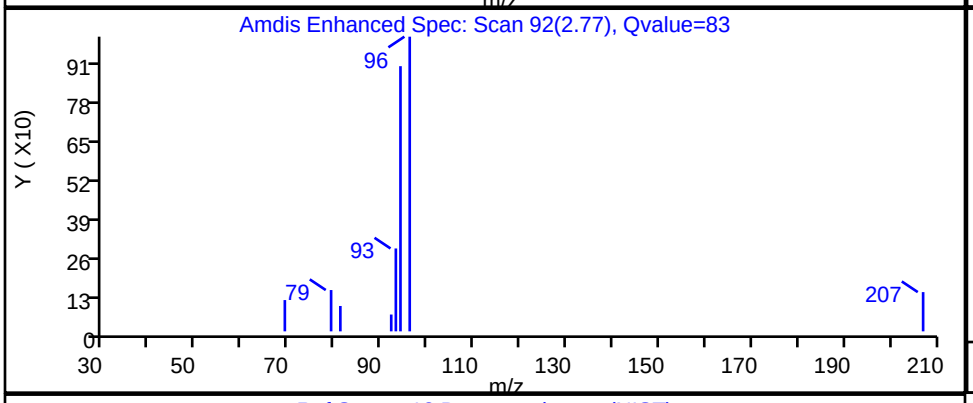
Data File:	\\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D				
Injection Date:	17-Jun-2022 15:29:30	Instrument ID:	A3UX15		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

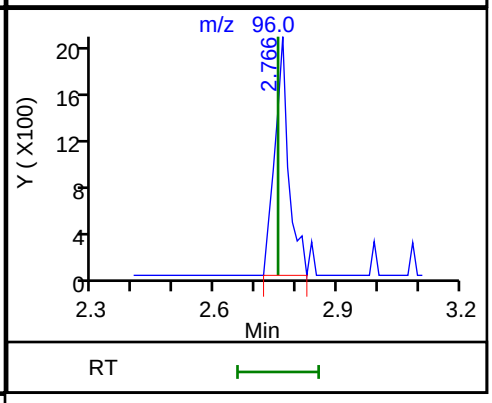
13 Bromomethane, CAS: 74-83-9

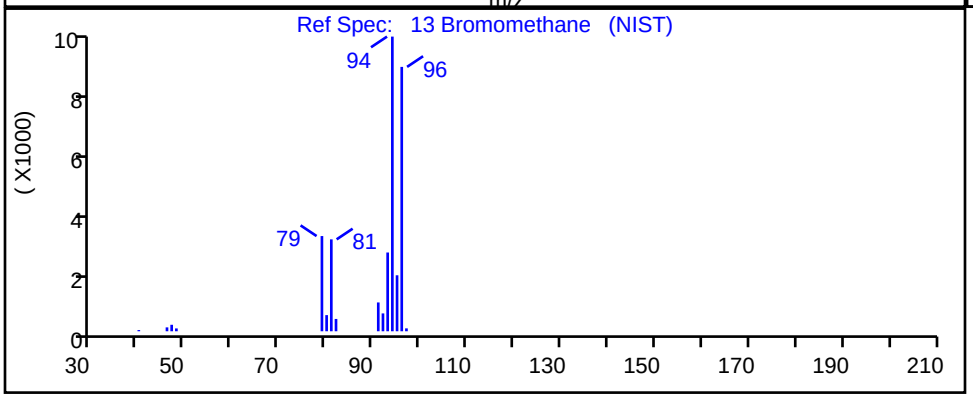
Processing Results











RT	Mass	Response	Amount
2.77	94.00	6675	0.648637
2.77	96.00	4750	

Reviewer: laveyt, 20-Jun-2022 10:25:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

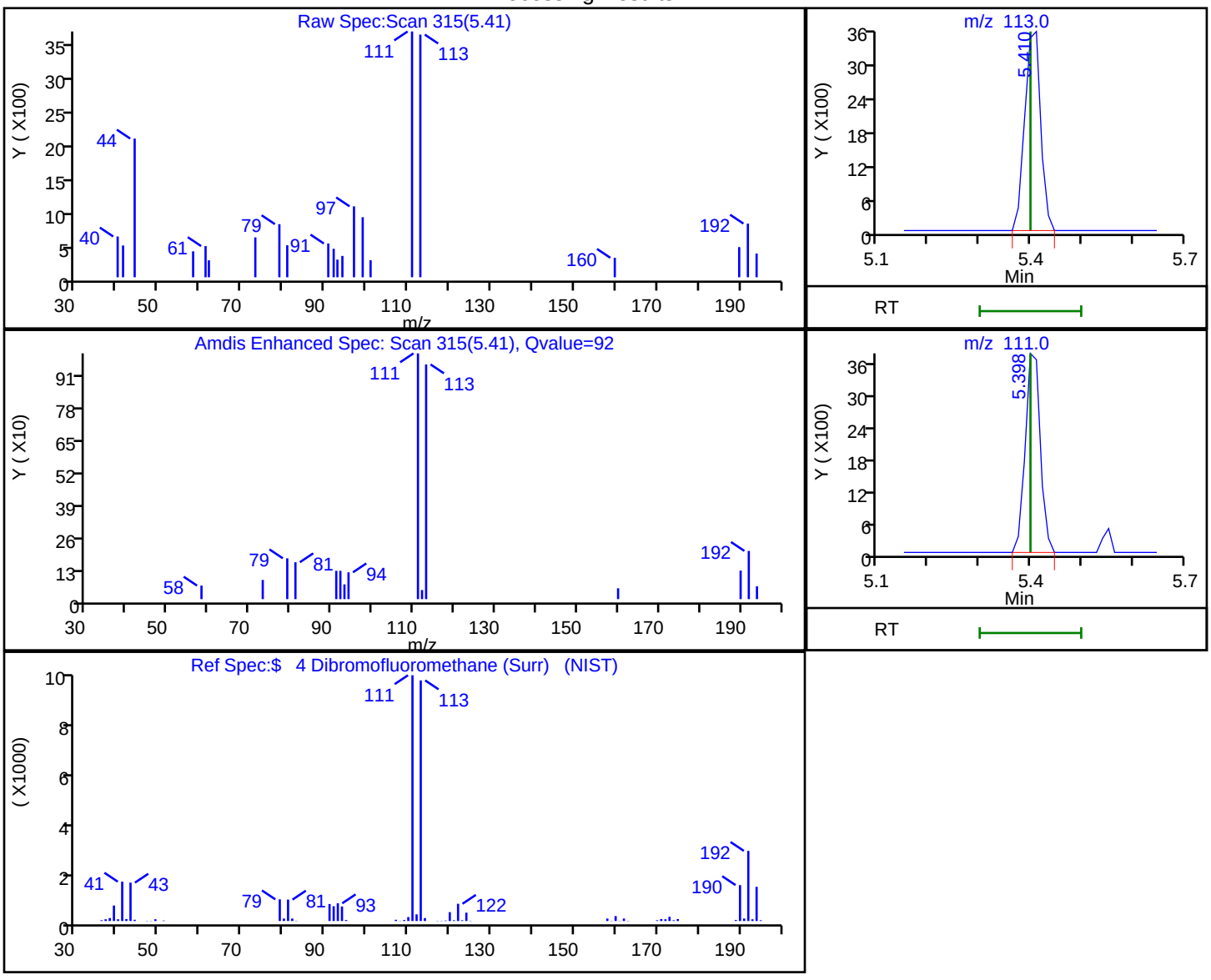
User Disabled Compound Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 4 Dibromofluoromethane (Surr), CAS: 1868-53-7

Processing Results



RT	Mass	Response	Amount
5.41	113.00	7858	0.682851
5.40	111.00	7785	

Reviewer: laveyt, 20-Jun-2022 10:23:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

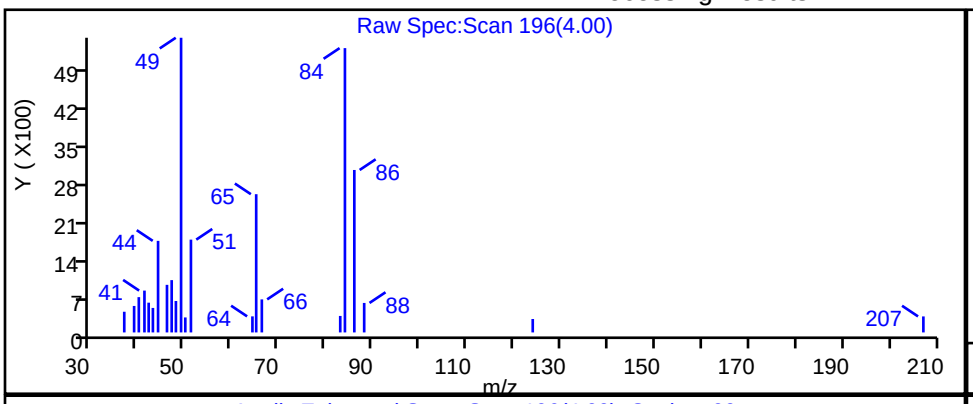
User Disabled Compound Report

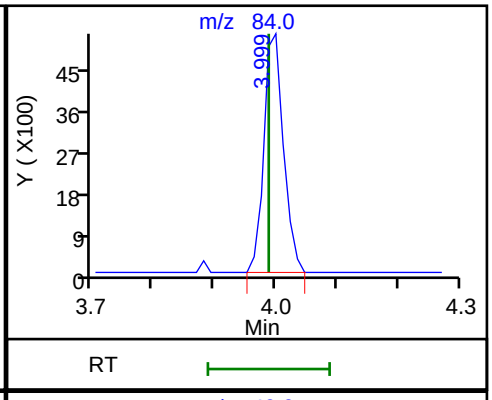
Eurofins Canton

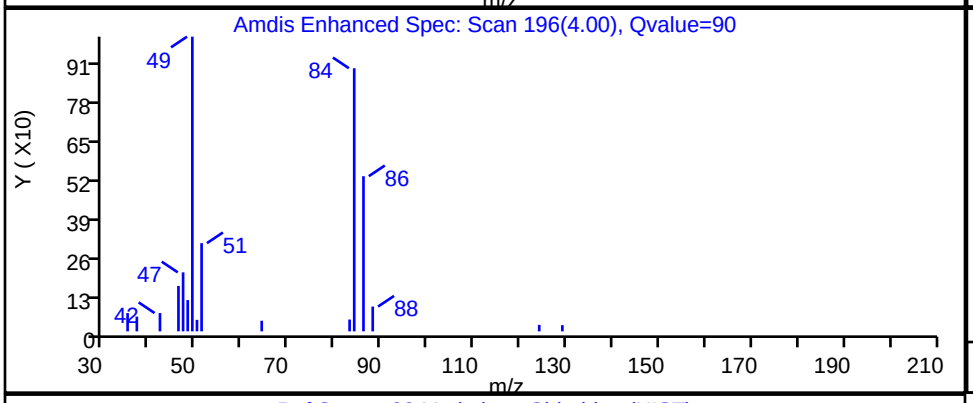
Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

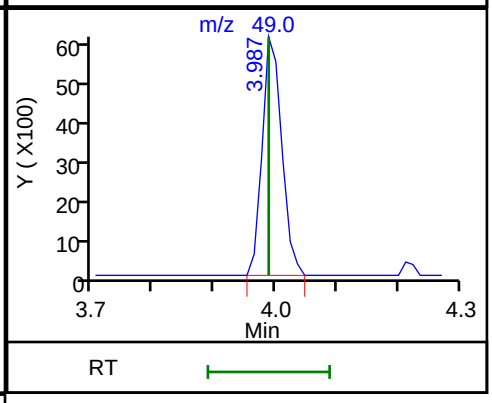
28 Methylene Chloride, CAS: 75-09-2

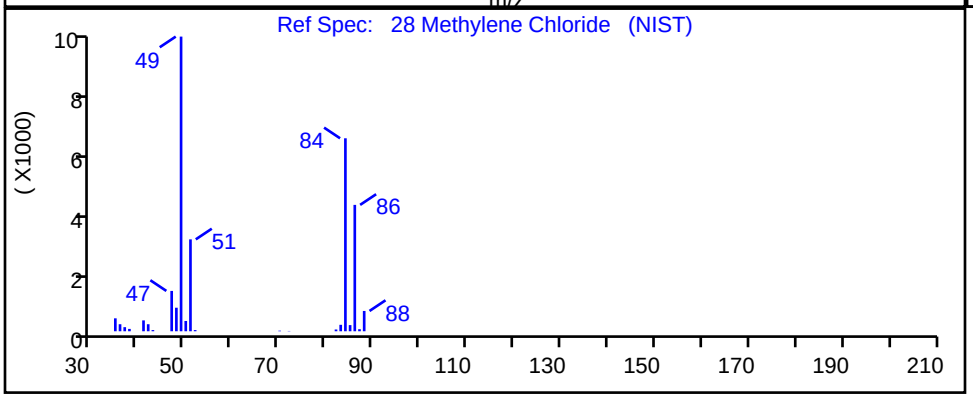
Processing Results











RT	Mass	Response	Amount
4.00	84.00	11823	0.519005
3.99	49.00	13653	

Reviewer: laveyt, 20-Jun-2022 10:26:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

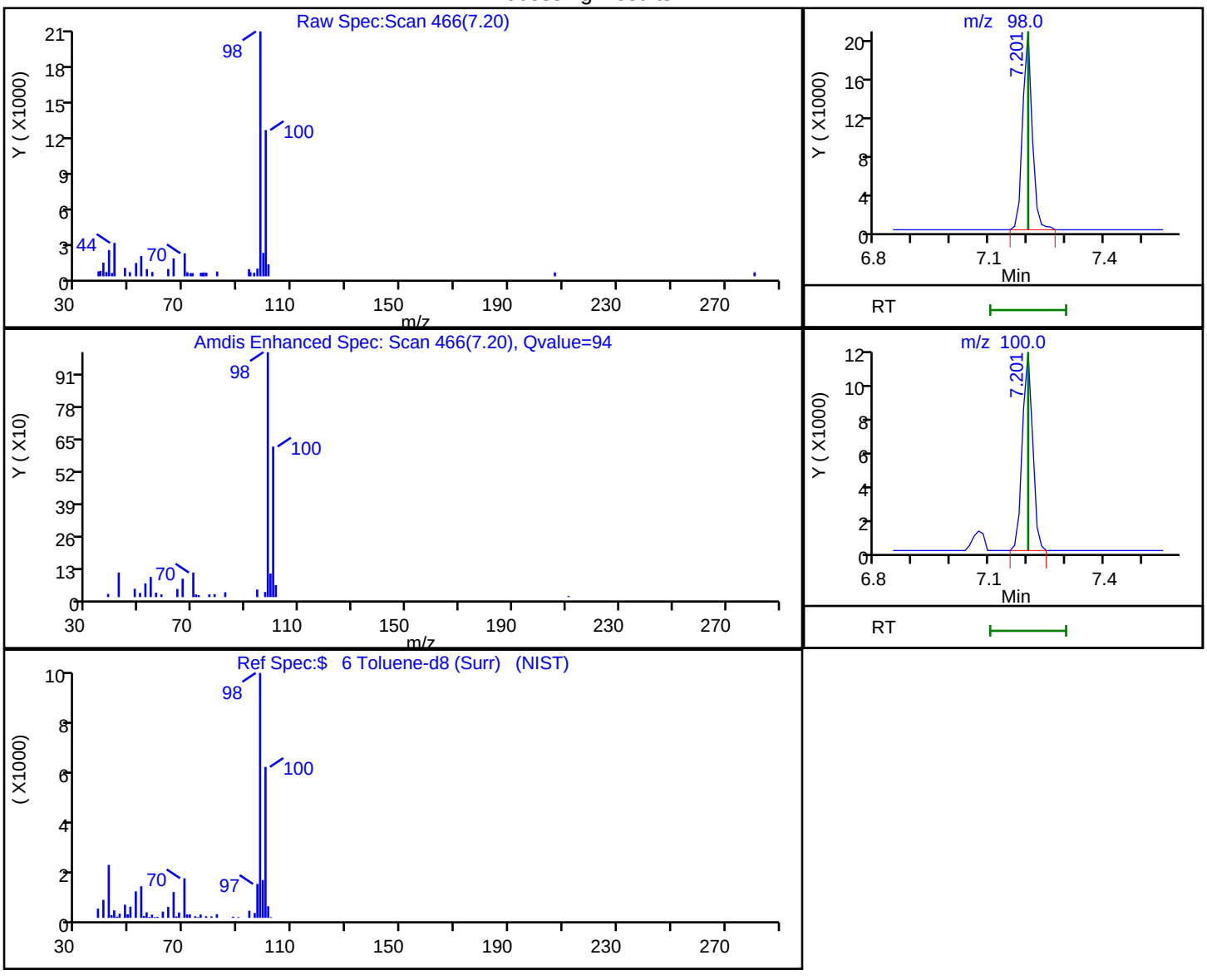
User Disabled Compound Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Processing Results



RT	Mass	Response	Amount
7.20	98.00	35004	0.733968
7.20	100.00	22480	

Reviewer: laveyt, 20-Jun-2022 10:23:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

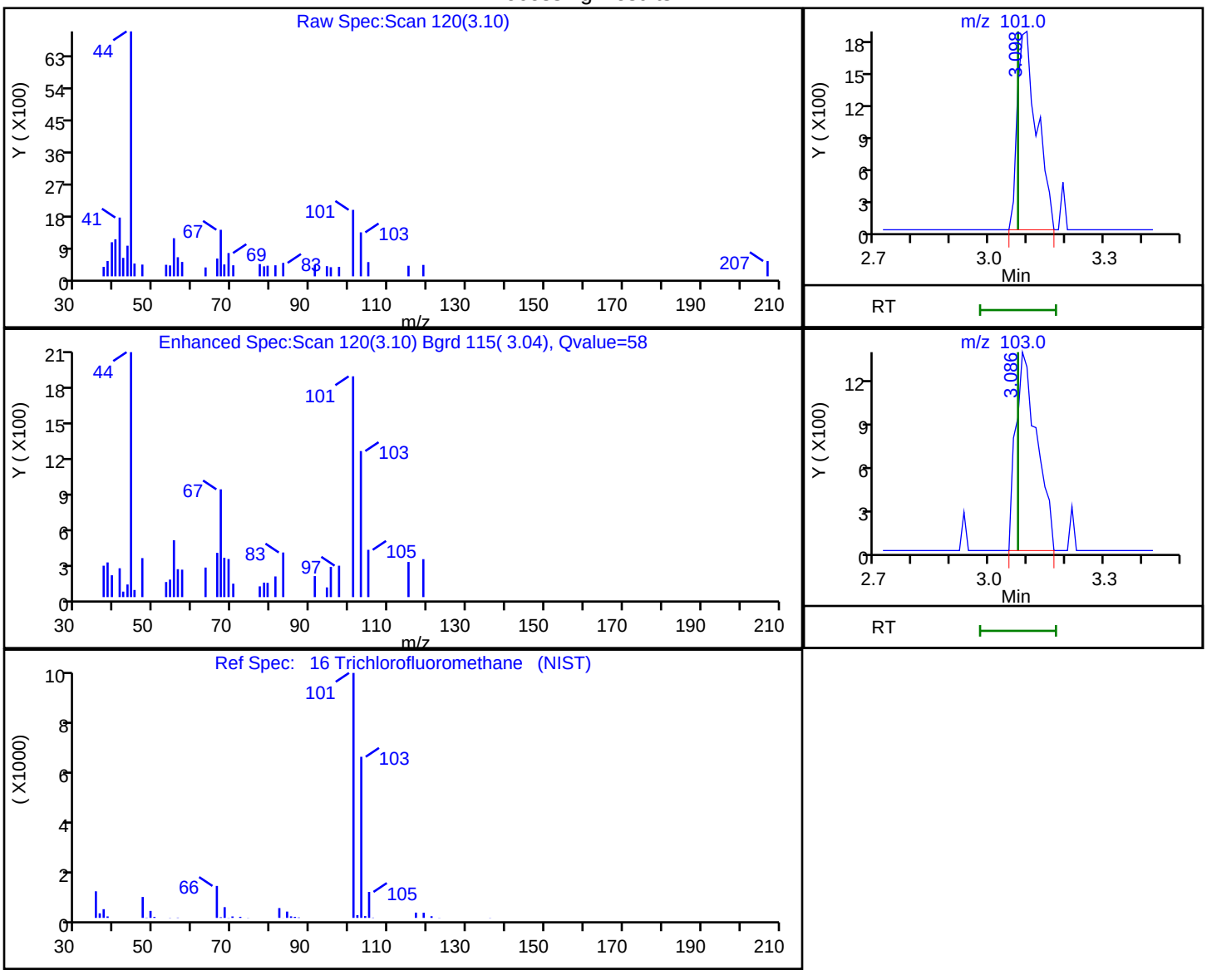
User Disabled Compound Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2434.D
Injection Date: 17-Jun-2022 15:29:30 Instrument ID: A3UX15
Lims ID: std8260 L1
Client ID:
Operator ID: 001904 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
3.10	101.00	6752	0.395675
3.09	103.00	5237	

Reviewer: laveyt, 20-Jun-2022 10:25:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2435.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Jun-2022 15:53:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-010
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:13 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:11:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	1011549	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	87	729295	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	96	331633	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	92	11010	1.00	0.9381	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	99	15956	1.00	1.08	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	50966	1.00	1.05	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.502	0.000	89	21872	1.00	1.28	
9 Dichlorodifluoromethane	85	2.043	2.043	-0.001	86	7774	1.00	0.7551	
10 Chloromethane	50	2.268	2.268	0.000	99	12753	1.00	0.9578	
11 Vinyl chloride	62	2.386	2.387	-0.001	97	13114	1.00	0.9617	
12 Butadiene	54	2.422	2.422	0.000	96	11537	1.00	0.8397	
13 Bromomethane	94	2.754	2.754	0.000	90	10681	1.00	1.01	
14 Chloroethane	64	2.849	2.849	0.000	97	8325	1.00	0.8414	
15 Dichlorofluoromethane	67	3.062	3.063	-0.001	96	19991	1.00	0.8913	
16 Trichlorofluoromethane	101	3.086	3.074	0.012	68	15329	1.00	0.8106	
17 Ethyl ether	59	3.335	3.335	0.000	91	9119	1.00	0.9043	
18 Acrolein	56	3.477	3.466	0.011	95	5812	5.00	4.64	
19 1,1-Dichloroethene	96	3.560	3.561	-0.001	98	9795	1.00	0.9661	
20 112TCTFE	151	3.572	3.572	0.000	67	5668	1.00	0.8158	
21 Acetone	43	3.596	3.584	0.012	99	15062	2.00	1.85	
22 Iodomethane	142	3.715	3.703	0.012	90	14948	1.00	0.9151	
24 Carbon disulfide	76	3.774	3.774	0.000	100	27012	1.00	0.9125	
27 Methyl acetate	43	3.857	3.857	0.000	98	25561	2.00	2.06	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	88	7267	1.00	0.8915	
28 Methylene Chloride	84	3.987	3.988	-0.001	90	18404	1.00	1.04	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	98	14119	10.0	10.1	
30 Acrylonitrile	53	4.177	4.177	0.000	98	46433	10.0	9.04	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	98	30923	1.00	0.9033	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	97	13628	1.00	1.02	
34 Hexane	86	4.438	4.426	0.012	93	2723	1.00	0.8847	
36 Vinyl acetate	43	4.545	4.545	0.000	97	19004	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.568	4.569	-0.001	97	19650	1.00	0.8986	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	96	4714	2.00	2.21	
41 cis-1,2-Dichloroethene	96	5.031	5.019	0.012	80	13668	1.00	1.01	
42 2,2-Dichloropropane	97	5.043	5.031	0.012	89	2709	1.00	0.9390	
46 Chlorobromomethane	128	5.221	5.209	0.012	91	5748	1.00	0.8771	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	10450	2.00	2.01	
48 Chloroform	83	5.280	5.268	0.012	94	19783	1.00	0.9303	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	96	16137	1.00	0.8822	
50 Cyclohexane	56	5.493	5.494	-0.001	90	15873	1.00	0.8546	
51 1,1-Dichloropropene	75	5.553	5.541	0.012	92	16921	1.00	0.9376	
52 Carbon tetrachloride	117	5.553	5.553	0.000	88	14669	1.00	0.8863	
53 Isobutyl alcohol	41	5.553	5.553	0.000	87	13367	25.0	23.9	
55 Benzene	78	5.707	5.707	0.000	97	45289	1.00	0.9023	
56 1,2-Dichloroethane	62	5.742	5.743	-0.001	97	15872	1.00	0.9386	
58 n-Heptane	100	5.897	5.885	0.012	91	2642	1.00	0.9438	
60 Trichloroethene	130	6.217	6.217	0.000	95	12567	1.00	0.8897	
62 Methylcyclohexane	83	6.406	6.407	-0.001	89	14512	1.00	0.8026	
63 1,2-Dichloropropane	63	6.418	6.419	0.000	91	10963	1.00	0.9327	
66 1,4-Dioxane	88	6.466	6.466	0.000	33	1999	20.0	16.8	
65 Dibromomethane	93	6.501	6.502	-0.001	94	6989	1.00	0.9382	
67 Dichlorobromomethane	83	6.620	6.620	0.000	97	13623	1.00	0.8736	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	16111	2.00	1.83	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	92	17349	1.00	0.9084	
71 4-Methyl-2-pentanone (MIBK)	43	7.071	7.071	-0.001	97	28874	2.00	1.83	
72 Toluene	91	7.260	7.260	0.000	97	48927	1.00	0.9029	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	94	15508	1.00	0.8699	
74 Ethyl methacrylate	69	7.438	7.438	0.000	87	16360	1.00	0.9559	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	92	9747	1.00	0.9337	
76 Tetrachloroethene	164	7.699	7.699	0.000	92	9141	1.00	0.8667	
77 1,3-Dichloropropane	76	7.746	7.747	-0.001	93	17462	1.00	0.9489	
78 2-Hexanone	43	7.758	7.759	-0.001	98	22447	2.00	1.91	
80 Chlorodibromomethane	129	7.936	7.936	0.000	91	10050	1.00	0.8736	
82 Ethylene Dibromide	107	8.055	8.055	0.000	64	10071	1.00	0.8911	
84 Chlorobenzene	112	8.470	8.482	-0.012	96	31069	1.00	0.9336	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	9176	1.00	0.8451	
86 Ethylbenzene	106	8.541	8.541	0.000	97	17201	1.00	0.9384	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	95	38743	1.00	0.8981	
88 o-Xylene	106	9.003	9.004	-0.001	96	18287	1.00	0.8813	
89 Styrene	104	9.015	9.016	-0.001	92	29956	1.00	0.8461	
90 Bromoform	173	9.205	9.205	0.000	92	6632	1.00	0.8067	
91 Isopropylbenzene	105	9.324	9.324	0.000	96	44938	1.00	0.8798	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	94	12388	1.00	0.9489	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	72	4546	1.00	0.9604	
95 Bromobenzene	156	9.644	9.644	0.000	93	11284	1.00	0.9083	
96 1,2,3-Trichloropropane	110	9.668	9.668	0.000	82	4403	1.00	0.9563	
98 N-Propylbenzene	120	9.703	9.703	0.000	99	11741	1.00	0.8681	
99 2-Chlorotoluene	126	9.810	9.810	0.000	99	10401	1.00	0.9121	
101 1,3,5-Trimethylbenzene	105	9.869	9.857	0.012	94	33610	1.00	0.9119	
102 4-Chlorotoluene	91	9.917	9.917	0.000	96	32285	1.00	0.9214	
104 tert-Butylbenzene	119	10.166	10.166	0.000	93	29499	1.00	0.9181	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	31829	1.00	0.8696	
107 sec-Butylbenzene	105	10.367	10.367	0.000	93	36648	1.00	0.8706	

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	10.509	10.510	-0.001	78	19377	1.00	0.9134	
109 4-Isopropyltoluene	119	10.509	10.510	-0.001	96	30738	1.00	0.8525	
110 1,4-Dichlorobenzene	146	10.592	10.593	-0.001	95	20278	1.00	0.9341	
113 n-Butylbenzene	91	10.889	10.889	0.000	96	25513	1.00	0.8894	
114 1,2-Dichlorobenzene	146	10.948	10.937	0.011	97	17601	1.00	0.9350	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.684	-0.012	86	3402	1.00	1.05	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	92	7720	1.00	0.9093	
118 Hexachlorobutadiene	225	12.585	12.573	0.012	91	3133	1.00	0.8238	
119 Naphthalene	128	12.715	12.715	0.000	97	26809	1.00	0.8887	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	94	6533	1.00	0.8827	
S 130 Total BTEX	1				0		5.00	4.52	
S 131 Trihalomethanes, Total	1				0		4.00	3.48	
S 127 1,2-Dichloroethene, Total	96				0			2.03	
S 128 1,3-Dichloropropene, Total	75				0			1.78	
S 129 Xylenes, Total	106				0		2.00	1.78	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmrgas_00430	Amount Added:	0.80	Units: uL
vmarolistdw_00442	Amount Added:	0.80	Units: uL
vmrprimw_00486	Amount Added:	0.80	Units: uL
vm50ss_stk_00091	Amount Added:	0.80	Units: uL

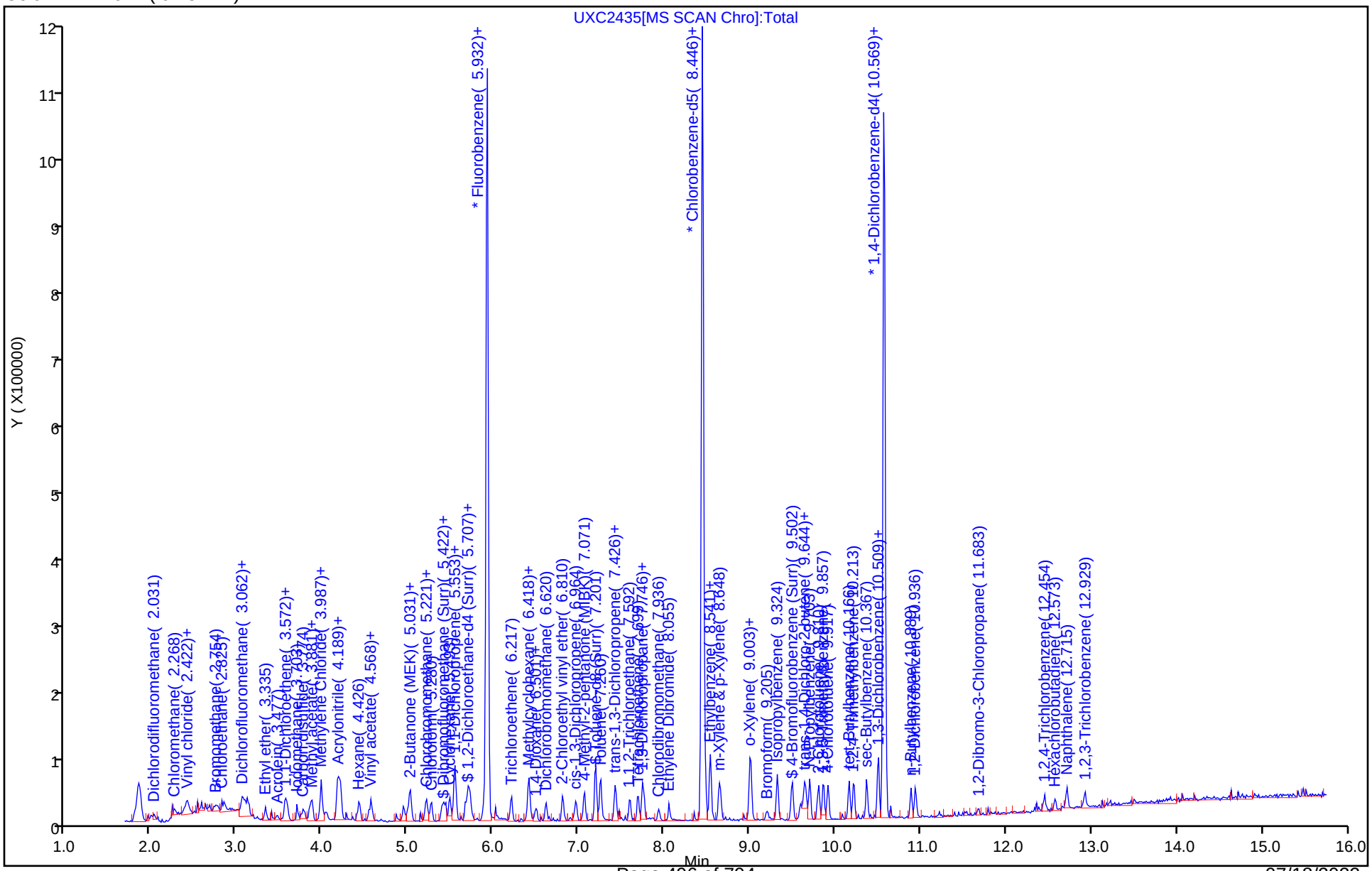
Report Date: 20-Jun-2022 10:42:14 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2435.D

Injection Date:	17-Jun-2022 15:53:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	std8260 L2			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2436.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Jun-2022 16:16:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-011
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:17 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:15:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	983573	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	87	709977	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	325636	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	94	21268	2.00	1.86	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	99	27934	2.00	1.95	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	93784	2.00	1.98	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.502	0.000	89	33869	2.00	2.04	
9 Dichlorodifluoromethane	85	2.031	2.043	-0.012	99	17264	2.00	1.72	
10 Chloromethane	50	2.268	2.268	0.000	99	25555	2.00	1.97	
11 Vinyl chloride	62	2.386	2.387	-0.001	96	25146	2.00	1.90	
12 Butadiene	54	2.422	2.422	0.000	98	25005	2.00	1.87	
13 Bromomethane	94	2.754	2.754	0.000	92	19568	2.00	1.90	
14 Chloroethane	64	2.849	2.849	0.000	99	18014	2.00	1.87	
15 Dichlorofluoromethane	67	3.051	3.063	-0.013	96	38427	2.00	1.76	
16 Trichlorofluoromethane	101	3.086	3.074	0.012	95	28954	2.00	1.57	
17 Ethyl ether	59	3.335	3.335	0.000	89	19310	2.00	1.97	
18 Acrolein	56	3.466	3.466	0.000	97	9877	10.0	8.11	
19 1,1-Dichloroethene	96	3.560	3.561	-0.001	97	18690	2.00	1.90	
20 112TCTFE	151	3.572	3.572	0.000	90	11721	2.00	1.74	
21 Acetone	43	3.584	3.584	0.000	98	22402	4.00	4.06	
22 Iodomethane	142	3.703	3.703	0.000	98	30192	2.00	1.90	
24 Carbon disulfide	76	3.774	3.774	0.000	99	54214	2.00	1.88	
27 Methyl acetate	43	3.857	3.857	0.000	97	46169	4.00	3.83	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	88	13903	2.00	1.75	
28 Methylene Chloride	84	3.987	3.988	-0.001	92	29288	2.00	2.05	
29 2-Methyl-2-propanol	59	4.035	4.047	-0.012	98	28092	20.0	20.8	
30 Acrylonitrile	53	4.177	4.177	0.000	99	95212	20.0	19.1	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	97	62130	2.00	1.87	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	97	24453	2.00	1.88	
34 Hexane	86	4.426	4.426	0.000	93	4517	2.00	1.51	
36 Vinyl acetate	43	4.545	4.545	0.000	97	38846	2.00	2.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.568	4.569	-0.001	96	39107	2.00	1.84	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	8428	4.00	4.07	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	84	24915	2.00	1.89	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	88	5642	2.00	2.01	
46 Chlorobromomethane	128	5.209	5.209	0.000	95	11477	2.00	1.80	
47 Tetrahydrofuran	42	5.221	5.221	0.000	85	19154	4.00	3.80	
48 Chloroform	83	5.268	5.268	0.000	92	38448	2.00	1.86	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	32148	2.00	1.81	
50 Cyclohexane	56	5.493	5.494	-0.001	91	33245	2.00	1.84	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	95	31533	2.00	1.80	
52 Carbon tetrachloride	117	5.553	5.553	0.000	90	29693	2.00	1.85	
53 Isobutyl alcohol	41	5.553	5.553	0.000	87	26767	50.0	49.3	
55 Benzene	78	5.707	5.707	0.000	97	91776	2.00	1.88	
56 1,2-Dichloroethane	62	5.731	5.743	-0.012	97	31257	2.00	1.90	
58 n-Heptane	100	5.897	5.885	0.012	86	4477	2.00	1.64	
60 Trichloroethene	130	6.217	6.217	0.000	96	25445	2.00	1.85	
62 Methylcyclohexane	83	6.406	6.407	-0.001	90	31606	2.00	1.80	
63 1,2-Dichloropropane	63	6.418	6.419	0.000	93	21960	2.00	1.92	
66 1,4-Dioxane	88	6.466	6.466	0.000	61	4580	40.0	39.5	
65 Dibromomethane	93	6.501	6.502	-0.001	93	13839	2.00	1.91	
67 Dichlorobromomethane	83	6.620	6.620	0.000	98	27670	2.00	1.82	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	29955	4.00	3.50	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	94	34621	2.00	1.86	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.071	-0.012	97	61757	4.00	4.03	
72 Toluene	91	7.260	7.260	0.000	98	99230	2.00	1.88	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	95	31172	2.00	1.80	
74 Ethyl methacrylate	69	7.426	7.438	-0.012	88	30180	2.00	1.81	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	92	18463	2.00	1.82	
76 Tetrachloroethene	164	7.699	7.699	0.000	92	18472	2.00	1.80	
77 1,3-Dichloropropane	76	7.746	7.747	-0.001	94	33002	2.00	1.84	
78 2-Hexanone	43	7.746	7.759	-0.013	93	42918	4.00	3.75	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	20926	2.00	1.87	
82 Ethylene Dibromide	107	8.055	8.055	0.000	99	20664	2.00	1.88	
84 Chlorobenzene	112	8.470	8.482	-0.012	96	60738	2.00	1.87	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	43	18714	2.00	1.77	
86 Ethylbenzene	106	8.541	8.541	0.000	98	31924	2.00	1.79	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	75535	2.00	1.80	
88 o-Xylene	106	9.003	9.004	-0.001	96	37343	2.00	1.85	
89 Styrene	104	9.015	9.016	-0.001	93	62927	2.00	1.83	
90 Bromoform	173	9.205	9.205	0.000	92	13554	2.00	1.69	
91 Isopropylbenzene	105	9.324	9.324	0.000	96	91451	2.00	1.84	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	95	26311	2.00	2.05	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	70	8803	2.00	1.89	
95 Bromobenzene	156	9.644	9.644	0.000	96	21947	2.00	1.80	
96 1,2,3-Trichloropropane	110	9.668	9.668	0.000	81	8515	2.00	1.88	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	24277	2.00	1.83	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	21604	2.00	1.93	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	94	69569	2.00	1.92	
102 4-Chlorotoluene	91	9.917	9.917	0.000	98	64946	2.00	1.89	
104 tert-Butylbenzene	119	10.166	10.166	0.000	93	60213	2.00	1.91	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	67417	2.00	1.88	
107 sec-Butylbenzene	105	10.367	10.367	0.000	95	75893	2.00	1.84	

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	10.509	10.510	-0.001	74	39153	2.00	1.88	
109 4-Isopropyltoluene	119	10.509	10.510	-0.001	97	65463	2.00	1.85	
110 1,4-Dichlorobenzene	146	10.593	10.593	-0.001	93	39461	2.00	1.85	
113 n-Butylbenzene	91	10.889	10.889	0.000	98	53959	2.00	1.92	
114 1,2-Dichlorobenzene	146	10.936	10.937	-0.001	98	35155	2.00	1.90	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.684	-0.012	79	6507	2.00	2.04	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	93	15536	2.00	1.86	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	91	7210	2.00	1.93	
119 Naphthalene	128	12.715	12.715	0.000	97	55454	2.00	1.87	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	96	13020	2.00	1.79	
S 130 Total BTEX	1				0		10.0	9.20	
S 131 Trihalomethanes, Total	1				0		8.00	7.25	
S 127 1,2-Dichloroethene, Total	96				0			3.77	
S 128 1,3-Dichloropropene, Total	75				0			3.66	
S 129 Xylenes, Total	106				0		4.00	3.65	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmrgas_00430	Amount Added:	1.60	Units: uL
vmarolistdw_00442	Amount Added:	1.60	Units: uL
vmrprimw_00486	Amount Added:	1.60	Units: uL
vm50ss_stk_00091	Amount Added:	1.60	Units: uL

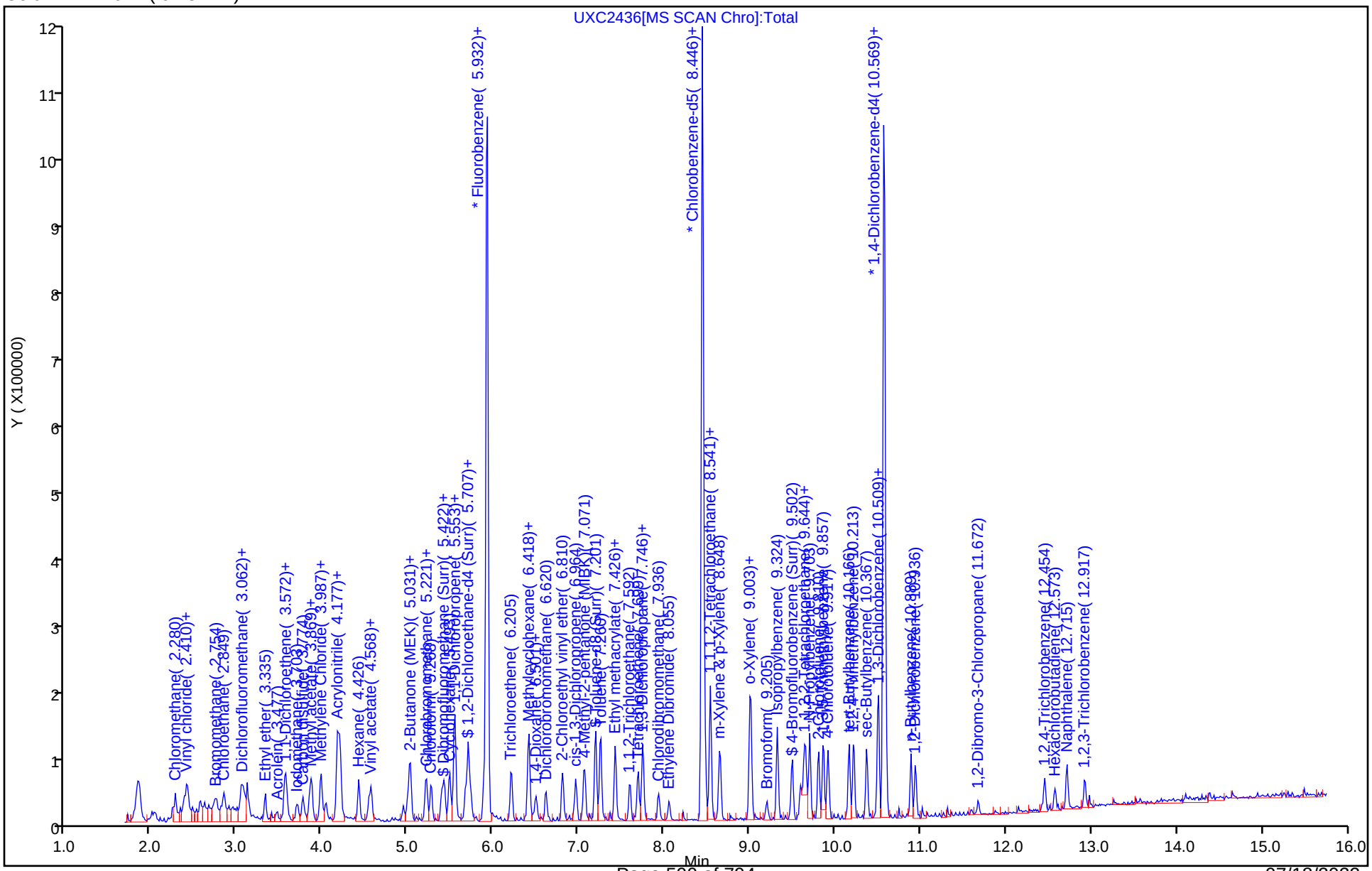
Report Date: 20-Jun-2022 10:42:18 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2436.D

Injection Date:	17-Jun-2022 16:16:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	std8260 L3			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2437.D
Lims ID: std8260 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Jun-2022 16:40:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-012
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:24 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:16:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	1018383	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	734404	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	344843	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	94	116104	10.0	9.83	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	147856	10.0	9.98	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	94	485341	10.0	9.89	
$ 7 4-Bromofluorobenzene (Surr)	95	9.501	9.502	-0.001	93	160726	10.0	9.37	
9 Dichlorodifluoromethane	85	2.042	2.043	-0.001	99	113138	10.0	10.9	
10 Chloromethane	50	2.280	2.268	0.012	99	128847	10.0	9.61	
11 Vinyl chloride	62	2.386	2.387	-0.001	98	139965	10.0	10.2	
12 Butadiene	54	2.422	2.422	0.000	99	147637	10.0	10.7	
13 Bromomethane	94	2.754	2.754	0.000	91	99422	10.0	9.31	
14 Chloroethane	64	2.849	2.849	0.000	99	92399	10.0	9.28	
15 Dichlorofluoromethane	67	3.062	3.063	-0.001	98	215728	10.0	9.55	
16 Trichlorofluoromethane	101	3.086	3.074	0.012	97	193834	10.0	10.2	
17 Ethyl ether	59	3.335	3.335	0.000	89	97667	10.0	9.62	
18 Acrolein	56	3.477	3.466	0.011	99	59355	50.0	47.1	
19 1,1-Dichloroethene	96	3.572	3.561	0.011	98	99803	10.0	9.78	
20 112TCTFE	151	3.584	3.572	0.012	88	71946	10.0	10.3	
21 Acetone	43	3.596	3.584	0.012	100	79520	20.0	19.5	
22 Iodomethane	142	3.715	3.703	0.011	98	158829	10.0	9.66	
24 Carbon disulfide	76	3.774	3.774	0.000	100	290403	10.0	9.74	
27 Methyl acetate	43	3.857	3.857	0.000	98	234112	20.0	18.8	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	89	79002	10.0	9.63	
28 Methylene Chloride	84	3.987	3.988	-0.001	93	115259	10.0	9.36	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	99	135196	100.0	96.5	
30 Acrylonitrile	53	4.177	4.177	0.000	99	516888	100.0	100.0	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	96	334213	10.0	9.70	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	99	122786	10.0	9.11	
34 Hexane	86	4.438	4.426	0.012	92	30567	10.0	9.86	
36 Vinyl acetate	43	4.545	4.545	0.000	97	184659	10.0	9.73	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.580	4.569	0.011	97	213233	10.0	9.69	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	41840	20.0	19.5	
41 cis-1,2-Dichloroethene	96	5.031	5.019	0.012	82	133546	10.0	9.80	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	91	29966	10.0	10.3	
46 Chlorobromomethane	128	5.221	5.209	0.012	94	62239	10.0	9.43	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	97966	20.0	18.8	
48 Chloroform	83	5.280	5.268	0.012	94	212951	10.0	9.95	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	99	181620	10.0	9.86	
50 Cyclohexane	56	5.493	5.494	-0.001	89	190454	10.0	10.2	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	96	179807	10.0	9.90	
52 Carbon tetrachloride	117	5.553	5.553	0.000	93	162025	10.0	9.72	
53 Isobutyl alcohol	41	5.553	5.553	0.000	94	141577	250.0	251.9	
55 Benzene	78	5.707	5.707	0.000	97	487470	10.0	9.65	
56 1,2-Dichloroethane	62	5.742	5.743	-0.001	97	166765	10.0	9.80	
58 n-Heptane	100	5.896	5.885	0.011	92	27724	10.0	9.84	
60 Trichloroethene	130	6.217	6.217	0.000	96	138694	10.0	9.75	
62 Methylcyclohexane	83	6.418	6.407	0.011	90	187995	10.0	10.3	
63 1,2-Dichloropropane	63	6.418	6.419	0.000	93	117071	10.0	9.89	
66 1,4-Dioxane	88	6.466	6.466	0.000	91	25423	200.0	212.0	
65 Dibromomethane	93	6.501	6.502	-0.001	95	72079	10.0	9.61	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	152773	10.0	9.73	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	94	167992	20.0	18.9	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	94	185809	10.0	9.66	
71 4-Methyl-2-pentanone (MIBK)	43	7.070	7.071	-0.001	97	303058	20.0	19.1	
72 Toluene	91	7.260	7.260	0.000	98	531520	10.0	9.74	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	97	173518	10.0	9.67	
74 Ethyl methacrylate	69	7.438	7.438	0.000	88	165090	10.0	9.58	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	92	102017	10.0	9.70	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	102216	10.0	9.62	
77 1,3-Dichloropropane	76	7.746	7.747	-0.001	96	181814	10.0	9.81	
78 2-Hexanone	43	7.758	7.759	-0.001	96	228534	20.0	19.3	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	109094	10.0	9.42	
82 Ethylene Dibromide	107	8.055	8.055	0.000	99	108159	10.0	9.50	
84 Chlorobenzene	112	8.482	8.482	0.000	96	321494	10.0	9.59	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	43	107694	10.0	9.85	
86 Ethylbenzene	106	8.541	8.541	0.000	98	182286	10.0	9.88	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	431114	10.0	9.92	
88 o-Xylene	106	9.003	9.004	-0.001	95	207120	10.0	9.91	
89 Styrene	104	9.015	9.016	-0.001	94	352313	10.0	9.88	
90 Bromoform	173	9.205	9.205	0.000	96	75494	10.0	9.12	
91 Isopropylbenzene	105	9.324	9.324	0.000	96	503121	10.0	9.78	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	95	133929	10.0	9.87	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	78	47716	10.0	9.69	
95 Bromobenzene	156	9.644	9.644	0.000	97	124062	10.0	9.60	
96 1,2,3-Trichloropropane	110	9.667	9.668	-0.001	81	47818	10.0	9.99	
98 N-Propylbenzene	120	9.703	9.703	0.000	99	138604	10.0	9.86	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	120614	10.0	10.2	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	94	379710	10.0	9.91	
102 4-Chlorotoluene	91	9.917	9.917	-0.001	97	361576	10.0	9.92	
104 tert-Butylbenzene	119	10.166	10.166	0.000	92	332244	10.0	9.94	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	95	388252	10.0	10.2	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	434766	10.0	9.93	

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	10.509	10.510	-0.001	74	209992	10.0	9.52	
109 4-Isopropyltoluene	119	10.509	10.510	-0.001	97	371365	10.0	9.90	
110 1,4-Dichlorobenzene	146	10.592	10.593	-0.001	96	220650	10.0	9.77	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	297201	10.0	9.96	
114 1,2-Dichlorobenzene	146	10.948	10.937	0.011	97	186743	10.0	9.54	
115 1,2-Dibromo-3-Chloropropane	157	11.683	11.684	-0.001	93	30617	10.0	9.05	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	95	80386	10.0	9.11	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	97	34852	10.0	8.81	
119 Naphthalene	128	12.715	12.715	0.000	97	290752	10.0	9.27	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	95	68792	10.0	8.94	
S 130 Total BTEX	1				0		50.0	49.1	
S 131 Trihalomethanes, Total	1				0		40.0	38.2	
S 127 1,2-Dichloroethene, Total	96				0			18.9	
S 128 1,3-Dichloropropene, Total	75				0			19.3	
S 129 Xylenes, Total	106				0		20.0	19.8	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmrgas_00430	Amount Added:	8.00	Units: uL
vmarolistdw_00442	Amount Added:	8.00	Units: uL
vmrprimw_00486	Amount Added:	8.00	Units: uL
vm50ss_stk_00091	Amount Added:	8.00	Units: uL

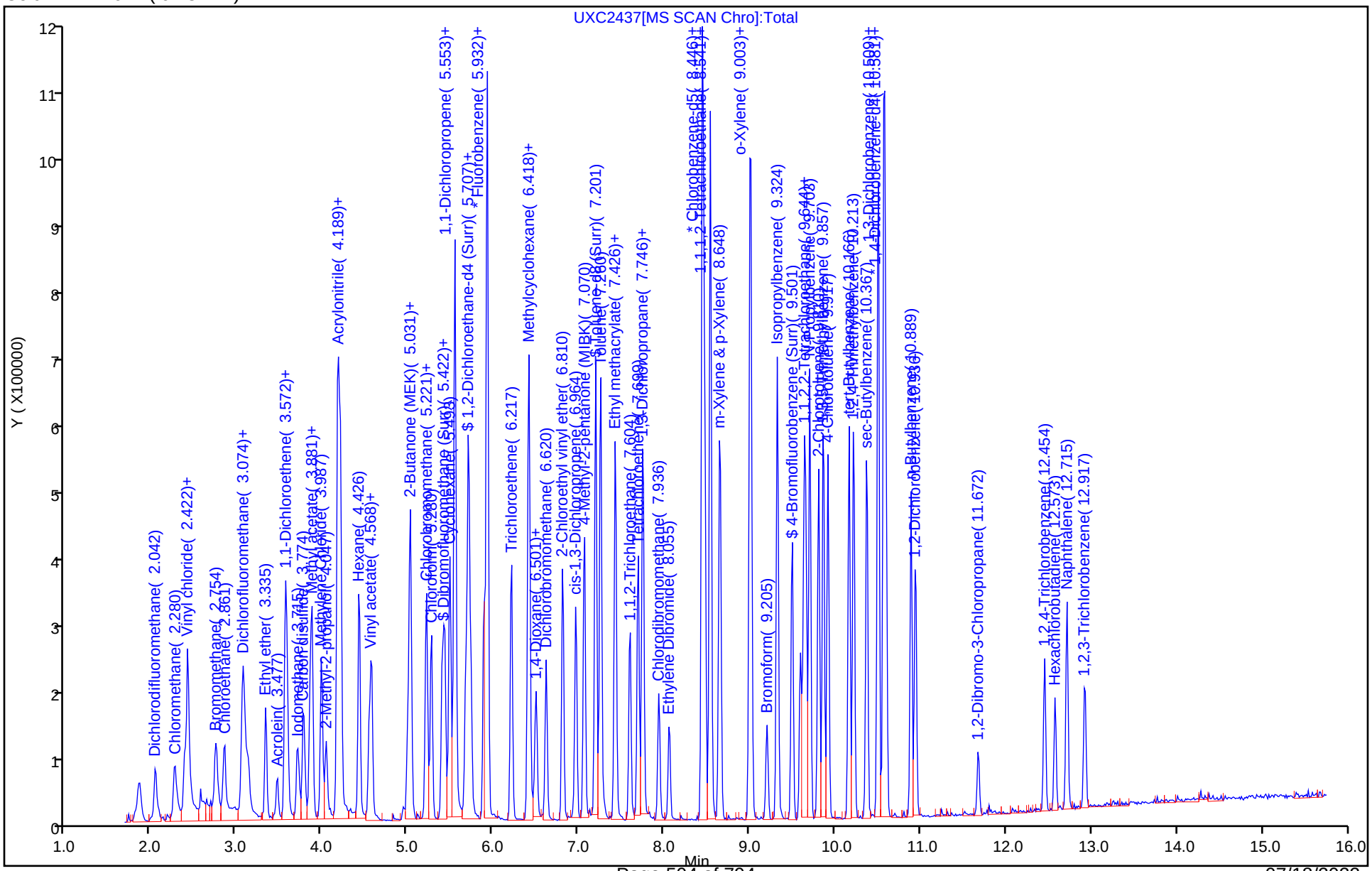
Report Date: 20-Jun-2022 10:42:24 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2437.D

Injection Date:	17-Jun-2022 16:40:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	std8260 L4			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2438.D
Lims ID: ICIS L5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 17-Jun-2022 17:03:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-013
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:31 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:17:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	1012688	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	738465	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.581	10.581	0.000	94	356681	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	95	237992	20.0	20.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	288806	20.0	19.6	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	955096	20.0	19.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.502	0.000	94	319069	20.0	18.5	
9 Dichlorodifluoromethane	85	2.043	2.043	0.000	99	223381	20.0	21.7	
10 Chloromethane	50	2.268	2.268	0.000	99	265946	20.0	20.0	
11 Vinyl chloride	62	2.387	2.387	0.000	98	283598	20.0	20.8	
12 Butadiene	54	2.422	2.422	0.000	98	280044	20.0	20.4	
13 Bromomethane	94	2.754	2.754	0.000	91	200828	20.0	18.9	
14 Chloroethane	64	2.849	2.849	0.000	99	199600	20.0	20.2	
15 Dichlorofluoromethane	67	3.063	3.063	0.000	98	445874	20.0	19.9	
16 Trichlorofluoromethane	101	3.074	3.074	0.000	98	400989	20.0	21.2	
17 Ethyl ether	59	3.335	3.335	0.000	90	205920	20.0	20.4	
18 Acrolein	56	3.466	3.466	0.000	99	120164	100.0	95.8	
19 1,1-Dichloroethene	96	3.561	3.561	0.000	98	204533	20.0	20.2	
20 112TCTFE	151	3.572	3.572	0.000	92	154250	20.0	22.2	
21 Acetone	43	3.584	3.584	0.000	99	155316	40.0	40.6	
22 Iodomethane	142	3.703	3.703	0.000	98	331155	20.0	20.2	
24 Carbon disulfide	76	3.774	3.774	0.000	100	616229	20.0	20.8	
27 Methyl acetate	43	3.857	3.857	0.000	97	485696	40.0	39.1	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	89	169341	20.0	20.8	
28 Methylene Chloride	84	3.988	3.988	0.000	93	236920	20.0	19.9	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	99	287678	200.0	206.5	
30 Acrylonitrile	53	4.177	4.177	0.000	100	1034001	200.0	201.1	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	692866	20.0	20.2	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	98	258710	20.0	19.3	
34 Hexane	86	4.426	4.426	0.000	93	65758	20.0	21.3	
36 Vinyl acetate	43	4.545	4.545	0.000	97	360362	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
35 1,1-Dichloroethane	63	4.569	4.569	0.000	96	453363	20.0	20.7	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	82020	40.0	38.4	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	82	271993	20.0	20.1	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	90	59221	20.0	20.5	
46 Chlorobromomethane	128	5.209	5.209	0.000	94	134983	20.0	20.6	
47 Tetrahydrofuran	42	5.221	5.221	0.000	88	204255	40.0	39.3	
48 Chloroform	83	5.268	5.268	0.000	94	436883	20.0	20.5	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	385873	20.0	21.1	
50 Cyclohexane	56	5.494	5.494	0.000	88	397001	20.0	21.4	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	97	371872	20.0	20.6	
52 Carbon tetrachloride	117	5.553	5.553	0.000	94	344794	20.0	20.8	
53 Isobutyl alcohol	41	5.553	5.553	0.000	95	290321	500.0	519.5	
55 Benzene	78	5.707	5.707	0.000	97	1029956	20.0	20.5	
56 1,2-Dichloroethane	62	5.743	5.743	0.000	97	343869	20.0	20.3	
58 n-Heptane	100	5.885	5.885	0.000	91	60060	20.0	21.4	
60 Trichloroethene	130	6.217	6.217	0.000	96	290440	20.0	20.5	
62 Methylcyclohexane	83	6.407	6.407	0.000	91	397919	20.0	22.0	
63 1,2-Dichloropropane	63	6.419	6.419	0.000	92	238586	20.0	20.3	
66 1,4-Dioxane	88	6.466	6.466	0.000	90	57084	400.0	478.6	
65 Dibromomethane	93	6.502	6.502	0.000	95	148559	20.0	19.9	
67 Dichlorobromomethane	83	6.620	6.620	0.000	98	309938	20.0	19.9	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	359835	40.0	40.8	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	94	397639	20.0	20.8	
71 4-Methyl-2-pentanone (MIBK)	43	7.071	7.071	0.000	96	639948	40.0	40.5	
72 Toluene	91	7.260	7.260	0.000	98	1103663	20.0	20.1	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	97	364060	20.0	20.2	
74 Ethyl methacrylate	69	7.438	7.438	0.000	88	348746	20.0	20.1	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	91	211549	20.0	20.0	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	216167	20.0	20.2	
77 1,3-Dichloropropane	76	7.747	7.747	0.000	97	382799	20.0	20.5	
78 2-Hexanone	43	7.759	7.759	0.000	95	484323	40.0	40.7	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	236533	20.0	20.3	
82 Ethylene Dibromide	107	8.055	8.055	0.000	98	233386	20.0	20.4	
84 Chlorobenzene	112	8.482	8.482	0.000	96	684852	20.0	20.3	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	43	232496	20.0	21.1	
86 Ethylbenzene	106	8.541	8.541	0.000	98	380291	20.0	20.5	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	921861	20.0	21.1	
88 o-Xylene	106	9.004	9.004	0.000	96	427485	20.0	20.3	
89 Styrene	104	9.016	9.016	0.000	94	735676	20.0	20.5	
90 Bromoform	173	9.205	9.205	0.000	97	167063	20.0	20.1	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	1075642	20.0	20.8	
94 1,1,2,2-Tetrachloroethane	83	9.597	9.597	0.000	95	275454	20.0	19.6	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	80	101745	20.0	20.0	
95 Bromobenzene	156	9.644	9.644	0.000	95	268818	20.0	20.1	
96 1,2,3-Trichloropropane	110	9.668	9.668	0.000	81	98585	20.0	19.9	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	303517	20.0	20.9	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	251383	20.0	20.5	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	94	810064	20.0	20.4	
102 4-Chlorotoluene	91	9.917	9.917	0.000	97	761327	20.0	20.2	
104 tert-Butylbenzene	119	10.166	10.166	0.000	93	699451	20.0	20.2	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	95	815391	20.0	20.7	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	940683	20.0	20.8	

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	10.510	10.510	0.000	74	458958	20.0	20.1	
109 4-Isopropyltoluene	119	10.510	10.510	0.000	97	797356	20.0	20.6	
110 1,4-Dichlorobenzene	146	10.593	10.593	0.000	95	466006	20.0	20.0	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	642704	20.0	20.8	
114 1,2-Dichlorobenzene	146	10.937	10.937	0.000	98	402749	20.0	19.9	
115 1,2-Dibromo-3-Chloropropane	157	11.684	11.684	0.000	95	66608	20.0	19.0	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	175914	20.0	19.3	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	96	81793	20.0	20.0	
119 Naphthalene	128	12.715	12.715	0.000	97	635081	20.0	19.6	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	96	152551	20.0	19.2	
S 130 Total BTEX	1				0		100.0	102.6	
S 131 Trihalomethanes, Total	1				0		80.0	80.7	
S 129 Xylenes, Total	106				0		40.0	41.5	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmrgas_00430	Amount Added:	16.00	Units: uL
vmarolistdw_00442	Amount Added:	16.00	Units: uL
vmrprimw_00486	Amount Added:	16.00	Units: uL
vm50ss_stk_00091	Amount Added:	16.00	Units: uL

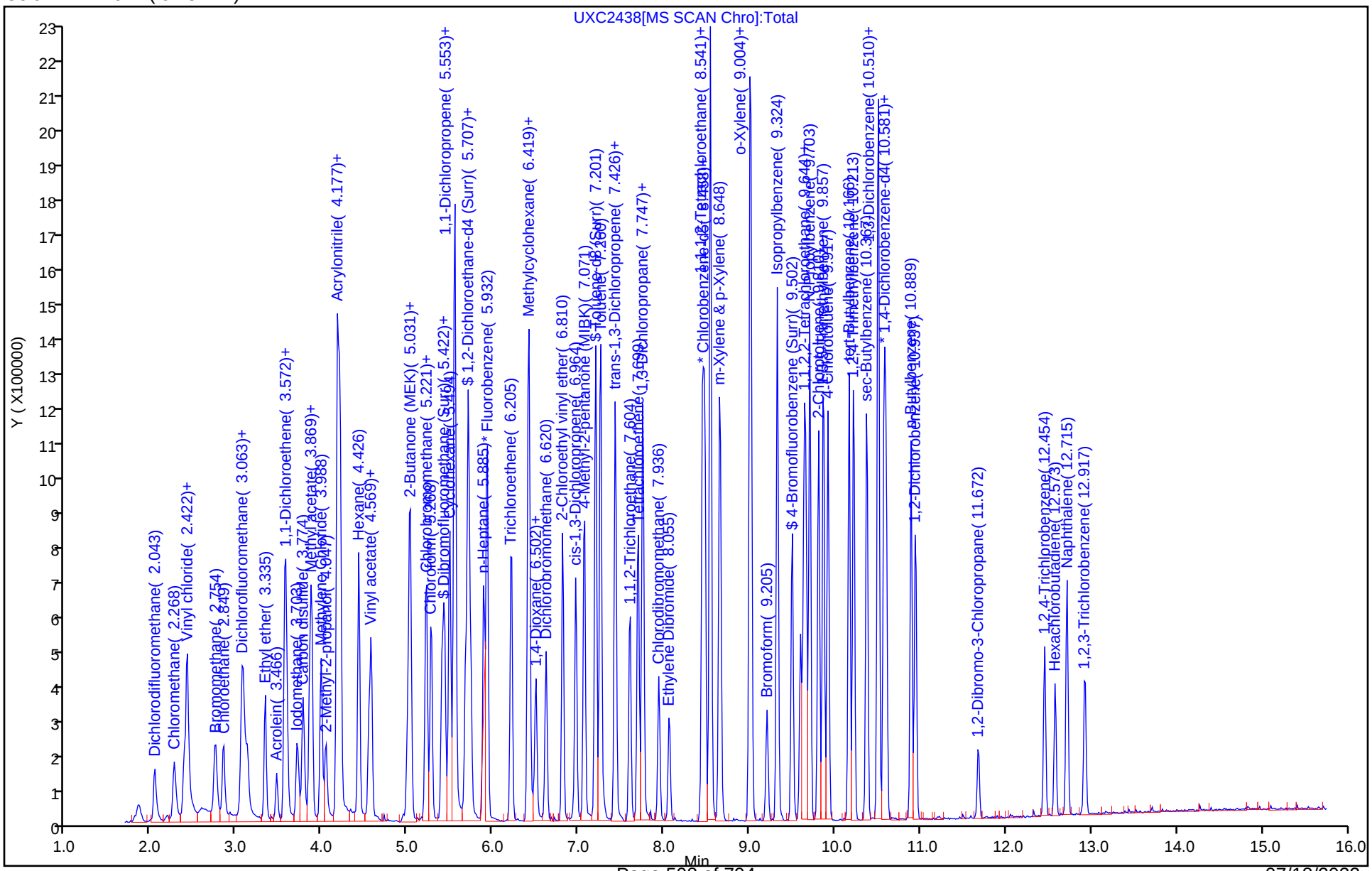
Report Date: 20-Jun-2022 10:42:31 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2438.D

Injection Date:	17-Jun-2022 17:03:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	ICIS L5			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2439.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Jun-2022 17:27:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-014
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:37 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:19:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	1043186	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	761019	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.581	-0.012	93	372985	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	96	485243	40.0	40.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	582686	40.0	38.4	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	1928415	40.0	37.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.502	0.000	95	641482	40.0	36.1	
9 Dichlorodifluoromethane	85	2.054	2.043	0.011	99	453615	40.0	42.7	
10 Chloromethane	50	2.280	2.268	0.012	99	534919	40.0	39.0	
11 Vinyl chloride	62	2.398	2.387	0.011	98	570013	40.0	40.5	
12 Butadiene	54	2.434	2.422	0.012	99	592884	40.0	41.8	
13 Bromomethane	94	2.754	2.754	0.000	91	440987	40.0	40.3	
14 Chloroethane	64	2.849	2.849	0.000	100	425410	40.0	41.7	
15 Dichlorofluoromethane	67	3.062	3.063	-0.001	98	936344	40.0	40.5	
16 Trichlorofluoromethane	101	3.086	3.074	0.012	98	840526	40.0	43.1	
17 Ethyl ether	59	3.335	3.335	0.000	91	429157	40.0	41.3	
18 Acrolein	56	3.477	3.466	0.011	99	270910	200.0	209.7	
19 1,1-Dichloroethene	96	3.572	3.561	0.011	98	429138	40.0	41.0	
20 112TCTFE	151	3.584	3.572	0.012	92	314652	40.0	43.9	
21 Acetone	43	3.596	3.584	0.012	99	337102	80.0	88.0	
22 Iodomethane	142	3.715	3.703	0.012	99	702513	40.0	41.7	
24 Carbon disulfide	76	3.786	3.774	0.012	100	1237122	40.0	40.5	
27 Methyl acetate	43	3.857	3.857	0.000	97	1021039	80.0	79.9	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	89	369196	40.0	43.9	
28 Methylene Chloride	84	3.987	3.988	-0.001	92	476304	40.0	39.4	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	99	608071	400.0	423.8	
30 Acrylonitrile	53	4.177	4.177	0.000	99	2260362	400.0	426.7	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	1478358	40.0	41.9	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	99	546484	40.0	39.6	
34 Hexane	86	4.438	4.426	0.012	91	137164	40.0	43.2	
36 Vinyl acetate	43	4.545	4.545	0.000	97	725595	40.0	37.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.580	4.569	0.011	96	942579	40.0	41.8	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	100	176344	80.0	80.2	
41 cis-1,2-Dichloroethene	96	5.031	5.019	0.012	82	578355	40.0	41.4	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	90	120330	40.0	40.4	
46 Chlorobromomethane	128	5.221	5.209	0.012	94	279669	40.0	41.4	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	425733	80.0	79.6	
48 Chloroform	83	5.280	5.268	0.012	94	908789	40.0	41.4	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	791150	40.0	41.9	
50 Cyclohexane	56	5.493	5.494	-0.001	89	809663	40.0	42.3	
51 1,1-Dichloropropene	75	5.553	5.541	0.012	95	771820	40.0	41.5	
52 Carbon tetrachloride	117	5.553	5.553	0.000	92	729843	40.0	42.8	
53 Isobutyl alcohol	41	5.553	5.553	0.000	93	612045	1000.0	1063.3	
55 Benzene	78	5.707	5.707	0.000	97	2133564	40.0	41.2	
56 1,2-Dichloroethane	62	5.742	5.743	-0.001	97	724985	40.0	41.6	
58 n-Heptane	100	5.897	5.885	0.012	90	119862	40.0	41.5	
60 Trichloroethene	130	6.217	6.217	0.000	97	610167	40.0	41.9	
62 Methylcyclohexane	83	6.406	6.407	-0.001	91	823818	40.0	44.2	
63 1,2-Dichloropropane	63	6.430	6.419	0.012	93	497980	40.0	41.1	
66 1,4-Dioxane	88	6.466	6.466	0.000	93	111706	800.0	909.1	
65 Dibromomethane	93	6.501	6.502	-0.001	94	315762	40.0	41.1	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	676926	40.0	42.1	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	739838	80.0	81.5	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	95	828704	40.0	42.1	
71 4-Methyl-2-pentanone (MIBK)	43	7.071	7.071	0.000	96	1319050	80.0	81.1	
72 Toluene	91	7.260	7.260	0.000	98	2304583	40.0	40.8	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	96	771085	40.0	41.5	
74 Ethyl methacrylate	69	7.438	7.438	0.000	88	737007	40.0	41.3	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	91	442501	40.0	40.6	
76 Tetrachloroethene	164	7.699	7.699	0.000	98	463299	40.0	42.1	
77 1,3-Dichloropropane	76	7.746	7.747	-0.001	96	780994	40.0	40.7	
78 2-Hexanone	43	7.758	7.759	-0.001	95	1004633	80.0	81.8	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	505764	40.0	42.1	
82 Ethylene Dibromide	107	8.055	8.055	0.000	98	480096	40.0	40.7	
84 Chlorobenzene	112	8.482	8.482	0.000	96	1417194	40.0	40.8	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	43	478955	40.0	42.3	
86 Ethylbenzene	106	8.541	8.541	0.000	98	794837	40.0	41.6	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	1866722	40.0	41.5	
88 o-Xylene	106	9.003	9.004	-0.001	96	894396	40.0	41.3	
89 Styrene	104	9.015	9.016	-0.001	93	1549340	40.0	41.9	
90 Bromoform	173	9.205	9.205	0.000	98	377545	40.0	44.0	
91 Isopropylbenzene	105	9.324	9.324	0.000	96	2261062	40.0	42.4	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	95	567058	40.0	38.6	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	85	211826	40.0	39.8	
95 Bromobenzene	156	9.644	9.644	0.000	95	575514	40.0	41.2	
96 1,2,3-Trichloropropane	110	9.668	9.668	0.000	83	211239	40.0	40.8	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	621193	40.0	40.8	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	522903	40.0	40.8	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	94	1687446	40.0	40.7	
102 4-Chlorotoluene	91	9.917	9.917	0.000	97	1587974	40.0	40.3	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	1466415	40.0	40.6	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	95	1682362	40.0	40.9	
107 sec-Butylbenzene	105	10.367	10.367	0.000	93	1959143	40.0	41.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.509	10.510	-0.001	77	984064	40.0	41.2	
109 4-Isopropyltoluene	119	10.509	10.510	-0.001	97	1682163	40.0	41.5	
110 1,4-Dichlorobenzene	146	10.593	10.593	-0.001	96	989807	40.0	40.5	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	1325322	40.0	41.1	
114 1,2-Dichlorobenzene	146	10.948	10.937	0.011	99	856049	40.0	40.4	
115 1,2-Dibromo-3-Chloropropane	157	11.683	11.684	-0.001	90	144362	40.0	39.5	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	381232	40.0	39.9	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	97	171222	40.0	40.0	
119 Naphthalene	128	12.715	12.715	0.000	96	1357932	40.0	40.0	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	96	340823	40.0	40.9	
S 130 Total BTEX	1				0		200.0	206.3	
S 131 Trihalomethanes, Total	1				0		160.0	169.7	
S 127 1,2-Dichloroethene, Total	96				0			81.0	
S 128 1,3-Dichloropropene, Total	75				0			83.5	
S 129 Xylenes, Total	106				0		80.0	82.8	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmrgas_00430	Amount Added:	32.00	Units: uL
vmarolistdw_00442	Amount Added:	32.00	Units: uL
vmrprimw_00486	Amount Added:	32.00	Units: uL
vm50ss_stk_00091	Amount Added:	32.00	Units: uL

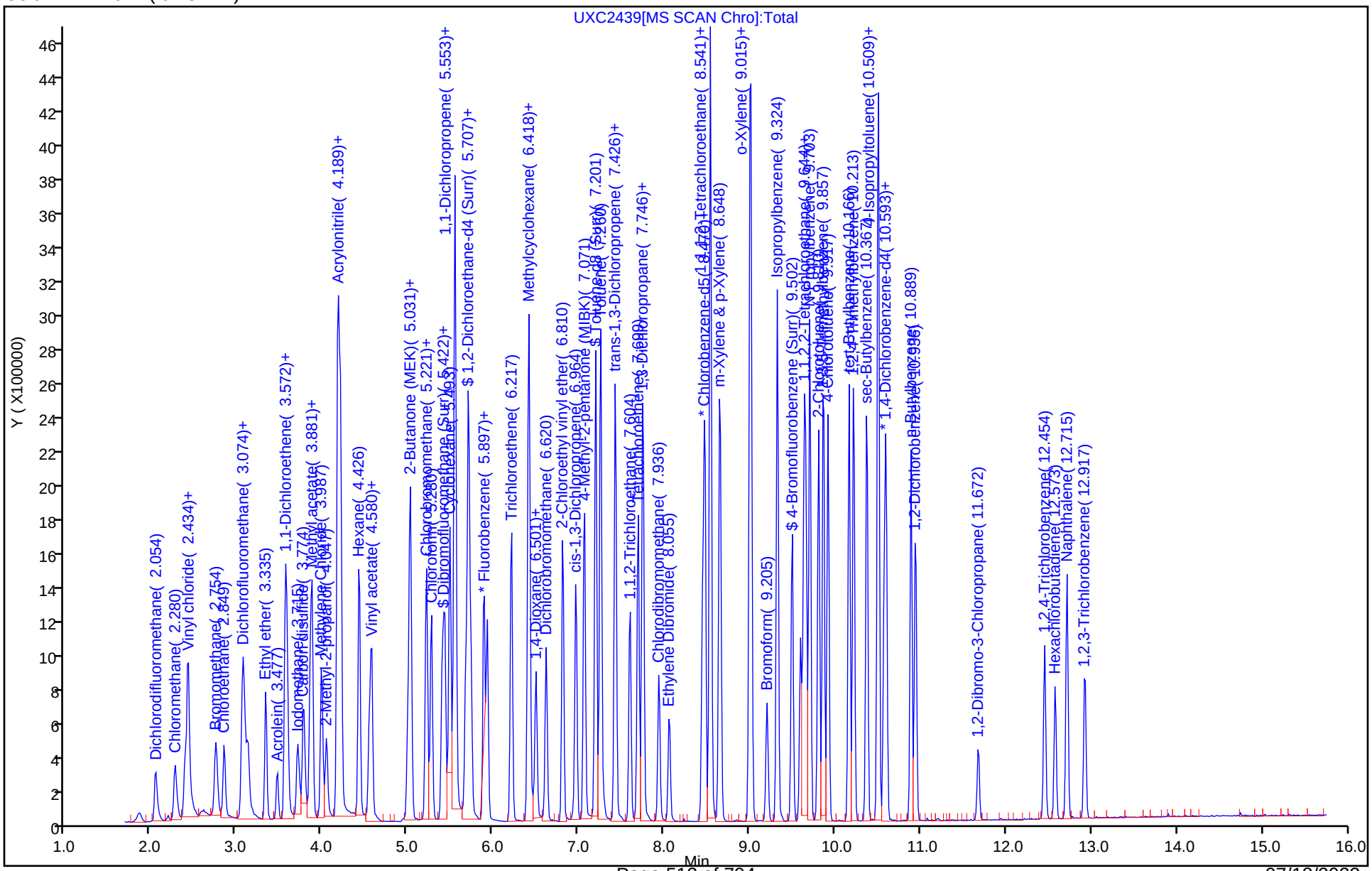
Report Date: 20-Jun-2022 10:42:38 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2439.D

Injection Date:	17-Jun-2022 17:27:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	std8260 L6			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2440.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Jun-2022 17:50:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-015
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:44 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:20:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	1027981	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	737310	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.581	10.581	0.000	93	359177	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	-0.001	96	771286	60.0	64.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.671	0.012	100	914521	60.0	61.1	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	3096581	60.0	62.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.502	0.000	96	1018070	60.0	59.1	
9 Dichlorodifluoromethane	85	2.043	2.043	0.000	99	705164	60.0	67.4	
10 Chloromethane	50	2.268	2.268	0.000	99	788614	60.0	58.3	
11 Vinyl chloride	62	2.386	2.387	-0.001	98	851899	60.0	61.5	
12 Butadiene	54	2.422	2.422	0.000	99	858895	60.0	61.5	
13 Bromomethane	94	2.742	2.754	-0.012	91	693208	60.0	64.3	
14 Chloroethane	64	2.849	2.849	0.000	100	666030	60.0	66.2	
15 Dichlorofluoromethane	67	3.062	3.063	-0.001	98	1448227	60.0	63.5	
16 Trichlorofluoromethane	101	3.074	3.074	0.000	99	1302923	60.0	67.8	
17 Ethyl ether	59	3.335	3.335	0.000	90	660508	60.0	64.5	
18 Acrolein	56	3.466	3.466	0.000	99	431181	300.0	338.7	
19 1,1-Dichloroethene	96	3.560	3.561	-0.001	98	642239	60.0	62.3	
20 112TCTFE	151	3.572	3.572	0.000	93	482581	60.0	68.3	
21 Acetone	43	3.584	3.584	0.000	100	482818	120.0	129.0	
22 Iodomethane	142	3.703	3.703	0.000	98	1057764	60.0	63.7	
24 Carbon disulfide	76	3.774	3.774	0.000	100	1884836	60.0	62.7	
27 Methyl acetate	43	3.857	3.857	0.000	97	1538110	120.0	122.1	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	90	549987	60.0	66.4	
28 Methylene Chloride	84	3.987	3.988	-0.001	92	724468	60.0	61.2	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	99	877113	600.0	620.3	
30 Acrylonitrile	53	4.177	4.177	0.000	99	3389234	600.0	649.3	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	2282415	60.0	65.6	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	99	816155	60.0	60.0	
34 Hexane	86	4.426	4.426	0.000	92	213424	60.0	68.2	
36 Vinyl acetate	43	4.545	4.545	0.000	97	1194646	60.0	62.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.568	4.569	-0.001	96	1430976	60.0	64.4	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	100	265449	120.0	122.6	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	81	878104	60.0	63.8	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	90	175554	60.0	59.9	
46 Chlorobromomethane	128	5.209	5.209	0.000	93	430945	60.0	64.7	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	639690	120.0	121.3	
48 Chloroform	83	5.280	5.268	0.012	94	1380875	60.0	63.9	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	1212701	60.0	65.2	
50 Cyclohexane	56	5.493	5.494	-0.001	88	1204357	60.0	63.8	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	96	1175766	60.0	64.1	
52 Carbon tetrachloride	117	5.553	5.553	0.000	92	1113868	60.0	66.2	
53 Isobutyl alcohol	41	5.553	5.553	0.000	94	898326	1500.0	1583.7	
55 Benzene	78	5.707	5.707	0.000	96	3276695	60.0	64.2	
56 1,2-Dichloroethane	62	5.742	5.743	-0.001	97	1078248	60.0	62.7	
58 n-Heptane	100	5.897	5.885	0.012	92	182367	60.0	64.1	
60 Trichloroethene	130	6.217	6.217	0.000	96	934642	60.0	65.1	
62 Methylcyclohexane	83	6.406	6.407	-0.001	91	1235062	60.0	67.2	
63 1,2-Dichloropropane	63	6.418	6.419	0.000	94	756189	60.0	63.3	
66 1,4-Dioxane	88	6.466	6.466	0.000	93	157302	1200.0	1299.2	
65 Dibromomethane	93	6.501	6.502	-0.001	93	470977	60.0	62.2	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	1037173	60.0	65.4	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	1192460	120.0	133.3	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	95	1293290	60.0	66.6	
71 4-Methyl-2-pentanone (MIBK)	43	7.071	7.071	0.000	96	2038935	120.0	127.2	
72 Toluene	91	7.260	7.260	0.000	98	3508499	60.0	64.0	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	97	1211370	60.0	67.2	
74 Ethyl methacrylate	69	7.438	7.438	0.000	83	1153857	60.0	66.7	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	91	685567	60.0	65.0	
76 Tetrachloroethene	164	7.699	7.699	0.000	98	730856	60.0	68.5	
77 1,3-Dichloropropane	76	7.746	7.747	-0.001	96	1225542	60.0	65.9	
78 2-Hexanone	43	7.758	7.759	-0.001	95	1540811	120.0	129.5	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	786066	60.0	67.6	
82 Ethylene Dibromide	107	8.055	8.055	0.000	98	747878	60.0	65.5	
84 Chlorobenzene	112	8.482	8.482	0.000	97	2197880	60.0	65.3	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	43	730071	60.0	66.5	
86 Ethylbenzene	106	8.541	8.541	0.000	97	1232007	60.0	66.5	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	2876304	60.0	65.9	
88 o-Xylene	106	9.003	9.004	-0.001	96	1362412	60.0	64.9	
89 Styrene	104	9.015	9.016	-0.001	94	2387025	60.0	66.7	
90 Bromoform	173	9.205	9.205	0.000	98	590685	60.0	71.1	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	3414725	60.0	66.1	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	95	858467	60.0	60.7	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	78	329217	60.0	64.2	
95 Bromobenzene	156	9.644	9.644	0.000	94	890995	60.0	66.2	
96 1,2,3-Trichloropropane	110	9.668	9.668	0.000	82	321066	60.0	64.4	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	952212	60.0	65.0	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	795966	60.0	64.4	
101 1,3,5-Trimethylbenzene	105	9.869	9.857	0.012	94	2527247	60.0	63.3	
102 4-Chlorotoluene	91	9.917	9.917	0.000	97	2395200	60.0	63.1	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	2201917	60.0	63.3	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	94	2516225	60.0	63.5	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	2918290	60.0	64.0	

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	10.510	10.510	0.000	74	1501124	60.0	65.3	
109 4-Isopropyltoluene	119	10.510	10.510	0.000	97	2538125	60.0	65.0	
110 1,4-Dichlorobenzene	146	10.593	10.593	0.000	96	1526096	60.0	64.9	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	1979704	60.0	63.7	
114 1,2-Dichlorobenzene	146	10.948	10.937	0.011	99	1322212	60.0	64.9	
115 1,2-Dibromo-3-Chloropropane	157	11.684	11.684	0.000	90	220456	60.0	62.6	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	583801	60.0	63.5	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	97	270732	60.0	65.7	
119 Naphthalene	128	12.715	12.715	0.000	97	2059151	60.0	63.0	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	96	528233	60.0	65.9	
S 130 Total BTEX	1				0		300.0	325.7	
S 131 Trihalomethanes, Total	1				0		240.0	268.0	
S 127 1,2-Dichloroethene, Total	96				0			123.8	
S 128 1,3-Dichloropropene, Total	75				0			133.8	
S 129 Xylenes, Total	106				0		120.0	130.9	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmrgas_00430	Amount Added:	48.00	Units: uL
vmarolistdw_00442	Amount Added:	48.00	Units: uL
vmrprimw_00486	Amount Added:	48.00	Units: uL
vm50ss_stk_00091	Amount Added:	48.00	Units: uL

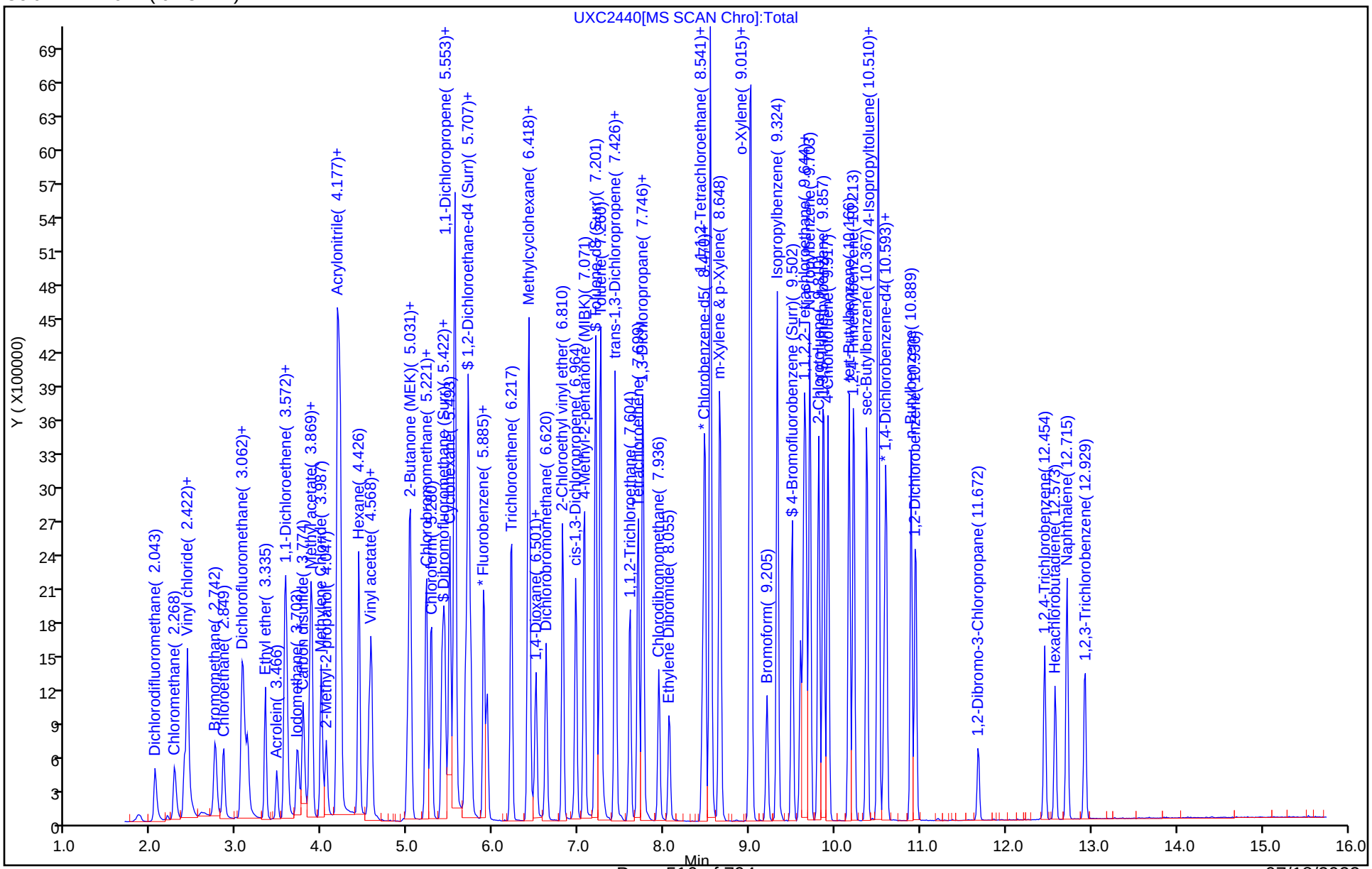
Report Date: 20-Jun-2022 10:42:45 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2440.D

Injection Date:	17-Jun-2022 17:50:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	std8260 L7			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2441.D
Lims ID: std8260 L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 17-Jun-2022 18:14:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-016
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:51 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:22:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	1035752	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	743498	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.581	-0.012	94	363030	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	97	1013849	80.0	84.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	1187928	80.0	78.8	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	4037069	80.0	81.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.502	0.000	97	1309144	80.0	75.4	
9 Dichlorodifluoromethane	85	2.031	2.043	-0.012	99	926257	80.0	87.9	
10 Chloromethane	50	2.256	2.268	-0.012	99	1043125	80.0	76.5	
11 Vinyl chloride	62	2.386	2.387	-0.001	98	1142771	80.0	81.8	
12 Butadiene	54	2.410	2.422	-0.012	99	1148285	80.0	81.6	
13 Bromomethane	94	2.730	2.754	-0.024	91	943437	80.0	86.9	
14 Chloroethane	64	2.837	2.849	-0.012	99	906817	80.0	89.5	
15 Dichlorofluoromethane	67	3.051	3.063	-0.012	98	1928622	80.0	84.0	
16 Trichlorofluoromethane	101	3.074	3.074	0.000	98	1730899	80.0	89.4	
17 Ethyl ether	59	3.323	3.335	-0.012	92	851012	80.0	82.4	
18 Acrolein	56	3.466	3.466	0.000	99	515954	400.0	402.3	
19 1,1-Dichloroethene	96	3.560	3.561	-0.001	98	866620	80.0	83.5	
20 112TCTFE	151	3.572	3.572	0.000	90	657218	80.0	92.4	
21 Acetone	43	3.584	3.584	0.000	99	538070	160.0	142.9	
22 Iodomethane	142	3.703	3.703	0.000	98	1437969	80.0	86.0	
24 Carbon disulfide	76	3.774	3.774	0.000	100	2531898	80.0	83.5	
27 Methyl acetate	43	3.845	3.857	-0.012	98	1938934	160.0	152.8	
26 3-Chloro-1-propene	76	3.869	3.881	-0.012	89	733647	80.0	87.9	
28 Methylene Chloride	84	3.987	3.988	-0.001	92	952111	80.0	80.0	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	99	910408	800.0	639.1	
30 Acrylonitrile	53	4.177	4.177	0.000	100	4152971	800.0	789.7	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	2971517	80.0	84.8	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	99	1084170	80.0	79.1	
34 Hexane	86	4.426	4.426	0.000	92	274750	80.0	87.2	
36 Vinyl acetate	43	4.545	4.545	0.000	97	1338983	80.0	69.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.568	4.569	-0.001	96	1863359	80.0	83.2	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	320202	160.0	146.7	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	81	1161175	80.0	83.8	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	91	233852	80.0	79.2	
46 Chlorobromomethane	128	5.209	5.209	0.000	94	568040	80.0	84.6	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	767126	160.0	144.4	
48 Chloroform	83	5.268	5.268	0.000	94	1830857	80.0	84.1	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	99	1576818	80.0	84.2	
50 Cyclohexane	56	5.493	5.494	-0.001	88	1631491	80.0	85.8	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	98	1548958	80.0	83.8	
52 Carbon tetrachloride	117	5.553	5.553	0.000	95	1484014	80.0	87.6	
53 Isobutyl alcohol	41	5.553	5.553	0.000	95	1026488	2000.0	1796.0	
55 Benzene	78	5.707	5.707	0.000	96	4355543	80.0	84.8	
56 1,2-Dichloroethane	62	5.731	5.743	-0.012	97	1403533	80.0	81.1	
58 n-Heptane	100	5.885	5.885	0.000	92	245751	80.0	85.7	
60 Trichloroethene	130	6.205	6.217	-0.012	96	1233264	80.0	85.3	
62 Methylcyclohexane	83	6.406	6.407	-0.001	91	1652710	80.0	89.3	
63 1,2-Dichloropropane	63	6.418	6.419	0.000	94	1001142	80.0	83.2	
66 1,4-Dioxane	88	6.466	6.466	0.000	94	169307	1600.0	1387.8	
65 Dibromomethane	93	6.501	6.502	-0.001	92	608489	80.0	79.8	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	1342315	80.0	84.1	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	1496459	160.0	166.0	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	95	1666525	80.0	85.2	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.071	-0.012	96	2500030	160.0	154.7	
72 Toluene	91	7.260	7.260	0.000	98	4550670	80.0	82.4	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	96	1545998	80.0	85.1	
74 Ethyl methacrylate	69	7.438	7.438	0.000	88	1435294	80.0	82.3	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	91	874063	80.0	82.1	
76 Tetrachloroethene	164	7.699	7.699	0.000	98	950831	80.0	88.4	
77 1,3-Dichloropropane	76	7.747	7.747	-0.001	96	1553616	80.0	82.8	
78 2-Hexanone	43	7.758	7.759	-0.001	95	1864287	160.0	155.4	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	1011049	80.0	86.2	
82 Ethylene Dibromide	107	8.055	8.055	0.000	98	948124	80.0	82.3	
84 Chlorobenzene	112	8.482	8.482	0.000	97	2831852	80.0	83.5	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	43	950745	80.0	85.9	
86 Ethylbenzene	106	8.541	8.541	0.000	97	1582171	80.0	84.7	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	3681172	80.0	83.7	
88 o-Xylene	106	9.004	9.004	0.000	96	1763526	80.0	83.4	
89 Styrene	104	9.015	9.016	-0.001	94	3062334	80.0	84.8	
90 Bromoform	173	9.205	9.205	0.000	98	774212	80.0	92.4	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	4481110	80.0	86.1	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	95	1084312	80.0	75.9	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	84	408083	80.0	78.8	
95 Bromobenzene	156	9.644	9.644	0.000	92	1162303	80.0	85.5	
96 1,2,3-Trichloropropane	110	9.668	9.668	0.000	83	403407	80.0	80.0	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	1229909	80.0	83.1	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	1026748	80.0	82.3	
101 1,3,5-Trimethylbenzene	105	9.869	9.857	0.012	94	3286659	80.0	81.5	
102 4-Chlorotoluene	91	9.917	9.917	0.000	97	3071541	80.0	80.1	
104 tert-Butylbenzene	119	10.166	10.166	0.000	92	2884311	80.0	82.0	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	95	3248252	80.0	81.1	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	3824259	80.0	83.0	

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	10.510	10.510	0.000	74	1951702	80.0	84.0	
109 4-Isopropyltoluene	119	10.510	10.510	0.000	97	3316885	80.0	84.0	
110 1,4-Dichlorobenzene	146	10.593	10.593	0.000	96	1971342	80.0	83.0	
113 n-Butylbenzene	91	10.889	10.889	0.000	98	2568551	80.0	81.8	
114 1,2-Dichlorobenzene	146	10.936	10.937	-0.001	99	1721570	80.0	83.5	
115 1,2-Dibromo-3-Chloropropane	157	11.684	11.684	0.000	94	290697	80.0	81.6	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	852115	80.0	91.7	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	97	390998	80.0	93.9	
119 Naphthalene	128	12.715	12.715	0.000	96	3016007	80.0	91.3	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	96	781209	80.0	96.4	
S 130 Total BTEX	1				0		400.0	418.9	
S 131 Trihalomethanes, Total	1				0		320.0	346.7	
S 127 1,2-Dichloroethene, Total	96				0			162.9	
S 128 1,3-Dichloropropene, Total	75				0			170.3	
S 129 Xylenes, Total	106				0		160.0	167.1	

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmrgas_00430	Amount Added:	64.00	Units: uL
vmarolistdw_00442	Amount Added:	64.00	Units: uL
vmrprimw_00486	Amount Added:	64.00	Units: uL
vm50ss_stk_00091	Amount Added:	64.00	Units: uL

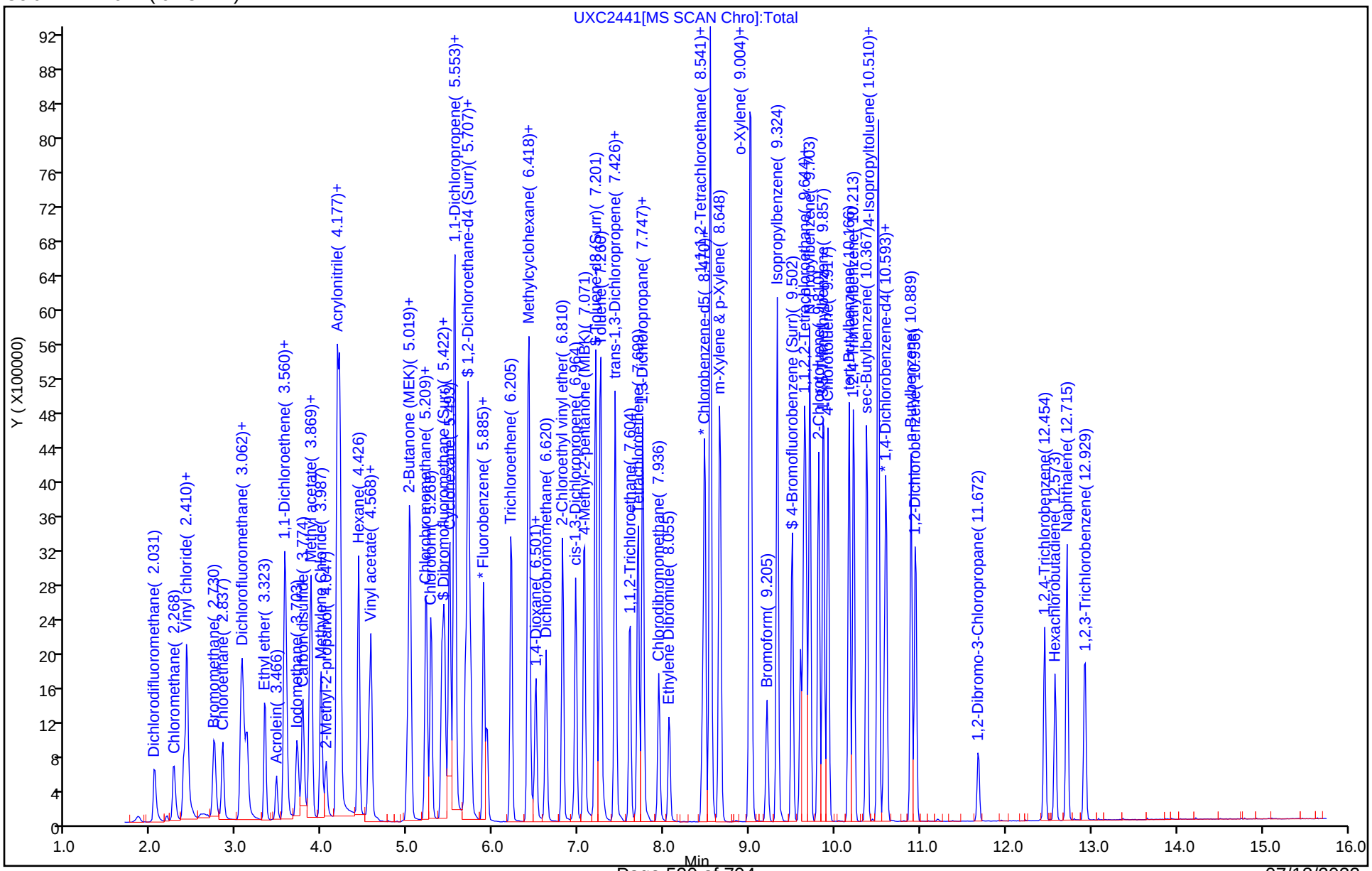
Report Date: 20-Jun-2022 10:42:52 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2441.D

Injection Date:	17-Jun-2022 18:14:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	std8260 L8			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

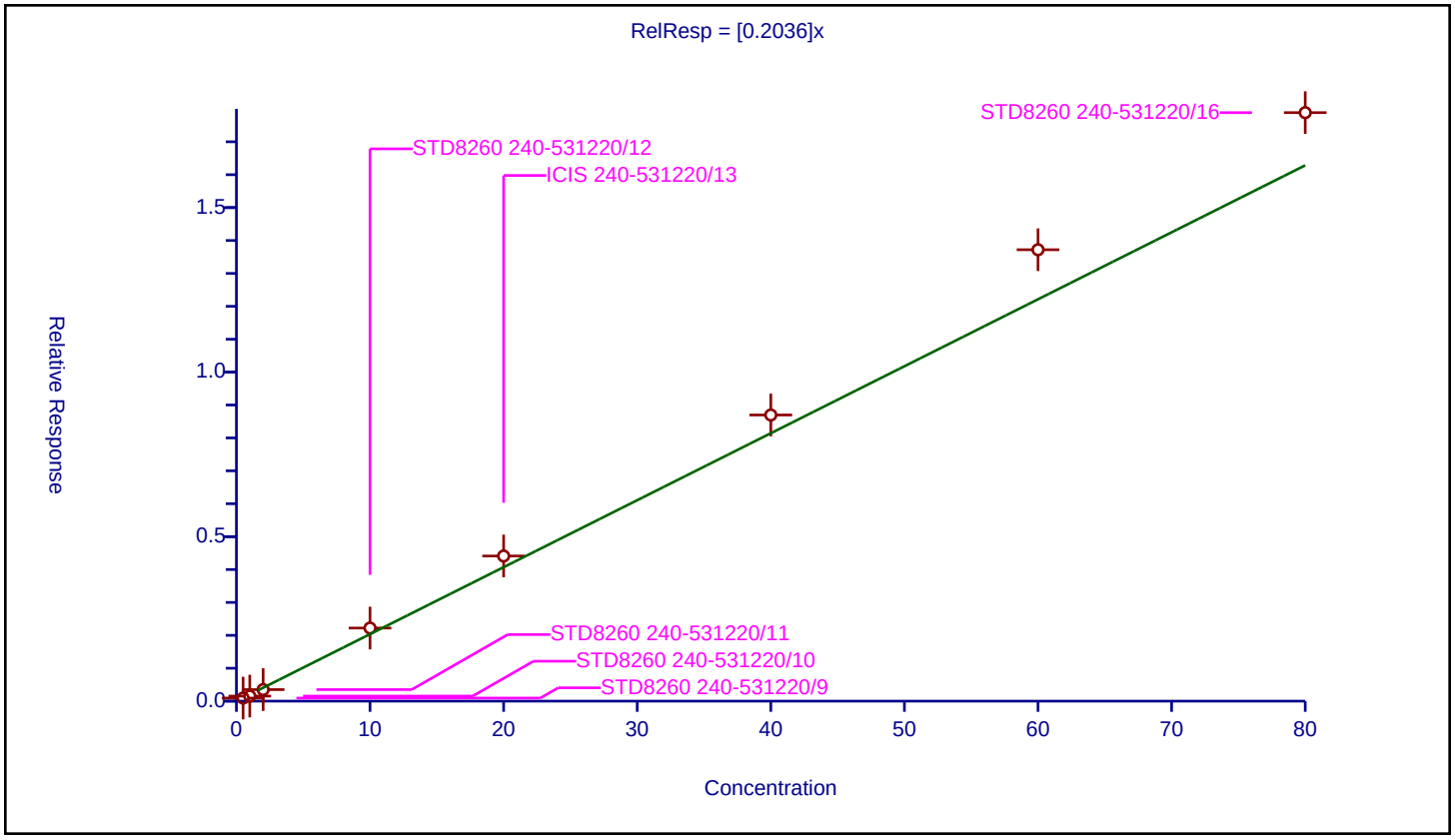
Curve Coefficients

Intercept:	0
Slope:	0.2036

Error Coefficients

Standard Error:	482000
Relative Standard Error:	13.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.093403	20.0	940017.0	0.186805	Y
2	STD8260 240-531220/10	1.0	0.153705	20.0	1011549.0	0.153705	Y
3	STD8260 240-531220/11	2.0	0.351047	20.0	983573.0	0.175523	Y
4	STD8260 240-531220/12	10.0	2.221915	20.0	1018383.0	0.222191	Y
5	ICIS 240-531220/13	20.0	4.411645	20.0	1012688.0	0.220582	Y
6	STD8260 240-531220/14	40.0	8.696723	20.0	1043186.0	0.217418	Y
7	STD8260 240-531220/15	60.0	13.719398	20.0	1027981.0	0.228657	Y
8	STD8260 240-531220/16	80.0	17.885691	20.0	1035752.0	0.223571	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

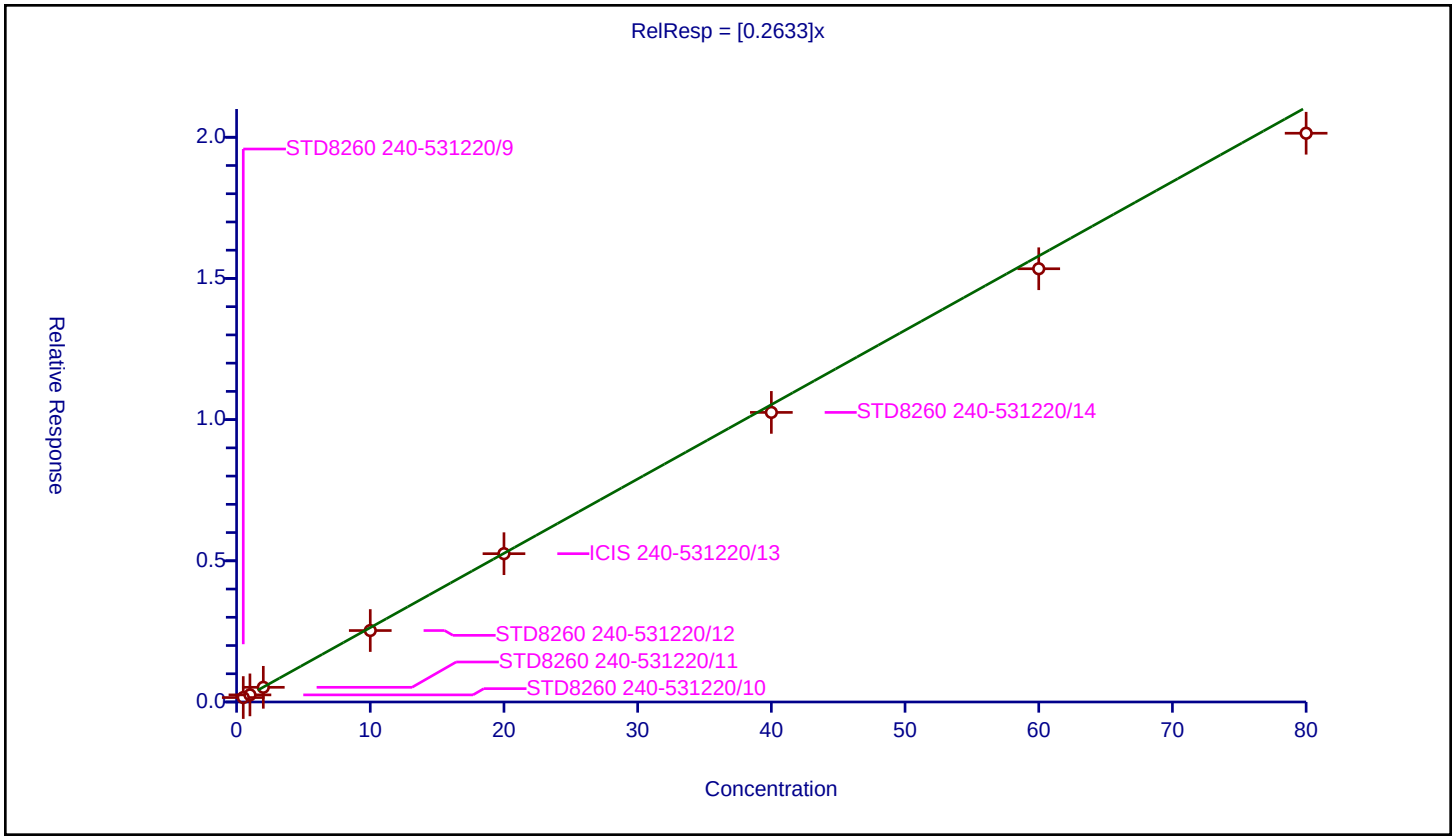
Curve Coefficients

Intercept:	0
Slope:	0.2633

Error Coefficients

Standard Error:	546000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.157274	20.0	940017.0	0.314548	Y
2	STD8260 240-531220/10	1.0	0.252148	20.0	1011549.0	0.252148	Y
3	STD8260 240-531220/11	2.0	0.519636	20.0	983573.0	0.259818	Y
4	STD8260 240-531220/12	10.0	2.530423	20.0	1018383.0	0.253042	Y
5	ICIS 240-531220/13	20.0	5.252279	20.0	1012688.0	0.262614	Y
6	STD8260 240-531220/14	40.0	10.255487	20.0	1043186.0	0.256387	Y
7	STD8260 240-531220/15	60.0	15.342968	20.0	1027981.0	0.255716	Y
8	STD8260 240-531220/16	80.0	20.14237	20.0	1035752.0	0.25178	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

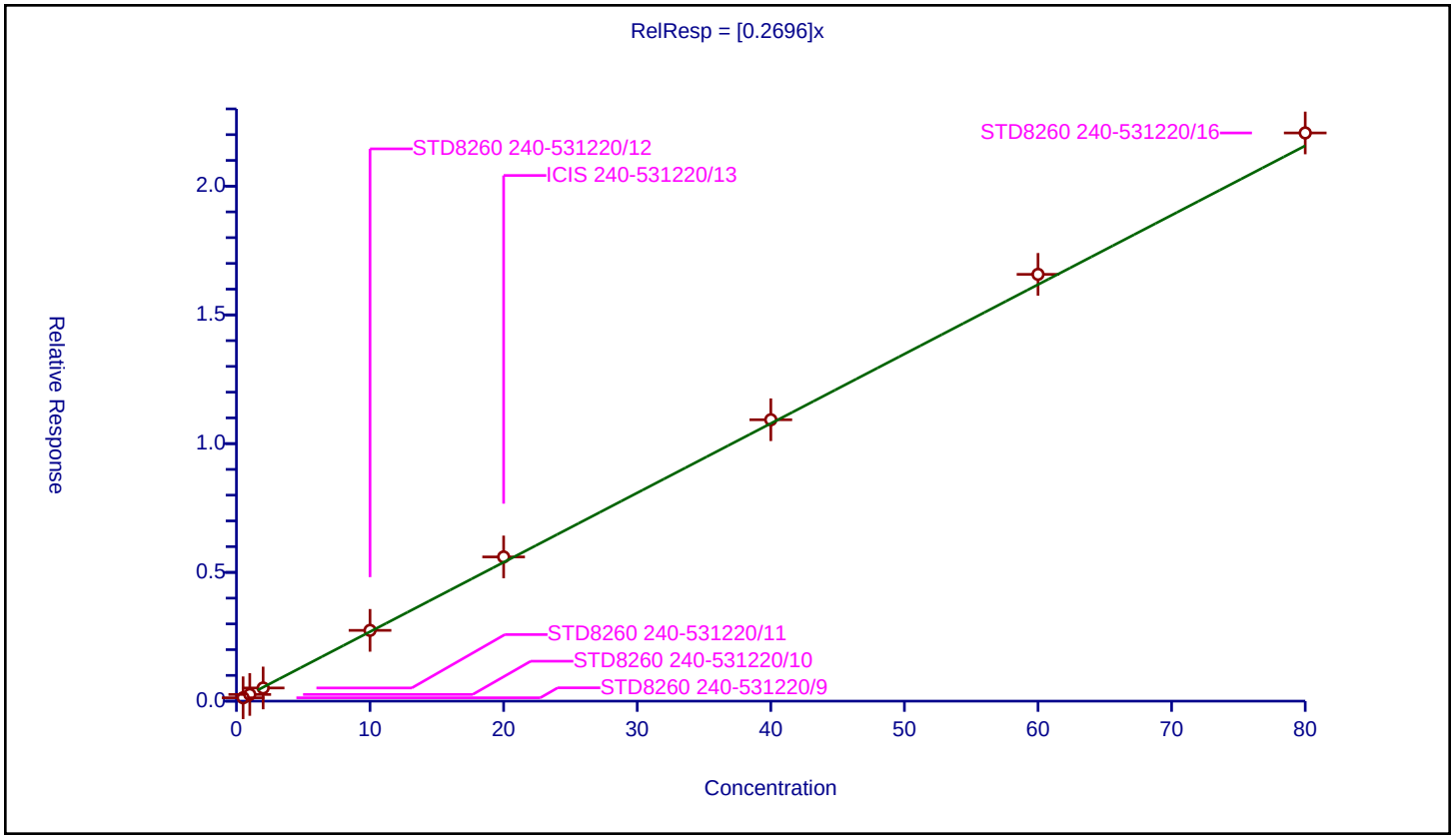
Curve Coefficients

Intercept:	0
Slope:	0.2696

Error Coefficients

Standard Error:	592000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.13087	20.0	940017.0	0.26174	Y
2	STD8260 240-531220/10	1.0	0.259286	20.0	1011549.0	0.259286	Y
3	STD8260 240-531220/11	2.0	0.511319	20.0	983573.0	0.25566	Y
4	STD8260 240-531220/12	10.0	2.748769	20.0	1018383.0	0.274877	Y
5	ICIS 240-531220/13	20.0	5.600896	20.0	1012688.0	0.280045	Y
6	STD8260 240-531220/14	40.0	10.92831	20.0	1043186.0	0.273208	Y
7	STD8260 240-531220/15	60.0	16.574217	20.0	1027981.0	0.276237	Y
8	STD8260 240-531220/16	80.0	22.066499	20.0	1035752.0	0.275831	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

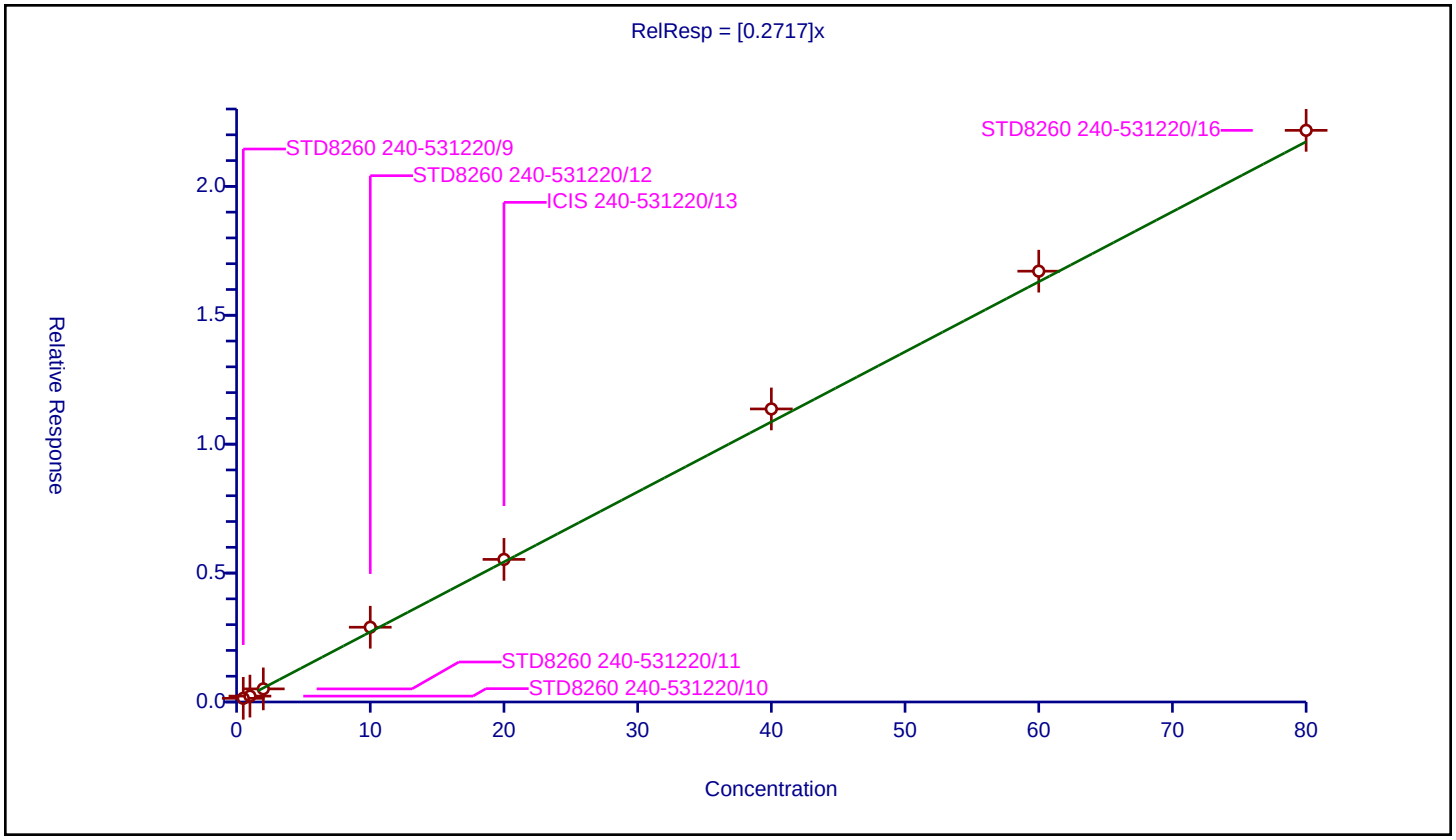
Curve Coefficients

Intercept:	0
Slope:	0.2717

Error Coefficients

Standard Error:	599000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.142295	20.0	940017.0	0.284591	Y
2	STD8260 240-531220/10	1.0	0.228106	20.0	1011549.0	0.228106	Y
3	STD8260 240-531220/11	2.0	0.508452	20.0	983573.0	0.254226	Y
4	STD8260 240-531220/12	10.0	2.89944	20.0	1018383.0	0.289944	Y
5	ICIS 240-531220/13	20.0	5.530706	20.0	1012688.0	0.276535	Y
6	STD8260 240-531220/14	40.0	11.366794	20.0	1043186.0	0.28417	Y
7	STD8260 240-531220/15	60.0	16.710328	20.0	1027981.0	0.278505	Y
8	STD8260 240-531220/16	80.0	22.172972	20.0	1035752.0	0.277162	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

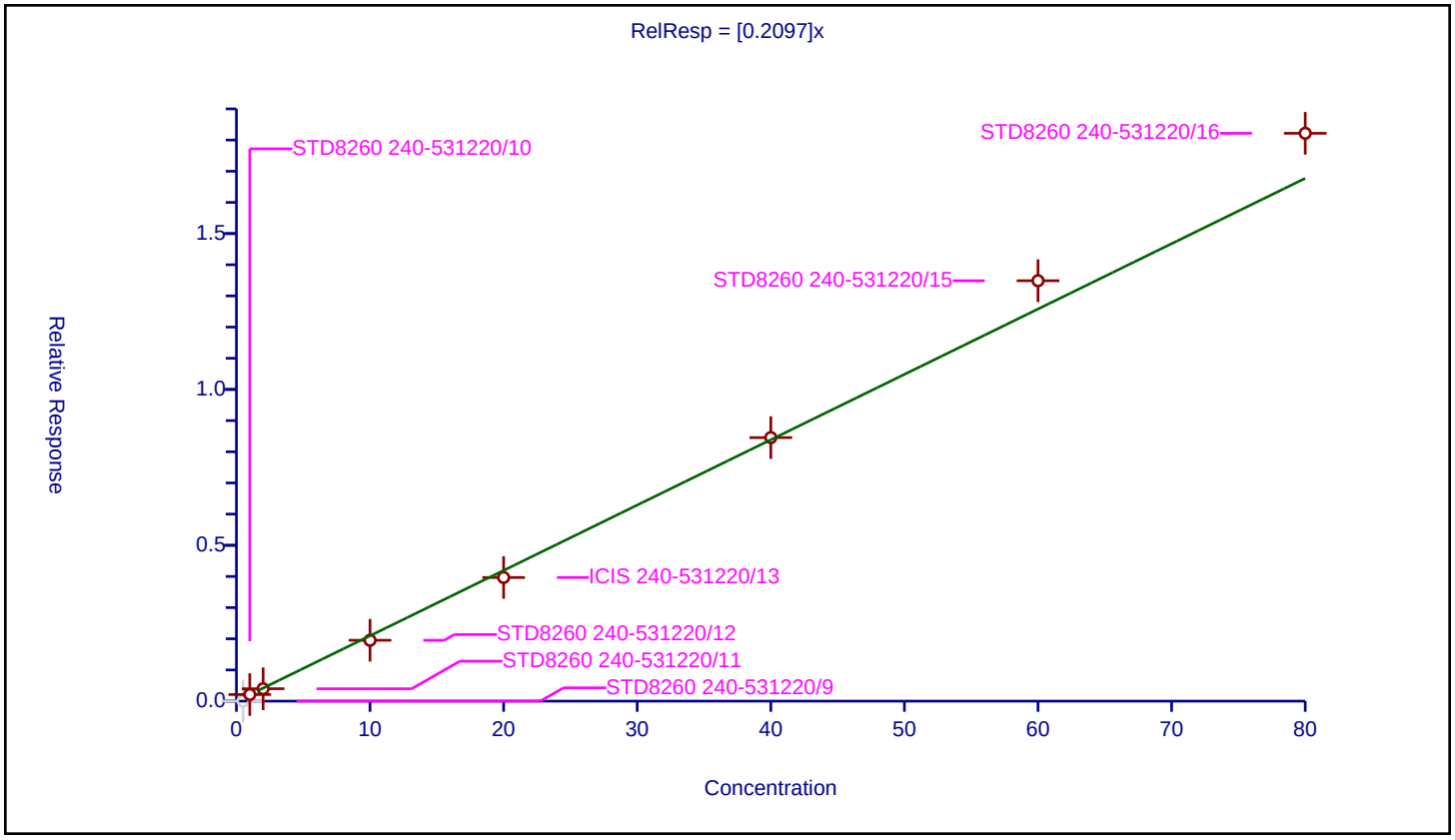
Curve Coefficients

Intercept:	0
Slope:	0.2097

Error Coefficients

Standard Error:	519000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	1.0	0.211181	20.0	1011549.0	0.211181	Y
3	STD8260 240-531220/11	2.0	0.397896	20.0	983573.0	0.198948	Y
4	STD8260 240-531220/12	10.0	1.952546	20.0	1018383.0	0.195255	Y
5	ICIS 240-531220/13	20.0	3.966236	20.0	1012688.0	0.198312	Y
6	STD8260 240-531220/14	40.0	8.454619	20.0	1043186.0	0.211365	Y
7	STD8260 240-531220/15	60.0	13.486786	20.0	1027981.0	0.22478	Y
8	STD8260 240-531220/16	80.0	18.21743	20.0	1035752.0	0.227718	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

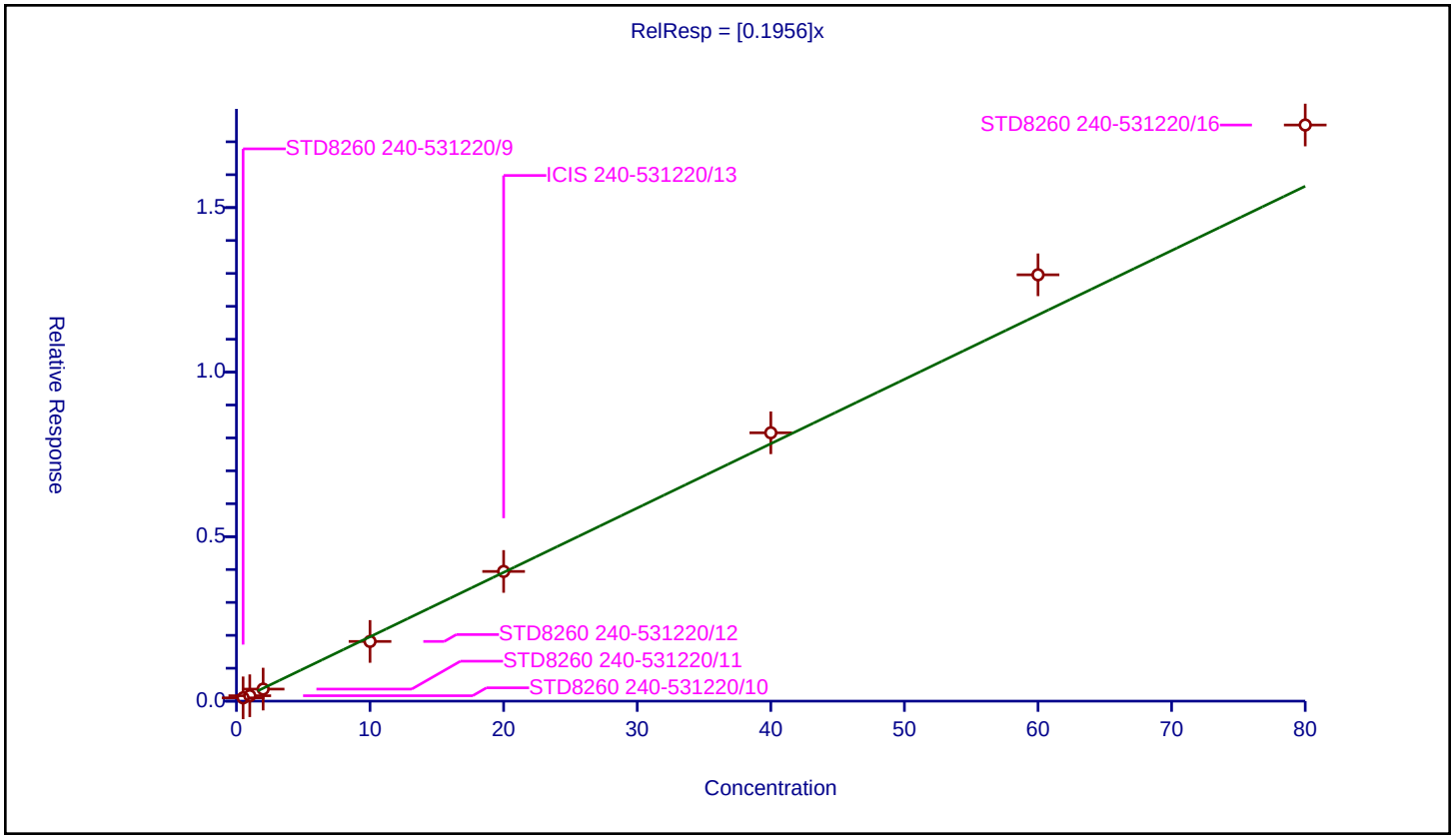
Curve Coefficients

Intercept:	0
Slope:	0.1956

Error Coefficients

Standard Error:	462000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.099977	20.0	940017.0	0.199954	Y
2	STD8260 240-531220/10	1.0	0.164599	20.0	1011549.0	0.164599	Y
3	STD8260 240-531220/11	2.0	0.366297	20.0	983573.0	0.183149	Y
4	STD8260 240-531220/12	10.0	1.814622	20.0	1018383.0	0.181462	Y
5	ICIS 240-531220/13	20.0	3.941984	20.0	1012688.0	0.197099	Y
6	STD8260 240-531220/14	40.0	8.155976	20.0	1043186.0	0.203899	Y
7	STD8260 240-531220/15	60.0	12.958022	20.0	1027981.0	0.215967	Y
8	STD8260 240-531220/16	80.0	17.510311	20.0	1035752.0	0.218879	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

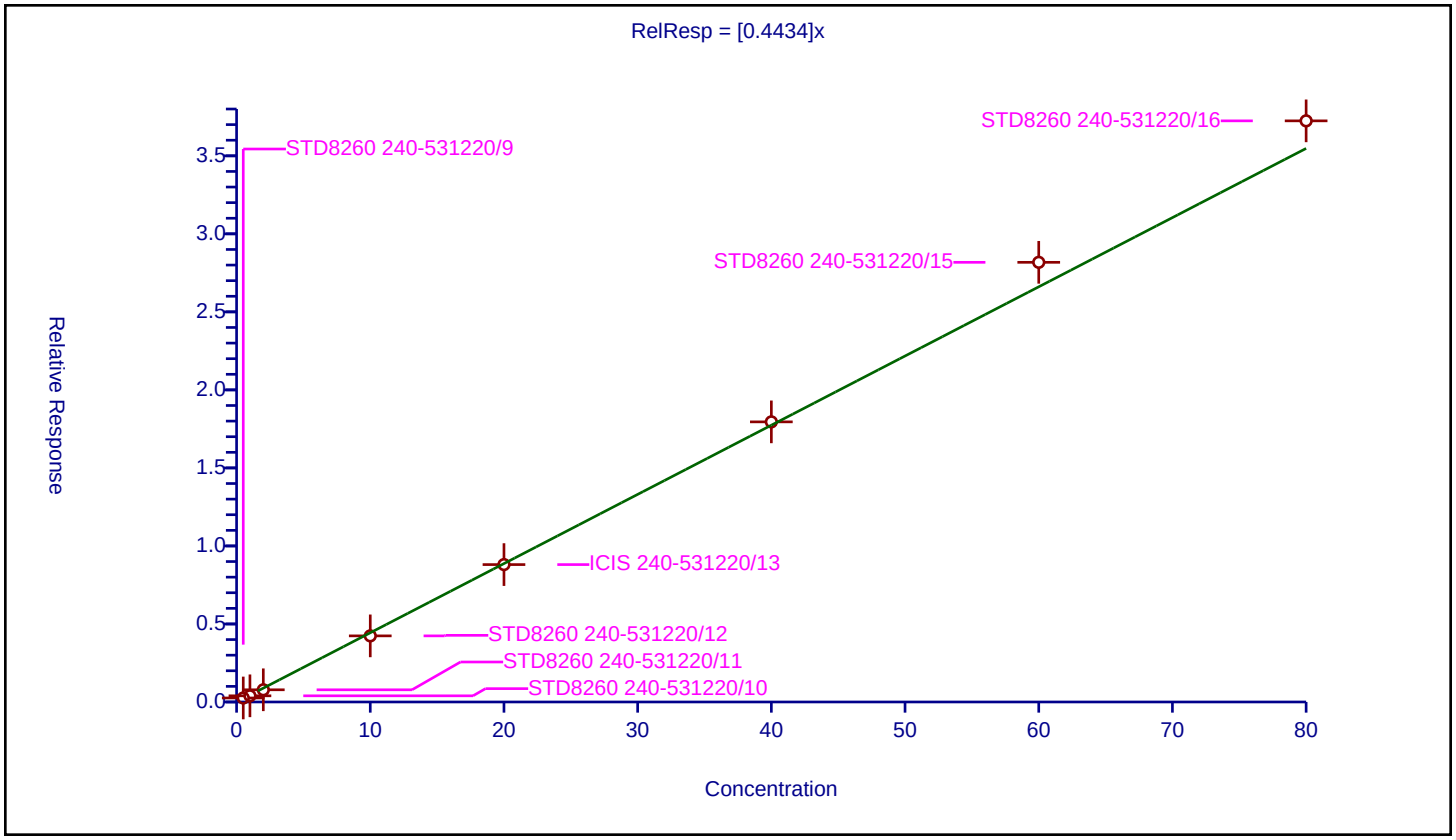
Curve Coefficients

Intercept:	0
Slope:	0.4434

Error Coefficients

Standard Error:	996000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.256846	20.0	940017.0	0.513693	Y
2	STD8260 240-531220/10	1.0	0.395255	20.0	1011549.0	0.395255	Y
3	STD8260 240-531220/11	2.0	0.781376	20.0	983573.0	0.390688	Y
4	STD8260 240-531220/12	10.0	4.236677	20.0	1018383.0	0.423668	Y
5	ICIS 240-531220/13	20.0	8.805753	20.0	1012688.0	0.440288	Y
6	STD8260 240-531220/14	40.0	17.951621	20.0	1043186.0	0.448791	Y
7	STD8260 240-531220/15	60.0	28.176143	20.0	1027981.0	0.469602	Y
8	STD8260 240-531220/16	80.0	37.241	20.0	1035752.0	0.465512	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

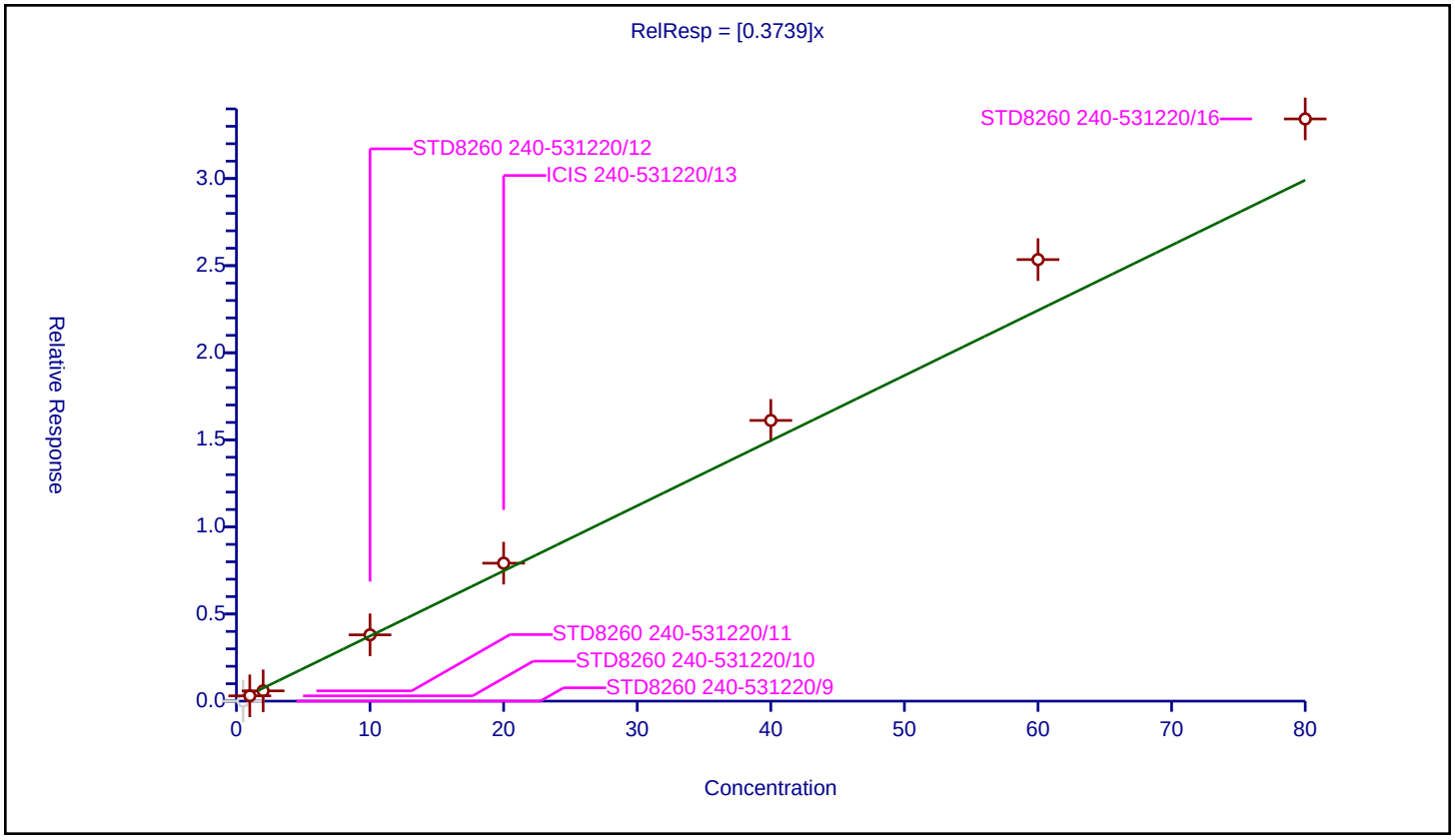
Curve Coefficients

Intercept:	0
Slope:	0.3739

Error Coefficients

Standard Error:	966000
Relative Standard Error:	14.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	1.0	0.30308	20.0	1011549.0	0.30308	Y
3	STD8260 240-531220/11	2.0	0.588751	20.0	983573.0	0.294376	Y
4	STD8260 240-531220/12	10.0	3.806701	20.0	1018383.0	0.38067	Y
5	ICIS 240-531220/13	20.0	7.9193	20.0	1012688.0	0.395965	Y
6	STD8260 240-531220/14	40.0	16.114595	20.0	1043186.0	0.402865	Y
7	STD8260 240-531220/15	60.0	25.349165	20.0	1027981.0	0.422486	Y
8	STD8260 240-531220/16	80.0	33.423039	20.0	1035752.0	0.417788	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

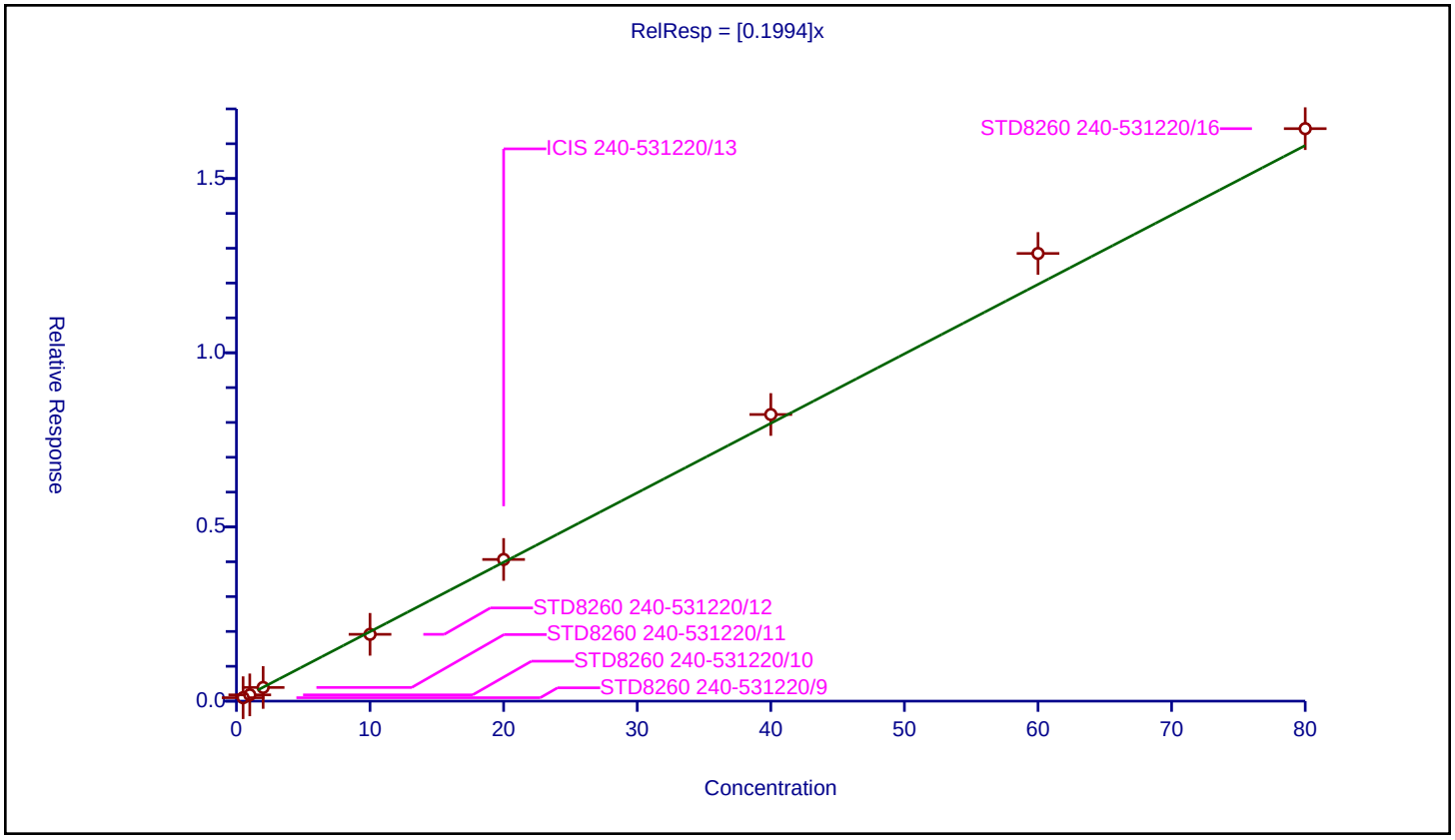
Curve Coefficients

Intercept:	0
Slope:	0.1994

Error Coefficients

Standard Error:	447000
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 240-531220/9	0.5	0.098956	20.0	940017.0	0.197911	Y
2	STD8260 240-531220/10	1.0	0.180298	20.0	1011549.0	0.180298	Y
3	STD8260 240-531220/11	2.0	0.39265	20.0	983573.0	0.196325	Y
4	STD8260 240-531220/12	10.0	1.91808	20.0	1018383.0	0.191808	Y
5	ICIS 240-531220/13	20.0	4.0668	20.0	1012688.0	0.20334	Y
6	STD8260 240-531220/14	40.0	8.227814	20.0	1043186.0	0.205695	Y
7	STD8260 240-531220/15	60.0	12.850588	20.0	1027981.0	0.214176	Y
8	STD8260 240-531220/16	80.0	16.432737	20.0	1035752.0	0.205409	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

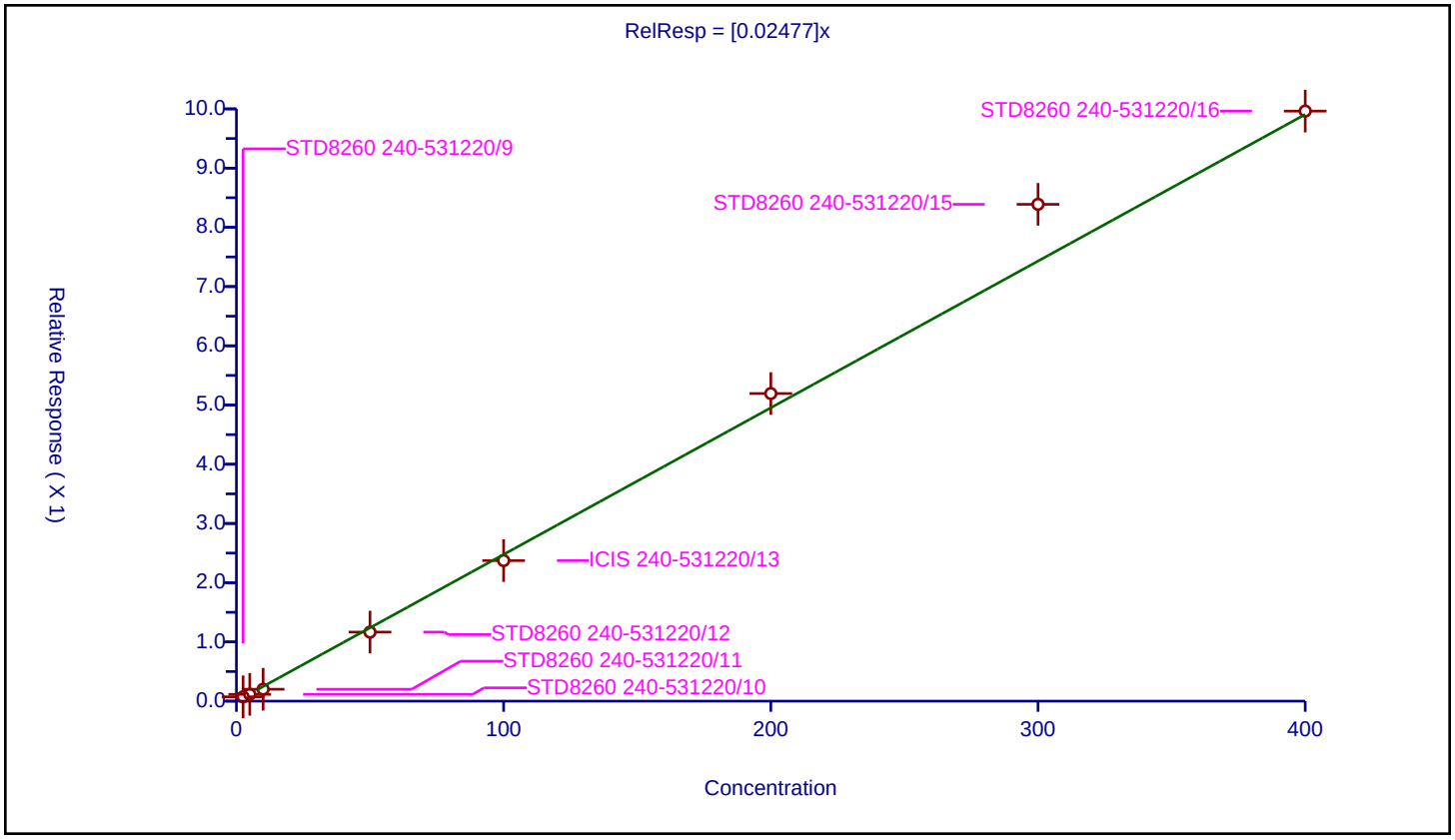
Curve Coefficients

Intercept:	0
Slope:	0.02477

Error Coefficients

Standard Error:	279000
Relative Standard Error:	11.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	2.5	0.072956	20.0	940017.0	0.029182	Y
2	STD8260 240-531220/10	5.0	0.114913	20.0	1011549.0	0.022983	Y
3	STD8260 240-531220/11	10.0	0.200839	20.0	983573.0	0.020084	Y
4	STD8260 240-531220/12	50.0	1.165671	20.0	1018383.0	0.023313	Y
5	ICIS 240-531220/13	100.0	2.373169	20.0	1012688.0	0.023732	Y
6	STD8260 240-531220/14	200.0	5.193896	20.0	1043186.0	0.025969	Y
7	STD8260 240-531220/15	300.0	8.38889	20.0	1027981.0	0.027963	Y
8	STD8260 240-531220/16	400.0	9.962887	20.0	1035752.0	0.024907	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

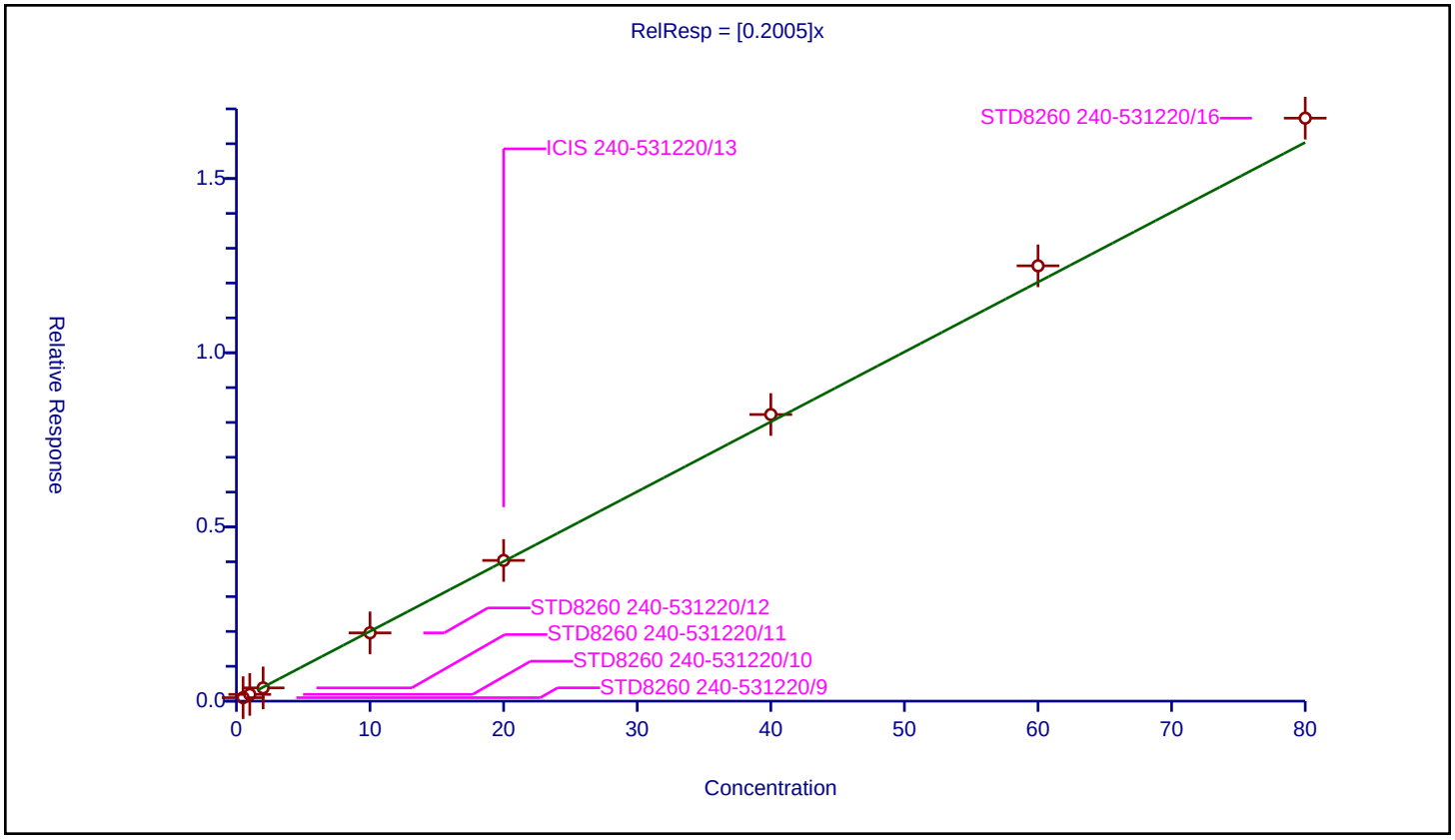
Curve Coefficients

Intercept:	0
Slope:	0.2005

Error Coefficients

Standard Error:	447000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.099466	20.0	940017.0	0.198933	Y
2	STD8260 240-531220/10	1.0	0.193663	20.0	1011549.0	0.193663	Y
3	STD8260 240-531220/11	2.0	0.380043	20.0	983573.0	0.190021	Y
4	STD8260 240-531220/12	10.0	1.960029	20.0	1018383.0	0.196003	Y
5	ICIS 240-531220/13	20.0	4.039408	20.0	1012688.0	0.20197	Y
6	STD8260 240-531220/14	40.0	8.227449	20.0	1043186.0	0.205686	Y
7	STD8260 240-531220/15	60.0	12.495153	20.0	1027981.0	0.208253	Y
8	STD8260 240-531220/16	80.0	16.734122	20.0	1035752.0	0.209177	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

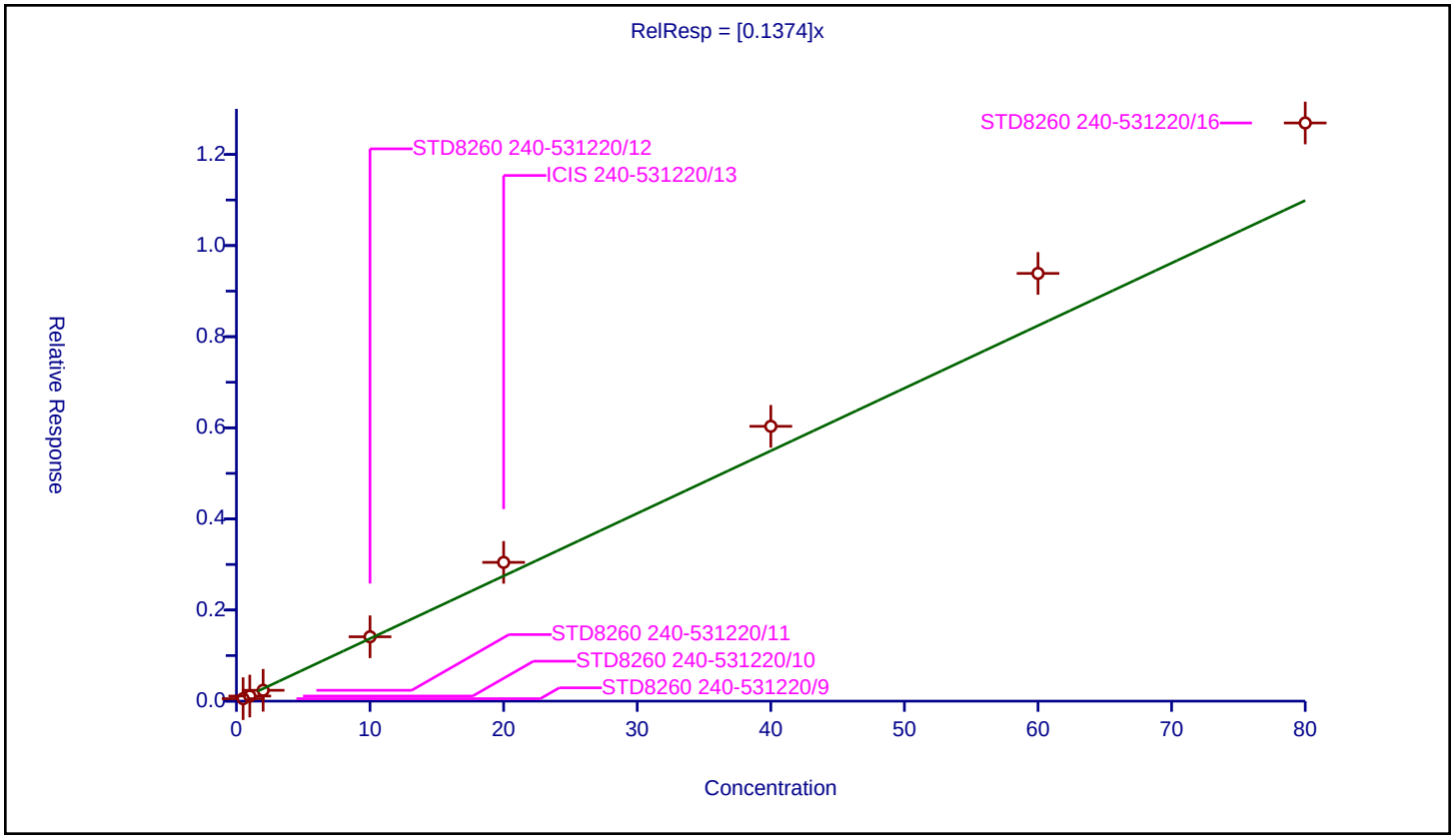
Curve Coefficients

Intercept:	0
Slope:	0.1374

Error Coefficients

Standard Error:	337000
Relative Standard Error:	15.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.054084	20.0	940017.0	0.108168	Y
2	STD8260 240-531220/10	1.0	0.112066	20.0	1011549.0	0.112066	Y
3	STD8260 240-531220/11	2.0	0.238335	20.0	983573.0	0.119168	Y
4	STD8260 240-531220/12	10.0	1.412946	20.0	1018383.0	0.141295	Y
5	ICIS 240-531220/13	20.0	3.046348	20.0	1012688.0	0.152317	Y
6	STD8260 240-531220/14	40.0	6.03252	20.0	1043186.0	0.150813	Y
7	STD8260 240-531220/15	60.0	9.388909	20.0	1027981.0	0.156482	Y
8	STD8260 240-531220/16	80.0	12.690644	20.0	1035752.0	0.158633	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

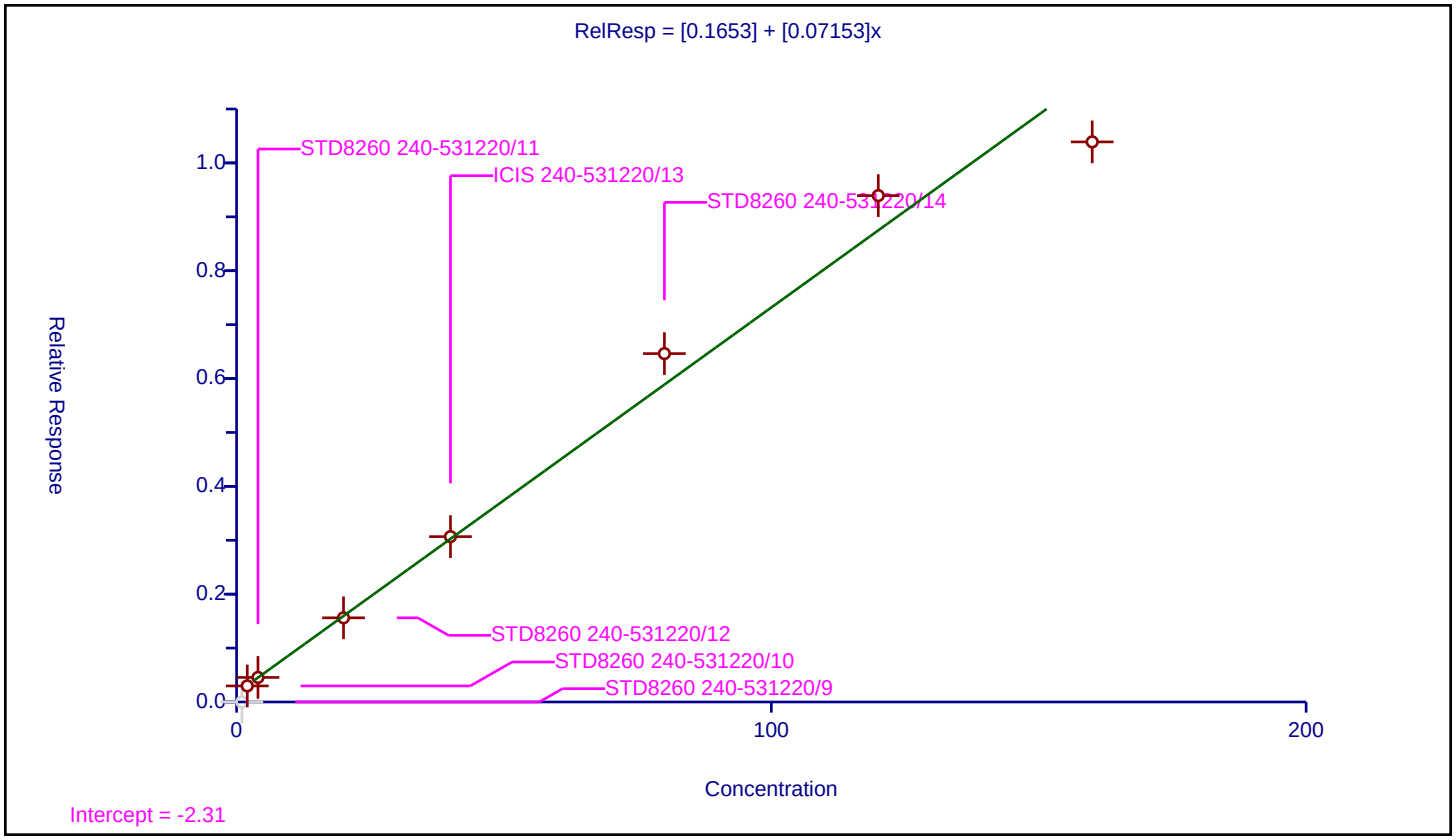
Curve Coefficients

Intercept:	0.1653
Slope:	0.07153

Error Coefficients

Standard Error:	365000
Relative Standard Error:	8.2
Correlation Coefficient:	0.981
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	1.0	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	2.0	0.297801	20.0	1011549.0	0.1489	Y
3	STD8260 240-531220/11	4.0	0.455523	20.0	983573.0	0.113881	Y
4	STD8260 240-531220/12	20.0	1.561691	20.0	1018383.0	0.078085	Y
5	ICIS 240-531220/13	40.0	3.067401	20.0	1012688.0	0.076685	Y
6	STD8260 240-531220/14	80.0	6.462932	20.0	1043186.0	0.080787	Y
7	STD8260 240-531220/15	120.0	9.39352	20.0	1027981.0	0.078279	Y
8	STD8260 240-531220/16	160.0	10.389939	20.0	1035752.0	0.064937	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

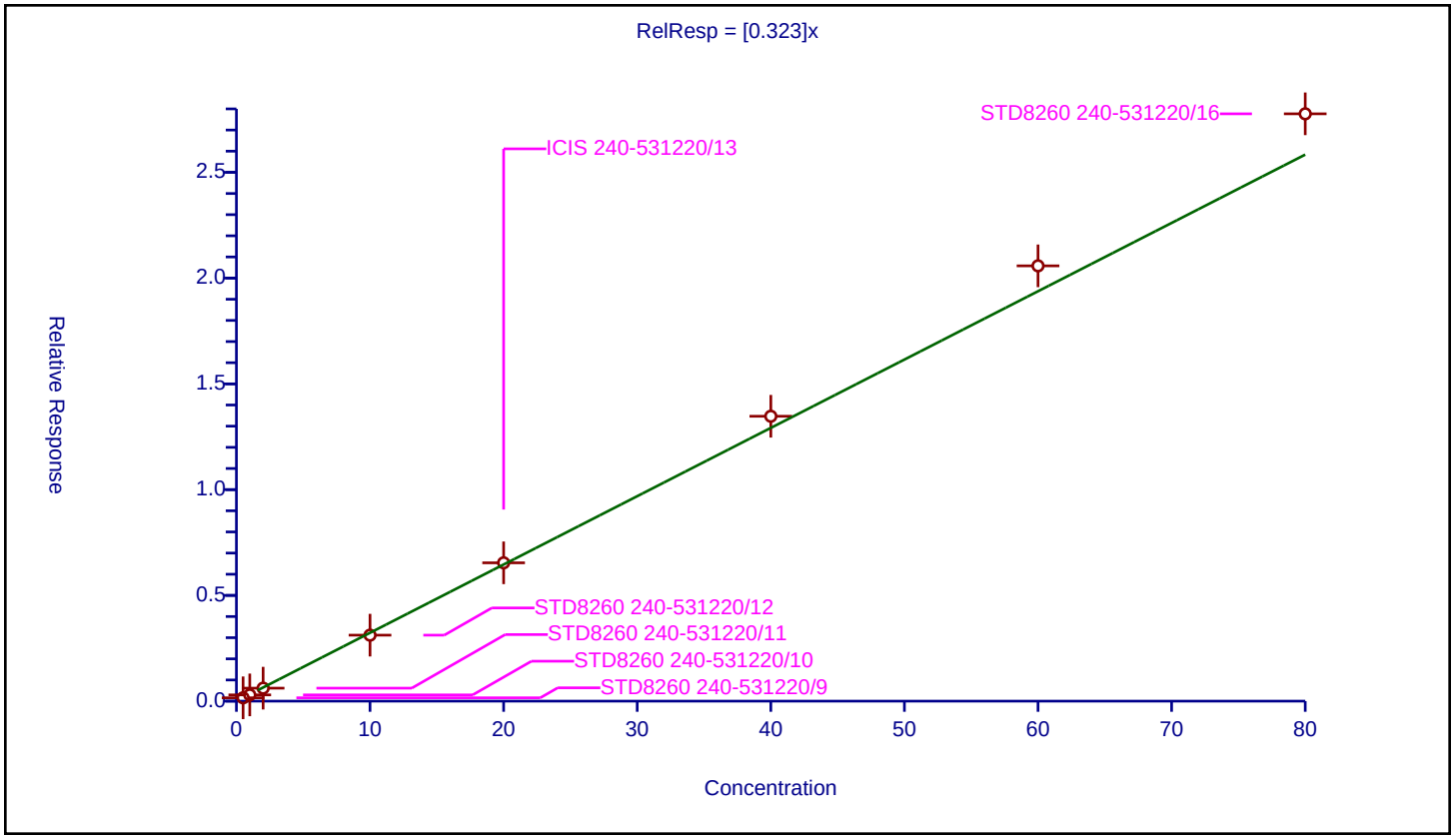
Curve Coefficients

Intercept:	0
Slope:	0.323

Error Coefficients

Standard Error:	738000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.157763	20.0	940017.0	0.315526	Y
2	STD8260 240-531220/10	1.0	0.295547	20.0	1011549.0	0.295547	Y
3	STD8260 240-531220/11	2.0	0.613925	20.0	983573.0	0.306962	Y
4	STD8260 240-531220/12	10.0	3.119239	20.0	1018383.0	0.311924	Y
5	ICIS 240-531220/13	20.0	6.540119	20.0	1012688.0	0.327006	Y
6	STD8260 240-531220/14	40.0	13.468605	20.0	1043186.0	0.336715	Y
7	STD8260 240-531220/15	60.0	20.579447	20.0	1027981.0	0.342991	Y
8	STD8260 240-531220/16	80.0	27.766666	20.0	1035752.0	0.347083	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

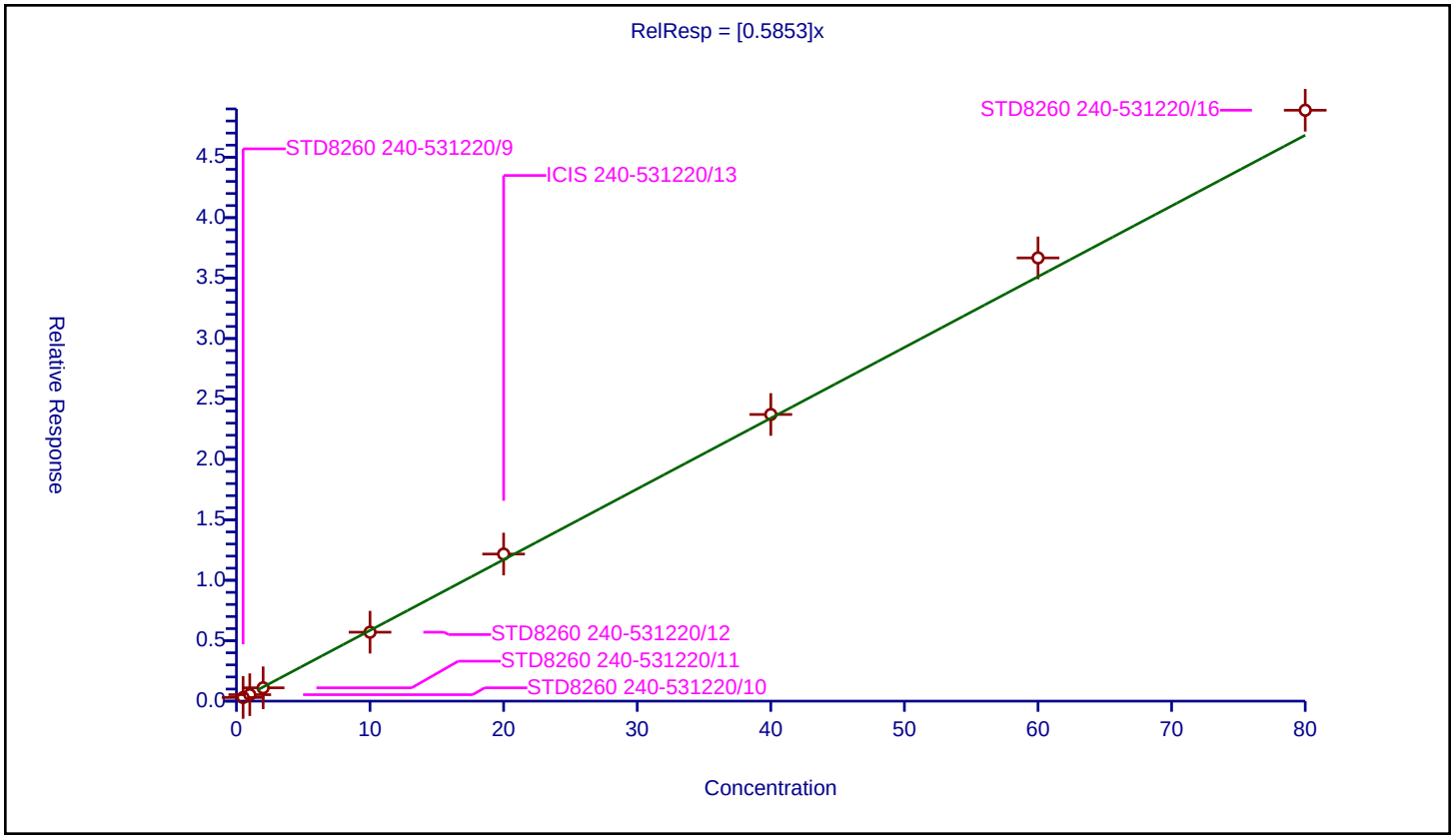
Curve Coefficients

Intercept:	0
Slope:	0.5853

Error Coefficients

Standard Error:	1310000
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 240-531220/9	0.5	0.301569	20.0	940017.0	0.603138	Y
2	STD8260 240-531220/10	1.0	0.534072	20.0	1011549.0	0.534072	Y
3	STD8260 240-531220/11	2.0	1.102389	20.0	983573.0	0.551194	Y
4	STD8260 240-531220/12	10.0	5.703218	20.0	1018383.0	0.570322	Y
5	ICIS 240-531220/13	20.0	12.170165	20.0	1012688.0	0.608508	Y
6	STD8260 240-531220/14	40.0	23.718148	20.0	1043186.0	0.592954	Y
7	STD8260 240-531220/15	60.0	36.670639	20.0	1027981.0	0.611177	Y
8	STD8260 240-531220/16	80.0	48.890043	20.0	1035752.0	0.611126	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

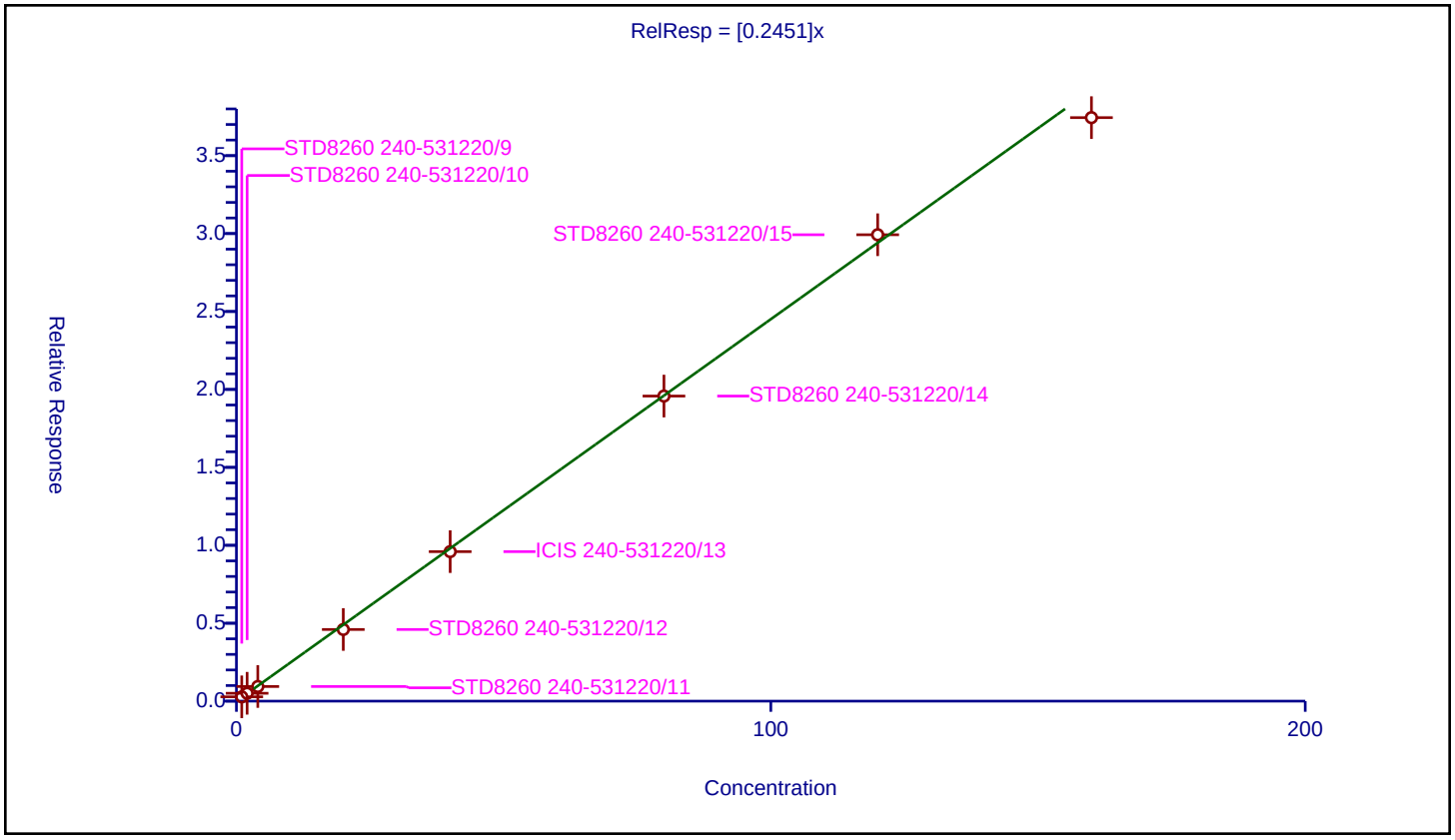
Curve Coefficients

Intercept:	0
Slope:	0.2451

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	1.0	0.275293	20.0	940017.0	0.275293	Y
2	STD8260 240-531220/10	2.0	0.505383	20.0	1011549.0	0.252692	Y
3	STD8260 240-531220/11	4.0	0.938802	20.0	983573.0	0.2347	Y
4	STD8260 240-531220/12	20.0	4.59772	20.0	1018383.0	0.229886	Y
5	ICIS 240-531220/13	40.0	9.592214	20.0	1012688.0	0.239805	Y
6	STD8260 240-531220/14	80.0	19.575397	20.0	1043186.0	0.244692	Y
7	STD8260 240-531220/15	120.0	29.924872	20.0	1027981.0	0.249374	Y
8	STD8260 240-531220/16	160.0	37.440121	20.0	1035752.0	0.234001	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

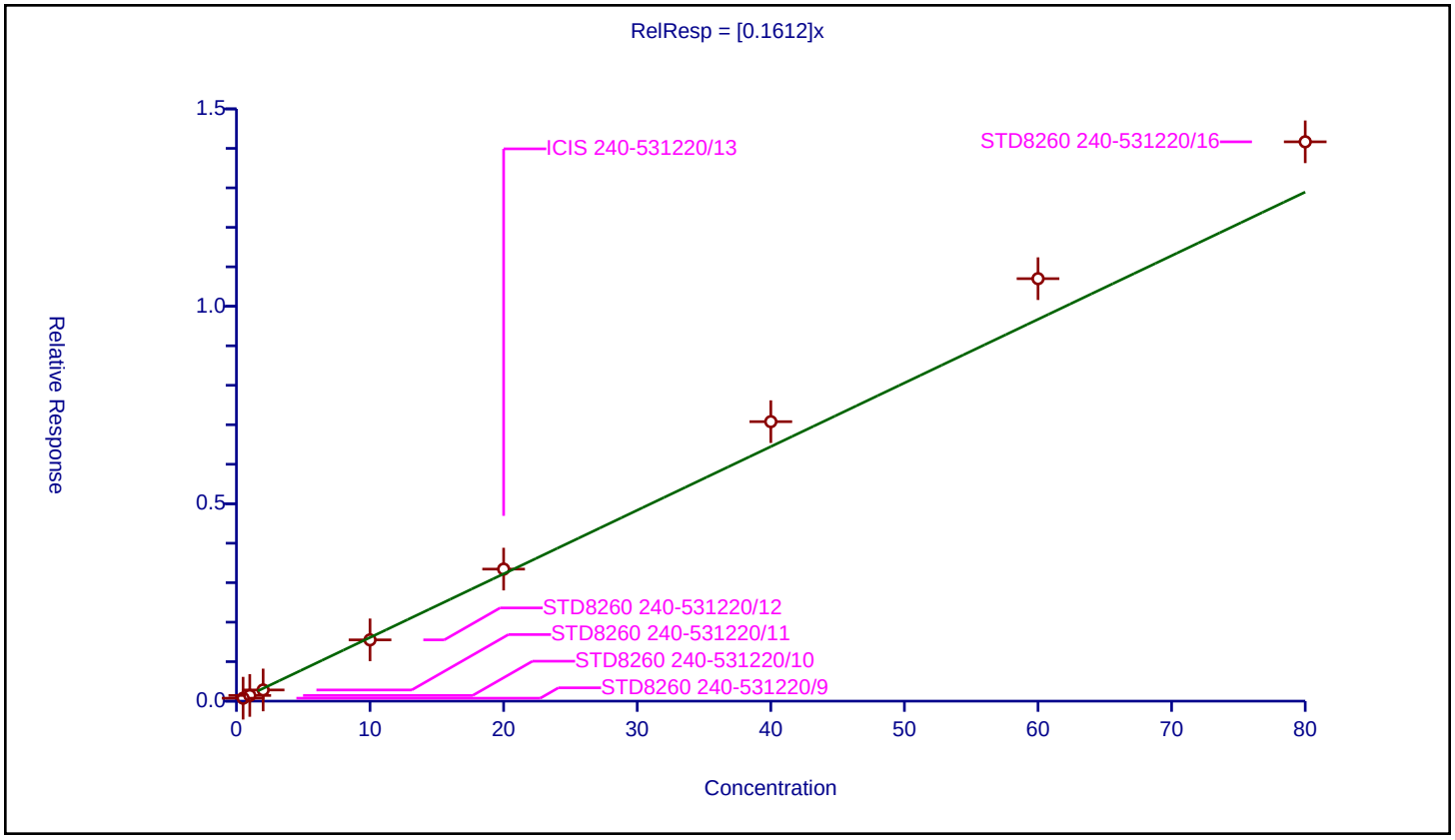
Curve Coefficients

Intercept:	0
Slope:	0.1612

Error Coefficients

Standard Error:	380000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.074786	20.0	940017.0	0.149572	Y
2	STD8260 240-531220/10	1.0	0.143681	20.0	1011549.0	0.143681	Y
3	STD8260 240-531220/11	2.0	0.282704	20.0	983573.0	0.141352	Y
4	STD8260 240-531220/12	10.0	1.551518	20.0	1018383.0	0.155152	Y
5	ICIS 240-531220/13	20.0	3.344386	20.0	1012688.0	0.167219	Y
6	STD8260 240-531220/14	40.0	7.078239	20.0	1043186.0	0.176956	Y
7	STD8260 240-531220/15	60.0	10.700334	20.0	1027981.0	0.178339	Y
8	STD8260 240-531220/16	80.0	14.166461	20.0	1035752.0	0.177081	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

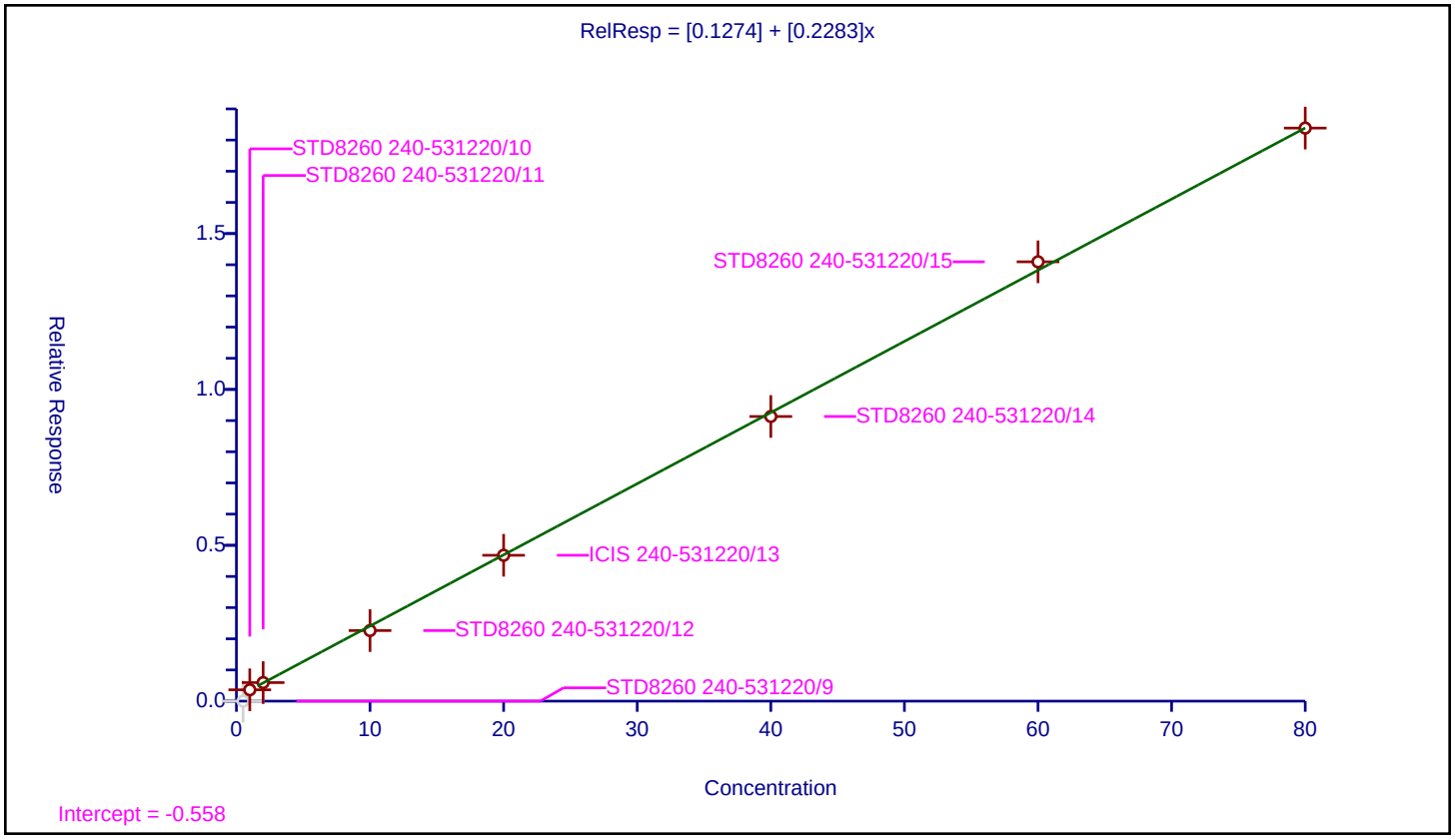
Curve Coefficients

Intercept:	0.1274
Slope:	0.2283

Error Coefficients

Standard Error:	588000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	1.0	0.363878	20.0	1011549.0	0.363878	Y
3	STD8260 240-531220/11	2.0	0.595543	20.0	983573.0	0.297771	Y
4	STD8260 240-531220/12	10.0	2.263569	20.0	1018383.0	0.226357	Y
5	ICIS 240-531220/13	20.0	4.679032	20.0	1012688.0	0.233952	Y
6	STD8260 240-531220/14	40.0	9.131718	20.0	1043186.0	0.228293	Y
7	STD8260 240-531220/15	60.0	14.094969	20.0	1027981.0	0.234916	Y
8	STD8260 240-531220/16	80.0	18.384922	20.0	1035752.0	0.229812	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

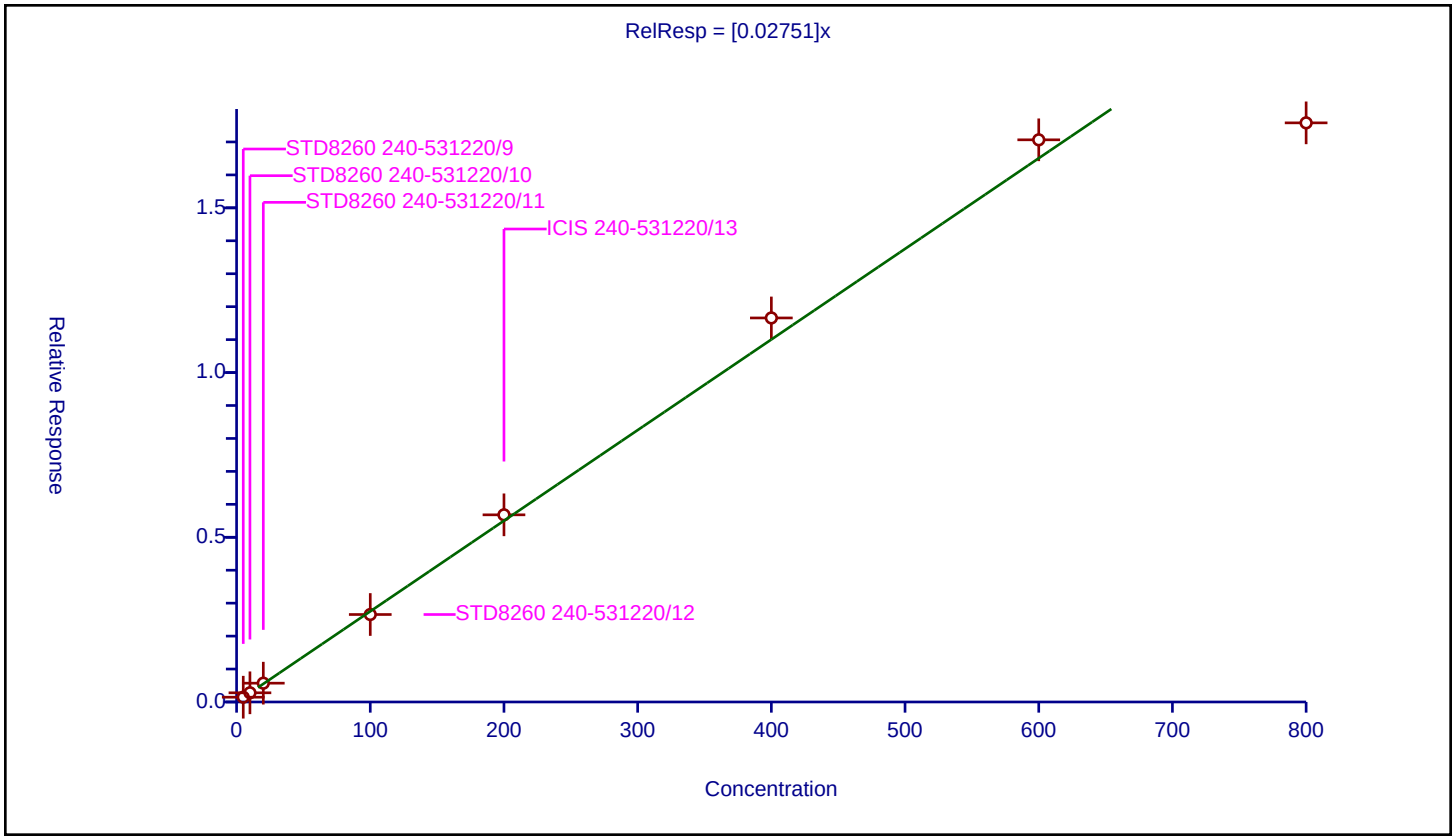
Curve Coefficients

Intercept:	0
Slope:	0.02751

Error Coefficients

Standard Error:	544000
Relative Standard Error:	8.6
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	5.0	0.14538	20.0	940017.0	0.029076	Y
2	STD8260 240-531220/10	10.0	0.279156	20.0	1011549.0	0.027916	Y
3	STD8260 240-531220/11	20.0	0.571223	20.0	983573.0	0.028561	Y
4	STD8260 240-531220/12	100.0	2.655111	20.0	1018383.0	0.026551	Y
5	ICIS 240-531220/13	200.0	5.681473	20.0	1012688.0	0.028407	Y
6	STD8260 240-531220/14	400.0	11.657959	20.0	1043186.0	0.029145	Y
7	STD8260 240-531220/15	600.0	17.064771	20.0	1027981.0	0.028441	Y
8	STD8260 240-531220/16	800.0	17.579652	20.0	1035752.0	0.021975	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

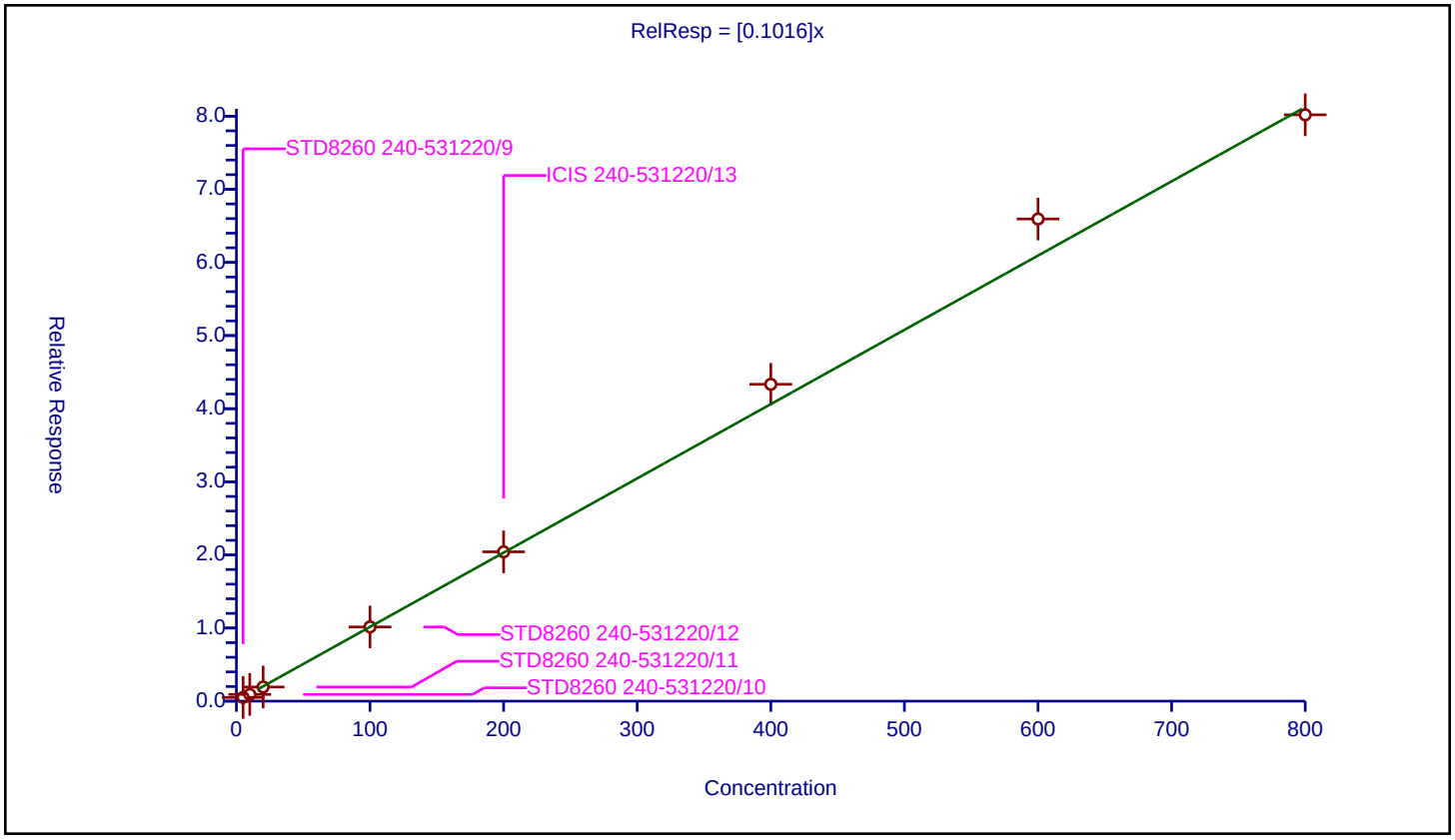
Curve Coefficients

Intercept:	0
Slope:	0.1016

Error Coefficients

Standard Error:	2240000
Relative Standard Error:	5.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	5.0	0.508544	20.0	940017.0	0.101709	Y
2	STD8260 240-531220/10	10.0	0.918057	20.0	1011549.0	0.091806	Y
3	STD8260 240-531220/11	20.0	1.936043	20.0	983573.0	0.096802	Y
4	STD8260 240-531220/12	100.0	10.151151	20.0	1018383.0	0.101512	Y
5	ICIS 240-531220/13	200.0	20.420919	20.0	1012688.0	0.102105	Y
6	STD8260 240-531220/14	400.0	43.335743	20.0	1043186.0	0.108339	Y
7	STD8260 240-531220/15	600.0	65.939623	20.0	1027981.0	0.109899	Y
8	STD8260 240-531220/16	800.0	80.192382	20.0	1035752.0	0.10024	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

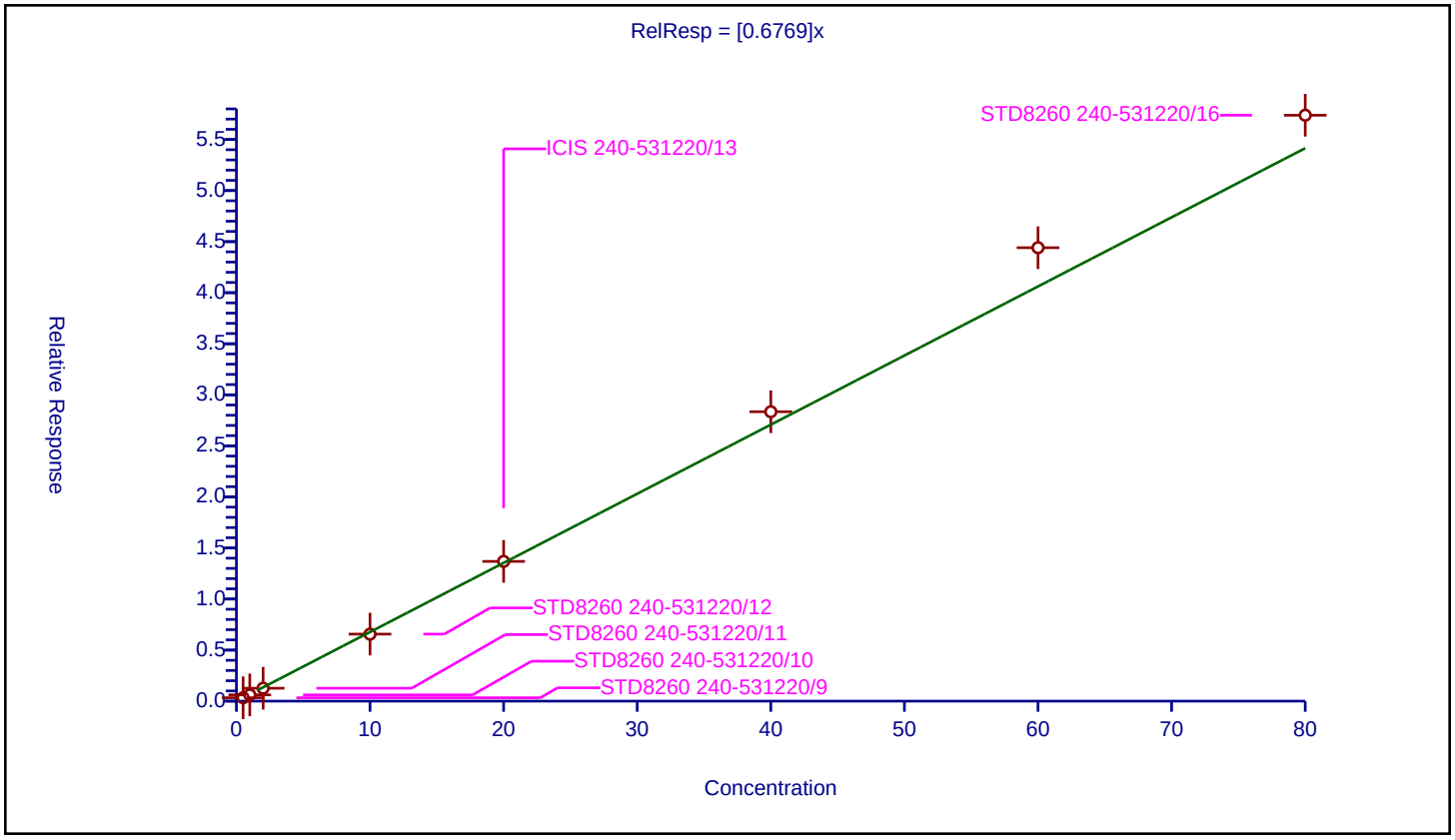
Curve Coefficients

Intercept:	0
Slope:	0.6769

Error Coefficients

Standard Error:	1550000
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 240-531220/9	0.5	0.33276	20.0	940017.0	0.66552	Y
2	STD8260 240-531220/10	1.0	0.611399	20.0	1011549.0	0.611399	Y
3	STD8260 240-531220/11	2.0	1.263353	20.0	983573.0	0.631677	Y
4	STD8260 240-531220/12	10.0	6.563601	20.0	1018383.0	0.65636	Y
5	ICIS 240-531220/13	20.0	13.683701	20.0	1012688.0	0.684185	Y
6	STD8260 240-531220/14	40.0	28.343133	20.0	1043186.0	0.708578	Y
7	STD8260 240-531220/15	60.0	44.405782	20.0	1027981.0	0.740096	Y
8	STD8260 240-531220/16	80.0	57.378929	20.0	1035752.0	0.717237	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

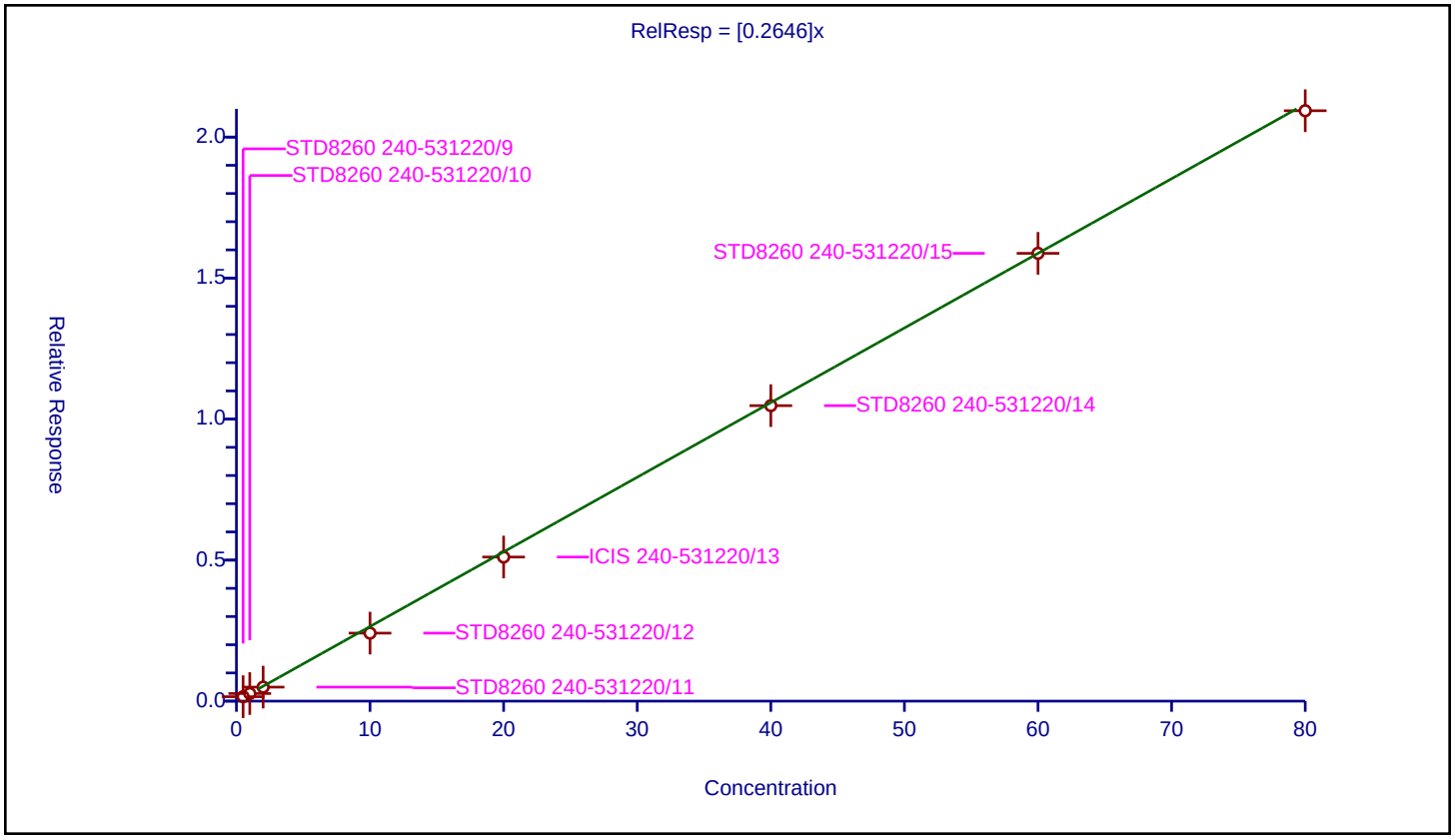
Curve Coefficients

Intercept:	0
Slope:	0.2646

Error Coefficients

Standard Error:	564000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.157082	20.0	940017.0	0.314165	Y
2	STD8260 240-531220/10	1.0	0.269448	20.0	1011549.0	0.269448	Y
3	STD8260 240-531220/11	2.0	0.497228	20.0	983573.0	0.248614	Y
4	STD8260 240-531220/12	10.0	2.411391	20.0	1018383.0	0.241139	Y
5	ICIS 240-531220/13	20.0	5.109372	20.0	1012688.0	0.255469	Y
6	STD8260 240-531220/14	40.0	10.477211	20.0	1043186.0	0.26193	Y
7	STD8260 240-531220/15	60.0	15.878795	20.0	1027981.0	0.264647	Y
8	STD8260 240-531220/16	80.0	20.934934	20.0	1035752.0	0.261687	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

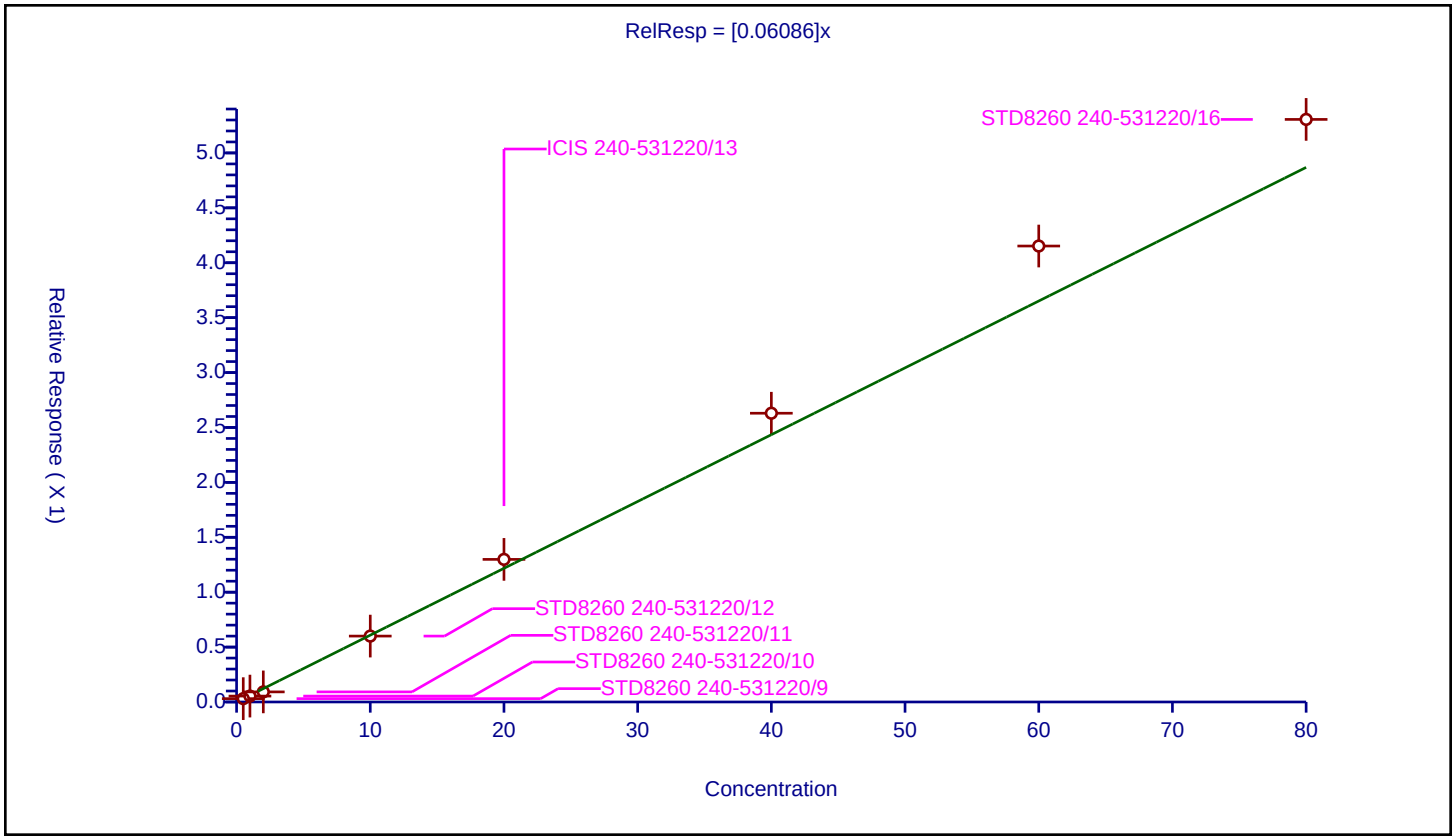
Curve Coefficients

Intercept:	0
Slope:	0.06086

Error Coefficients

Standard Error:	144000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.030425	20.0	940017.0	0.06085	Y
2	STD8260 240-531220/10	1.0	0.053838	20.0	1011549.0	0.053838	Y
3	STD8260 240-531220/11	2.0	0.091849	20.0	983573.0	0.045924	Y
4	STD8260 240-531220/12	10.0	0.600305	20.0	1018383.0	0.06003	Y
5	ICIS 240-531220/13	20.0	1.298682	20.0	1012688.0	0.064934	Y
6	STD8260 240-531220/14	40.0	2.629713	20.0	1043186.0	0.065743	Y
7	STD8260 240-531220/15	60.0	4.152295	20.0	1027981.0	0.069205	Y
8	STD8260 240-531220/16	80.0	5.305324	20.0	1035752.0	0.066317	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

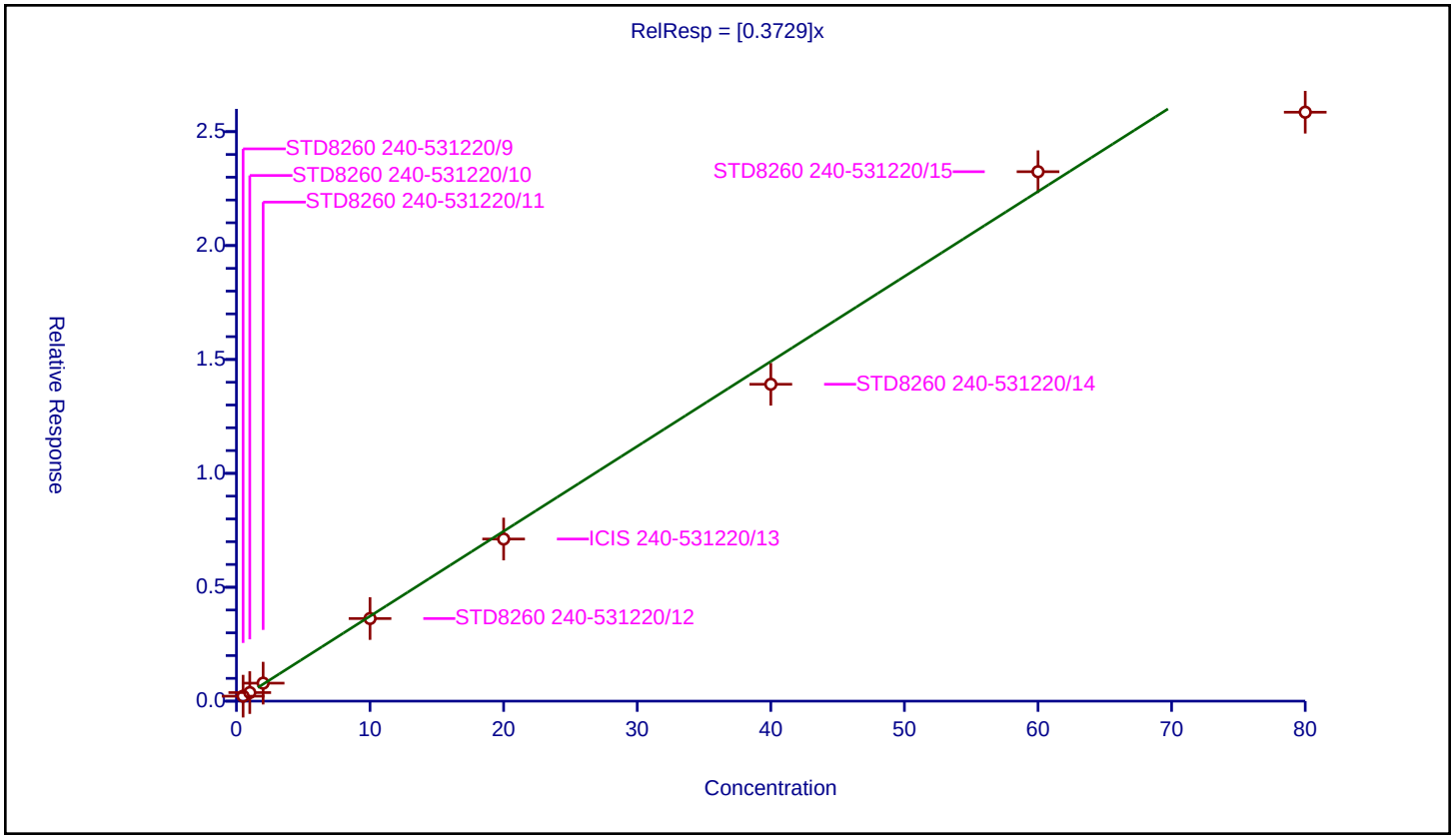
Curve Coefficients

Intercept:	0
Slope:	0.3729

Error Coefficients

Standard Error:	748000
Relative Standard Error:	9.1
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.217719	20.0	940017.0	0.435439	Y
2	STD8260 240-531220/10	1.0	0.375741	20.0	1011549.0	0.375741	Y
3	STD8260 240-531220/11	2.0	0.789896	20.0	983573.0	0.394948	Y
4	STD8260 240-531220/12	10.0	3.626514	20.0	1018383.0	0.362651	Y
5	ICIS 240-531220/13	20.0	7.11694	20.0	1012688.0	0.355847	Y
6	STD8260 240-531220/14	40.0	13.911134	20.0	1043186.0	0.347778	Y
7	STD8260 240-531220/15	60.0	23.24257	20.0	1027981.0	0.387376	Y
8	STD8260 240-531220/16	80.0	25.855282	20.0	1035752.0	0.323191	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

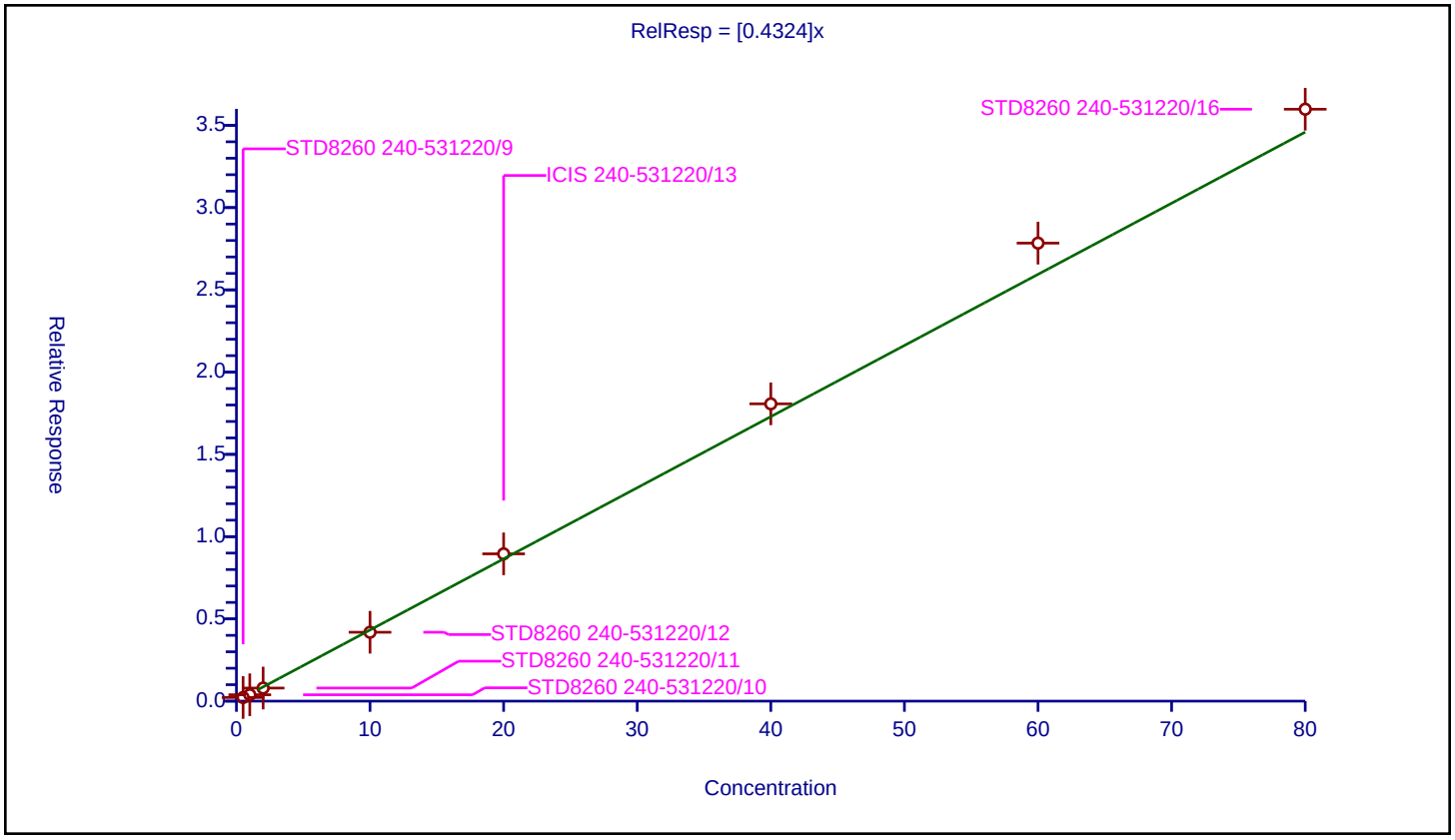
Curve Coefficients

Intercept:	0
Slope:	0.4324

Error Coefficients

Standard Error:	975000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.220443	20.0	940017.0	0.440886	Y
2	STD8260 240-531220/10	1.0	0.388513	20.0	1011549.0	0.388513	Y
3	STD8260 240-531220/11	2.0	0.795203	20.0	983573.0	0.397601	Y
4	STD8260 240-531220/12	10.0	4.187678	20.0	1018383.0	0.418768	Y
5	ICIS 240-531220/13	20.0	8.953656	20.0	1012688.0	0.447683	Y
6	STD8260 240-531220/14	40.0	18.071159	20.0	1043186.0	0.451779	Y
7	STD8260 240-531220/15	60.0	27.840515	20.0	1027981.0	0.464009	Y
8	STD8260 240-531220/16	80.0	35.980795	20.0	1035752.0	0.44976	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

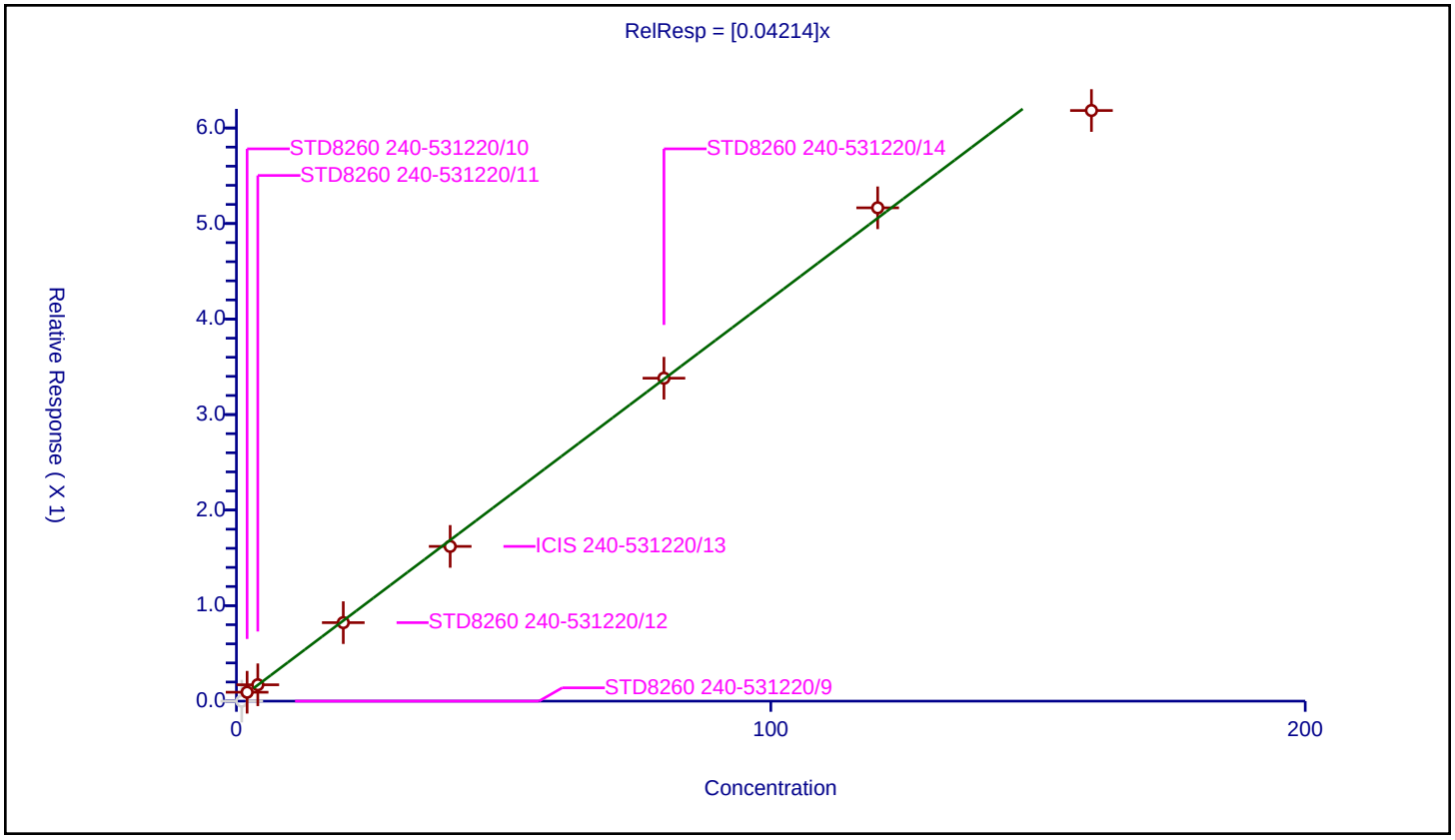
Curve Coefficients

Intercept:	0
Slope:	0.04214

Error Coefficients

Standard Error:	188000
Relative Standard Error:	5.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	1.0	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	2.0	0.093204	20.0	1011549.0	0.046602	Y
3	STD8260 240-531220/11	4.0	0.171375	20.0	983573.0	0.042844	Y
4	STD8260 240-531220/12	20.0	0.821695	20.0	1018383.0	0.041085	Y
5	ICIS 240-531220/13	40.0	1.619847	20.0	1012688.0	0.040496	Y
6	STD8260 240-531220/14	80.0	3.380874	20.0	1043186.0	0.042261	Y
7	STD8260 240-531220/15	120.0	5.164473	20.0	1027981.0	0.043037	Y
8	STD8260 240-531220/16	160.0	6.182986	20.0	1035752.0	0.038644	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

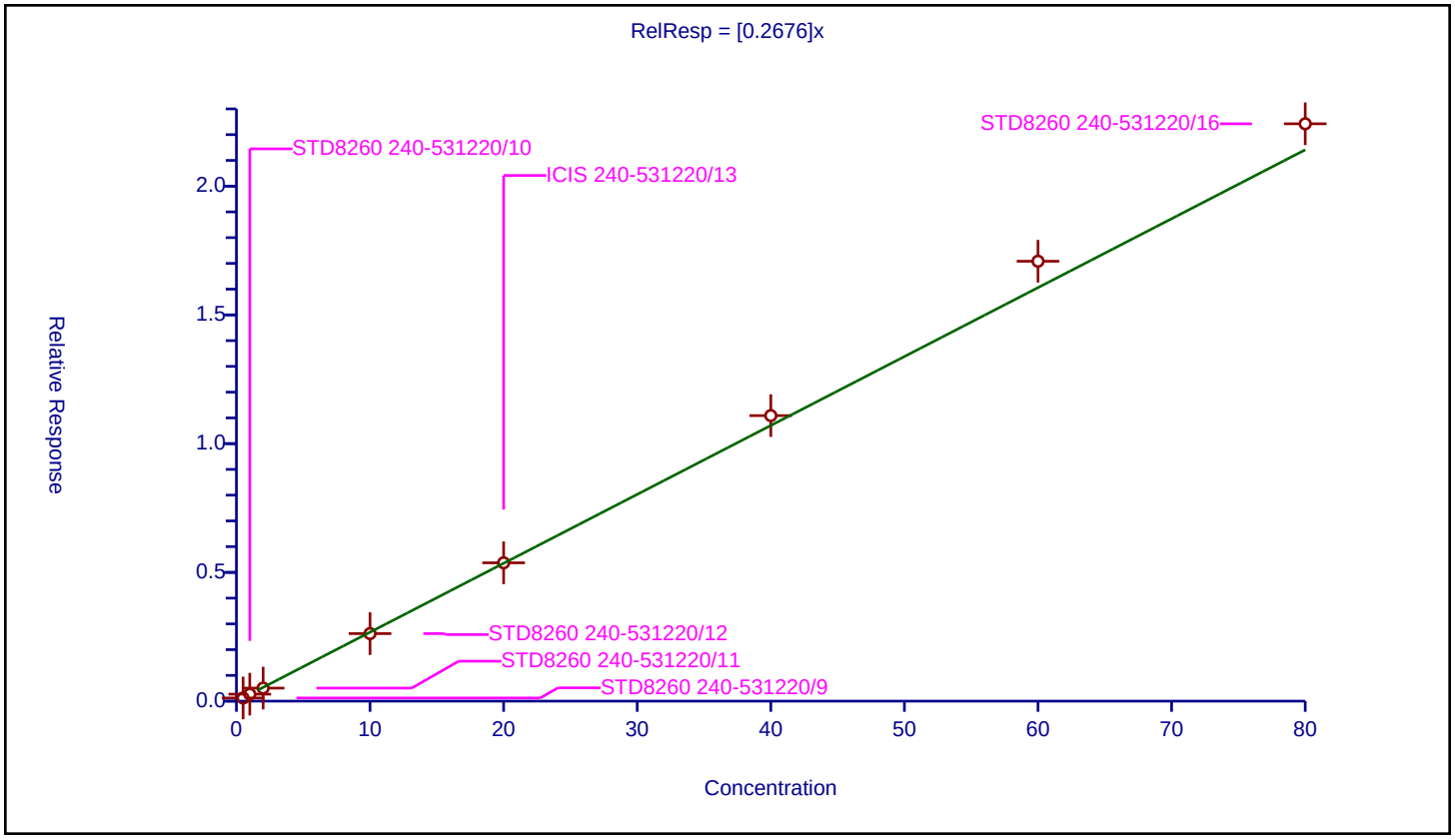
Curve Coefficients

Intercept:	0
Slope:	0.2676

Error Coefficients

Standard Error:	603000
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 240-531220/9	0.5	0.122232	20.0	940017.0	0.244464	Y
2	STD8260 240-531220/10	1.0	0.270239	20.0	1011549.0	0.270239	Y
3	STD8260 240-531220/11	2.0	0.506622	20.0	983573.0	0.253311	Y
4	STD8260 240-531220/12	10.0	2.622707	20.0	1018383.0	0.262271	Y
5	ICIS 240-531220/13	20.0	5.371704	20.0	1012688.0	0.268585	Y
6	STD8260 240-531220/14	40.0	11.088243	20.0	1043186.0	0.277206	Y
7	STD8260 240-531220/15	60.0	17.084051	20.0	1027981.0	0.284734	Y
8	STD8260 240-531220/16	80.0	22.421873	20.0	1035752.0	0.280273	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

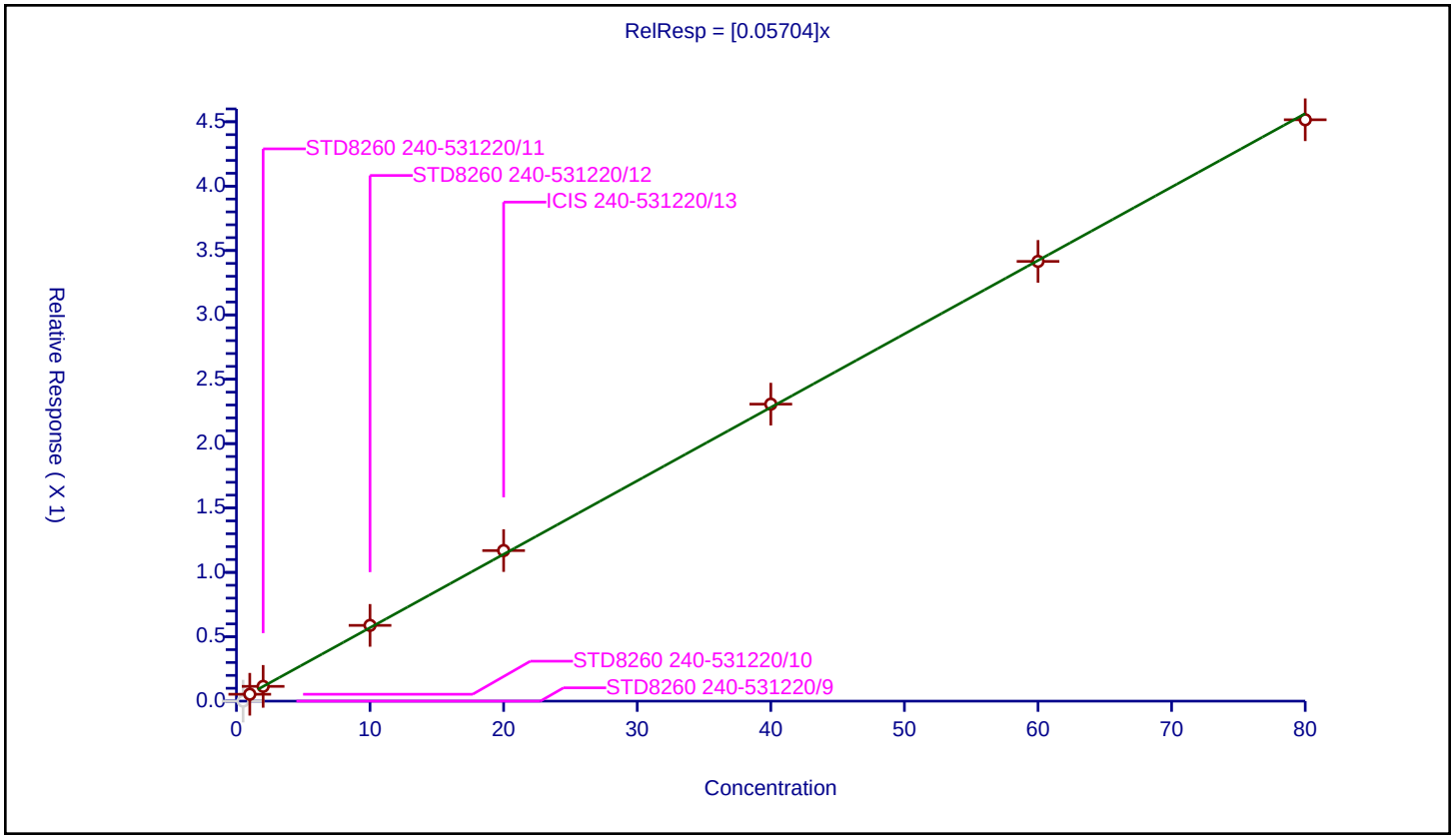
Curve Coefficients

Intercept:	0
Slope:	0.05704

Error Coefficients

Standard Error:	132000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	1.0	0.053561	20.0	1011549.0	0.053561	Y
3	STD8260 240-531220/11	2.0	0.114725	20.0	983573.0	0.057362	Y
4	STD8260 240-531220/12	10.0	0.588502	20.0	1018383.0	0.05885	Y
5	ICIS 240-531220/13	20.0	1.16958	20.0	1012688.0	0.058479	Y
6	STD8260 240-531220/14	40.0	2.306971	20.0	1043186.0	0.057674	Y
7	STD8260 240-531220/15	60.0	3.415511	20.0	1027981.0	0.056925	Y
8	STD8260 240-531220/16	80.0	4.515598	20.0	1035752.0	0.056445	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

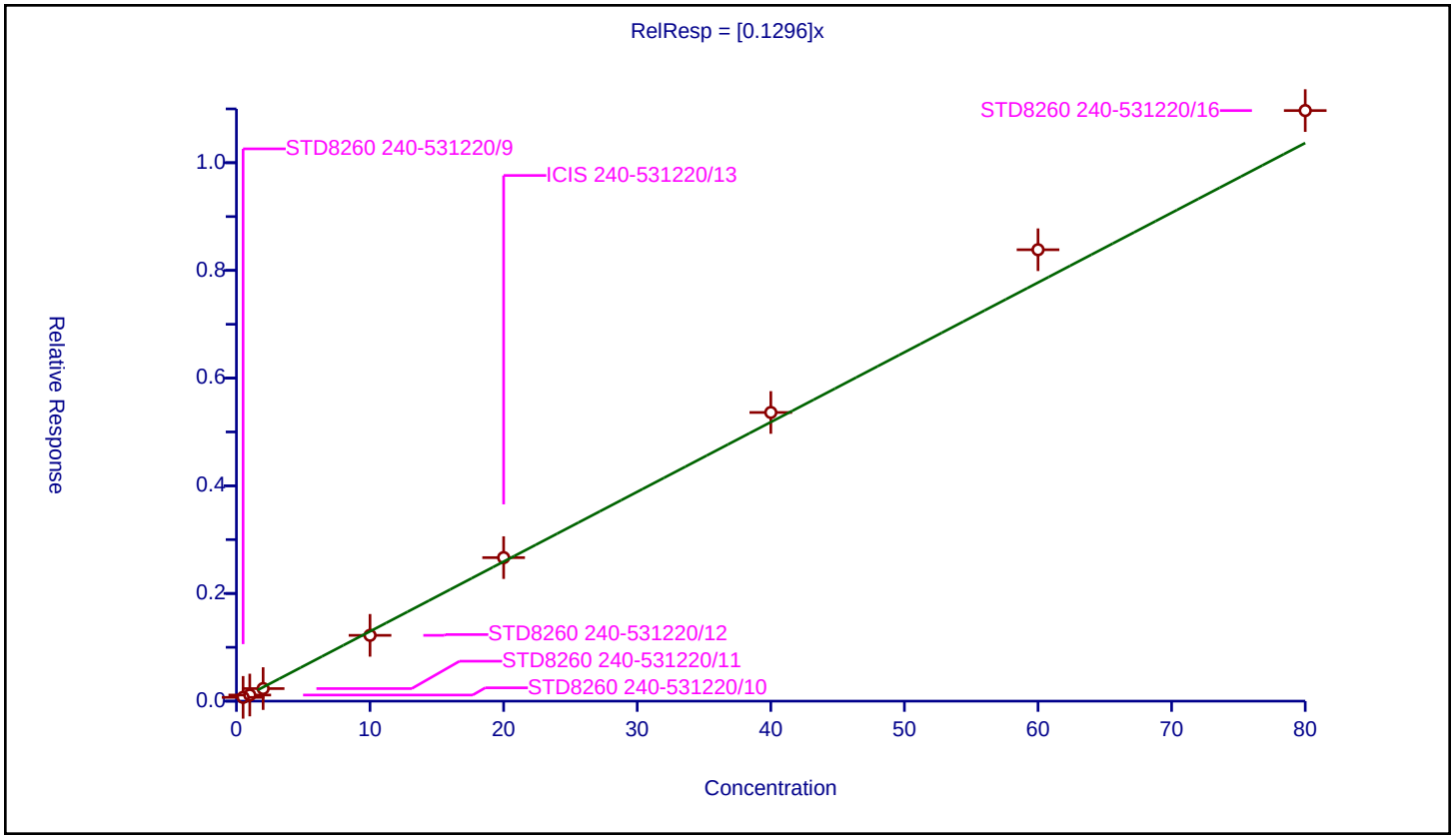
Curve Coefficients

Intercept:	0
Slope:	0.1296

Error Coefficients

Standard Error:	295000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.069935	20.0	940017.0	0.13987	Y
2	STD8260 240-531220/10	1.0	0.113647	20.0	1011549.0	0.113647	Y
3	STD8260 240-531220/11	2.0	0.233374	20.0	983573.0	0.116687	Y
4	STD8260 240-531220/12	10.0	1.22231	20.0	1018383.0	0.122231	Y
5	ICIS 240-531220/13	20.0	2.665836	20.0	1012688.0	0.133292	Y
6	STD8260 240-531220/14	40.0	5.361824	20.0	1043186.0	0.134046	Y
7	STD8260 240-531220/15	60.0	8.384299	20.0	1027981.0	0.139738	Y
8	STD8260 240-531220/16	80.0	10.968649	20.0	1035752.0	0.137108	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

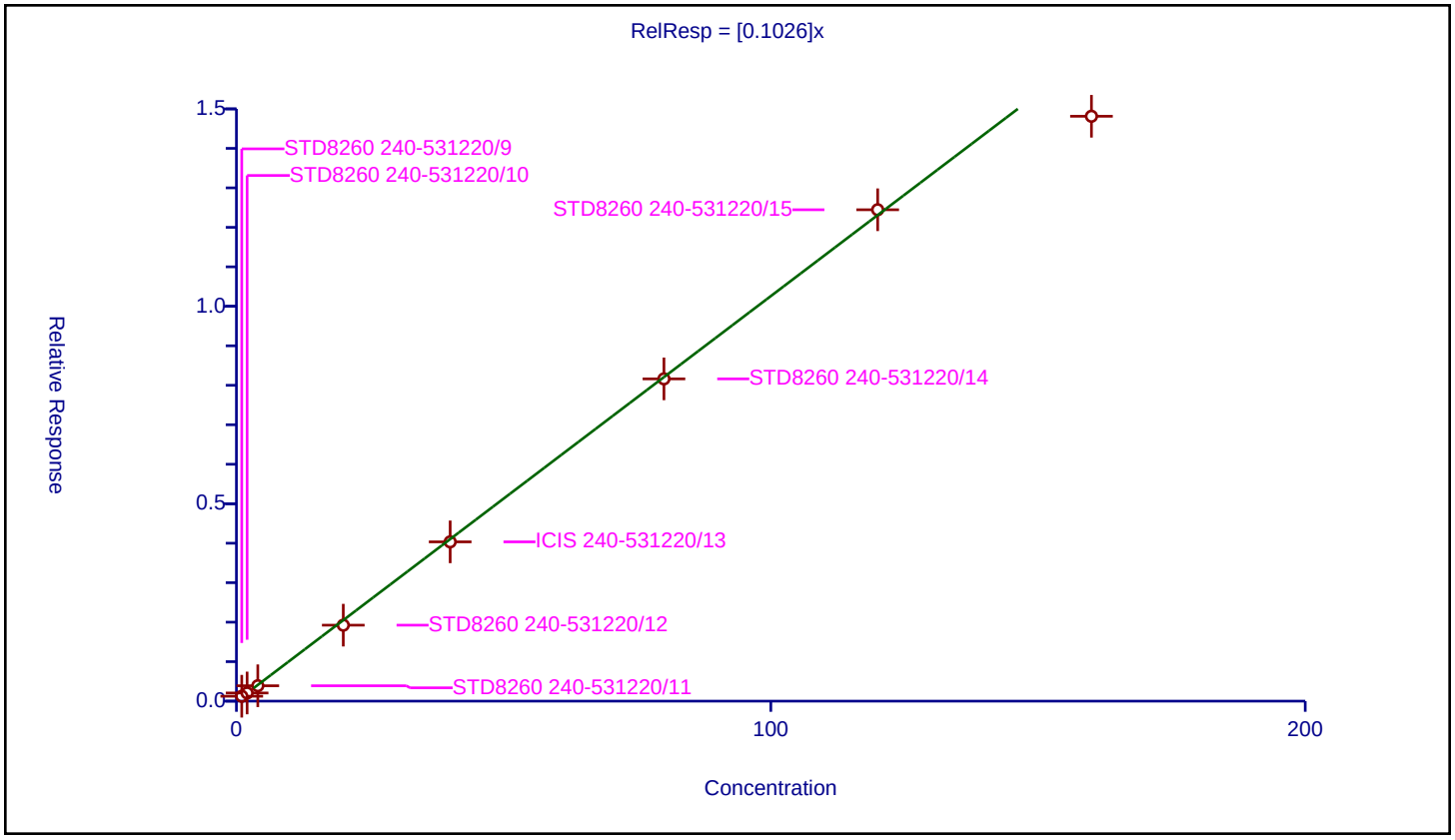
Curve Coefficients

Intercept:	0
Slope:	0.1026

Error Coefficients

Standard Error:	419000
Relative Standard Error:	9.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	1.0	0.124636	20.0	940017.0	0.124636	Y
2	STD8260 240-531220/10	2.0	0.206614	20.0	1011549.0	0.103307	Y
3	STD8260 240-531220/11	4.0	0.389478	20.0	983573.0	0.097369	Y
4	STD8260 240-531220/12	20.0	1.923952	20.0	1018383.0	0.096198	Y
5	ICIS 240-531220/13	40.0	4.033918	20.0	1012688.0	0.100848	Y
6	STD8260 240-531220/14	80.0	8.162169	20.0	1043186.0	0.102027	Y
7	STD8260 240-531220/15	120.0	12.445561	20.0	1027981.0	0.103713	Y
8	STD8260 240-531220/16	160.0	14.812928	20.0	1035752.0	0.092581	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

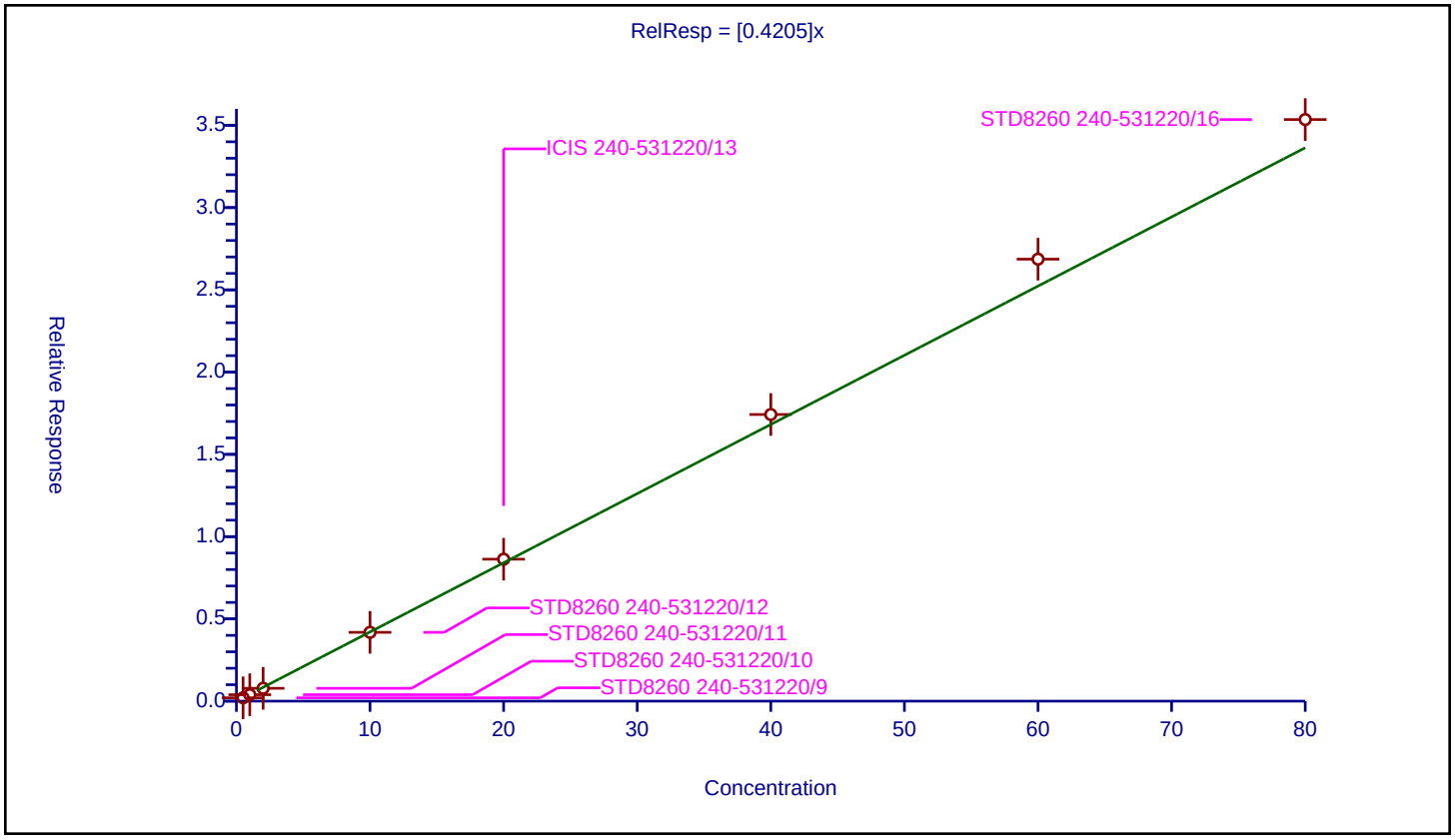
Curve Coefficients

Intercept:	0
Slope:	0.4205

Error Coefficients

Standard Error:	950000
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 240-531220/9	0.5	0.203401	20.0	940017.0	0.406801	Y
2	STD8260 240-531220/10	1.0	0.391143	20.0	1011549.0	0.391143	Y
3	STD8260 240-531220/11	2.0	0.781803	20.0	983573.0	0.390901	Y
4	STD8260 240-531220/12	10.0	4.18214	20.0	1018383.0	0.418214	Y
5	ICIS 240-531220/13	20.0	8.628186	20.0	1012688.0	0.431409	Y
6	STD8260 240-531220/14	40.0	17.423336	20.0	1043186.0	0.435583	Y
7	STD8260 240-531220/15	60.0	26.865769	20.0	1027981.0	0.447763	Y
8	STD8260 240-531220/16	80.0	35.353193	20.0	1035752.0	0.441915	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

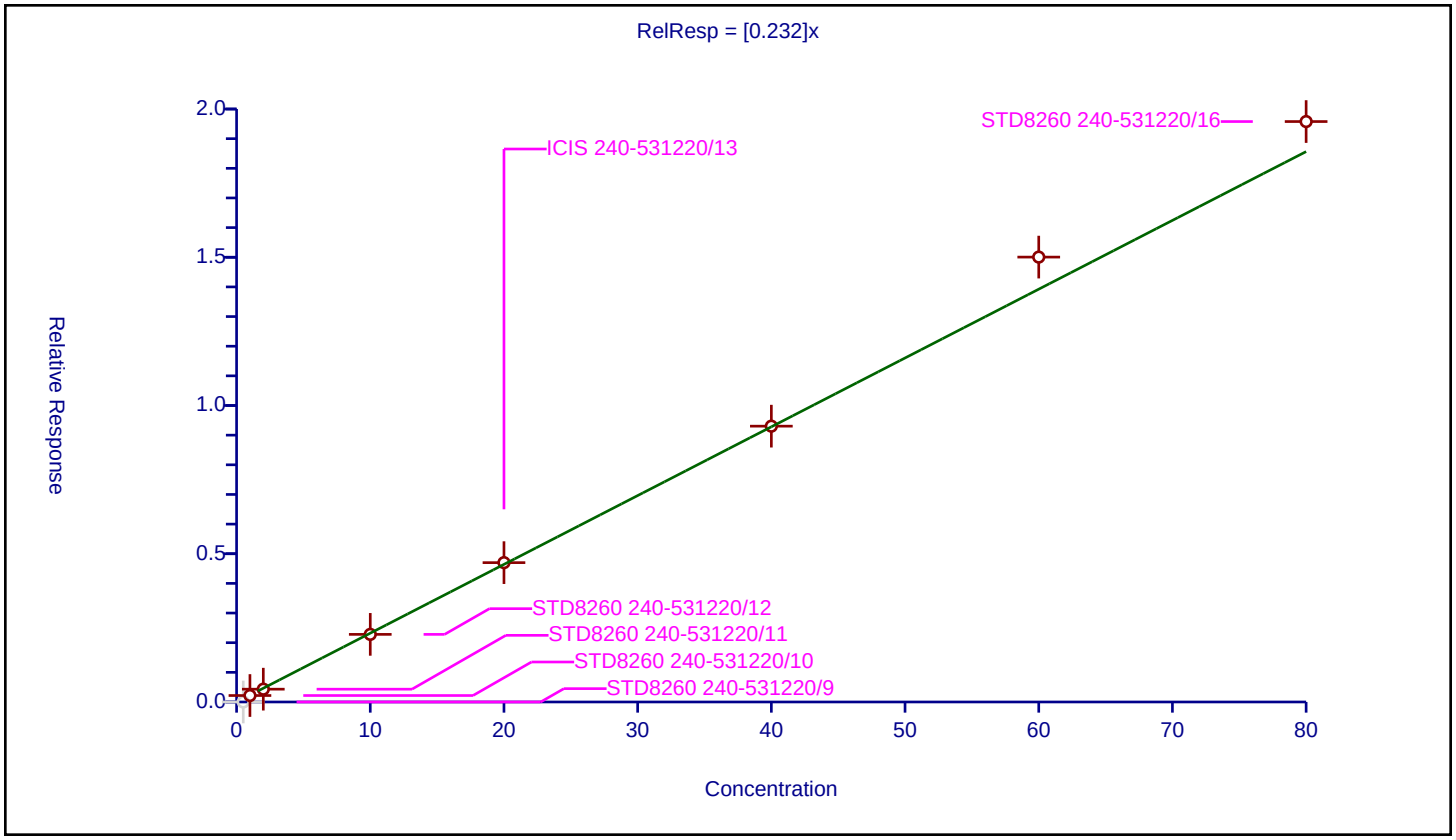
Curve Coefficients

Intercept:	0
Slope:	0.232

Error Coefficients

Standard Error:	567000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	1.0	0.217686	20.0	1011549.0	0.217686	Y
3	STD8260 240-531220/11	2.0	0.432464	20.0	983573.0	0.216232	Y
4	STD8260 240-531220/12	10.0	2.280164	20.0	1018383.0	0.228016	Y
5	ICIS 240-531220/13	20.0	4.700204	20.0	1012688.0	0.23501	Y
6	STD8260 240-531220/14	40.0	9.303096	20.0	1043186.0	0.232577	Y
7	STD8260 240-531220/15	60.0	15.005842	20.0	1027981.0	0.250097	Y
8	STD8260 240-531220/16	80.0	19.577061	20.0	1035752.0	0.244713	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

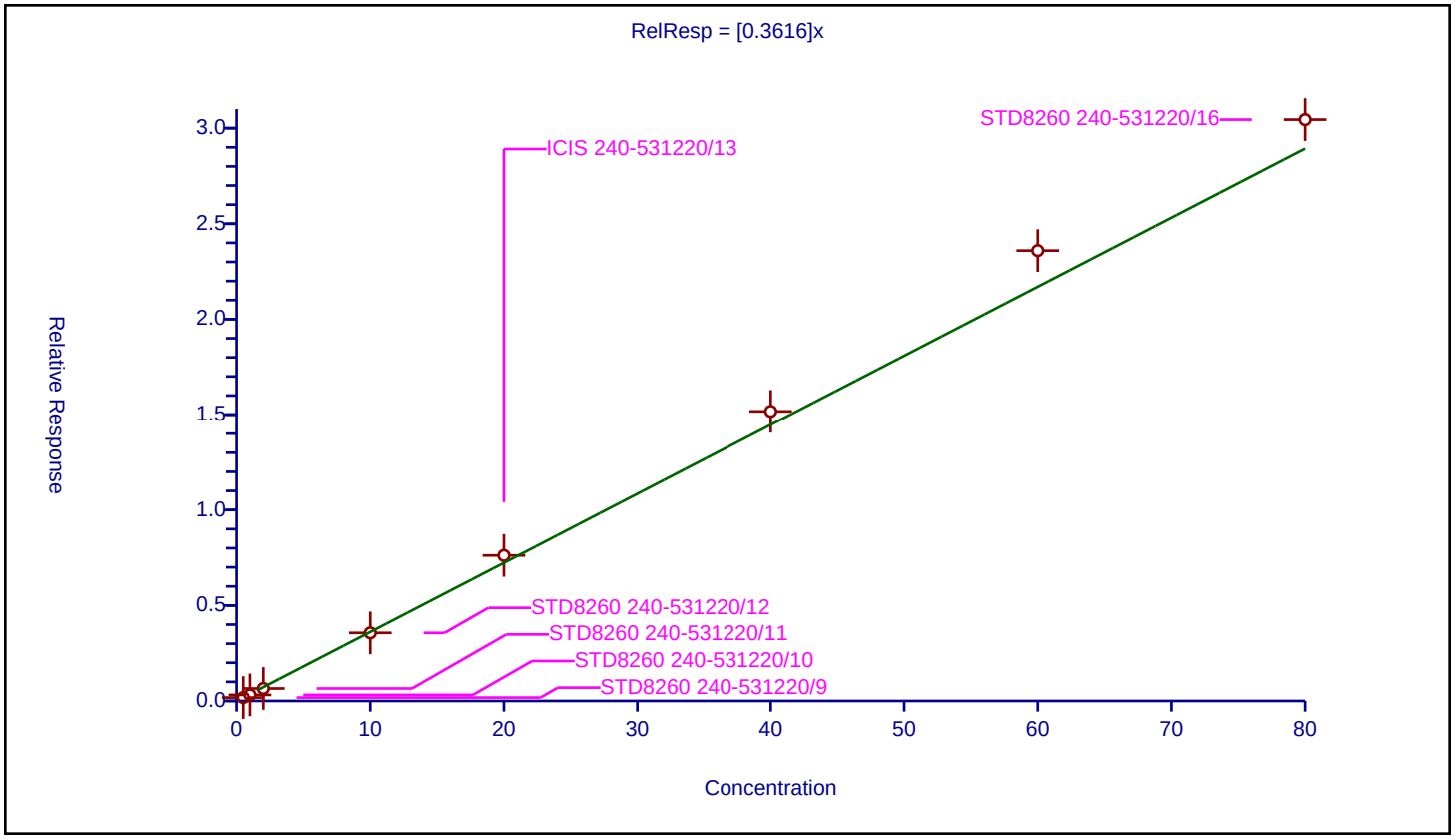
Curve Coefficients

Intercept:	0
Slope:	0.3616

Error Coefficients

Standard Error:	825000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.178273	20.0	940017.0	0.356547	Y
2	STD8260 240-531220/10	1.0	0.319055	20.0	1011549.0	0.319055	Y
3	STD8260 240-531220/11	2.0	0.653698	20.0	983573.0	0.326849	Y
4	STD8260 240-531220/12	10.0	3.566831	20.0	1018383.0	0.356683	Y
5	ICIS 240-531220/13	20.0	7.620768	20.0	1012688.0	0.381038	Y
6	STD8260 240-531220/14	40.0	15.167957	20.0	1043186.0	0.379199	Y
7	STD8260 240-531220/15	60.0	23.593841	20.0	1027981.0	0.393231	Y
8	STD8260 240-531220/16	80.0	30.447791	20.0	1035752.0	0.380597	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

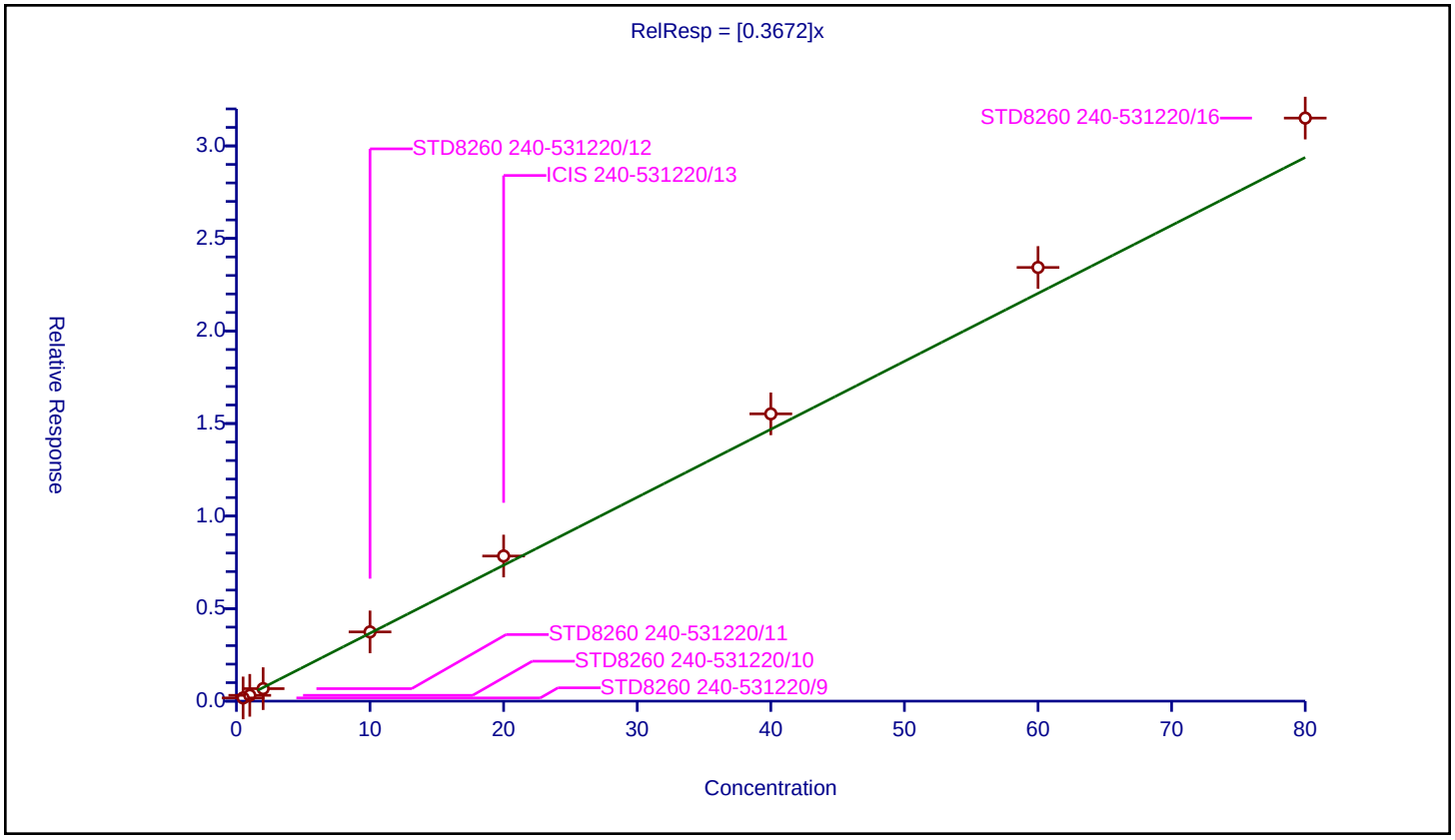
Curve Coefficients

Intercept:	0
Slope:	0.3672

Error Coefficients

Standard Error:	842000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.173699	20.0	940017.0	0.347398	Y
2	STD8260 240-531220/10	1.0	0.313836	20.0	1011549.0	0.313836	Y
3	STD8260 240-531220/11	2.0	0.676005	20.0	983573.0	0.338002	Y
4	STD8260 240-531220/12	10.0	3.740322	20.0	1018383.0	0.374032	Y
5	ICIS 240-531220/13	20.0	7.840539	20.0	1012688.0	0.392027	Y
6	STD8260 240-531220/14	40.0	15.522889	20.0	1043186.0	0.388072	Y
7	STD8260 240-531220/15	60.0	23.431503	20.0	1027981.0	0.390525	Y
8	STD8260 240-531220/16	80.0	31.503507	20.0	1035752.0	0.393794	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

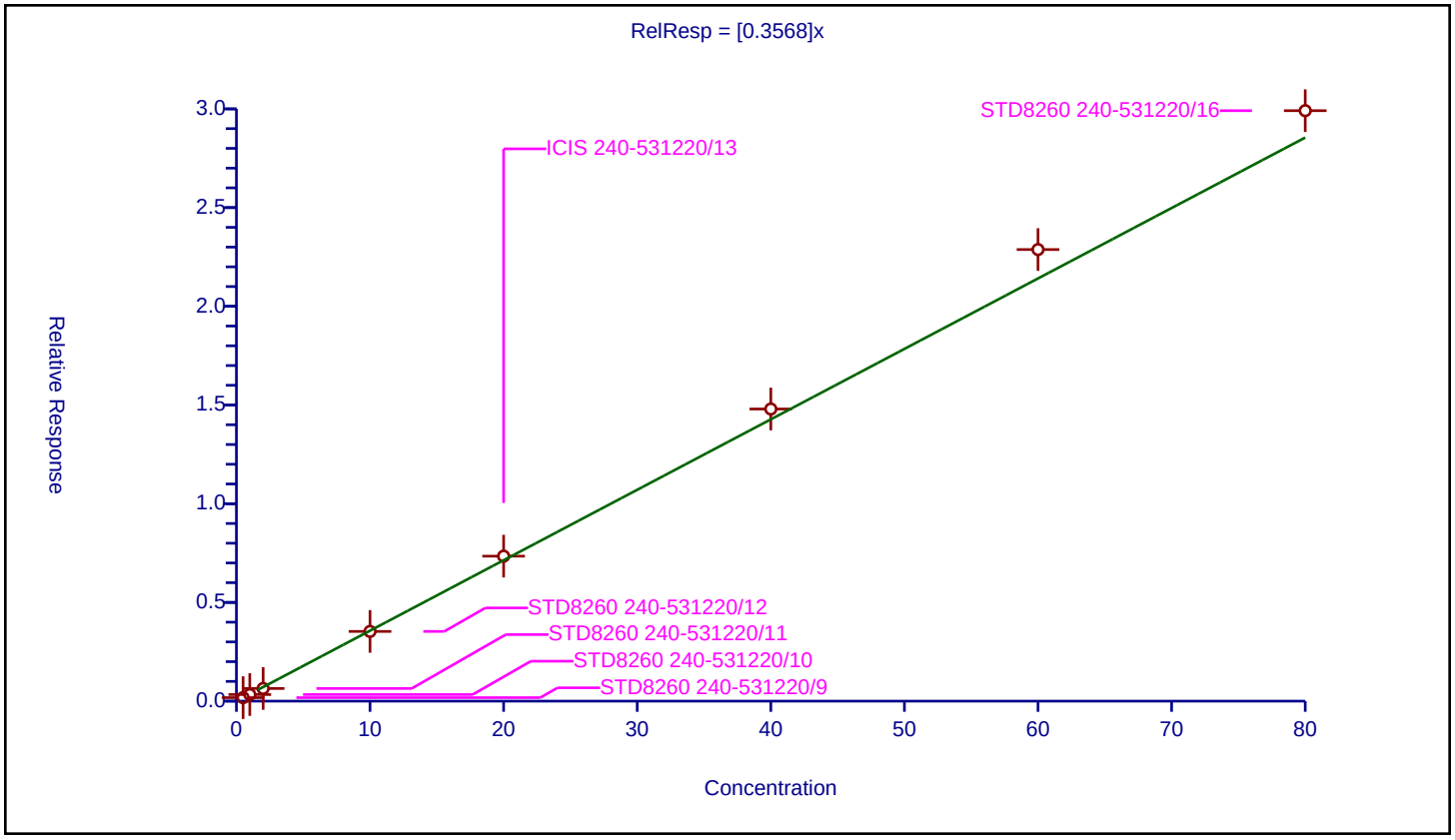
Curve Coefficients

Intercept:	0
Slope:	0.3568

Error Coefficients

Standard Error:	806000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.177082	20.0	940017.0	0.354164	Y
2	STD8260 240-531220/10	1.0	0.334556	20.0	1011549.0	0.334556	Y
3	STD8260 240-531220/11	2.0	0.641193	20.0	983573.0	0.320596	Y
4	STD8260 240-531220/12	10.0	3.531225	20.0	1018383.0	0.353123	Y
5	ICIS 240-531220/13	20.0	7.344256	20.0	1012688.0	0.367213	Y
6	STD8260 240-531220/14	40.0	14.797361	20.0	1043186.0	0.369934	Y
7	STD8260 240-531220/15	60.0	22.875248	20.0	1027981.0	0.381254	Y
8	STD8260 240-531220/16	80.0	29.909824	20.0	1035752.0	0.373873	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

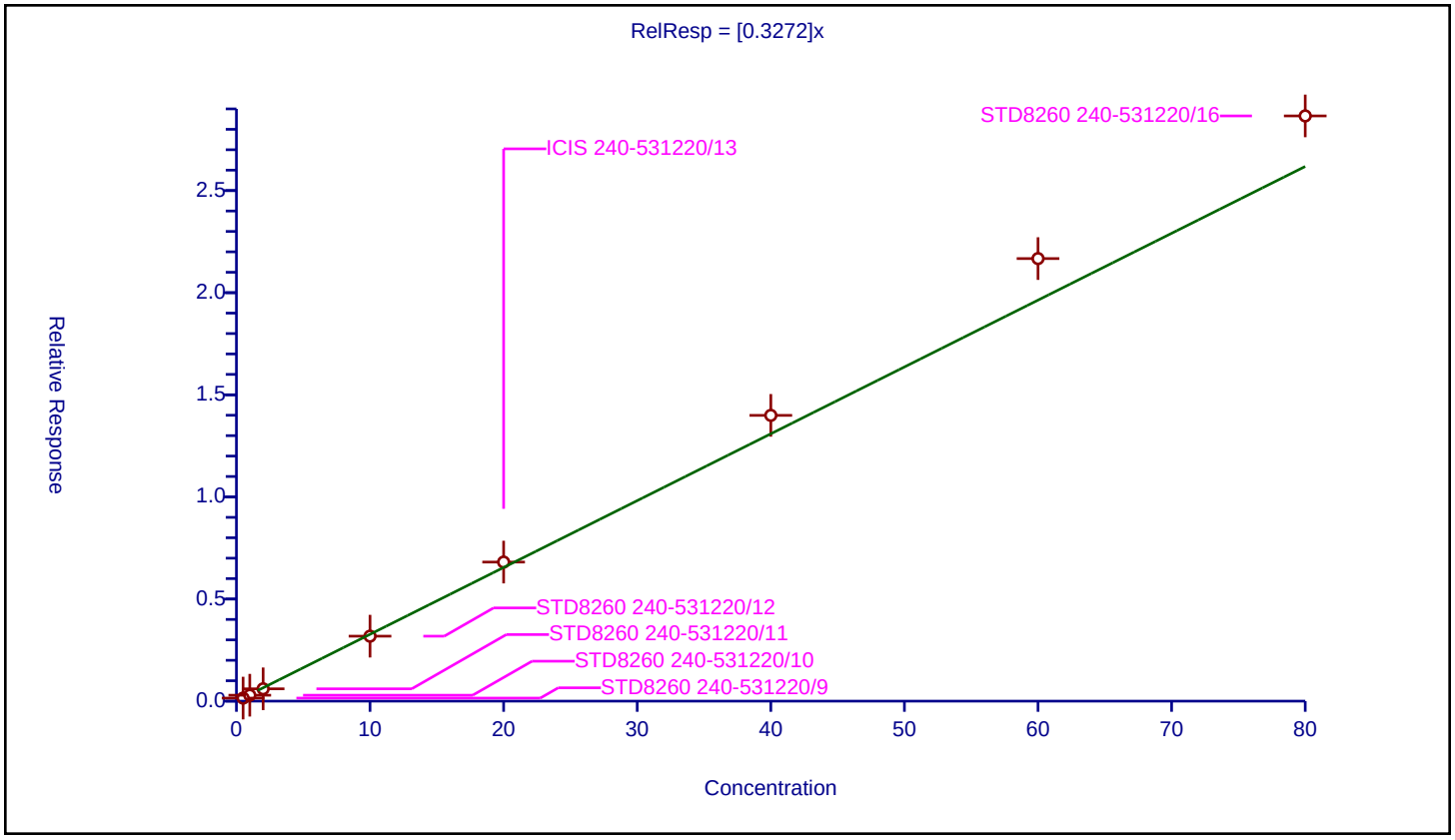
Curve Coefficients

Intercept:	0
Slope:	0.3272

Error Coefficients

Standard Error:	767000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.149104	20.0	940017.0	0.298207	Y
2	STD8260 240-531220/10	1.0	0.29003	20.0	1011549.0	0.29003	Y
3	STD8260 240-531220/11	2.0	0.603778	20.0	983573.0	0.301889	Y
4	STD8260 240-531220/12	10.0	3.182005	20.0	1018383.0	0.318201	Y
5	ICIS 240-531220/13	20.0	6.809481	20.0	1012688.0	0.340474	Y
6	STD8260 240-531220/14	40.0	13.992577	20.0	1043186.0	0.349814	Y
7	STD8260 240-531220/15	60.0	21.670984	20.0	1027981.0	0.361183	Y
8	STD8260 240-531220/16	80.0	28.655779	20.0	1035752.0	0.358197	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

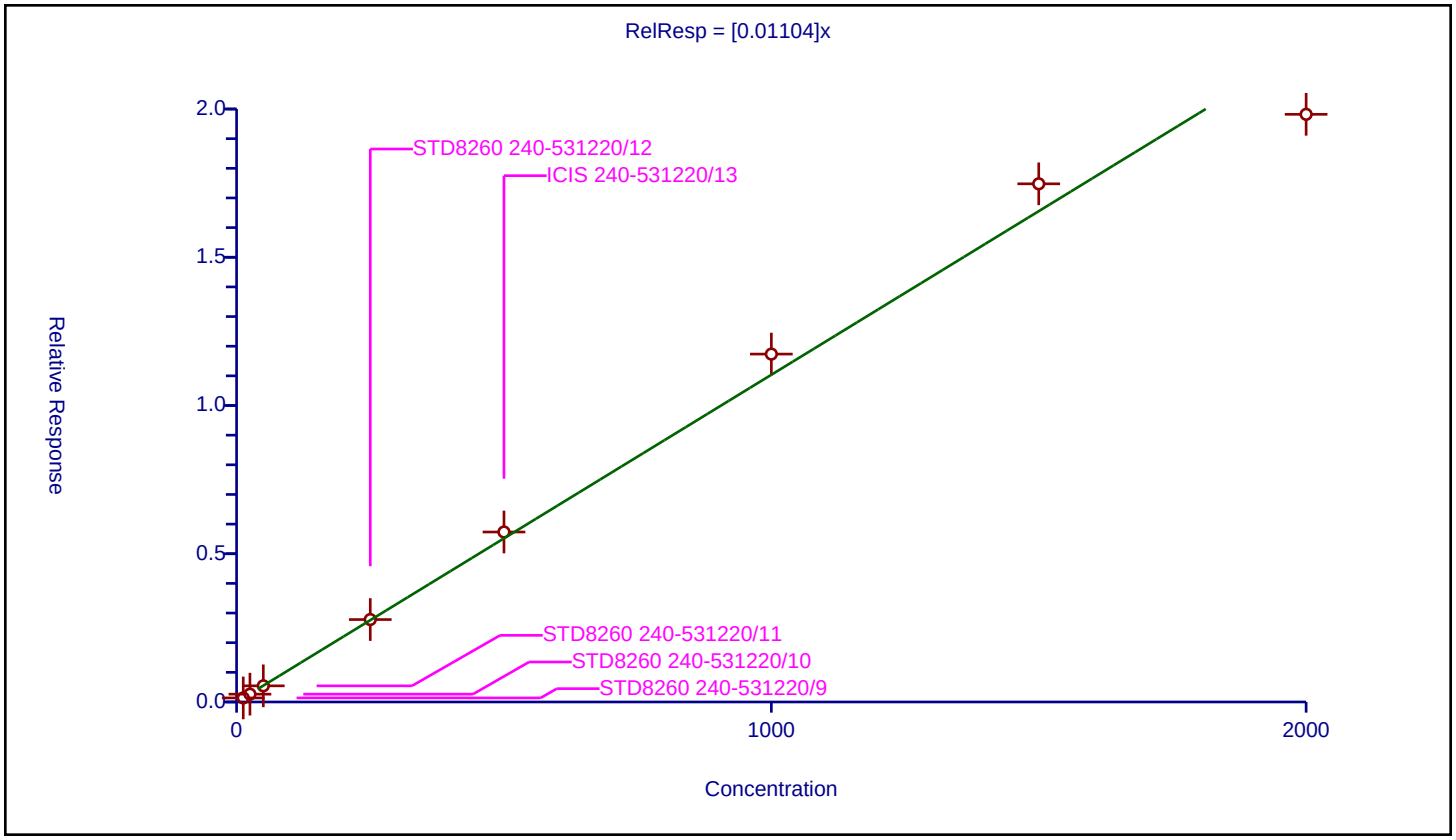
Curve Coefficients

Intercept:	0
Slope:	0.01104

Error Coefficients

Standard Error:	578000
Relative Standard Error:	5.5
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	12.5	0.136827	20.0	940017.0	0.010946	Y
2	STD8260 240-531220/10	25.0	0.264288	20.0	1011549.0	0.010572	Y
3	STD8260 240-531220/11	50.0	0.544281	20.0	983573.0	0.010886	Y
4	STD8260 240-531220/12	250.0	2.780427	20.0	1018383.0	0.011122	Y
5	ICIS 240-531220/13	500.0	5.733671	20.0	1012688.0	0.011467	Y
6	STD8260 240-531220/14	1000.0	11.734149	20.0	1043186.0	0.011734	Y
7	STD8260 240-531220/15	1500.0	17.477483	20.0	1027981.0	0.011652	Y
8	STD8260 240-531220/16	2000.0	19.821115	20.0	1035752.0	0.009911	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

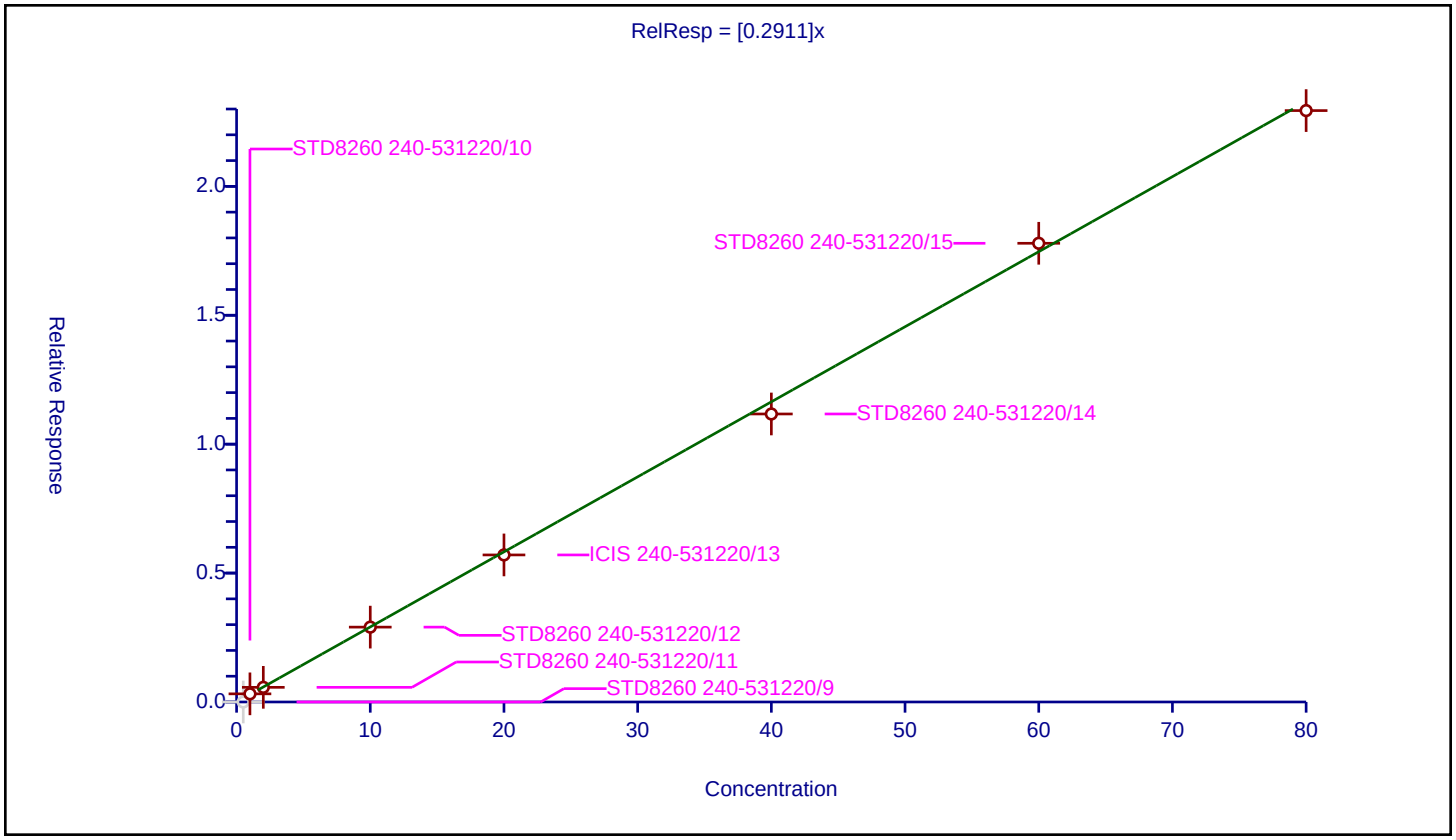
Curve Coefficients

Intercept:	0
Slope:	0.2911

Error Coefficients

Standard Error:	670000
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 240-531220/9	0.5	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	1.0	0.315477	20.0	1011549.0	0.315477	Y
3	STD8260 240-531220/11	2.0	0.568011	20.0	983573.0	0.284005	Y
4	STD8260 240-531220/12	10.0	2.903741	20.0	1018383.0	0.290374	Y
5	ICIS 240-531220/13	20.0	5.703751	20.0	1012688.0	0.285188	Y
6	STD8260 240-531220/14	40.0	11.171277	20.0	1043186.0	0.279282	Y
7	STD8260 240-531220/15	60.0	17.792566	20.0	1027981.0	0.296543	Y
8	STD8260 240-531220/16	80.0	22.938464	20.0	1035752.0	0.286731	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

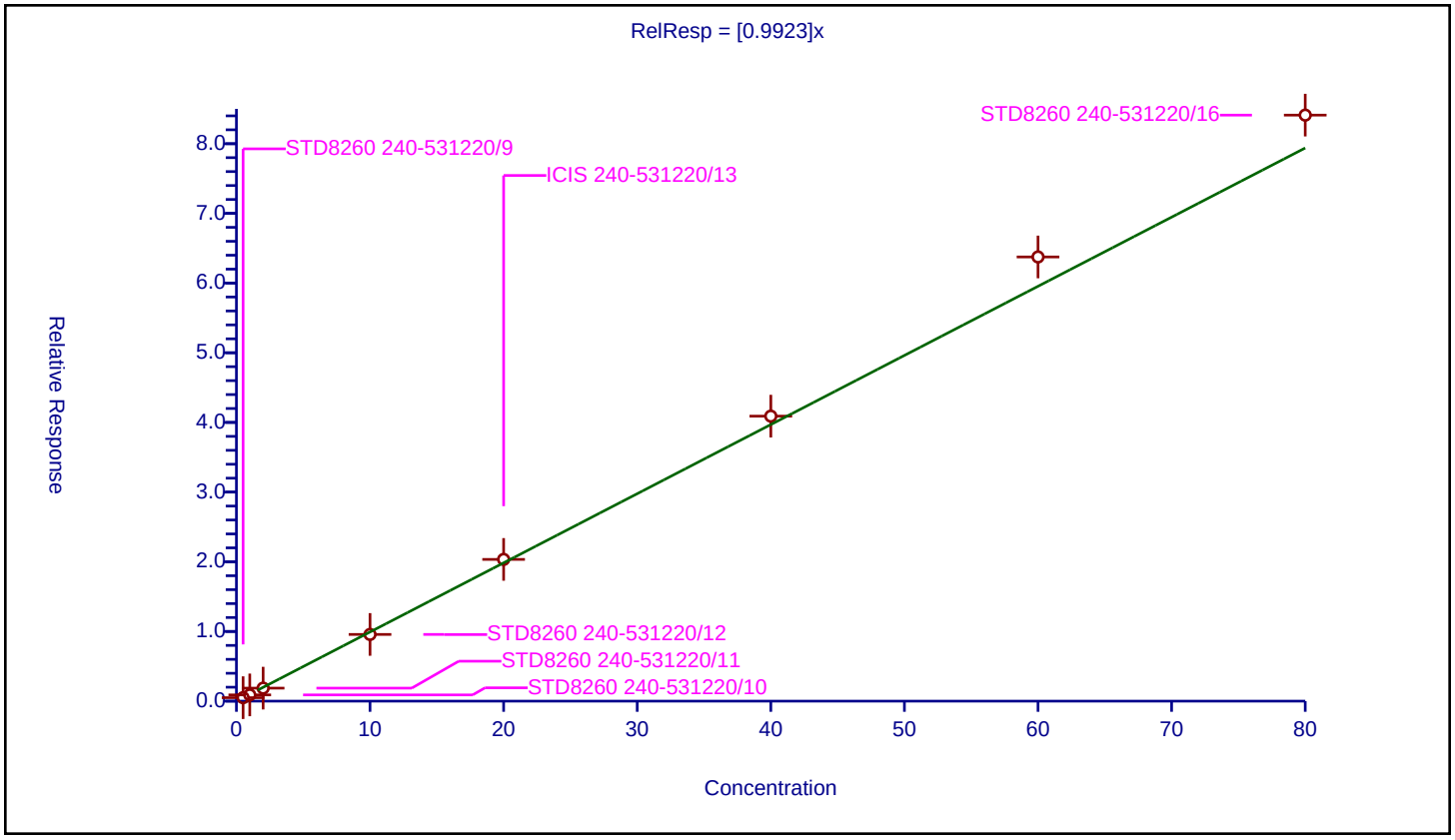
Curve Coefficients

Intercept:	0
Slope:	0.9923

Error Coefficients

Standard Error:	2250000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.499693	20.0	940017.0	0.999386	Y
2	STD8260 240-531220/10	1.0	0.895439	20.0	1011549.0	0.895439	Y
3	STD8260 240-531220/11	2.0	1.866176	20.0	983573.0	0.933088	Y
4	STD8260 240-531220/12	10.0	9.573412	20.0	1018383.0	0.957341	Y
5	ICIS 240-531220/13	20.0	20.341033	20.0	1012688.0	1.017052	Y
6	STD8260 240-531220/14	40.0	40.904767	20.0	1043186.0	1.022619	Y
7	STD8260 240-531220/15	60.0	63.750108	20.0	1027981.0	1.062502	Y
8	STD8260 240-531220/16	80.0	84.103975	20.0	1035752.0	1.0513	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

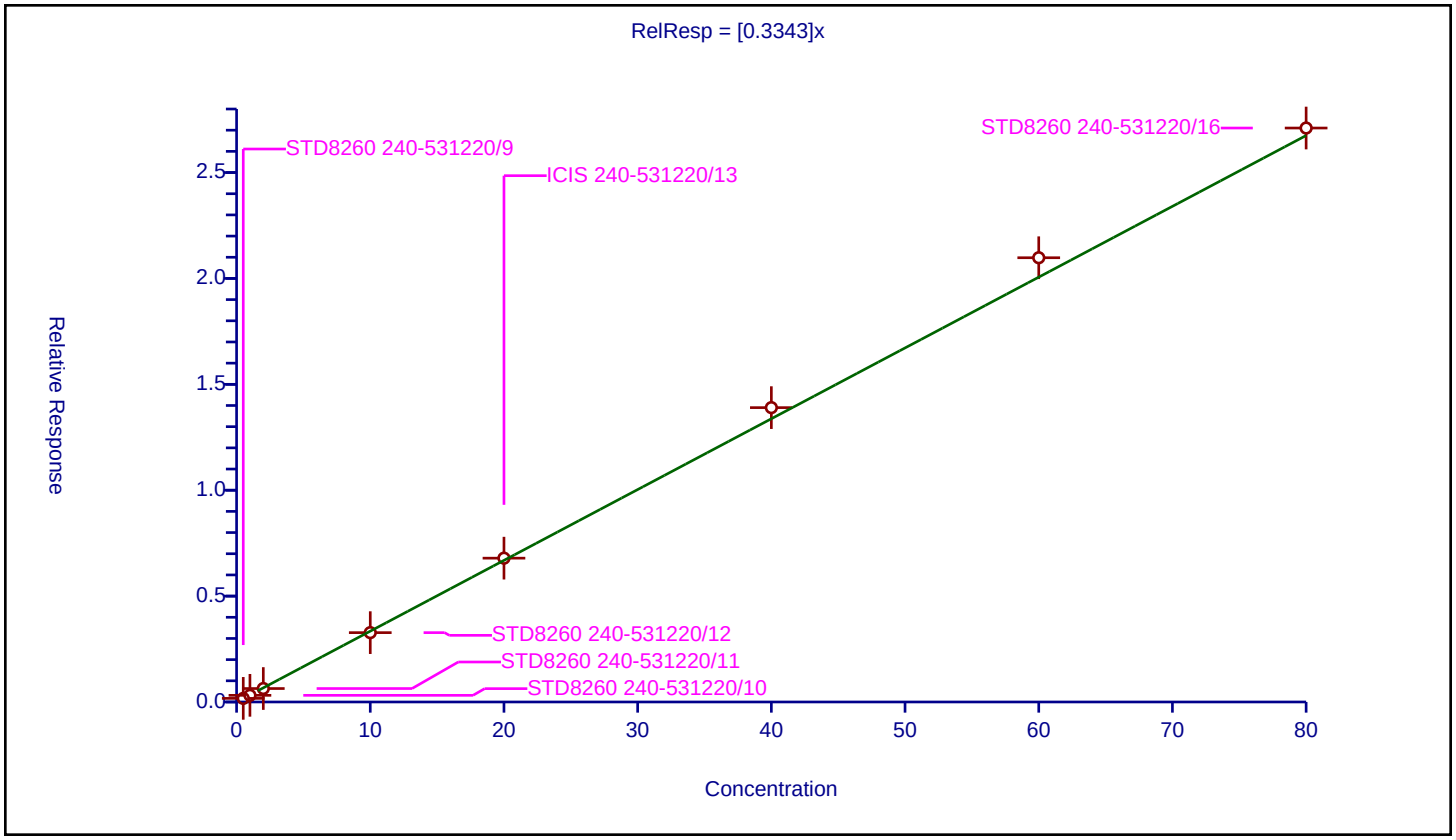
Curve Coefficients

Intercept:	0
Slope:	0.3343

Error Coefficients

Standard Error:	737000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.170103	20.0	940017.0	0.340207	Y
2	STD8260 240-531220/10	1.0	0.313816	20.0	1011549.0	0.313816	Y
3	STD8260 240-531220/11	2.0	0.635581	20.0	983573.0	0.31779	Y
4	STD8260 240-531220/12	10.0	3.275094	20.0	1018383.0	0.327509	Y
5	ICIS 240-531220/13	20.0	6.791213	20.0	1012688.0	0.339561	Y
6	STD8260 240-531220/14	40.0	13.899439	20.0	1043186.0	0.347486	Y
7	STD8260 240-531220/15	60.0	20.977975	20.0	1027981.0	0.349633	Y
8	STD8260 240-531220/16	80.0	27.101719	20.0	1035752.0	0.338771	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

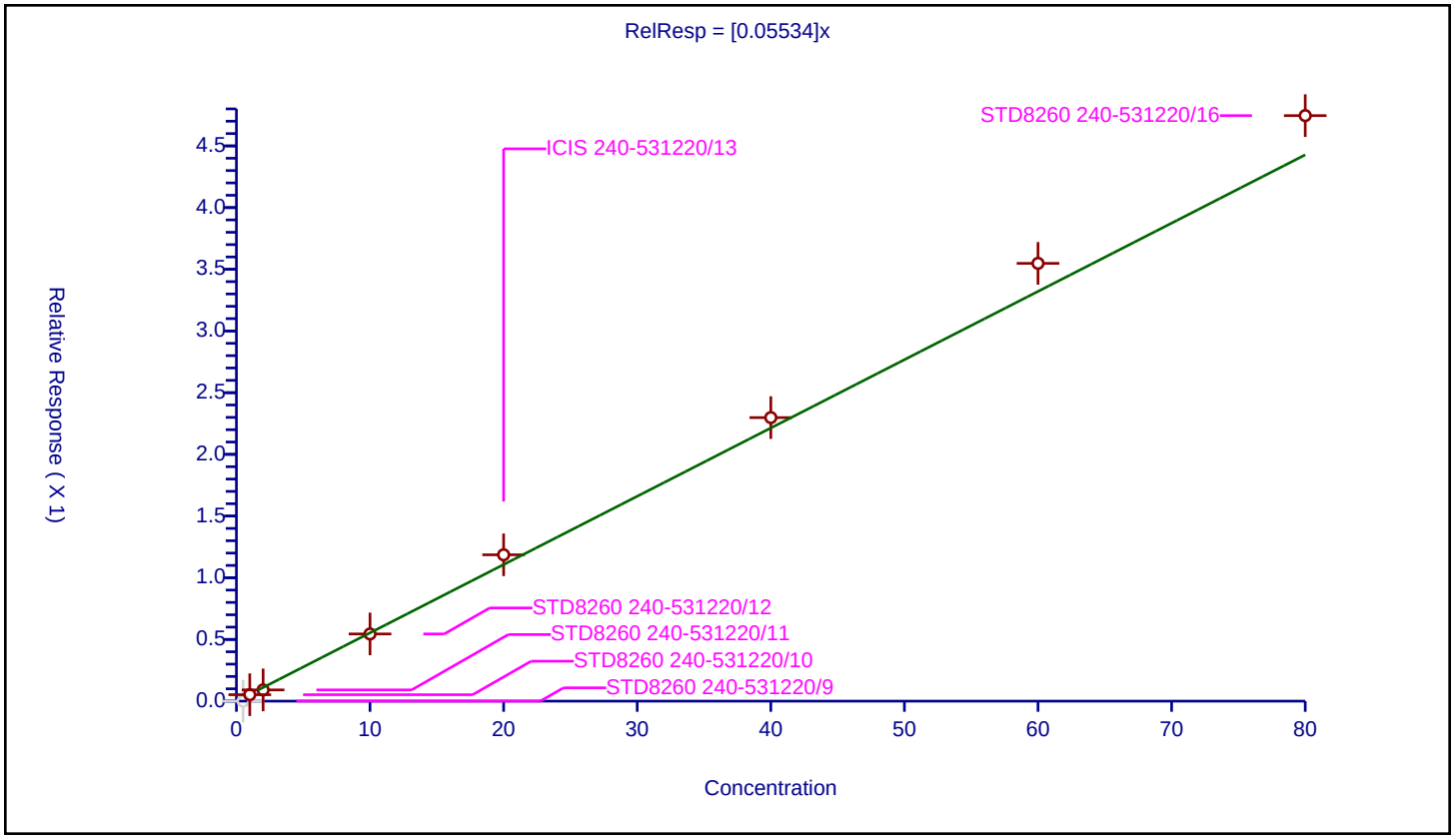
Curve Coefficients

Intercept:	0
Slope:	0.05534

Error Coefficients

Standard Error:	137000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.0	20.0	940017.0	0.0	N
2	STD8260 240-531220/10	1.0	0.052237	20.0	1011549.0	0.052237	Y
3	STD8260 240-531220/11	2.0	0.091035	20.0	983573.0	0.045518	Y
4	STD8260 240-531220/12	10.0	0.544471	20.0	1018383.0	0.054447	Y
5	ICIS 240-531220/13	20.0	1.18615	20.0	1012688.0	0.059308	Y
6	STD8260 240-531220/14	40.0	2.297999	20.0	1043186.0	0.05745	Y
7	STD8260 240-531220/15	60.0	3.548062	20.0	1027981.0	0.059134	Y
8	STD8260 240-531220/16	80.0	4.745364	20.0	1035752.0	0.059317	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

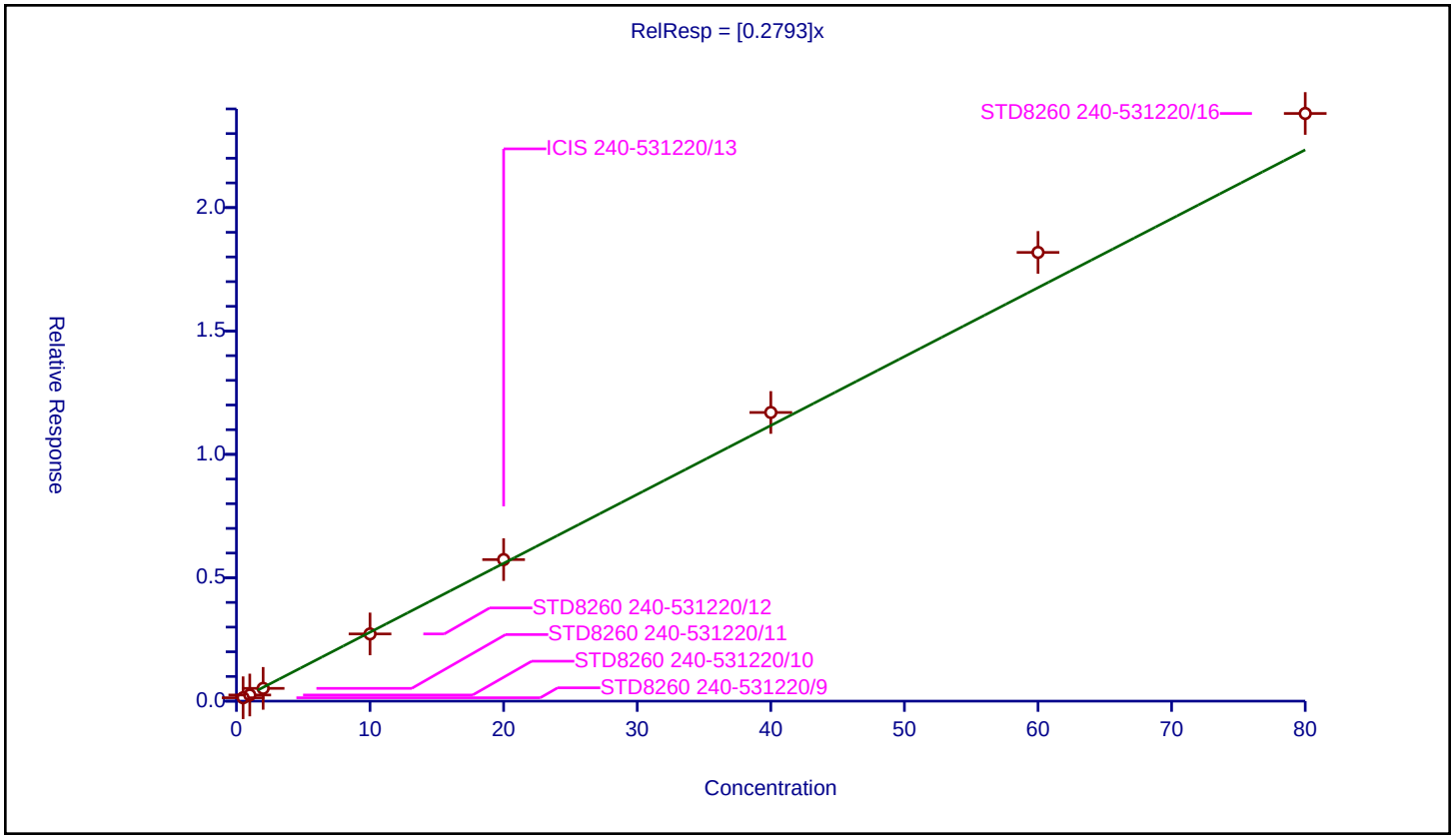
Curve Coefficients

Intercept:	0
Slope:	0.2793

Error Coefficients

Standard Error:	640000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.137295	20.0	940017.0	0.274591	Y
2	STD8260 240-531220/10	1.0	0.24847	20.0	1011549.0	0.24847	Y
3	STD8260 240-531220/11	2.0	0.517399	20.0	983573.0	0.2587	Y
4	STD8260 240-531220/12	10.0	2.723808	20.0	1018383.0	0.272381	Y
5	ICIS 240-531220/13	20.0	5.736021	20.0	1012688.0	0.286801	Y
6	STD8260 240-531220/14	40.0	11.698144	20.0	1043186.0	0.292454	Y
7	STD8260 240-531220/15	60.0	18.184033	20.0	1027981.0	0.303067	Y
8	STD8260 240-531220/16	80.0	23.813886	20.0	1035752.0	0.297674	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

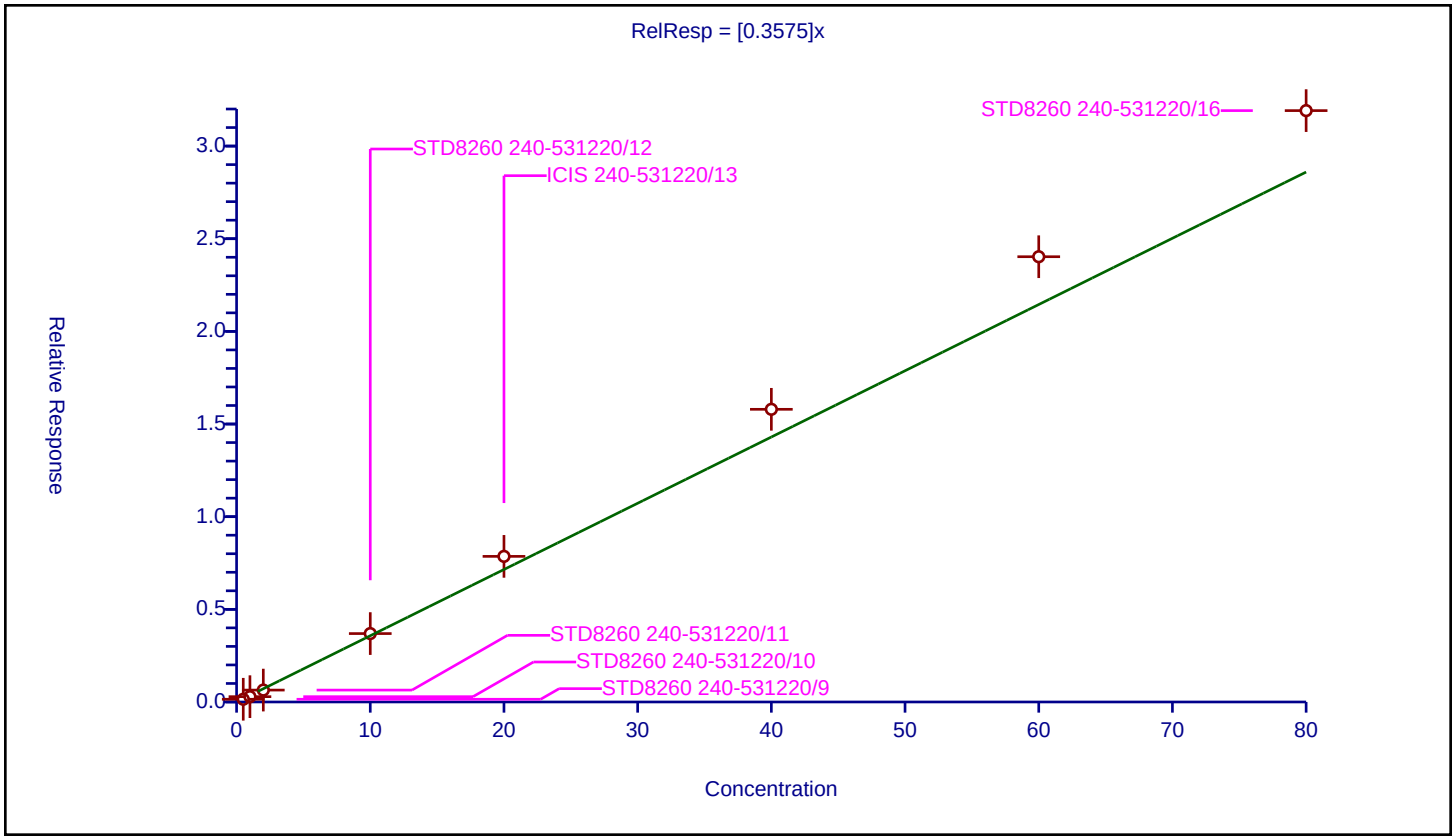
Curve Coefficients

Intercept:	0
Slope:	0.3575

Error Coefficients

Standard Error:	856000
Relative Standard Error:	13.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.147593	20.0	940017.0	0.295186	Y
2	STD8260 240-531220/10	1.0	0.286926	20.0	1011549.0	0.286926	Y
3	STD8260 240-531220/11	2.0	0.642677	20.0	983573.0	0.321339	Y
4	STD8260 240-531220/12	10.0	3.692029	20.0	1018383.0	0.369203	Y
5	ICIS 240-531220/13	20.0	7.858669	20.0	1012688.0	0.392933	Y
6	STD8260 240-531220/14	40.0	15.794269	20.0	1043186.0	0.394857	Y
7	STD8260 240-531220/15	60.0	24.028888	20.0	1027981.0	0.400481	Y
8	STD8260 240-531220/16	80.0	31.913238	20.0	1035752.0	0.398915	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

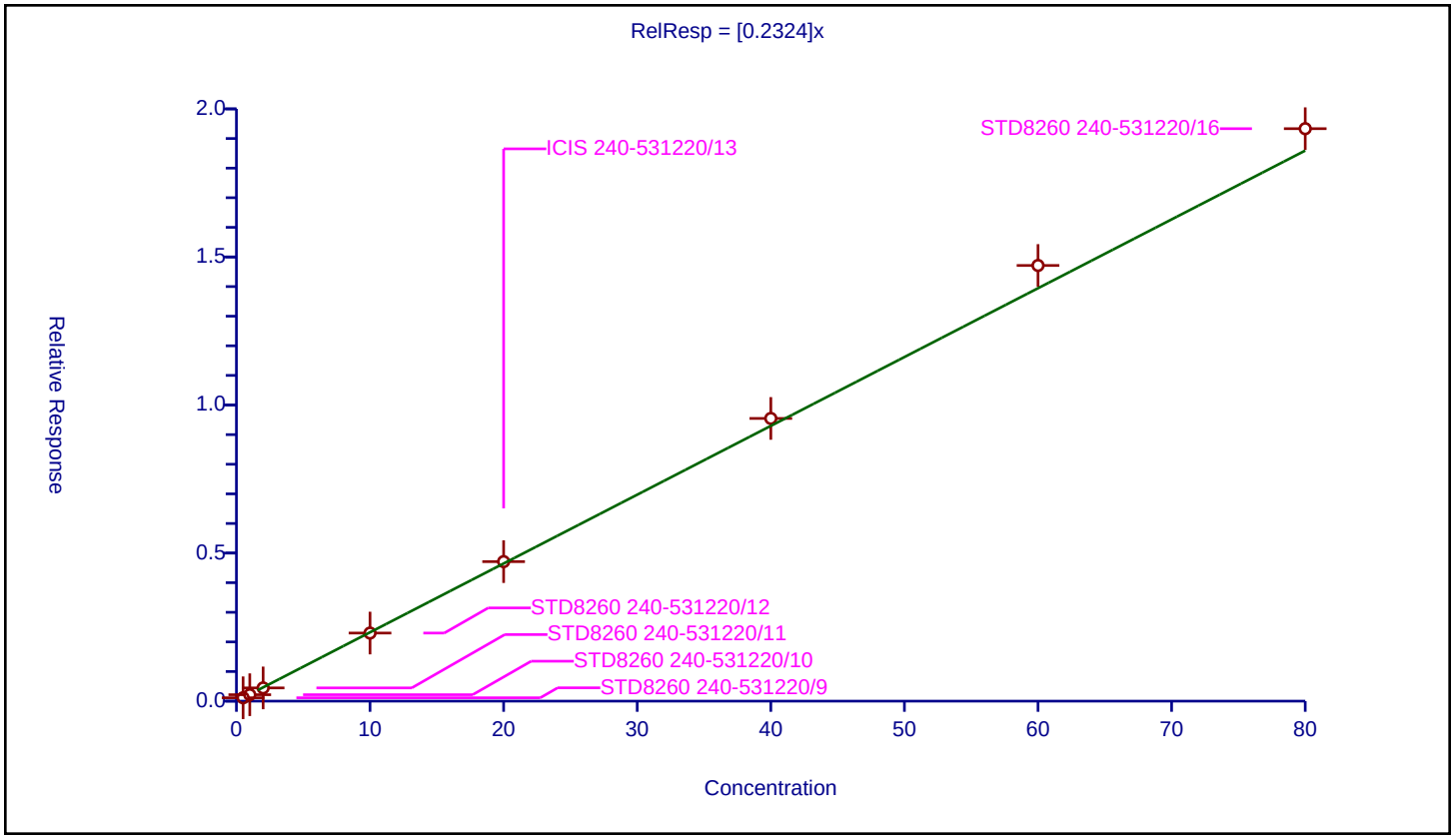
Curve Coefficients

Intercept:	0
Slope:	0.2324

Error Coefficients

Standard Error:	520000
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 240-531220/9	0.5	0.11404	20.0	940017.0	0.228081	Y
2	STD8260 240-531220/10	1.0	0.216757	20.0	1011549.0	0.216757	Y
3	STD8260 240-531220/11	2.0	0.446535	20.0	983573.0	0.223268	Y
4	STD8260 240-531220/12	10.0	2.299155	20.0	1018383.0	0.229915	Y
5	ICIS 240-531220/13	20.0	4.711935	20.0	1012688.0	0.235597	Y
6	STD8260 240-531220/14	40.0	9.547291	20.0	1043186.0	0.238682	Y
7	STD8260 240-531220/15	60.0	14.71212	20.0	1027981.0	0.245202	Y
8	STD8260 240-531220/16	80.0	19.331693	20.0	1035752.0	0.241646	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

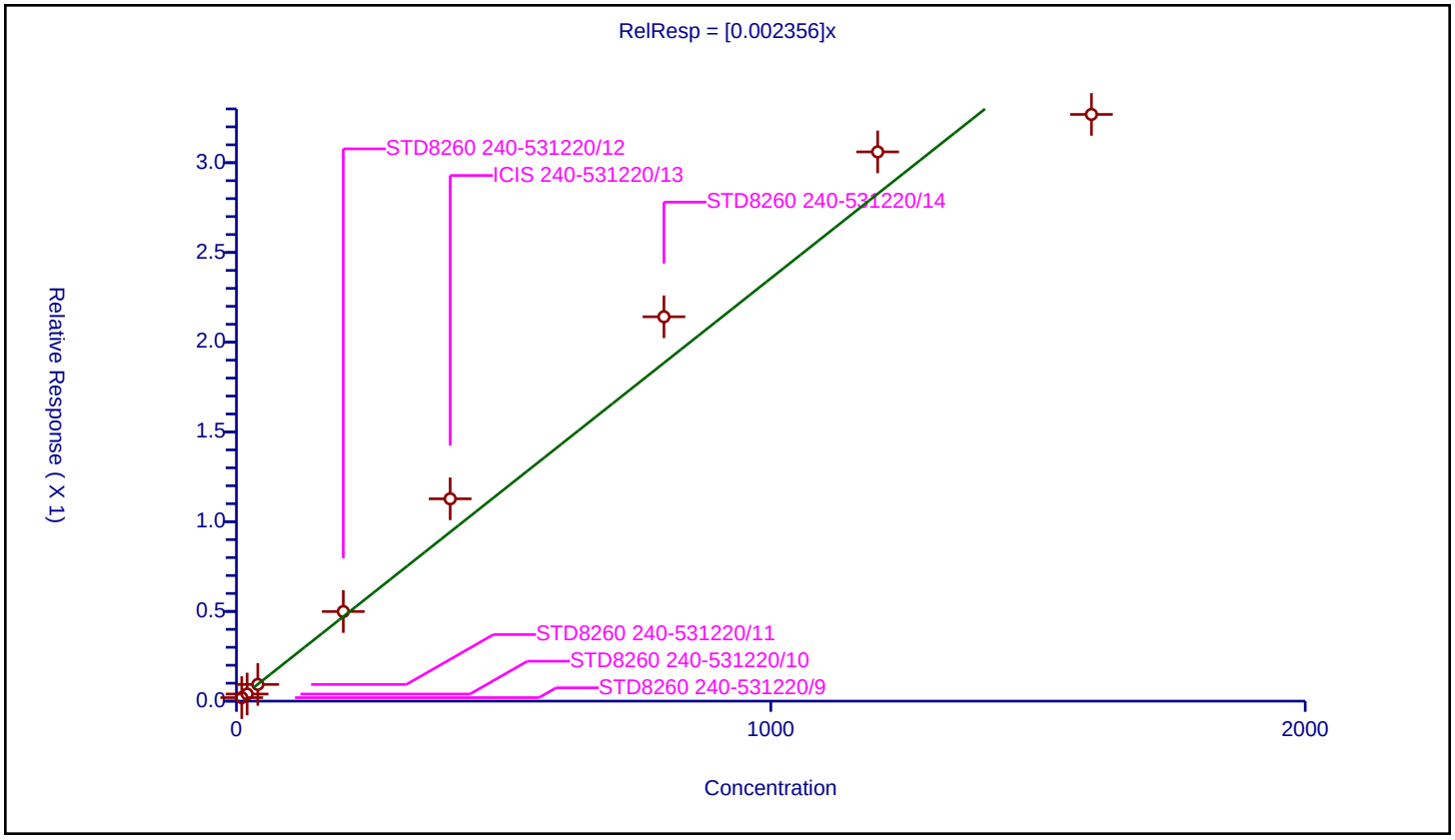
Curve Coefficients

Intercept:	0
Slope:	0.002356

Error Coefficients

Standard Error:	99900
Relative Standard Error:	14.2
Correlation Coefficient:	0.973
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	10.0	0.019553	20.0	940017.0	0.001955	Y
2	STD8260 240-531220/10	20.0	0.039524	20.0	1011549.0	0.001976	Y
3	STD8260 240-531220/11	40.0	0.09313	20.0	983573.0	0.002328	Y
4	STD8260 240-531220/12	200.0	0.499282	20.0	1018383.0	0.002496	Y
5	ICIS 240-531220/13	400.0	1.127376	20.0	1012688.0	0.002818	Y
6	STD8260 240-531220/14	800.0	2.141632	20.0	1043186.0	0.002677	Y
7	STD8260 240-531220/15	1200.0	3.060407	20.0	1027981.0	0.00255	Y
8	STD8260 240-531220/16	1600.0	3.269258	20.0	1035752.0	0.002043	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

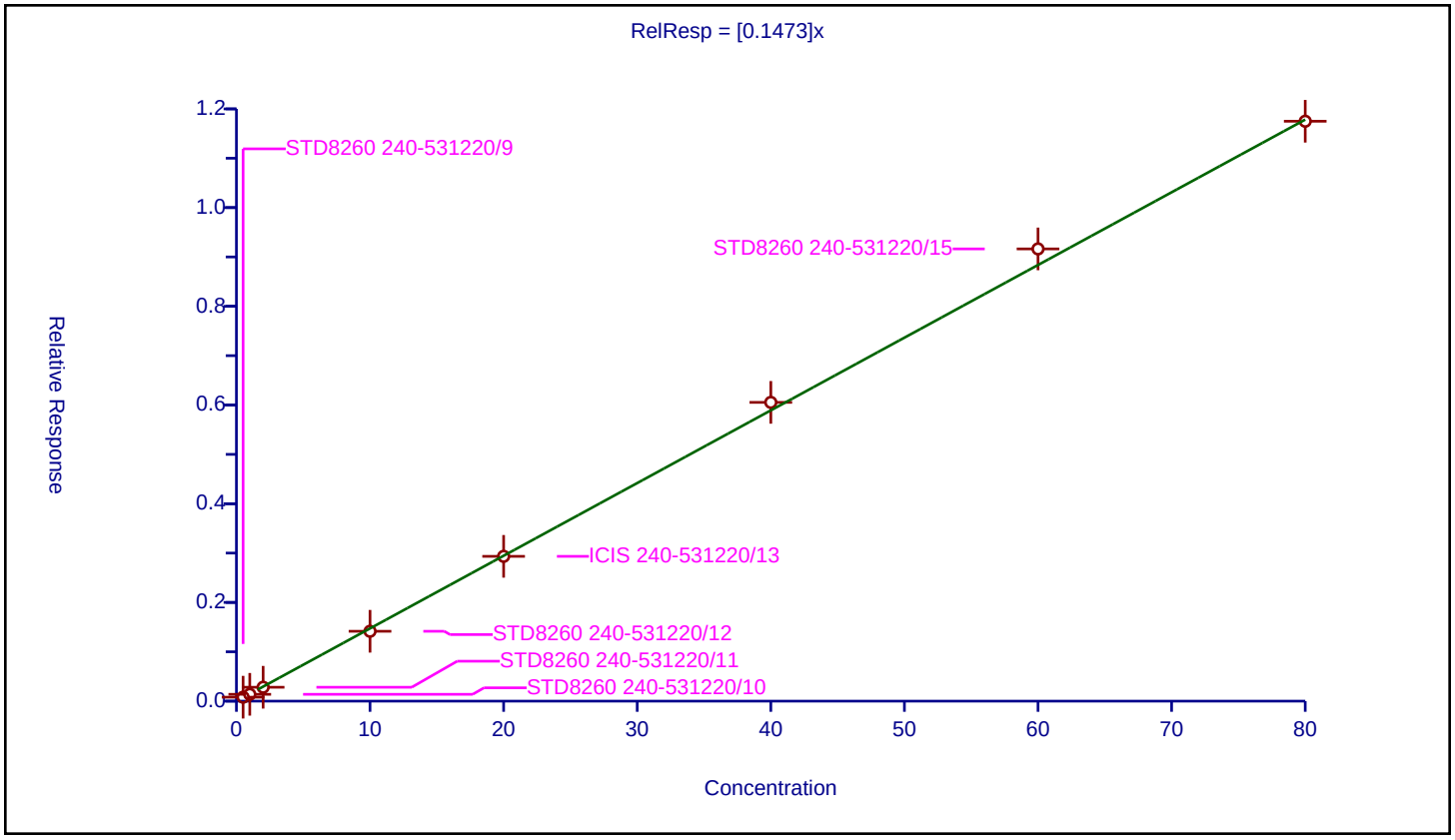
Curve Coefficients

Intercept:	0
Slope:	0.1473

Error Coefficients

Standard Error:	321000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.080105	20.0	940017.0	0.16021	Y
2	STD8260 240-531220/10	1.0	0.138184	20.0	1011549.0	0.138184	Y
3	STD8260 240-531220/11	2.0	0.281403	20.0	983573.0	0.140701	Y
4	STD8260 240-531220/12	10.0	1.415558	20.0	1018383.0	0.141556	Y
5	ICIS 240-531220/13	20.0	2.933954	20.0	1012688.0	0.146698	Y
6	STD8260 240-531220/14	40.0	6.053801	20.0	1043186.0	0.151345	Y
7	STD8260 240-531220/15	60.0	9.163146	20.0	1027981.0	0.152719	Y
8	STD8260 240-531220/16	80.0	11.749705	20.0	1035752.0	0.146871	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

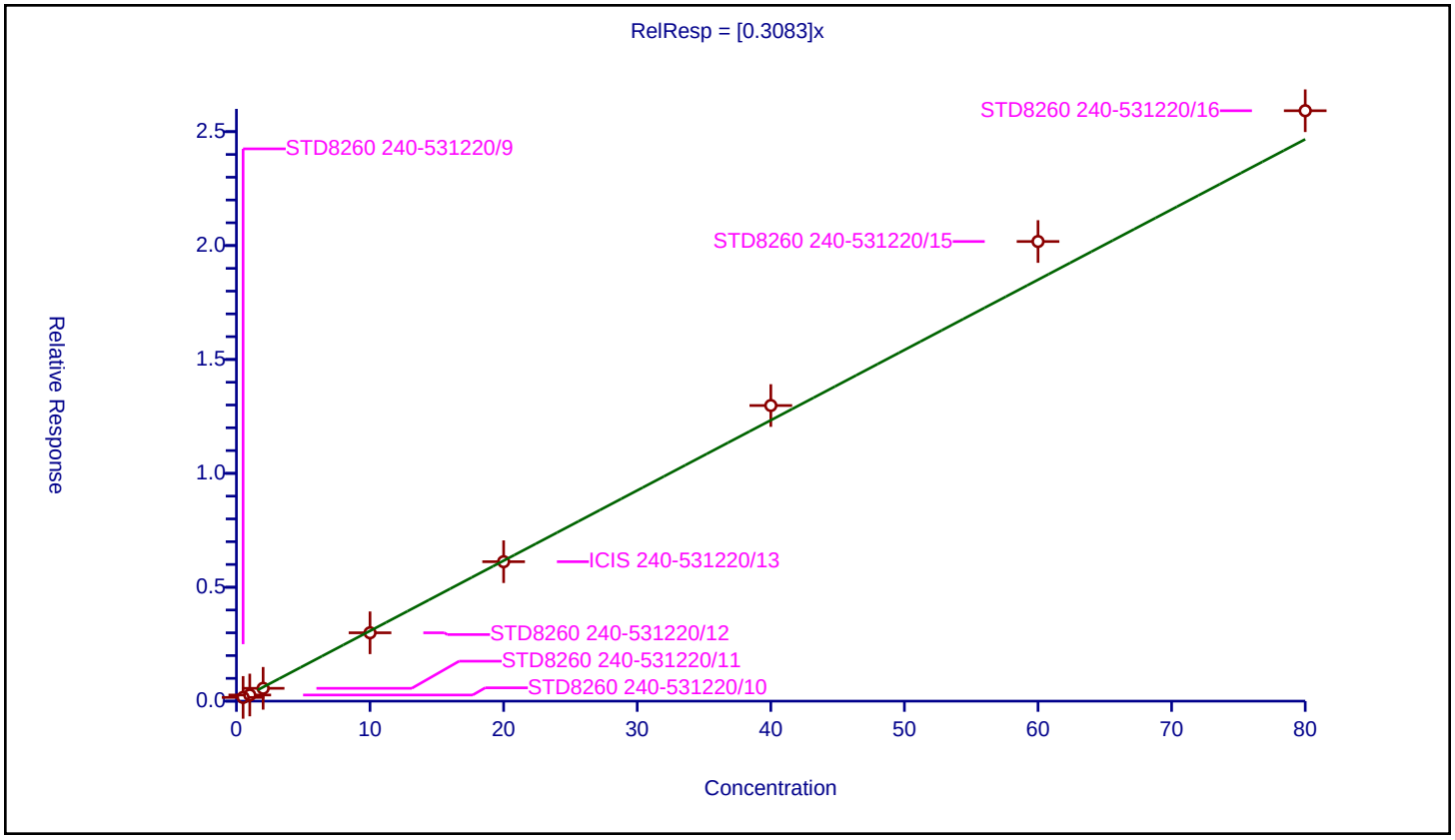
Curve Coefficients

Intercept:	0
Slope:	0.3083

Error Coefficients

Standard Error:	703000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.16255	20.0	940017.0	0.325101	Y
2	STD8260 240-531220/10	1.0	0.269349	20.0	1011549.0	0.269349	Y
3	STD8260 240-531220/11	2.0	0.562643	20.0	983573.0	0.281321	Y
4	STD8260 240-531220/12	10.0	3.000305	20.0	1018383.0	0.300031	Y
5	ICIS 240-531220/13	20.0	6.121096	20.0	1012688.0	0.306055	Y
6	STD8260 240-531220/14	40.0	12.97805	20.0	1043186.0	0.324451	Y
7	STD8260 240-531220/15	60.0	20.178836	20.0	1027981.0	0.336314	Y
8	STD8260 240-531220/16	80.0	25.919622	20.0	1035752.0	0.323995	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

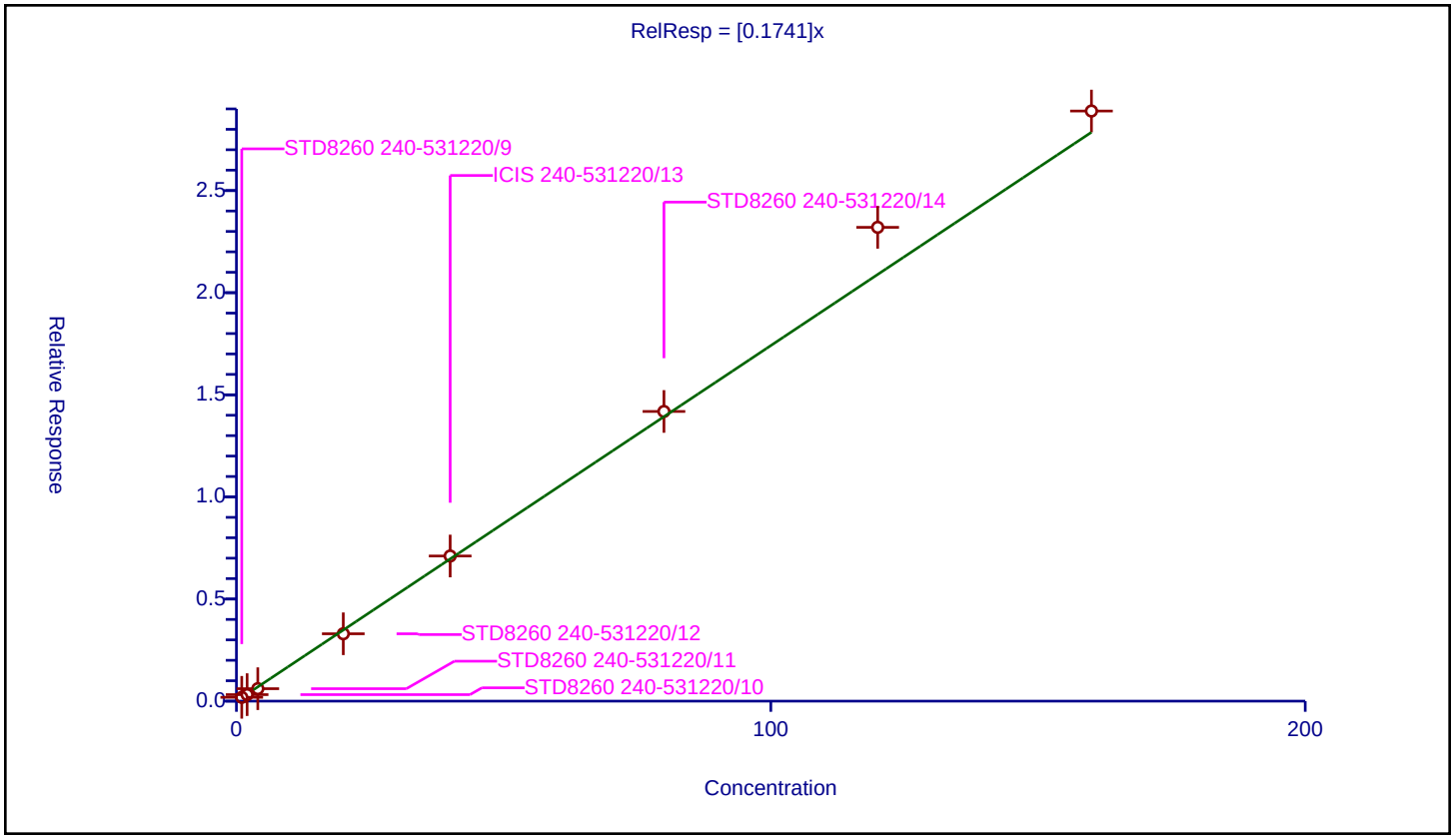
Curve Coefficients

Intercept:	0
Slope:	0.1741

Error Coefficients

Standard Error:	790000
Relative Standard Error:	8.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	1.0	0.187422	20.0	940017.0	0.187422	Y
2	STD8260 240-531220/10	2.0	0.318541	20.0	1011549.0	0.159271	Y
3	STD8260 240-531220/11	4.0	0.609106	20.0	983573.0	0.152276	Y
4	STD8260 240-531220/12	20.0	3.299191	20.0	1018383.0	0.16496	Y
5	ICIS 240-531220/13	40.0	7.106532	20.0	1012688.0	0.177663	Y
6	STD8260 240-531220/14	80.0	14.184201	20.0	1043186.0	0.177303	Y
7	STD8260 240-531220/15	120.0	23.20004	20.0	1027981.0	0.193334	Y
8	STD8260 240-531220/16	160.0	28.896087	20.0	1035752.0	0.180601	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

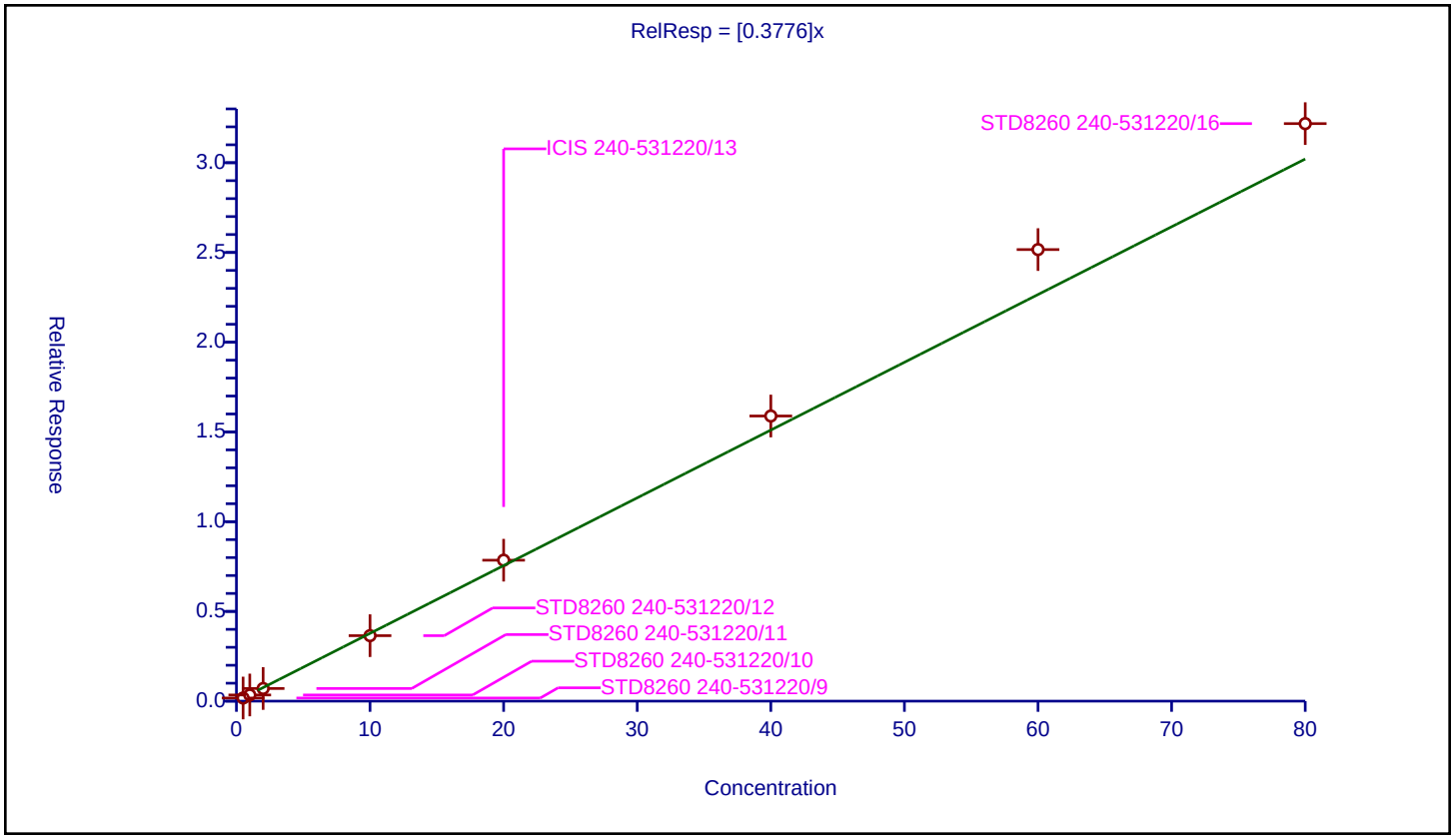
Curve Coefficients

Intercept:	0
Slope:	0.3776

Error Coefficients

Standard Error:	873000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.174678	20.0	940017.0	0.349355	Y
2	STD8260 240-531220/10	1.0	0.343018	20.0	1011549.0	0.343018	Y
3	STD8260 240-531220/11	2.0	0.703984	20.0	983573.0	0.351992	Y
4	STD8260 240-531220/12	10.0	3.649099	20.0	1018383.0	0.36491	Y
5	ICIS 240-531220/13	20.0	7.853139	20.0	1012688.0	0.392657	Y
6	STD8260 240-531220/14	40.0	15.887943	20.0	1043186.0	0.397199	Y
7	STD8260 240-531220/15	60.0	25.161749	20.0	1027981.0	0.419362	Y
8	STD8260 240-531220/16	80.0	32.180001	20.0	1035752.0	0.40225	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

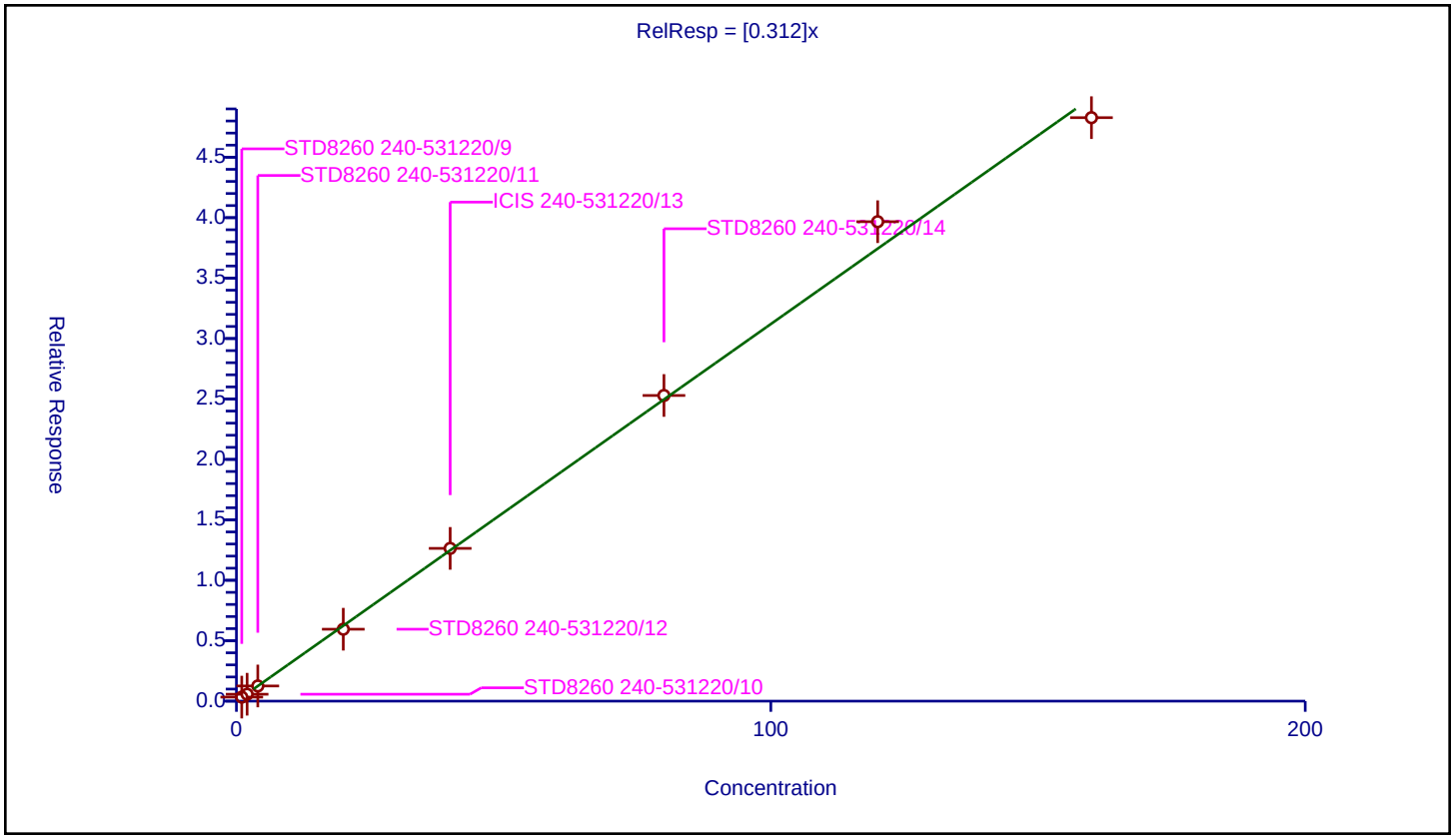
Curve Coefficients

Intercept:	0
Slope:	0.312

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	5.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	1.0	0.334483	20.0	940017.0	0.334483	Y
2	STD8260 240-531220/10	2.0	0.570887	20.0	1011549.0	0.285443	Y
3	STD8260 240-531220/11	4.0	1.255769	20.0	983573.0	0.313942	Y
4	STD8260 240-531220/12	20.0	5.951749	20.0	1018383.0	0.297587	Y
5	ICIS 240-531220/13	40.0	12.638601	20.0	1012688.0	0.315965	Y
6	STD8260 240-531220/14	80.0	25.288875	20.0	1043186.0	0.316111	Y
7	STD8260 240-531220/15	120.0	39.668729	20.0	1027981.0	0.330573	Y
8	STD8260 240-531220/16	160.0	48.274684	20.0	1035752.0	0.301717	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

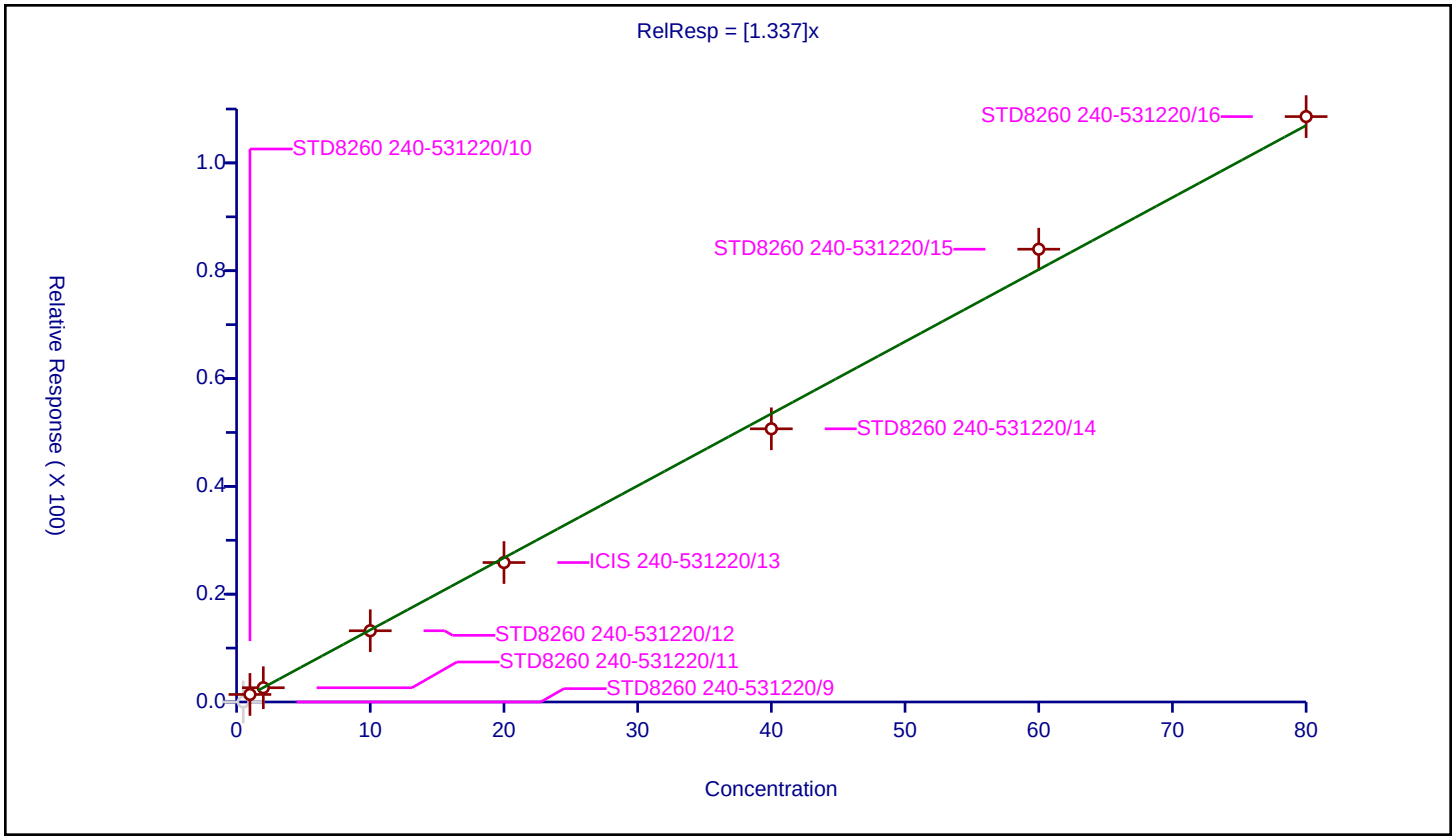
Curve Coefficients

Intercept:	0
Slope:	1.337

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.0	20.0	665784.0	0.0	N
2	STD8260 240-531220/10	1.0	1.397679	20.0	729295.0	1.397679	Y
3	STD8260 240-531220/11	2.0	2.641888	20.0	709977.0	1.320944	Y
4	STD8260 240-531220/12	10.0	13.217276	20.0	734404.0	1.321728	Y
5	ICIS 240-531220/13	20.0	25.867062	20.0	738465.0	1.293353	Y
6	STD8260 240-531220/14	40.0	50.679812	20.0	761019.0	1.266995	Y
7	STD8260 240-531220/15	60.0	83.996718	20.0	737310.0	1.399945	Y
8	STD8260 240-531220/16	80.0	108.596634	20.0	743498.0	1.357458	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

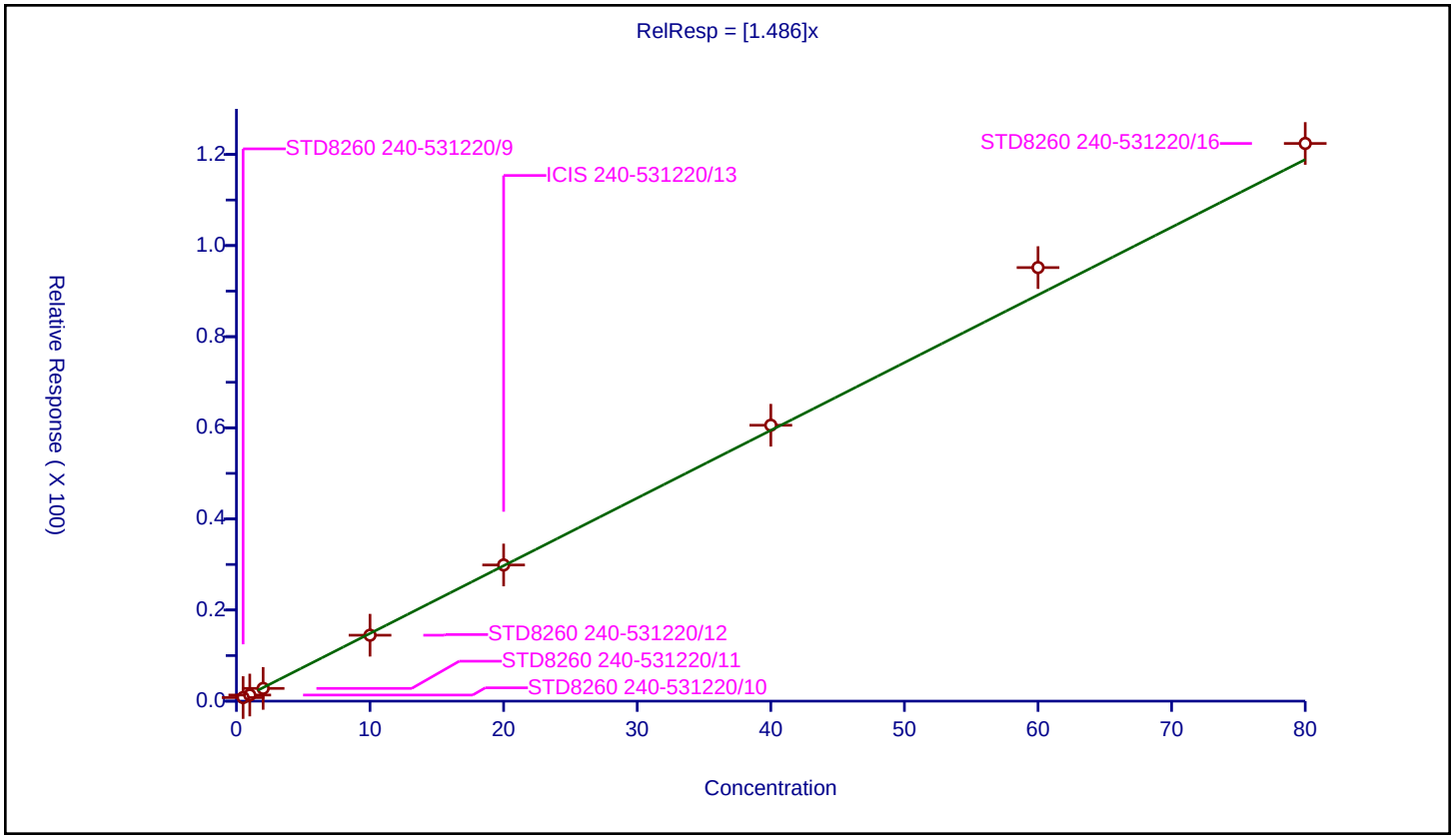
Curve Coefficients

Intercept:	0
Slope:	1.486

Error Coefficients

Standard Error:	2390000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.788184	20.0	665784.0	1.576367	Y
2	STD8260 240-531220/10	1.0	1.341762	20.0	729295.0	1.341762	Y
3	STD8260 240-531220/11	2.0	2.795302	20.0	709977.0	1.397651	Y
4	STD8260 240-531220/12	10.0	14.474867	20.0	734404.0	1.447487	Y
5	ICIS 240-531220/13	20.0	29.890733	20.0	738465.0	1.494537	Y
6	STD8260 240-531220/14	40.0	60.565715	20.0	761019.0	1.514143	Y
7	STD8260 240-531220/15	60.0	95.170254	20.0	737310.0	1.586171	Y
8	STD8260 240-531220/16	80.0	122.412434	20.0	743498.0	1.530155	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

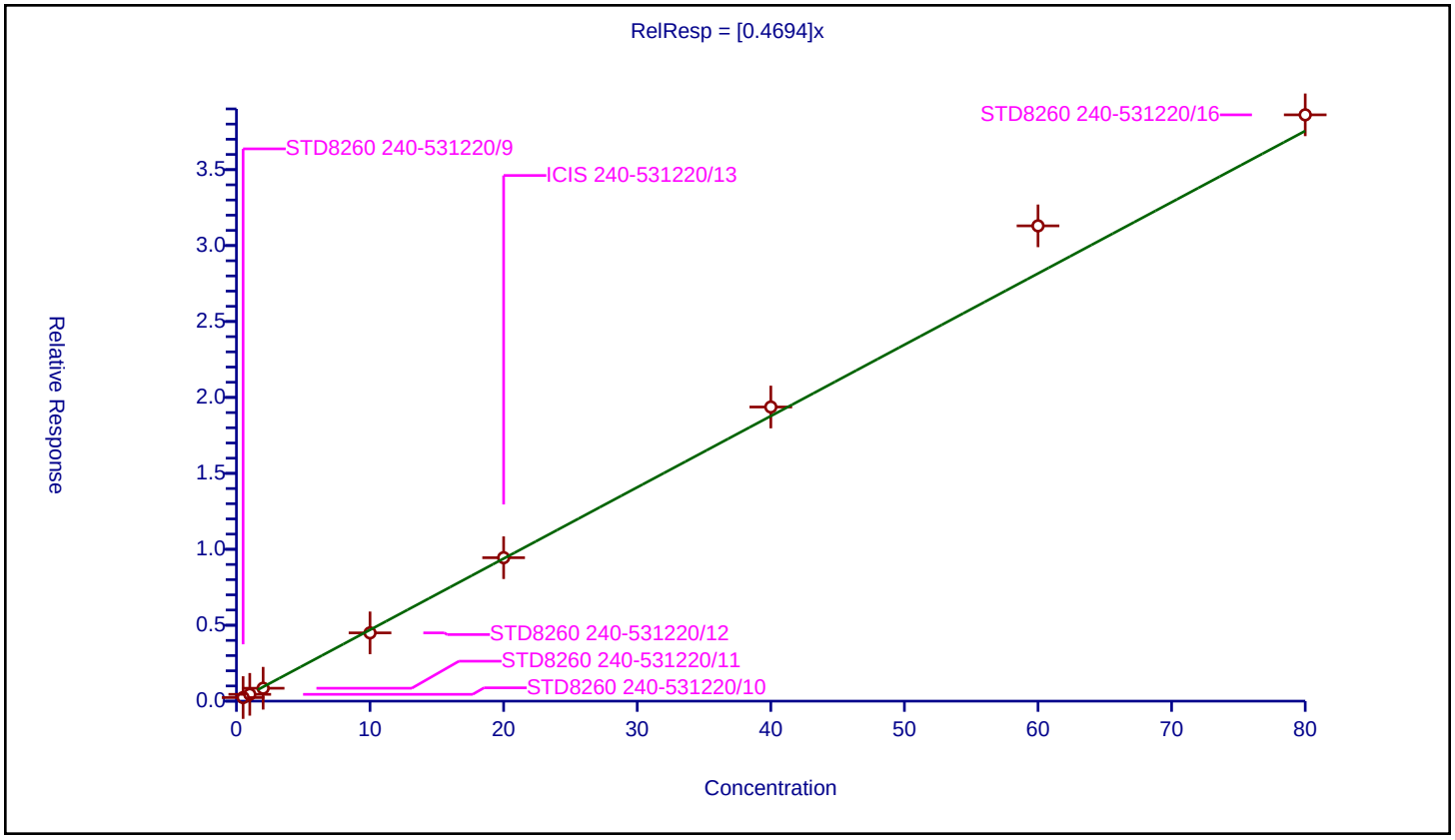
Curve Coefficients

Intercept:	0
Slope:	0.4694

Error Coefficients

Standard Error:	764000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.235392	20.0	665784.0	0.470783	Y
2	STD8260 240-531220/10	1.0	0.448652	20.0	729295.0	0.448652	Y
3	STD8260 240-531220/11	2.0	0.850168	20.0	709977.0	0.425084	Y
4	STD8260 240-531220/12	10.0	4.495891	20.0	734404.0	0.449589	Y
5	ICIS 240-531220/13	20.0	9.44516	20.0	738465.0	0.472258	Y
6	STD8260 240-531220/14	40.0	19.368951	20.0	761019.0	0.484224	Y
7	STD8260 240-531220/15	60.0	31.299101	20.0	737310.0	0.521652	Y
8	STD8260 240-531220/16	80.0	38.609223	20.0	743498.0	0.482615	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

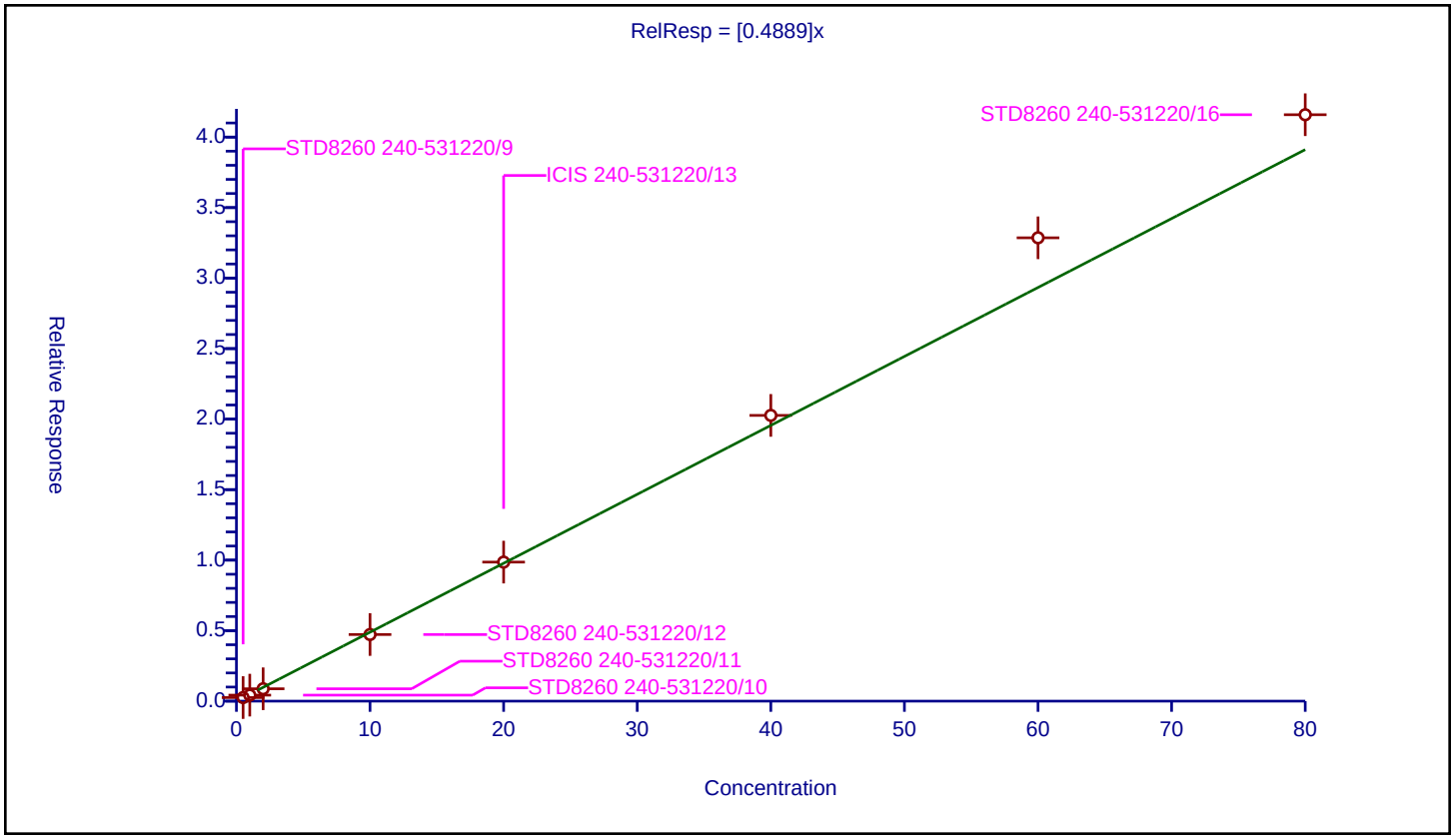
Curve Coefficients

Intercept:	0
Slope:	0.4889

Error Coefficients

Standard Error:	812000
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 240-531220/9	0.5	0.253566	20.0	665784.0	0.507131	Y
2	STD8260 240-531220/10	1.0	0.425287	20.0	729295.0	0.425287	Y
3	STD8260 240-531220/11	2.0	0.878113	20.0	709977.0	0.439056	Y
4	STD8260 240-531220/12	10.0	4.72541	20.0	734404.0	0.472541	Y
5	ICIS 240-531220/13	20.0	9.859912	20.0	738465.0	0.492996	Y
6	STD8260 240-531220/14	40.0	20.26454	20.0	761019.0	0.506614	Y
7	STD8260 240-531220/15	60.0	32.859177	20.0	737310.0	0.547653	Y
8	STD8260 240-531220/16	80.0	41.587146	20.0	743498.0	0.519839	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

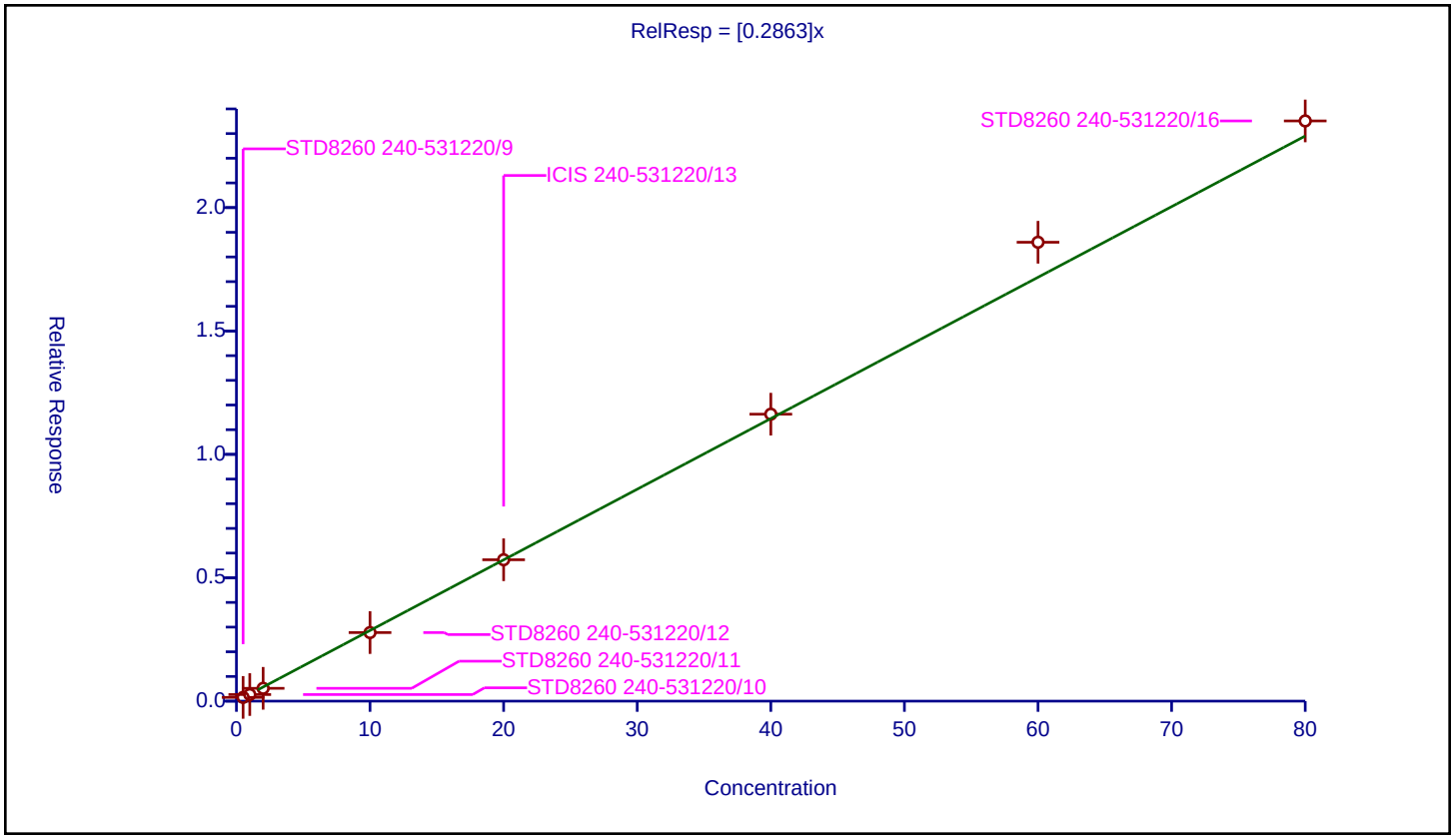
Curve Coefficients

Intercept:	0
Slope:	0.2863

Error Coefficients

Standard Error:	461000
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 240-531220/9	0.5	0.151971	20.0	665784.0	0.303942	Y
2	STD8260 240-531220/10	1.0	0.267299	20.0	729295.0	0.267299	Y
3	STD8260 240-531220/11	2.0	0.520101	20.0	709977.0	0.260051	Y
4	STD8260 240-531220/12	10.0	2.778226	20.0	734404.0	0.277823	Y
5	ICIS 240-531220/13	20.0	5.729425	20.0	738465.0	0.286471	Y
6	STD8260 240-531220/14	40.0	11.629171	20.0	761019.0	0.290729	Y
7	STD8260 240-531220/15	60.0	18.596438	20.0	737310.0	0.309941	Y
8	STD8260 240-531220/16	80.0	23.512182	20.0	743498.0	0.293902	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

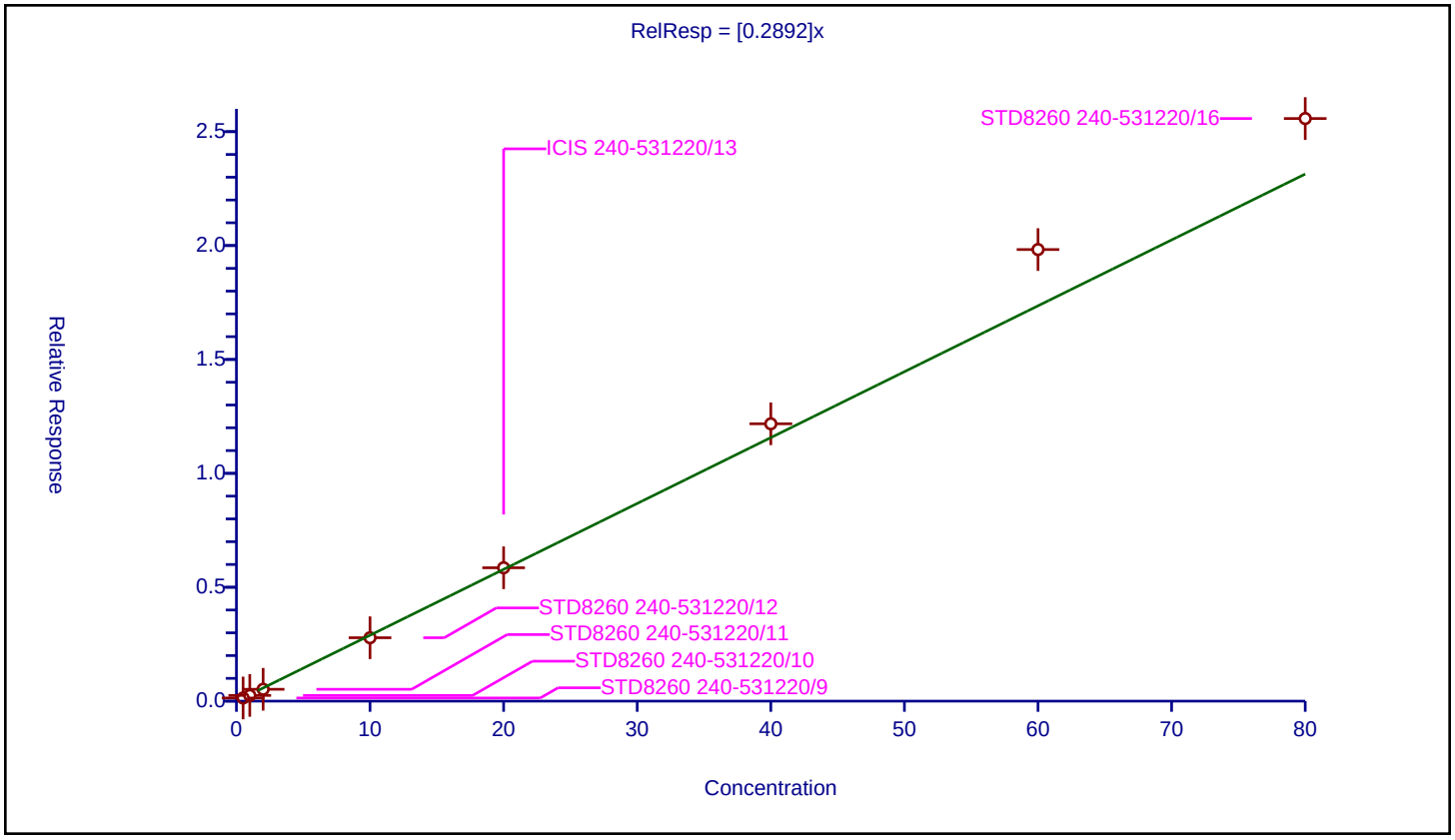
Curve Coefficients

Intercept:	0
Slope:	0.2892

Error Coefficients

Standard Error:	494000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.138724	20.0	665784.0	0.277447	Y
2	STD8260 240-531220/10	1.0	0.25068	20.0	729295.0	0.25068	Y
3	STD8260 240-531220/11	2.0	0.520355	20.0	709977.0	0.260177	Y
4	STD8260 240-531220/12	10.0	2.783645	20.0	734404.0	0.278364	Y
5	ICIS 240-531220/13	20.0	5.854495	20.0	738465.0	0.292725	Y
6	STD8260 240-531220/14	40.0	12.175754	20.0	761019.0	0.304394	Y
7	STD8260 240-531220/15	60.0	19.824931	20.0	737310.0	0.330416	Y
8	STD8260 240-531220/16	80.0	25.577231	20.0	743498.0	0.319715	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

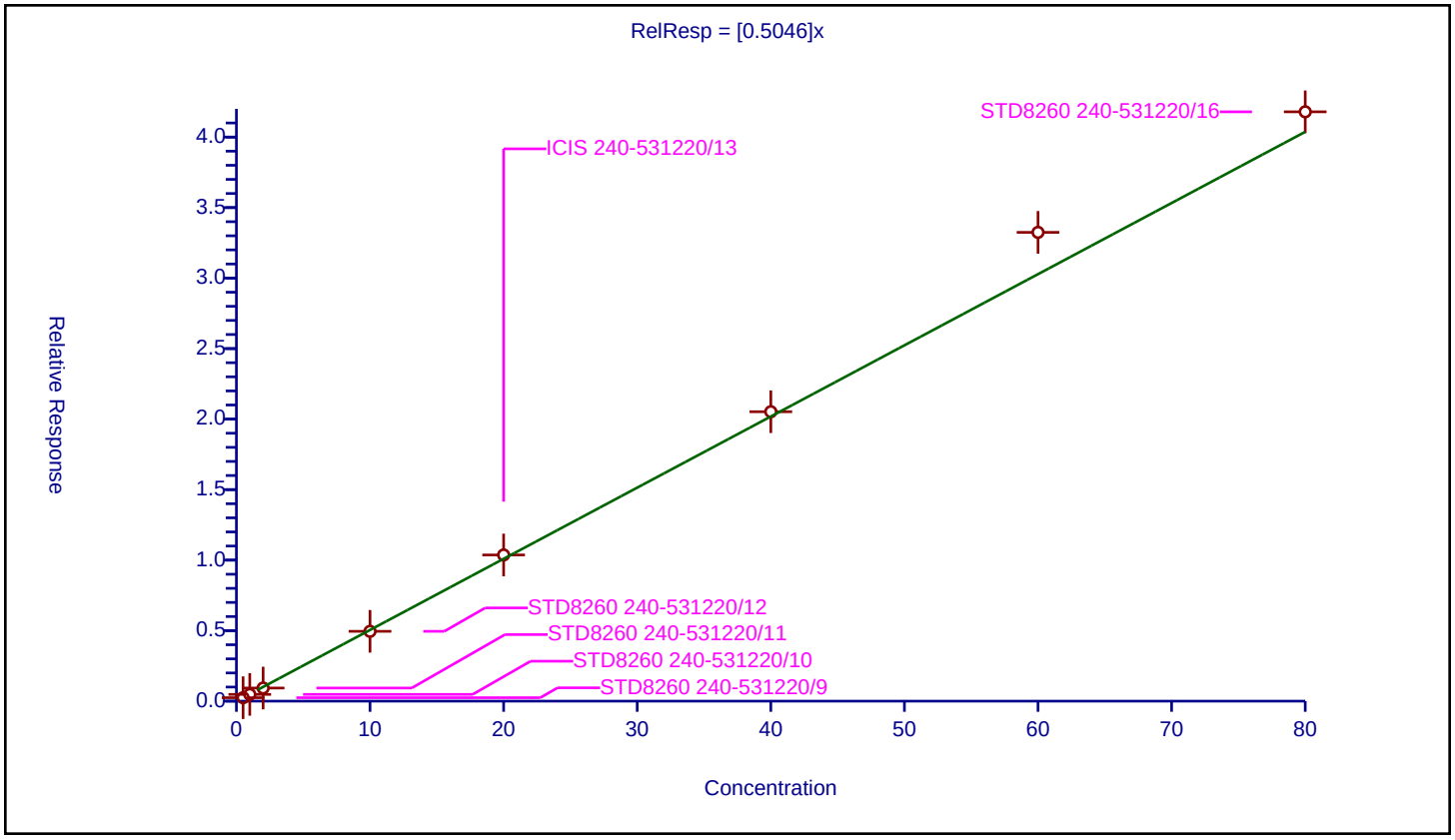
Curve Coefficients

Intercept:	0
Slope:	0.5046

Error Coefficients

Standard Error:	820000
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 240-531220/9	0.5	0.245185	20.0	665784.0	0.490369	Y
2	STD8260 240-531220/10	1.0	0.478873	20.0	729295.0	0.478873	Y
3	STD8260 240-531220/11	2.0	0.929664	20.0	709977.0	0.464832	Y
4	STD8260 240-531220/12	10.0	4.951335	20.0	734404.0	0.495133	Y
5	ICIS 240-531220/13	20.0	10.367424	20.0	738465.0	0.518371	Y
6	STD8260 240-531220/14	40.0	20.524954	20.0	761019.0	0.513124	Y
7	STD8260 240-531220/15	60.0	33.243602	20.0	737310.0	0.55406	Y
8	STD8260 240-531220/16	80.0	41.792069	20.0	743498.0	0.522401	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

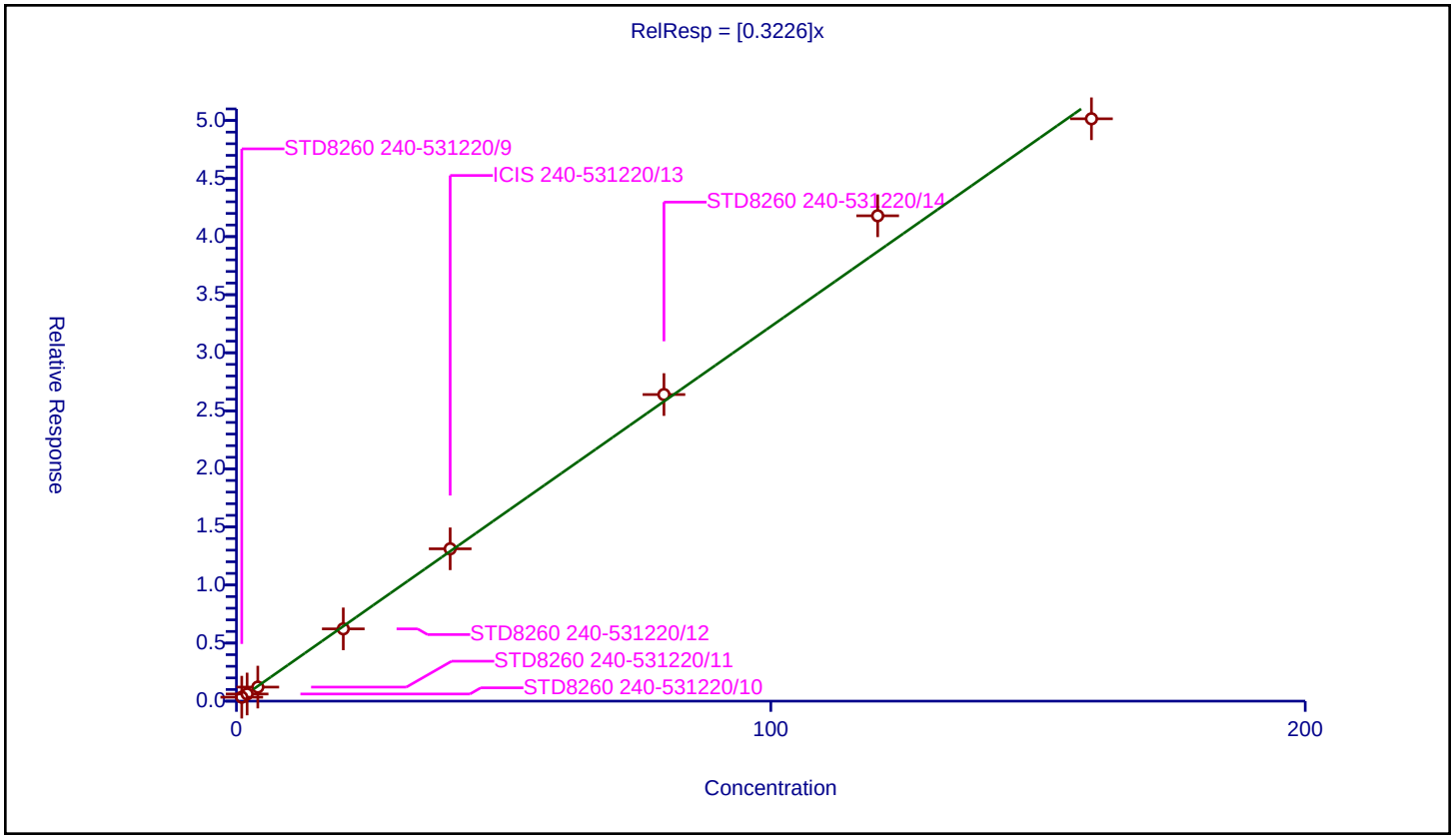
Curve Coefficients

Intercept:	0
Slope:	0.3226

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	5.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	1.0	0.34011	20.0	665784.0	0.34011	Y
2	STD8260 240-531220/10	2.0	0.615581	20.0	729295.0	0.30779	Y
3	STD8260 240-531220/11	4.0	1.208997	20.0	709977.0	0.302249	Y
4	STD8260 240-531220/12	20.0	6.223659	20.0	734404.0	0.311183	Y
5	ICIS 240-531220/13	40.0	13.11702	20.0	738465.0	0.327925	Y
6	STD8260 240-531220/14	80.0	26.402311	20.0	761019.0	0.330029	Y
7	STD8260 240-531220/15	120.0	41.795473	20.0	737310.0	0.348296	Y
8	STD8260 240-531220/16	160.0	50.149079	20.0	743498.0	0.313432	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

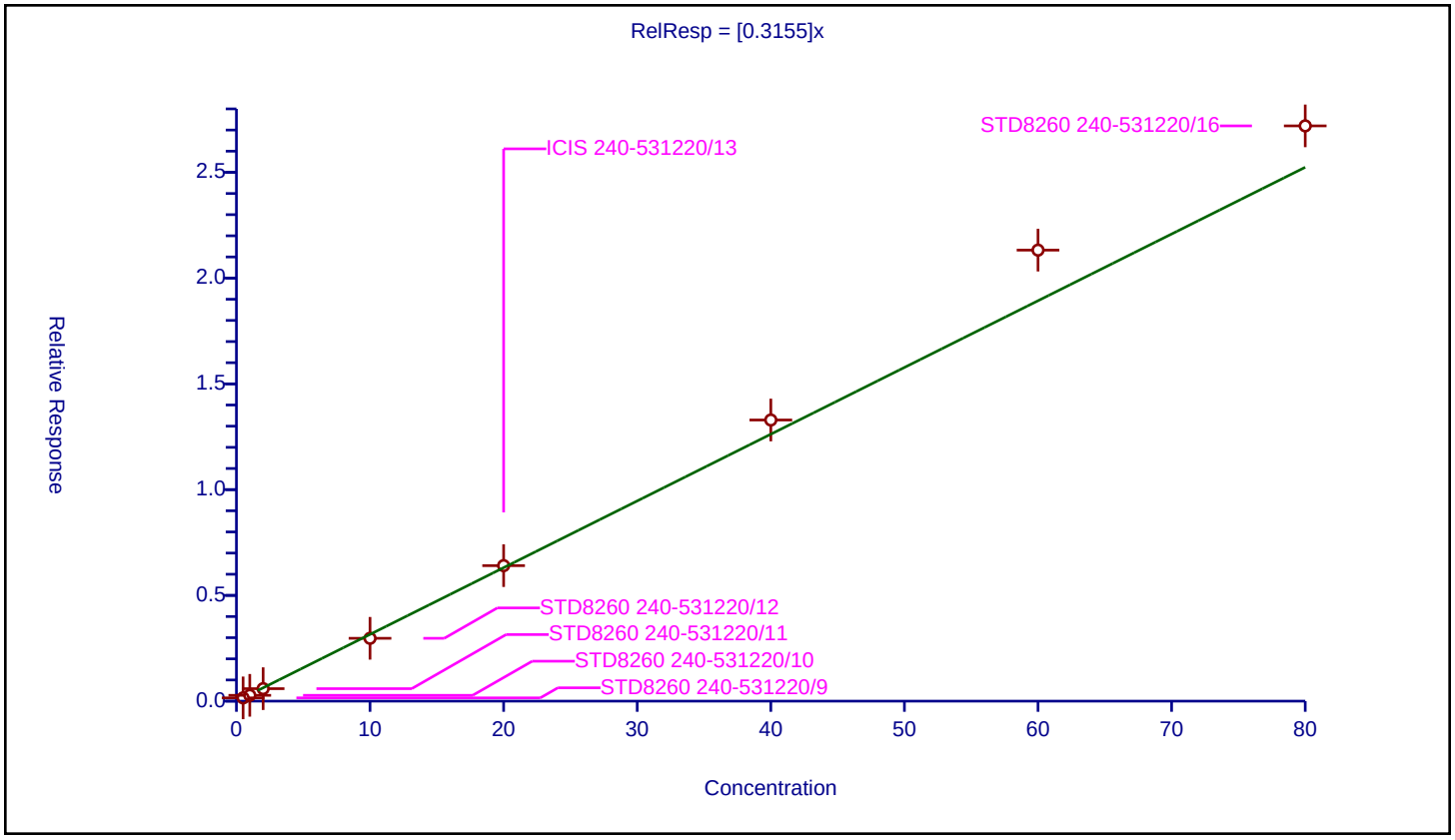
Curve Coefficients

Intercept:	0
Slope:	0.3155

Error Coefficients

Standard Error:	530000
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 240-531220/9	0.5	0.154284	20.0	665784.0	0.308569	Y
2	STD8260 240-531220/10	1.0	0.275609	20.0	729295.0	0.275609	Y
3	STD8260 240-531220/11	2.0	0.589484	20.0	709977.0	0.294742	Y
4	STD8260 240-531220/12	10.0	2.970953	20.0	734404.0	0.297095	Y
5	ICIS 240-531220/13	20.0	6.406072	20.0	738465.0	0.320304	Y
6	STD8260 240-531220/14	40.0	13.291757	20.0	761019.0	0.332294	Y
7	STD8260 240-531220/15	60.0	21.322537	20.0	737310.0	0.355376	Y
8	STD8260 240-531220/16	80.0	27.197087	20.0	743498.0	0.339964	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

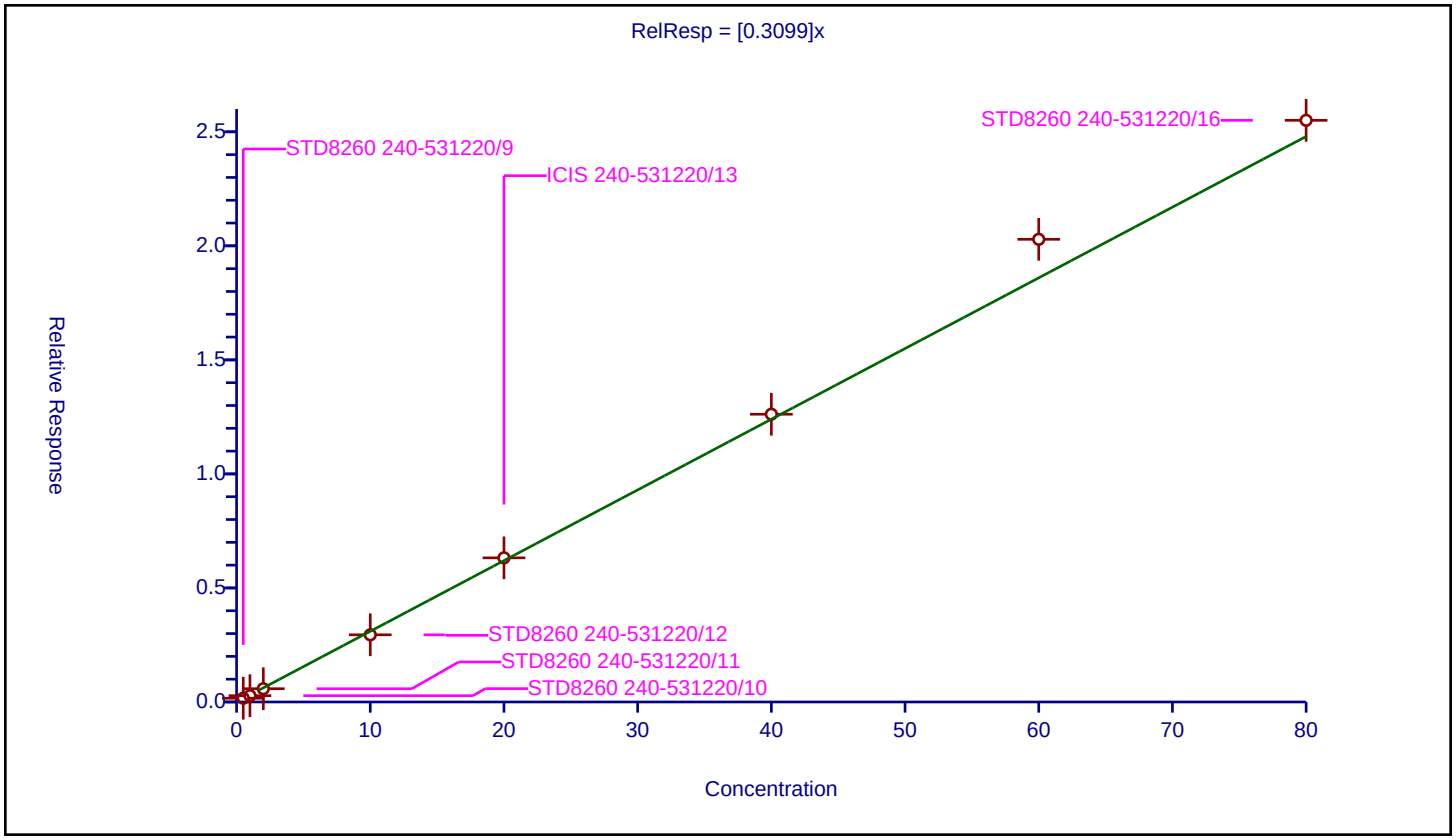
Curve Coefficients

Intercept:	0
Slope:	0.3099

Error Coefficients

Standard Error:	501000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.164708	20.0	665784.0	0.329416	Y
2	STD8260 240-531220/10	1.0	0.276185	20.0	729295.0	0.276185	Y
3	STD8260 240-531220/11	2.0	0.582103	20.0	709977.0	0.291052	Y
4	STD8260 240-531220/12	10.0	2.94549	20.0	734404.0	0.294549	Y
5	ICIS 240-531220/13	20.0	6.320841	20.0	738465.0	0.316042	Y
6	STD8260 240-531220/14	40.0	12.617188	20.0	761019.0	0.31543	Y
7	STD8260 240-531220/15	60.0	20.286664	20.0	737310.0	0.338111	Y
8	STD8260 240-531220/16	80.0	25.504413	20.0	743498.0	0.318805	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

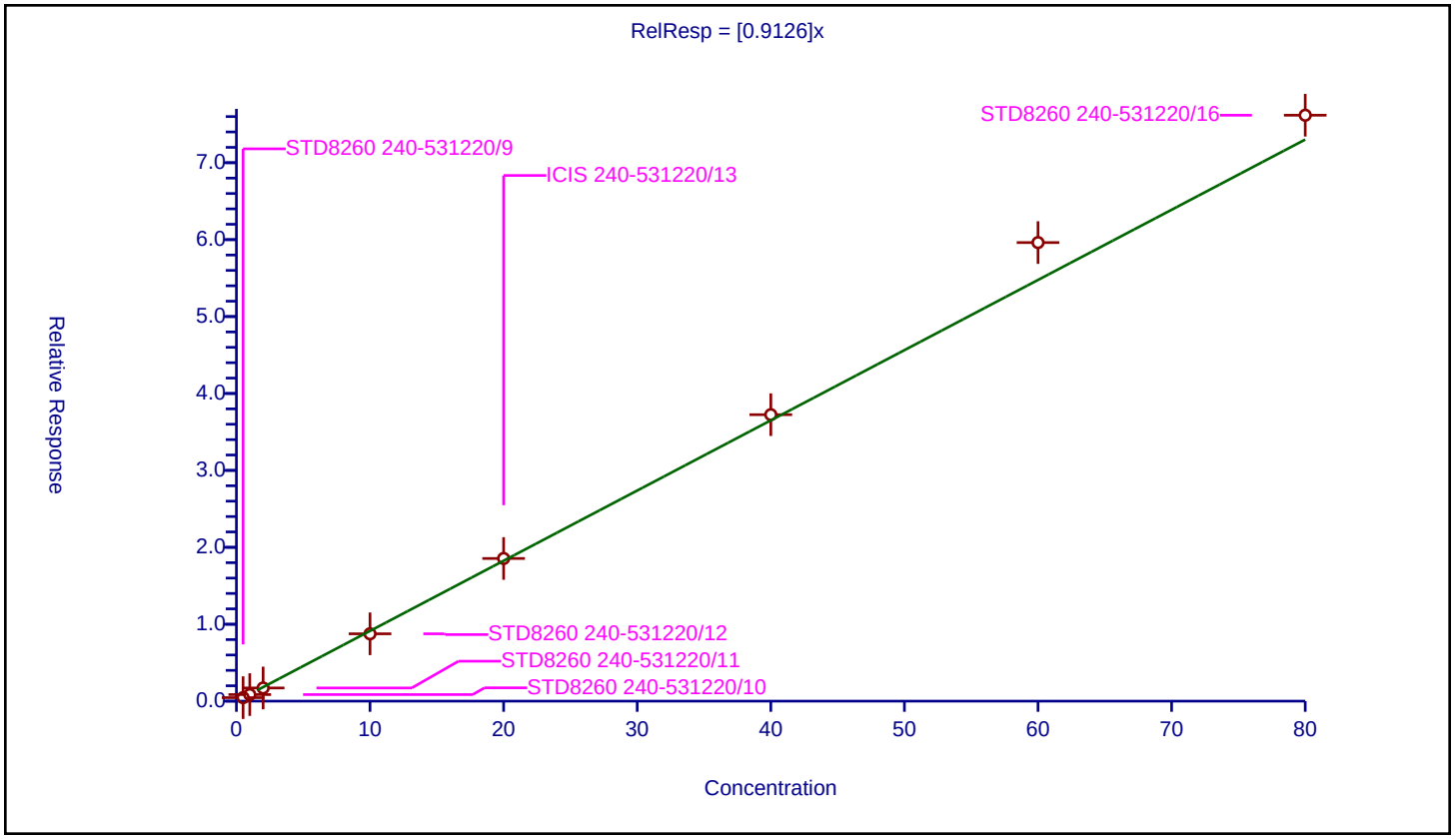
Curve Coefficients

Intercept:	0
Slope:	0.9126

Error Coefficients

Standard Error:	1480000
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 240-531220/9	0.5	0.456875	20.0	665784.0	0.91375	Y
2	STD8260 240-531220/10	1.0	0.852028	20.0	729295.0	0.852028	Y
3	STD8260 240-531220/11	2.0	1.710985	20.0	709977.0	0.855493	Y
4	STD8260 240-531220/12	10.0	8.755236	20.0	734404.0	0.875524	Y
5	ICIS 240-531220/13	20.0	18.547988	20.0	738465.0	0.927399	Y
6	STD8260 240-531220/14	40.0	37.244642	20.0	761019.0	0.931116	Y
7	STD8260 240-531220/15	60.0	59.618885	20.0	737310.0	0.993648	Y
8	STD8260 240-531220/16	80.0	76.176452	20.0	743498.0	0.952206	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

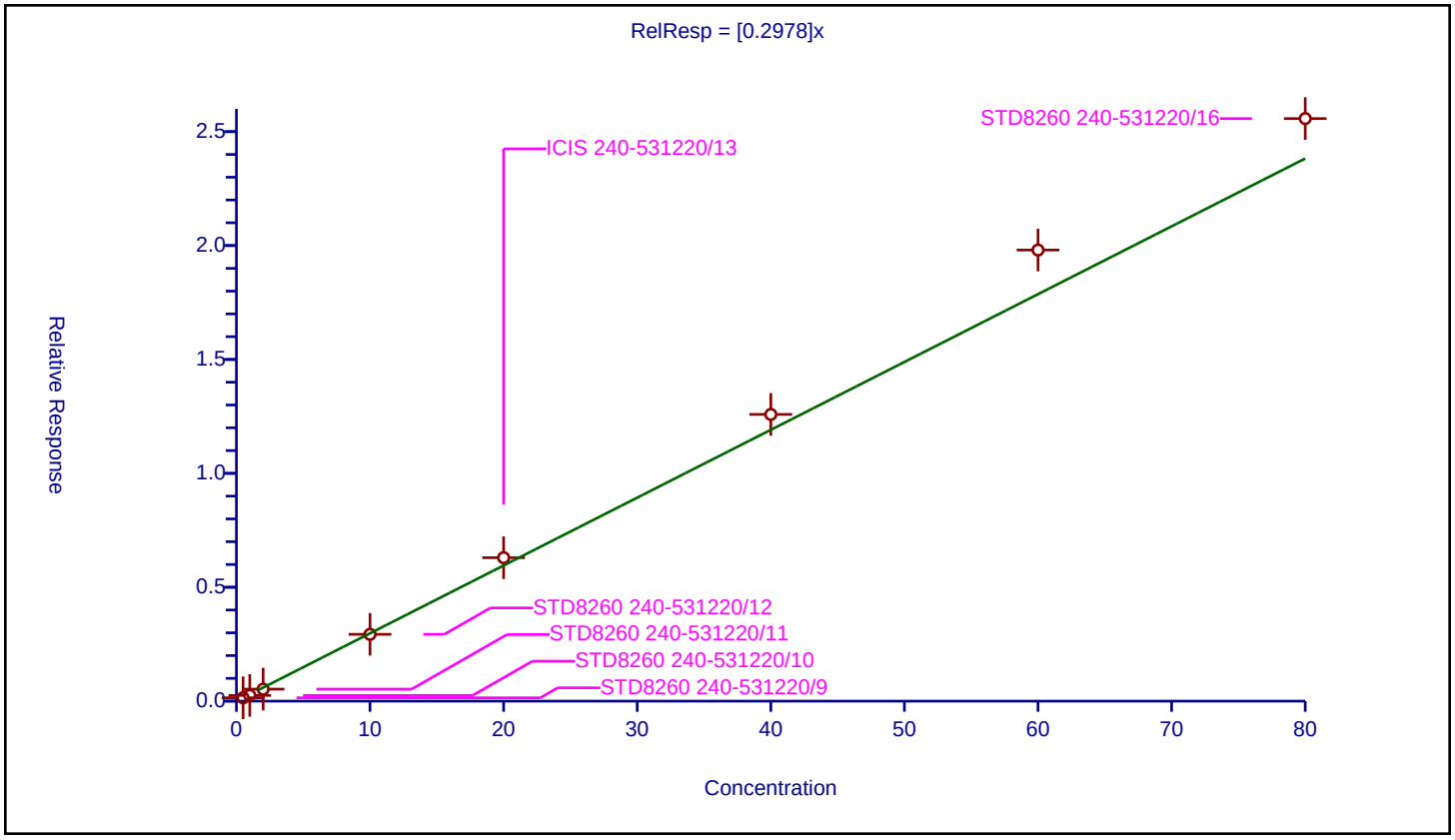
Curve Coefficients

Intercept:	0
Slope:	0.2978

Error Coefficients

Standard Error:	497000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.147195	20.0	665784.0	0.29439	Y
2	STD8260 240-531220/10	1.0	0.25164	20.0	729295.0	0.25164	Y
3	STD8260 240-531220/11	2.0	0.527172	20.0	709977.0	0.263586	Y
4	STD8260 240-531220/12	10.0	2.932827	20.0	734404.0	0.293283	Y
5	ICIS 240-531220/13	20.0	6.296737	20.0	738465.0	0.314837	Y
6	STD8260 240-531220/14	40.0	12.587202	20.0	761019.0	0.31468	Y
7	STD8260 240-531220/15	60.0	19.803638	20.0	737310.0	0.330061	Y
8	STD8260 240-531220/16	80.0	25.574917	20.0	743498.0	0.319686	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

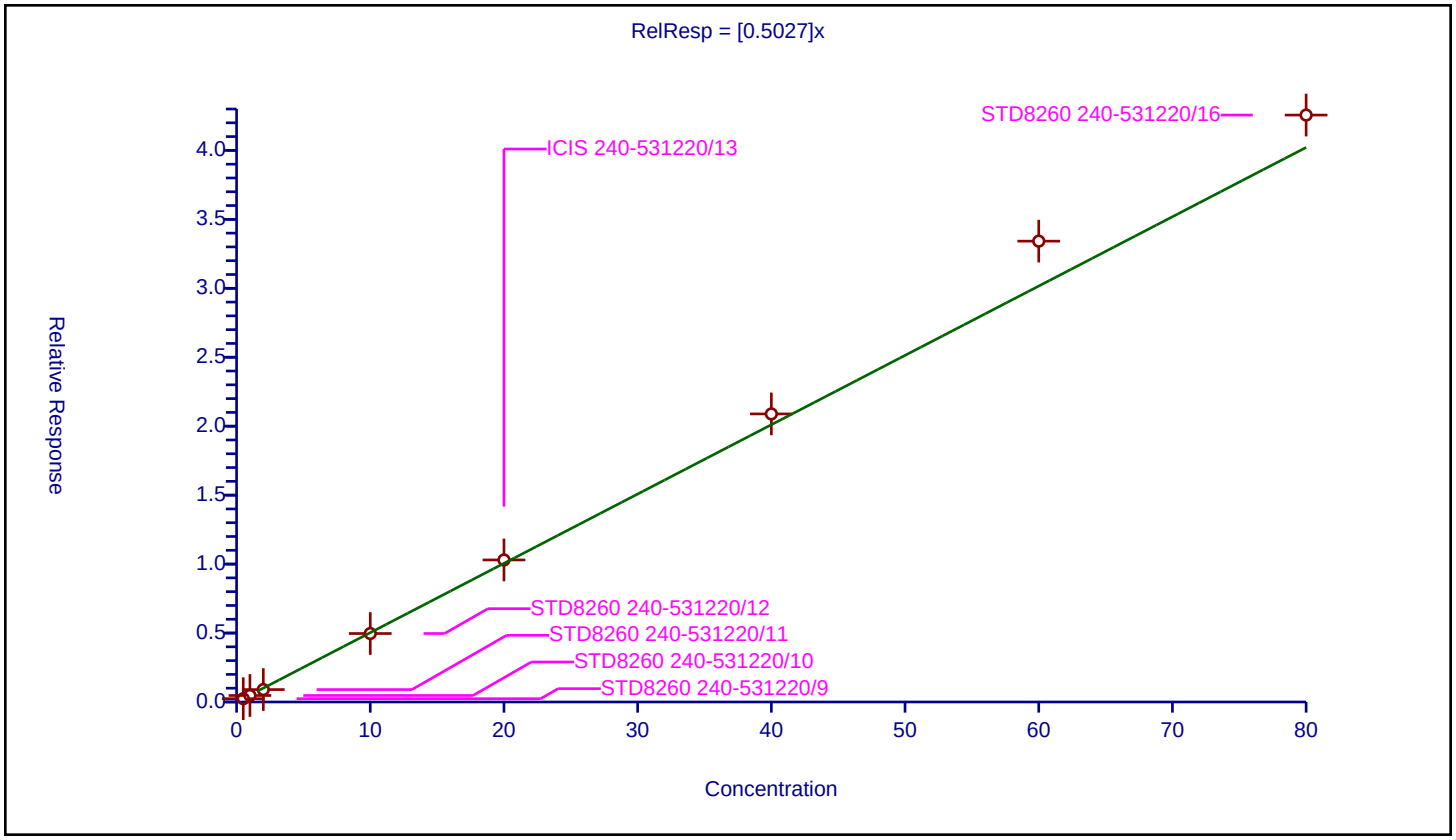
Curve Coefficients

Intercept:	0
Slope:	0.5027

Error Coefficients

Standard Error:	831000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.238726	20.0	665784.0	0.477452	Y
2	STD8260 240-531220/10	1.0	0.471716	20.0	729295.0	0.471716	Y
3	STD8260 240-531220/11	2.0	0.899297	20.0	709977.0	0.449648	Y
4	STD8260 240-531220/12	10.0	4.964189	20.0	734404.0	0.496419	Y
5	ICIS 240-531220/13	20.0	10.2995	20.0	738465.0	0.514975	Y
6	STD8260 240-531220/14	40.0	20.888756	20.0	761019.0	0.522219	Y
7	STD8260 240-531220/15	60.0	33.418969	20.0	737310.0	0.556983	Y
8	STD8260 240-531220/16	80.0	42.560195	20.0	743498.0	0.532002	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

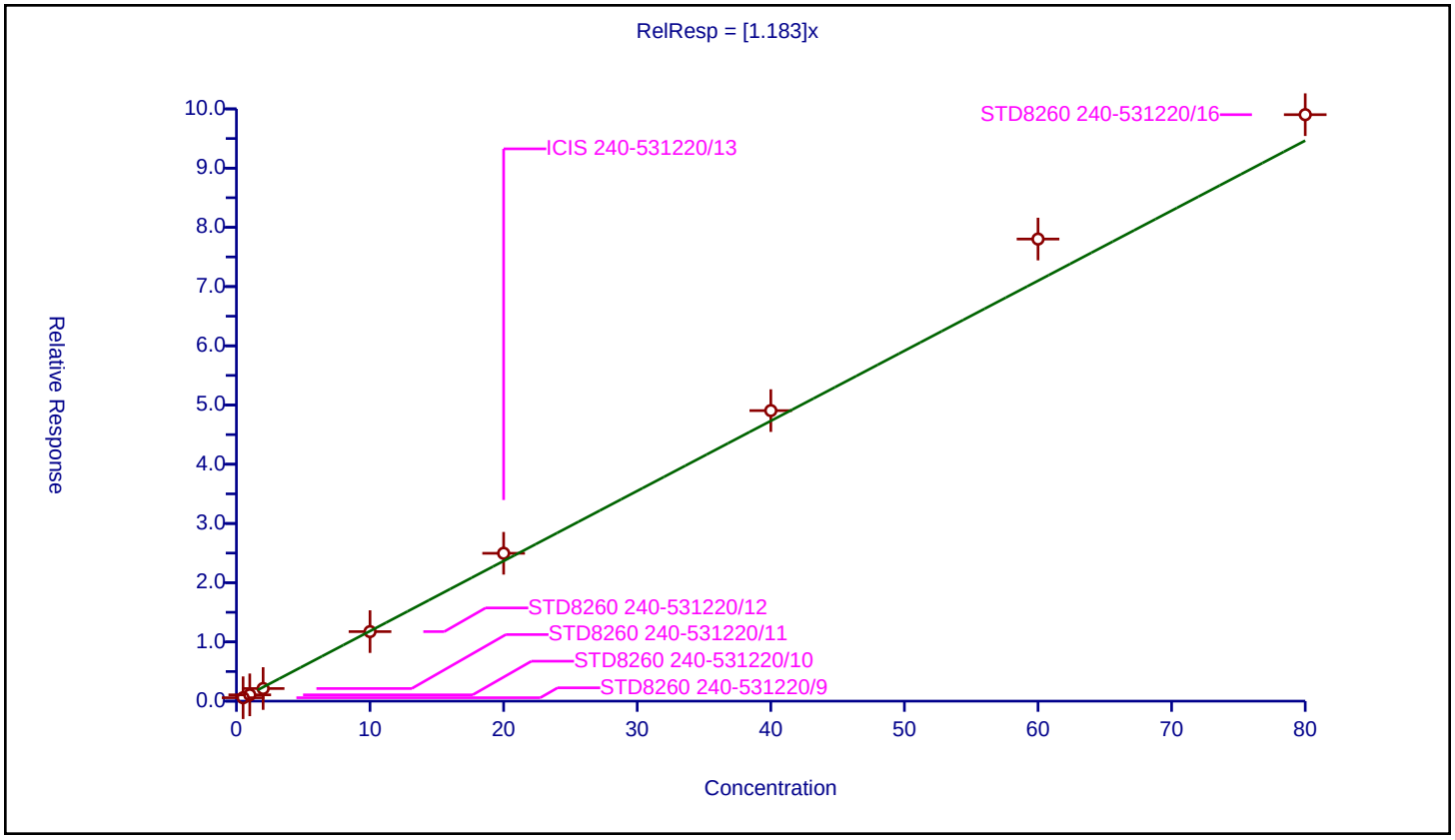
Curve Coefficients

Intercept:	0
Slope:	1.183

Error Coefficients

Standard Error:	1940000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.575592	20.0	665784.0	1.151184	Y
2	STD8260 240-531220/10	1.0	1.062478	20.0	729295.0	1.062478	Y
3	STD8260 240-531220/11	2.0	2.127815	20.0	709977.0	1.063908	Y
4	STD8260 240-531220/12	10.0	11.740513	20.0	734404.0	1.174051	Y
5	ICIS 240-531220/13	20.0	24.966952	20.0	738465.0	1.248348	Y
6	STD8260 240-531220/14	40.0	49.058486	20.0	761019.0	1.226462	Y
7	STD8260 240-531220/15	60.0	78.021565	20.0	737310.0	1.300359	Y
8	STD8260 240-531220/16	80.0	99.02305	20.0	743498.0	1.237788	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

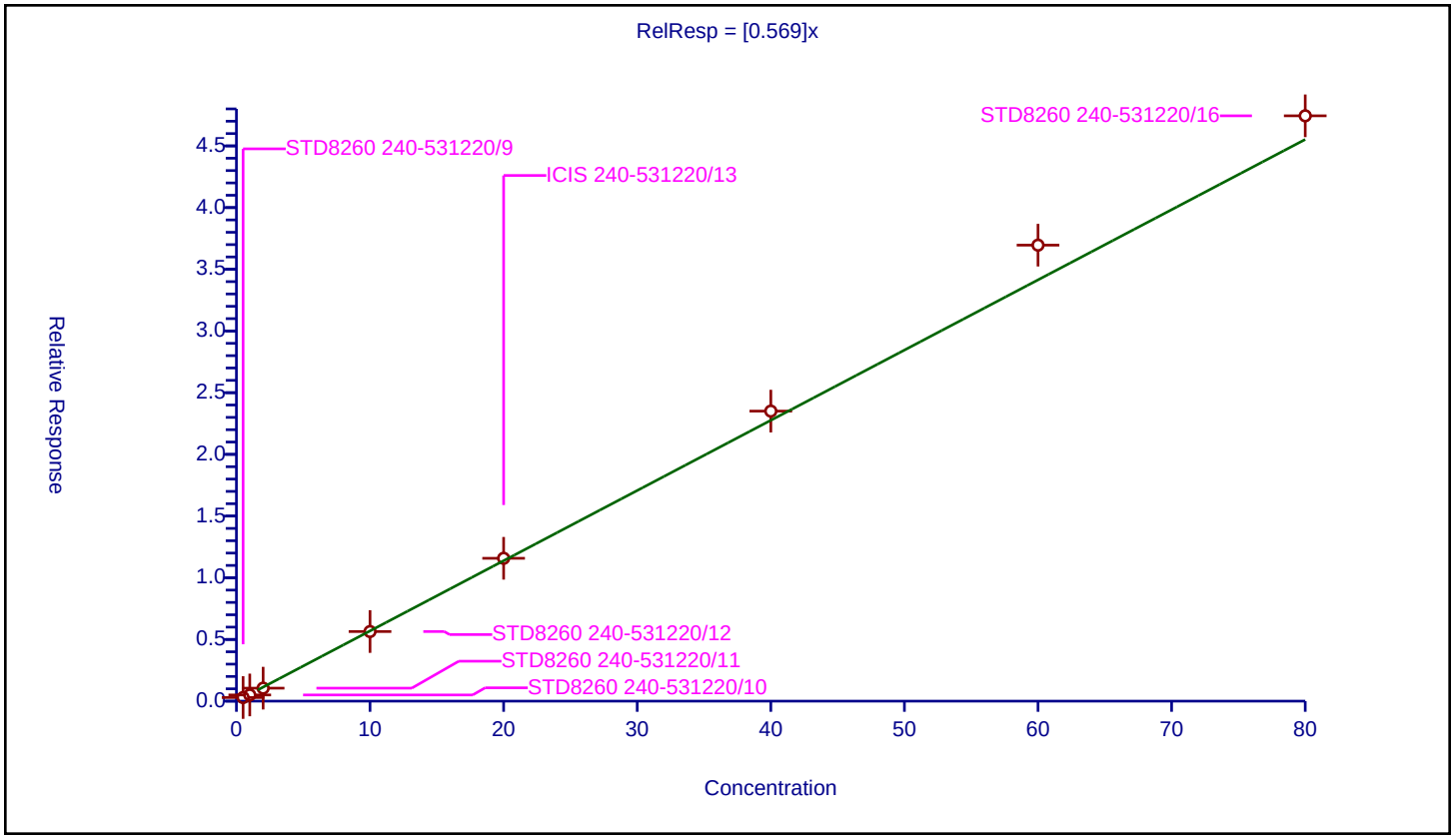
Curve Coefficients

Intercept:	0
Slope:	0.569

Error Coefficients

Standard Error:	925000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.292587	20.0	665784.0	0.585175	Y
2	STD8260 240-531220/10	1.0	0.501498	20.0	729295.0	0.501498	Y
3	STD8260 240-531220/11	2.0	1.05195	20.0	709977.0	0.525975	Y
4	STD8260 240-531220/12	10.0	5.640492	20.0	734404.0	0.564049	Y
5	ICIS 240-531220/13	20.0	11.577664	20.0	738465.0	0.578883	Y
6	STD8260 240-531220/14	40.0	23.505221	20.0	761019.0	0.587631	Y
7	STD8260 240-531220/15	60.0	36.956287	20.0	737310.0	0.615938	Y
8	STD8260 240-531220/16	80.0	47.438621	20.0	743498.0	0.592983	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

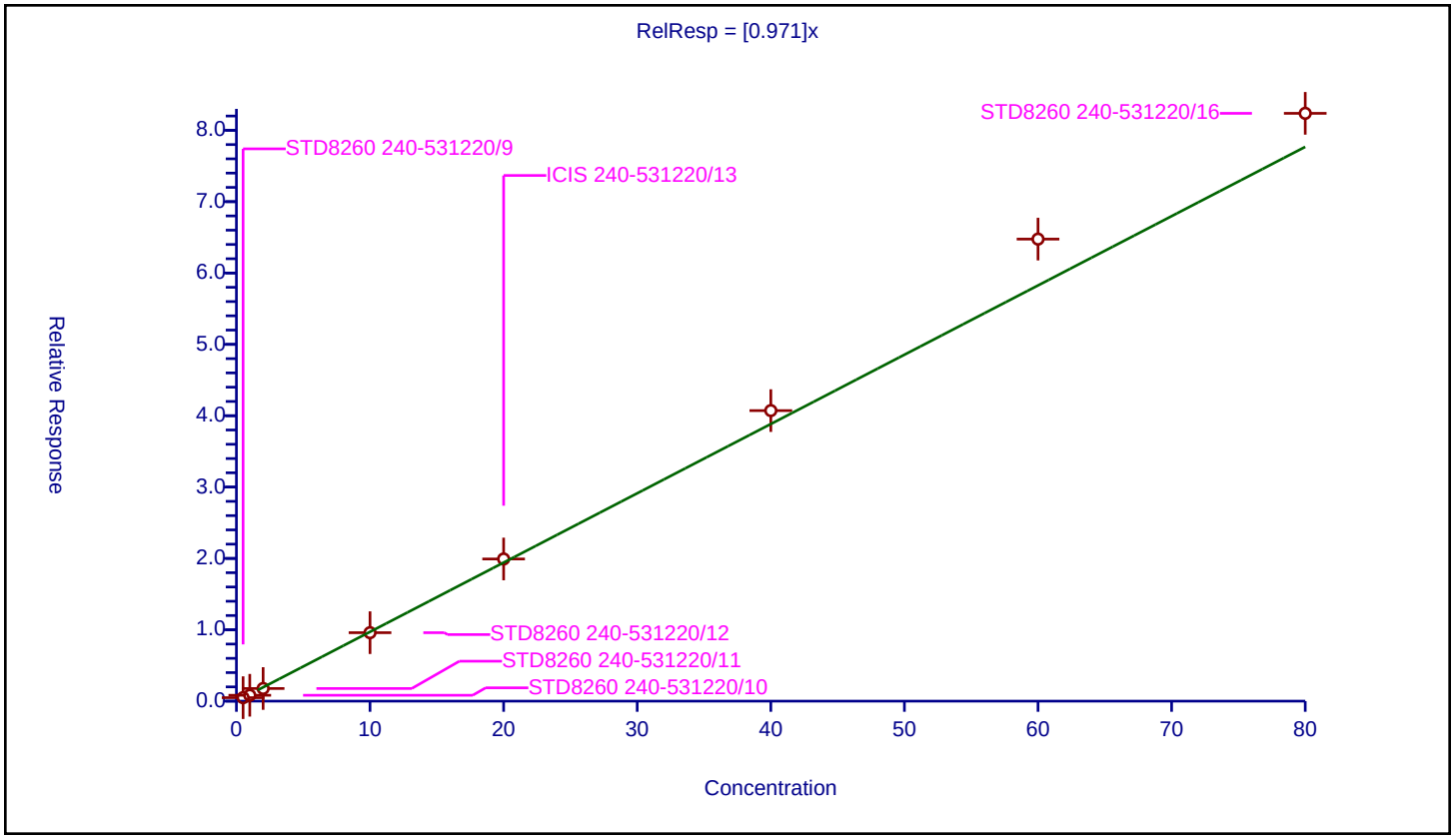
Curve Coefficients

Intercept:	0
Slope:	0.971

Error Coefficients

Standard Error:	1610000
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 240-531220/9	0.5	0.488687	20.0	665784.0	0.977374	Y
2	STD8260 240-531220/10	1.0	0.821506	20.0	729295.0	0.821506	Y
3	STD8260 240-531220/11	2.0	1.772649	20.0	709977.0	0.886324	Y
4	STD8260 240-531220/12	10.0	9.594528	20.0	734404.0	0.959453	Y
5	ICIS 240-531220/13	20.0	19.924465	20.0	738465.0	0.996223	Y
6	STD8260 240-531220/14	40.0	40.717512	20.0	761019.0	1.017938	Y
7	STD8260 240-531220/15	60.0	64.749563	20.0	737310.0	1.079159	Y
8	STD8260 240-531220/16	80.0	82.376388	20.0	743498.0	1.029705	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

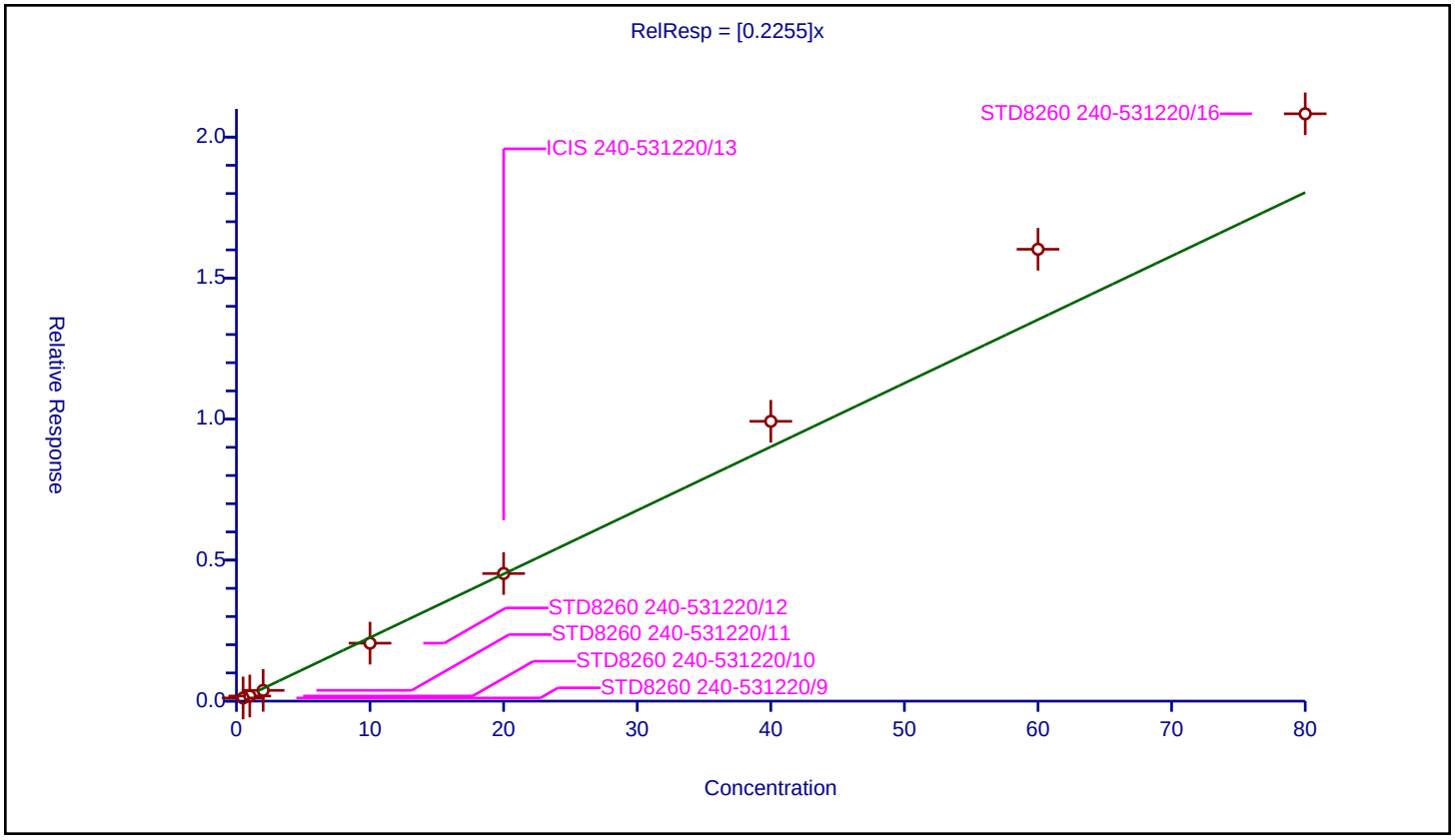
Curve Coefficients

Intercept:	0
Slope:	0.2255

Error Coefficients

Standard Error:	401000
Relative Standard Error:	14.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.111808	20.0	665784.0	0.223616	Y
2	STD8260 240-531220/10	1.0	0.181874	20.0	729295.0	0.181874	Y
3	STD8260 240-531220/11	2.0	0.381815	20.0	709977.0	0.190908	Y
4	STD8260 240-531220/12	10.0	2.055926	20.0	734404.0	0.205593	Y
5	ICIS 240-531220/13	20.0	4.524602	20.0	738465.0	0.22623	Y
6	STD8260 240-531220/14	40.0	9.922091	20.0	761019.0	0.248052	Y
7	STD8260 240-531220/15	60.0	16.022704	20.0	737310.0	0.267045	Y
8	STD8260 240-531220/16	80.0	20.826203	20.0	743498.0	0.260328	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

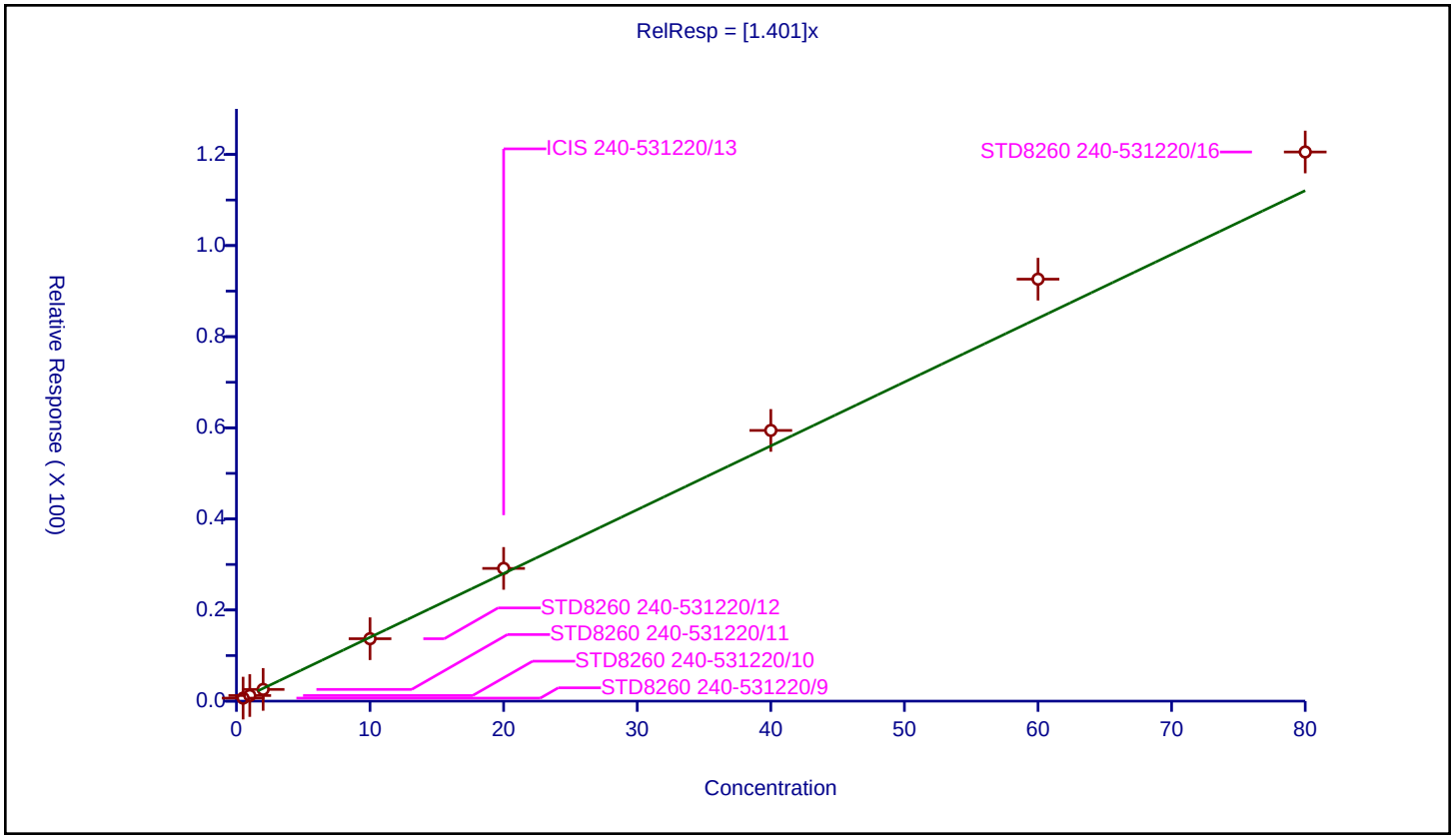
Curve Coefficients

Intercept:	0
Slope:	1.401

Error Coefficients

Standard Error:	2340000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.661506	20.0	665784.0	1.323012	Y
2	STD8260 240-531220/10	1.0	1.232368	20.0	729295.0	1.232368	Y
3	STD8260 240-531220/11	2.0	2.576168	20.0	709977.0	1.288084	Y
4	STD8260 240-531220/12	10.0	13.701478	20.0	734404.0	1.370148	Y
5	ICIS 240-531220/13	20.0	29.131834	20.0	738465.0	1.456592	Y
6	STD8260 240-531220/14	40.0	59.421959	20.0	761019.0	1.485549	Y
7	STD8260 240-531220/15	60.0	92.626575	20.0	737310.0	1.543776	Y
8	STD8260 240-531220/16	80.0	120.541279	20.0	743498.0	1.506766	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

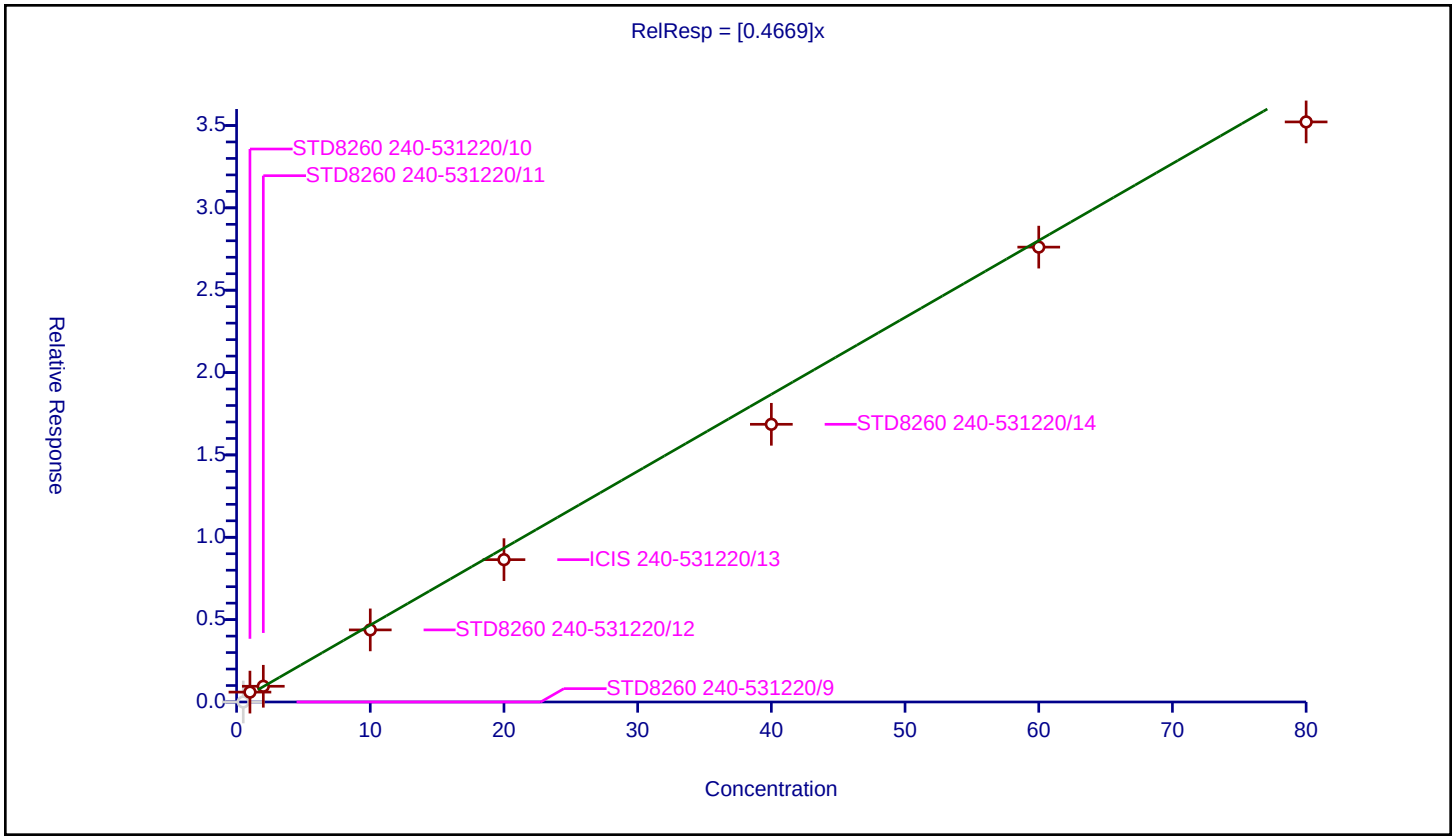
Curve Coefficients

Intercept:	0
Slope:	0.4669

Error Coefficients

Standard Error:	741000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.0	20.0	665784.0	0.0	N
2	STD8260 240-531220/10	1.0	0.599812	20.0	729295.0	0.599812	Y
3	STD8260 240-531220/11	2.0	0.954087	20.0	709977.0	0.477044	Y
4	STD8260 240-531220/12	10.0	4.377046	20.0	734404.0	0.437705	Y
5	ICIS 240-531220/13	20.0	8.641412	20.0	738465.0	0.432071	Y
6	STD8260 240-531220/14	40.0	16.858502	20.0	761019.0	0.421463	Y
7	STD8260 240-531220/15	60.0	27.615793	20.0	737310.0	0.460263	Y
8	STD8260 240-531220/16	80.0	35.215804	20.0	743498.0	0.440198	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

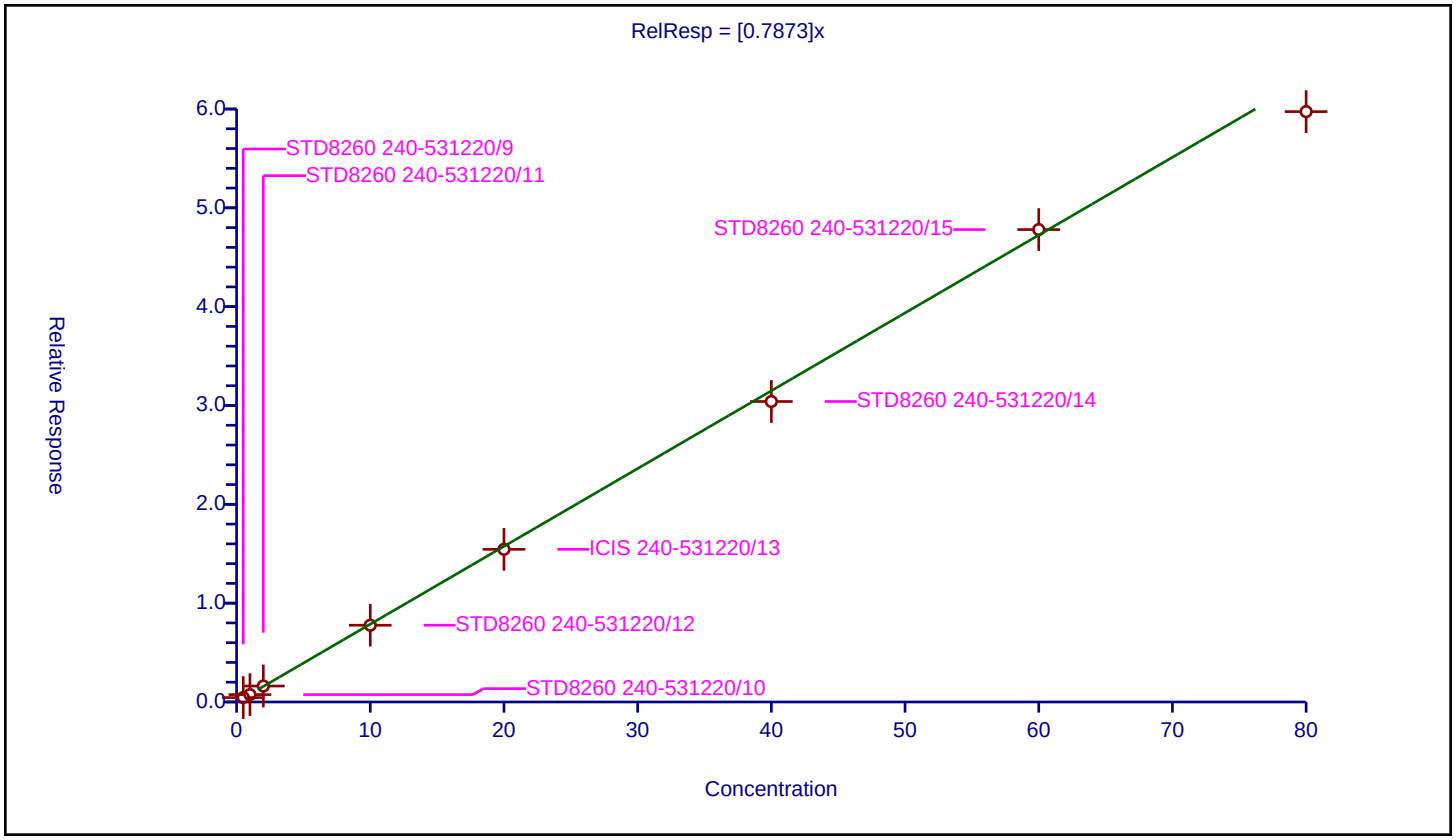
Curve Coefficients

Intercept:	0
Slope:	0.7873

Error Coefficients

Standard Error:	577000
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 240-531220/9	0.5	0.445495	20.0	292439.0	0.890989	Y
2	STD8260 240-531220/10	1.0	0.747091	20.0	331633.0	0.747091	Y
3	STD8260 240-531220/11	2.0	1.615976	20.0	325636.0	0.807988	Y
4	STD8260 240-531220/12	10.0	7.767535	20.0	344843.0	0.776753	Y
5	ICIS 240-531220/13	20.0	15.445398	20.0	356681.0	0.77227	Y
6	STD8260 240-531220/14	40.0	30.406477	20.0	372985.0	0.760162	Y
7	STD8260 240-531220/15	60.0	47.801892	20.0	359177.0	0.796698	Y
8	STD8260 240-531220/16	80.0	59.736771	20.0	363030.0	0.74671	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

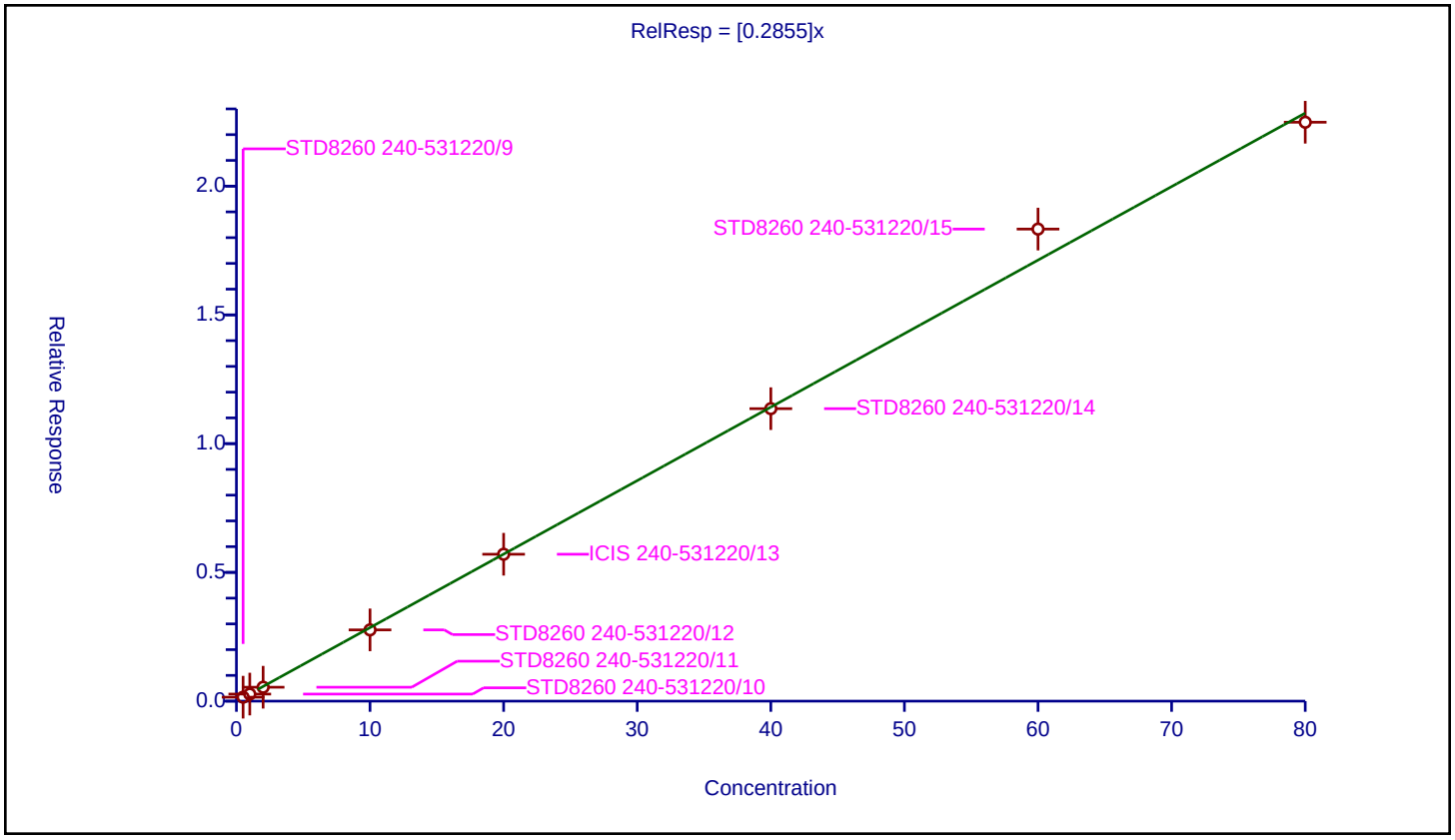
Curve Coefficients

Intercept:	0
Slope:	0.2855

Error Coefficients

Standard Error:	218000
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	STD8260 240-531220/9	0.5	0.153331	20.0	292439.0	0.306662	Y
2	STD8260 240-531220/10	1.0	0.274158	20.0	331633.0	0.274158	Y
3	STD8260 240-531220/11	2.0	0.540665	20.0	325636.0	0.270333	Y
4	STD8260 240-531220/12	10.0	2.767404	20.0	344843.0	0.27674	Y
5	ICIS 240-531220/13	20.0	5.705098	20.0	356681.0	0.285255	Y
6	STD8260 240-531220/14	40.0	11.358419	20.0	372985.0	0.28396	Y
7	STD8260 240-531220/15	60.0	18.331742	20.0	359177.0	0.305529	Y
8	STD8260 240-531220/16	80.0	22.482054	20.0	363030.0	0.281026	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

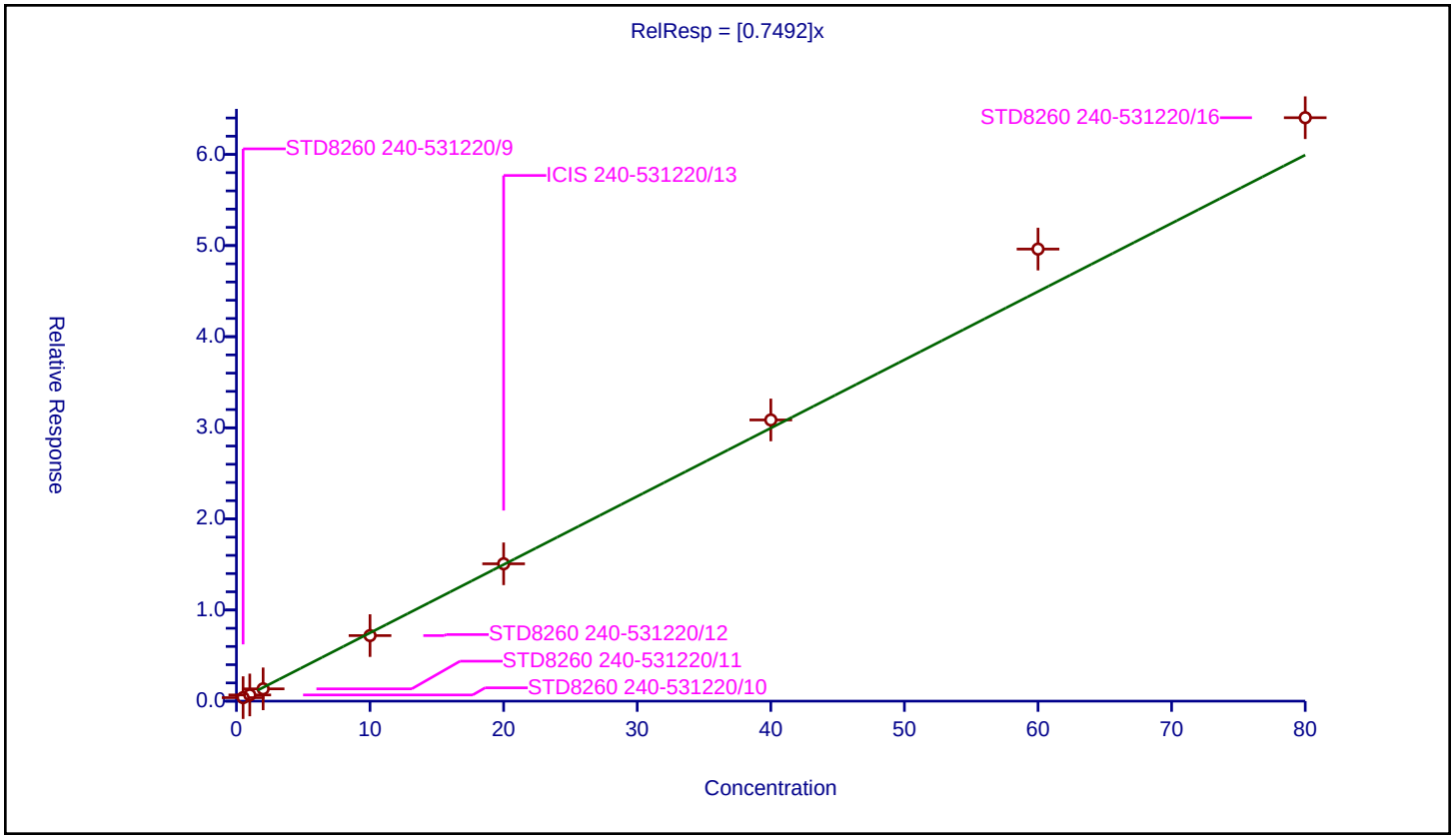
Curve Coefficients

Intercept:	0
Slope:	0.7492

Error Coefficients

Standard Error:	605000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.383601	20.0	292439.0	0.767203	Y
2	STD8260 240-531220/10	1.0	0.680511	20.0	331633.0	0.680511	Y
3	STD8260 240-531220/11	2.0	1.347947	20.0	325636.0	0.673973	Y
4	STD8260 240-531220/12	10.0	7.195274	20.0	344843.0	0.719527	Y
5	ICIS 240-531220/13	20.0	15.073301	20.0	356681.0	0.753665	Y
6	STD8260 240-531220/14	40.0	30.859901	20.0	372985.0	0.771498	Y
7	STD8260 240-531220/15	60.0	49.613143	20.0	359177.0	0.826886	Y
8	STD8260 240-531220/16	80.0	64.033441	20.0	363030.0	0.800418	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

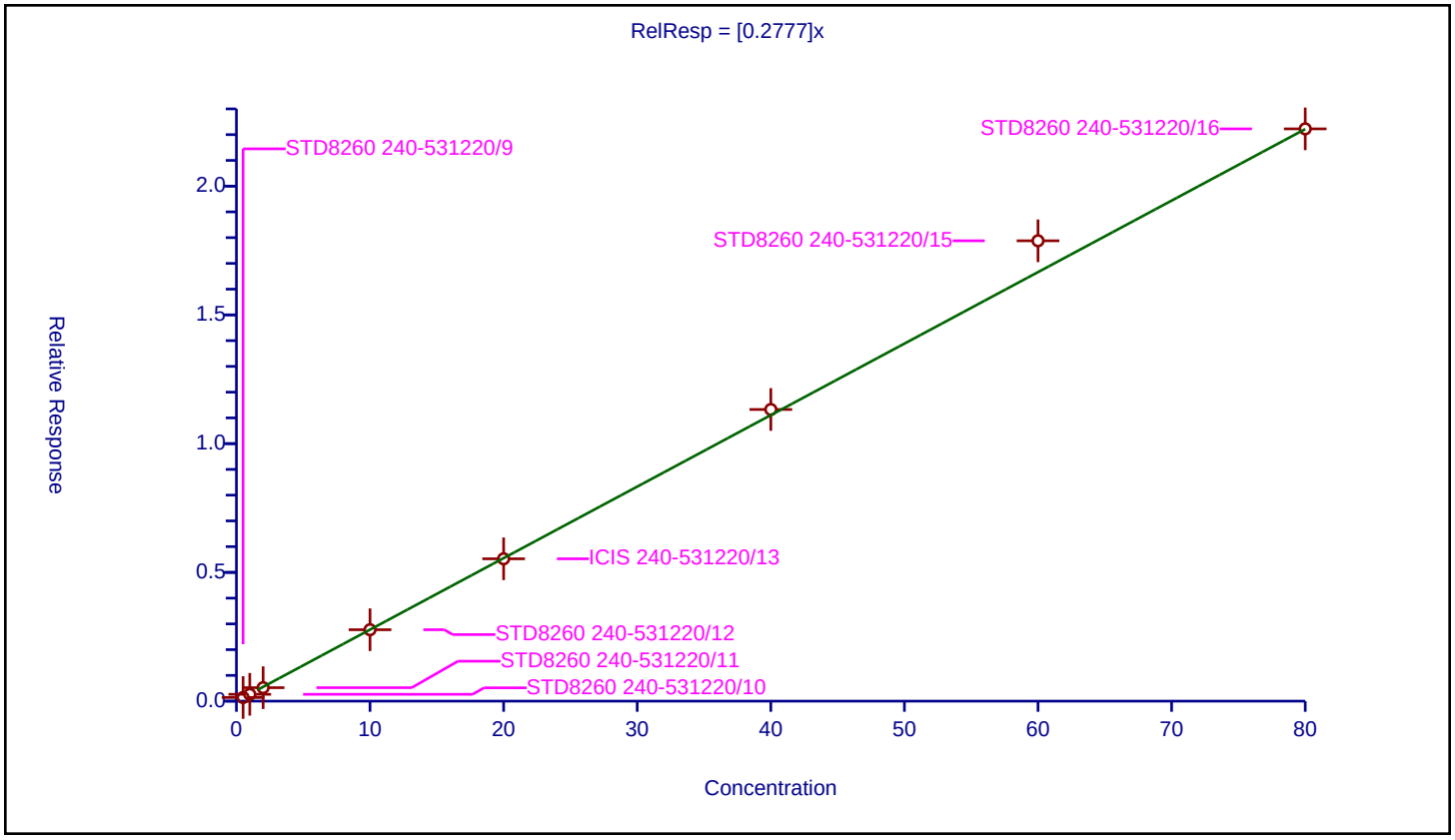
Curve Coefficients

Intercept:	0
Slope:	0.2777

Error Coefficients

Standard Error:	215000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.140884	20.0	292439.0	0.281768	Y
2	STD8260 240-531220/10	1.0	0.265534	20.0	331633.0	0.265534	Y
3	STD8260 240-531220/11	2.0	0.522977	20.0	325636.0	0.261488	Y
4	STD8260 240-531220/12	10.0	2.77332	20.0	344843.0	0.277332	Y
5	ICIS 240-531220/13	20.0	5.527909	20.0	356681.0	0.276395	Y
6	STD8260 240-531220/14	40.0	11.326943	20.0	372985.0	0.283174	Y
7	STD8260 240-531220/15	60.0	17.877871	20.0	359177.0	0.297965	Y
8	STD8260 240-531220/16	80.0	22.224444	20.0	363030.0	0.277806	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

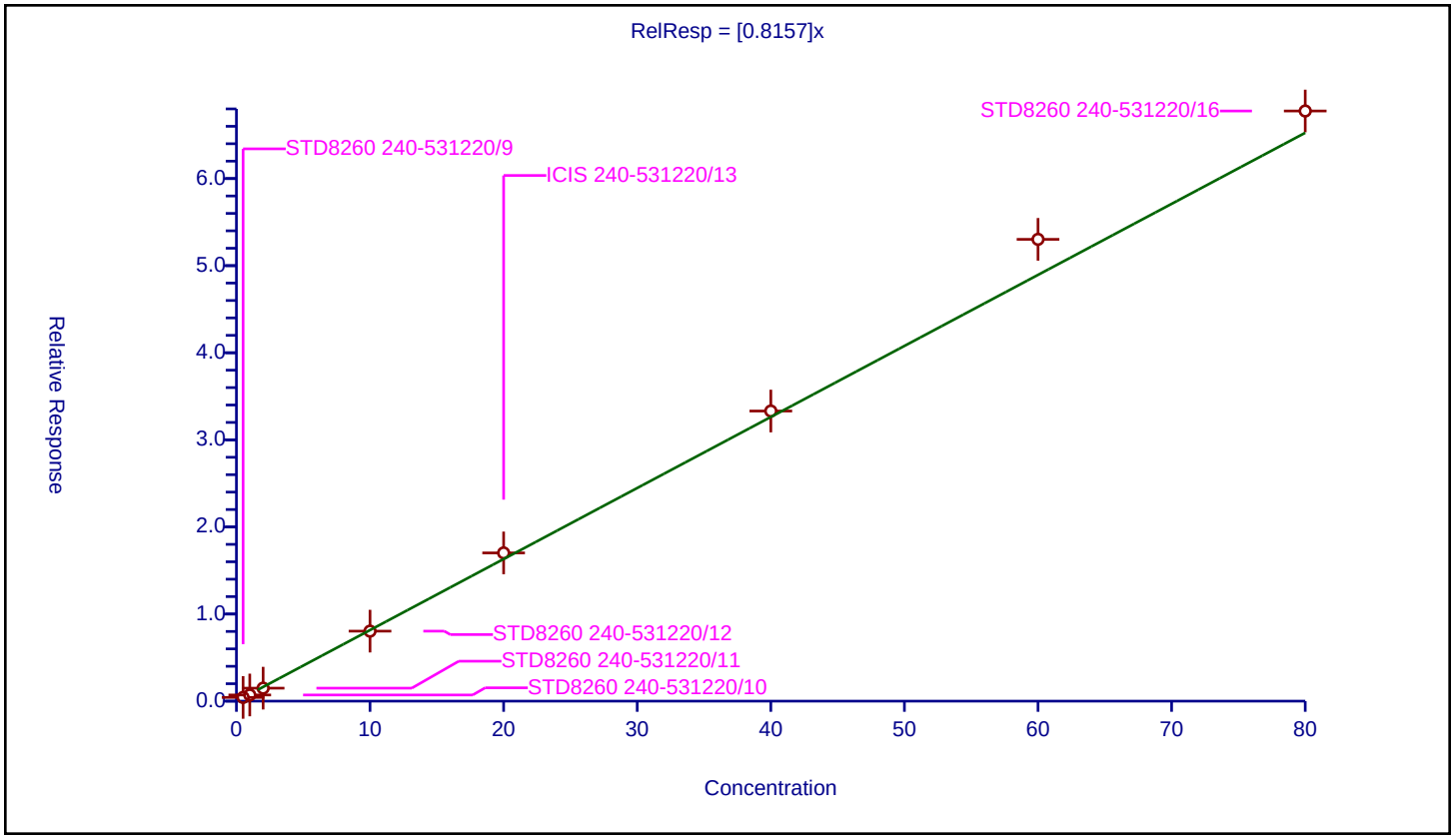
Curve Coefficients

Intercept:	0
Slope:	0.8157

Error Coefficients

Standard Error:	646000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.426756	20.0	292439.0	0.853511	Y
2	STD8260 240-531220/10	1.0	0.708072	20.0	331633.0	0.708072	Y
3	STD8260 240-531220/11	2.0	1.491051	20.0	325636.0	0.745526	Y
4	STD8260 240-531220/12	10.0	8.038673	20.0	344843.0	0.803867	Y
5	ICIS 240-531220/13	20.0	17.018961	20.0	356681.0	0.850948	Y
6	STD8260 240-531220/14	40.0	33.309275	20.0	372985.0	0.832732	Y
7	STD8260 240-531220/15	60.0	53.021881	20.0	359177.0	0.883698	Y
8	STD8260 240-531220/16	80.0	67.757981	20.0	363030.0	0.846975	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

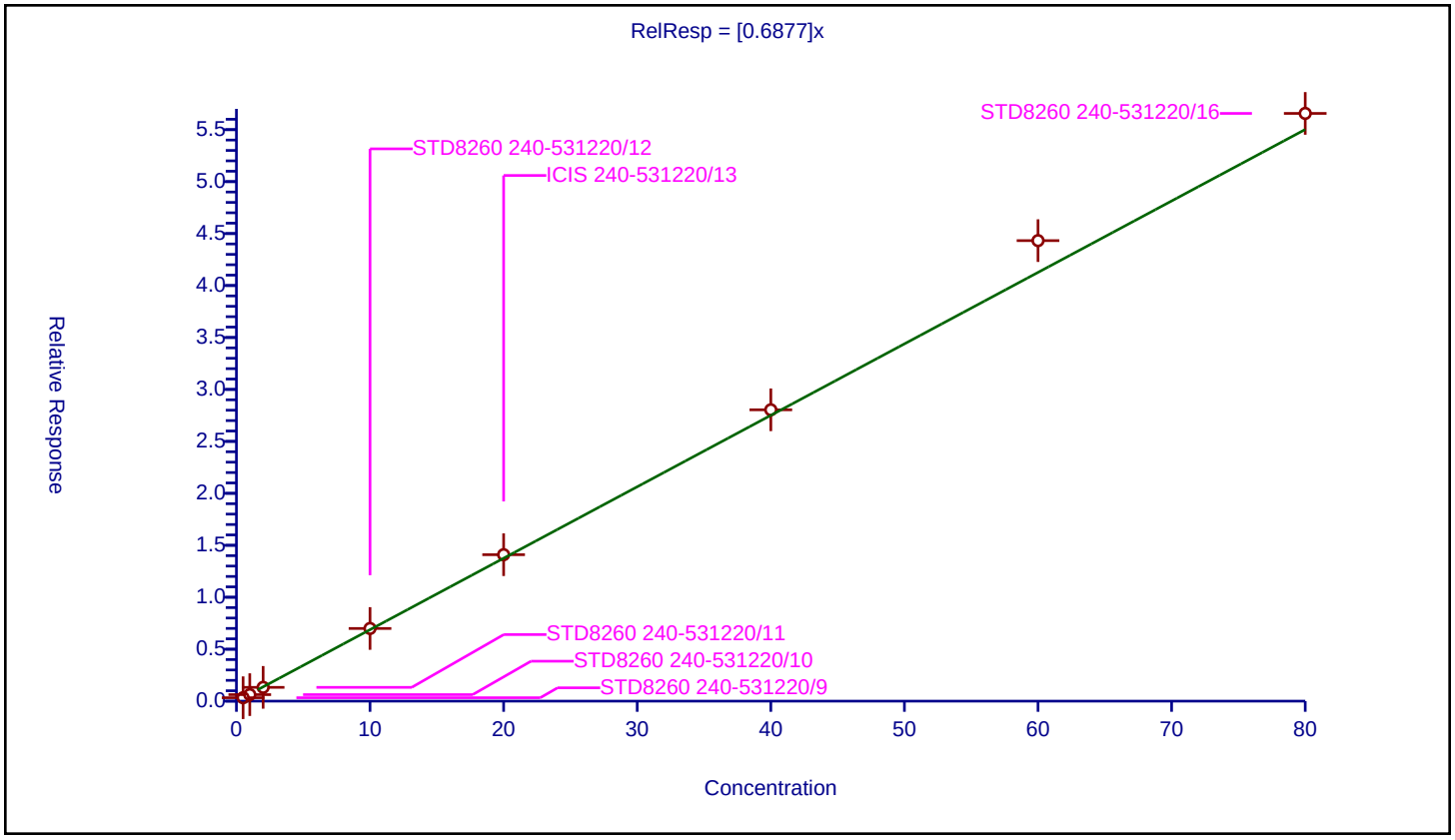
Curve Coefficients

Intercept:	0
Slope:	0.6877

Error Coefficients

Standard Error:	540000
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 240-531220/9	0.5	0.329915	20.0	292439.0	0.65983	Y
2	STD8260 240-531220/10	1.0	0.62726	20.0	331633.0	0.62726	Y
3	STD8260 240-531220/11	2.0	1.32688	20.0	325636.0	0.66344	Y
4	STD8260 240-531220/12	10.0	6.995299	20.0	344843.0	0.69953	Y
5	ICIS 240-531220/13	20.0	14.095677	20.0	356681.0	0.704784	Y
6	STD8260 240-531220/14	40.0	28.038822	20.0	372985.0	0.700971	Y
7	STD8260 240-531220/15	60.0	44.321658	20.0	359177.0	0.738694	Y
8	STD8260 240-531220/16	80.0	56.565463	20.0	363030.0	0.707068	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

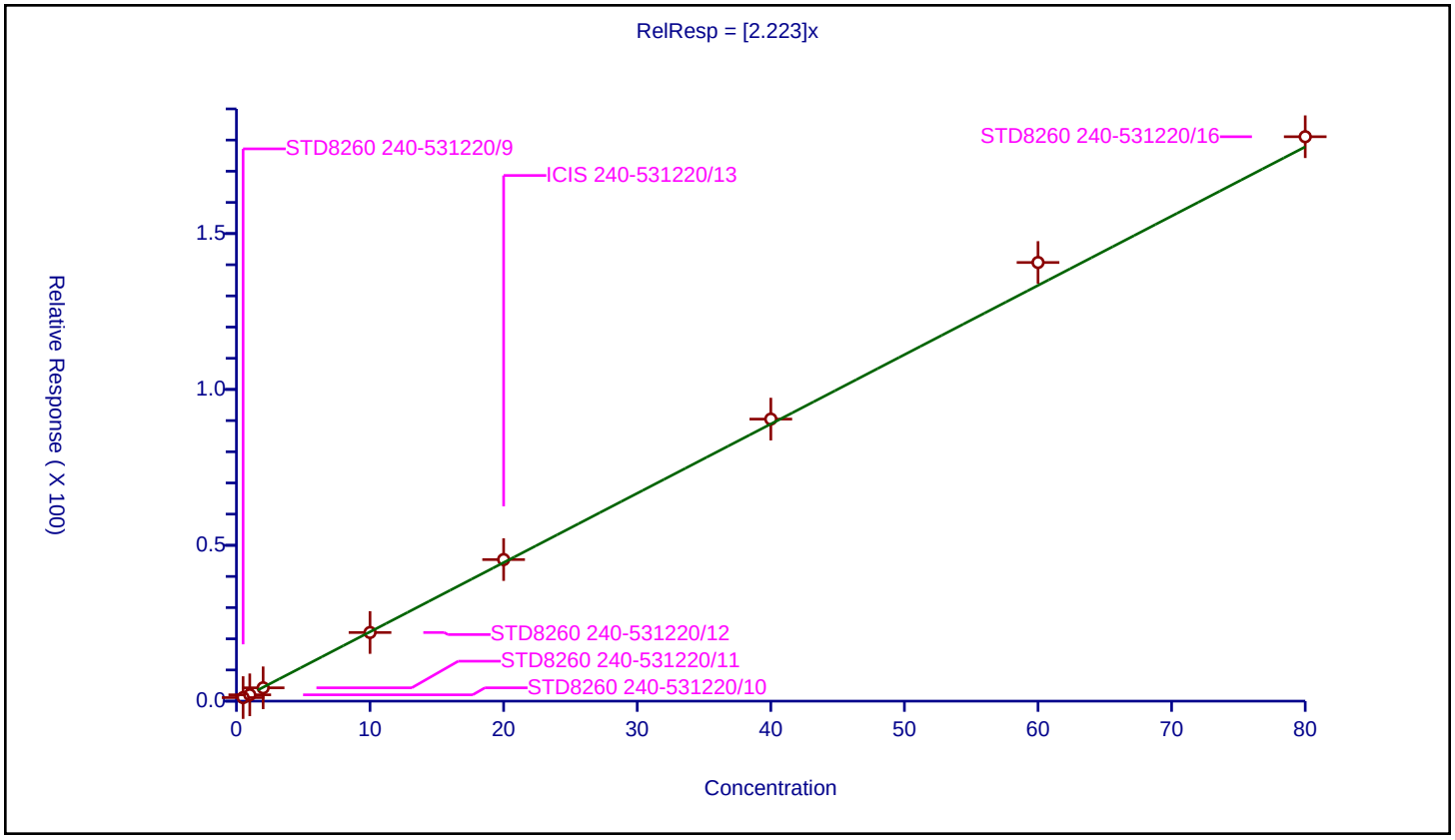
Curve Coefficients

Intercept:	0
Slope:	2.223

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	1.137605	20.0	292439.0	2.27521	Y
2	STD8260 240-531220/10	1.0	2.026939	20.0	331633.0	2.026939	Y
3	STD8260 240-531220/11	2.0	4.272808	20.0	325636.0	2.136404	Y
4	STD8260 240-531220/12	10.0	22.022196	20.0	344843.0	2.20222	Y
5	ICIS 240-531220/13	20.0	45.422324	20.0	356681.0	2.271116	Y
6	STD8260 240-531220/14	40.0	90.483317	20.0	372985.0	2.262083	Y
7	STD8260 240-531220/15	60.0	140.724323	20.0	359177.0	2.345405	Y
8	STD8260 240-531220/16	80.0	181.068176	20.0	363030.0	2.263352	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

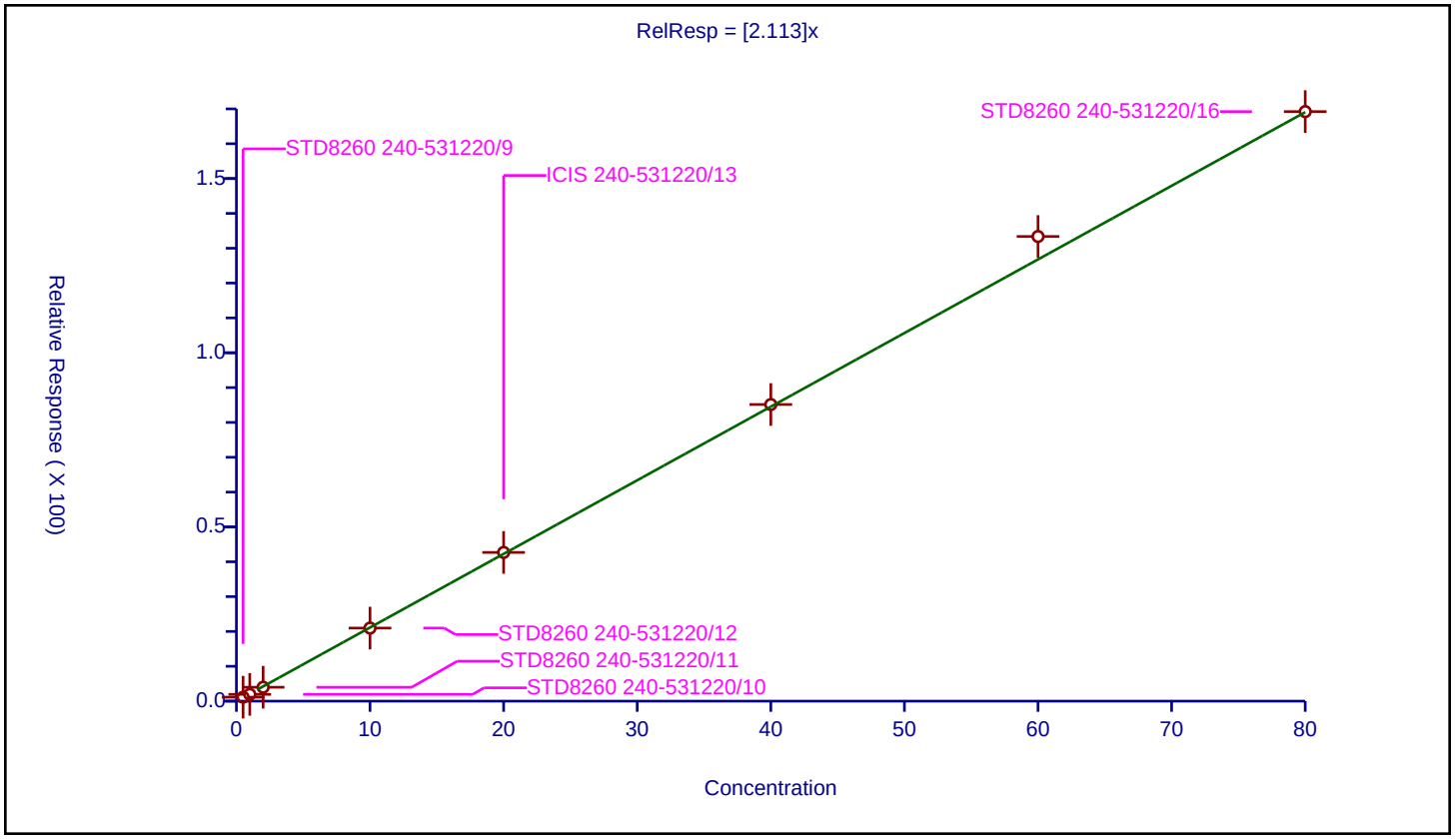
Curve Coefficients

Intercept:	0
Slope:	2.113

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	1.132749	20.0	292439.0	2.265498	Y
2	STD8260 240-531220/10	1.0	1.947032	20.0	331633.0	1.947032	Y
3	STD8260 240-531220/11	2.0	3.988871	20.0	325636.0	1.994436	Y
4	STD8260 240-531220/12	10.0	20.970471	20.0	344843.0	2.097047	Y
5	ICIS 240-531220/13	20.0	42.689518	20.0	356681.0	2.134476	Y
6	STD8260 240-531220/14	40.0	85.149483	20.0	372985.0	2.128737	Y
7	STD8260 240-531220/15	60.0	133.371569	20.0	359177.0	2.222859	Y
8	STD8260 240-531220/16	80.0	169.216924	20.0	363030.0	2.115212	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

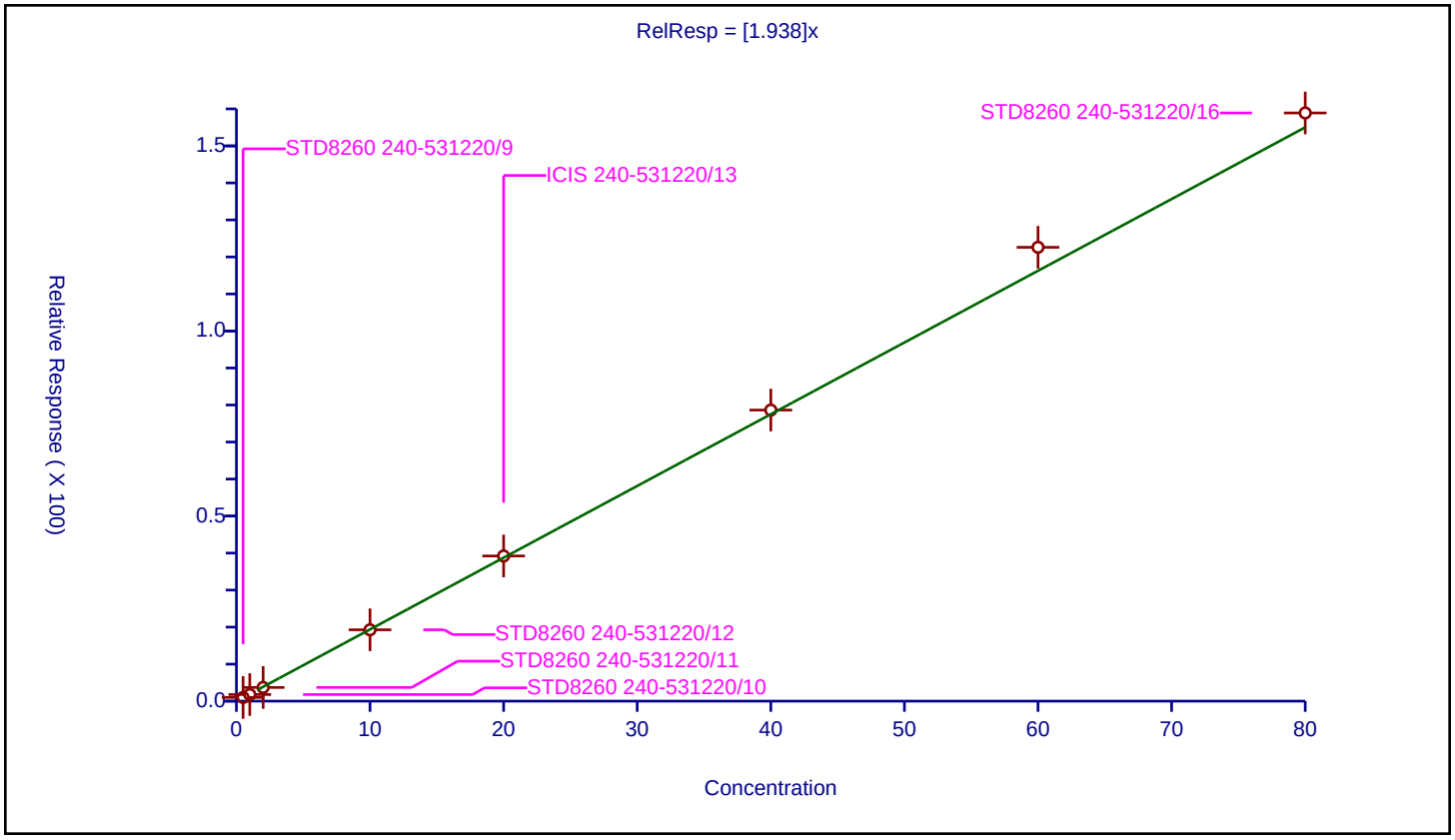
Curve Coefficients

Intercept:	0
Slope:	1.938

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.994874	20.0	292439.0	1.989748	Y
2	STD8260 240-531220/10	1.0	1.779015	20.0	331633.0	1.779015	Y
3	STD8260 240-531220/11	2.0	3.698178	20.0	325636.0	1.849089	Y
4	STD8260 240-531220/12	10.0	19.269291	20.0	344843.0	1.926929	Y
5	ICIS 240-531220/13	20.0	39.219975	20.0	356681.0	1.960999	Y
6	STD8260 240-531220/14	40.0	78.631312	20.0	372985.0	1.965783	Y
7	STD8260 240-531220/15	60.0	122.60902	20.0	359177.0	2.043484	Y
8	STD8260 240-531220/16	80.0	158.902074	20.0	363030.0	1.986276	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

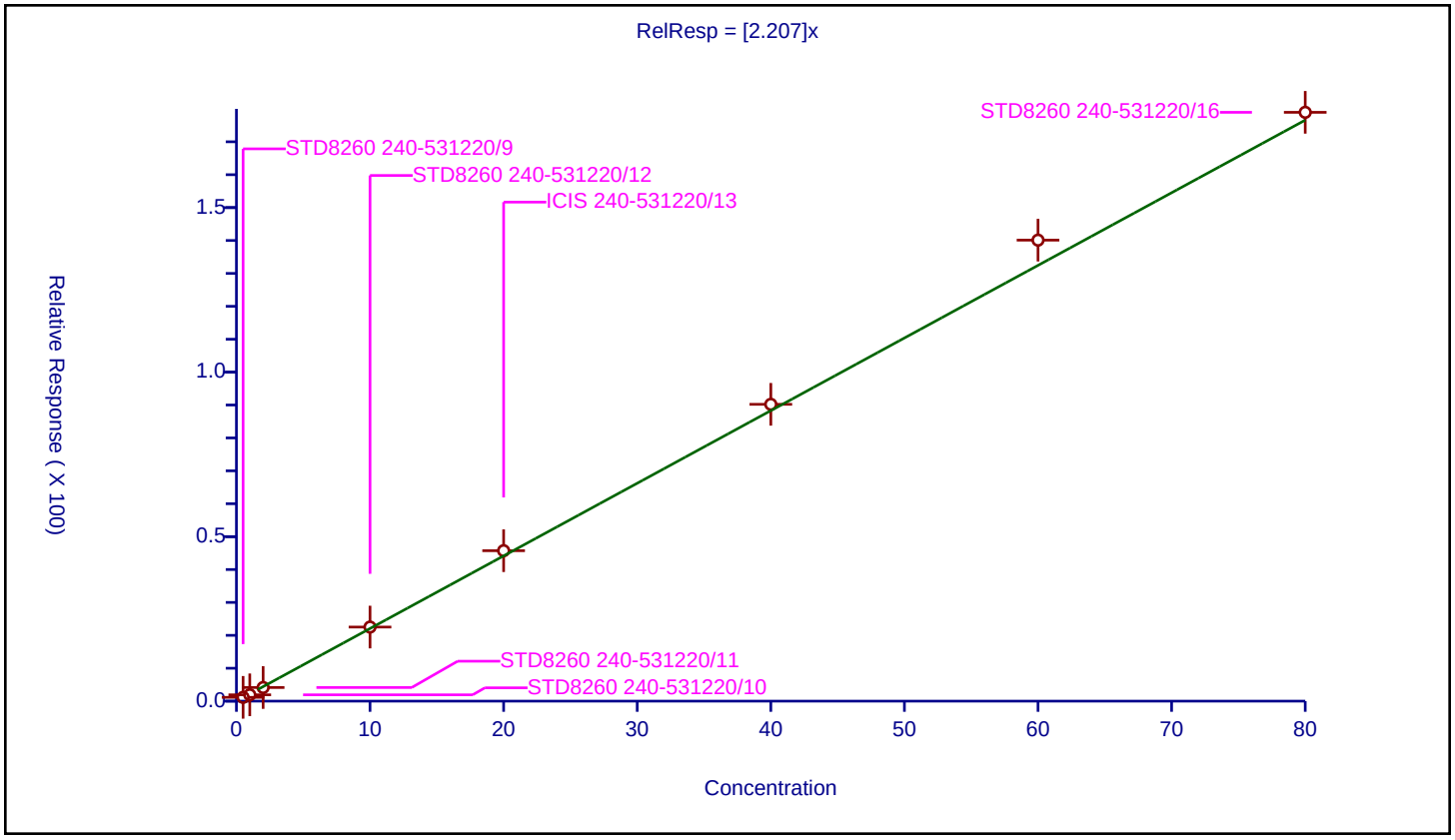
Curve Coefficients

Intercept:	0
Slope:	2.207

Error Coefficients

Standard Error:	1710000
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 240-531220/9	0.5	1.15183	20.0	292439.0	2.30366	Y
2	STD8260 240-531220/10	1.0	1.919532	20.0	331633.0	1.919532	Y
3	STD8260 240-531220/11	2.0	4.140636	20.0	325636.0	2.070318	Y
4	STD8260 240-531220/12	10.0	22.517609	20.0	344843.0	2.251761	Y
5	ICIS 240-531220/13	20.0	45.721022	20.0	356681.0	2.286051	Y
6	STD8260 240-531220/14	40.0	90.210706	20.0	372985.0	2.255268	Y
7	STD8260 240-531220/15	60.0	140.110586	20.0	359177.0	2.335176	Y
8	STD8260 240-531220/16	80.0	178.952263	20.0	363030.0	2.236903	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

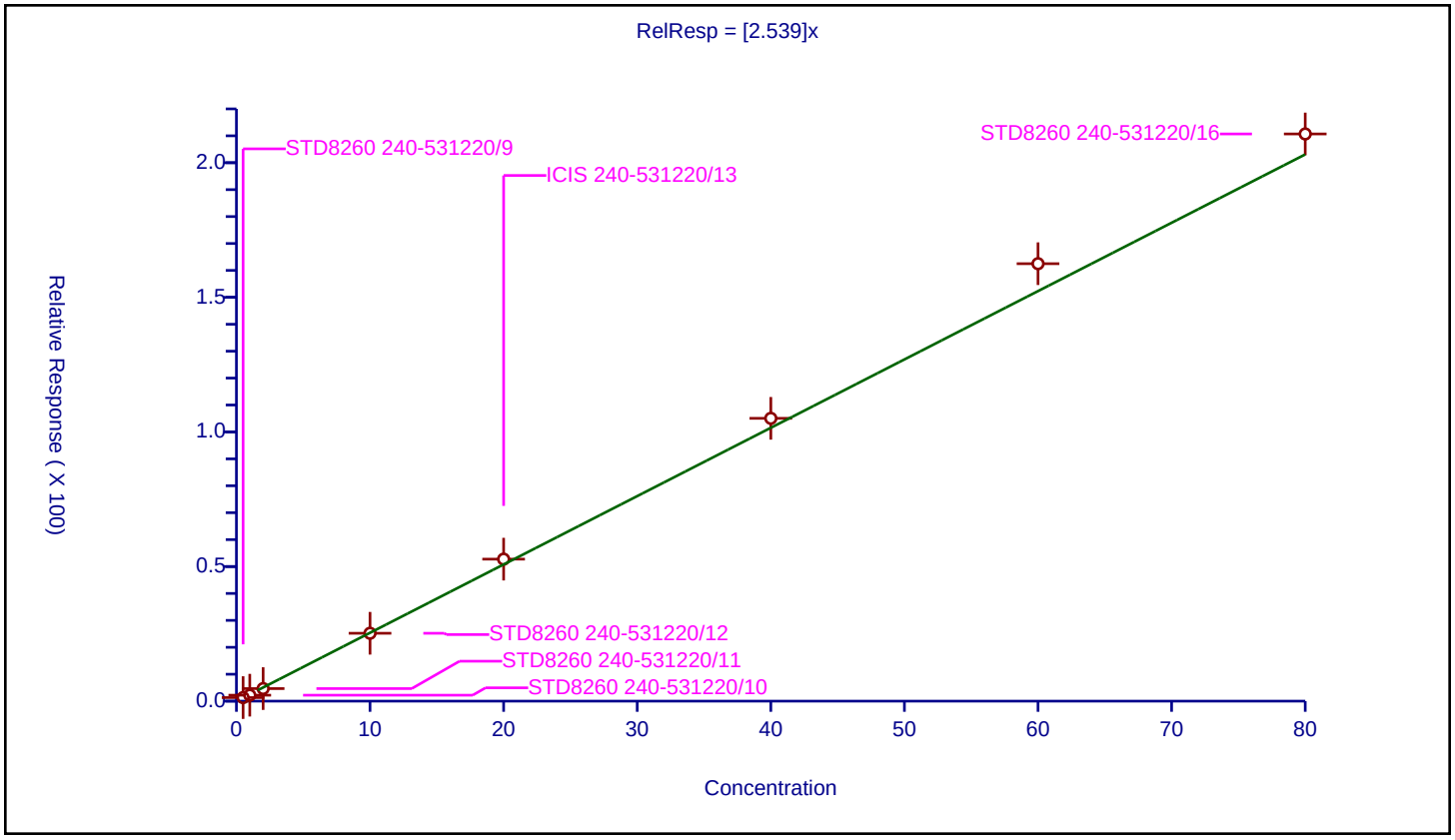
Curve Coefficients

Intercept:	0
Slope:	2.539

Error Coefficients

Standard Error:	2000000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	1.320207	20.0	292439.0	2.640414	Y
2	STD8260 240-531220/10	1.0	2.210154	20.0	331633.0	2.210154	Y
3	STD8260 240-531220/11	2.0	4.661217	20.0	325636.0	2.330608	Y
4	STD8260 240-531220/12	10.0	25.215301	20.0	344843.0	2.52153	Y
5	ICIS 240-531220/13	20.0	52.74646	20.0	356681.0	2.637323	Y
6	STD8260 240-531220/14	40.0	105.052107	20.0	372985.0	2.626303	Y
7	STD8260 240-531220/15	60.0	162.498712	20.0	359177.0	2.708312	Y
8	STD8260 240-531220/16	80.0	210.685563	20.0	363030.0	2.63357	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

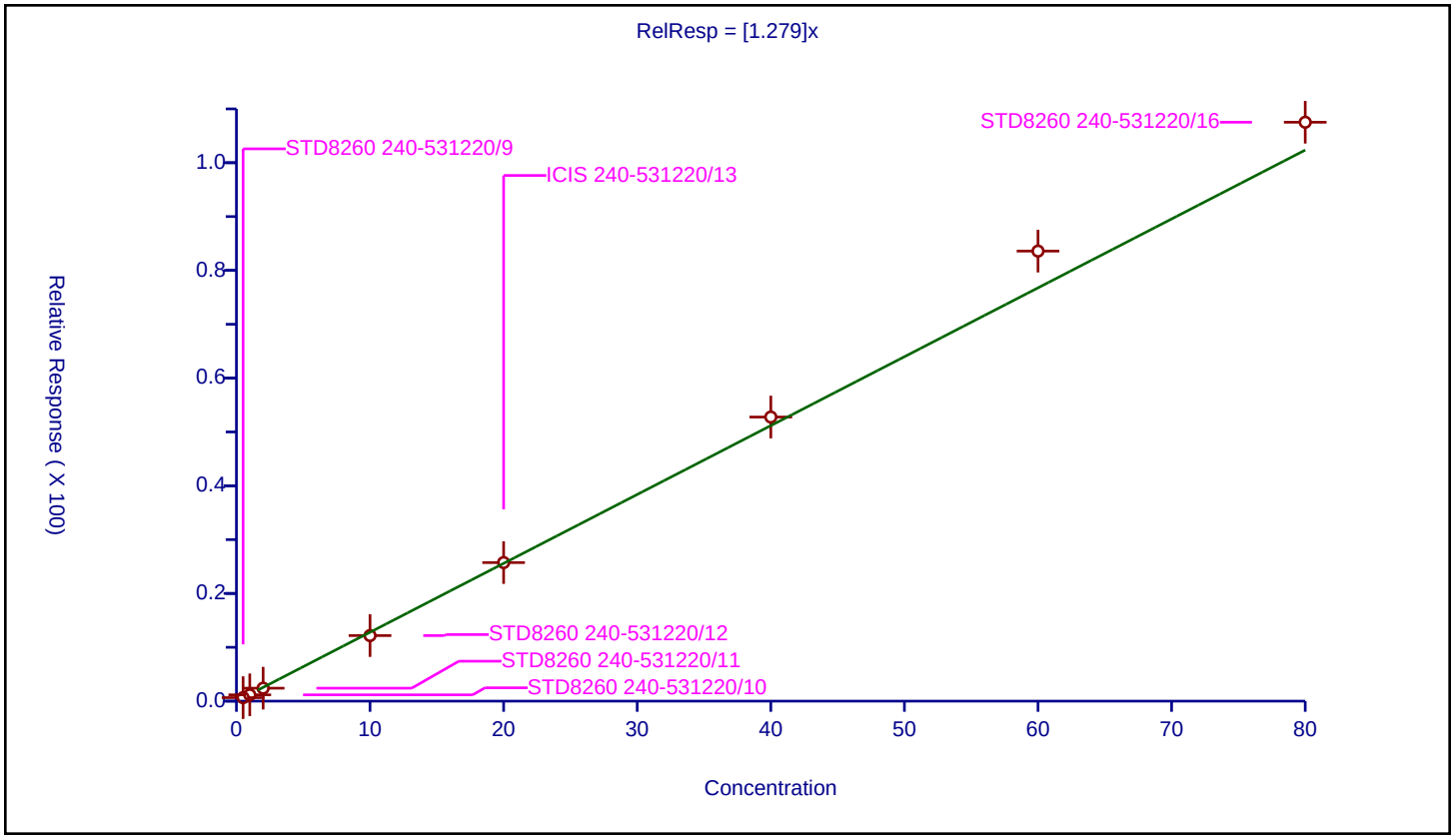
Curve Coefficients

Intercept:	0
Slope:	1.279

Error Coefficients

Standard Error:	1020000
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 240-531220/9	0.5	0.651555	20.0	292439.0	1.303109	Y
2	STD8260 240-531220/10	1.0	1.168581	20.0	331633.0	1.168581	Y
3	STD8260 240-531220/11	2.0	2.40471	20.0	325636.0	1.202355	Y
4	STD8260 240-531220/12	10.0	12.178992	20.0	344843.0	1.217899	Y
5	ICIS 240-531220/13	20.0	25.734928	20.0	356681.0	1.286746	Y
6	STD8260 240-531220/14	40.0	52.766948	20.0	372985.0	1.319174	Y
7	STD8260 240-531220/15	60.0	83.586867	20.0	359177.0	1.393114	Y
8	STD8260 240-531220/16	80.0	107.522904	20.0	363030.0	1.344036	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

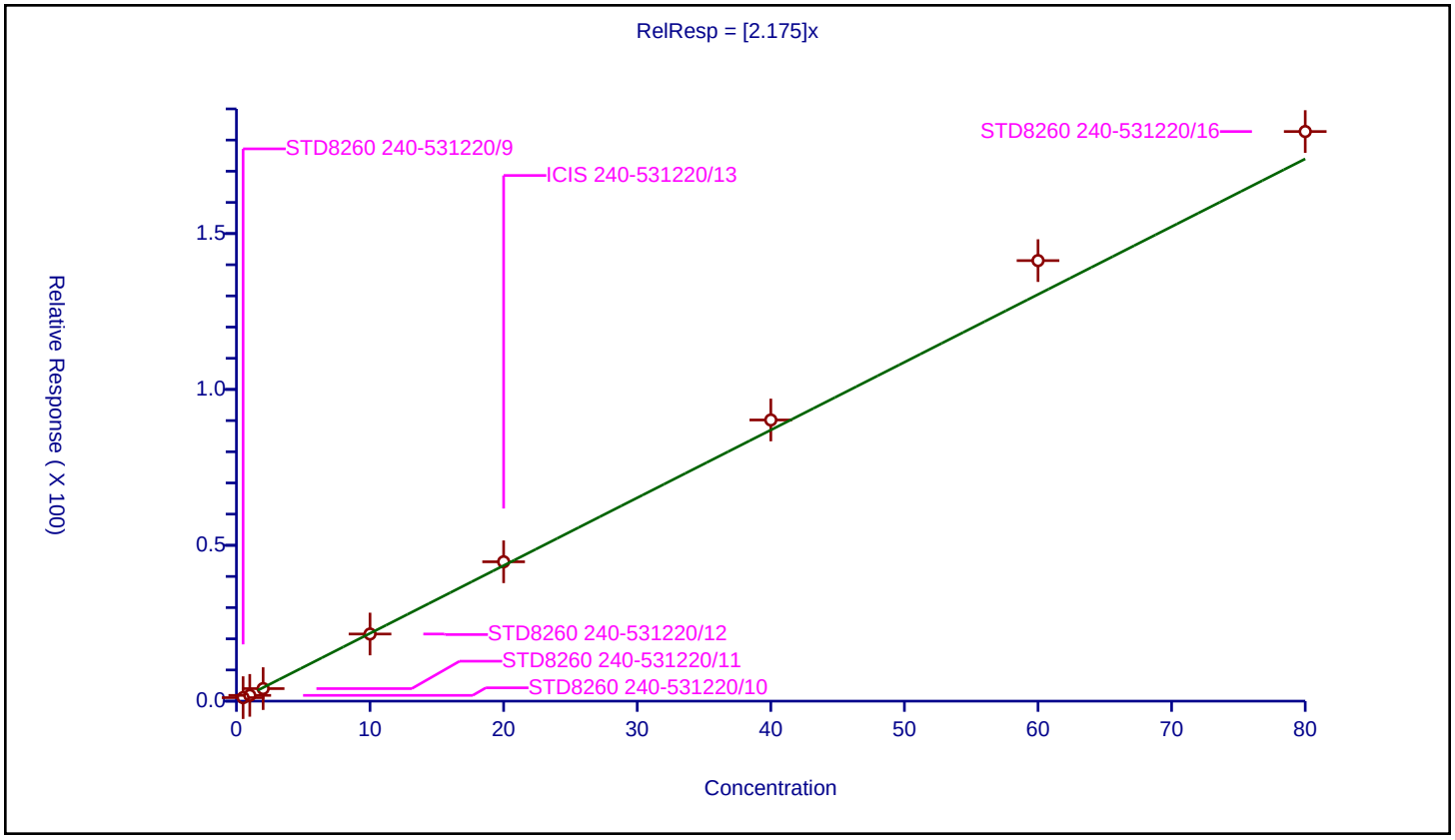
Curve Coefficients

Intercept:	0
Slope:	2.175

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	1.124132	20.0	292439.0	2.248264	Y
2	STD8260 240-531220/10	1.0	1.853736	20.0	331633.0	1.853736	Y
3	STD8260 240-531220/11	2.0	4.020624	20.0	325636.0	2.010312	Y
4	STD8260 240-531220/12	10.0	21.538207	20.0	344843.0	2.153821	Y
5	ICIS 240-531220/13	20.0	44.709755	20.0	356681.0	2.235488	Y
6	STD8260 240-531220/14	40.0	90.200035	20.0	372985.0	2.255001	Y
7	STD8260 240-531220/15	60.0	141.330041	20.0	359177.0	2.355501	Y
8	STD8260 240-531220/16	80.0	182.733383	20.0	363030.0	2.284167	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

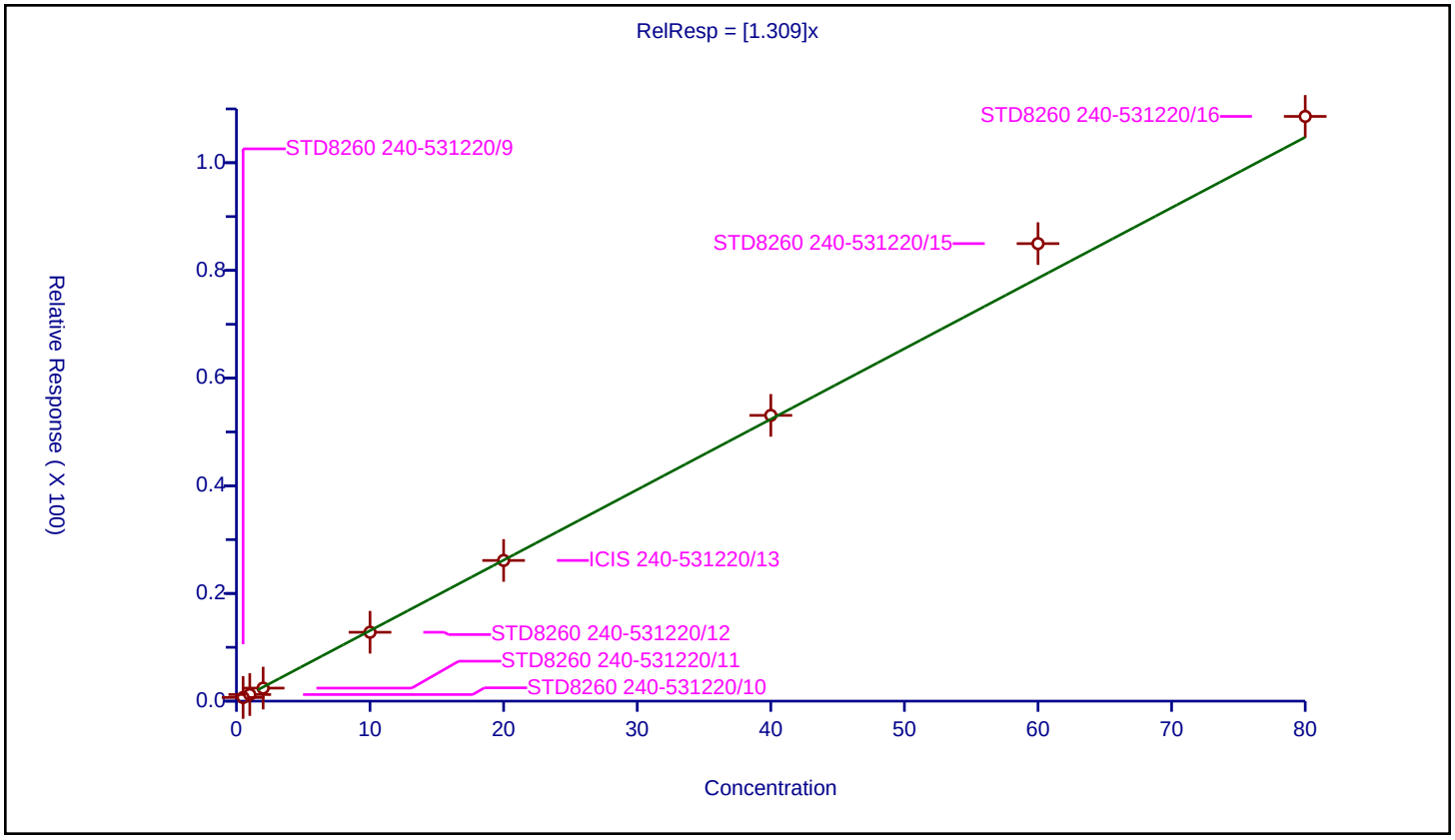
Curve Coefficients

Intercept:	0
Slope:	1.309

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.676175	20.0	292439.0	1.35235	Y
2	STD8260 240-531220/10	1.0	1.222918	20.0	331633.0	1.222918	Y
3	STD8260 240-531220/11	2.0	2.423626	20.0	325636.0	1.211813	Y
4	STD8260 240-531220/12	10.0	12.797128	20.0	344843.0	1.279713	Y
5	ICIS 240-531220/13	20.0	26.130127	20.0	356681.0	1.306506	Y
6	STD8260 240-531220/14	40.0	53.074896	20.0	372985.0	1.326872	Y
7	STD8260 240-531220/15	60.0	84.977379	20.0	359177.0	1.41629	Y
8	STD8260 240-531220/16	80.0	108.604909	20.0	363030.0	1.357561	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

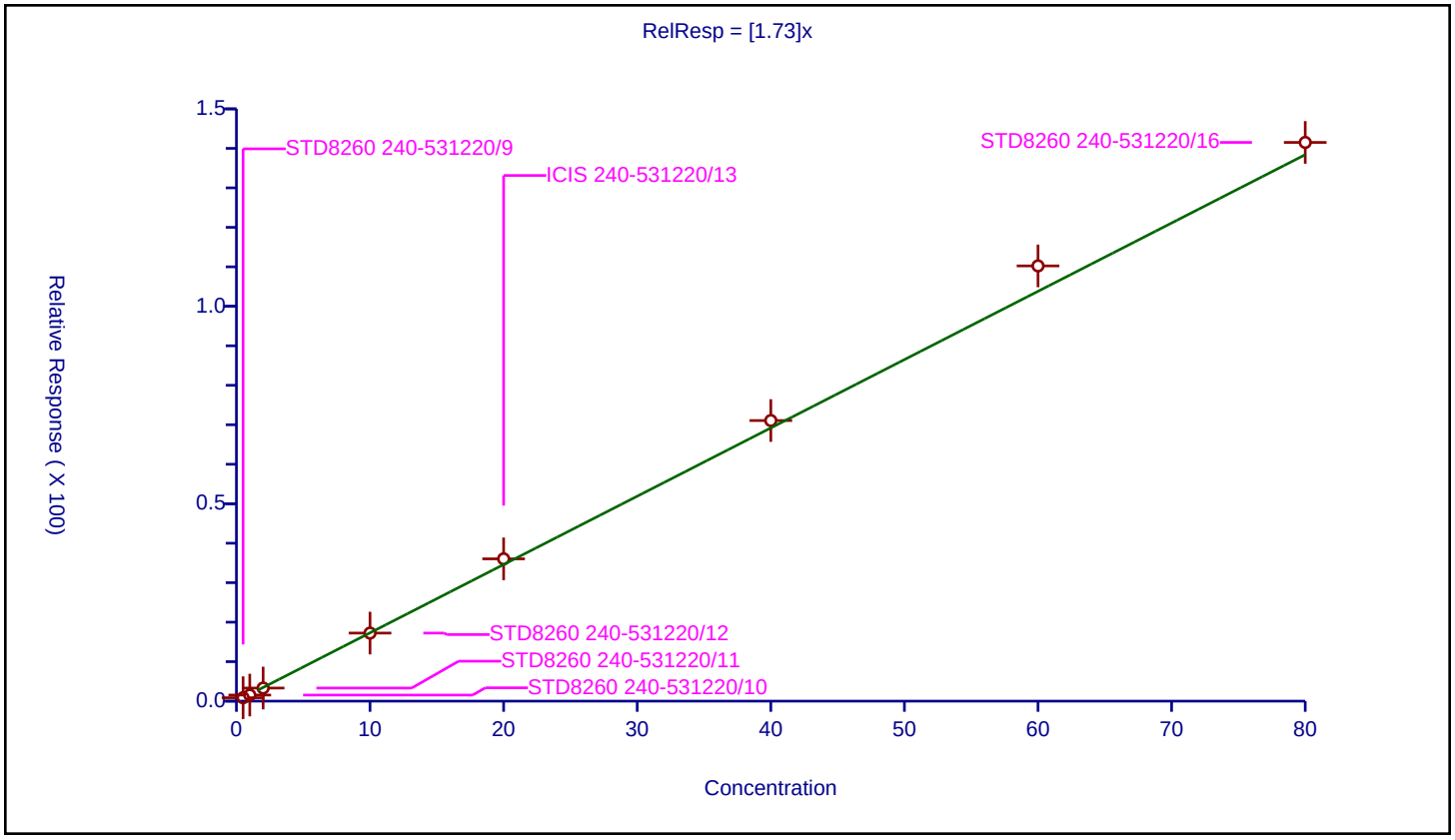
Curve Coefficients

Intercept:	0
Slope:	1.73

Error Coefficients

Standard Error:	1350000
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 240-531220/9	0.5	0.867873	20.0	292439.0	1.735747	Y
2	STD8260 240-531220/10	1.0	1.538629	20.0	331633.0	1.538629	Y
3	STD8260 240-531220/11	2.0	3.314068	20.0	325636.0	1.657034	Y
4	STD8260 240-531220/12	10.0	17.236888	20.0	344843.0	1.723689	Y
5	ICIS 240-531220/13	20.0	36.038028	20.0	356681.0	1.801901	Y
6	STD8260 240-531220/14	40.0	71.0657	20.0	372985.0	1.776642	Y
7	STD8260 240-531220/15	60.0	110.235566	20.0	359177.0	1.837259	Y
8	STD8260 240-531220/16	80.0	141.506267	20.0	363030.0	1.768828	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

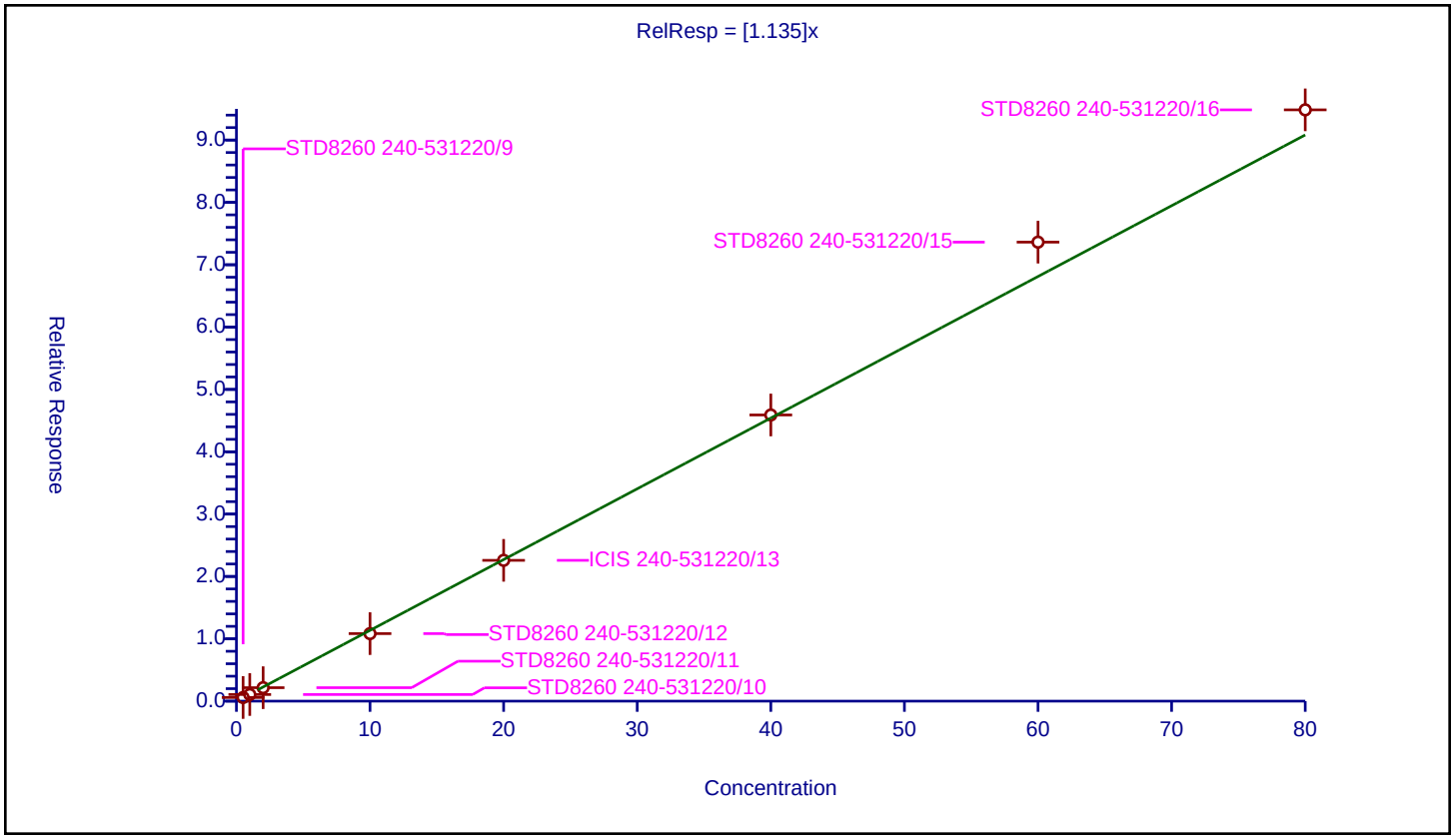
Curve Coefficients

Intercept:	0
Slope:	1.135

Error Coefficients

Standard Error:	898000
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 240-531220/9	0.5	0.584259	20.0	292439.0	1.168517	Y
2	STD8260 240-531220/10	1.0	1.061475	20.0	331633.0	1.061475	Y
3	STD8260 240-531220/11	2.0	2.159159	20.0	325636.0	1.07958	Y
4	STD8260 240-531220/12	10.0	10.83061	20.0	344843.0	1.083061	Y
5	ICIS 240-531220/13	20.0	22.583149	20.0	356681.0	1.129157	Y
6	STD8260 240-531220/14	40.0	45.902597	20.0	372985.0	1.147565	Y
7	STD8260 240-531220/15	60.0	73.624536	20.0	359177.0	1.227076	Y
8	STD8260 240-531220/16	80.0	94.844503	20.0	363030.0	1.185556	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

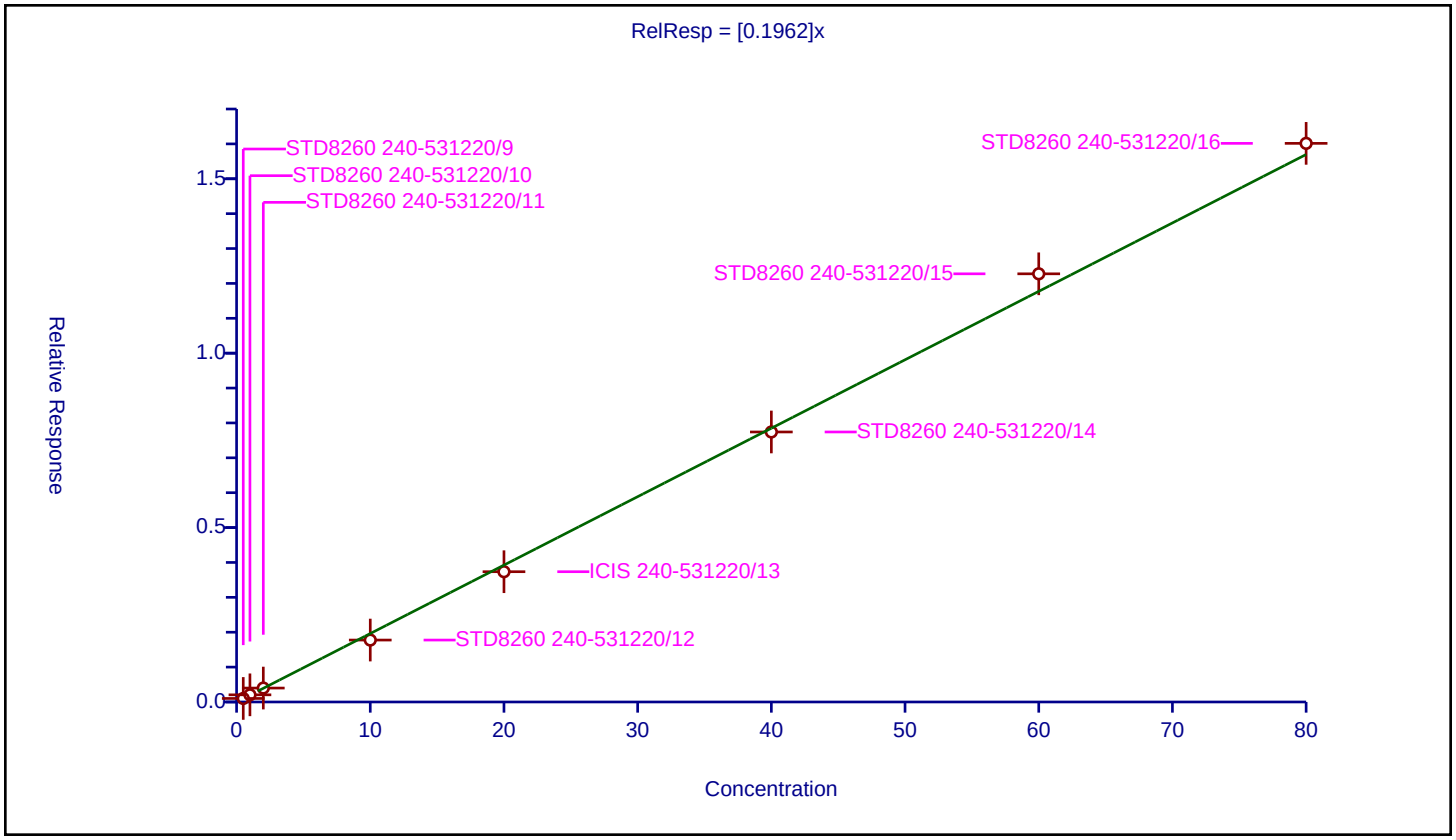
Curve Coefficients

Intercept:	0
Slope:	0.1962

Error Coefficients

Standard Error:	151000
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 240-531220/9	0.5	0.101013	20.0	292439.0	0.202025	Y
2	STD8260 240-531220/10	1.0	0.205167	20.0	331633.0	0.205167	Y
3	STD8260 240-531220/11	2.0	0.399649	20.0	325636.0	0.199824	Y
4	STD8260 240-531220/12	10.0	1.775707	20.0	344843.0	0.177571	Y
5	ICIS 240-531220/13	20.0	3.734878	20.0	356681.0	0.186744	Y
6	STD8260 240-531220/14	40.0	7.740901	20.0	372985.0	0.193523	Y
7	STD8260 240-531220/15	60.0	12.275619	20.0	359177.0	0.204594	Y
8	STD8260 240-531220/16	80.0	16.01504	20.0	363030.0	0.200188	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

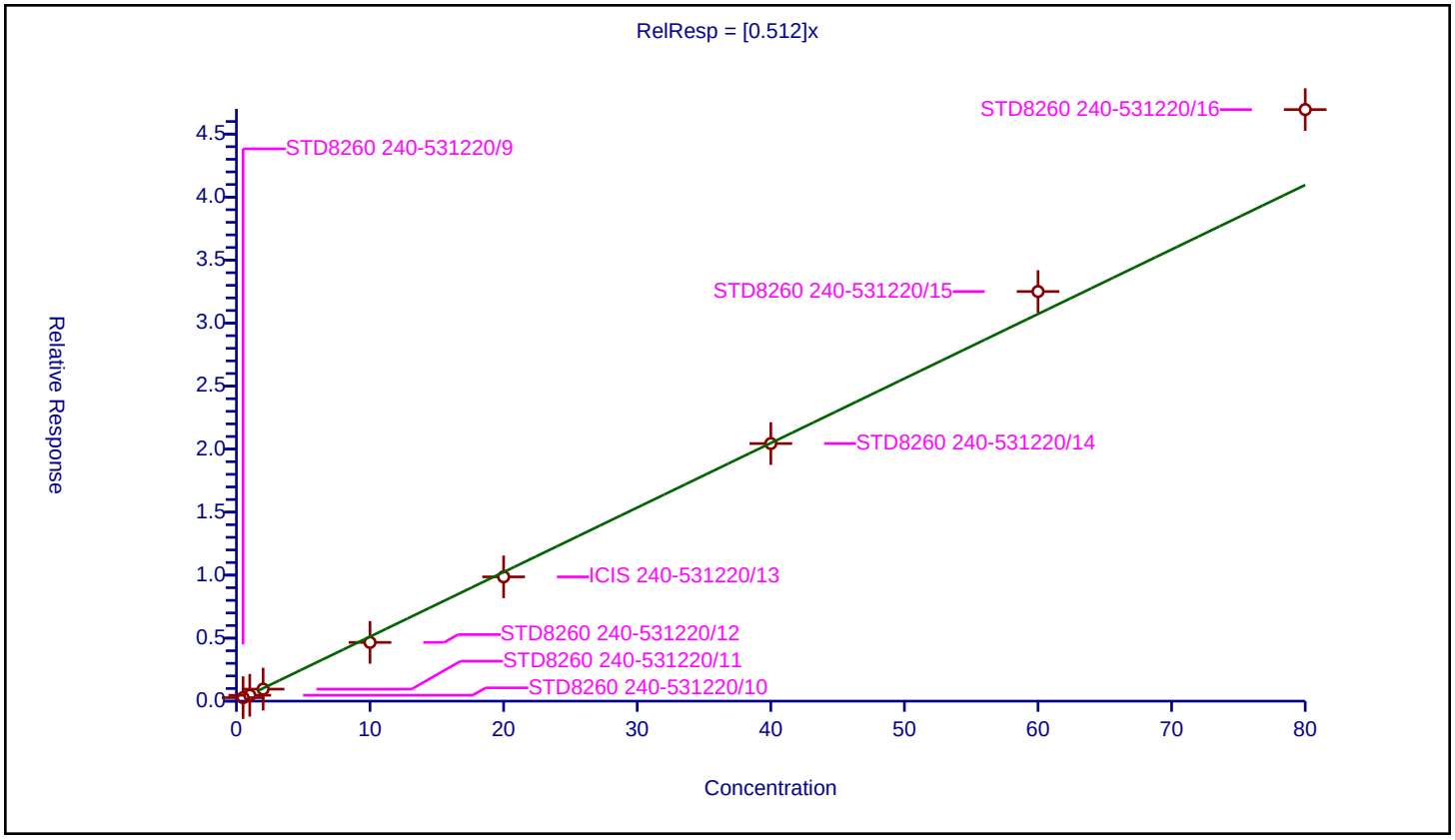
Curve Coefficients

Intercept:	0
Slope:	0.512

Error Coefficients

Standard Error:	423000
Relative Standard Error:	8.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.277186	20.0	292439.0	0.554372	Y
2	STD8260 240-531220/10	1.0	0.465575	20.0	331633.0	0.465575	Y
3	STD8260 240-531220/11	2.0	0.954194	20.0	325636.0	0.477097	Y
4	STD8260 240-531220/12	10.0	4.66218	20.0	344843.0	0.466218	Y
5	ICIS 240-531220/13	20.0	9.86394	20.0	356681.0	0.493197	Y
6	STD8260 240-531220/14	40.0	20.442216	20.0	372985.0	0.511055	Y
7	STD8260 240-531220/15	60.0	32.507705	20.0	359177.0	0.541795	Y
8	STD8260 240-531220/16	80.0	46.944605	20.0	363030.0	0.586808	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

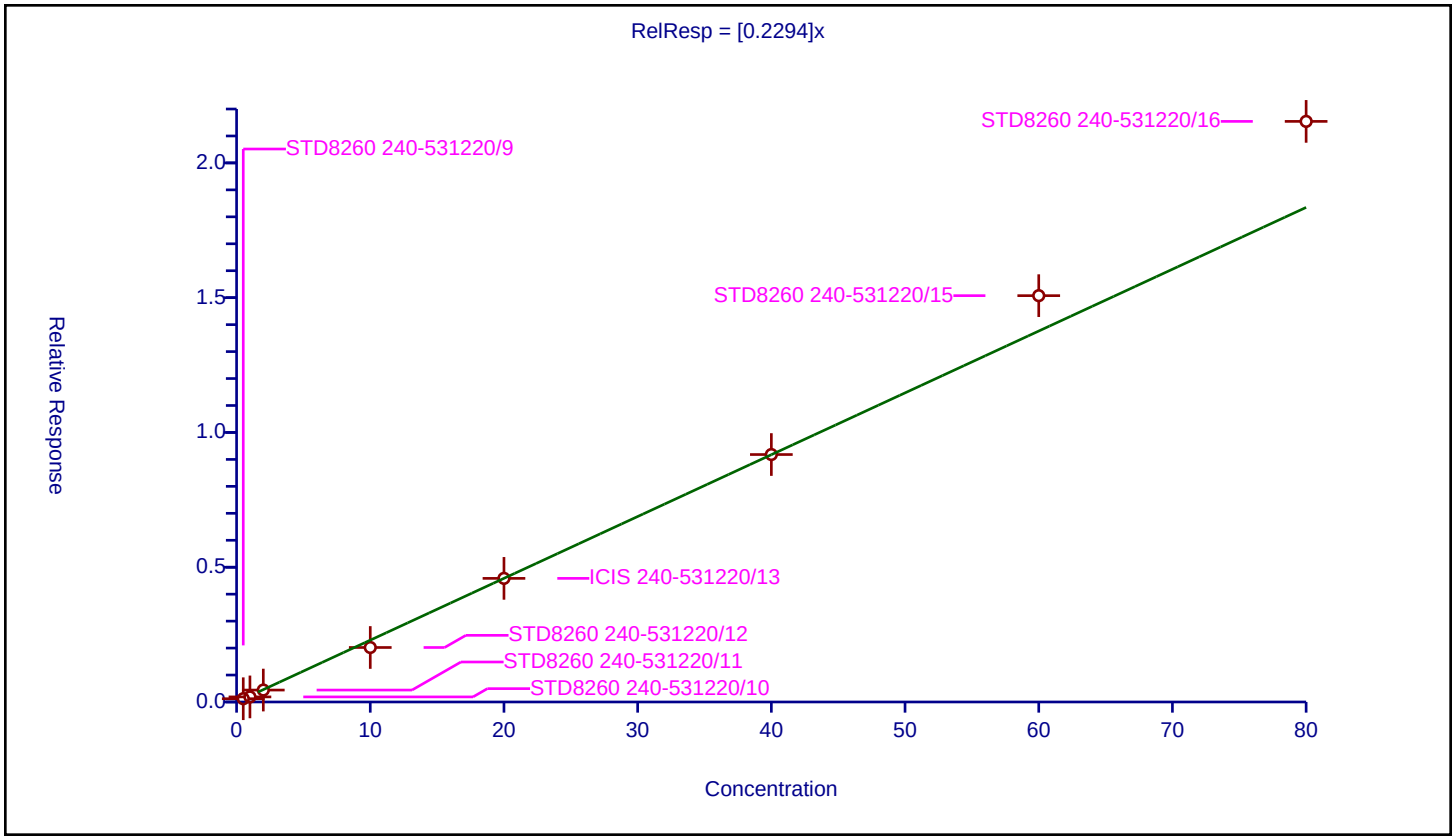
Curve Coefficients

Intercept:	0
Slope:	0.2294

Error Coefficients

Standard Error:	194000
Relative Standard Error:	11.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.12153	20.0	292439.0	0.243059	Y
2	STD8260 240-531220/10	1.0	0.188944	20.0	331633.0	0.188944	Y
3	STD8260 240-531220/11	2.0	0.442826	20.0	325636.0	0.221413	Y
4	STD8260 240-531220/12	10.0	2.021326	20.0	344843.0	0.202133	Y
5	ICIS 240-531220/13	20.0	4.586339	20.0	356681.0	0.229317	Y
6	STD8260 240-531220/14	40.0	9.181174	20.0	372985.0	0.229529	Y
7	STD8260 240-531220/15	60.0	15.07513	20.0	359177.0	0.251252	Y
8	STD8260 240-531220/16	80.0	21.540809	20.0	363030.0	0.26926	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

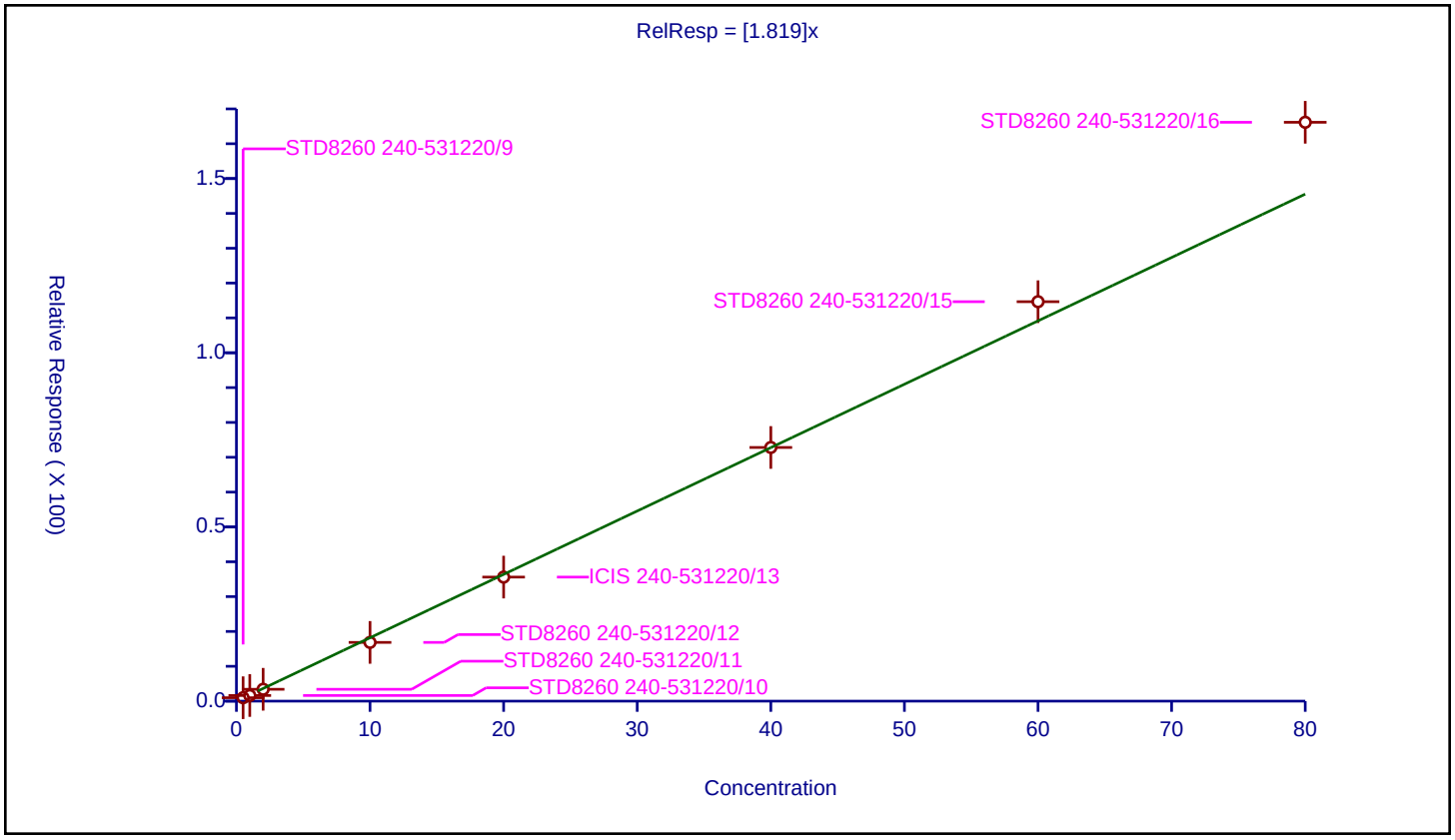
Curve Coefficients

Intercept:	0
Slope:	1.819

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	8.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.979418	20.0	292439.0	1.958836	Y
2	STD8260 240-531220/10	1.0	1.616787	20.0	331633.0	1.616787	Y
3	STD8260 240-531220/11	2.0	3.405889	20.0	325636.0	1.702944	Y
4	STD8260 240-531220/12	10.0	16.862862	20.0	344843.0	1.686286	Y
5	ICIS 240-531220/13	20.0	35.610588	20.0	356681.0	1.780529	Y
6	STD8260 240-531220/14	40.0	72.814295	20.0	372985.0	1.820357	Y
7	STD8260 240-531220/15	60.0	114.659402	20.0	359177.0	1.91099	Y
8	STD8260 240-531220/16	80.0	166.157453	20.0	363030.0	2.076968	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

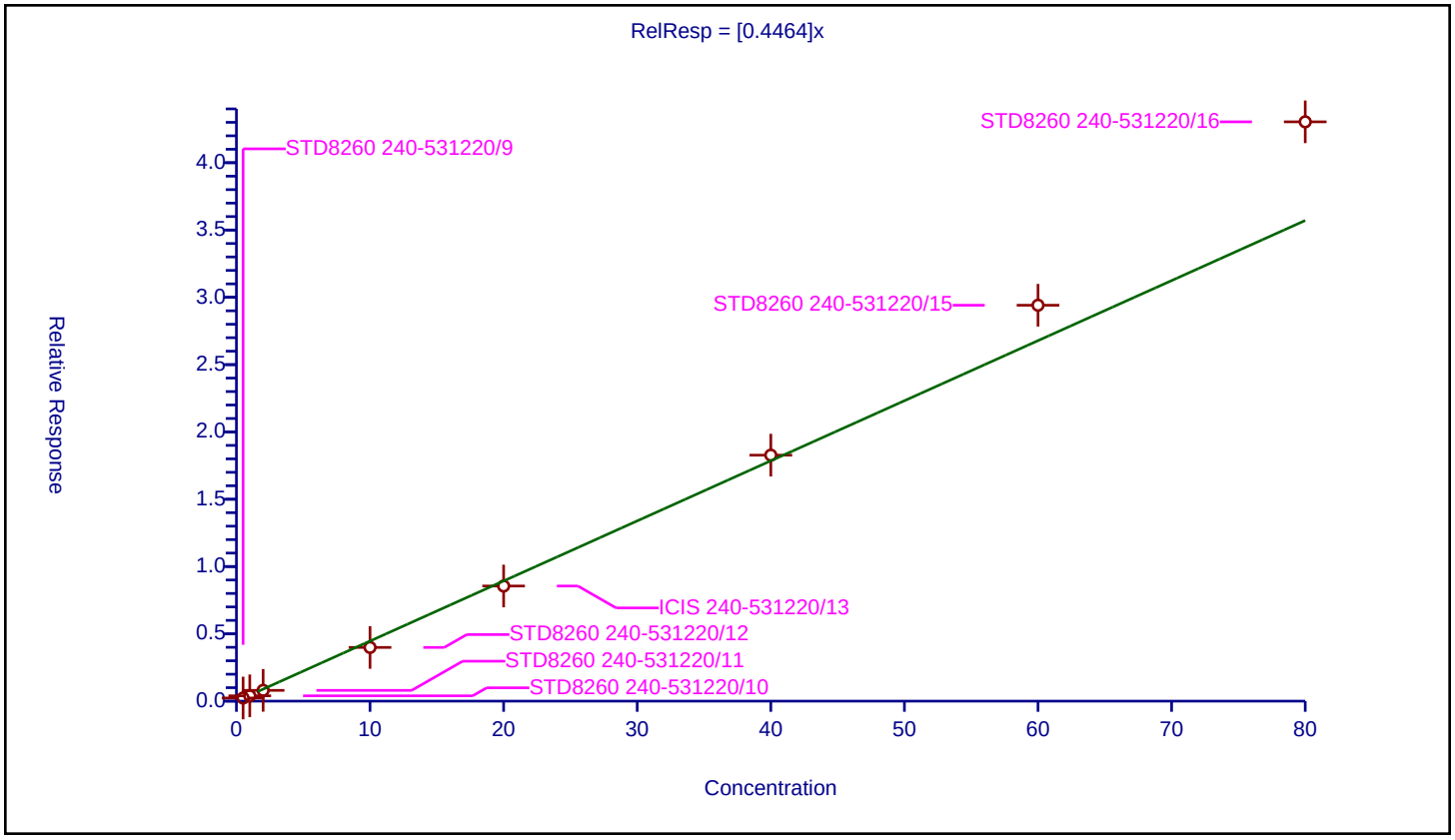
Curve Coefficients

Intercept:	0
Slope:	0.4464

Error Coefficients

Standard Error:	384000
Relative Standard Error:	11.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-531220/9	0.5	0.232664	20.0	292439.0	0.465328	Y
2	STD8260 240-531220/10	1.0	0.39399	20.0	331633.0	0.39399	Y
3	STD8260 240-531220/11	2.0	0.799666	20.0	325636.0	0.399833	Y
4	STD8260 240-531220/12	10.0	3.989758	20.0	344843.0	0.398976	Y
5	ICIS 240-531220/13	20.0	8.553918	20.0	356681.0	0.427696	Y
6	STD8260 240-531220/14	40.0	18.275427	20.0	372985.0	0.456886	Y
7	STD8260 240-531220/15	60.0	29.41352	20.0	359177.0	0.490225	Y
8	STD8260 240-531220/16	80.0	43.038261	20.0	363030.0	0.537978	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 20:12 Calibration End Date: 06/17/2022 22:33 Calibration ID: 66326

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-531220/21	UXC2446.D
Level 2	STDA9 240-531220/22	UXC2447.D
Level 3	STDA9 240-531220/23	UXC2448.D
Level 4	STDA9 240-531220/24	UXC2449.D
Level 5	STDA9 240-531220/25	UXC2450.D
Level 6	STDA9 240-531220/26	UXC2451.D
Level 7	STDA9 240-531220/27	UXC2452.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0322 0.0286	0.0281 0.0288	0.0228	0.0260	0.0289	Ave		0.0279				10.4		20.0			
Diisopropyl ether	0.2166 0.2197	0.2641 0.2164	0.2236	0.2078	0.2190	Ave		0.2239				8.2		20.0			
2-Chloro-1,3-butadiene	0.4251 0.4152	0.4663 0.4096	0.4305	0.3931	0.4146	Ave		0.4220				5.4		20.0			
Ethyl-t-butyl ether (ETBE)	0.7824 0.7206	0.8083 0.7228	0.7533	0.6923	0.7240	Ave		0.7434				5.4		20.0			
Ethyl acetate	0.3527 0.3164	0.3743 0.2978	0.3212	0.2962	0.3017	Ave		0.3229				9.3		20.0			
Propionitrile	0.0436 0.0447	0.0458 0.0444	0.0470	0.0422	0.0448	Ave		0.0447				3.4		20.0			
Methacrylonitrile	0.2028 0.1989	0.2107 0.1928	0.2005	0.1916	0.1973	Ave		0.1993				3.2		20.0			
Tert-amyl-methyl ether (TAME)	0.7113 0.7439	0.8233 0.7362	0.7568	0.6934	0.7380	Ave		0.7433				5.5		20.0			
n-Butanol	0.0127 0.0118	0.0113 0.0118	0.0117	0.0104	0.0118	Ave		0.0116				5.9		20.0			
Methyl methacrylate	0.3221 0.2645	0.2966 0.2589	0.2781	0.2578	0.2602	Ave		0.2769				8.8		20.0			
2-Nitropropane	0.1107 0.0950	0.1018 0.0935	0.0955	0.0892	0.0967	Ave		0.0975				7.1		20.0			
n-Butyl acetate	0.5073 0.4467	0.5074 0.4342	0.4557	0.4309	0.4401	Ave		0.4603				7.2		20.0			
1-Chlorohexane	0.5315 0.4525	0.5305 0.4552	0.4787	0.4263	0.4790	Ave		0.4791				8.3		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 Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 20:12 Calibration End Date: 06/17/2022 22:33 Calibration ID: 66326

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.0354 0.0297	0.0353 0.0288	0.0342	0.0273	0.0310	Ave		0.0317				10.3		20.0			
Pentachloroethane	+++++ 0.0164	0.0374 0.0083	0.0150	0.0102	0.0226	Ave		0.0183				57.9	*	20.0			
1,2,3-Trimethylbenzene	2.2656 2.4239	2.6303 2.3168	2.5665	2.2092	2.4668	Ave		2.4113				6.5		20.0			
Benzyl chloride	0.2609 0.3135	0.3094 0.2969	0.3001	0.2697	0.3057	Ave		0.2937				6.9		20.0			
1,3,5-Trichlorobenzene	0.5912 0.6267	0.7470 0.6198	0.6553	0.5641	0.6139	Ave		0.6311				9.3		20.0			
2-Methylnaphthalene	0.8466 1.1785	0.9513 1.2060	0.9839	0.8598	1.0361	Ave		1.0089				14.1		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 20:12 Calibration End Date: 06/17/2022 22:33 Calibration ID: 66326

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-531220/21	UXC2446.D
Level 2	STDA9 240-531220/22	UXC2447.D
Level 3	STDA9 240-531220/23	UXC2448.D
Level 4	STDA9 240-531220/24	UXC2449.D
Level 5	STDA9 240-531220/25	UXC2450.D
Level 6	STDA9 240-531220/26	UXC2451.D
Level 7	STDA9 240-531220/27	UXC2452.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	7553 836101	12775 1131002	98491	248946	559248	5.00 600	10.0 800	100	200	400
Diisopropyl ether	FB	Ave	5084 642699	11996 849288	96685	199058	423313	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	9979 1214213	21176 1607523	186138	376542	801390	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	18367 2107553	36708 2836697	325715	663258	1399606	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl acetate	FB	Ave	16559 1850600	34000 2337108	277714	567533	1166501	1.00 120	2.00 160	20.0	40.0	80.0
Propionitrile	FB	Ave	10242 1308164	20820 1744263	203240	404594	866593	5.00 600	10.0 800	100	200	400
Methacrylonitrile	FB	Ave	47613 5817928	95706 7568073	866964	1835678	3814116	5.00 600	10.0 800	100	200	400
Tert-amyl-methyl ether (TAME)	FB	Ave	16699 2175739	37389 2889273	327214	664247	1426730	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butanol	FB	Ave	7436 864995	12801 1159448	126735	249228	570684	12.5 1500	25.0 2000	250	500	1000
Methyl methacrylate	FB	Ave	15122 1547389	26944 2032269	240441	493933	1006015	1.00 120	2.00 160	20.0	40.0	80.0
2-Nitropropane	FB	Ave	5199 555693	9245 733507	82620	170862	373978	1.00 120	2.00 160	20.0	40.0	80.0
n-Butyl acetate	FB	Ave	11910 1306559	23045 1703938	197046	412833	850692	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	8992 960773	17524 1268922	147513	298296	656322	0.500 60.0	1.00 80.0	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-169444-1 Analy Batch No.: 531220

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2022 20:12 Calibration End Date: 06/17/2022 22:33 Calibration ID: 66326

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
Cyclohexanone	DCBd 4	Ave	2702 267840	5008 369311	45648	83660	187781	5.00 600	10.0 800	100	200	400
Pentachloroethane	CBNZ d5	Ave	+++++ 69650	2470 46530	9227	14301	61876	+++++ 120	2.00 160	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	17279 2184057	37351 2967915	342729	676165	1492006	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	1990 282439	4393 380352	40080	82544	184890	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	4509 564728	10607 793931	87507	172660	371307	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	12913 2123813	27017 3089739	262785	526316	1253394	1.00 120	2.00 160	20.0	40.0	80.0

Curve Type Legend
Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2446.D
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Jun-2022 20:12:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-021
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:57 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:34:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	939032	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	676685	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.581	-0.012	96	305065	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	86	7553	5.00	5.76	
37 Isopropyl ether	87	4.568	4.568	0.000	93	5084	0.5000	0.4836	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	93	9979	0.5000	0.5036	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	95	18367	0.5000	0.5262	
43 Ethyl acetate	43	5.007	5.007	0.000	98	16559	1.00	1.09	
44 Propionitrile	54	5.055	5.055	0.000	97	10242	5.00	4.88	
45 Methacrylonitrile	41	5.173	5.173	0.000	90	47613	5.00	5.09	
54 Isooctane	57	5.778	5.778	0.000	82	13936	0.5000	0.4924	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	85	16699	0.5000	0.4785	
59 n-Butanol	56	6.063	6.063	0.000	86	7436	12.5	13.6	
61 Ethyl acrylate	55	6.229	6.229	0.000	98	9413	0.5000	0.5112	
64 Methyl methacrylate	41	6.418	6.418	0.000	92	15122	1.00	1.16	
68 2-Nitropropane	41	6.786	6.786	0.000	98	5199	1.00	1.14	
79 n-Butyl acetate	43	7.829	7.830	-0.001	98	11910	0.5000	0.5510	
83 1-Chlorohexane	91	8.422	8.422	0.000	95	8992	0.5000	0.5547	
92 Cyclohexanone	55	9.430	9.430	0.000	87	2702	5.00	5.59	
105 Pentachloroethane	167		10.213				ND	ND	
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	92	17279	0.5000	0.4698	
112 Benzyl chloride	126	10.699	10.699	0.000	98	1990	0.5000	0.4441	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	92	4509	0.5000	0.4684	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	89	12913	1.00	0.8391	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	90	11817	1.00	0.8264	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmra9w_00439	Amount Added:	0.40	Units: uL

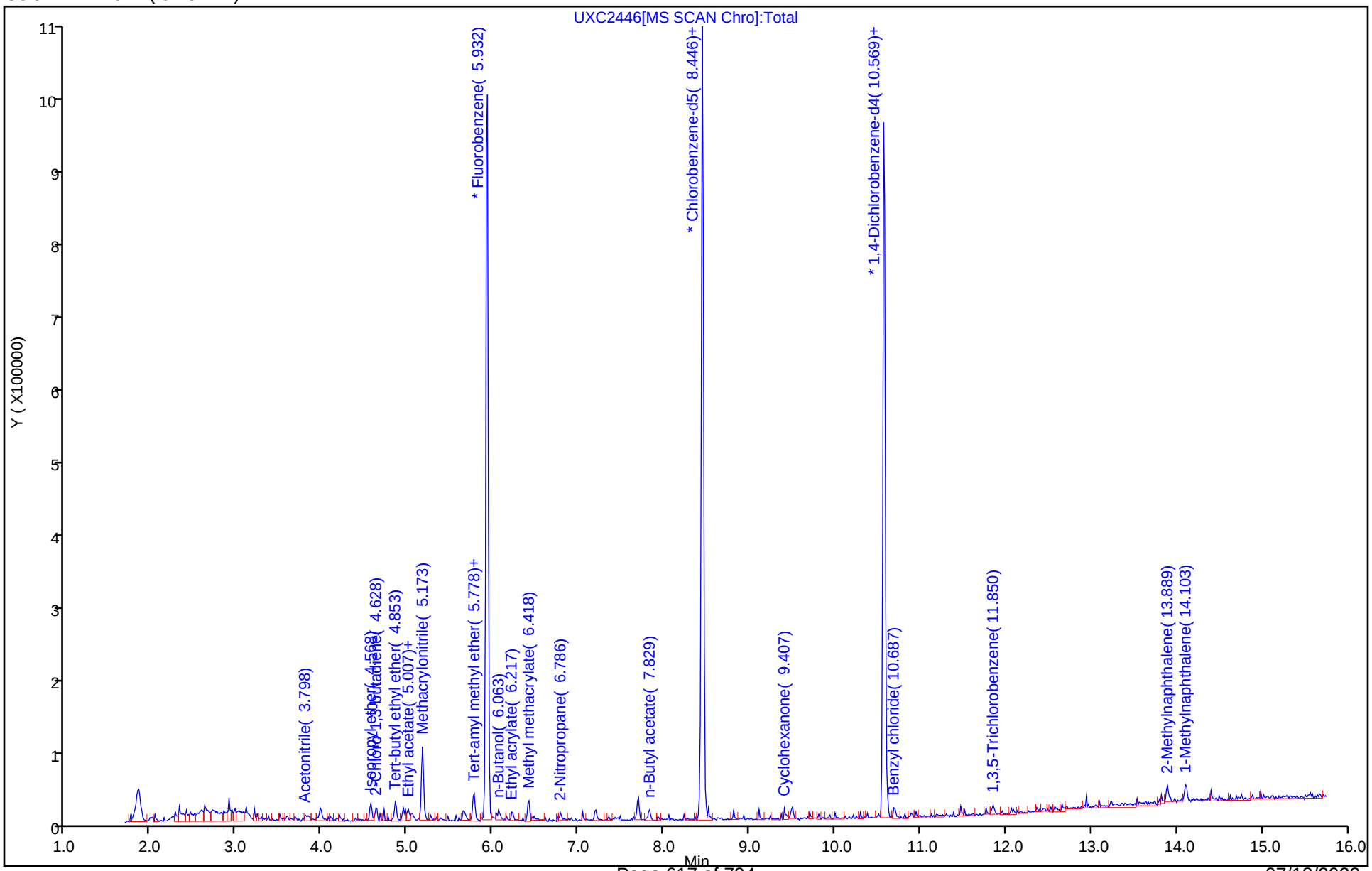
Report Date: 20-Jun-2022 10:42:57 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2446.D

Injection Date:	17-Jun-2022 20:12:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	stdA9 L1			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2447.D
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Jun-2022 20:35:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-022
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:42:59 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:35:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	908291	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	87	660610	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.581	-0.012	96	284002	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	93	12775	10.0	10.1	
37 Isopropyl ether	87	4.569	4.568	0.001	89	11996	1.00	1.18	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	94	21176	1.00	1.10	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	97	36708	1.00	1.09	
43 Ethyl acetate	43	5.007	5.007	0.000	98	34000	2.00	2.32	
44 Propionitrile	54	5.055	5.055	0.000	94	20820	10.0	10.3	
45 Methacrylonitrile	41	5.173	5.173	0.000	92	95706	10.0	10.6	
54 Isooctane	57	5.778	5.778	0.000	81	30523	1.00	1.11	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	87	37389	1.00	1.11	
59 n-Butanol	56	6.063	6.063	0.000	92	12801	25.0	24.2	
61 Ethyl acrylate	55	6.229	6.229	0.000	98	19563	1.00	1.10	
64 Methyl methacrylate	41	6.418	6.418	0.000	88	26944	2.00	2.14	
68 2-Nitropropane	41	6.786	6.786	0.000	97	9245	2.00	2.09	
79 n-Butyl acetate	43	7.830	7.830	0.000	97	23045	1.00	1.10	
83 1-Chlorohexane	91	8.423	8.422	0.001	95	17524	1.00	1.11	
92 Cyclohexanone	55	9.431	9.430	0.001	88	5008	10.0	11.1	
105 Pentachloroethane	167	10.213	10.213	0.000	89	2470	2.00	4.08	
111 1,2,3-Trimethylbenzene	105	10.605	10.604	0.001	94	37351	1.00	1.09	
112 Benzyl chloride	126	10.699	10.699	0.000	98	4393	1.00	1.05	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	95	10607	1.00	1.18	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	92	27017	2.00	1.89	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	89	24248	2.00	1.82	

QC Flag Legend
Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmra9w_00439	Amount Added:	0.80	Units: uL

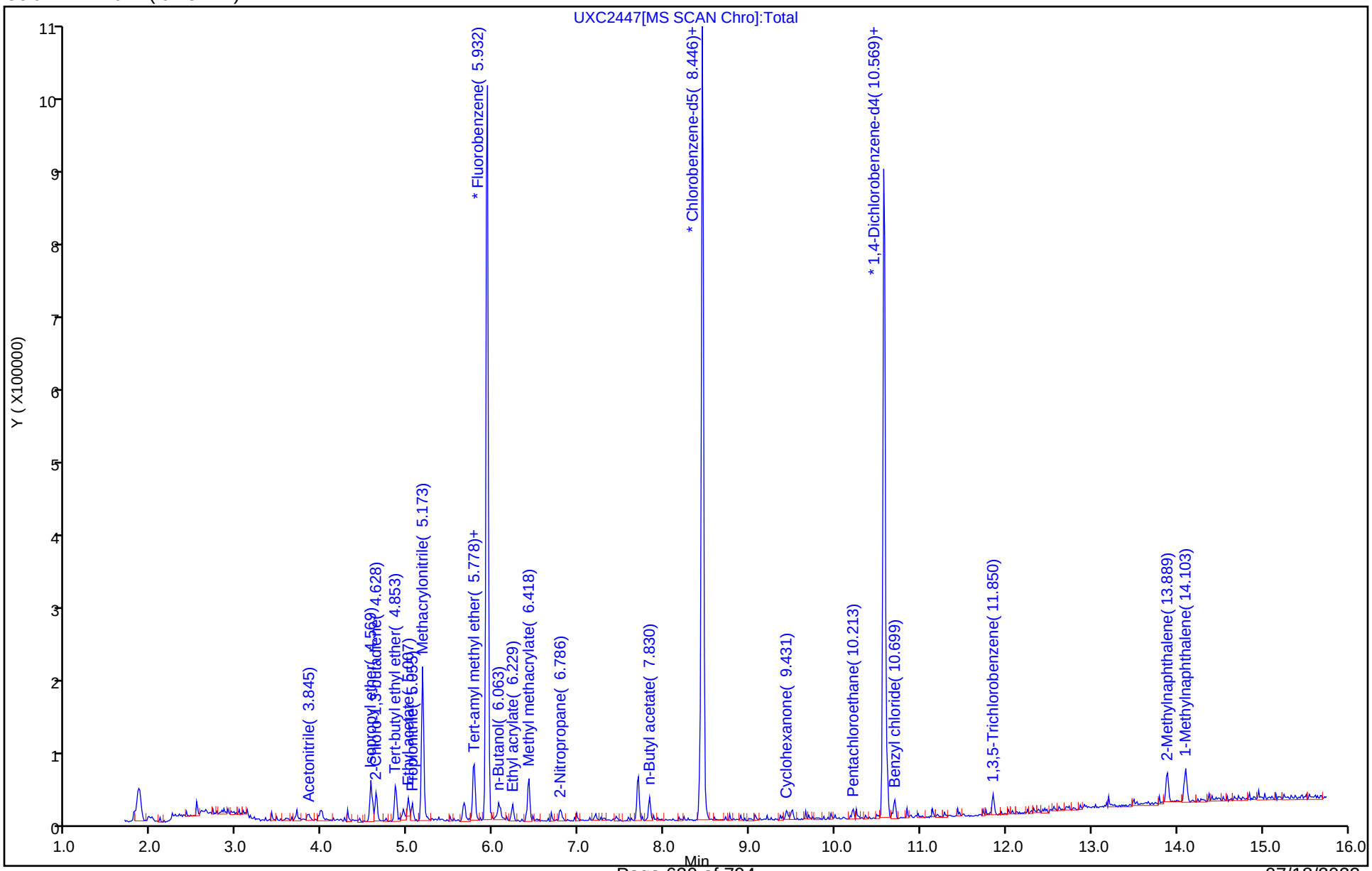
Report Date: 20-Jun-2022 10:43:00 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2447.D

Injection Date:	17-Jun-2022 20:35:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	stdA9 L2			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2448.D
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Jun-2022 20:59:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-023
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:43:02 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:35:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	864720	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	87	616343	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.581	-0.012	97	267079	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	98	98491	100.0	81.6	
37 Isopropyl ether	87	4.568	4.568	0.000	92	96685	10.0	9.99	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	93	186138	10.0	10.2	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	98	325715	10.0	10.1	
43 Ethyl acetate	43	5.007	5.007	0.000	99	277714	20.0	19.9	
44 Propionitrile	54	5.055	5.055	0.000	99	203240	100.0	105.2	
45 Methacrylonitrile	41	5.173	5.173	0.000	91	866964	100.0	100.6	
54 Isooctane	57	5.778	5.778	0.000	83	265329	10.0	10.2	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	89	327214	10.0	10.2	
59 n-Butanol	56	6.063	6.063	0.000	87	126735	250.0	251.7	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	167927	10.0	9.90	
64 Methyl methacrylate	41	6.418	6.418	0.000	90	240441	20.0	20.1	
68 2-Nitropropane	41	6.786	6.786	0.000	100	82620	20.0	19.6	
79 n-Butyl acetate	43	7.830	7.830	0.000	97	197046	10.0	9.90	
83 1-Chlorohexane	91	8.422	8.422	0.000	98	147513	10.0	10.0	
92 Cyclohexanone	55	9.430	9.430	0.000	91	45648	100.0	107.9	
105 Pentachloroethane	167	10.213	10.213	0.000	96	9227	20.0	16.3	
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	342729	10.0	10.6	
112 Benzyl chloride	126	10.699	10.699	0.000	98	40080	10.0	10.2	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	97	87507	10.0	10.4	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	91	262785	20.0	19.5	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	249798	20.0	20.0	

QC Flag Legend
Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmra9w_00439	Amount Added:	8.00	Units: uL

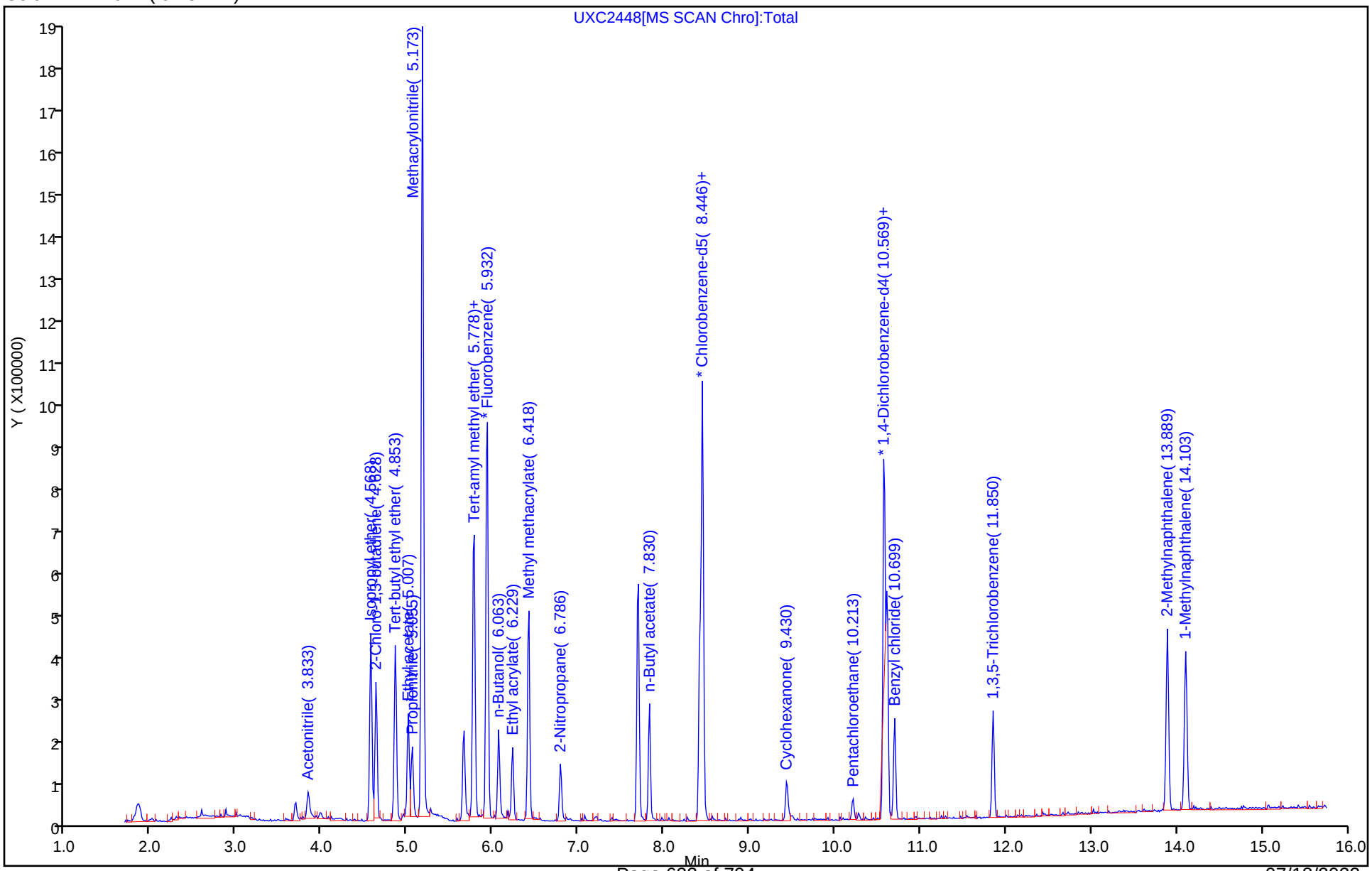
Report Date: 20-Jun-2022 10:43:02 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2448.D

Injection Date:	17-Jun-2022 20:59:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	stdA9 L3			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2449.D
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Jun-2022 21:22:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-024
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:43:04 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:36:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	957989	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	699723	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.581	10.581	0.000	95	306066	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	98	248946	200.0	186.2	
37 Isopropyl ether	87	4.568	4.568	0.000	92	199058	20.0	18.6	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	92	376542	20.0	18.6	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	97	663258	20.0	18.6	
43 Ethyl acetate	43	5.007	5.007	0.000	99	567533	40.0	36.7	
44 Propionitrile	54	5.055	5.055	0.000	99	404594	200.0	189.1	
45 Methacrylonitrile	41	5.173	5.173	0.000	91	1835678	200.0	192.3	
54 Isooctane	57	5.778	5.778	0.000	83	536087	20.0	18.6	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	89	664247	20.0	18.7	
59 n-Butanol	56	6.063	6.063	0.000	89	249228	500.0	446.7	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	364188	20.0	19.4	
64 Methyl methacrylate	41	6.418	6.418	0.000	91	493933	40.0	37.2	
68 2-Nitropropane	41	6.786	6.786	0.000	99	170862	40.0	36.6	
79 n-Butyl acetate	43	7.829	7.830	-0.001	96	412833	20.0	18.7	
83 1-Chlorohexane	91	8.422	8.422	0.000	97	298296	20.0	17.8	
92 Cyclohexanone	55	9.430	9.430	0.000	93	83660	200.0	172.5	
105 Pentachloroethane	167	10.213	10.213	0.000	92	14301	40.0	22.3	
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	97	676165	20.0	18.3	
112 Benzyl chloride	126	10.699	10.699	0.000	98	82544	20.0	18.4	
116 1,3,5-Trichlorobenzene	180	11.849	11.850	-0.001	97	172660	20.0	17.9	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	92	526316	40.0	34.1	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	492516	40.0	34.3	

QC Flag Legend
Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmra9w_00439	Amount Added:	16.00	Units: uL

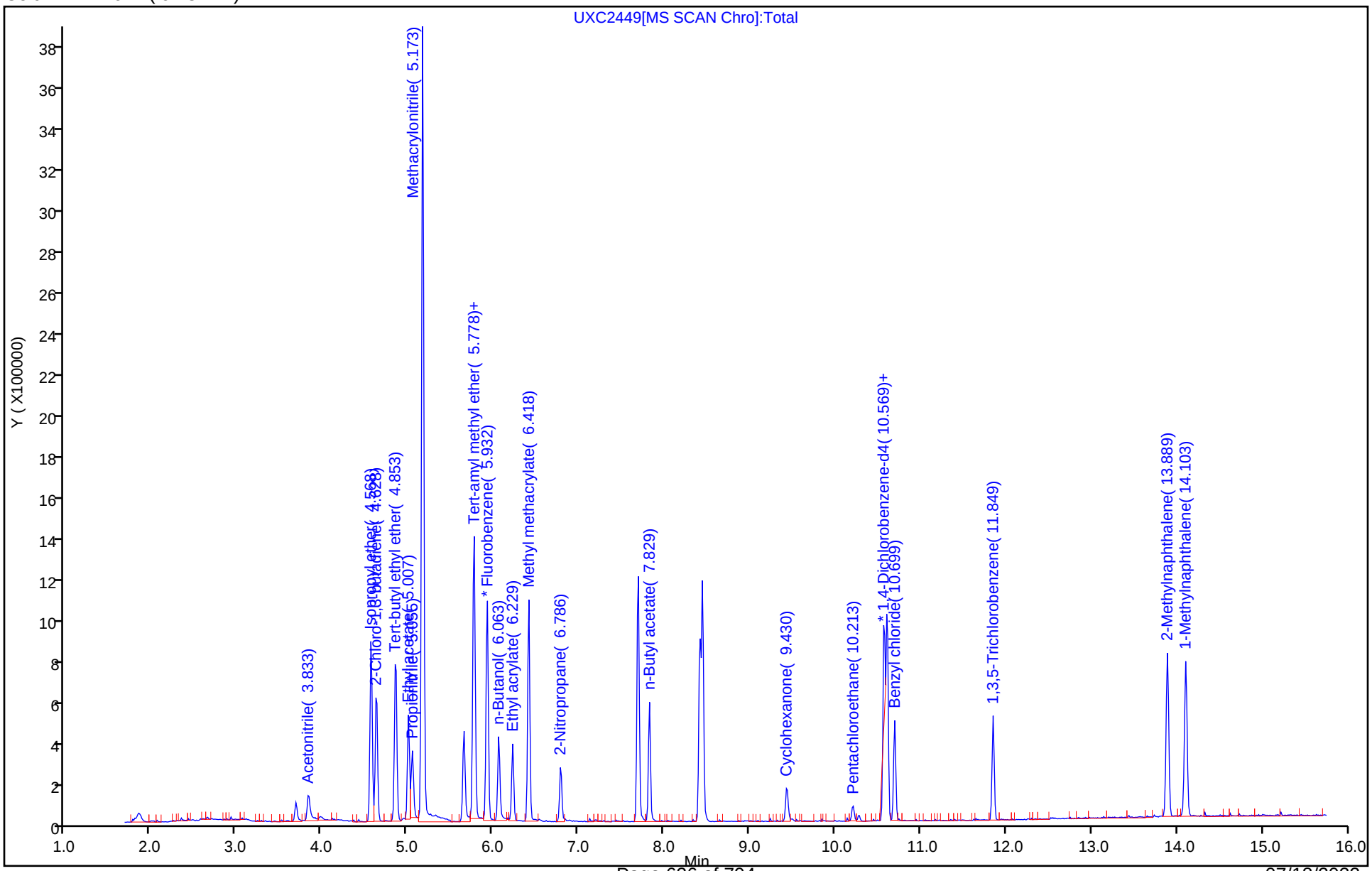
Report Date: 20-Jun-2022 10:43:05 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2449.D

Injection Date:	17-Jun-2022 21:22:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	stdA9 L4			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2450.D
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Jun-2022 21:46:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-025
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:43:07 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:36:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	966569	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	685039	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	96	302417	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	100	559248	400.0	414.5	
37 Isopropyl ether	87	4.568	4.568	0.000	92	423313	40.0	39.1	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	92	801390	40.0	39.3	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	97	1399606	40.0	39.0	
43 Ethyl acetate	43	5.007	5.007	0.000	99	1166501	80.0	74.8	
44 Propionitrile	54	5.055	5.055	0.000	99	866593	400.0	401.4	
45 Methacrylonitrile	41	5.173	5.173	0.000	91	3814116	400.0	396.1	
54 Isooctane	57	5.778	5.778	0.000	84	1182028	40.0	40.6	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	90	1426730	40.0	39.7	
59 n-Butanol	56	6.063	6.063	0.000	87	570684	1000.0	1013.8	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	752509	40.0	39.7	
64 Methyl methacrylate	41	6.418	6.418	0.000	90	1006015	80.0	75.2	
68 2-Nitropropane	41	6.786	6.786	0.000	99	373978	80.0	79.4	
79 n-Butyl acetate	43	7.830	7.830	0.000	96	850692	40.0	38.2	
83 1-Chlorohexane	91	8.422	8.422	0.000	97	656322	40.0	40.0	
92 Cyclohexanone	55	9.430	9.430	0.000	92	187781	400.0	391.9	
105 Pentachloroethane	167	10.213	10.213	0.000	97	61876	80.0	98.6	
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	1492006	40.0	40.9	
112 Benzyl chloride	126	10.699	10.699	0.000	98	184890	40.0	41.6	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	97	371307	40.0	38.9	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	92	1253394	80.0	82.2	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	1159001	80.0	81.8	

QC Flag Legend
Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added: 2.00	Units: uL
vmra9w_00439	Amount Added: 32.00	Units: uL

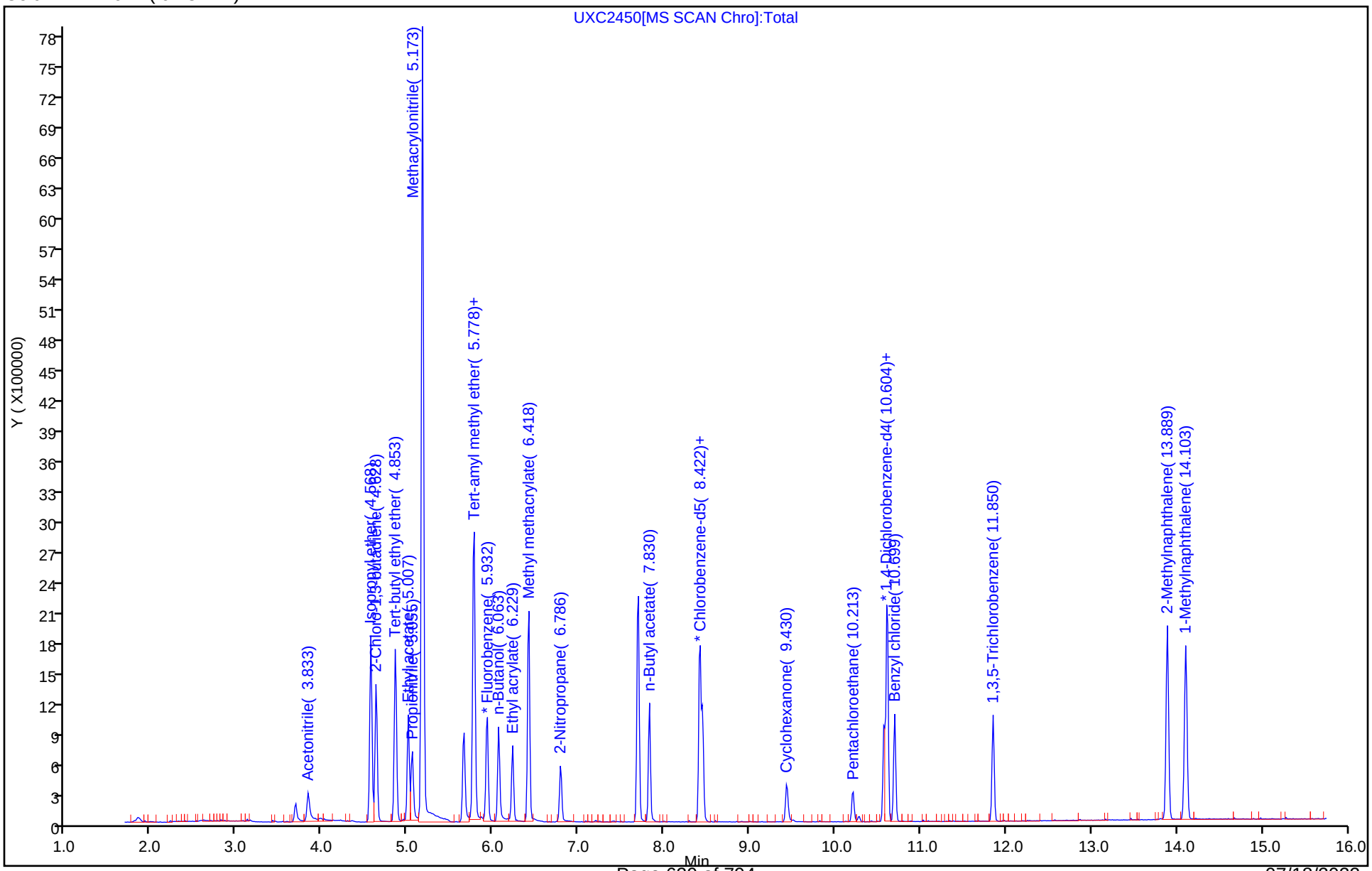
Report Date: 20-Jun-2022 10:43:07 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2450.D

Injection Date:	17-Jun-2022 21:46:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	stdA9 L5			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2451.D
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Jun-2022 22:10:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-026
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:43:09 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:37:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	974898	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	707762	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.581	10.569	0.012	95	300350	20.0	20.0	
25 Acetonitrile	41	3.845	3.833	0.012	99	836101	600.0	614.5	
37 Isopropyl ether	87	4.568	4.568	0.000	92	642699	60.0	58.9	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	93	1214213	60.0	59.0	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	97	2107553	60.0	58.2	
43 Ethyl acetate	43	5.007	5.007	0.000	99	1850600	120.0	117.6	
44 Propionitrile	54	5.055	5.055	0.000	99	1308164	600.0	600.7	
45 Methacrylonitrile	41	5.173	5.173	0.000	92	5817928	600.0	599.0	
54 Isooctane	57	5.778	5.778	0.000	81	1717607	60.0	58.5	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	90	2175739	60.0	60.1	
59 n-Butanol	56	6.063	6.063	0.000	87	864995	1500.0	1523.5	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	1120820	60.0	58.6	
64 Methyl methacrylate	41	6.418	6.418	0.000	90	1547389	120.0	114.6	
68 2-Nitropropane	41	6.786	6.786	0.000	99	555693	120.0	116.9	
79 n-Butyl acetate	43	7.830	7.830	0.000	96	1306559	60.0	58.2	
83 1-Chlorohexane	91	8.422	8.422	0.000	97	960773	60.0	56.7	
92 Cyclohexanone	55	9.430	9.430	0.000	93	267840	600.0	562.8	
105 Pentachloroethane	167	10.213	10.213	0.000	99	69650	120.0	107.4	
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	2184057	60.0	60.3	
112 Benzyl chloride	126	10.699	10.699	0.000	98	282439	60.0	64.0	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	97	564728	60.0	59.6	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	92	2123813	120.0	140.2	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	1991248	120.0	141.4	

QC Flag Legend
Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added: 2.00	Units: uL
vmra9w_00439	Amount Added: 48.00	Units: uL

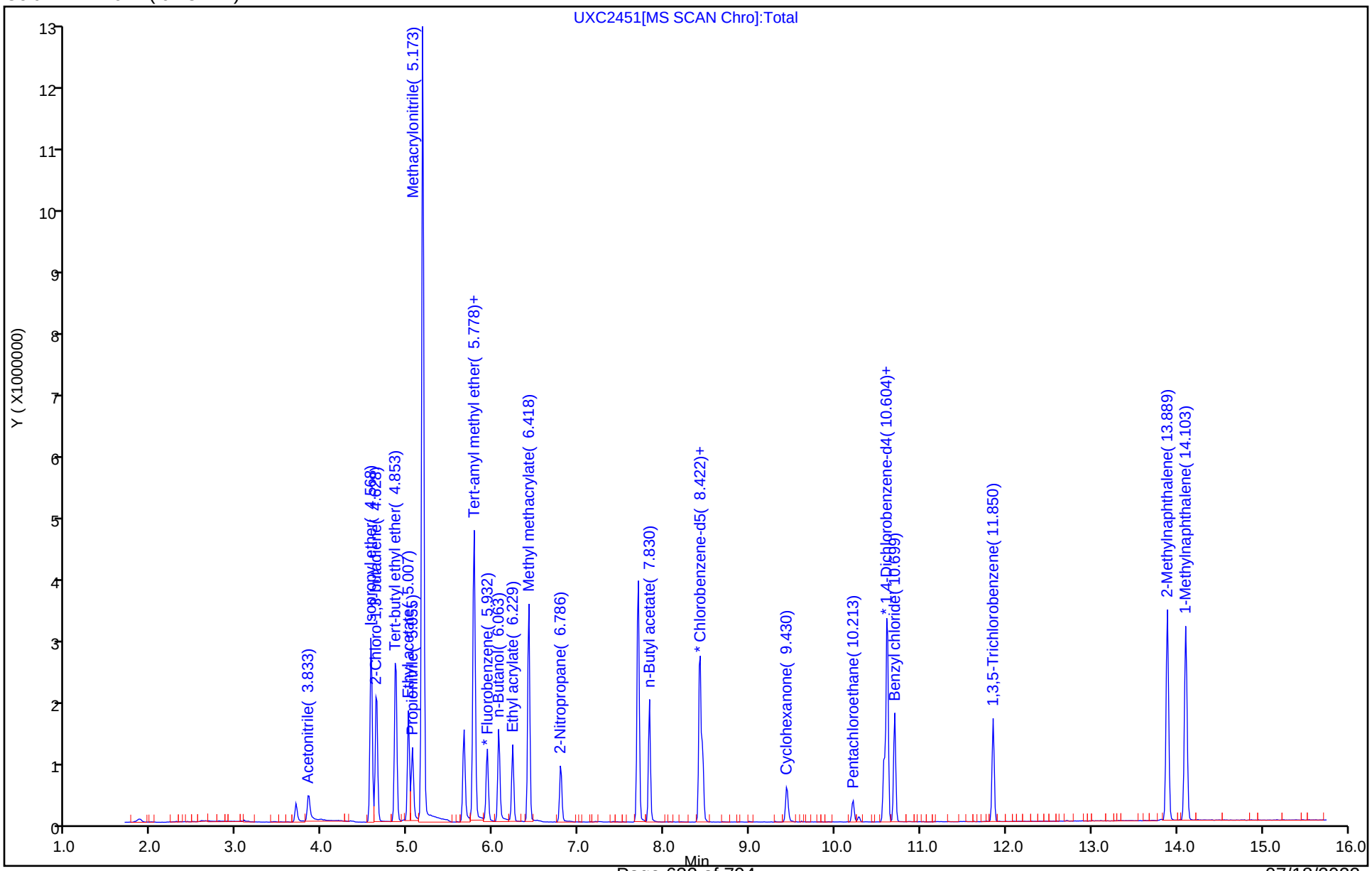
Report Date: 20-Jun-2022 10:43:09 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2451.D

Injection Date:	17-Jun-2022 22:10:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	stdA9 L6			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D
Lims ID: stdA9 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Jun-2022 22:33:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-027
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:43:11 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 20-Jun-2022 10:37:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	981104	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	696839	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.581	10.569	0.012	94	320257	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	99	1131002	800.0	825.9	
37 Isopropyl ether	87	4.568	4.568	0.000	93	849288	80.0	77.3	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	92	1607523	80.0	77.6	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	97	2836697	80.0	77.8	
43 Ethyl acetate	43	5.007	5.007	0.000	99	2337108	160.0	147.5	
44 Propionitrile	54	5.055	5.055	0.000	99	1744263	800.0	795.9	
45 Methacrylonitrile	41	5.173	5.173	0.000	91	7568073	800.0	774.3	
54 Isooctane	57	5.778	5.778	0.000	82	2283957	80.0	77.2	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	91	2889273	80.0	79.2	
59 n-Butanol	56	6.063	6.063	0.000	88	1159448	2000.0	2029.2	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	1462712	80.0	76.0	
64 Methyl methacrylate	41	6.418	6.418	0.000	90	2032269	160.0	149.6	
68 2-Nitropropane	41	6.786	6.786	0.000	98	733507	160.0	153.4	
79 n-Butyl acetate	43	7.829	7.830	-0.001	96	1703938	80.0	75.5	
83 1-Chlorohexane	91	8.422	8.422	0.000	97	1268922	80.0	76.0	
92 Cyclohexanone	55	9.430	9.430	0.000	93	369311	800.0	727.8	
105 Pentachloroethane	167	10.213	10.213	0.000	97	46530	160.0	72.9	
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	2967915	80.0	76.9	
112 Benzyl chloride	126	10.699	10.699	0.000	98	380352	80.0	80.9	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	97	793931	80.0	78.6	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	93	3089739	160.0	191.3	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	2897121	160.0	193.0	

QC Flag Legend
Processing Flags

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmra9w_00439	Amount Added:	64.00	Units: uL

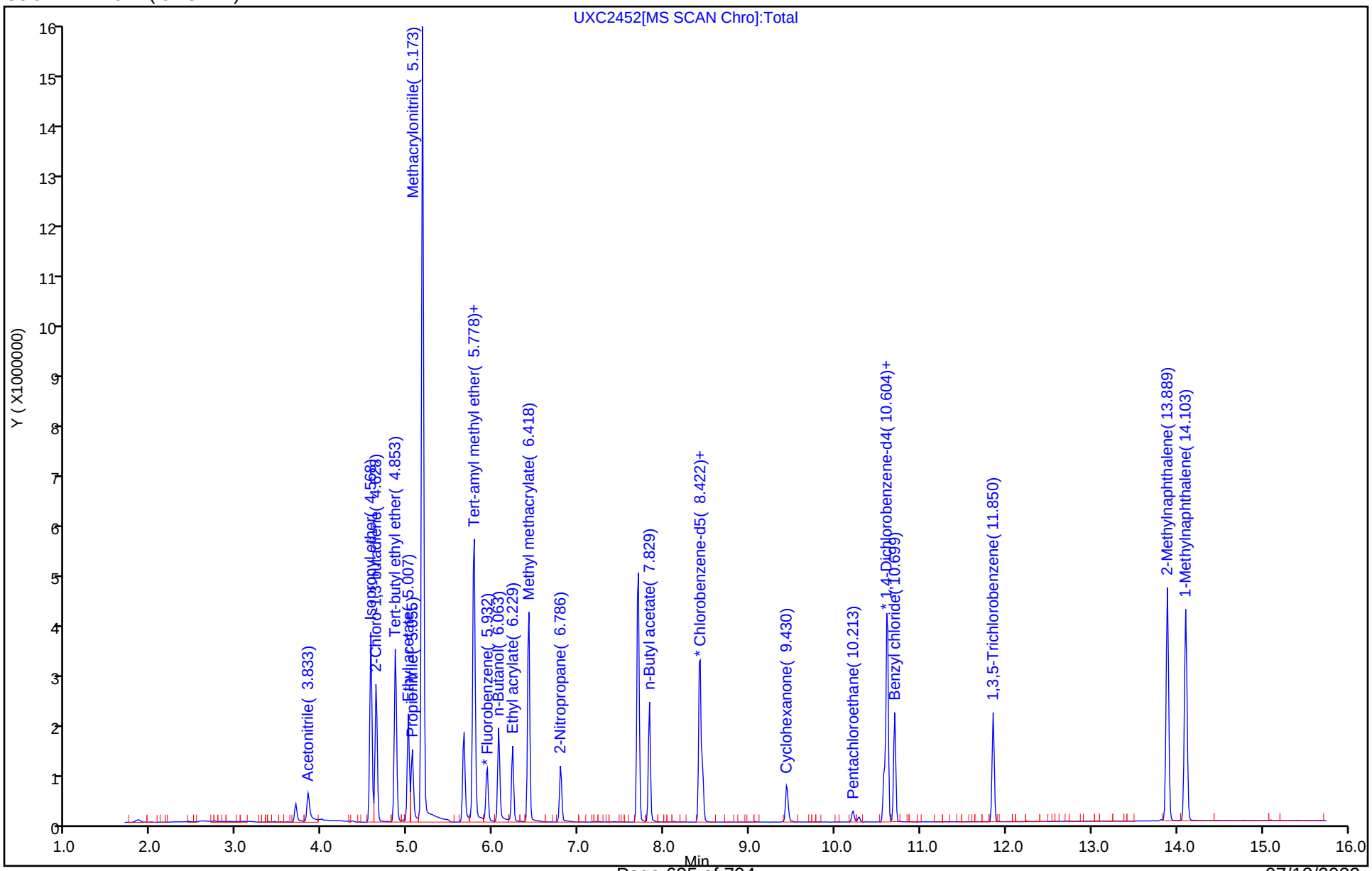
Report Date: 20-Jun-2022 10:43:12 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Injection Date:	17-Jun-2022 22:33:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	stdA9 L7			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

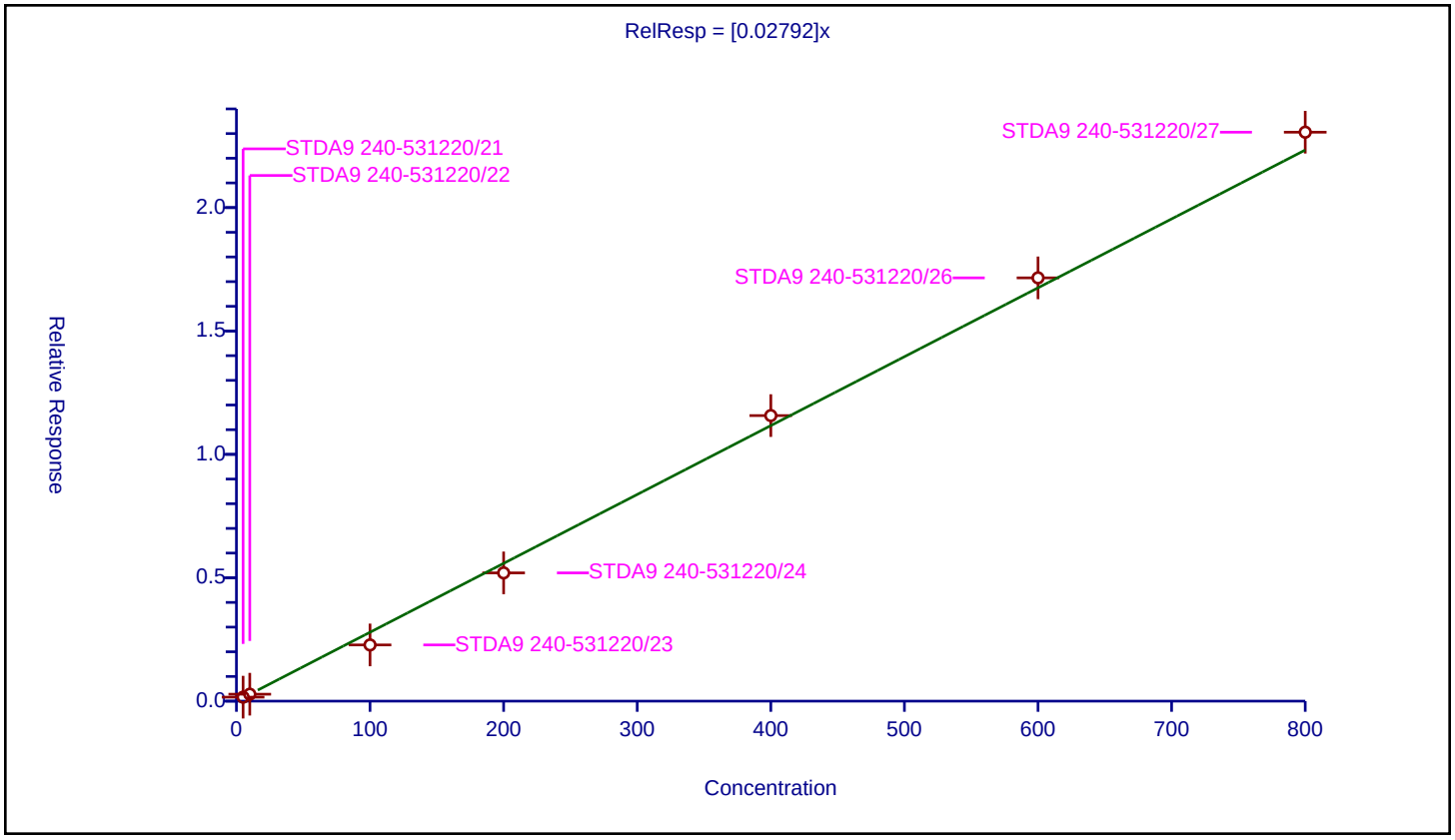
Curve Coefficients

Intercept:	0
Slope:	0.02792

Error Coefficients

Standard Error:	628000
Relative Standard Error:	10.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	5.0	0.160868	20.0	939032.0	0.032174	Y
2	STDA9 240-531220/22	10.0	0.281298	20.0	908291.0	0.02813	Y
3	STDA9 240-531220/23	100.0	2.277986	20.0	864720.0	0.02278	Y
4	STDA9 240-531220/24	200.0	5.197262	20.0	957989.0	0.025986	Y
5	STDA9 240-531220/25	400.0	11.571817	20.0	966569.0	0.02893	Y
6	STDA9 240-531220/26	600.0	17.152584	20.0	974898.0	0.028588	Y
7	STDA9 240-531220/27	800.0	23.055701	20.0	981104.0	0.02882	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

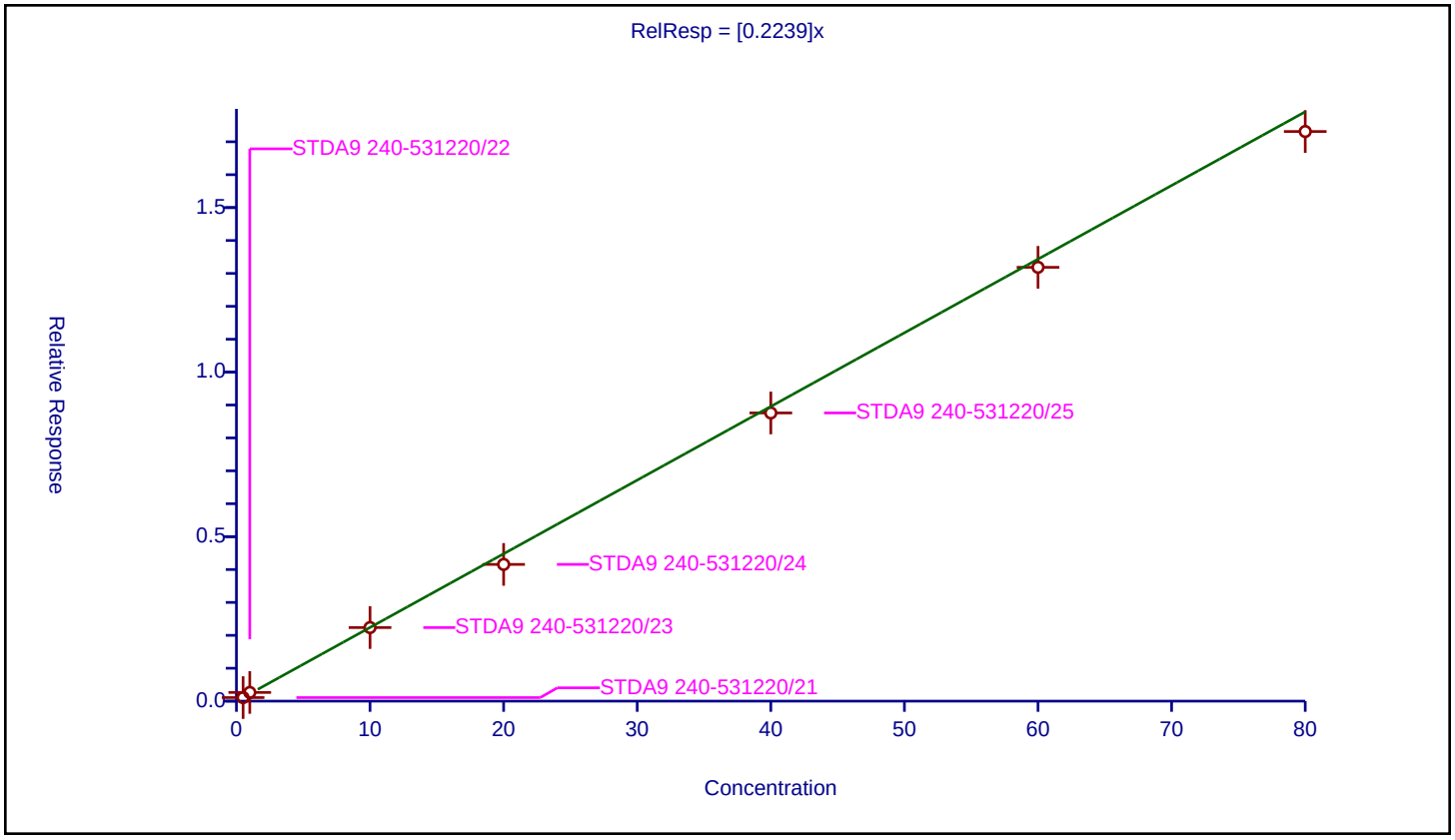
Curve Coefficients

Intercept:	0
Slope:	0.2239

Error Coefficients

Standard Error:	477000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	0.5	0.108282	20.0	939032.0	0.216563	Y
2	STDA9 240-531220/22	1.0	0.264144	20.0	908291.0	0.264144	Y
3	STDA9 240-531220/23	10.0	2.236215	20.0	864720.0	0.223622	Y
4	STDA9 240-531220/24	20.0	4.155747	20.0	957989.0	0.207787	Y
5	STDA9 240-531220/25	40.0	8.759085	20.0	966569.0	0.218977	Y
6	STDA9 240-531220/26	60.0	13.184949	20.0	974898.0	0.219749	Y
7	STDA9 240-531220/27	80.0	17.312905	20.0	981104.0	0.216411	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

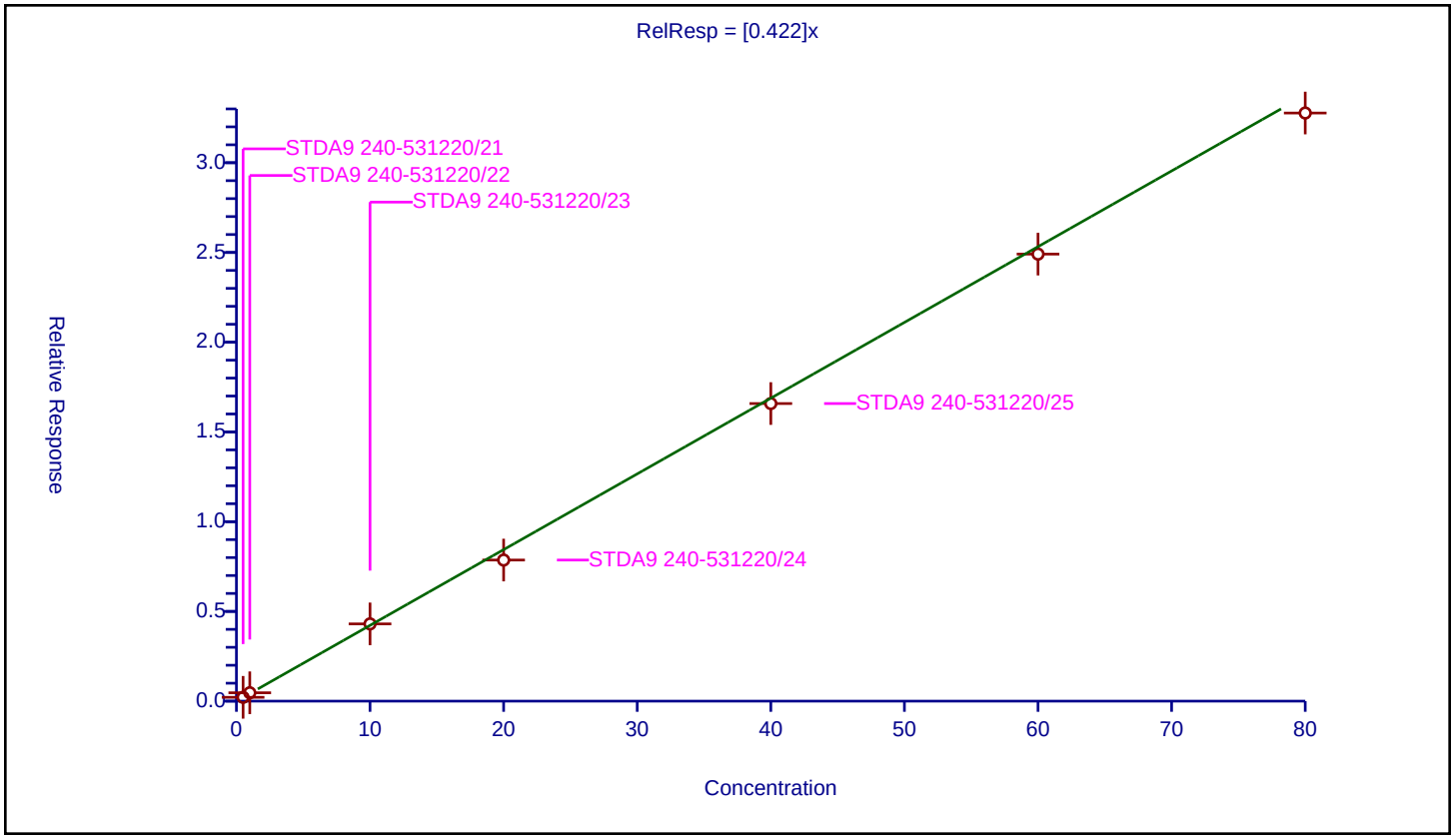
Curve Coefficients

Intercept:	0
Slope:	0.422

Error Coefficients

Standard Error:	902000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	0.5	0.212538	20.0	939032.0	0.425076	Y
2	STDA9 240-531220/22	1.0	0.466282	20.0	908291.0	0.466282	Y
3	STDA9 240-531220/23	10.0	4.305162	20.0	864720.0	0.430516	Y
4	STDA9 240-531220/24	20.0	7.861092	20.0	957989.0	0.393055	Y
5	STDA9 240-531220/25	40.0	16.582158	20.0	966569.0	0.414554	Y
6	STDA9 240-531220/26	60.0	24.909539	20.0	974898.0	0.415159	Y
7	STDA9 240-531220/27	80.0	32.769676	20.0	981104.0	0.409621	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

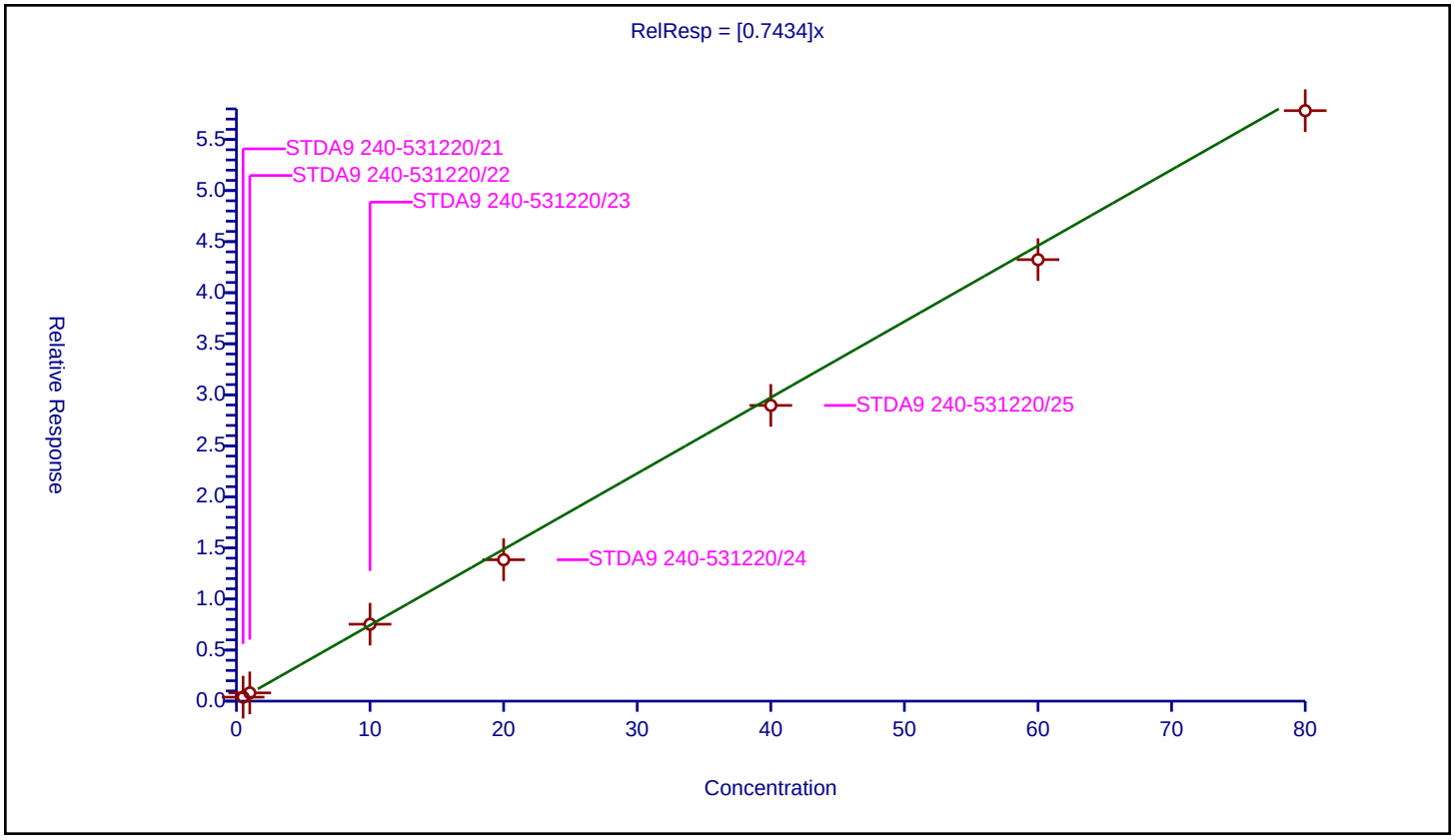
Curve Coefficients

Intercept:	0
Slope:	0.7434

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	0.5	0.39119	20.0	939032.0	0.78238	Y
2	STDA9 240-531220/22	1.0	0.808287	20.0	908291.0	0.808287	Y
3	STDA9 240-531220/23	10.0	7.533421	20.0	864720.0	0.753342	Y
4	STDA9 240-531220/24	20.0	13.846881	20.0	957989.0	0.692344	Y
5	STDA9 240-531220/25	40.0	28.960292	20.0	966569.0	0.724007	Y
6	STDA9 240-531220/26	60.0	43.23638	20.0	974898.0	0.720606	Y
7	STDA9 240-531220/27	80.0	57.826632	20.0	981104.0	0.722833	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

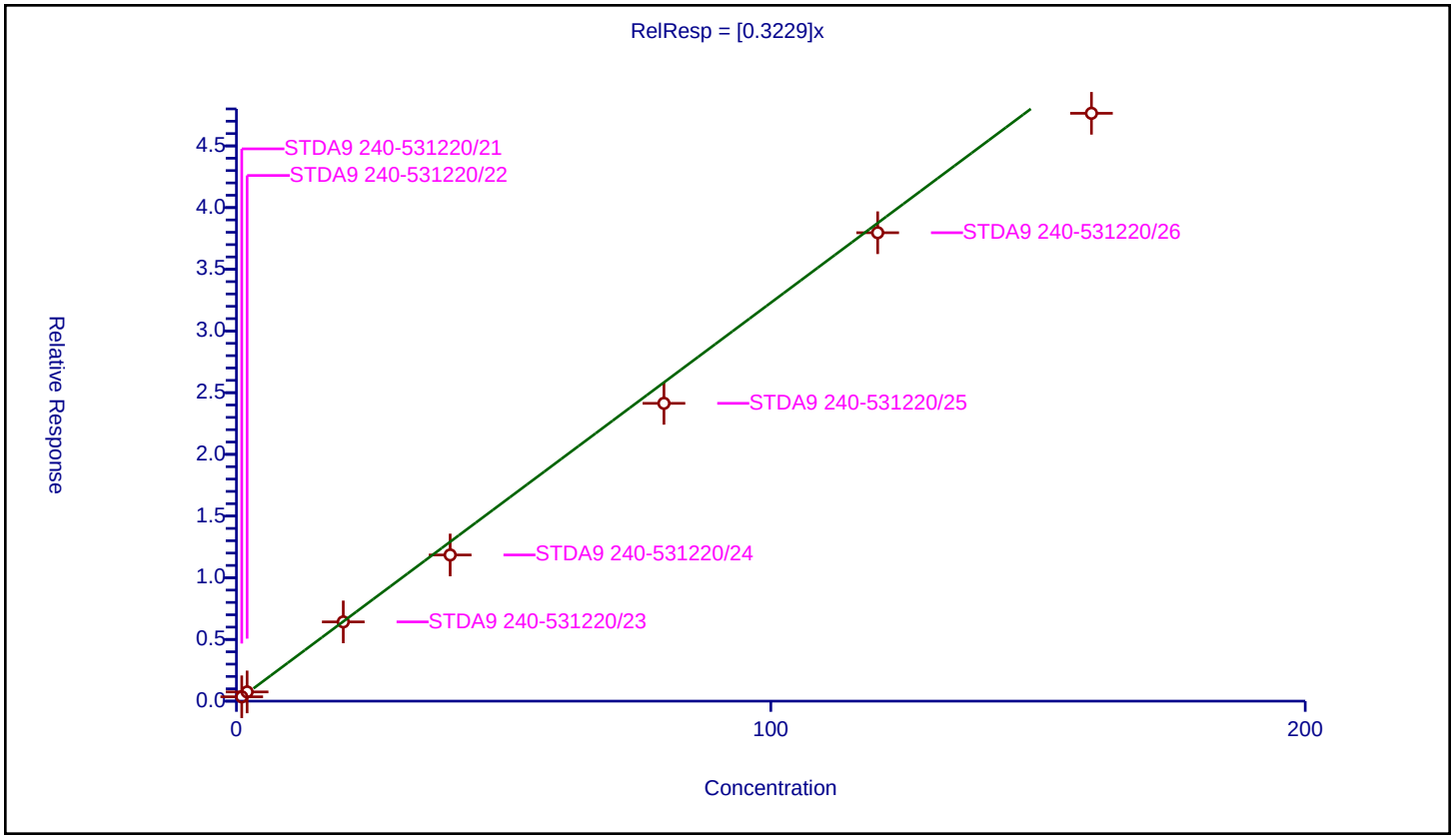
Curve Coefficients

Intercept:	0
Slope:	0.3229

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	9.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	1.0	0.352682	20.0	939032.0	0.352682	Y
2	STDA9 240-531220/22	2.0	0.748659	20.0	908291.0	0.374329	Y
3	STDA9 240-531220/23	20.0	6.423212	20.0	864720.0	0.321161	Y
4	STDA9 240-531220/24	40.0	11.848424	20.0	957989.0	0.296211	Y
5	STDA9 240-531220/25	80.0	24.136942	20.0	966569.0	0.301712	Y
6	STDA9 240-531220/26	120.0	37.964997	20.0	974898.0	0.316375	Y
7	STDA9 240-531220/27	160.0	47.642411	20.0	981104.0	0.297765	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

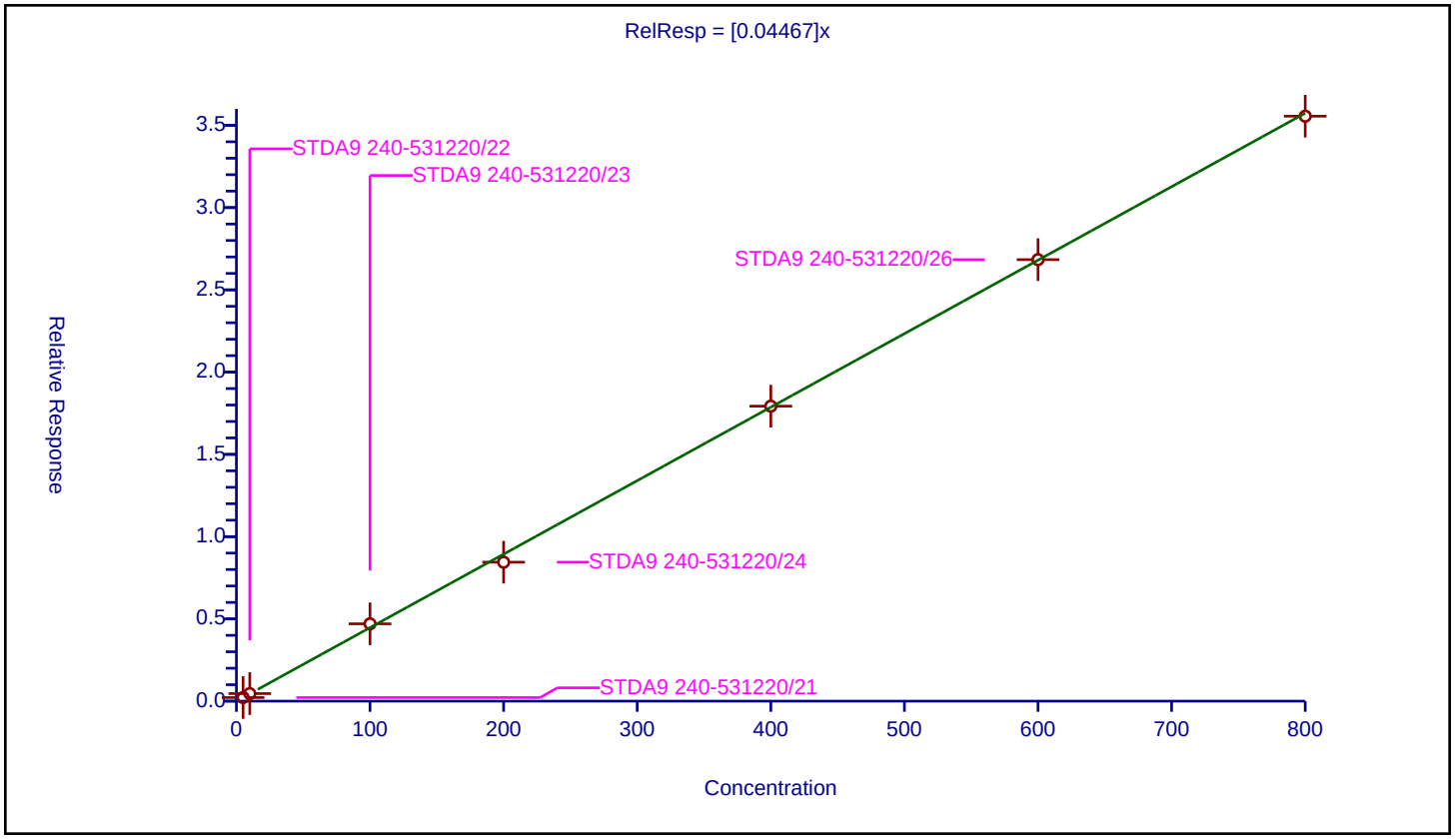
Curve Coefficients

Intercept:	0
Slope:	0.04467

Error Coefficients

Standard Error:	976000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	5.0	0.21814	20.0	939032.0	0.043628	Y
2	STDA9 240-531220/22	10.0	0.458443	20.0	908291.0	0.045844	Y
3	STDA9 240-531220/23	100.0	4.700712	20.0	864720.0	0.047007	Y
4	STDA9 240-531220/24	200.0	8.446736	20.0	957989.0	0.042234	Y
5	STDA9 240-531220/25	400.0	17.931322	20.0	966569.0	0.044828	Y
6	STDA9 240-531220/26	600.0	26.836941	20.0	974898.0	0.044728	Y
7	STDA9 240-531220/27	800.0	35.557148	20.0	981104.0	0.044446	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

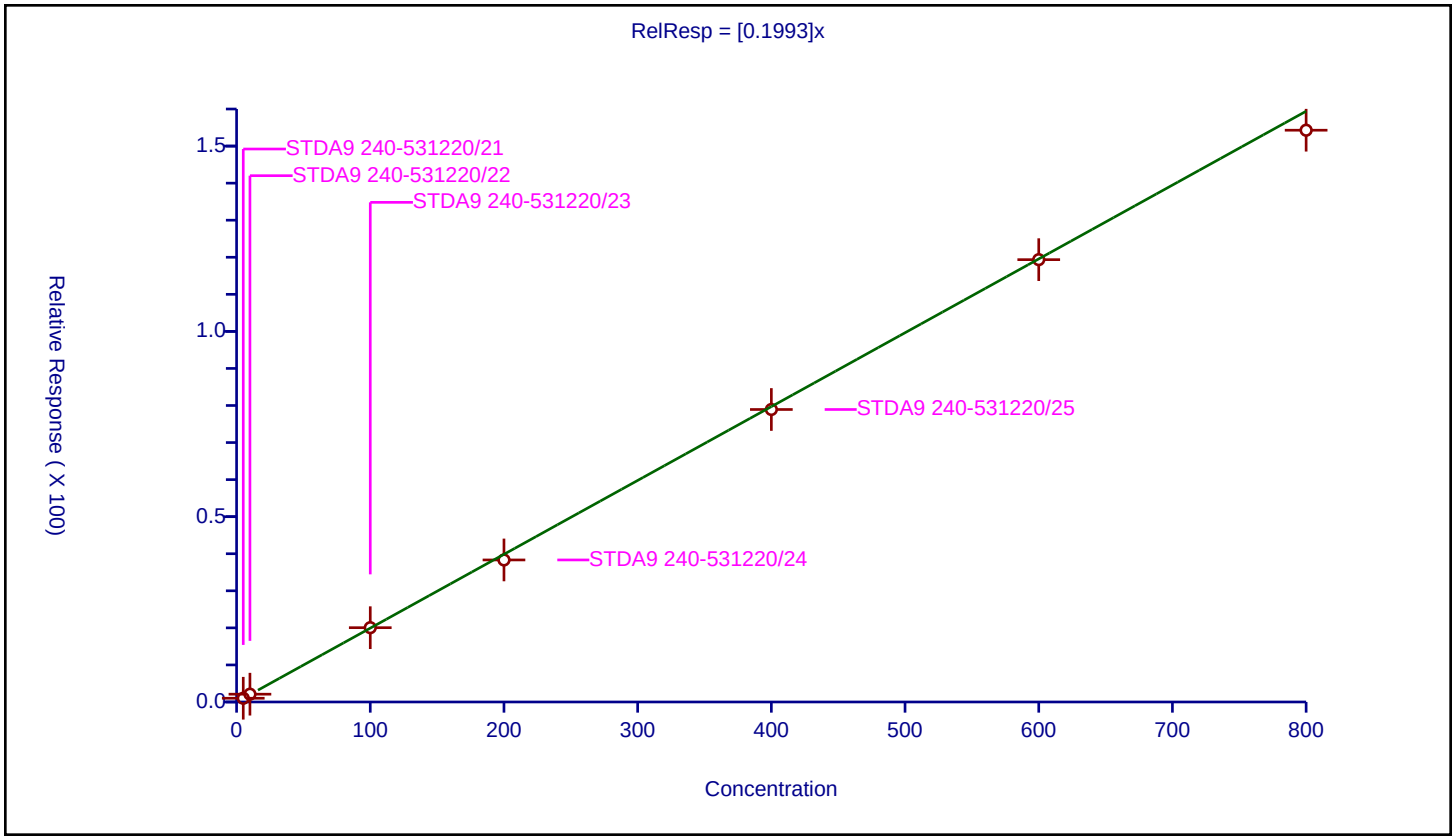
Curve Coefficients

Intercept:	0
Slope:	0.1993

Error Coefficients

Standard Error:	4280000
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	STDA9 240-531220/21	5.0	1.014087	20.0	939032.0	0.202817	Y
2	STDA9 240-531220/22	10.0	2.107386	20.0	908291.0	0.210739	Y
3	STDA9 240-531220/23	100.0	20.051901	20.0	864720.0	0.200519	Y
4	STDA9 240-531220/24	200.0	38.323572	20.0	957989.0	0.191618	Y
5	STDA9 240-531220/25	400.0	78.920719	20.0	966569.0	0.197302	Y
6	STDA9 240-531220/26	600.0	119.354599	20.0	974898.0	0.198924	Y
7	STDA9 240-531220/27	800.0	154.276672	20.0	981104.0	0.192846	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

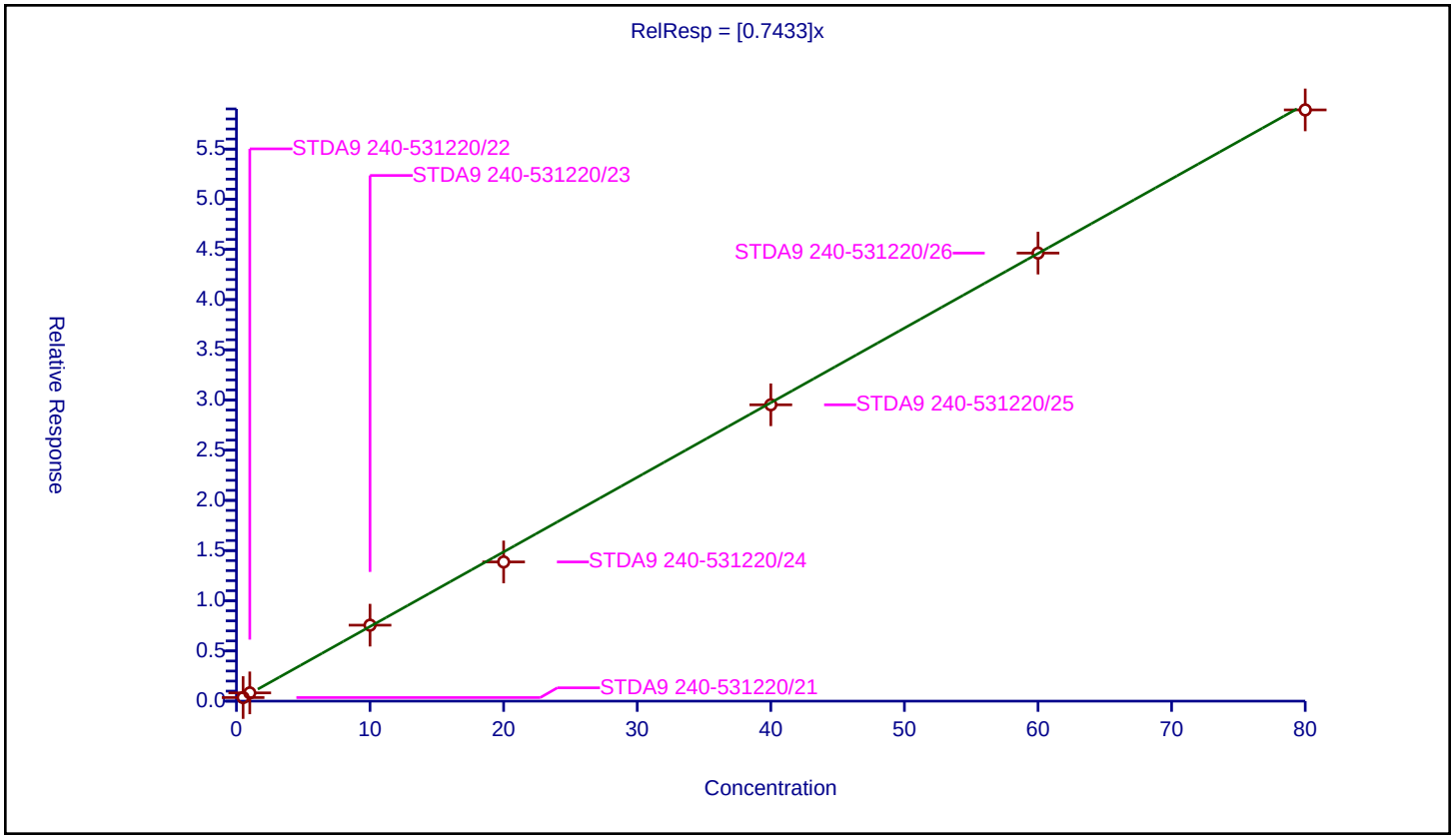
Curve Coefficients

Intercept:	0
Slope:	0.7433

Error Coefficients

Standard Error:	1620000
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	STDA9 240-531220/21	0.5	0.355664	20.0	939032.0	0.711328	Y
2	STDA9 240-531220/22	1.0	0.823282	20.0	908291.0	0.823282	Y
3	STDA9 240-531220/23	10.0	7.568091	20.0	864720.0	0.756809	Y
4	STDA9 240-531220/24	20.0	13.867529	20.0	957989.0	0.693376	Y
5	STDA9 240-531220/25	40.0	29.521534	20.0	966569.0	0.738038	Y
6	STDA9 240-531220/26	60.0	44.635213	20.0	974898.0	0.74392	Y
7	STDA9 240-531220/27	80.0	58.898404	20.0	981104.0	0.73623	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

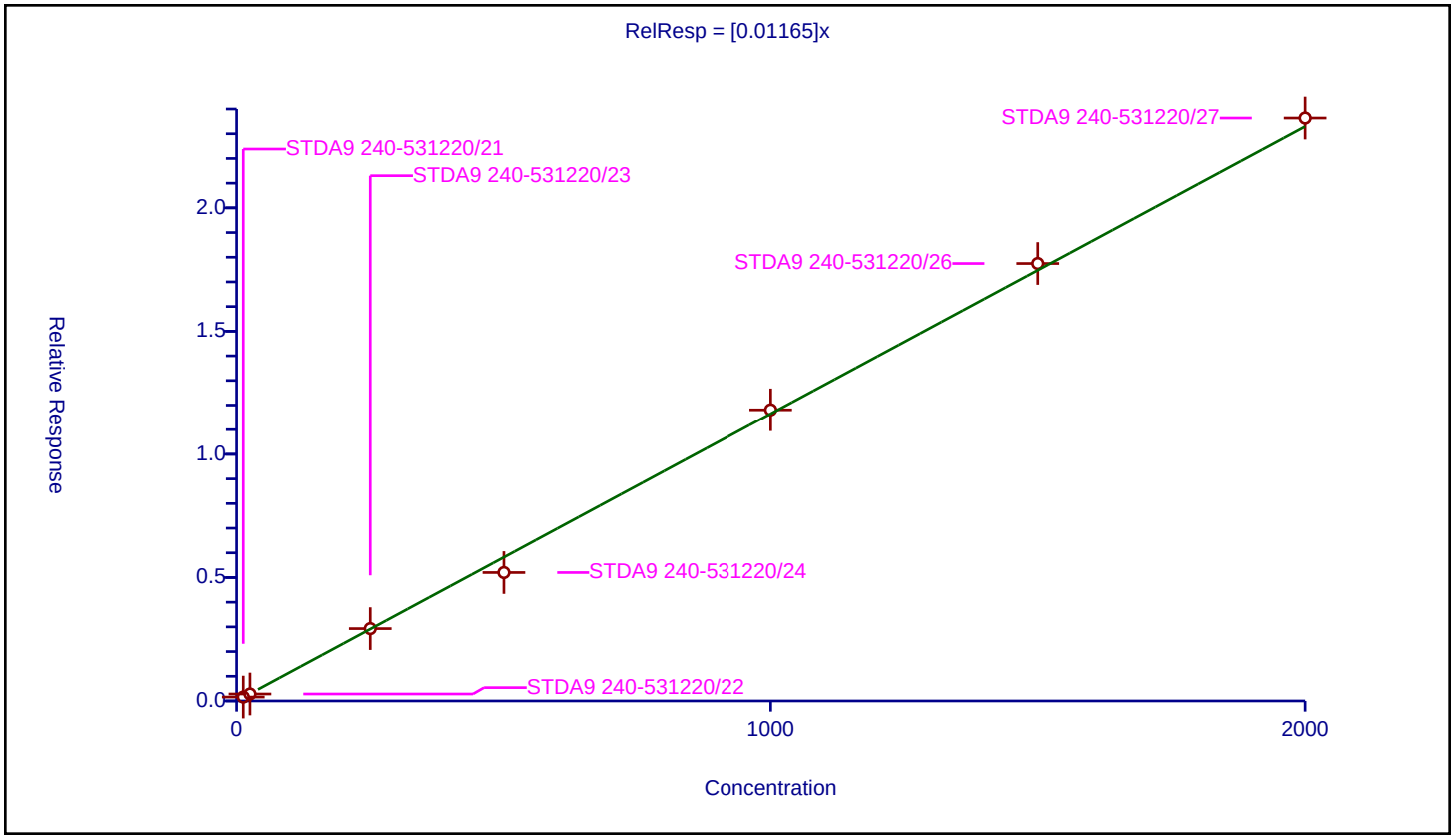
Curve Coefficients

Intercept:	0
Slope:	0.01165

Error Coefficients

Standard Error:	645000
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 240-531220/21	12.5	0.158376	20.0	939032.0	0.01267	Y
2	STDA9 240-531220/22	25.0	0.28187	20.0	908291.0	0.011275	Y
3	STDA9 240-531220/23	250.0	2.931238	20.0	864720.0	0.011725	Y
4	STDA9 240-531220/24	500.0	5.20315	20.0	957989.0	0.010406	Y
5	STDA9 240-531220/25	1000.0	11.808448	20.0	966569.0	0.011808	Y
6	STDA9 240-531220/26	1500.0	17.745344	20.0	974898.0	0.01183	Y
7	STDA9 240-531220/27	2000.0	23.635578	20.0	981104.0	0.011818	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

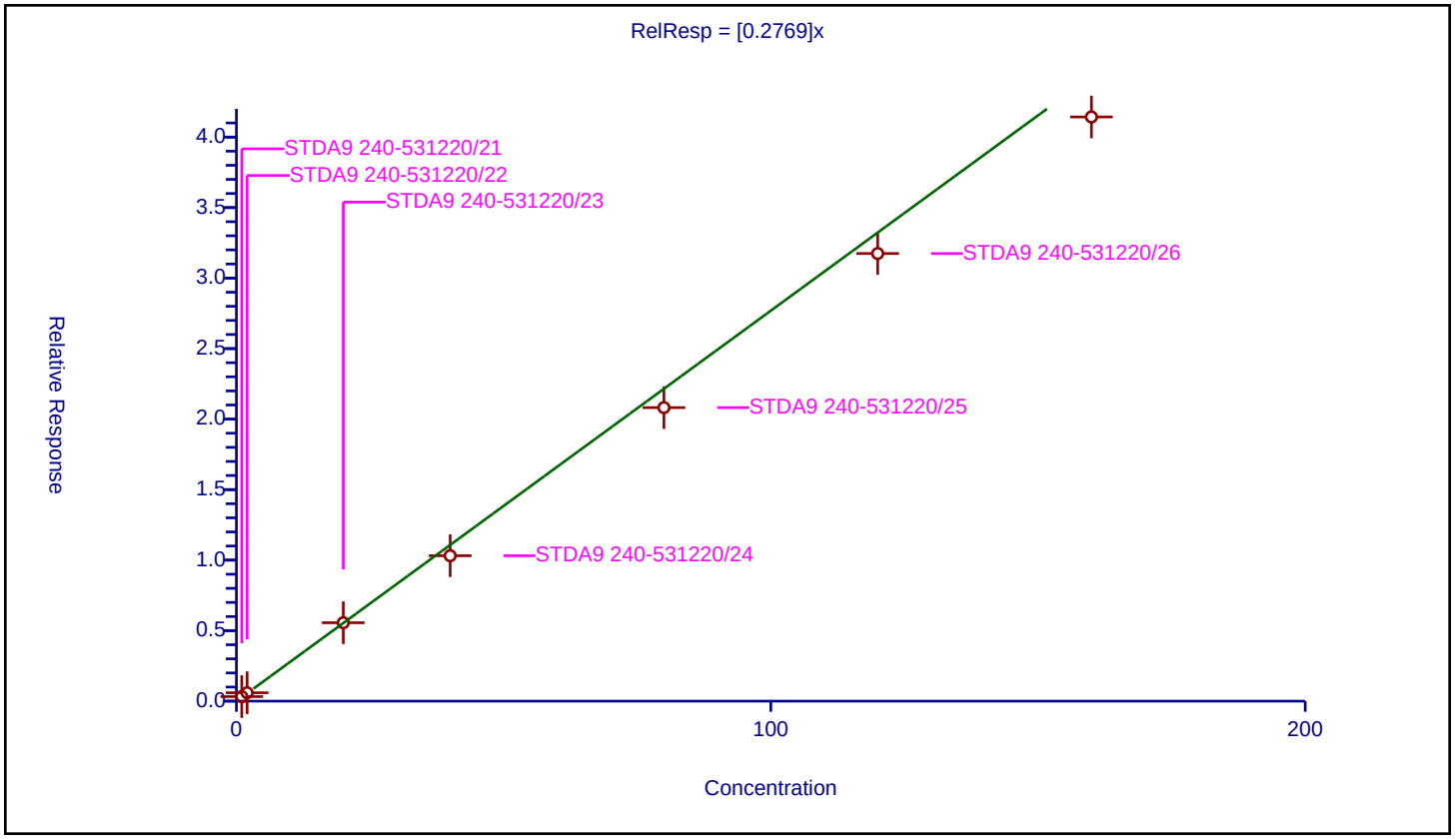
Curve Coefficients

Intercept:	0
Slope:	0.2769

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	1.0	0.322076	20.0	939032.0	0.322076	Y
2	STDA9 240-531220/22	2.0	0.59329	20.0	908291.0	0.296645	Y
3	STDA9 240-531220/23	20.0	5.56113	20.0	864720.0	0.278056	Y
4	STDA9 240-531220/24	40.0	10.311872	20.0	957989.0	0.257797	Y
5	STDA9 240-531220/25	80.0	20.816207	20.0	966569.0	0.260203	Y
6	STDA9 240-531220/26	120.0	31.744634	20.0	974898.0	0.264539	Y
7	STDA9 240-531220/27	160.0	41.428207	20.0	981104.0	0.258926	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

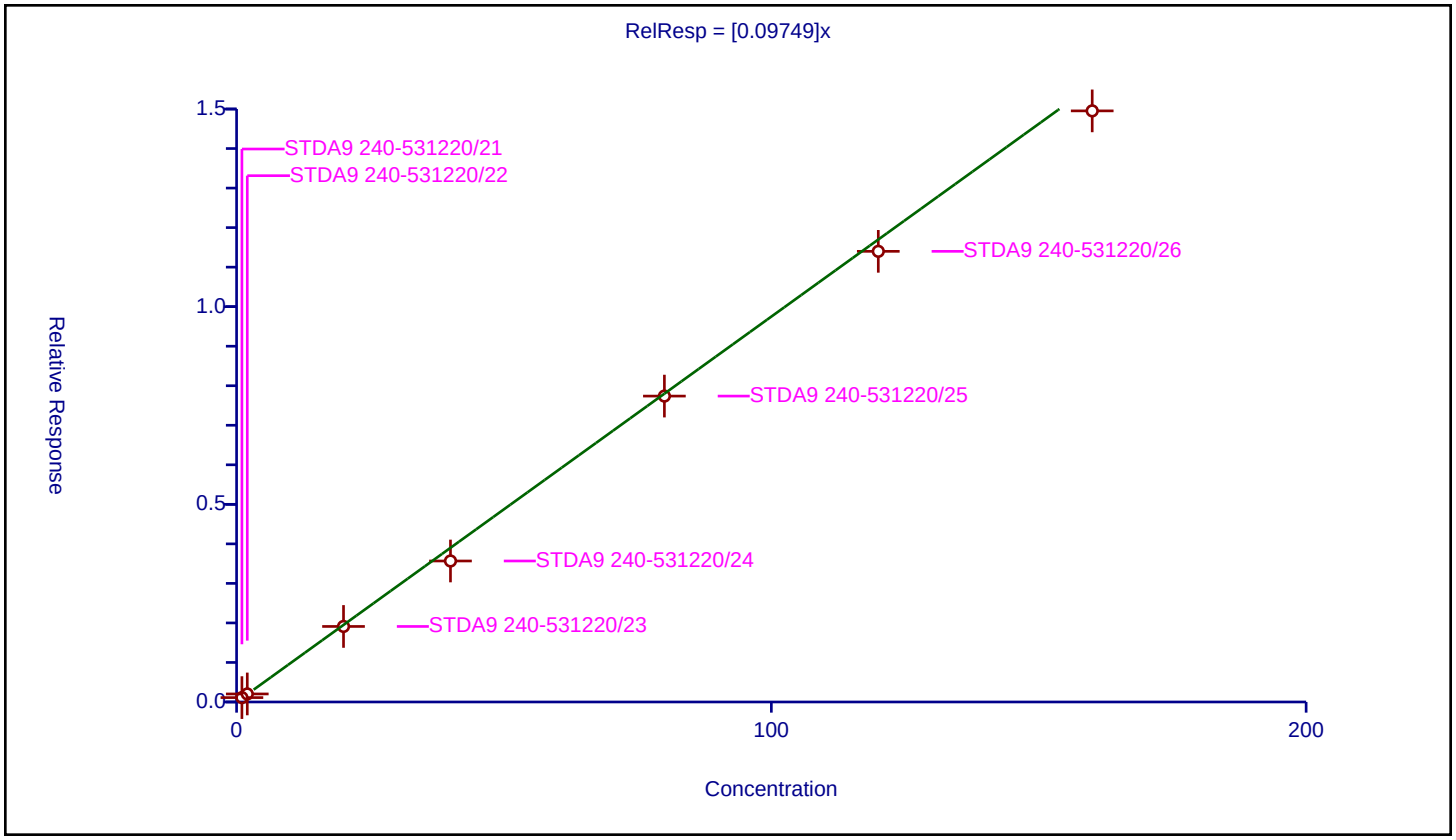
Curve Coefficients

Intercept:	0
Slope:	0.09749

Error Coefficients

Standard Error:	413000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	1.0	0.110731	20.0	939032.0	0.110731	Y
2	STDA9 240-531220/22	2.0	0.203569	20.0	908291.0	0.101785	Y
3	STDA9 240-531220/23	20.0	1.910908	20.0	864720.0	0.095545	Y
4	STDA9 240-531220/24	40.0	3.567097	20.0	957989.0	0.089177	Y
5	STDA9 240-531220/25	80.0	7.738258	20.0	966569.0	0.096728	Y
6	STDA9 240-531220/26	120.0	11.400023	20.0	974898.0	0.095	Y
7	STDA9 240-531220/27	160.0	14.952686	20.0	981104.0	0.093454	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

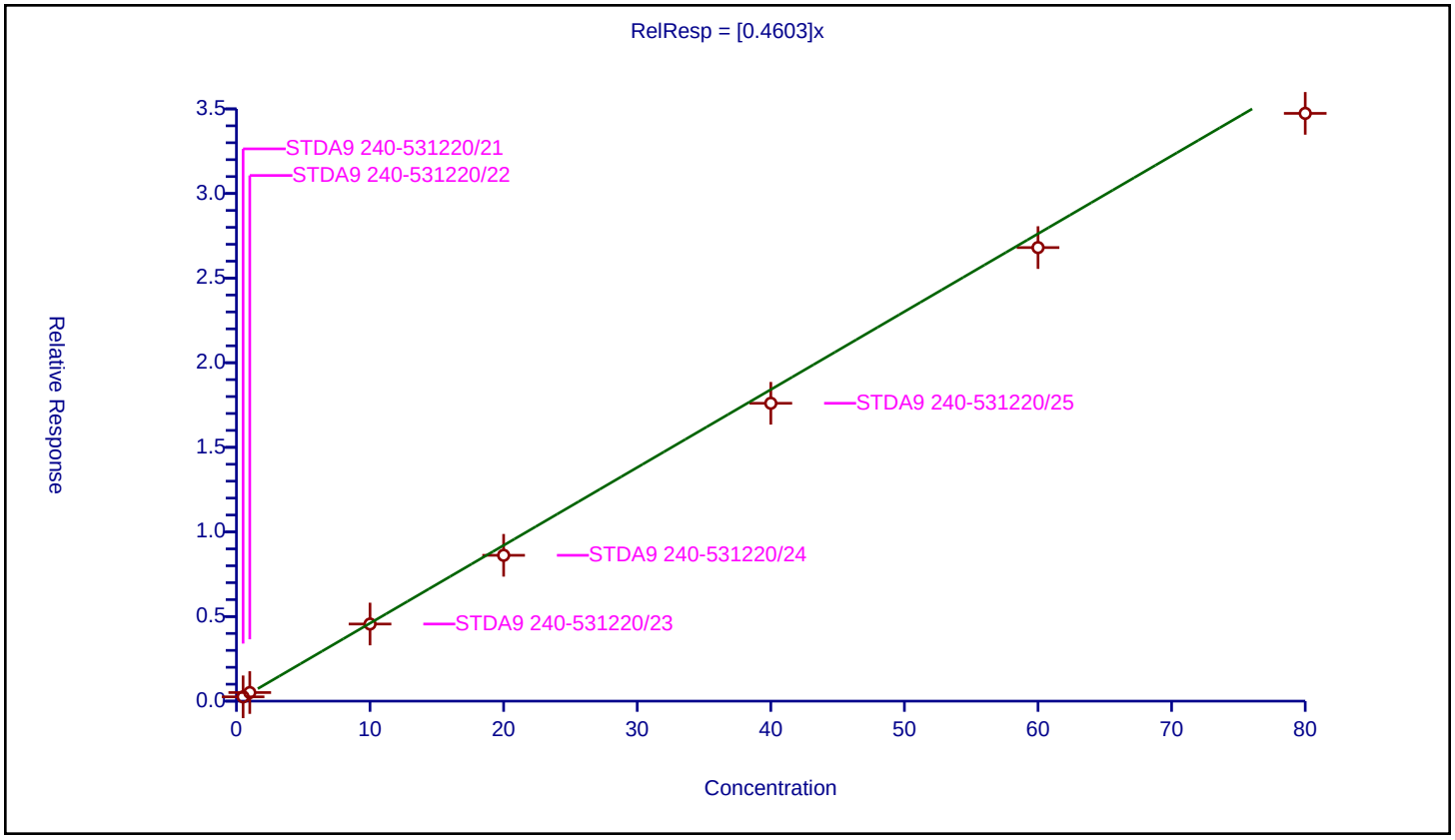
Curve Coefficients

Intercept:	0
Slope:	0.4603

Error Coefficients

Standard Error:	961000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	0.5	0.253665	20.0	939032.0	0.507331	Y
2	STDA9 240-531220/22	1.0	0.507436	20.0	908291.0	0.507436	Y
3	STDA9 240-531220/23	10.0	4.557452	20.0	864720.0	0.455745	Y
4	STDA9 240-531220/24	20.0	8.618742	20.0	957989.0	0.430937	Y
5	STDA9 240-531220/25	40.0	17.602303	20.0	966569.0	0.440058	Y
6	STDA9 240-531220/26	60.0	26.804014	20.0	974898.0	0.446734	Y
7	STDA9 240-531220/27	80.0	34.735115	20.0	981104.0	0.434189	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

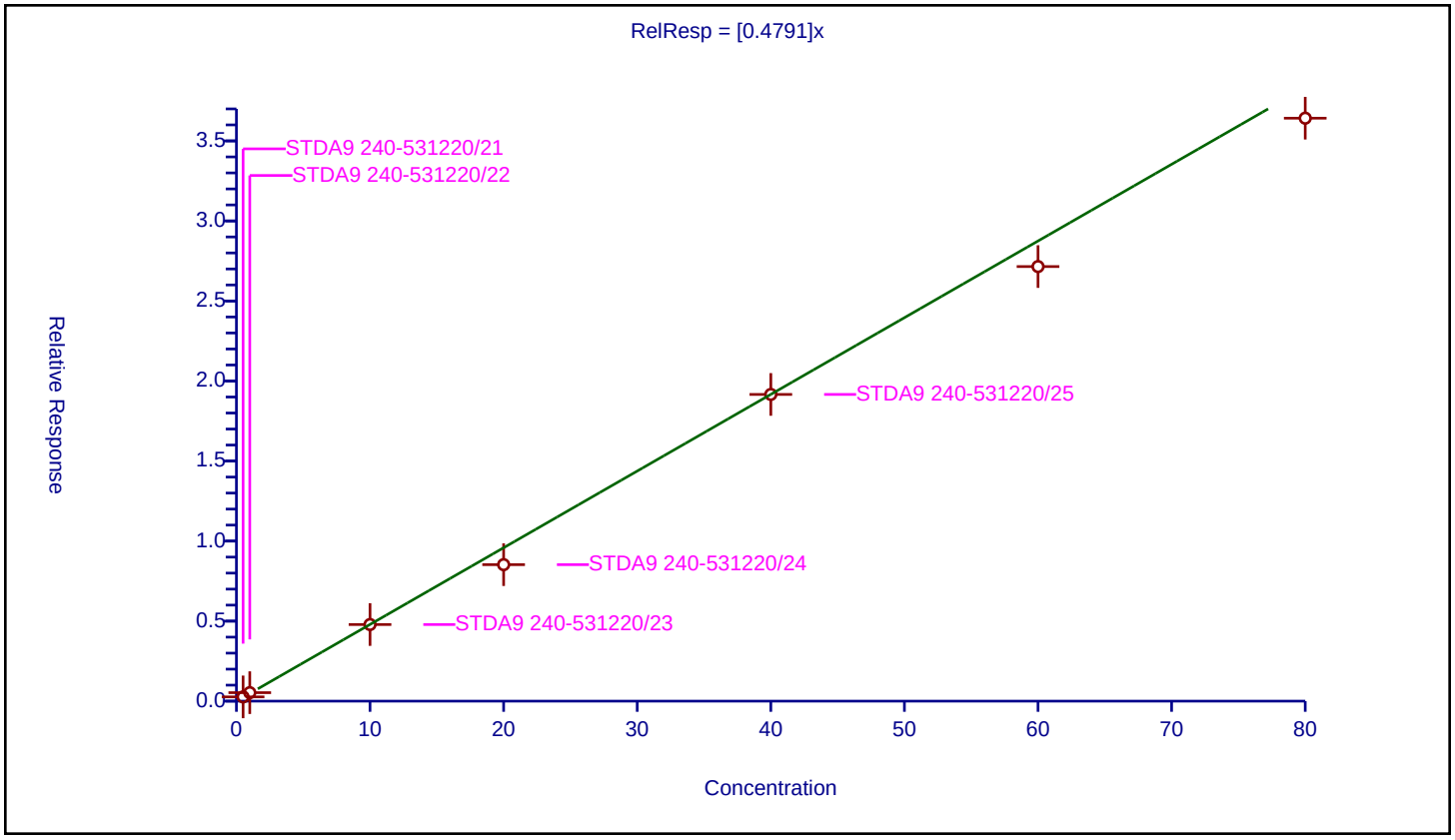
Curve Coefficients

Intercept:	0
Slope:	0.4791

Error Coefficients

Standard Error:	716000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	0.5	0.265766	20.0	676685.0	0.531532	Y
2	STDA9 240-531220/22	1.0	0.53054	20.0	660610.0	0.53054	Y
3	STDA9 240-531220/23	10.0	4.786718	20.0	616343.0	0.478672	Y
4	STDA9 240-531220/24	20.0	8.526117	20.0	699723.0	0.426306	Y
5	STDA9 240-531220/25	40.0	19.161595	20.0	685039.0	0.47904	Y
6	STDA9 240-531220/26	60.0	27.149607	20.0	707762.0	0.452493	Y
7	STDA9 240-531220/27	80.0	36.419374	20.0	696839.0	0.455242	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

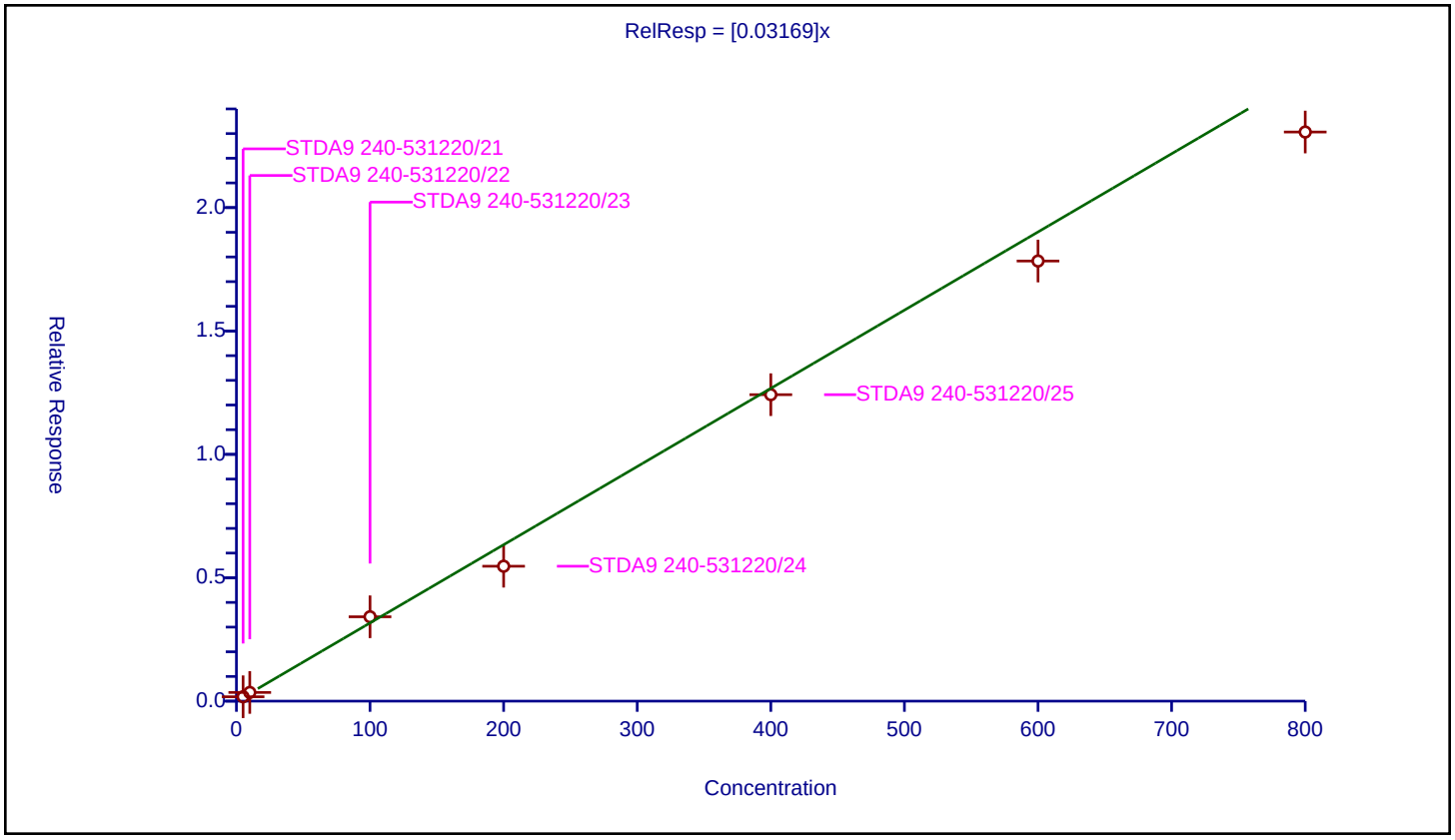
Curve Coefficients

Intercept:	0
Slope:	0.03169

Error Coefficients

Standard Error:	205000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	5.0	0.177143	20.0	305065.0	0.035429	Y
2	STDA9 240-531220/22	10.0	0.352674	20.0	284002.0	0.035267	Y
3	STDA9 240-531220/23	100.0	3.418314	20.0	267079.0	0.034183	Y
4	STDA9 240-531220/24	200.0	5.466795	20.0	306066.0	0.027334	Y
5	STDA9 240-531220/25	400.0	12.41868	20.0	302417.0	0.031047	Y
6	STDA9 240-531220/26	600.0	17.835192	20.0	300350.0	0.029725	Y
7	STDA9 240-531220/27	800.0	23.063415	20.0	320257.0	0.028829	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

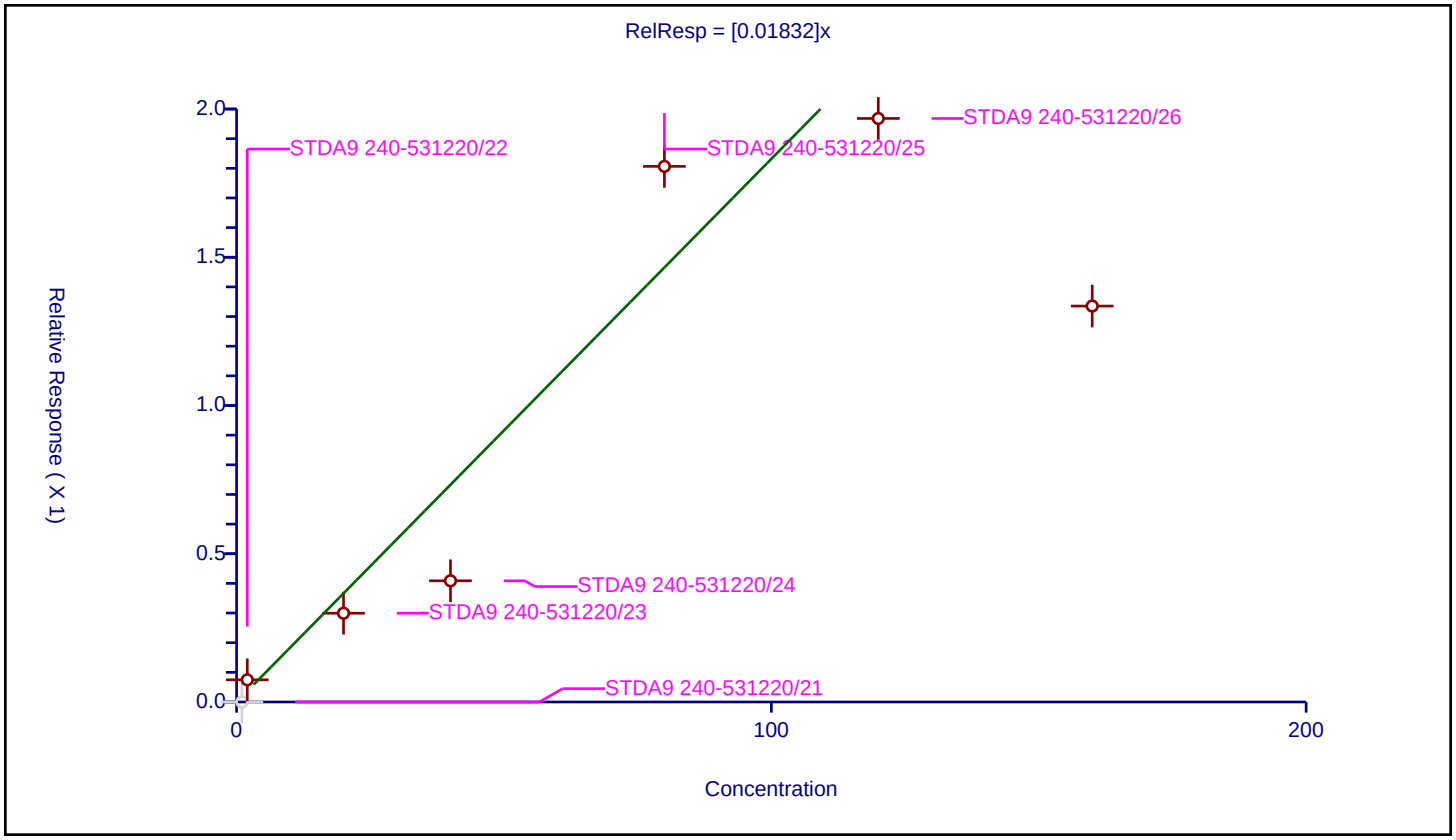
Curve Coefficients

Intercept:	0
Slope:	0.01832

Error Coefficients

Standard Error:	47200
Relative Standard Error:	57.9
Correlation Coefficient:	0.652
Coefficient of Determination (Adjusted):	0.421

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	1.0	0.0	20.0	676685.0	0.0	N
2	STDA9 240-531220/22	2.0	0.074779	20.0	660610.0	0.03739	Y
3	STDA9 240-531220/23	20.0	0.299411	20.0	616343.0	0.014971	Y
4	STDA9 240-531220/24	40.0	0.408762	20.0	699723.0	0.010219	Y
5	STDA9 240-531220/25	80.0	1.806496	20.0	685039.0	0.022581	Y
6	STDA9 240-531220/26	120.0	1.968176	20.0	707762.0	0.016401	Y
7	STDA9 240-531220/27	160.0	1.335459	20.0	696839.0	0.008347	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

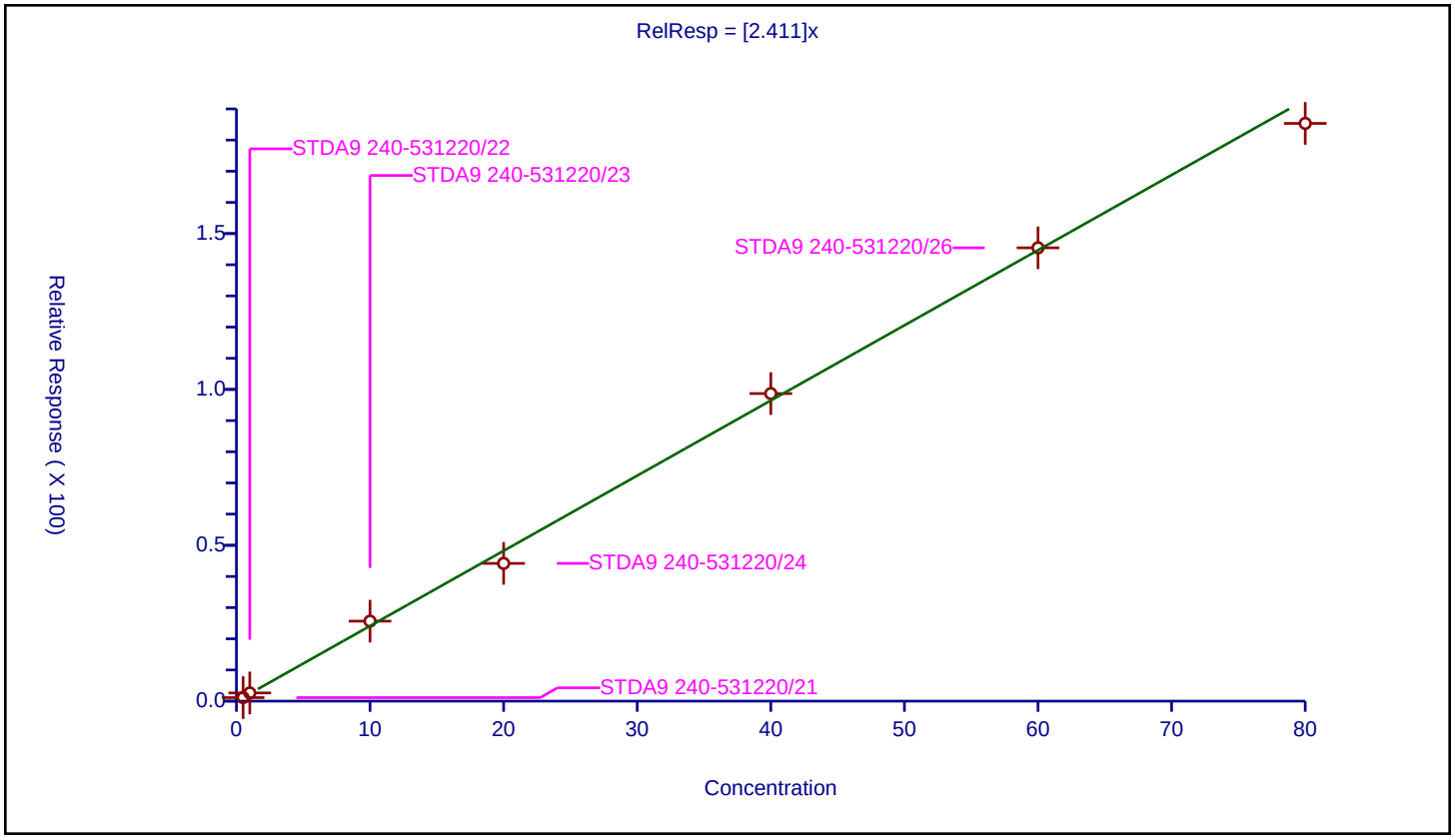
Curve Coefficients

Intercept:	0
Slope:	2.411

Error Coefficients

Standard Error:	1650000
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	STDA9 240-531220/21	0.5	1.132808	20.0	305065.0	2.265616	Y
2	STDA9 240-531220/22	1.0	2.630334	20.0	284002.0	2.630334	Y
3	STDA9 240-531220/23	10.0	25.664991	20.0	267079.0	2.566499	Y
4	STDA9 240-531220/24	20.0	44.184261	20.0	306066.0	2.209213	Y
5	STDA9 240-531220/25	40.0	98.672098	20.0	302417.0	2.466802	Y
6	STDA9 240-531220/26	60.0	145.434127	20.0	300350.0	2.423902	Y
7	STDA9 240-531220/27	80.0	185.345832	20.0	320257.0	2.316823	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

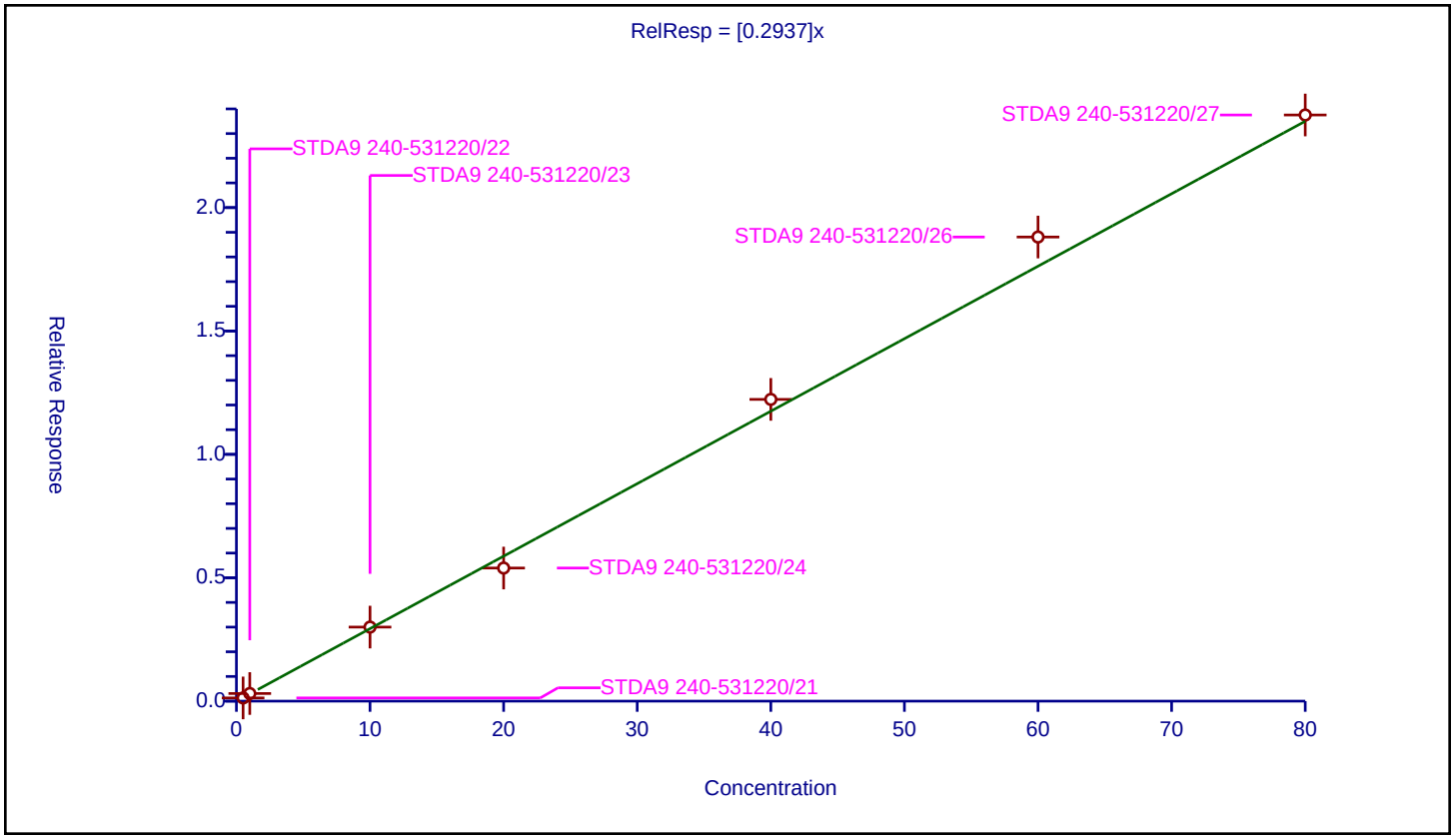
Curve Coefficients

Intercept:	0
Slope:	0.2937

Error Coefficients

Standard Error:	211000
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	STDA9 240-531220/21	0.5	0.130464	20.0	305065.0	0.260928	Y
2	STDA9 240-531220/22	1.0	0.309364	20.0	284002.0	0.309364	Y
3	STDA9 240-531220/23	10.0	3.001359	20.0	267079.0	0.300136	Y
4	STDA9 240-531220/24	20.0	5.393869	20.0	306066.0	0.269693	Y
5	STDA9 240-531220/25	40.0	12.227487	20.0	302417.0	0.305687	Y
6	STDA9 240-531220/26	60.0	18.807325	20.0	300350.0	0.313455	Y
7	STDA9 240-531220/27	80.0	23.752923	20.0	320257.0	0.296912	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

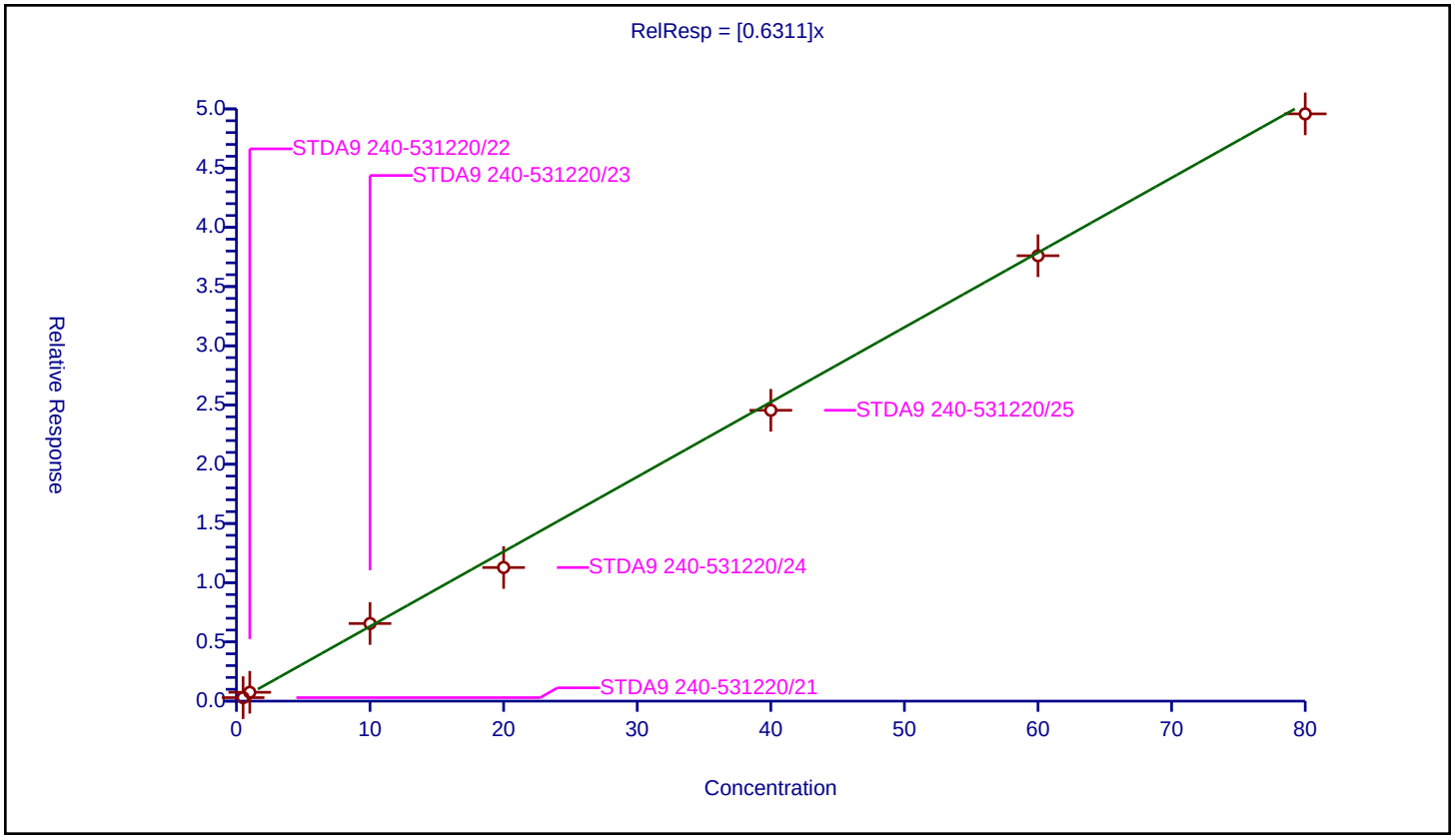
Curve Coefficients

Intercept:	0
Slope:	0.6311

Error Coefficients

Standard Error:	433000
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	STDA9 240-531220/21	0.5	0.295609	20.0	305065.0	0.591218	Y
2	STDA9 240-531220/22	1.0	0.746967	20.0	284002.0	0.746967	Y
3	STDA9 240-531220/23	10.0	6.552893	20.0	267079.0	0.655289	Y
4	STDA9 240-531220/24	20.0	11.282534	20.0	306066.0	0.564127	Y
5	STDA9 240-531220/25	40.0	24.555961	20.0	302417.0	0.613899	Y
6	STDA9 240-531220/26	60.0	37.604661	20.0	300350.0	0.626744	Y
7	STDA9 240-531220/27	80.0	49.580868	20.0	320257.0	0.619761	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

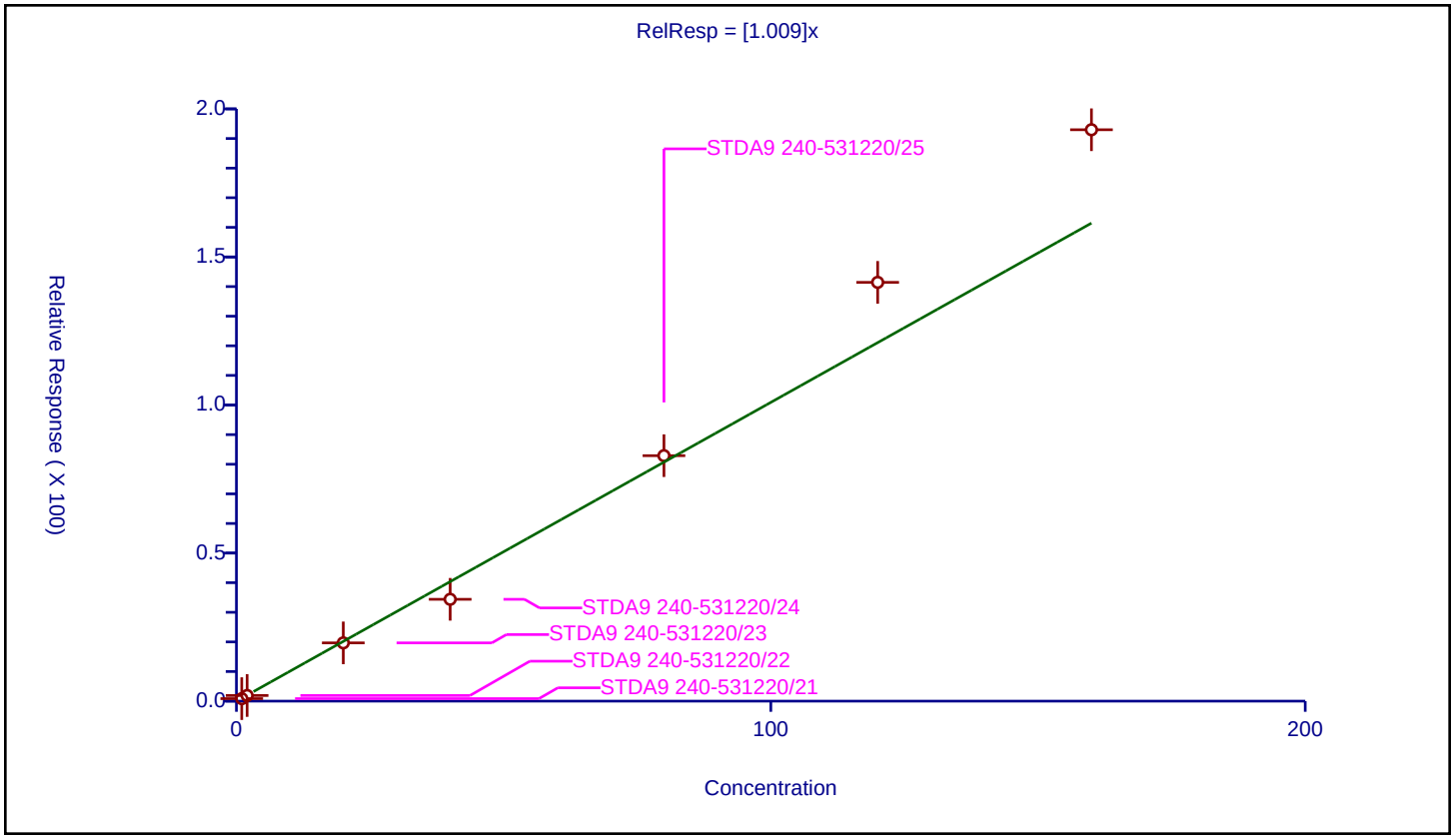
Curve Coefficients

Intercept:	0
Slope:	1.009

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	14.1
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-531220/21	1.0	0.846574	20.0	305065.0	0.846574	Y
2	STDA9 240-531220/22	2.0	1.902592	20.0	284002.0	0.951296	Y
3	STDA9 240-531220/23	20.0	19.678447	20.0	267079.0	0.983922	Y
4	STDA9 240-531220/24	40.0	34.392321	20.0	306066.0	0.859808	Y
5	STDA9 240-531220/25	80.0	82.891769	20.0	302417.0	1.036147	Y
6	STDA9 240-531220/26	120.0	141.42254	20.0	300350.0	1.178521	Y
7	STDA9 240-531220/27	160.0	192.953722	20.0	320257.0	1.205961	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/18 Calibration Date: 06/17/2022 19:01

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2443.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	0.2036	0.1839	0.1000	0.0181	0.0200	-9.7	30.0
Chloromethane	Ave	0.2633	0.2378	0.1000	0.0181	0.0200	-9.7	30.0
Vinyl chloride	Ave	0.2696	0.2630	0.1000	0.0195	0.0200	-2.4	30.0
Butadiene	Ave	0.2717	0.2364		0.0174	0.0200	-13.0	30.0
Bromomethane	Ave	0.2097	0.1877	0.0500	0.0179	0.0200	-10.5	30.0
Chloroethane	Ave	0.1956	0.1852	0.0500	0.0189	0.0200	-5.3	30.0
Dichlorofluoromethane	Ave	0.4434	0.4178		0.0188	0.0200	-5.8	30.0
Trichlorofluoromethane	Ave	0.3739	0.3773	0.1000	0.0202	0.0200	0.9	30.0
Ethyl ether	Ave	0.1994	0.2070		0.0208	0.0200	3.8	30.0
Acrolein	Ave	0.0248	0.0254		0.103	0.100	2.7	30.0
1,1-Dichloroethene	Ave	0.2005	0.2121	0.1000	0.0212	0.0200	5.8	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1374	0.1553	0.0500	0.0226	0.0200	13.1	30.0
Acetone	Lin1		0.0736	0.0100	0.0389	0.0400	-2.8	50.0
Iodomethane	Ave	0.3230	0.3615		0.0224	0.0200	11.9	30.0
Carbon disulfide	Ave	0.5853	0.6445	0.1000	0.0220	0.0200	10.1	30.0
Methyl acetate	Ave	0.2451	0.2308	0.1000	0.0377	0.0400	-5.8	50.0
3-Chloro-1-propene	Ave	0.1612	0.1608		0.0200	0.0200	-0.2	30.0
Methylene Chloride	Lin1		0.2370	0.1000	0.0202	0.0200	1.0	50.0
tert-Butyl alcohol	Ave	0.0275	0.0276		0.200	0.200	0.2	30.0
Acrylonitrile	Ave	0.1016	0.1050		0.207	0.200	3.4	30.0
Methyl tert-butyl ether	Ave	0.6769	0.6902	0.1000	0.0204	0.0200	2.0	30.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2566	0.1000	0.0194	0.0200	-3.0	30.0
Hexane	Ave	0.0609	0.0618		0.0203	0.0200	1.5	30.0
Vinyl acetate	Ave	0.3729	0.3208		0.0172	0.0200	-14.0	30.0
1,1-Dichloroethane	Ave	0.4324	0.4304	0.2000	0.0199	0.0200	-0.5	30.0
2-Butanone	Ave	0.0421	0.0401	0.0100	0.0381	0.0400	-4.8	50.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2702	0.1000	0.0202	0.0200	0.9	30.0
2,2-Dichloropropane	Ave	0.0570	0.0572		0.0201	0.0200	0.3	30.0
Bromochloromethane	Ave	0.1296	0.1278		0.0197	0.0200	-1.4	30.0
Tetrahydrofuran	Ave	0.1026	0.0983		0.0383	0.0400	-4.2	30.0
Chloroform	Ave	0.4205	0.4258	0.2000	0.0203	0.0200	1.3	30.0
1,1,1-Trichloroethane	Ave	0.3616	0.3708	0.1000	0.0205	0.0200	2.5	30.0
Cyclohexane	Ave	0.3672	0.3831	0.1000	0.0209	0.0200	4.3	30.0
1,1-Dichloropropene	Ave	0.3568	0.3487		0.0195	0.0200	-2.3	30.0
Carbon tetrachloride	Ave	0.3272	0.3395	0.1000	0.0208	0.0200	3.8	30.0
Isobutyl alcohol	Ave	0.0110	0.0116		0.523	0.500	4.7	30.0
Benzene	Ave	0.9923	1.012	0.5000	0.0204	0.0200	2.0	30.0
1,2-Dichloroethane	Ave	0.3343	0.3362	0.1000	0.0201	0.0200	0.6	30.0
n-Heptane	Ave	0.0553	0.0550		0.0199	0.0200	-0.6	30.0
Trichloroethene	Ave	0.2793	0.2839	0.1500	0.0203	0.0200	1.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/18 Calibration Date: 06/17/2022 19:01

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2443.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	0.3575	0.3755	0.1000	0.0210	0.0200	5.0	30.0
1,2-Dichloropropane	Ave	0.2324	0.2291	0.1000	0.0197	0.0200	-1.4	30.0
1,4-Dioxane	Ave	0.0024	0.0027		0.458	0.400	14.6	50.0
Dibromomethane	Ave	0.1473	0.1428		0.0194	0.0200	-3.0	30.0
Bromodichloromethane	Ave	0.3083	0.3044	0.1500	0.0197	0.0200	-1.3	30.0
2-Chloroethyl vinyl ether	Ave	0.1741	0.1644		0.0189	0.0200	-5.6	30.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3704	0.1500	0.0196	0.0200	-1.9	50.0
4-Methyl-2-pentanone	Ave	0.3120	0.3015	0.0500	0.0387	0.0400	-3.4	50.0
Toluene	Ave	1.486	1.419	0.4000	0.0191	0.0200	-4.5	30.0
trans-1,3-Dichloropropene	Ave	0.4889	0.4800	0.1000	0.0196	0.0200	-1.8	30.0
Ethyl methacrylate	Ave	0.4694	0.4580		0.0195	0.0200	-2.4	30.0
1,1,2-Trichloroethane	Ave	0.2863	0.2840	0.1000	0.0198	0.0200	-0.8	30.0
Tetrachloroethene	Ave	0.2892	0.2927	0.1500	0.0202	0.0200	1.2	30.0
1,3-Dichloropropane	Ave	0.5046	0.5007		0.0198	0.0200	-0.8	30.0
2-Hexanone	Ave	0.3226	0.3167	0.0500	0.0393	0.0400	-1.8	50.0
Dibromochloromethane	Ave	0.3155	0.3179		0.0202	0.0200	0.8	30.0
1,2-Dibromoethane	Ave	0.3099	0.2970		0.0192	0.0200	-4.2	30.0
Chlorobenzene	Ave	0.9126	0.9020	0.3000	0.0198	0.0200	-1.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2978	0.3028		0.0203	0.0200	1.7	30.0
Ethylbenzene	Ave	0.5027	0.5021		0.0200	0.0200	-0.1	30.0
m-Xylene & p-Xylene	Ave	1.183	1.179		0.0199	0.0200	-0.3	30.0
o-Xylene	Ave	0.5690	0.5659		0.0199	0.0200	-0.5	30.0
Styrene	Ave	0.9710	0.9522	0.3000	0.0196	0.0200	-1.9	30.0
Bromoform	Ave	0.2255	0.2172	0.1000	0.0193	0.0200	-3.7	30.0
Isopropylbenzene	Ave	1.401	1.403	0.1000	0.0200	0.0200	0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7873	0.7416	0.3000	0.0188	0.0200	-5.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2855	0.2735		0.0192	0.0200	-4.2	30.0
Bromobenzene	Ave	0.7492	0.7275		0.0194	0.0200	-2.9	30.0
1,2,3-Trichloropropane	Ave	0.2777	0.2708		0.0195	0.0200	-2.5	30.0
n-Propylbenzene	Ave	0.8157	0.7944		0.0195	0.0200	-2.6	30.0
2-Chlorotoluene	Ave	0.6877	0.6736		0.0196	0.0200	-2.0	30.0
1,3,5-Trimethylbenzene	Ave	2.223	2.159		0.0194	0.0200	-2.9	30.0
4-Chlorotoluene	Ave	2.113	2.054		0.0194	0.0200	-2.8	30.0
tert-Butylbenzene	Ave	1.938	1.897		0.0196	0.0200	-2.1	30.0
1,2,4-Trimethylbenzene	Ave	2.207	2.172		0.0197	0.0200	-1.6	30.0
sec-Butylbenzene	Ave	2.539	2.488		0.0196	0.0200	-2.0	30.0
1,3-Dichlorobenzene	Ave	1.279	1.239	0.6000	0.0194	0.0200	-3.1	30.0
p-Isopropyltoluene	Ave	2.175	2.151		0.0198	0.0200	-1.1	30.0
1,4-Dichlorobenzene	Ave	1.309	1.266	0.5000	0.0193	0.0200	-3.3	30.0
n-Butylbenzene	Ave	1.730	1.691		0.0195	0.0200	-2.3	30.0
1,2-Dichlorobenzene	Ave	1.135	1.090	0.4000	0.0192	0.0200	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/18 Calibration Date: 06/17/2022 19:01

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2443.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	0.1962	0.1724	0.0500	0.0176	0.0200	-12.2	50.0
1,2,4-Trichlorobenzene	Ave	0.5120	0.4797	0.2000	0.0187	0.0200	-6.3	50.0
Hexachlorobutadiene	Ave	0.2294	0.2343		0.0204	0.0200	2.2	50.0
Naphthalene	Ave	1.819	1.745		0.0192	0.0200	-4.1	50.0
1,2,3-Trichlorobenzene	Ave	0.4464	0.4195		0.0188	0.0200	-6.0	30.0
Dibromofluoromethane (Surr)	Ave	0.2320	0.2080		0.0179	0.0200	-10.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2523		0.0173	0.0200	-13.3	30.0
Toluene-d8 (Surr)	Ave	1.337	1.191		0.0178	0.0200	-10.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4446		0.0190	0.0200	-4.8	30.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2443.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 17-Jun-2022 19:01:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-018
Operator ID: 001904 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:43:50 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: bosworthh Date: 20-Jun-2022 09:23:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	1011430	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	90	740290	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.581	10.569	0.012	93	362318	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	93	210360	20.0	17.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	255187	20.0	17.3	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	881442	20.0	17.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.501	9.502	-0.001	93	329156	20.0	19.0	
9 Dichlorodifluoromethane	85	2.042	2.043	-0.001	99	185987	20.0	18.1	
10 Chloromethane	50	2.268	2.268	0.000	99	240543	20.0	18.1	
11 Vinyl chloride	62	2.386	2.387	-0.001	98	266053	20.0	19.5	
12 Butadiene	54	2.422	2.422	0.000	99	239074	20.0	17.4	
13 Bromomethane	94	2.742	2.754	-0.012	92	189834	20.0	17.9	
14 Chloroethane	64	2.849	2.849	0.000	100	187305	20.0	18.9	
15 Dichlorofluoromethane	67	3.062	3.063	-0.001	97	422555	20.0	18.8	
16 Trichlorofluoromethane	101	3.074	3.074	0.000	98	381655	20.0	20.2	
17 Ethyl ether	59	3.335	3.335	0.000	91	209403	20.0	20.8	
18 Acrolein	56	3.466	3.466	0.000	99	128569	100.0	102.7	
19 1,1-Dichloroethene	96	3.560	3.561	-0.001	98	214479	20.0	21.2	
20 112TCTFE	151	3.572	3.572	0.000	92	157125	20.0	22.6	
21 Acetone	43	3.584	3.584	0.000	99	148977	40.0	38.9	
22 Iodomethane	142	3.703	3.703	0.000	99	365665	20.0	22.4	
24 Carbon disulfide	76	3.774	3.774	0.000	100	651877	20.0	22.0	
27 Methyl acetate	43	3.857	3.857	0.000	97	466919	40.0	37.7	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	89	162673	20.0	20.0	
28 Methylene Chloride	84	3.987	3.988	-0.001	92	239685	20.0	20.2	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	99	278688	200.0	200.3	
30 Acrylonitrile	53	4.177	4.177	0.000	99	1061987	200.0	206.8	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	96	698116	20.0	20.4	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	99	259582	20.0	19.4	
34 Hexane	86	4.426	4.426	0.000	92	62463	20.0	20.3	
36 Vinyl acetate	43	4.545	4.545	0.000	97	324510	20.0	17.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.568	4.569	-0.001	96	435299	20.0	19.9	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	81182	40.0	38.1	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	82	273243	20.0	20.2	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	90	57876	20.0	20.1	
46 Chlorobromomethane	128	5.209	5.209	0.000	94	129261	20.0	19.7	
47 Tetrahydrofuran	42	5.221	5.221	0.000	87	198831	40.0	38.3	
48 Chloroform	83	5.280	5.268	0.012	94	430700	20.0	20.3	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	375000	20.0	20.5	
50 Cyclohexane	56	5.493	5.494	-0.001	88	387456	20.0	20.9	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	97	352703	20.0	19.5	
52 Carbon tetrachloride	117	5.553	5.553	0.000	92	343420	20.0	20.8	
53 Isobutyl alcohol	41	5.553	5.553	0.000	92	292064	500.0	523.3	
55 Benzene	78	5.707	5.707	0.000	97	1023779	20.0	20.4	
56 1,2-Dichloroethane	62	5.742	5.743	-0.001	97	340059	20.0	20.1	
58 n-Heptane	100	5.896	5.885	0.011	90	55631	20.0	19.9	
60 Trichloroethene	130	6.217	6.217	0.000	97	287134	20.0	20.3	
62 Methylcyclohexane	83	6.406	6.407	-0.001	90	379776	20.0	21.0	
63 1,2-Dichloropropane	63	6.418	6.419	0.000	93	231769	20.0	19.7	
66 1,4-Dioxane	88	6.466	6.466	0.000	91	54598	400.0	458.3	
65 Dibromomethane	93	6.501	6.502	-0.001	91	144433	20.0	19.4	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	307858	20.0	19.7	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	94	166315	20.0	18.9	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	94	374623	20.0	19.6	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.071	-0.012	96	609833	40.0	38.7	
72 Toluene	91	7.260	7.260	0.000	98	1050407	20.0	19.1	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	97	355368	20.0	19.6	
74 Ethyl methacrylate	69	7.438	7.438	0.000	89	339040	20.0	19.5	
75 1,1,2-Trichloroethane	97	7.604	7.604	0.000	91	210264	20.0	19.8	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	216657	20.0	20.2	
77 1,3-Dichloropropane	76	7.746	7.747	-0.001	96	370678	20.0	19.8	
78 2-Hexanone	43	7.758	7.759	-0.001	96	468957	40.0	39.3	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	235322	20.0	20.2	
82 Ethylene Dibromide	107	8.055	8.055	0.000	98	219851	20.0	19.2	
84 Chlorobenzene	112	8.482	8.482	0.000	97	667705	20.0	19.8	
86 Ethylbenzene	106	8.541	8.541	0.000	98	371665	20.0	20.0	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	224196	20.0	20.3	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	873037	20.0	19.9	
88 o-Xylene	106	9.003	9.004	-0.001	96	418935	20.0	19.9	
89 Styrene	104	9.015	9.016	-0.001	93	704899	20.0	19.6	
90 Bromoform	173	9.205	9.205	0.000	98	160767	20.0	19.3	
91 Isopropylbenzene	105	9.324	9.324	0.000	96	1038805	20.0	20.0	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	95	268688	20.0	18.8	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	72	99084	20.0	19.2	
95 Bromobenzene	156	9.644	9.644	0.000	95	263582	20.0	19.4	
96 1,2,3-Trichloropropane	110	9.668	9.668	0.000	80	98108	20.0	19.5	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	287820	20.0	19.5	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	244064	20.0	19.6	
101 1,3,5-Trimethylbenzene	105	9.869	9.857	0.012	94	782125	20.0	19.4	
102 4-Chlorotoluene	91	9.917	9.917	0.000	97	744341	20.0	19.4	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	687363	20.0	19.6	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	95	786974	20.0	19.7	
107 sec-Butylbenzene	105	10.367	10.367	0.000	95	901501	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
108 1,3-Dichlorobenzene	146	10.509	10.510	-0.001	74	448997	20.0	19.4	
109 4-Isopropyltoluene	119	10.509	10.510	-0.001	97	779443	20.0	19.8	
110 1,4-Dichlorobenzene	146	10.604	10.593	0.011	96	458750	20.0	19.3	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	612531	20.0	19.5	
114 1,2-Dichlorobenzene	146	10.948	10.937	0.011	98	395009	20.0	19.2	
115 1,2-Dibromo-3-Chloropropane	157	11.683	11.684	-0.001	86	62446	20.0	17.6	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	173819	20.0	18.7	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	96	84893	20.0	20.4	
119 Naphthalene	128	12.715	12.715	0.000	97	632309	20.0	19.2	
120 1,2,3-Trichlorobenzene	180	12.929	12.929	0.000	96	151989	20.0	18.8	
S 130 Total BTEX	1				0		100.0	99.3	
S 131 Trihalomethanes, Total	1				0		80.0	79.4	
S 129 Xylenes, Total	106				0		40.0	39.8	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00448	Amount Added: 16.00	Units: uL	
vmfasgw_00458	Amount Added: 16.00	Units: uL	
vmfasaw_00422	Amount Added: 16.00	Units: uL	
vm40ml_vials_00018	Amount Added: 0.00	Units:	Run Reagent
vm50ss_stk_00091	Amount Added: 2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00213	Amount Added: 0.00	Units:	Run Reagent

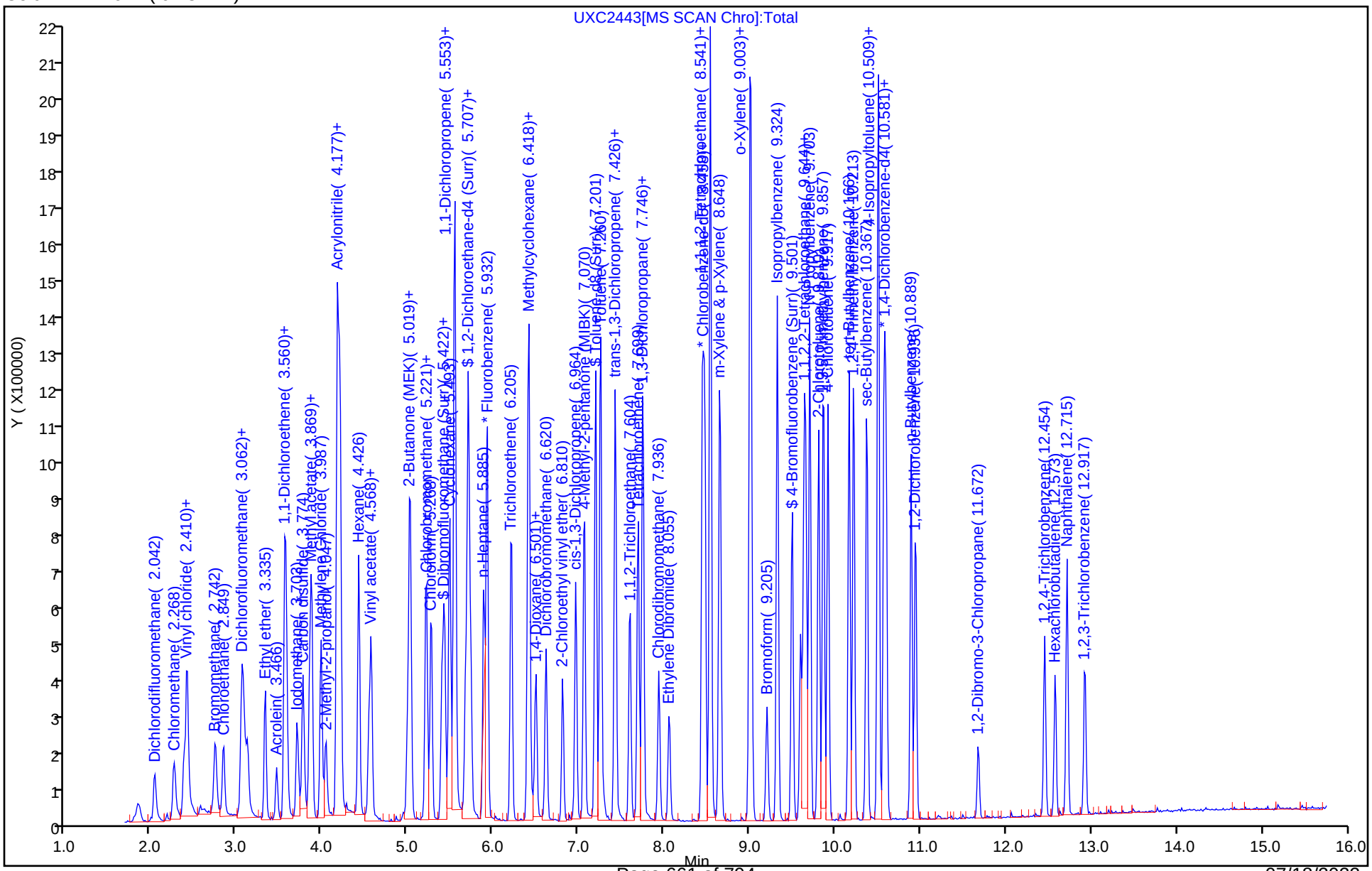
Report Date: 20-Jun-2022 10:45:09 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2443.D

Injection Date:	17-Jun-2022 19:01:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	ICV			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/29 Calibration Date: 06/17/2022 23:21

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2454.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	0.2320	0.2117		0.0182	0.0200	-8.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2623		0.0180	0.0200	-9.9	30.0
Toluene-d8 (Surr)	Ave	1.337	1.214		0.0182	0.0200	-9.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4428		0.0190	0.0200	-5.2	30.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2454.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 17-Jun-2022 23:21:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-029
Operator ID: 001904 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 14:39:24 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 20-Jun-2022 15:01:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	929044	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	664484	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.581	10.569	0.012	94	293181	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	93	196690	20.0	18.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	243698	20.0	18.0	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	807015	20.0	18.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.502	0.000	91	294235	20.0	19.0	
25 Acetonitrile	41	3.833	3.833	0.000	100	231782	200.0	178.7	
37 Isopropyl ether	87	4.569	4.568	0.000	92	198315	20.0	19.1	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	93	388999	20.0	19.8	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	97	676192	20.0	19.6	
43 Ethyl acetate	43	5.007	5.007	0.000	99	563801	40.0	37.6	
44 Propionitrile	54	5.055	5.055	0.000	99	412915	200.0	199.0	
45 Methacrylonitrile	41	5.173	5.173	0.000	92	1803914	200.0	194.9	
54 Isooctane	57	5.778	5.778	0.000	85	563076	20.0	20.1	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	90	666498	20.0	19.3	
59 n-Butanol	56	6.063	6.063	0.000	87	265211	500.0	490.2	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	342012	20.0	18.8	
64 Methyl methacrylate	41	6.418	6.418	0.000	90	490319	40.0	38.1	
68 2-Nitropropane	41	6.786	6.786	0.000	99	172381	40.0	38.1	
79 n-Butyl acetate	43	7.830	7.830	0.000	96	406284	20.0	19.0	
83 1-Chlorohexane	91	8.423	8.422	0.001	96	298761	20.0	18.8	
92 Cyclohexanone	55	9.430	9.430	0.000	92	88805	200.0	191.2	
105 Pentachloroethane	167	10.213	10.213	0.000	92	20043	40.0	32.9	
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	721131	20.0	20.4	
112 Benzyl chloride	126	10.699	10.699	0.000	99	75781	20.0	17.6	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	97	183179	20.0	19.8	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	92	567220	40.0	38.4	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	524463	40.0	38.2	

QC Flag Legend

Processing Flags

Reagents:

VMFASA9W_00362	Amount Added:	16.00	Units: uL	
vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00091	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00213	Amount Added:	0.00	Units:	Run Reagent

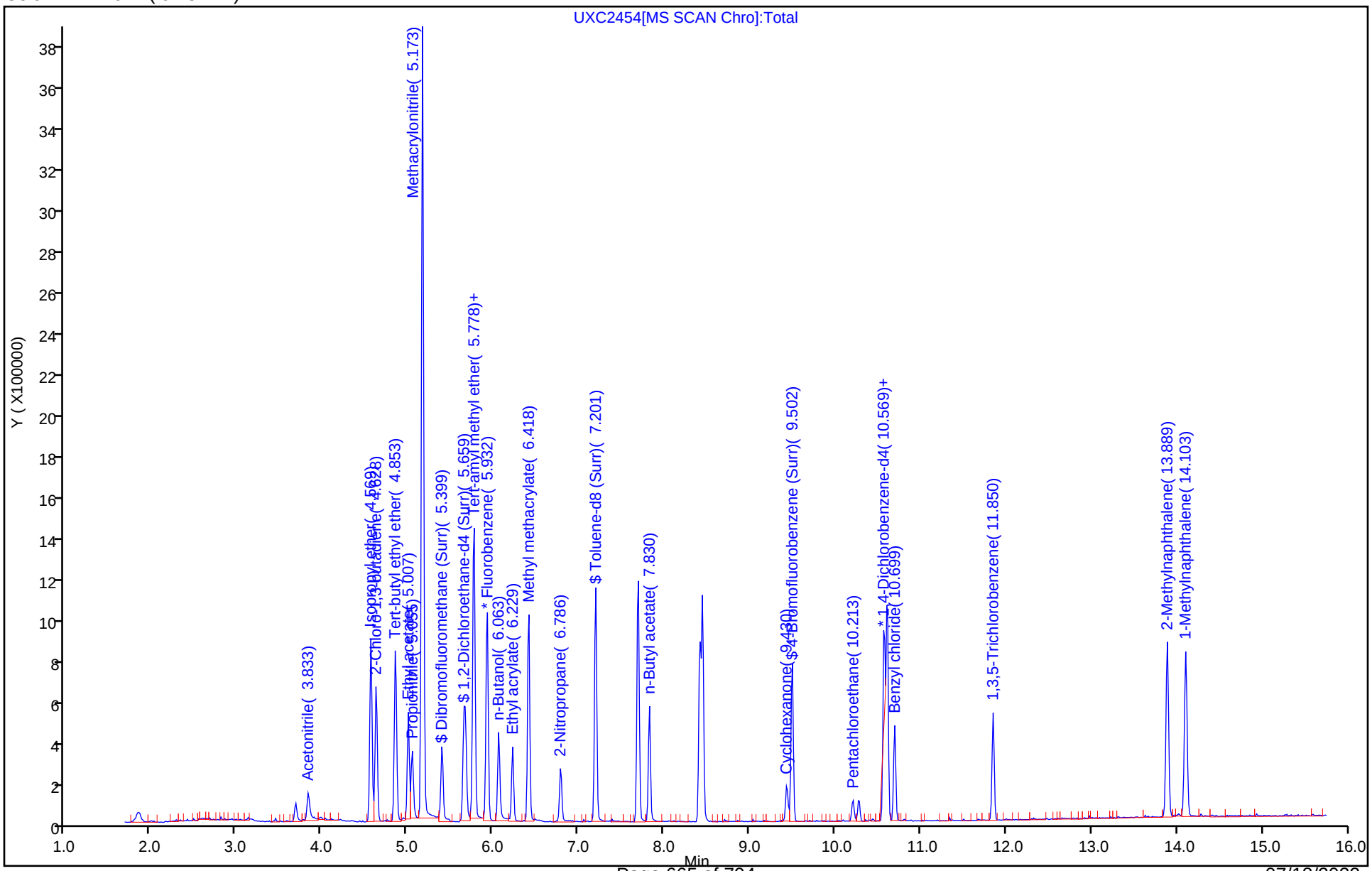
Report Date: 20-Jun-2022 15:01:47 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2454.D

Injection Date:	17-Jun-2022 23:21:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	ICV			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: ICV 240-531220/29 | Calibration Date: 06/17/2022 23:21

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 20:12

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 22:33

Lab File ID: UXC2454.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	0.0279	0.0249		0.179	0.200	-10.6	30.0
Diisopropyl ether	Ave	0.2239	0.2135		0.0191	0.0200	-4.7	30.0
2-Chloro-1,3-butadiene	Ave	0.4220	0.4187		0.0198	0.0200	-0.8	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7434	0.7278		0.0196	0.0200	-2.1	30.0
Ethyl acetate	Ave	0.3229	0.3034		0.0376	0.0400	-6.0	30.0
Propionitrile	Ave	0.0447	0.0444		0.199	0.200	-0.5	30.0
Methacrylonitrile	Ave	0.1993	0.1942		0.195	0.200	-2.6	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.7433	0.7174		0.0193	0.0200	-3.5	30.0
n-Butanol	Ave	0.0116	0.0114		0.490	0.500	-2.0	30.0
Ethyl acrylate	Ave	0.3922	0.3681		0.0188	0.0200	-6.1	30.0
Methyl methacrylate	Ave	0.2769	0.2639		0.0381	0.0400	-4.7	30.0
2-Nitropropane	Ave	0.0975	0.0928		0.0381	0.0400	-4.8	30.0
n-Butyl acetate	Ave	0.4603	0.4373		0.0190	0.0200	-5.0	30.0
1-Chlorohexane	Ave	0.4791	0.4496		0.0188	0.0200	-6.2	30.0
Cyclohexanone	Ave	0.0317	0.0303		0.191	0.200	-4.4	30.0
Pentachloroethane	Ave	0.0183	0.0151		0.0329	0.0400	-17.7	30.0
1,2,3-Trimethylbenzene	Ave	2.411	2.460		0.0204	0.0200	2.0	30.0
Benzyl chloride	Ave	0.2937	0.2585		0.0176	0.0200	-12.0	30.0
1,3,5-Trichlorobenzene	Ave	0.6311	0.6248		0.0198	0.0200	-1.0	30.0
2-Methylnaphthalene	Ave	1.009	0.9674		0.0384	0.0400	-4.1	30.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2454.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 17-Jun-2022 23:21:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-029
Operator ID: 001904 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 14:39:24 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 20-Jun-2022 15:01:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	929044	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	664484	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.581	10.569	0.012	94	293181	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	93	196690	20.0	18.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	243698	20.0	18.0	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	807015	20.0	18.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.502	9.502	0.000	91	294235	20.0	19.0	
25 Acetonitrile	41	3.833	3.833	0.000	100	231782	200.0	178.7	
37 Isopropyl ether	87	4.569	4.568	0.000	92	198315	20.0	19.1	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	93	388999	20.0	19.8	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	97	676192	20.0	19.6	
43 Ethyl acetate	43	5.007	5.007	0.000	99	563801	40.0	37.6	
44 Propionitrile	54	5.055	5.055	0.000	99	412915	200.0	199.0	
45 Methacrylonitrile	41	5.173	5.173	0.000	92	1803914	200.0	194.9	
54 Isooctane	57	5.778	5.778	0.000	85	563076	20.0	20.1	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	90	666498	20.0	19.3	
59 n-Butanol	56	6.063	6.063	0.000	87	265211	500.0	490.2	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	342012	20.0	18.8	
64 Methyl methacrylate	41	6.418	6.418	0.000	90	490319	40.0	38.1	
68 2-Nitropropane	41	6.786	6.786	0.000	99	172381	40.0	38.1	
79 n-Butyl acetate	43	7.830	7.830	0.000	96	406284	20.0	19.0	
83 1-Chlorohexane	91	8.423	8.422	0.001	96	298761	20.0	18.8	
92 Cyclohexanone	55	9.430	9.430	0.000	92	88805	200.0	191.2	
105 Pentachloroethane	167	10.213	10.213	0.000	92	20043	40.0	32.9	
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	721131	20.0	20.4	
112 Benzyl chloride	126	10.699	10.699	0.000	99	75781	20.0	17.6	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	97	183179	20.0	19.8	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	92	567220	40.0	38.4	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	524463	40.0	38.2	

QC Flag Legend

Processing Flags

Reagents:

VMFASA9W_00362	Amount Added:	16.00	Units: uL	
vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00091	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00213	Amount Added:	0.00	Units:	Run Reagent

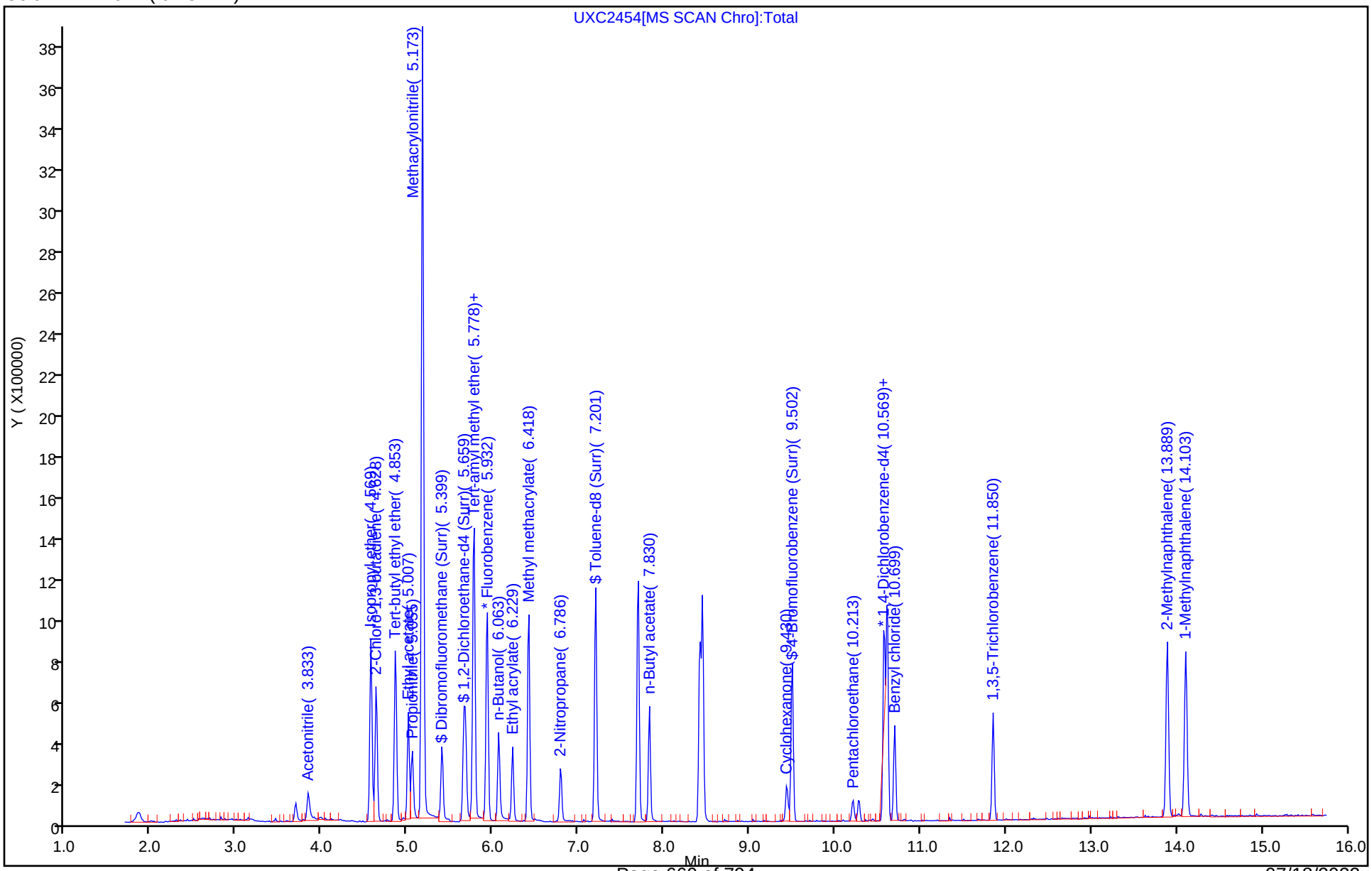
Report Date: 20-Jun-2022 15:01:47 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2454.D

Injection Date:	17-Jun-2022 23:21:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	ICV			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-534172/3 | Calibration Date: 07/11/2022 13:58

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 20:12

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 22:33

Lab File ID: UXC2945.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	0.0279	0.0249		0.179	0.200	-10.7	20.0
Diisopropyl ether	Ave	0.2239	0.1919		0.0171	0.0200	-14.3	20.0
2-Chloro-1,3-butadiene	Ave	0.4220	0.3630		0.0172	0.0200	-14.0	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7434	0.6062		0.0163	0.0200	-18.5	20.0
Ethyl acetate	Ave	0.3229	0.2822		0.0350	0.0400	-12.6	20.0
Propionitrile	Ave	0.0447	0.0458		0.205	0.200	2.5	20.0
Methacrylonitrile	Ave	0.1993	0.1810		0.182	0.200	-9.2	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7433	0.6188		0.0166	0.0200	-16.8	20.0
n-Butanol	Ave	0.0116	0.0114		0.489	0.500	-2.2	20.0
Ethyl acrylate	Ave	0.3922	0.3384		0.0173	0.0200	-13.7	20.0
Methyl methacrylate	Ave	0.2769	0.2304		0.0333	0.0400	-16.8	20.0
2-Nitropropane	Ave	0.0975	0.0872		0.0358	0.0400	-10.6	20.0
n-Butyl acetate	Ave	0.4603	0.3601		0.0156	0.0200	-21.8*	20.0
1-Chlorohexane	Ave	0.4791	0.4169		0.0174	0.0200	-13.0	20.0
Cyclohexanone	Ave	0.0317	0.0248		0.156	0.200	-21.8*	20.0
Pentachloroethane	Ave	0.0183	0.1842		0.402	0.0400	905.6*	20.0
1,2,3-Trimethylbenzene	Ave	2.411	2.264		0.0188	0.0200	-6.1	20.0
Benzyl chloride	Ave	0.2937	0.3590		0.0244	0.0200	22.2*	20.0
1,3,5-Trichlorobenzene	Ave	0.6311	0.7535		0.0239	0.0200	19.4	20.0
2-Methylnaphthalene	Ave	1.009	1.156		0.0458	0.0400	14.5	20.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2945.D
Lims ID: CCV A9 L4
Client ID:
Sample Type: CCV
Inject. Date: 11-Jul-2022 13:58:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-003
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jul-2022 14:36:46 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: MAW1 Date: 11-Jul-2022 14:36:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	100	881169	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	86	655196	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	301590	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	99	219622	200.0	178.6	
37 Isopropyl ether	87	4.568	4.568	0.000	91	169063	20.0	17.1	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	91	319825	20.0	17.2	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	96	534181	20.0	16.3	
43 Ethyl acetate	43	5.007	5.007	0.000	99	497296	40.0	35.0	
44 Propionitrile	54	5.055	5.055	0.000	99	403686	200.0	205.1	
45 Methacrylonitrile	41	5.173	5.173	0.000	90	1595053	200.0	181.7	
54 Isooctane	57	5.766	5.766	0.000	86	493961	20.0	18.6	
57 Tert-amyl methyl ether	73	5.766	5.766	0.000	88	545227	20.0	16.6	
59 n-Butanol	56	6.063	6.063	0.000	87	251036	500.0	489.2	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	298160	20.0	17.3	
64 Methyl methacrylate	41	6.406	6.406	0.000	89	405958	40.0	33.3	
68 2-Nitropropane	41	6.786	6.786	0.000	99	153636	40.0	35.8	
79 n-Butyl acetate	43	7.829	7.829	0.000	95	317285	20.0	15.6	
83 1-Chlorohexane	91	8.411	8.411	0.000	97	273124	20.0	17.4	
92 Cyclohexanone	55	9.430	9.430	0.000	93	74696	200.0	156.3	
105 Pentachloroethane	167	10.213	10.213	0.000	97	241376	40.0	402.2	E
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	682896	20.0	18.8	
112 Benzyl chloride	126	10.699	10.699	0.000	98	108272	20.0	24.4	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	97	227262	20.0	23.9	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	92	697016	40.0	45.8	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	663677	40.0	46.9	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmra9w_00442	Amount Added:	16.00	Units: uL

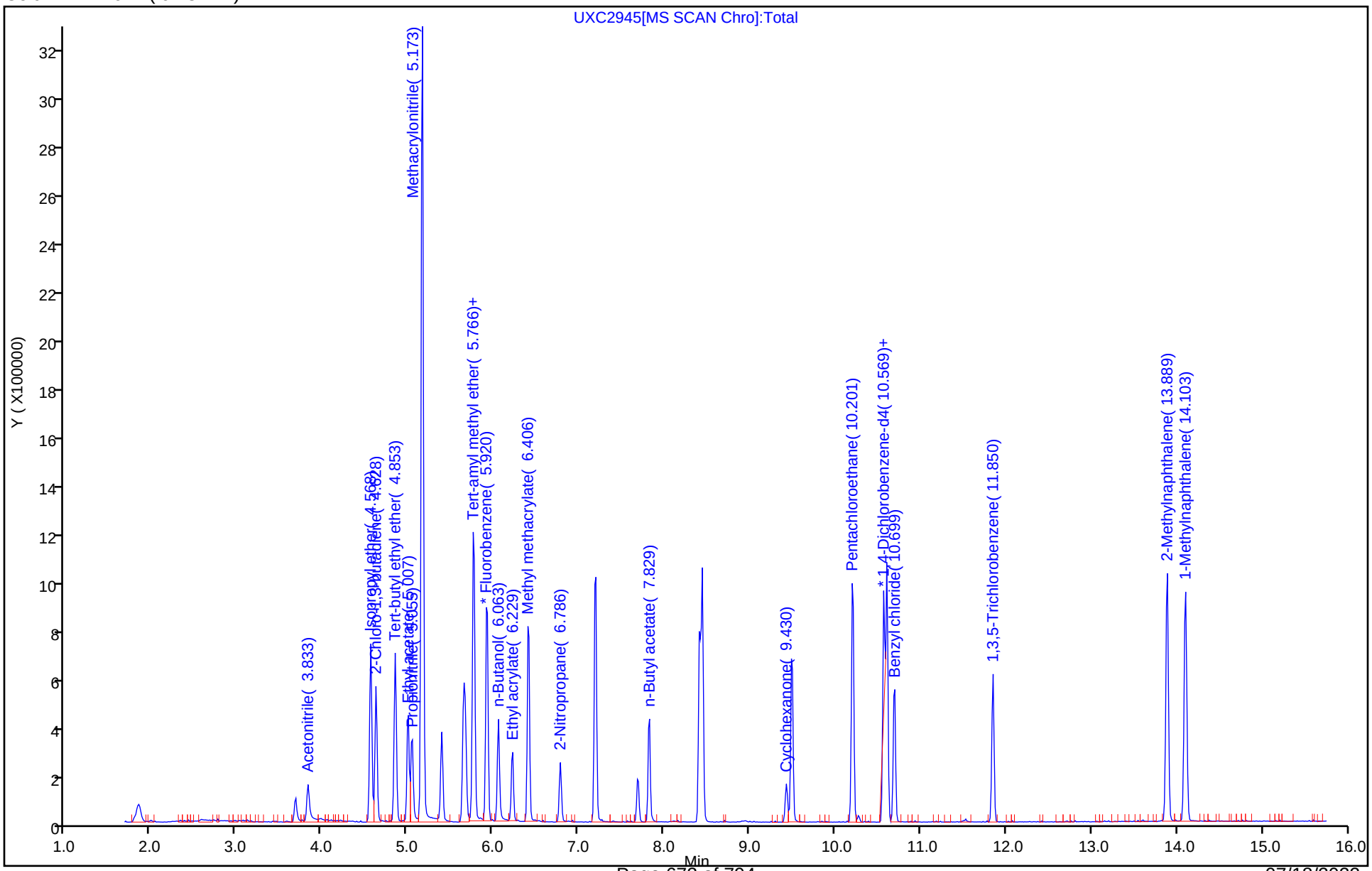
Report Date: 11-Jul-2022 14:36:47 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2945.D

Injection Date:	11-Jul-2022 13:58:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	CCV A9 L4			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534172/4 Calibration Date: 07/11/2022 14:21

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2946.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	0.2036	0.2362	0.1000	0.0232	0.0200	16.0	20.0
Chloromethane	Ave	0.2633	0.2463	0.1000	0.0187	0.0200	-6.4	20.0
Vinyl chloride	Ave	0.2696	0.2697	0.1000	0.0200	0.0200	0.0	20.0
Butadiene	Ave	0.2717	0.2798		0.0206	0.0200	3.0	20.0
Bromomethane	Ave	0.2097	0.1939	0.0500	0.0185	0.0200	-7.5	20.0
Chloroethane	Ave	0.1956	0.1851	0.0500	0.0189	0.0200	-5.4	20.0
Dichlorofluoromethane	Ave	0.4434	0.4134		0.0186	0.0200	-6.8	20.0
Trichlorofluoromethane	Ave	0.3739	0.3927	0.1000	0.0210	0.0200	5.0	20.0
Ethyl ether	Ave	0.1994	0.2082		0.0209	0.0200	4.4	20.0
Acrolein	Ave	0.0248	0.0112		0.0451	0.100	-54.9*	20.0
1,1-Dichloroethene	Ave	0.2005	0.2254	0.1000	0.0225	0.0200	12.4	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1374	0.1742	0.0500	0.0254	0.0200	26.8*	20.0
Acetone	Lin1		0.0887	0.0100	0.0473	0.0400	18.2	50.0
Iodomethane	Ave	0.3230	0.3764		0.0233	0.0200	16.5	20.0
Carbon disulfide	Ave	0.5853	0.6958	0.1000	0.0238	0.0200	18.9	20.0
Methyl acetate	Ave	0.2451	0.2266	0.1000	0.0370	0.0400	-7.6	50.0
3-Chloro-1-propene	Ave	0.1612	0.1732		0.0215	0.0200	7.4	20.0
Methylene Chloride	Lin1		0.2448	0.1000	0.0209	0.0200	4.4	50.0
tert-Butyl alcohol	Ave	0.0275	0.0293		0.213	0.200	6.4	20.0
Acrylonitrile	Ave	0.1016	0.1177		0.232	0.200	15.9	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6756	0.1000	0.0200	0.0200	-0.2	20.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2748	0.1000	0.0208	0.0200	3.9	20.0
Hexane	Ave	0.0609	0.0693		0.0228	0.0200	13.9	20.0
Vinyl acetate	Ave	0.3729	0.5235		0.0281	0.0200	40.4*	20.0
1,1-Dichloroethane	Ave	0.4324	0.4548	0.2000	0.0210	0.0200	5.2	20.0
2-Butanone	Ave	0.0421	0.0453	0.0100	0.0430	0.0400	7.6	50.0
2,2-Dichloropropane	Ave	0.0570	0.0635		0.0223	0.0200	11.4	20.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2843	0.1000	0.0212	0.0200	6.2	20.0
Bromochloromethane	Ave	0.1296	0.1486		0.0229	0.0200	14.7	20.0
Tetrahydrofuran	Ave	0.1026	0.1018		0.0397	0.0400	-0.7	20.0
Chloroform	Ave	0.4205	0.4475	0.2000	0.0213	0.0200	6.4	20.0
1,1,1-Trichloroethane	Ave	0.3616	0.3930	0.1000	0.0217	0.0200	8.7	20.0
Cyclohexane	Ave	0.3672	0.3943	0.1000	0.0215	0.0200	7.4	20.0
1,1-Dichloropropene	Ave	0.3568	0.3757		0.0211	0.0200	5.3	20.0
Carbon tetrachloride	Ave	0.3272	0.3682	0.1000	0.0225	0.0200	12.5	20.0
Isobutyl alcohol	Ave	0.0110	0.0131		0.592	0.500	18.3	20.0
Benzene	Ave	0.9923	1.070	0.5000	0.0216	0.0200	7.8	20.0
1,2-Dichloroethane	Ave	0.3343	0.3443	0.1000	0.0206	0.0200	3.0	20.0
n-Heptane	Ave	0.0553	0.0593		0.0214	0.0200	7.2	20.0
Trichloroethene	Ave	0.2793	0.3070	0.1500	0.0220	0.0200	9.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534172/4 Calibration Date: 07/11/2022 14:21

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2946.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	0.3575	0.4046	0.1000	0.0226	0.0200	13.2	20.0
1,2-Dichloropropane	Ave	0.2324	0.2441	0.1000	0.0210	0.0200	5.0	20.0
1,4-Dioxane	Ave	0.0024	0.0031		0.522	0.400	30.4	50.0
Dibromomethane	Ave	0.1473	0.1596		0.0217	0.0200	8.4	20.0
Bromodichloromethane	Ave	0.3083	0.3342	0.1500	0.0217	0.0200	8.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1741	0.1736		0.0399	0.0400	-0.3	20.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3951	0.1500	0.0209	0.0200	4.6	50.0
4-Methyl-2-pentanone	Ave	0.3120	0.3020	0.0500	0.0387	0.0400	-3.2	50.0
Toluene	Ave	1.486	1.613	0.4000	0.0217	0.0200	8.5	20.0
Ethyl methacrylate	Ave	0.4694	0.4637		0.0198	0.0200	-1.2	20.0
trans-1,3-Dichloropropene	Ave	0.4889	0.5042	0.1000	0.0206	0.0200	3.1	20.0
1,1,2-Trichloroethane	Ave	0.2863	0.3170	0.1000	0.0221	0.0200	10.7	20.0
Tetrachloroethene	Ave	0.2892	0.3602	0.1500	0.0249	0.0200	24.5*	20.0
1,3-Dichloropropane	Ave	0.5046	0.5488		0.0217	0.0200	8.7	20.0
2-Hexanone	Ave	0.3226	0.3135	0.0500	0.0389	0.0400	-2.8	50.0
Dibromochloromethane	Ave	0.3155	0.3700		0.0235	0.0200	17.3	20.0
1,2-Dibromoethane	Ave	0.3099	0.3425		0.0221	0.0200	10.5	20.0
Chlorobenzene	Ave	0.9126	1.015	0.3000	0.0223	0.0200	11.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2978	0.3513		0.0236	0.0200	18.0	20.0
Ethylbenzene	Ave	0.5027	0.5521		0.0220	0.0200	9.8	20.0
m-Xylene & p-Xylene	Ave	1.183	1.293		0.0219	0.0200	9.3	20.0
o-Xylene	Ave	0.5690	0.6327		0.0222	0.0200	11.2	20.0
Styrene	Ave	0.9710	1.064	0.3000	0.0219	0.0200	9.6	20.0
Bromoform	Ave	0.2255	0.2784	0.1000	0.0247	0.0200	23.5*	20.0
Isopropylbenzene	Ave	1.401	1.563	0.1000	0.0223	0.0200	11.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7873	0.8684	0.3000	0.0221	0.0200	10.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2855	0.2379		0.0167	0.0200	-16.7	20.0
Bromobenzene	Ave	0.7492	0.8646		0.0231	0.0200	15.4	20.0
1,2,3-Trichloropropane	Ave	0.2777	0.3123		0.0225	0.0200	12.5	20.0
n-Propylbenzene	Ave	0.8157	0.8940		0.0219	0.0200	9.6	20.0
2-Chlorotoluene	Ave	0.6877	0.7524		0.0219	0.0200	9.4	20.0
1,3,5-Trimethylbenzene	Ave	2.223	2.420		0.0218	0.0200	8.9	20.0
4-Chlorotoluene	Ave	2.113	2.214		0.0210	0.0200	4.8	20.0
tert-Butylbenzene	Ave	1.938	2.097		0.0216	0.0200	8.2	20.0
1,2,4-Trimethylbenzene	Ave	2.207	2.381		0.0216	0.0200	7.9	20.0
sec-Butylbenzene	Ave	2.539	2.732		0.0215	0.0200	7.6	20.0
1,3-Dichlorobenzene	Ave	1.279	1.457	0.6000	0.0228	0.0200	13.9	20.0
p-Isopropyltoluene	Ave	2.175	2.301		0.0212	0.0200	5.8	20.0
1,4-Dichlorobenzene	Ave	1.309	1.476	0.5000	0.0225	0.0200	12.7	20.0
n-Butylbenzene	Ave	1.730	1.805		0.0209	0.0200	4.4	20.0
1,2-Dichlorobenzene	Ave	1.135	1.277	0.4000	0.0225	0.0200	12.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534172/4 Calibration Date: 07/11/2022 14:21

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2946.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	0.1962	0.2106	0.0500	0.0215	0.0200	7.3	50.0
1,2,4-Trichlorobenzene	Ave	0.5120	0.5549	0.2000	0.0217	0.0200	8.4	50.0
Hexachlorobutadiene	Ave	0.2294	0.2660		0.0232	0.0200	16.0	50.0
Naphthalene	Ave	1.819	1.790		0.0197	0.0200	-1.6	50.0
1,2,3-Trichlorobenzene	Ave	0.4464	0.4986		0.0223	0.0200	11.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2320	0.2422		0.0209	0.0200	4.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2833		0.0195	0.0200	-2.7	20.0
Toluene-d8 (Surr)	Ave	1.337	1.342		0.0201	0.0200	0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4533		0.0194	0.0200	-2.9	20.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2946.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Jul-2022 14:21:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-004
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jul-2022 14:49:59 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: MAW1 Date: 11-Jul-2022 14:49:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	862850	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	615366	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	93	305859	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	94	208963	20.0	20.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.683	5.683	0.000	99	244415	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	825908	20.0	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	96	278933	20.0	19.4	
9 Dichlorodifluoromethane	85	2.054	2.054	0.000	99	203796	20.0	23.2	
10 Chloromethane	50	2.280	2.280	0.000	99	212537	20.0	18.7	
11 Vinyl chloride	62	2.398	2.398	0.000	98	232733	20.0	20.0	
12 Butadiene	54	2.434	2.434	0.000	98	241461	20.0	20.6	
13 Bromomethane	94	2.754	2.754	0.000	92	167276	20.0	18.5	
14 Chloroethane	64	2.861	2.861	0.000	99	159726	20.0	18.9	
15 Dichlorofluoromethane	67	3.062	3.062	0.000	98	356696	20.0	18.6	
16 Trichlorofluoromethane	101	3.086	3.086	0.000	97	338800	20.0	21.0	
17 Ethyl ether	59	3.335	3.335	0.000	89	179677	20.0	20.9	
18 Acrolein	56	3.477	3.477	0.000	98	48162	100.0	45.1	
19 1,1-Dichloroethene	96	3.572	3.572	0.000	98	194477	20.0	22.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.584	3.584	0.000	91	150276	20.0	25.4	
21 Acetone	43	3.596	3.596	0.000	100	153021	40.0	47.3	
22 Iodomethane	142	3.715	3.715	0.000	97	324766	20.0	23.3	
24 Carbon disulfide	76	3.786	3.786	0.000	99	600380	20.0	23.8	
27 Methyl acetate	43	3.857	3.857	0.000	97	390962	40.0	37.0	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	90	149417	20.0	21.5	
28 Methylene Chloride	84	3.987	3.987	0.000	91	211205	20.0	20.9	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	98	252668	200.0	212.9	
30 Acrylonitrile	53	4.177	4.177	0.000	100	1015963	200.0	231.9	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	582976	20.0	20.0	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	97	237149	20.0	20.8	
34 Hexane	86	4.438	4.438	0.000	91	59784	20.0	22.8	
36 Vinyl acetate	43	4.545	4.545	0.000	97	451670	20.0	28.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.580	4.580	0.000	96	392419	20.0	21.0	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	78247	40.0	43.0	
41 cis-1,2-Dichloroethene	96	5.031	5.031	0.000	80	245315	20.0	21.2	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	89	54824	20.0	22.3	
46 Chlorobromomethane	128	5.221	5.221	0.000	89	128193	20.0	22.9	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	175727	40.0	39.7	
48 Chloroform	83	5.280	5.280	0.000	93	386127	20.0	21.3	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	339141	20.0	21.7	
50 Cyclohexane	56	5.493	5.493	0.000	87	340240	20.0	21.5	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	93	324195	20.0	21.1	
52 Carbon tetrachloride	117	5.553	5.553	0.000	92	317667	20.0	22.5	
53 Isobutyl alcohol	41	5.553	5.553	0.000	92	281692	500.0	591.6	
55 Benzene	78	5.707	5.707	0.000	96	922833	20.0	21.6	
56 1,2-Dichloroethane	62	5.742	5.742	0.000	97	297073	20.0	20.6	
58 n-Heptane	100	5.897	5.897	0.000	88	51175	20.0	21.4	
60 Trichloroethene	130	6.217	6.217	0.000	96	264906	20.0	22.0	
62 Methylcyclohexane	83	6.406	6.406	0.000	91	349131	20.0	22.6	
63 1,2-Dichloropropane	63	6.418	6.418	0.000	95	210630	20.0	21.0	
66 1,4-Dioxane	88	6.466	6.466	0.000	93	53019	400.0	521.7	
65 Dibromomethane	93	6.501	6.501	0.000	91	137702	20.0	21.7	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	288404	20.0	21.7	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	92	299607	40.0	39.9	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	96	340877	20.0	20.9	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.059	0.000	96	521223	40.0	38.7	
72 Toluene	91	7.260	7.260	0.000	98	992292	20.0	21.7	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	95	310293	20.0	20.6	
74 Ethyl methacrylate	69	7.426	7.426	0.000	87	285336	20.0	19.8	
75 1,1,2-Trichloroethane	97	7.592	7.592	0.000	91	195077	20.0	22.1	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	221639	20.0	24.9	
77 1,3-Dichloropropane	76	7.747	7.747	0.000	95	337708	20.0	21.7	
78 2-Hexanone	43	7.747	7.747	0.000	93	385849	40.0	38.9	
80 Chlorodibromomethane	129	7.936	7.936	0.000	89	227658	20.0	23.5	
82 Ethylene Dibromide	107	8.055	8.055	0.000	99	210738	20.0	22.1	
84 Chlorobenzene	112	8.470	8.470	0.000	96	624817	20.0	22.3	
86 Ethylbenzene	106	8.541	8.541	0.000	98	339724	20.0	22.0	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	216164	20.0	23.6	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	795815	20.0	21.9	
88 o-Xylene	106	9.004	9.004	0.000	95	389337	20.0	22.2	
89 Styrene	104	9.015	9.015	0.000	93	654940	20.0	21.9	
90 Bromoform	173	9.205	9.205	0.000	98	171302	20.0	24.7	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	961686	20.0	22.3	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.596	0.000	95	265614	20.0	22.1	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	85	72760	20.0	16.7	
95 Bromobenzene	156	9.644	9.644	0.000	94	264443	20.0	23.1	
96 1,2,3-Trichloropropane	110	9.656	9.656	0.000	81	95512	20.0	22.5	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	273445	20.0	21.9	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	230120	20.0	21.9	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	94	740153	20.0	21.8	
102 4-Chlorotoluene	91	9.917	9.917	0.000	96	677298	20.0	21.0	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	641424	20.0	21.6	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	728180	20.0	21.6	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	835684	20.0	21.5	

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	10.498	10.498	0.000	75	445570	20.0	22.8	
109 4-Isopropyltoluene	119	10.510	10.510	0.000	97	703645	20.0	21.2	
110 1,4-Dichlorobenzene	146	10.593	10.593	0.000	96	451476	20.0	22.5	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	552173	20.0	20.9	
114 1,2-Dichlorobenzene	146	10.936	10.936	0.000	99	390479	20.0	22.5	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.672	0.000	88	64414	20.0	21.5	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	169734	20.0	21.7	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	96	81353	20.0	23.2	
119 Naphthalene	128	12.715	12.715	0.000	96	547507	20.0	19.7	
120 1,2,3-Trichlorobenzene	180	12.917	12.917	0.000	96	152494	20.0	22.3	
S 130 Total BTEX	1				0		100.0	109.3	
S 131 Trihalomethanes, Total	1				0		80.0	91.1	
S 129 Xylenes, Total	106				0		40.0	44.1	

QC Flag Legend

Processing Flags

Reagents:

vmarolistdw_00445	Amount Added:	16.00	Units: uL	
vmrgas_00433	Amount Added:	16.00	Units: uL	
vmrprimw_00489	Amount Added:	16.00	Units: uL	
vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

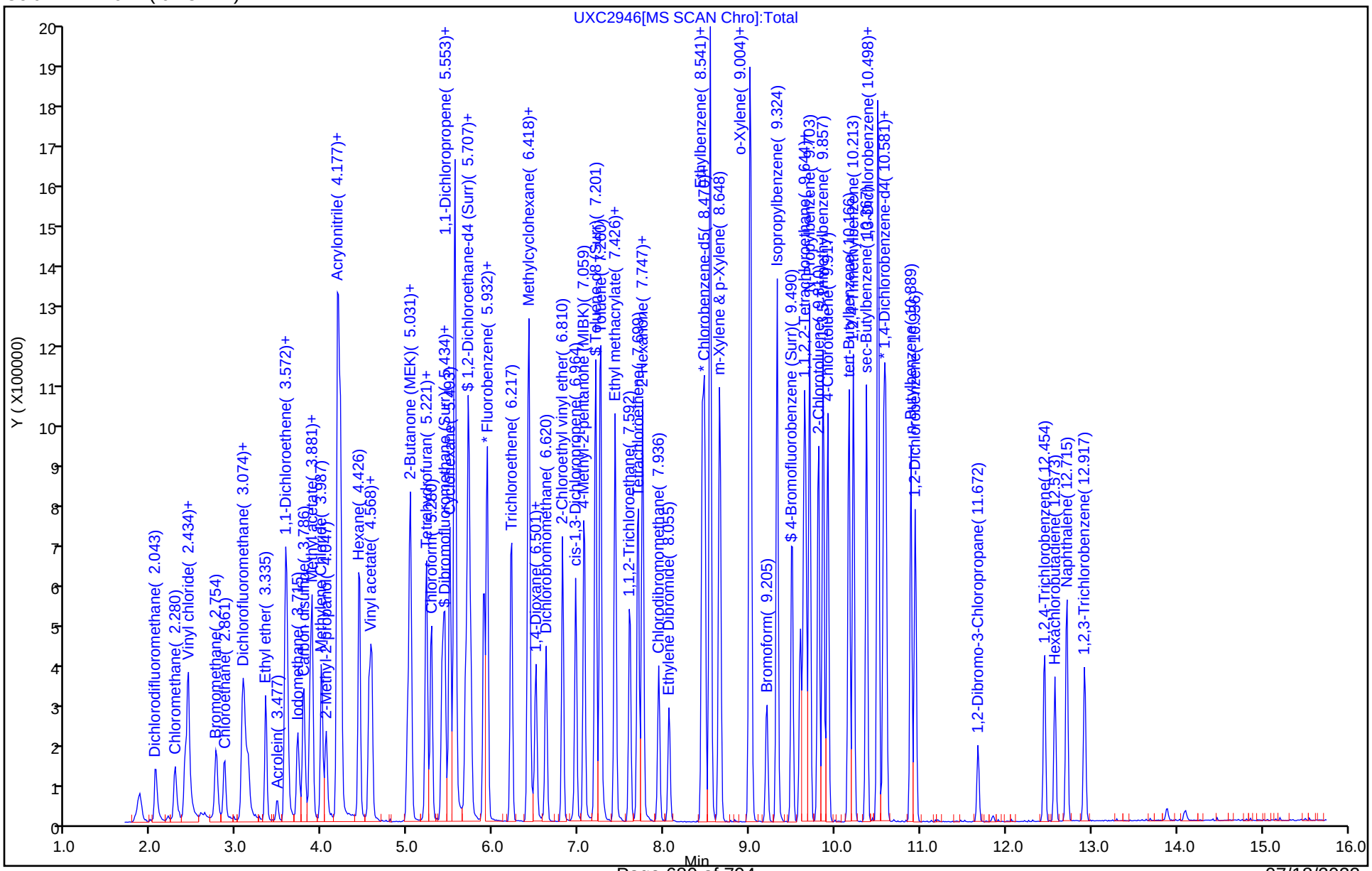
Report Date: 11-Jul-2022 14:50:00 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2946.D

Injection Date:	11-Jul-2022 14:21:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	CCVIS L4 8260			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-534342/3 | Calibration Date: 07/12/2022 11:45

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 20:12

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 22:33

Lab File ID: UXC2960.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	0.0279	0.0301		0.215	0.200	7.7	20.0
Diisopropyl ether	Ave	0.2239	0.1878		0.0168	0.0200	-16.1	20.0
2-Chloro-1,3-butadiene	Ave	0.4220	0.3680		0.0174	0.0200	-12.8	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7434	0.6008		0.0162	0.0200	-19.2	20.0
Ethyl acetate	Ave	0.3229	0.2954		0.0366	0.0400	-8.5	20.0
Propionitrile	Ave	0.0447	0.0488		0.219	0.200	9.3	20.0
Methacrylonitrile	Ave	0.1993	0.1860		0.187	0.200	-6.7	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7433	0.6082		0.0164	0.0200	-18.2	20.0
n-Butanol	Ave	0.0116	0.0120		0.516	0.500	3.3	20.0
Ethyl acrylate	Ave	0.3922	0.3614		0.0184	0.0200	-7.9	20.0
Methyl methacrylate	Ave	0.2769	0.2363		0.0341	0.0400	-14.7	20.0
2-Nitropropane	Ave	0.0975	0.0894		0.0367	0.0400	-8.3	20.0
n-Butyl acetate	Ave	0.4603	0.3881		0.0169	0.0200	-15.7	20.0
1-Chlorohexane	Ave	0.4791	0.4237		0.0177	0.0200	-11.6	20.0
Cyclohexanone	Ave	0.0317	0.0278		0.175	0.200	-12.4	20.0
Pentachloroethane	Ave	0.0183	0.1802		0.394	0.0400	883.9*	20.0
1,2,3-Trimethylbenzene	Ave	2.411	2.304		0.0191	0.0200	-4.5	20.0
Benzyl chloride	Ave	0.2937	0.3545		0.0241	0.0200	20.7*	20.0
1,3,5-Trichlorobenzene	Ave	0.6311	0.7654		0.0243	0.0200	21.3*	20.0
2-Methylnaphthalene	Ave	1.009	1.063		0.0421	0.0400	5.3	20.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2960.D
Lims ID: CCV A9 L4
Client ID:
Sample Type: CCV
Inject. Date: 12-Jul-2022 11:45:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-003
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 12:31:12 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 12:19:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	865067	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	662065	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	294312	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	99	260059	200.0	215.4	
37 Isopropyl ether	87	4.568	4.568	0.000	91	162420	20.0	16.8	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	92	318339	20.0	17.4	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	96	519763	20.0	16.2	
43 Ethyl acetate	43	5.007	5.007	0.000	99	511132	40.0	36.6	
44 Propionitrile	54	5.055	5.055	0.000	99	422489	200.0	218.6	
45 Methacrylonitrile	41	5.173	5.173	0.000	91	1608789	200.0	186.7	
54 Isooctane	57	5.778	5.778	0.000	87	487040	20.0	18.7	
57 Tert-amyl methyl ether	73	5.778	5.778	0.000	88	526155	20.0	16.4	
59 n-Butanol	56	6.063	6.063	0.000	87	260119	500.0	516.3	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	312593	20.0	18.4	
64 Methyl methacrylate	41	6.406	6.406	0.000	91	408765	40.0	34.1	
68 2-Nitropropane	41	6.786	6.786	0.000	99	154653	40.0	36.7	
79 n-Butyl acetate	43	7.829	7.829	0.000	95	335702	20.0	16.9	
83 1-Chlorohexane	91	8.411	8.411	0.000	98	280520	20.0	17.7	
92 Cyclohexanone	55	9.430	9.430	0.000	92	81683	200.0	175.2	
105 Pentachloroethane	167	10.213	10.213	0.000	98	238656	40.0	393.6	E
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	677951	20.0	19.1	
112 Benzyl chloride	126	10.699	10.699	0.000	98	104328	20.0	24.1	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	98	225279	20.0	24.3	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	93	625543	40.0	42.1	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	94	618519	40.0	44.8	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmra9w_00442	Amount Added:	16.00	Units: uL

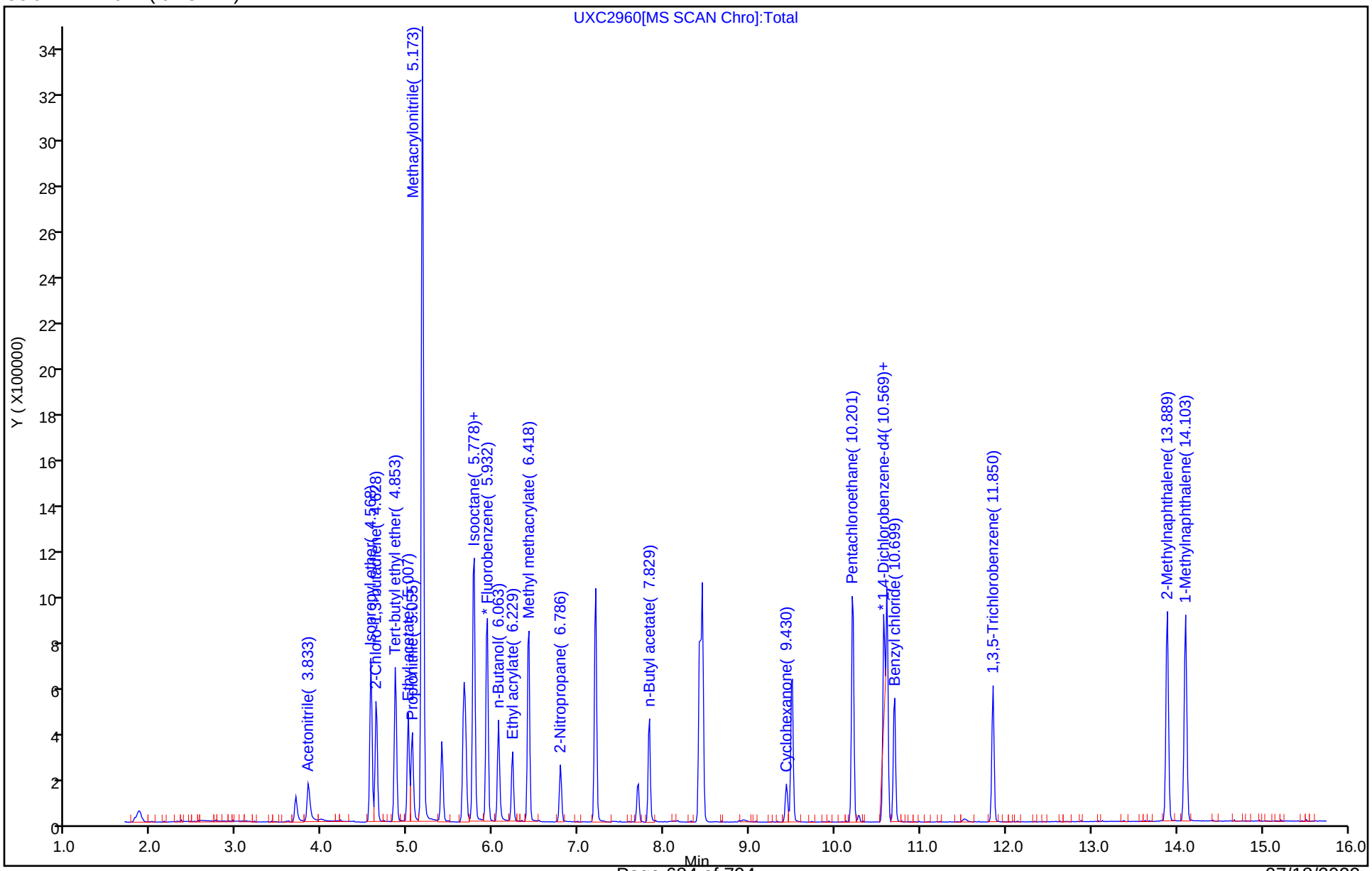
Report Date: 12-Jul-2022 12:31:14 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2960.D

Injection Date:	12-Jul-2022 11:45:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	CCV A9 L4			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534342/4 Calibration Date: 07/12/2022 12:08

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2961.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	0.2036	0.2271	0.1000	0.0223	0.0200	11.6	20.0
Chloromethane	Ave	0.2633	0.2421	0.1000	0.0184	0.0200	-8.1	20.0
Vinyl chloride	Ave	0.2696	0.2625	0.1000	0.0195	0.0200	-2.6	20.0
Butadiene	Ave	0.2717	0.2665		0.0196	0.0200	-1.9	20.0
Bromomethane	Ave	0.2097	0.1859	0.0500	0.0177	0.0200	-11.3	20.0
Chloroethane	Ave	0.1956	0.1819	0.0500	0.0186	0.0200	-7.0	20.0
Dichlorofluoromethane	Ave	0.4434	0.4115		0.0186	0.0200	-7.2	20.0
Trichlorofluoromethane	Ave	0.3739	0.3876	0.1000	0.0207	0.0200	3.7	20.0
Ethyl ether	Ave	0.1994	0.2056		0.0206	0.0200	3.1	20.0
Acrolein	Ave	0.0248	0.0129		0.0522	0.100	-47.8*	20.0
1,1-Dichloroethene	Ave	0.2005	0.2232	0.1000	0.0223	0.0200	11.3	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1374	0.1668	0.0500	0.0243	0.0200	21.5*	20.0
Acetone	Lin1		0.0844	0.0100	0.0449	0.0400	12.2	50.0
Iodomethane	Ave	0.3230	0.3699		0.0229	0.0200	14.5	20.0
Carbon disulfide	Ave	0.5853	0.6933	0.1000	0.0237	0.0200	18.4	20.0
Methyl acetate	Ave	0.2451	0.2216	0.1000	0.0362	0.0400	-9.6	50.0
3-Chloro-1-propene	Ave	0.1612	0.1602		0.0199	0.0200	-0.6	20.0
Methylene Chloride	Lin1		0.2428	0.1000	0.0207	0.0200	3.6	50.0
tert-Butyl alcohol	Ave	0.0275	0.0271		0.197	0.200	-1.3	20.0
Acrylonitrile	Ave	0.1016	0.1113		0.219	0.200	9.6	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6533	0.1000	0.0193	0.0200	-3.5	20.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2688	0.1000	0.0203	0.0200	1.6	20.0
Hexane	Ave	0.0609	0.0680		0.0224	0.0200	11.8	20.0
Vinyl acetate	Ave	0.3729	0.5124		0.0275	0.0200	37.4*	20.0
1,1-Dichloroethane	Ave	0.4324	0.4377	0.2000	0.0202	0.0200	1.2	20.0
2-Butanone	Ave	0.0421	0.0437	0.0100	0.0414	0.0400	3.6	50.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2770	0.1000	0.0207	0.0200	3.5	20.0
2,2-Dichloropropane	Ave	0.0570	0.0635		0.0222	0.0200	11.2	20.0
Bromochloromethane	Ave	0.1296	0.1436		0.0222	0.0200	10.9	20.0
Tetrahydrofuran	Ave	0.1026	0.0993		0.0387	0.0400	-3.2	20.0
Chloroform	Ave	0.4205	0.4440	0.2000	0.0211	0.0200	5.6	20.0
1,1,1-Trichloroethane	Ave	0.3616	0.3810	0.1000	0.0211	0.0200	5.3	20.0
Cyclohexane	Ave	0.3672	0.3834	0.1000	0.0209	0.0200	4.4	20.0
1,1-Dichloropropene	Ave	0.3568	0.3714		0.0208	0.0200	4.1	20.0
Carbon tetrachloride	Ave	0.3272	0.3607	0.1000	0.0220	0.0200	10.2	20.0
Isobutyl alcohol	Ave	0.0110	0.0130		0.587	0.500	17.4	20.0
Benzene	Ave	0.9923	1.045	0.5000	0.0211	0.0200	5.4	20.0
1,2-Dichloroethane	Ave	0.3343	0.3377	0.1000	0.0202	0.0200	1.0	20.0
n-Heptane	Ave	0.0553	0.0572		0.0207	0.0200	3.4	20.0
Trichloroethene	Ave	0.2793	0.2975	0.1500	0.0213	0.0200	6.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534342/4 Calibration Date: 07/12/2022 12:08

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2961.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	0.3575	0.3924	0.1000	0.0220	0.0200	9.8	20.0
1,2-Dichloropropane	Ave	0.2324	0.2428	0.1000	0.0209	0.0200	4.5	20.0
1,4-Dioxane	Ave	0.0024	0.0028		0.473	0.400	18.2	50.0
Dibromomethane	Ave	0.1473	0.1554		0.0211	0.0200	5.5	20.0
Bromodichloromethane	Ave	0.3083	0.3271	0.1500	0.0212	0.0200	6.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1741	0.1656		0.0380	0.0400	-4.9	20.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3897	0.1500	0.0206	0.0200	3.2	50.0
4-Methyl-2-pentanone	Ave	0.3120	0.3003	0.0500	0.0385	0.0400	-3.7	50.0
Toluene	Ave	1.486	1.562	0.4000	0.0210	0.0200	5.1	20.0
Ethyl methacrylate	Ave	0.4694	0.4458		0.0190	0.0200	-5.0	20.0
trans-1,3-Dichloropropene	Ave	0.4889	0.4953	0.1000	0.0203	0.0200	1.3	20.0
1,1,2-Trichloroethane	Ave	0.2863	0.3108	0.1000	0.0217	0.0200	8.6	20.0
Tetrachloroethene	Ave	0.2892	0.3450	0.1500	0.0239	0.0200	19.3	20.0
1,3-Dichloropropane	Ave	0.5046	0.5305		0.0210	0.0200	5.1	20.0
2-Hexanone	Ave	0.3226	0.3038	0.0500	0.0377	0.0400	-5.8	50.0
Dibromochloromethane	Ave	0.3155	0.3582		0.0227	0.0200	13.5	20.0
1,2-Dibromoethane	Ave	0.3099	0.3289		0.0212	0.0200	6.1	20.0
Chlorobenzene	Ave	0.9126	0.9735	0.3000	0.0213	0.0200	6.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2978	0.3421		0.0230	0.0200	14.9	20.0
Ethylbenzene	Ave	0.5027	0.5333		0.0212	0.0200	6.1	20.0
m-Xylene & p-Xylene	Ave	1.183	1.253		0.0212	0.0200	5.9	20.0
o-Xylene	Ave	0.5690	0.5915		0.0208	0.0200	3.9	20.0
Styrene	Ave	0.9710	1.024	0.3000	0.0211	0.0200	5.5	20.0
Bromoform	Ave	0.2255	0.2592	0.1000	0.0230	0.0200	15.0	20.0
Isopropylbenzene	Ave	1.401	1.518	0.1000	0.0217	0.0200	8.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7873	0.8282	0.3000	0.0210	0.0200	5.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2855	0.2434		0.0171	0.0200	-14.7	20.0
Bromobenzene	Ave	0.7492	0.8081		0.0216	0.0200	7.9	20.0
1,2,3-Trichloropropane	Ave	0.2777	0.2938		0.0212	0.0200	5.8	20.0
n-Propylbenzene	Ave	0.8157	0.8353		0.0205	0.0200	2.4	20.0
2-Chlorotoluene	Ave	0.6877	0.7182		0.0209	0.0200	4.4	20.0
1,3,5-Trimethylbenzene	Ave	2.223	2.254		0.0203	0.0200	1.4	20.0
4-Chlorotoluene	Ave	2.113	2.121		0.0201	0.0200	0.3	20.0
tert-Butylbenzene	Ave	1.938	1.986		0.0205	0.0200	2.5	20.0
1,2,4-Trimethylbenzene	Ave	2.207	2.237		0.0203	0.0200	1.3	20.0
sec-Butylbenzene	Ave	2.539	2.573		0.0203	0.0200	1.4	20.0
p-Isopropyltoluene	Ave	2.175	2.212		0.0203	0.0200	1.7	20.0
1,3-Dichlorobenzene	Ave	1.279	1.377	0.6000	0.0215	0.0200	7.6	20.0
1,4-Dichlorobenzene	Ave	1.309	1.382	0.5000	0.0211	0.0200	5.6	20.0
n-Butylbenzene	Ave	1.730	1.703		0.0197	0.0200	-1.6	20.0
1,2-Dichlorobenzene	Ave	1.135	1.217	0.4000	0.0214	0.0200	7.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534342/4 Calibration Date: 07/12/2022 12:08

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2961.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	0.1962	0.1931	0.0500	0.0197	0.0200	-1.6	50.0
1,2,4-Trichlorobenzene	Ave	0.5120	0.5067	0.2000	0.0198	0.0200	-1.0	50.0
Hexachlorobutadiene	Ave	0.2294	0.2450		0.0214	0.0200	6.8	50.0
Naphthalene	Ave	1.819	1.673		0.0184	0.0200	-8.0	50.0
1,2,3-Trichlorobenzene	Ave	0.4464	0.4715		0.0211	0.0200	5.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2320	0.2407		0.0207	0.0200	3.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2880		0.0198	0.0200	-1.1	20.0
Toluene-d8 (Surr)	Ave	1.337	1.337		0.0200	0.0200	0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4507		0.0193	0.0200	-3.5	20.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2961.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Jul-2022 12:08:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-004
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 12:40:37 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 12:40:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.920	5.920	0.000	99	858814	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	622982	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	93	317017	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.398	0.000	94	206680	20.0	20.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	247347	20.0	19.8	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	833220	20.0	20.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	96	280793	20.0	19.3	
9 Dichlorodifluoromethane	85	2.031	2.031	0.000	99	195057	20.0	22.3	
10 Chloromethane	50	2.268	2.268	0.000	98	207886	20.0	18.4	
11 Vinyl chloride	62	2.386	2.386	0.000	98	225424	20.0	19.5	
12 Butadiene	54	2.422	2.422	0.000	98	228879	20.0	19.6	
13 Bromomethane	94	2.742	2.742	0.000	91	159663	20.0	17.7	
14 Chloroethane	64	2.837	2.837	0.000	100	156241	20.0	18.6	
15 Dichlorofluoromethane	67	3.050	3.050	0.000	97	353413	20.0	18.6	
16 Trichlorofluoromethane	101	3.074	3.074	0.000	98	332899	20.0	20.7	
17 Ethyl ether	59	3.335	3.335	0.000	90	176614	20.0	20.6	
18 Acrolein	56	3.465	3.465	0.000	99	55507	100.0	52.2	
19 1,1-Dichloroethene	96	3.560	3.560	0.000	98	191681	20.0	22.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.572	3.572	0.000	92	143289	20.0	24.3	
21 Acetone	43	3.584	3.584	0.000	100	144975	40.0	44.9	
22 Iodomethane	142	3.703	3.703	0.000	98	317645	20.0	22.9	
24 Carbon disulfide	76	3.774	3.774	0.000	99	595384	20.0	23.7	
27 Methyl acetate	43	3.845	3.845	0.000	97	380596	40.0	36.2	
26 3-Chloro-1-propene	76	3.869	3.869	0.000	90	137578	20.0	19.9	
28 Methylene Chloride	84	3.987	3.987	0.000	89	208520	20.0	20.7	
29 2-Methyl-2-propanol	59	4.035	4.035	0.000	97	233150	200.0	197.4	
30 Acrylonitrile	53	4.177	4.177	0.000	99	955905	200.0	219.2	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	561044	20.0	19.3	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	98	230813	20.0	20.3	
34 Hexane	86	4.426	4.426	0.000	91	58411	20.0	22.4	
36 Vinyl acetate	43	4.545	4.545	0.000	97	440047	20.0	27.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.568	4.568	0.000	96	375902	20.0	20.2	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	74991	40.0	41.4	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	80	237925	20.0	20.7	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	88	54494	20.0	22.2	
46 Chlorobromomethane	128	5.209	5.209	0.000	90	123366	20.0	22.2	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	170521	40.0	38.7	
48 Chloroform	83	5.268	5.268	0.000	94	381341	20.0	21.1	
49 1,1,1-Trichloroethane	97	5.422	5.422	0.000	98	327169	20.0	21.1	
50 Cyclohexane	56	5.493	5.493	0.000	88	329269	20.0	20.9	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	96	318953	20.0	20.8	
52 Carbon tetrachloride	117	5.553	5.553	0.000	92	309784	20.0	22.0	
53 Isobutyl alcohol	41	5.553	5.553	0.000	93	278088	500.0	586.8	
55 Benzene	78	5.707	5.707	0.000	96	897840	20.0	21.1	
56 1,2-Dichloroethane	62	5.730	5.730	0.000	97	290026	20.0	20.2	
58 n-Heptane	100	5.885	5.885	0.000	90	49167	20.0	20.7	
60 Trichloroethene	130	6.205	6.205	0.000	96	255473	20.0	21.3	
62 Methylcyclohexane	83	6.406	6.406	0.000	90	336980	20.0	22.0	
63 1,2-Dichloropropane	63	6.418	6.418	0.000	95	208533	20.0	20.9	
66 1,4-Dioxane	88	6.454	6.454	0.000	91	47816	400.0	472.7	
65 Dibromomethane	93	6.489	6.489	0.000	92	133479	20.0	21.1	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	280932	20.0	21.2	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	284394	40.0	38.0	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	96	334672	20.0	20.6	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.059	0.000	96	515869	40.0	38.5	
72 Toluene	91	7.248	7.248	0.000	98	973168	20.0	21.0	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	96	308591	20.0	20.3	
74 Ethyl methacrylate	69	7.426	7.426	0.000	87	277710	20.0	19.0	
75 1,1,2-Trichloroethane	97	7.592	7.592	0.000	89	193625	20.0	21.7	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	214899	20.0	23.9	
77 1,3-Dichloropropane	76	7.746	7.746	0.000	95	330465	20.0	21.0	
78 2-Hexanone	43	7.746	7.746	0.000	94	378488	40.0	37.7	
80 Chlorodibromomethane	129	7.936	7.936	0.000	89	223131	20.0	22.7	
82 Ethylene Dibromide	107	8.055	8.055	0.000	99	204871	20.0	21.2	
84 Chlorobenzene	112	8.470	8.470	0.000	96	606447	20.0	21.3	
86 Ethylbenzene	106	8.541	8.541	0.000	97	332228	20.0	21.2	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	213137	20.0	23.0	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	780569	20.0	21.2	
88 o-Xylene	106	9.003	9.003	0.000	96	368466	20.0	20.8	
89 Styrene	104	9.015	9.015	0.000	94	638165	20.0	21.1	
90 Bromoform	173	9.205	9.205	0.000	98	161483	20.0	23.0	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	945553	20.0	21.7	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.596	0.000	95	262550	20.0	21.0	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	79	77171	20.0	17.1	
95 Bromobenzene	156	9.644	9.644	0.000	93	256196	20.0	21.6	
96 1,2,3-Trichloropropane	110	9.667	9.667	0.000	81	93142	20.0	21.2	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	264790	20.0	20.5	
99 2-Chlorotoluene	126	9.810	9.810	0.000	97	227668	20.0	20.9	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	95	714599	20.0	20.3	
102 4-Chlorotoluene	91	9.916	9.916	0.000	97	672246	20.0	20.1	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	629480	20.0	20.5	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	709076	20.0	20.3	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	815758	20.0	20.3	

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	10.509	10.509	0.000	75	436555	20.0	21.5	
109 4-Isopropyltoluene	119	10.498	10.498	0.000	97	701375	20.0	20.3	
110 1,4-Dichlorobenzene	146	10.592	10.592	0.000	96	438101	20.0	21.1	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	539821	20.0	19.7	
114 1,2-Dichlorobenzene	146	10.936	10.936	0.000	99	385784	20.0	21.4	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.672	0.000	87	61216	20.0	19.7	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	160624	20.0	19.8	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	98	77684	20.0	21.4	
119 Naphthalene	128	12.715	12.715	0.000	96	530312	20.0	18.4	
120 1,2,3-Trichlorobenzene	180	12.917	12.917	0.000	96	149463	20.0	21.1	
S 130 Total BTEX	1				0		100.0	105.3	
S 131 Trihalomethanes, Total	1				0		80.0	88.0	
S 129 Xylenes, Total	106				0		40.0	42.0	

QC Flag Legend

Processing Flags

Reagents:

vmarolistdw_00445	Amount Added: 16.00	Units: uL		
vmrgas_00433	Amount Added: 16.00	Units: uL		
vmrprimw_00489	Amount Added: 16.00	Units: uL		
vm40ml_vials_00018	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00092	Amount Added: 2.00	Units: uL	Run Reagent	
vm50is_stk_A_00011	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00215	Amount Added: 0.00	Units:	Run Reagent	

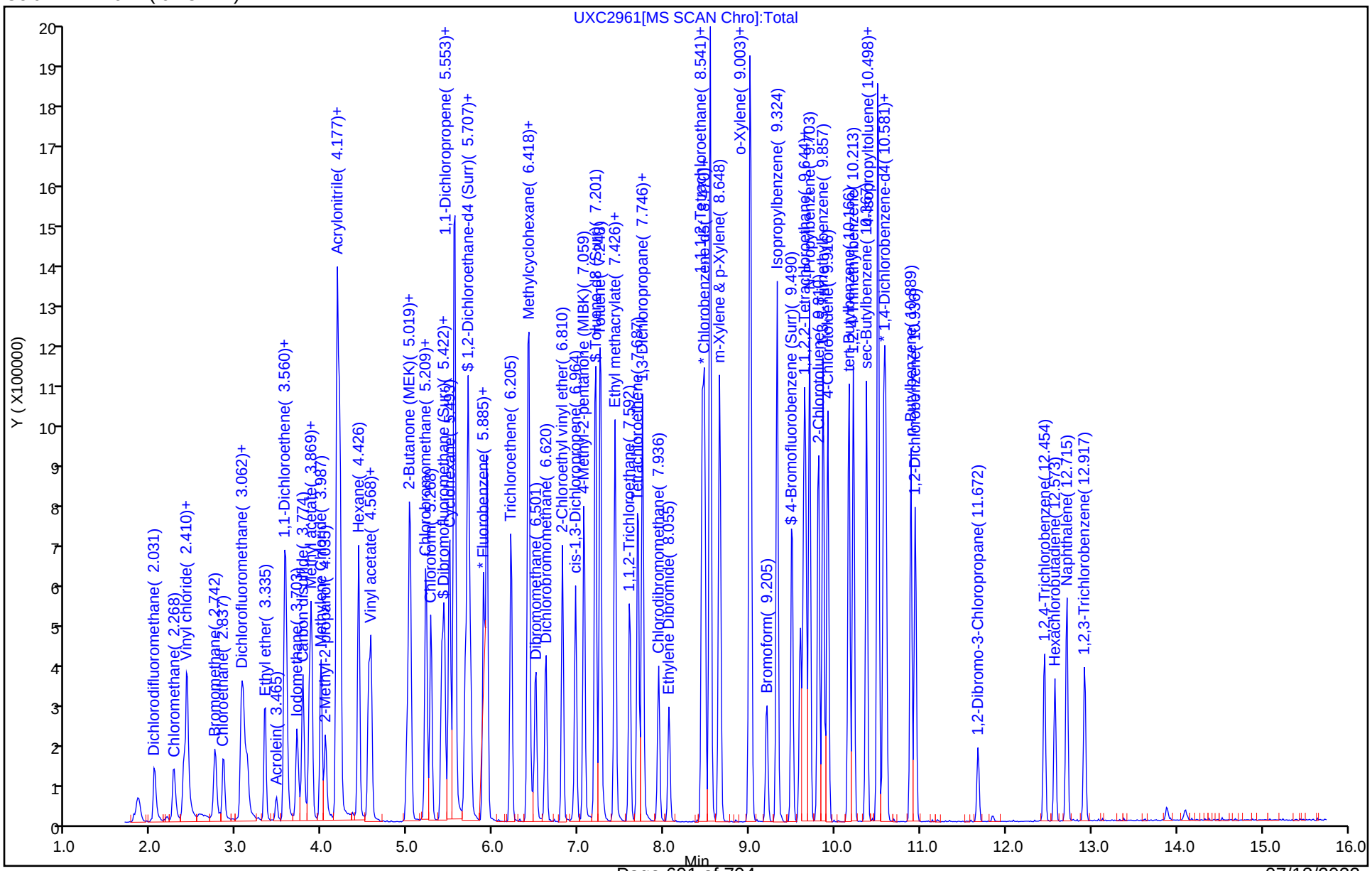
Report Date: 12-Jul-2022 12:40:38 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2961.D

Injection Date:	12-Jul-2022 12:08:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	CCVIS L4 8260			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCV 240-534562/3 Calibration Date: 07/13/2022 13:06

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 20:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 22:33

Lab File ID: UXC2986.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	0.0279	0.0391		0.280	0.200	40.1*	20.0
Diisopropyl ether	Ave	0.2239	0.1927		0.0172	0.0200	-13.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4220	0.3538		0.0168	0.0200	-16.2	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7434	0.6132		0.0165	0.0200	-17.5	20.0
Ethyl acetate	Ave	0.3229	0.2798		0.0347	0.0400	-13.3	20.0
Propionitrile	Ave	0.0447	0.0527		0.236	0.200	17.9	20.0
Methacrylonitrile	Ave	0.1993	0.1838		0.184	0.200	-7.8	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7433	0.6221		0.0167	0.0200	-16.3	20.0
n-Butanol	Ave	0.0116	0.0126		0.542	0.500	8.5	20.0
Ethyl acrylate	Ave	0.3922	0.3333		0.0170	0.0200	-15.0	20.0
Methyl methacrylate	Ave	0.2769	0.2284		0.0330	0.0400	-17.5	20.0
2-Nitropropane	Ave	0.0975	0.0903		0.0370	0.0400	-7.4	20.0
n-Butyl acetate	Ave	0.4603	0.3609		0.0157	0.0200	-21.6*	20.0
1-Chlorohexane	Ave	0.4791	0.3921		0.0164	0.0200	-18.2	20.0
Cyclohexanone	Ave	0.0317	0.0327		0.207	0.200	3.3	20.0
Pentachloroethane	Ave	0.0183	0.1388		0.303	0.0400	657.6*	20.0
1,2,3-Trimethylbenzene	Ave	2.411	2.340		0.0194	0.0200	-3.0	20.0
Benzyl chloride	Ave	0.2937	0.3546		0.0241	0.0200	20.7*	20.0
1,3,5-Trichlorobenzene	Ave	0.6311	0.7940		0.0252	0.0200	25.8*	20.0
2-Methylnaphthalene	Ave	1.009	1.210		0.0480	0.0400	19.9	20.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2986.D
Lims ID: CCV A9 L4
Client ID:
Sample Type: CCV
Inject. Date: 13-Jul-2022 13:06:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-003
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub82

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:47 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 13-Jul-2022 14:05:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	100	810747	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	599510	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	272644	20.0	20.0	
25 Acetonitrile	41	3.833	3.833	0.000	99	316967	200.0	280.1	
37 Isopropyl ether	87	4.568	4.568	0.000	91	156234	20.0	17.2	
38 2-Chloro-1,3-butadiene	53	4.628	4.628	0.000	91	286809	20.0	16.8	
39 Tert-butyl ethyl ether	59	4.853	4.853	0.000	96	497182	20.0	16.5	
43 Ethyl acetate	43	5.007	5.007	0.000	99	453709	40.0	34.7	
44 Propionitrile	54	5.055	5.055	0.000	99	426937	200.0	235.8	
45 Methacrylonitrile	41	5.173	5.173	0.000	90	1490022	200.0	184.5	
54 Isooctane	57	5.766	5.766	0.000	86	451749	20.0	18.5	
57 Tert-amyl methyl ether	73	5.766	5.766	0.000	88	504339	20.0	16.7	
59 n-Butanol	56	6.063	6.063	0.000	87	256066	500.0	542.3	
61 Ethyl acrylate	55	6.229	6.229	0.000	99	270212	20.0	17.0	
64 Methyl methacrylate	41	6.407	6.407	0.000	90	370350	40.0	33.0	
68 2-Nitropropane	41	6.786	6.786	0.000	99	146394	40.0	37.0	
79 n-Butyl acetate	43	7.830	7.830	0.000	95	292609	20.0	15.7	
83 1-Chlorohexane	91	8.411	8.411	0.000	97	235045	20.0	16.4	
92 Cyclohexanone	55	9.430	9.430	0.000	91	89263	200.0	206.6	
105 Pentachloroethane	167	10.213	10.213	0.000	97	166399	40.0	303.0	E
111 1,2,3-Trimethylbenzene	105	10.604	10.604	0.000	98	637854	20.0	19.4	
112 Benzyl chloride	126	10.699	10.699	0.000	98	96686	20.0	24.1	
116 1,3,5-Trichlorobenzene	180	11.850	11.850	0.000	98	216485	20.0	25.2	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	92	659783	40.0	48.0	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	646762	40.0	50.6	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

vm50is_stk_A_00011	Amount Added:	2.00	Units: uL
vmra9w_00442	Amount Added:	16.00	Units: uL

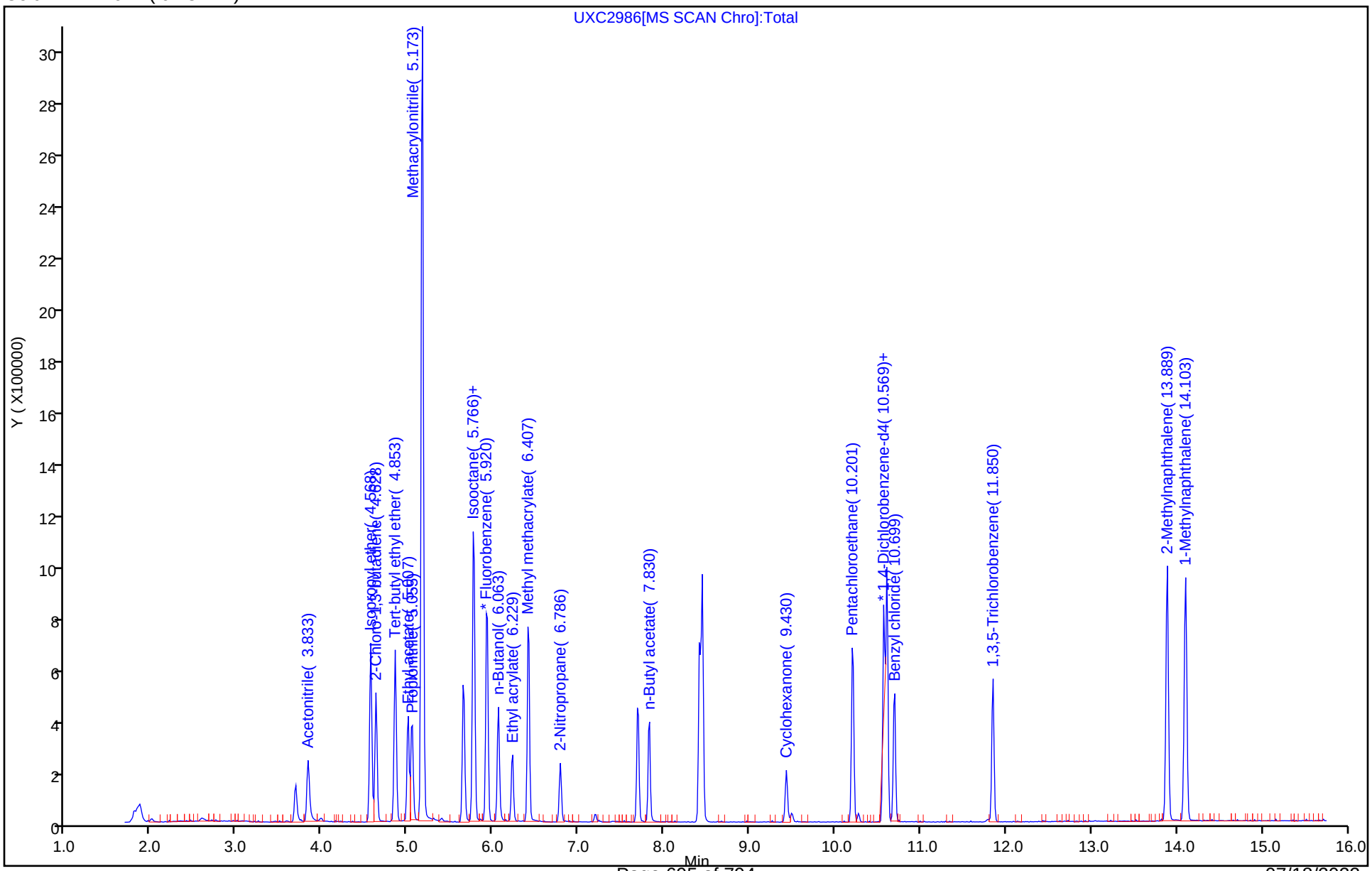
Report Date: 15-Jul-2022 08:41:48 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2986.D

Injection Date:	13-Jul-2022 13:06:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	CCV A9 L4			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534562/7 | Calibration Date: 07/13/2022 14:39

Instrument ID: A3UX15 | Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) | Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2990.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	0.2036	0.2138	0.1000	0.0210	0.0200	5.1	20.0
Chloromethane	Ave	0.2633	0.2353	0.1000	0.0179	0.0200	-10.6	20.0
Vinyl chloride	Ave	0.2696	0.2594	0.1000	0.0192	0.0200	-3.8	20.0
Butadiene	Ave	0.2717	0.2545		0.0187	0.0200	-6.3	20.0
Bromomethane	Ave	0.2097	0.1815	0.0500	0.0173	0.0200	-13.4	20.0
Chloroethane	Ave	0.1956	0.1787	0.0500	0.0183	0.0200	-8.7	20.0
Dichlorofluoromethane	Ave	0.4434	0.4031		0.0182	0.0200	-9.1	20.0
Trichlorofluoromethane	Ave	0.3739	0.3933	0.1000	0.0210	0.0200	5.2	20.0
Ethyl ether	Ave	0.1994	0.2007		0.0201	0.0200	0.6	20.0
Acrolein	Ave	0.0248	0.0164		0.0661	0.100	-33.9*	20.0
1,1-Dichloroethene	Ave	0.2005	0.2208	0.1000	0.0220	0.0200	10.1	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1374	0.1716	0.0500	0.0250	0.0200	24.9*	20.0
Acetone	Lin1		0.1010	0.0100	0.0542	0.0400	35.5	50.0
Iodomethane	Ave	0.3230	0.3632		0.0225	0.0200	12.4	20.0
Carbon disulfide	Ave	0.5853	0.6701	0.1000	0.0229	0.0200	14.5	20.0
Methyl acetate	Ave	0.2451	0.2327	0.1000	0.0380	0.0400	-5.0	50.0
3-Chloro-1-propene	Ave	0.1612	0.1741		0.0216	0.0200	8.0	20.0
Methylene Chloride	Lin1		0.2470	0.1000	0.0211	0.0200	5.4	50.0
tert-Butyl alcohol	Ave	0.0275	0.0395		0.287	0.200	43.5*	20.0
Acrylonitrile	Ave	0.1016	0.1212		0.239	0.200	19.4	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6627	0.1000	0.0196	0.0200	-2.1	20.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2700	0.1000	0.0204	0.0200	2.0	20.0
Hexane	Ave	0.0609	0.0692		0.0228	0.0200	13.8	20.0
Vinyl acetate	Ave	0.3729	0.5183		0.0278	0.0200	39.0*	20.0
1,1-Dichloroethane	Ave	0.4324	0.4380	0.2000	0.0203	0.0200	1.3	20.0
2-Butanone	Ave	0.0421	0.0472	0.0100	0.0448	0.0400	12.0	50.0
cis-1,2-Dichloroethene	Ave	0.2676	0.2805	0.1000	0.0210	0.0200	4.8	20.0
2,2-Dichloropropane	Ave	0.0570	0.0588		0.0206	0.0200	3.0	20.0
Bromochloromethane	Ave	0.1296	0.1418		0.0219	0.0200	9.4	20.0
Tetrahydrofuran	Ave	0.1026	0.1069		0.0417	0.0400	4.2	20.0
Chloroform	Ave	0.4205	0.4414	0.2000	0.0210	0.0200	5.0	20.0
1,1,1-Trichloroethane	Ave	0.3616	0.3951	0.1000	0.0219	0.0200	9.3	20.0
Cyclohexane	Ave	0.3672	0.3745	0.1000	0.0204	0.0200	2.0	20.0
1,1-Dichloropropene	Ave	0.3568	0.3782		0.0212	0.0200	6.0	20.0
Carbon tetrachloride	Ave	0.3272	0.3641	0.1000	0.0223	0.0200	11.3	20.0
Isobutyl alcohol	Ave	0.0110	0.0149		0.674	0.500	34.8*	20.0
Benzene	Ave	0.9923	1.059	0.5000	0.0213	0.0200	6.7	20.0
1,2-Dichloroethane	Ave	0.3343	0.3452	0.1000	0.0206	0.0200	3.2	20.0
n-Heptane	Ave	0.0553	0.0634		0.0229	0.0200	14.6	20.0
Trichloroethene	Ave	0.2793	0.3104	0.1500	0.0222	0.0200	11.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534562/7 Calibration Date: 07/13/2022 14:39

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2990.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	0.3575	0.3932	0.1000	0.0220	0.0200	10.0	20.0
1,2-Dichloropropane	Ave	0.2324	0.2384	0.1000	0.0205	0.0200	2.6	20.0
1,4-Dioxane	Ave	0.0024	0.0039		0.670	0.400	67.6*	50.0
Dibromomethane	Ave	0.1473	0.1577		0.0214	0.0200	7.0	20.0
Bromodichloromethane	Ave	0.3083	0.3271	0.1500	0.0212	0.0200	6.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1741	0.1721		0.0395	0.0400	-1.1	20.0
cis-1,3-Dichloropropene	Ave	0.3776	0.3912	0.1500	0.0207	0.0200	3.6	50.0
4-Methyl-2-pentanone	Ave	0.3120	0.3141	0.0500	0.0403	0.0400	0.7	50.0
Toluene	Ave	1.486	1.581	0.4000	0.0213	0.0200	6.4	20.0
Ethyl methacrylate	Ave	0.4694	0.4558		0.0194	0.0200	-2.9	20.0
trans-1,3-Dichloropropene	Ave	0.4889	0.4944	0.1000	0.0202	0.0200	1.1	20.0
1,1,2-Trichloroethane	Ave	0.2863	0.3124	0.1000	0.0218	0.0200	9.1	20.0
Tetrachloroethene	Ave	0.2892	0.3620	0.1500	0.0250	0.0200	25.2*	20.0
1,3-Dichloropropane	Ave	0.5046	0.5396		0.0214	0.0200	6.9	20.0
2-Hexanone	Ave	0.3226	0.3153	0.0500	0.0391	0.0400	-2.3	50.0
Dibromochloromethane	Ave	0.3155	0.3599		0.0228	0.0200	14.1	20.0
1,2-Dibromoethane	Ave	0.3099	0.3396		0.0219	0.0200	9.6	20.0
Chlorobenzene	Ave	0.9126	1.013	0.3000	0.0222	0.0200	11.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2978	0.3512		0.0236	0.0200	18.0	20.0
Ethylbenzene	Ave	0.5027	0.5558		0.0221	0.0200	10.6	20.0
m-Xylene & p-Xylene	Ave	1.183	1.293		0.0219	0.0200	9.3	20.0
o-Xylene	Ave	0.5690	0.6302		0.0222	0.0200	10.8	20.0
Styrene	Ave	0.9710	1.072	0.3000	0.0221	0.0200	10.4	20.0
Bromoform	Ave	0.2255	0.2818	0.1000	0.0250	0.0200	25.0*	20.0
Isopropylbenzene	Ave	1.401	1.573	0.1000	0.0225	0.0200	12.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7873	0.8412	0.3000	0.0214	0.0200	6.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2855	0.2481		0.0174	0.0200	-13.1	20.0
Bromobenzene	Ave	0.7492	0.8316		0.0222	0.0200	11.0	20.0
1,2,3-Trichloropropane	Ave	0.2777	0.2994		0.0216	0.0200	7.8	20.0
n-Propylbenzene	Ave	0.8157	0.8784		0.0215	0.0200	7.7	20.0
2-Chlorotoluene	Ave	0.6877	0.7412		0.0216	0.0200	7.8	20.0
1,3,5-Trimethylbenzene	Ave	2.223	2.355		0.0212	0.0200	6.0	20.0
4-Chlorotoluene	Ave	2.113	2.119		0.0201	0.0200	0.3	20.0
tert-Butylbenzene	Ave	1.938	2.024		0.0209	0.0200	4.5	20.0
1,2,4-Trimethylbenzene	Ave	2.207	2.364		0.0214	0.0200	7.1	20.0
sec-Butylbenzene	Ave	2.539	2.709		0.0213	0.0200	6.7	20.0
1,3-Dichlorobenzene	Ave	1.279	1.455	0.6000	0.0227	0.0200	13.7	20.0
p-Isopropyltoluene	Ave	2.175	2.360		0.0217	0.0200	8.5	20.0
1,4-Dichlorobenzene	Ave	1.309	1.446	0.5000	0.0221	0.0200	10.5	20.0
n-Butylbenzene	Ave	1.730	1.856		0.0215	0.0200	7.3	20.0
1,2-Dichlorobenzene	Ave	1.135	1.326	0.4000	0.0234	0.0200	16.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Lab Sample ID: CCVIS 240-534562/7 Calibration Date: 07/13/2022 14:39

Instrument ID: A3UX15 Calib Start Date: 06/17/2022 15:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/17/2022 18:14

Lab File ID: UXC2990.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	0.1962	0.2229	0.0500	0.0227	0.0200	13.6	50.0
1,2,4-Trichlorobenzene	Ave	0.5120	0.6433	0.2000	0.0251	0.0200	25.6	50.0
Hexachlorobutadiene	Ave	0.2294	0.3159		0.0275	0.0200	37.7	50.0
Naphthalene	Ave	1.819	2.133		0.0234	0.0200	17.2	50.0
1,2,3-Trichlorobenzene	Ave	0.4464	0.6357		0.0285	0.0200	42.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2320	0.2403		0.0207	0.0200	3.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2911	0.2808		0.0193	0.0200	-3.5	20.0
Toluene-d8 (Surr)	Ave	1.337	1.311		0.0196	0.0200	-1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4669	0.4402		0.0189	0.0200	-5.7	20.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2990.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Jul-2022 14:39:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-007
Operator ID: 001904 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub79

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 15:12:01 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 15:12:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	869658	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	637387	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	93	335395	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	94	208972	20.0	20.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	244182	20.0	19.3	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	835841	20.0	19.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	97	280559	20.0	18.9	
9 Dichlorodifluoromethane	85	2.043	2.043	0.000	99	185969	20.0	21.0	
10 Chloromethane	50	2.268	2.268	0.000	99	204643	20.0	17.9	
11 Vinyl chloride	62	2.387	2.387	0.000	98	225595	20.0	19.2	
12 Butadiene	54	2.422	2.422	0.000	97	221324	20.0	18.7	
13 Bromomethane	94	2.754	2.754	0.000	90	157867	20.0	17.3	
14 Chloroethane	64	2.849	2.849	0.000	100	155380	20.0	18.3	
15 Dichlorofluoromethane	67	3.063	3.063	0.000	98	350547	20.0	18.2	
16 Trichlorofluoromethane	101	3.086	3.086	0.000	98	342023	20.0	21.0	
17 Ethyl ether	59	3.335	3.335	0.000	90	174500	20.0	20.1	
18 Acrolein	56	3.466	3.466	0.000	98	71143	100.0	66.1	
19 1,1-Dichloroethene	96	3.561	3.561	0.000	98	192007	20.0	22.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.584	3.584	0.000	92	149202	20.0	25.0	
21 Acetone	43	3.584	3.584	0.000	100	175750	40.0	54.2	
22 Iodomethane	142	3.715	3.715	0.000	98	315820	20.0	22.5	
24 Carbon disulfide	76	3.774	3.774	0.000	99	582737	20.0	22.9	
27 Methyl acetate	43	3.857	3.857	0.000	97	404803	40.0	38.0	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	90	151424	20.0	21.6	
28 Methylene Chloride	84	3.987	3.987	0.000	89	214786	20.0	21.1	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	97	343383	200.0	287.1	
30 Acrylonitrile	53	4.177	4.177	0.000	98	1054404	200.0	238.8	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	576337	20.0	19.6	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	97	234779	20.0	20.4	
34 Hexane	86	4.426	4.426	0.000	92	60223	20.0	22.8	
36 Vinyl acetate	43	4.545	4.545	0.000	97	450766	20.0	27.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	4.569	4.569	0.000	96	380912	20.0	20.3	
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	82084	40.0	44.8	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	80	243966	20.0	21.0	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	89	51098	20.0	20.6	
46 Chlorobromomethane	128	5.209	5.209	0.000	91	123288	20.0	21.9	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	185979	40.0	41.7	
48 Chloroform	83	5.268	5.268	0.000	93	383886	20.0	21.0	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	343631	20.0	21.9	
50 Cyclohexane	56	5.494	5.494	0.000	86	325720	20.0	20.4	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	96	328942	20.0	21.2	
52 Carbon tetrachloride	117	5.553	5.553	0.000	81	316652	20.0	22.3	
53 Isobutyl alcohol	41	5.553	5.553	0.000	92	323374	500.0	673.9	
55 Benzene	78	5.707	5.707	0.000	96	920892	20.0	21.3	
56 1,2-Dichloroethane	62	5.731	5.731	0.000	97	300215	20.0	20.6	
58 n-Heptane	100	5.897	5.897	0.000	88	55143	20.0	22.9	
60 Trichloroethene	130	6.205	6.205	0.000	95	269899	20.0	22.2	
62 Methylcyclohexane	83	6.407	6.407	0.000	90	341917	20.0	22.0	
63 1,2-Dichloropropane	63	6.418	6.418	0.000	95	207306	20.0	20.5	
66 1,4-Dioxane	88	6.466	6.466	0.000	90	68679	400.0	670.5	
65 Dibromomethane	93	6.490	6.490	0.000	90	137107	20.0	21.4	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	284451	20.0	21.2	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	299364	40.0	39.5	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	96	340238	20.0	20.7	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.059	0.000	96	546394	40.0	40.3	
72 Toluene	91	7.260	7.260	0.000	99	1007599	20.0	21.3	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	96	315100	20.0	20.2	
74 Ethyl methacrylate	69	7.426	7.426	0.000	87	290528	20.0	19.4	
75 1,1,2-Trichloroethane	97	7.592	7.592	0.000	91	199136	20.0	21.8	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	230754	20.0	25.0	
78 2-Hexanone	43	7.747	7.747	0.000	94	401952	40.0	39.1	
77 1,3-Dichloropropane	76	7.747	7.747	0.000	95	343914	20.0	21.4	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	229417	20.0	22.8	
82 Ethylene Dibromide	107	8.055	8.055	0.000	97	216462	20.0	21.9	
84 Chlorobenzene	112	8.470	8.470	0.000	96	645495	20.0	22.2	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	223871	20.0	23.6	
86 Ethylbenzene	106	8.541	8.541	0.000	97	354241	20.0	22.1	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	824160	20.0	21.9	
88 o-Xylene	106	9.004	9.004	0.000	96	401707	20.0	22.2	
89 Styrene	104	9.016	9.016	0.000	94	683478	20.0	22.1	
90 Bromoform	173	9.205	9.205	0.000	98	179588	20.0	25.0	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	1002734	20.0	22.5	
94 1,1,2,2-Tetrachloroethane	83	9.597	9.597	0.000	95	282150	20.0	21.4	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	77	83196	20.0	17.4	
95 Bromobenzene	156	9.644	9.644	0.000	90	278927	20.0	22.2	
96 1,2,3-Trichloropropane	110	9.656	9.656	0.000	79	100408	20.0	21.6	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	294617	20.0	21.5	
99 2-Chlorotoluene	126	9.810	9.810	0.000	97	248584	20.0	21.6	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	94	789960	20.0	21.2	
102 4-Chlorotoluene	91	9.917	9.917	0.000	97	710696	20.0	20.1	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	678808	20.0	20.9	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	792751	20.0	21.4	
107 sec-Butylbenzene	105	10.367	10.367	0.000	93	908719	20.0	21.3	

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	10.498	10.498	0.000	97	791622	20.0	21.7	
108 1,3-Dichlorobenzene	146	10.498	10.498	0.000	75	488076	20.0	22.7	
110 1,4-Dichlorobenzene	146	10.593	10.593	0.000	95	485049	20.0	22.1	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	622398	20.0	21.5	
114 1,2-Dichlorobenzene	146	10.937	10.937	0.000	99	444576	20.0	23.4	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.672	0.000	89	74751	20.0	22.7	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	95	215745	20.0	25.1	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	96	105946	20.0	27.5	
119 Naphthalene	128	12.715	12.715	0.000	96	715237	20.0	23.4	
120 1,2,3-Trichlorobenzene	180	12.917	12.917	0.000	96	213221	20.0	28.5	
S 130 Total BTEX	1				0		100.0	108.7	
S 131 Trihalomethanes, Total	1				0		80.0	90.0	
S 129 Xylenes, Total	106				0		40.0	44.0	

QC Flag Legend

Processing Flags

Reagents:

vmrgas_00433	Amount Added:	16.00	Units: uL	
vmarolistdw_00445	Amount Added:	16.00	Units: uL	
vmrprimw_00489	Amount Added:	16.00	Units: uL	
vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

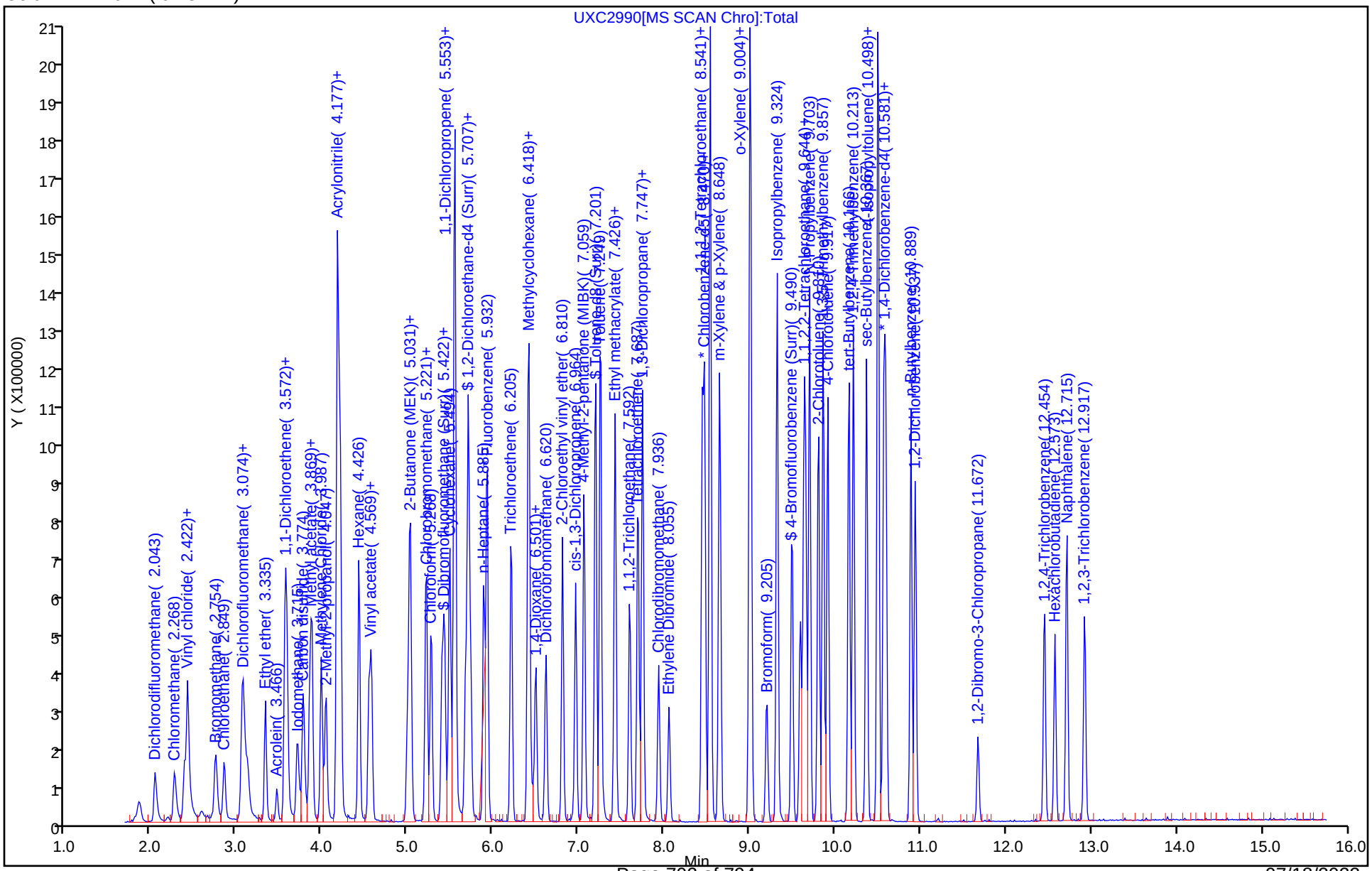
Report Date: 13-Jul-2022 15:12:01 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2990.D

Injection Date:	13-Jul-2022 14:39:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	CCVIS L4 8260			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\BFB1270.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 17-Jun-2022 14:42:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0119589-001
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 20-Jun-2022 10:43:50 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: laveyt Date: 17-Jun-2022 14:51:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.096	4.096	0.000	0	258816	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

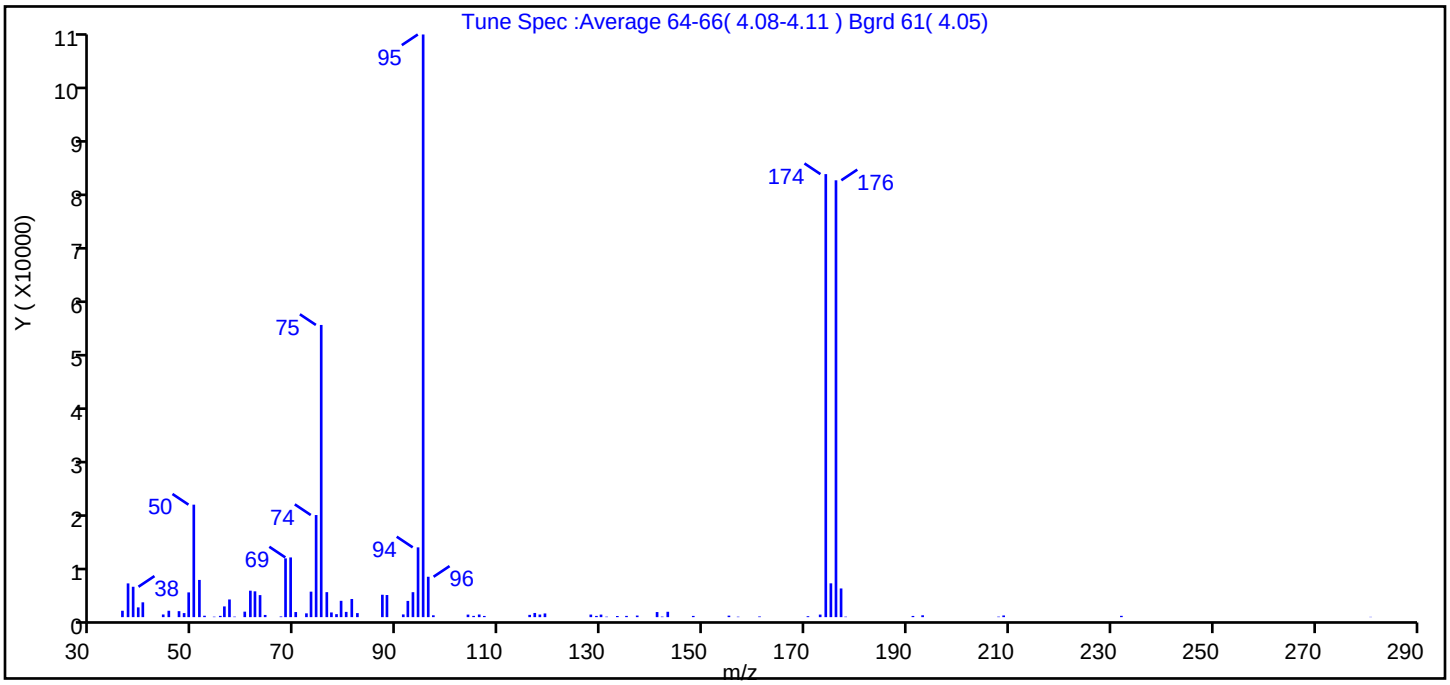
vmbfb_00030 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\BFB1270.D
Injection Date: 17-Jun-2022 14:42:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 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	19.3
75	30 to 60% of m/z 95	50.1
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.4 (0.6)
174	50 to 120% of m/z 95	76.0
175	5 to 9% of m/z 174	5.8 (7.6)
176	Greater than 95% but less than 101% of m/z 174	75.0 (98.6)
177	5 to 9% of m/z 176	4.9 (6.6)

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\BFB1270.D\8260_15.rslt\spectra.d
Injection Date: 17-Jun-2022 14:42:30
Spectrum: Tune Spec :Average 64-66(4.08-4.11) Bgrd 61(4.05)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1182	63.00	4078	93.00	4619	142.00	102
37.00	6245	64.00	407	94.00	12914	143.00	994
38.00	5624	67.00	127	95.00	107824	148.00	227
39.00	1807	68.00	10880	96.00	7474	155.00	275
40.00	2743	69.00	11050	97.00	341	157.00	84
44.00	492	70.00	945	104.00	471	161.00	127
45.00	1182	72.00	704	105.00	232	170.00	173
47.00	1109	73.00	4717	106.00	488	173.00	472
48.00	753	74.00	18896	107.00	221	174.00	81984
49.00	4580	75.00	54072	116.00	422	175.00	6257
50.00	20816	76.00	4626	117.00	774	176.00	80840
51.00	6887	77.00	870	118.00	481	177.00	5310
52.00	261	78.00	554	119.00	684	178.00	90
54.00	85	79.00	3020	128.00	473	191.00	224
55.00	235	80.00	973	129.00	228	193.00	343
56.00	1985	81.00	3360	130.00	472	208.00	93
57.00	3272	82.00	747	131.00	88	209.00	309
58.00	95	87.00	4145	133.00	210	232.00	243
60.00	1016	88.00	4094	135.00	232	281.00	51
61.00	4894	91.00	503	137.00	291		
62.00	4777	92.00	3003	141.00	944		

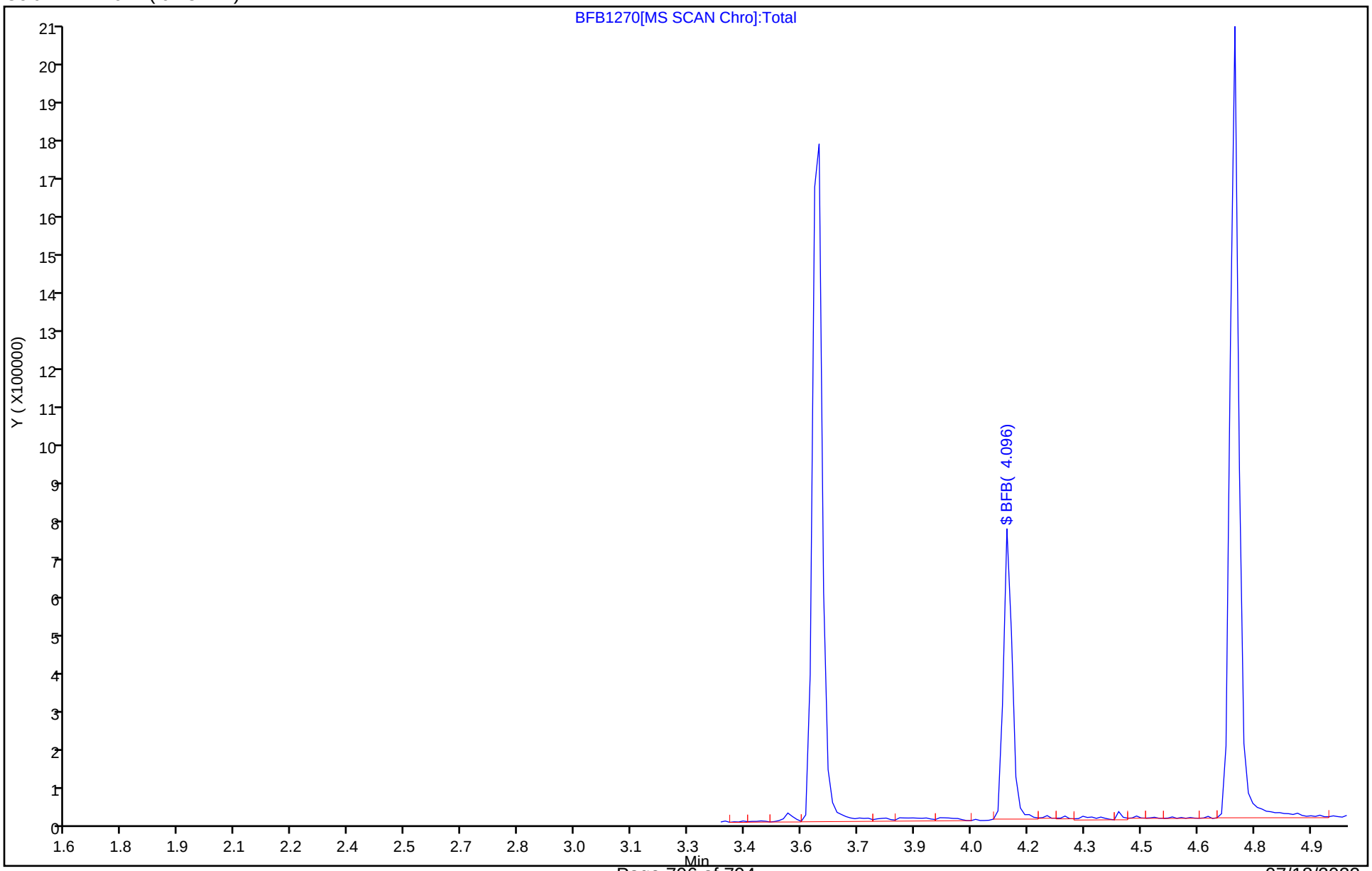
Report Date: 20-Jun-2022 10:43:50 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\BFB1270.D

Injection Date:	17-Jun-2022 14:42:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\BFB1290.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Jul-2022 13:35:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-001
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jul-2022 13:46:54 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: MAW1 Date: 11-Jul-2022 13:46:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.096	4.096	0.000	0	435773	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

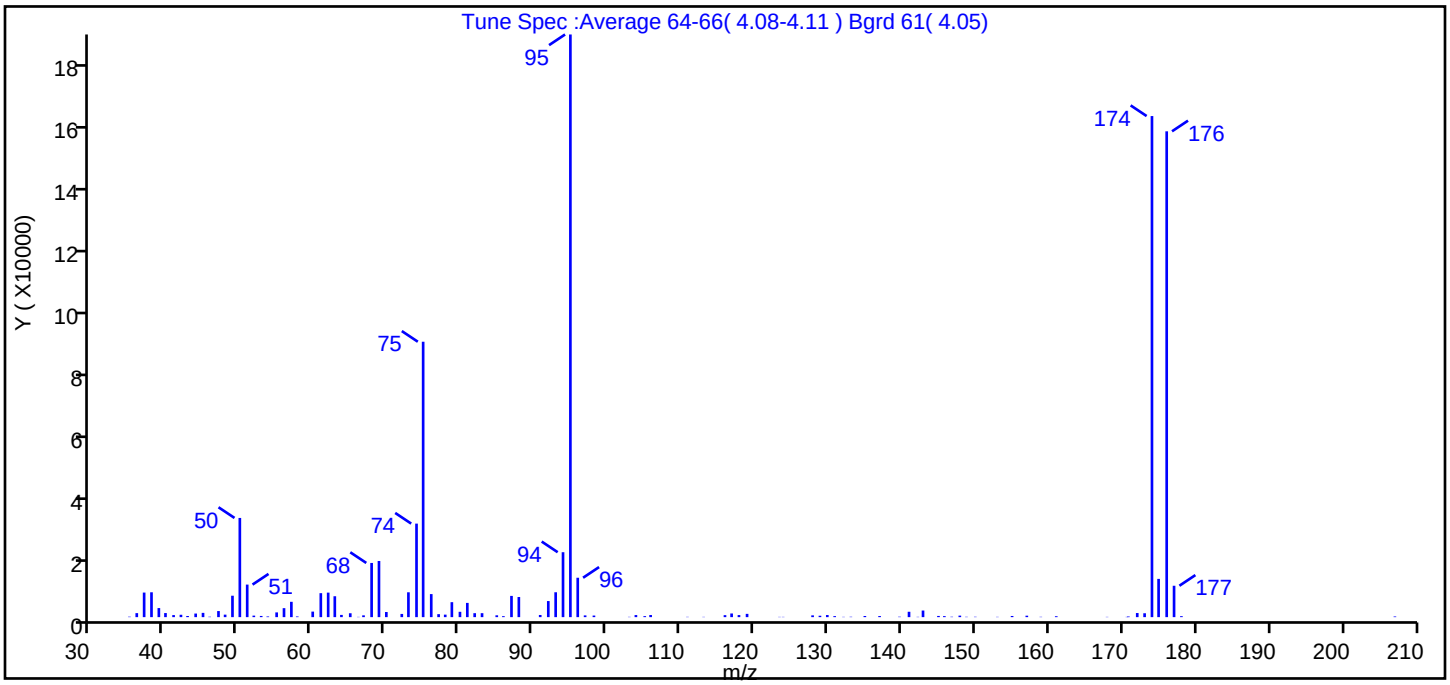
vmbfb_00030 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\BFB1290.D
Injection Date: 11-Jul-2022 13:35:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.0
75	30 to 60% of m/z 95	47.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	86.0
175	5 to 9% of m/z 174	6.6 (7.6)
176	Greater than 95% but less than 101% of m/z 174	83.4 (97.0)
177	5 to 9% of m/z 176	5.4 (6.5)

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\BFB1290.D\8260_15.rslt\spectra.d
Injection Date: 11-Jul-2022 13:35:30
Spectrum: Tune Spec :Average 64-66(4.08-4.11) Bgrd 61(4.05)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	142	63.00	6576	94.00	20424	142.00	96
36.00	1263	64.00	704	95.00	183296	143.00	2081
37.00	7731	65.00	1224	96.00	12392	145.00	378
38.00	7822	66.00	83	97.00	548	146.00	317
39.00	2853	67.00	564	98.00	501	147.00	130
40.00	1286	68.00	17048	103.00	94	148.00	476
41.00	647	69.00	17664	104.00	652	149.00	110
42.00	749	70.00	1614	105.00	318	150.00	119
43.00	360	72.00	1010	106.00	665	153.00	92
44.00	1130	73.00	7820	111.00	93	155.00	365
45.00	1344	74.00	29424	113.00	85	157.00	457
46.00	130	75.00	86640	116.00	624	159.00	104
47.00	1914	76.00	7253	117.00	1152	161.00	287
48.00	786	77.00	938	118.00	650	168.00	83
49.00	6740	78.00	789	119.00	1033	171.00	85
50.00	31208	79.00	4708	123.00	83	171.00	199
51.00	10242	80.00	1680	124.00	86	172.00	1293
52.00	478	81.00	4478	128.00	560	173.00	1223
53.00	375	82.00	1247	129.00	443	174.00	157632
54.00	215	83.00	1248	130.00	661	175.00	12034
55.00	1492	85.00	579	131.00	321	176.00	152832
56.00	2827	86.00	305	132.00	90	177.00	9875
57.00	4824	87.00	6682	133.00	123	178.00	303
58.00	216	88.00	6330	135.00	360	207.00	210
60.00	1743	91.00	677	137.00	343		
61.00	7544	92.00	5060	140.00	138		
62.00	7713	93.00	7828	141.00	1691		

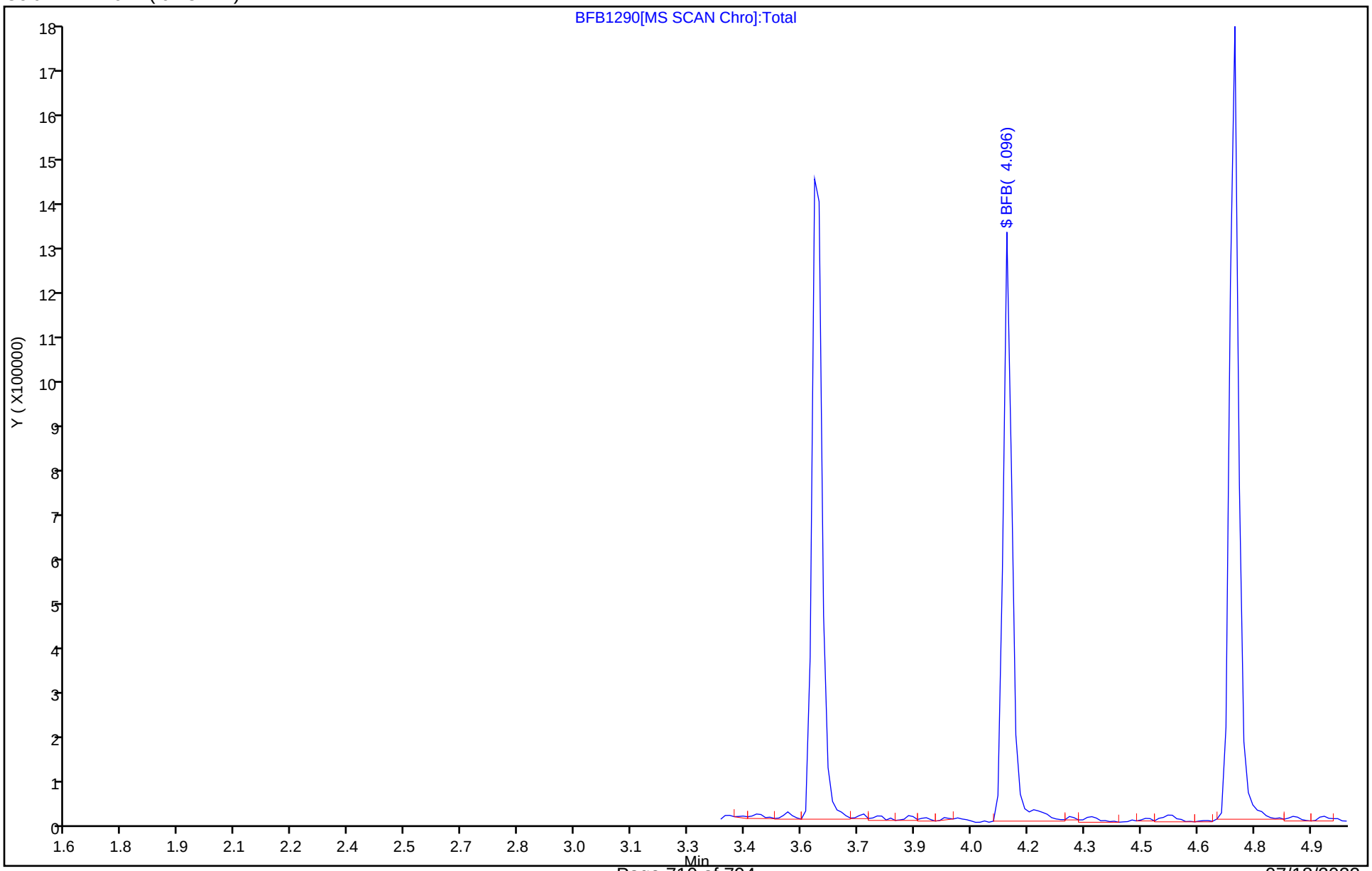
Report Date: 11-Jul-2022 13:46:54 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\BFB1290.D

Injection Date:	11-Jul-2022 13:35:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\BFB1291.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 12-Jul-2022 11:22:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-001
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 11:34:14 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 11:34:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.096	4.096	0.000	0	417349	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

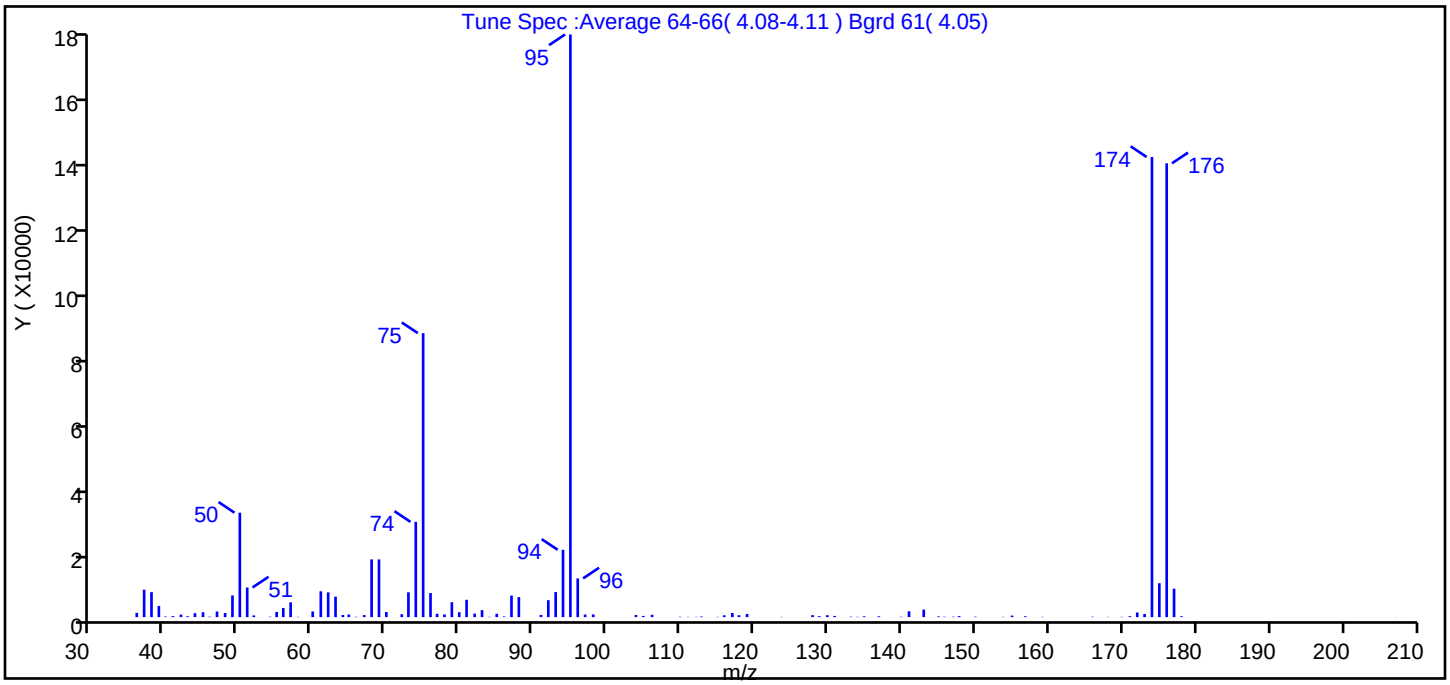
vmbfb_00030 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\BFB1291.D
Injection Date: 12-Jul-2022 11:22:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.9
75	30 to 60% of m/z 95	48.7
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	79.0
175	5 to 9% of m/z 174	5.8 (7.4)
176	Greater than 95% but less than 101% of m/z 174	77.9 (98.6)
177	5 to 9% of m/z 176	4.9 (6.3)

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\BFB1291.D\8260_15.rslt\spectra.d
Injection Date: 12-Jul-2022 11:22:30
Spectrum: Tune Spec :Average 64-66(4.08-4.11) Bgrd 61(4.05)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1257	64.00	638	93.00	7401	137.00	240
37.00	8095	65.00	792	94.00	19872	140.00	99
38.00	7383	66.00	103	95.00	171968	141.00	1715
39.00	3321	67.00	616	96.00	11430	143.00	2228
40.00	182	68.00	17048	97.00	768	145.00	221
41.00	307	69.00	17032	98.00	804	146.00	124
42.00	757	70.00	1519	104.00	645	147.00	130
43.00	254	72.00	855	105.00	361	148.00	317
44.00	1168	73.00	7330	106.00	698	150.00	139
45.00	1452	74.00	28128	110.00	111	154.00	92
46.00	139	75.00	83824	111.00	88	155.00	459
47.00	1667	76.00	7104	112.00	83	157.00	256
48.00	1206	77.00	997	113.00	195	159.00	93
49.00	6408	78.00	787	115.00	94	166.00	131
50.00	30824	79.00	4405	116.00	547	168.00	85
51.00	8756	80.00	1454	117.00	1216	170.00	90
52.00	511	81.00	5121	118.00	570	171.00	283
54.00	133	82.00	1052	119.00	939	172.00	1362
55.00	1540	83.00	2067	124.00	86	173.00	931
56.00	2716	84.00	92	128.00	590	174.00	135808
57.00	4372	85.00	990	129.00	280	175.00	10017
58.00	94	86.00	202	130.00	575	176.00	133952
60.00	1672	87.00	6374	131.00	364	177.00	8406
61.00	7629	88.00	5907	133.00	139	178.00	262
62.00	7313	91.00	668	134.00	94	207.00	31
63.00	6052	92.00	5003	135.00	248		

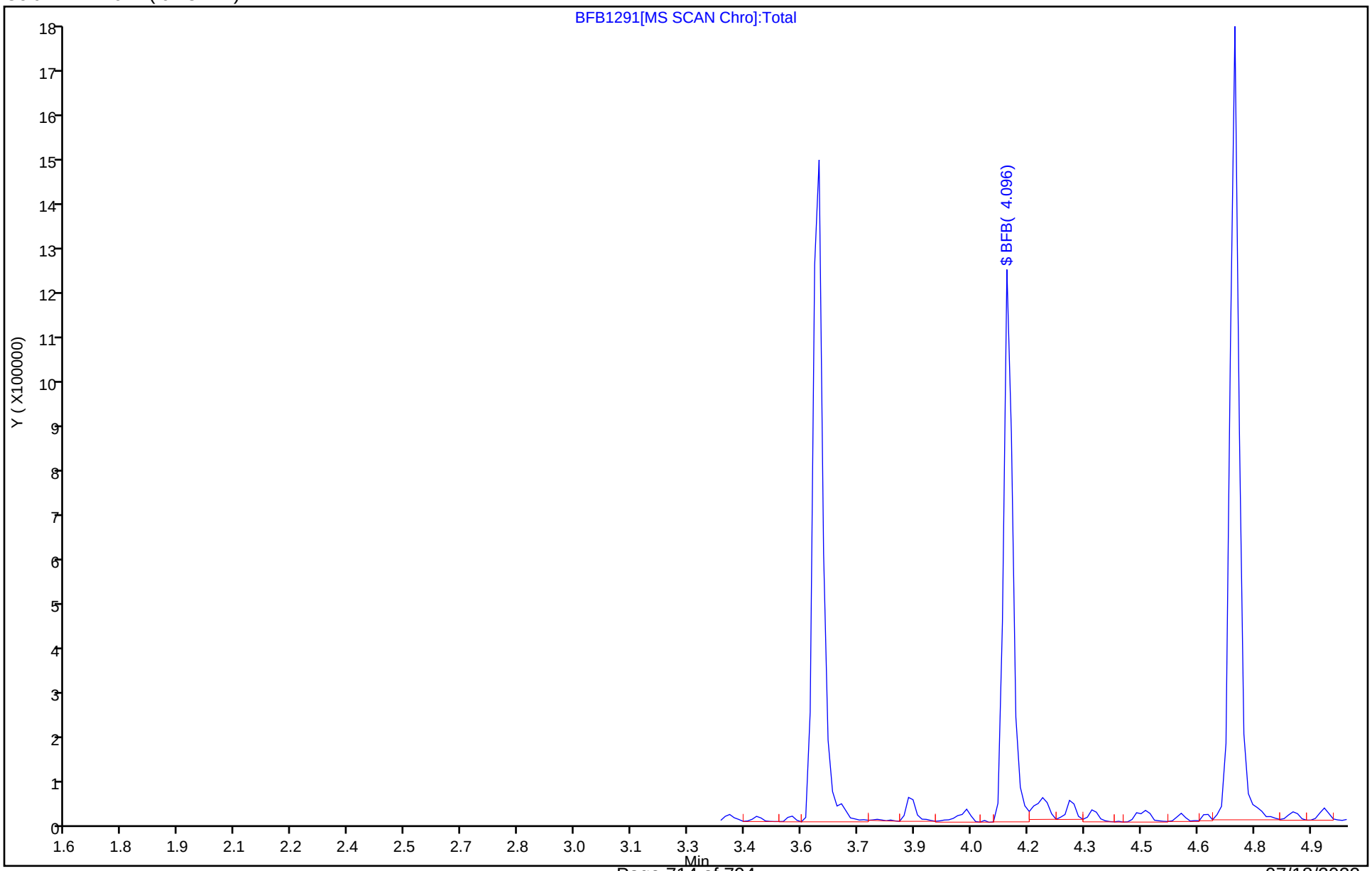
Report Date: 12-Jul-2022 11:34:15 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\BFB1291.D

Injection Date:	12-Jul-2022 11:22:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\BFB1294.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Jul-2022 12:41:30 ALS Bottle#: 2 Worklist Smp#: 33
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-002
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 08:41:12 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 08:41:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.072	4.072	0.000	0	111212	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

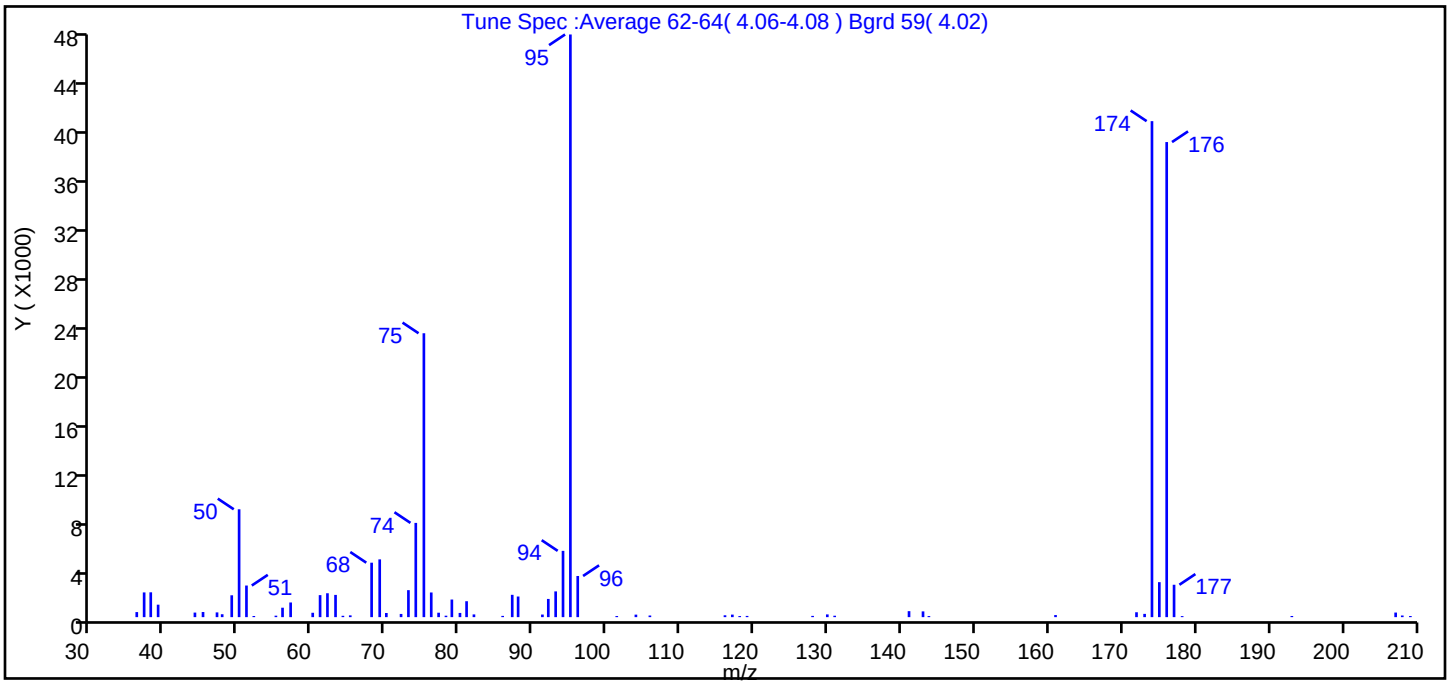
vmbfb_00030 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\BFB1294.D
Injection Date: 13-Jul-2022 12:41:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 33
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 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	18.5
75	30 to 60% of m/z 95	48.7
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	85.1
175	5 to 9% of m/z 174	6.0 (7.1)
176	Greater than 95% but less than 101% of m/z 174	81.5 (95.8)
177	5 to 9% of m/z 176	5.6 (6.8)

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\BFB1294.D\8260_15.rslt\spectra.d
Injection Date: 13-Jul-2022 12:41:30
Spectrum: Tune Spec :Average 62-64(4.06-4.08) Bgrd 59(4.02)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	411	63.00	1804	87.00	1811	141.00	486
37.00	2006	64.00	109	88.00	1674	143.00	467
38.00	2015	65.00	144	91.00	211	144.00	87
39.00	1011	68.00	4418	92.00	1477	161.00	169
44.00	370	69.00	4687	93.00	2089	172.00	397
45.00	416	70.00	336	94.00	5378	173.00	265
47.00	385	72.00	260	95.00	47272	174.00	40240
48.00	236	73.00	2189	96.00	3339	175.00	2838
49.00	1773	74.00	7646	101.00	90	176.00	38544
50.00	8750	75.00	23032	104.00	204	177.00	2628
51.00	2565	76.00	2001	106.00	132	178.00	84
52.00	92	77.00	359	116.00	151	193.00	94
55.00	119	78.00	117	117.00	206	207.00	372
56.00	765	79.00	1429	118.00	87	208.00	133
57.00	1190	80.00	341	119.00	99	209.00	90
60.00	355	81.00	1292	128.00	102		
61.00	1786	82.00	222	130.00	222		
62.00	1938	86.00	102	131.00	115		

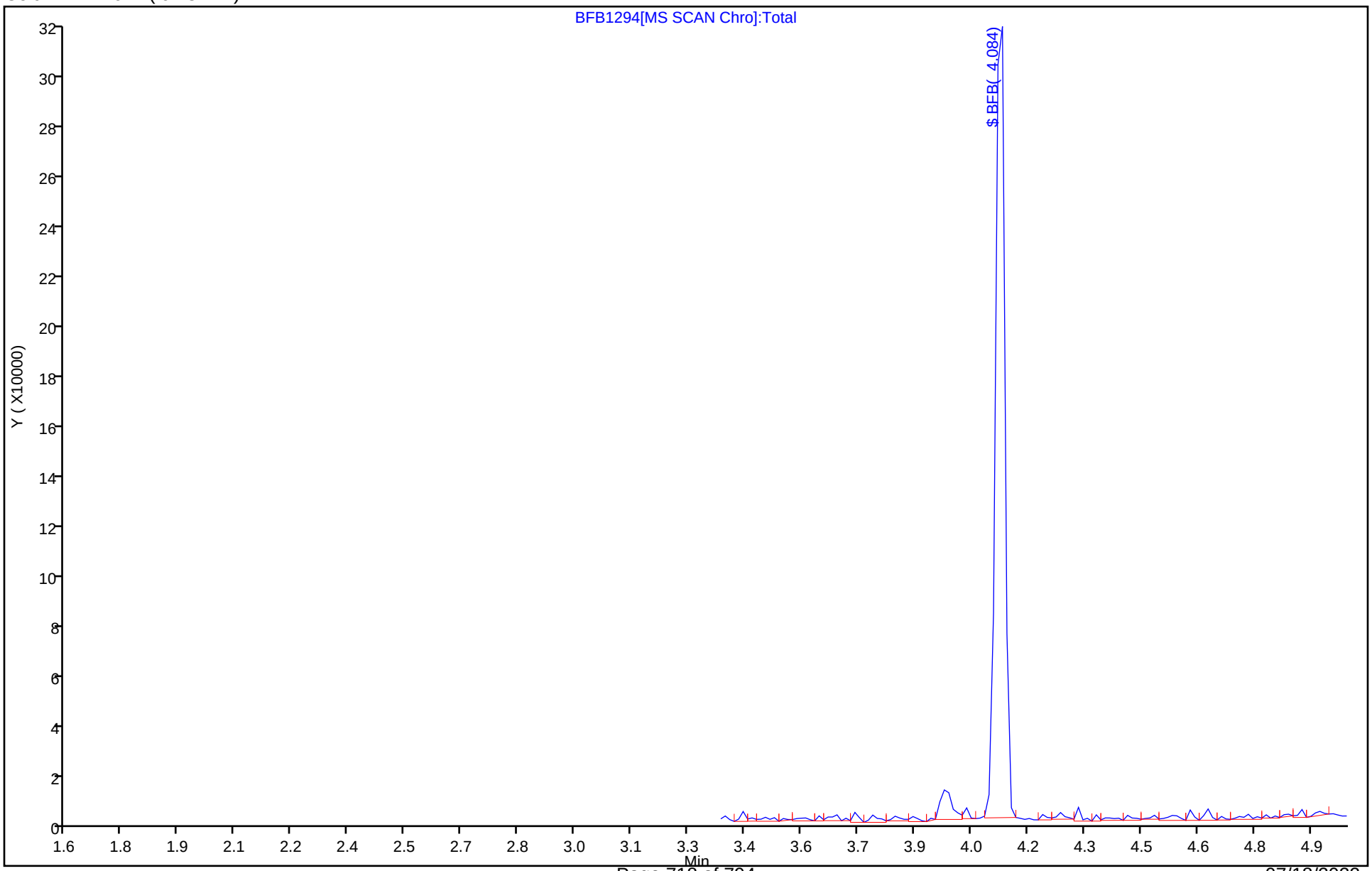
Report Date: 15-Jul-2022 08:41:12 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\BFB1294.D

Injection Date:	13-Jul-2022 12:41:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	33
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534172/8

Matrix: Water | Lab File ID: UXC2950.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 15:54

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534172/8

Matrix: Water | Lab File ID: UXC2950.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 15:54

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534172/8

Matrix: Water | Lab File ID: UXC2950.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 15:54

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		56-136
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534172/8

Matrix: Water | Lab File ID: UXC2950.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 15:54

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2950.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 11-Jul-2022 15:54:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-008
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jul-2022 17:19:33 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 08:17:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	99	820789	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	616954	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	271275	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	93	200255	20.0	21.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.683	-0.012	100	236827	20.0	19.8	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	749554	20.0	18.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	244794	20.0	17.0	
160 Chlorobenzene-d5 (IS)	117		0.680					ND	
9 Dichlorodifluoromethane	85		2.054					ND	
10 Chloromethane	50		2.280					ND	
11 Vinyl chloride	62		2.398					ND	
12 Butadiene	54		2.434					ND	
13 Bromomethane	94		2.754					ND	
14 Chloroethane	64		2.861					ND	
15 Dichlorofluoromethane	67		3.062					ND	
16 Trichlorofluoromethane	101		3.086					ND	
17 Ethyl ether	59		3.335					ND	
18 Acrolein	56		3.477					ND	
19 1,1-Dichloroethene	96		3.572					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584					ND	
21 Acetone	43		3.596					ND	7
23 Methylal	45		3.652					ND	
22 Iodomethane	142		3.715					ND	
24 Carbon disulfide	76		3.786					ND	7
25 Acetonitrile	41		3.833					ND	
27 Methyl acetate	43		3.857					ND	
26 3-Chloro-1-propene	76		3.881					ND	
28 Methylene Chloride	84		3.987					ND	7
29 2-Methyl-2-propanol	59		4.047					ND	
30 Acrylonitrile	53	4.177	4.177	0.000	43	613		0.1471	
31 Methyl tert-butyl ether	73		4.201					ND	
32 trans-1,2-Dichloroethene	96		4.213					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Chlorodifluoromethane TIC	51		4.221					ND	
34 Hexane	86		4.438					ND	
36 Vinyl acetate	43		4.545					ND	
37 Isopropyl ether	87		4.568					ND	
35 1,1-Dichloroethane	63		4.580					ND	
38 2-Chloro-1,3-butadiene	53		4.628					ND	
39 Tert-butyl ethyl ether	59		4.853					ND	
40 2-Butanone (MEK)	72		4.995					ND	
43 Ethyl acetate	43		5.007					ND	
41 cis-1,2-Dichloroethene	96		5.031					ND	
42 2,2-Dichloropropane	97		5.031					ND	
44 Propionitrile	54		5.055					ND	
45 Methacrylonitrile	41		5.173					ND	
46 Chlorobromomethane	128		5.221					ND	
47 Tetrahydrofuran	42		5.221					ND	
48 Chloroform	83		5.280					ND	
49 1,1,1-Trichloroethane	97		5.434					ND	
50 Cyclohexane	56		5.493					ND	
51 1,1-Dichloropropene	75		5.541					ND	
52 Carbon tetrachloride	117		5.553					ND	
53 Isobutyl alcohol	41		5.553					ND	
55 Benzene	78		5.707					ND	
56 1,2-Dichloroethane	62		5.742					ND	7
54 Isooctane	57		5.766					ND	
57 Tert-amyl methyl ether	73		5.766					ND	
58 n-Heptane	100		5.897					ND	
59 n-Butanol	56		6.063					ND	
60 Trichloroethene	130		6.217					ND	
61 Ethyl acrylate	55		6.229					ND	
64 Methyl methacrylate	41		6.406					ND	
62 Methylcyclohexane	83		6.406					ND	
63 1,2-Dichloropropane	63		6.418					ND	
66 1,4-Dioxane	88		6.466					ND	
65 Dibromomethane	93		6.501					ND	
67 Dichlorobromomethane	83		6.620					ND	
68 2-Nitropropane	41		6.786					ND	
69 2-Chloroethyl vinyl ether	63		6.810					ND	
70 cis-1,3-Dichloropropene	75		6.964					ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059					ND	
72 Toluene	91		7.260					ND	
73 trans-1,3-Dichloropropene	75		7.426					ND	
74 Ethyl methacrylate	69		7.426					ND	
75 1,1,2-Trichloroethane	97		7.592					ND	
76 Tetrachloroethene	164		7.699					ND	
78 2-Hexanone	43		7.747					ND	
77 1,3-Dichloropropane	76		7.747					ND	
79 n-Butyl acetate	43		7.829					ND	
80 Chlorodibromomethane	129		7.936					ND	
82 Ethylene Dibromide	107		8.055					ND	
81 Tetrahydrothiophene	60		8.072					ND	
83 1-Chlorohexane	91		8.411					ND	7
84 Chlorobenzene	112		8.470					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,1,2-Tetrachloroethane	131		8.541					ND	
86 Ethylbenzene	106		8.541					ND	
87 m-Xylene & p-Xylene	91		8.648					ND	
88 o-Xylene	106		9.004					ND	
89 Styrene	104		9.015					ND	
90 Bromoform	173		9.205					ND	
91 Isopropylbenzene	105		9.324					ND	
92 Cyclohexanone	55		9.430					ND	
94 1,1,2,2-Tetrachloroethane	83		9.596					ND	
97 trans-1,4-Dichloro-2-butene	53		9.632					ND	
95 Bromobenzene	156		9.644					ND	
96 1,2,3-Trichloropropane	110		9.656					ND	
93 1,4-Dichlorobutane	55		9.661					ND	
98 N-Propylbenzene	120		9.703					ND	
99 2-Chlorotoluene	126		9.810					ND	
101 1,3,5-Trimethylbenzene	105		9.857					ND	
102 4-Chlorotoluene	91		9.917					ND	
100 3-Ethyltoluene	105		10.104					ND	
104 tert-Butylbenzene	119		10.166					ND	
105 Pentachloroethane	167		10.213					ND	
106 1,2,4-Trimethylbenzene	105		10.213					ND	
107 sec-Butylbenzene	105		10.367					ND	
103 2-Ethyltoluene	105		10.389					ND	
108 1,3-Dichlorobenzene	146		10.498					ND	
109 4-Isopropyltoluene	119		10.510					ND	
110 1,4-Dichlorobenzene	146		10.593					ND	
111 1,2,3-Trimethylbenzene	105		10.604					ND	
112 Benzyl chloride	126		10.699					ND	
113 n-Butylbenzene	91		10.889					ND	
114 1,2-Dichlorobenzene	146		10.936					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672					ND	
116 1,3,5-Trichlorobenzene	180		11.850					ND	
117 1,2,4-Trichlorobenzene	180		12.454					ND	
118 Hexachlorobutadiene	225		12.573					ND	
119 Naphthalene	128		12.715					ND	
120 1,2,3-Trichlorobenzene	180		12.917					ND	
121 2-Methylnaphthalene	142		13.889					ND	
122 1-Methylnaphthalene	142		14.103					ND	
123 Epichlorohydrin	1		0.780					ND	
125 Propene oxide	1		0.780					ND	
124 Ethylene oxide	1		0.780					ND	
126 1,3-Diethylbenzene TIC	1		0.780					ND	
S 130 Total BTEX	1		0.780					ND	
S 131 Trihalomethanes, Total	1		0.780					ND	
S 127 1,2-Dichloroethene, Total	96		1.920					ND	
S 128 1,3-Dichloropropene, Total	75		7.540					ND	
S 129 Xylenes, Total	106		17.310					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

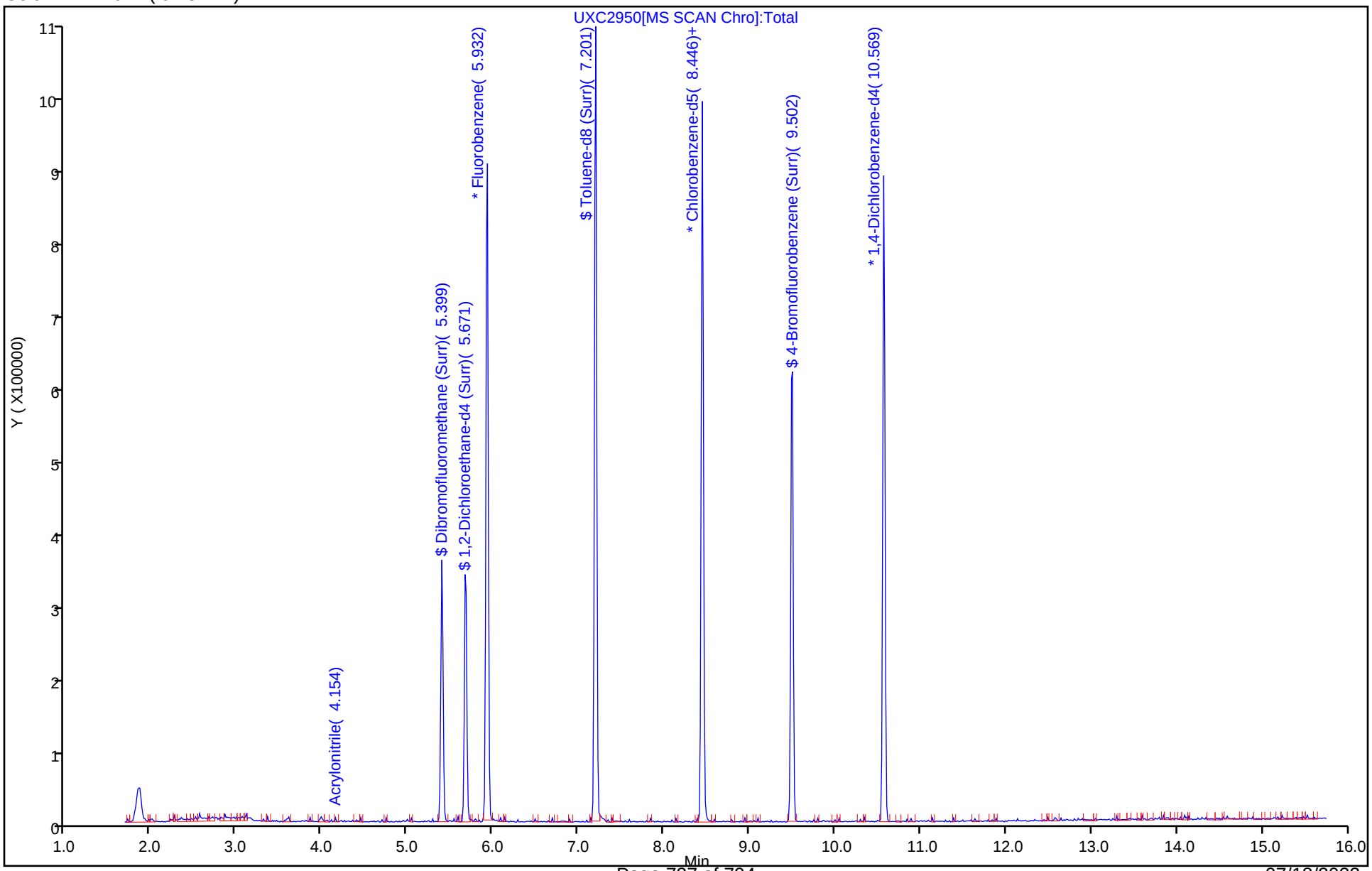
Report Date: 12-Jul-2022 08:17:18 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2950.D

Injection Date:	11-Jul-2022 15:54:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



07/18/2022

Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2950.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 11-Jul-2022 15:54:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-008
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jul-2022 17:19:33 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 08:17:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.0	105.14
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.8	99.12
$ 6 Toluene-d8 (Surr)	20.0	18.2	90.88
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.0	84.97

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534342/8

Matrix: Water | Lab File ID: UXC2965.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 13:41

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534342/8

Matrix: Water | Lab File ID: UXC2965.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 13:41

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	0.83	U	1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534342/8

Matrix: Water | Lab File ID: UXC2965.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 13:41

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		56-136
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		62-137
2037-26-5	Toluene-d8 (Surr)	92		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534342/8

Matrix: Water | Lab File ID: UXC2965.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 13:41

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2965.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 12-Jul-2022 13:41:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-008
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 12:00:09 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 14:15:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	822032	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	606659	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	95	289873	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.001	94	198928	20.0	20.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	238664	20.0	19.9	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	747470	20.0	18.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	94	243790	20.0	17.2	
160 Chlorobenzene-d5 (IS)	117		0.680					ND	
9 Dichlorodifluoromethane	85		2.031					ND	
10 Chloromethane	50		2.268					ND	
11 Vinyl chloride	62		2.386					ND	
12 Butadiene	54		2.422					ND	
13 Bromomethane	94		2.742					ND	7
14 Chloroethane	64		2.837					ND	
15 Dichlorofluoromethane	67		3.050					ND	
16 Trichlorofluoromethane	101		3.074					ND	
17 Ethyl ether	59		3.335					ND	
18 Acrolein	56		3.465					ND	
19 1,1-Dichloroethene	96		3.560					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.572					ND	
21 Acetone	43		3.584					ND	7
23 Methylal	45		3.652					ND	
22 Iodomethane	142		3.703					ND	
24 Carbon disulfide	76		3.774					ND	
25 Acetonitrile	41		3.833					ND	
27 Methyl acetate	43		3.845					ND	
26 3-Chloro-1-propene	76		3.869					ND	
28 Methylene Chloride	84		3.987					ND	7
29 2-Methyl-2-propanol	59	4.047	4.035	0.012	42	2115		1.87	
30 Acrylonitrile	53		4.177					ND	
31 Methyl tert-butyl ether	73		4.201					ND	
32 trans-1,2-Dichloroethene	96		4.213					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Chlorodifluoromethane TIC	51		4.221					ND	
34 Hexane	86		4.426					ND	
36 Vinyl acetate	43		4.545					ND	
35 1,1-Dichloroethane	63		4.568					ND	
37 Isopropyl ether	87		4.568					ND	
38 2-Chloro-1,3-butadiene	53		4.628					ND	
39 Tert-butyl ethyl ether	59		4.853					ND	
40 2-Butanone (MEK)	72		4.995					ND	
43 Ethyl acetate	43		5.007					ND	
41 cis-1,2-Dichloroethene	96		5.019					ND	
42 2,2-Dichloropropane	97		5.031					ND	
44 Propionitrile	54		5.055					ND	
45 Methacrylonitrile	41		5.173					ND	
46 Chlorobromomethane	128		5.209					ND	
47 Tetrahydrofuran	42		5.221					ND	
48 Chloroform	83		5.268					ND	
49 1,1,1-Trichloroethane	97		5.422					ND	
50 Cyclohexane	56		5.493					ND	
51 1,1-Dichloropropene	75		5.541					ND	
52 Carbon tetrachloride	117		5.553					ND	
53 Isobutyl alcohol	41		5.553					ND	
55 Benzene	78		5.707					ND	
56 1,2-Dichloroethane	62		5.730					ND	
57 Tert-amyl methyl ether	73		5.778					ND	
54 Isooctane	57		5.778					ND	
58 n-Heptane	100		5.885					ND	
59 n-Butanol	56		6.063					ND	
60 Trichloroethene	130		6.205					ND	
61 Ethyl acrylate	55		6.229					ND	
62 Methylcyclohexane	83		6.406					ND	
64 Methyl methacrylate	41		6.406					ND	
63 1,2-Dichloropropane	63		6.418					ND	
66 1,4-Dioxane	88		6.454					ND	
65 Dibromomethane	93		6.489					ND	
67 Dichlorobromomethane	83		6.620					ND	
68 2-Nitropropane	41		6.786					ND	
69 2-Chloroethyl vinyl ether	63		6.810					ND	
70 cis-1,3-Dichloropropene	75		6.964					ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059					ND	
72 Toluene	91		7.248					ND	
73 trans-1,3-Dichloropropene	75		7.426					ND	
74 Ethyl methacrylate	69		7.426					ND	
75 1,1,2-Trichloroethane	97		7.592					ND	
76 Tetrachloroethene	164		7.699					ND	
77 1,3-Dichloropropane	76		7.746					ND	
78 2-Hexanone	43		7.746					ND	
79 n-Butyl acetate	43		7.829					ND	
80 Chlorodibromomethane	129		7.936					ND	
82 Ethylene Dibromide	107		8.055					ND	
81 Tetrahydrothiophene	60		8.072					ND	
83 1-Chlorohexane	91		8.411					ND	7
84 Chlorobenzene	112		8.470					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethylbenzene	106		8.541					ND	
85 1,1,1,2-Tetrachloroethane	131		8.541					ND	
87 m-Xylene & p-Xylene	91		8.648					ND	
88 o-Xylene	106		9.003					ND	
89 Styrene	104		9.015					ND	
90 Bromoform	173		9.205					ND	
91 Isopropylbenzene	105		9.324					ND	
92 Cyclohexanone	55		9.430					ND	
94 1,1,2,2-Tetrachloroethane	83		9.596					ND	
97 trans-1,4-Dichloro-2-butene	53		9.632					ND	
95 Bromobenzene	156		9.644					ND	
93 1,4-Dichlorobutane	55		9.661					ND	
96 1,2,3-Trichloropropane	110		9.667					ND	
98 N-Propylbenzene	120		9.703					ND	
99 2-Chlorotoluene	126		9.810					ND	
101 1,3,5-Trimethylbenzene	105		9.857					ND	
102 4-Chlorotoluene	91		9.916					ND	
100 3-Ethyltoluene	105		10.104					ND	
104 tert-Butylbenzene	119		10.166					ND	
106 1,2,4-Trimethylbenzene	105		10.213					ND	
105 Pentachloroethane	167		10.213					ND	
107 sec-Butylbenzene	105		10.367					ND	
103 2-Ethyltoluene	105		10.389					ND	
109 4-Isopropyltoluene	119		10.498					ND	
108 1,3-Dichlorobenzene	146		10.509					ND	
110 1,4-Dichlorobenzene	146		10.592					ND	
111 1,2,3-Trimethylbenzene	105		10.604					ND	
112 Benzyl chloride	126		10.699					ND	
113 n-Butylbenzene	91		10.889					ND	
114 1,2-Dichlorobenzene	146		10.936					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672					ND	
116 1,3,5-Trichlorobenzene	180		11.850					ND	
117 1,2,4-Trichlorobenzene	180		12.454					ND	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	81	1636		0.4921	
119 Naphthalene	128		12.715					ND	
120 1,2,3-Trichlorobenzene	180		12.917					ND	
121 2-Methylnaphthalene	142	13.889	13.889	0.000	87	2401		0.1642	
122 1-Methylnaphthalene	142	14.103	14.103	0.000	93	2062		0.1518	
123 Epichlorohydrin	1		0.780					ND	
125 Propene oxide	1		0.780					ND	
124 Ethylene oxide	1		0.780					ND	
126 1,3-Diethylbenzene TIC	1		0.780					ND	
S 130 Total BTEX	1		0.780					ND	
S 131 Trihalomethanes, Total	1		0.780					ND	
S 127 1,2-Dichloroethene, Total	96		1.920					ND	
S 128 1,3-Dichloropropene, Total	75		7.540					ND	
S 129 Xylenes, Total	106		17.310					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

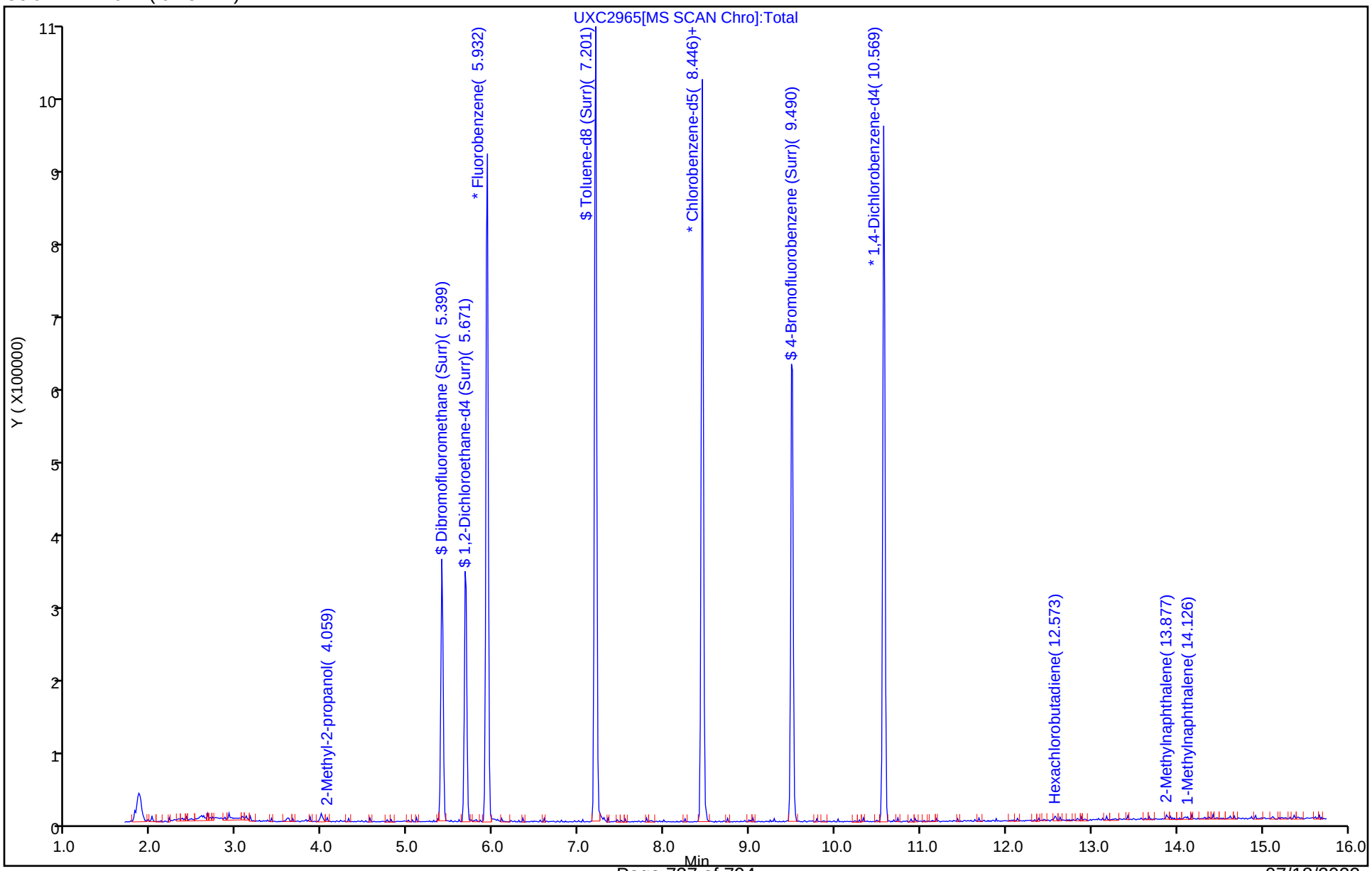
Report Date: 12-Jul-2022 14:15:59 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2965.D

Injection Date:	12-Jul-2022 13:41:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2965.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 12-Jul-2022 13:41:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-008
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 12:00:09 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 14:15:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.9	104.29
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.9	99.74
$ 6 Toluene-d8 (Surr)	20.0	18.4	92.16
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.2	86.06

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534562/10

Matrix: Water | Lab File ID: UXC2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.4	U	10	5.4
71-43-2	Benzene	0.42	U	1.0	0.42
108-86-1	Bromobenzene	0.50	U	1.0	0.50
74-97-5	Bromochloromethane	0.54	U	1.0	0.54
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.76	U	1.0	0.76
74-83-9	Bromomethane	0.42	U	1.0	0.42
78-93-3	2-Butanone	1.2	U	10	1.2
75-15-0	Carbon disulfide	0.59	U	1.0	0.59
56-23-5	Carbon tetrachloride	0.26	U	1.0	0.26
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.83	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	1.5	U	10	1.5
67-66-3	Chloroform	0.47	U	1.0	0.47
74-87-3	Chloromethane	0.63	U	1.0	0.63
95-49-8	2-Chlorotoluene	0.57	U	1.0	0.57
106-43-4	4-Chlorotoluene	0.43	U	1.0	0.43
156-59-2	cis-1,2-Dichloroethene	0.46	U	1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	0.61	U	1.0	0.61
124-48-1	Dibromochloromethane	0.39	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	2.0	0.91
106-93-4	1,2-Dibromoethane	0.41	U	1.0	0.41
74-95-3	Dibromomethane	0.40	U	1.0	0.40
95-50-1	1,2-Dichlorobenzene	0.48	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	0.45	U	1.0	0.45
106-46-7	1,4-Dichlorobenzene	0.41	U	1.0	0.41
75-71-8	Dichlorodifluoromethane	0.35	U	1.0	0.35
75-34-3	1,1-Dichloroethane	0.47	U	1.0	0.47
107-06-2	1,2-Dichloroethane	0.21	U	1.0	0.21
75-35-4	1,1-Dichloroethene	0.49	U	1.0	0.49
78-87-5	1,2-Dichloropropane	0.47	U	1.0	0.47
142-28-9	1,3-Dichloropropane	0.21	U	1.0	0.21
594-20-7	2,2-Dichloropropane	0.78	U	1.0	0.78
563-58-6	1,1-Dichloropropene	0.36	U	1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534562/10

Matrix: Water | Lab File ID: UXC2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-20-3	Diisopropyl ether	0.17	U	10	0.17
100-41-4	Ethylbenzene	0.42	U	1.0	0.42
637-92-3	Ethyl-t-butyl ether (ETBE)	0.40	U	5.0	0.40
87-68-3	Hexachlorobutadiene	1.19		1.0	0.83
591-78-6	2-Hexanone	1.1	U	10	1.1
98-82-8	Isopropylbenzene	0.49	U	1.0	0.49
75-09-2	Methylene Chloride	2.6	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	0.99	U	10	0.99
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
179601-23-1	m-Xylene & p-Xylene	0.42	U	2.0	0.42
91-20-3	Naphthalene	0.80	U	1.0	0.80
104-51-8	n-Butylbenzene	0.60	U	1.0	0.60
103-65-1	n-Propylbenzene	0.57	U	1.0	0.57
95-47-6	o-Xylene	0.42	U	1.0	0.42
99-87-6	p-Isopropyltoluene	0.56	U	1.0	0.56
135-98-8	sec-Butylbenzene	0.53	U	1.0	0.53
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl-methyl ether (TAME)	0.43	U	5.0	0.43
75-65-0	tert-Butyl alcohol	7.2	U	40	7.2
98-06-6	tert-Butylbenzene	0.48	U	1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.60
127-18-4	Tetrachloroethene	0.44	U	1.0	0.44
108-88-3	Toluene	0.44	U	1.0	0.44
156-60-5	trans-1,2-Dichloroethene	0.51	U	1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	0.67	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	0.54	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	0.77	U	1.0	0.77
71-55-6	1,1,1-Trichloroethane	0.48	U	1.0	0.48
79-01-6	Trichloroethene	0.44	U	1.0	0.44
75-69-4	Trichlorofluoromethane	0.45	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	0.52	U	1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534562/10

Matrix: Water | Lab File ID: UXC2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.31	U	5.0	0.31
95-63-6	1,2,4-Trimethylbenzene	0.52	U	1.0	0.52
108-05-4	Vinyl acetate	0.61	U	2.0	0.61
75-01-4	Vinyl chloride	0.45	U	1.0	0.45
1330-20-7	Xylenes, Total	0.42	U	2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		56-136
1868-53-7	Dibromofluoromethane (Surr)	109		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		62-137
2037-26-5	Toluene-d8 (Surr)	94		78-122

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

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: MB 240-534562/10

Matrix: Water | Lab File ID: UXC2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

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

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2993.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 13-Jul-2022 15:49:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-010
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 09:05:41 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: MAW1 Date: 15-Jul-2022 09:05:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	100	812152	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	600978	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	94	283277	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	93	206128	20.0	21.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	238483	20.0	20.2	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	755559	20.0	18.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	95	243648	20.0	17.4	
160 Chlorobenzene-d5 (IS)	117		0.680					ND	
9 Dichlorodifluoromethane	85		2.043					ND	
10 Chloromethane	50		2.268					ND	
11 Vinyl chloride	62		2.387					ND	
12 Butadiene	54		2.422					ND	
13 Bromomethane	94		2.754					ND	
14 Chloroethane	64		2.849					ND	
15 Dichlorofluoromethane	67		3.063					ND	
16 Trichlorofluoromethane	101		3.086					ND	
17 Ethyl ether	59		3.335					ND	
18 Acrolein	56		3.466					ND	
19 1,1-Dichloroethene	96		3.561					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.584					ND	
21 Acetone	43		3.584					ND	7
23 Methylal	45		3.652					ND	
22 Iodomethane	142		3.715					ND	
24 Carbon disulfide	76	3.774	3.774	0.000	59	2670		0.1123	
25 Acetonitrile	41		3.833					ND	
27 Methyl acetate	43		3.857					ND	
26 3-Chloro-1-propene	76		3.881					ND	
28 Methylene Chloride	84	3.987	3.987	0.000	85	6598		0.1538	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	58	1833		1.64	
30 Acrylonitrile	53	4.177	4.177	0.000	69	1073		0.2602	
31 Methyl tert-butyl ether	73		4.201					ND	
32 trans-1,2-Dichloroethene	96		4.213					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Chlorodifluoromethane TIC	51		4.221					ND	
34 Hexane	86		4.426					ND	
36 Vinyl acetate	43		4.545					ND	
37 Isopropyl ether	87		4.568					ND	
35 1,1-Dichloroethane	63		4.569					ND	
38 2-Chloro-1,3-butadiene	53		4.628					ND	
39 Tert-butyl ethyl ether	59		4.853					ND	
40 2-Butanone (MEK)	72		4.995					ND	
43 Ethyl acetate	43		5.007					ND	
41 cis-1,2-Dichloroethene	96		5.019					ND	
42 2,2-Dichloropropane	97		5.031					ND	
44 Propionitrile	54		5.055					ND	
45 Methacrylonitrile	41		5.173					ND	
46 Chlorobromomethane	128		5.209					ND	
47 Tetrahydrofuran	42		5.221					ND	
48 Chloroform	83		5.268					ND	
49 1,1,1-Trichloroethane	97		5.434					ND	
50 Cyclohexane	56		5.494					ND	
51 1,1-Dichloropropene	75		5.541					ND	
52 Carbon tetrachloride	117		5.553					ND	
53 Isobutyl alcohol	41		5.553					ND	
55 Benzene	78		5.707					ND	
56 1,2-Dichloroethane	62		5.731					ND	7
57 Tert-amyl methyl ether	73		5.766					ND	
54 Isooctane	57		5.766					ND	
58 n-Heptane	100		5.897					ND	
59 n-Butanol	56		6.063					ND	
60 Trichloroethene	130		6.205					ND	
61 Ethyl acrylate	55		6.229					ND	
64 Methyl methacrylate	41		6.407					ND	
62 Methylcyclohexane	83		6.407					ND	
63 1,2-Dichloropropane	63		6.418					ND	
66 1,4-Dioxane	88		6.466					ND	
65 Dibromomethane	93		6.490					ND	
67 Dichlorobromomethane	83		6.620					ND	
68 2-Nitropropane	41		6.786					ND	
69 2-Chloroethyl vinyl ether	63		6.810					ND	
70 cis-1,3-Dichloropropene	75		6.964					ND	
71 4-Methyl-2-pentanone (MIBK)	43		7.059					ND	
72 Toluene	91		7.260					ND	
73 trans-1,3-Dichloropropene	75		7.426					ND	
74 Ethyl methacrylate	69		7.426					ND	
75 1,1,2-Trichloroethane	97		7.592					ND	
76 Tetrachloroethene	164		7.699					ND	
77 1,3-Dichloropropane	76		7.747					ND	
78 2-Hexanone	43		7.747					ND	
79 n-Butyl acetate	43		7.830					ND	
80 Chlorodibromomethane	129		7.936					ND	
82 Ethylene Dibromide	107		8.055					ND	
81 Tetrahydrothiophene	60		8.072					ND	
83 1-Chlorohexane	91		8.411					ND	7
84 Chlorobenzene	112		8.470					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethylbenzene	106		8.541					ND	
85 1,1,1,2-Tetrachloroethane	131		8.541					ND	
87 m-Xylene & p-Xylene	91		8.648					ND	
88 o-Xylene	106		9.004					ND	
89 Styrene	104		9.016					ND	
90 Bromoform	173		9.205					ND	
91 Isopropylbenzene	105		9.324					ND	
92 Cyclohexanone	55		9.430					ND	
94 1,1,2,2-Tetrachloroethane	83		9.597					ND	
97 trans-1,4-Dichloro-2-butene	53		9.632					ND	
95 Bromobenzene	156		9.644					ND	
96 1,2,3-Trichloropropane	110		9.656					ND	
93 1,4-Dichlorobutane	55		9.661					ND	
98 N-Propylbenzene	120		9.703					ND	
99 2-Chlorotoluene	126		9.810					ND	
101 1,3,5-Trimethylbenzene	105		9.857					ND	
102 4-Chlorotoluene	91		9.917					ND	
100 3-Ethyltoluene	105		10.104					ND	
104 tert-Butylbenzene	119		10.166					ND	
105 Pentachloroethane	167		10.213					ND	
106 1,2,4-Trimethylbenzene	105		10.213					ND	
107 sec-Butylbenzene	105		10.367					ND	
103 2-Ethyltoluene	105		10.389					ND	
109 4-Isopropyltoluene	119		10.498					ND	
108 1,3-Dichlorobenzene	146		10.498					ND	
110 1,4-Dichlorobenzene	146		10.593					ND	
111 1,2,3-Trimethylbenzene	105		10.604					ND	
112 Benzyl chloride	126		10.699					ND	
113 n-Butylbenzene	91		10.889					ND	
114 1,2-Dichlorobenzene	146		10.937					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.672					ND	
116 1,3,5-Trichlorobenzene	180		11.850					ND	
117 1,2,4-Trichlorobenzene	180		12.454					ND	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	89	3850		1.19	
119 Naphthalene	128	12.715	12.715	0.000	90	3277		0.1272	
120 1,2,3-Trichlorobenzene	180		12.917					ND	
121 2-Methylnaphthalene	142	13.877	13.889	-0.012	90	2069		0.1448	
122 1-Methylnaphthalene	142		14.103					ND	
123 Epichlorohydrin	1		0.780					ND	
125 Propene oxide	1		0.780					ND	
124 Ethylene oxide	1		0.780					ND	
126 1,3-Diethylbenzene TIC	1		0.780					ND	
S 130 Total BTEX	1		0.780					ND	
S 131 Trihalomethanes, Total	1		0.780					ND	
S 127 1,2-Dichloroethene, Total	96		1.920					ND	
S 128 1,3-Dichloropropene, Total	75		7.540					ND	
S 129 Xylenes, Total	106		17.310					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

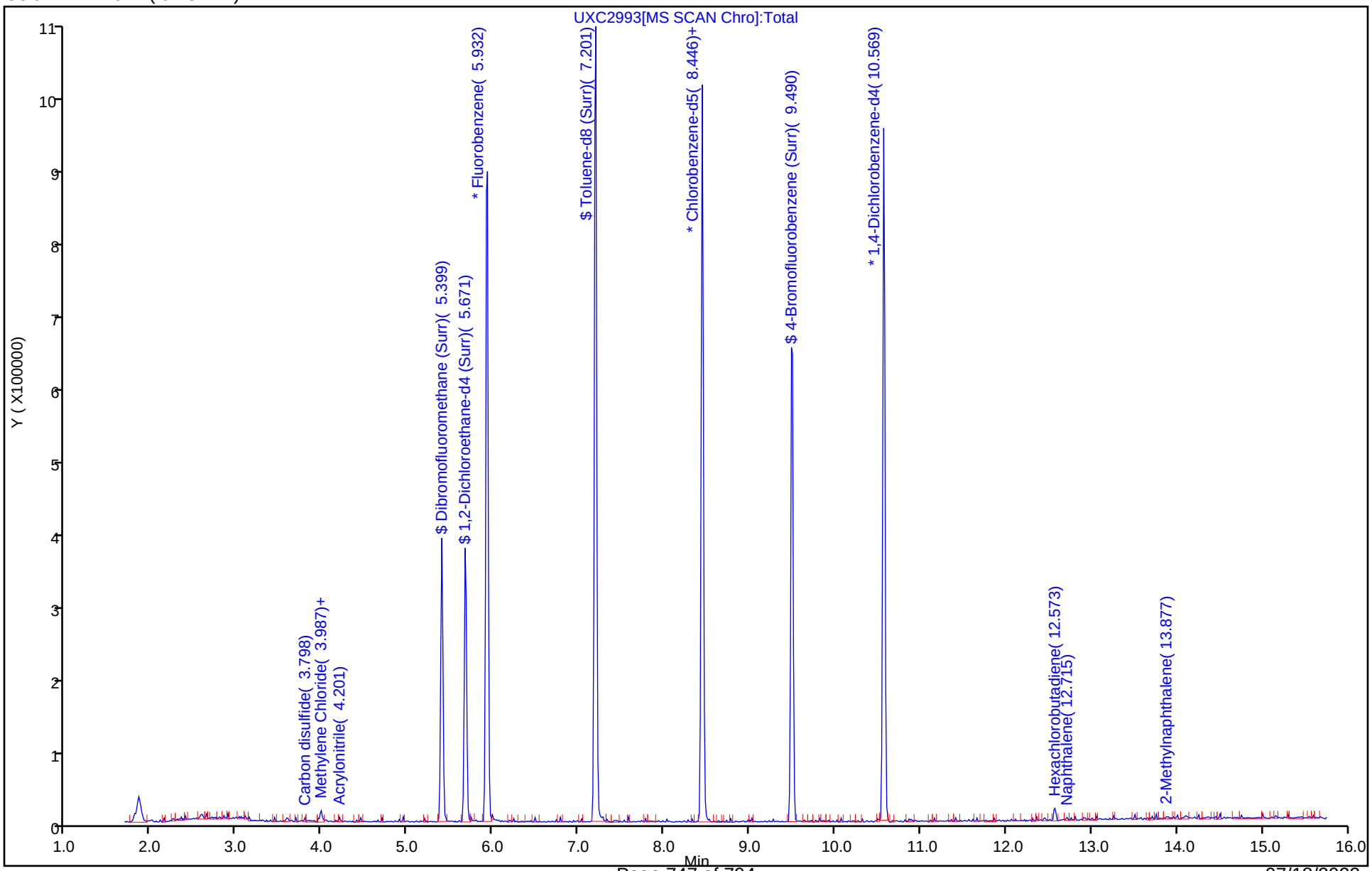
Report Date: 15-Jul-2022 09:05:42 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2993.D

Injection Date:	13-Jul-2022 15:49:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	MB			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2993.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 13-Jul-2022 15:49:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-010
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Jul-2022 09:05:41 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1618

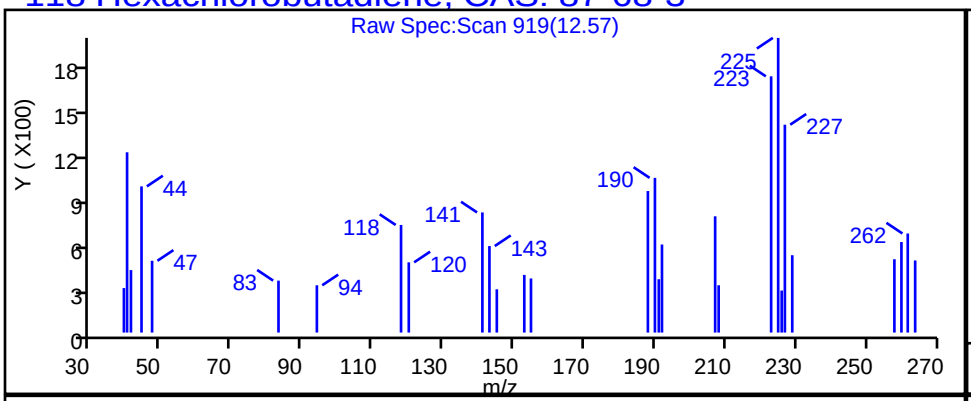
First Level Reviewer: MAW1 Date: 15-Jul-2022 09:05:41

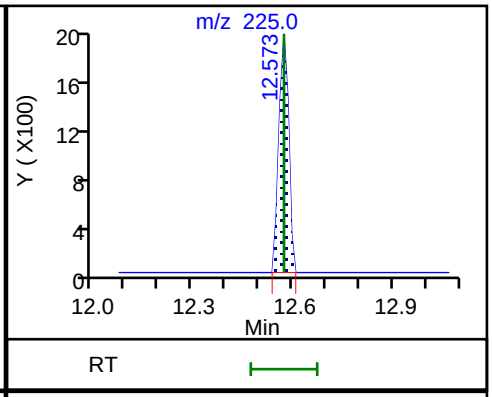
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.9	109.38
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.2	100.88
$ 6 Toluene-d8 (Surr)	20.0	18.8	94.04
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.4	86.83

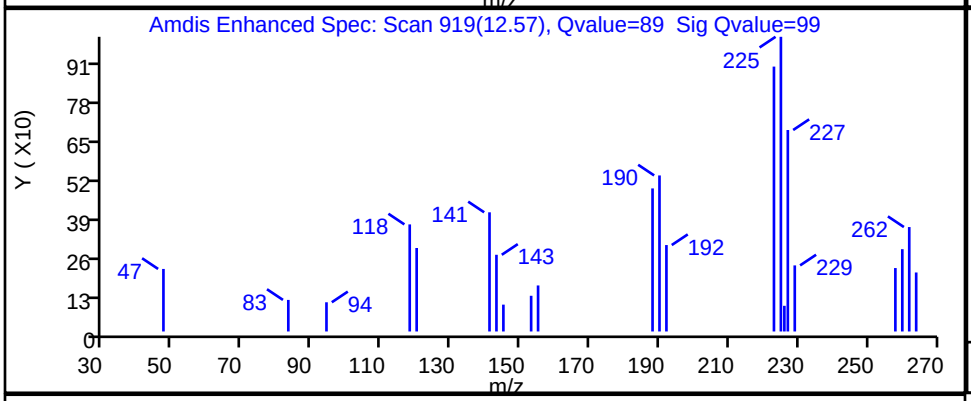
Eurofins Canton

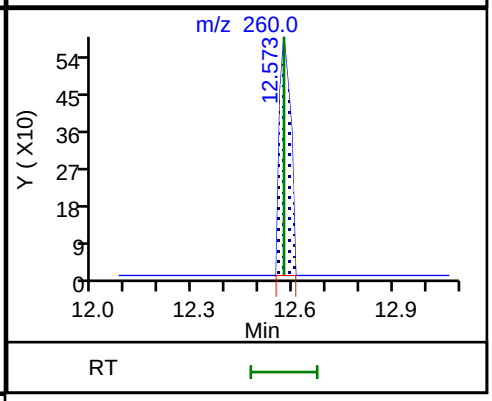
Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2993.D
Injection Date: 13-Jul-2022 15:49:30 Instrument ID: A3UX15
Lims ID: MB
Client ID:
Operator ID: 001904 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

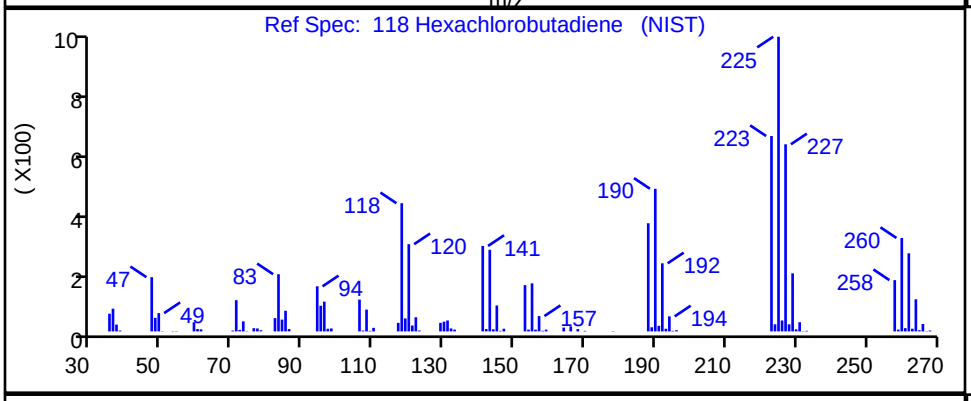
118 Hexachlorobutadiene, CAS: 87-68-3

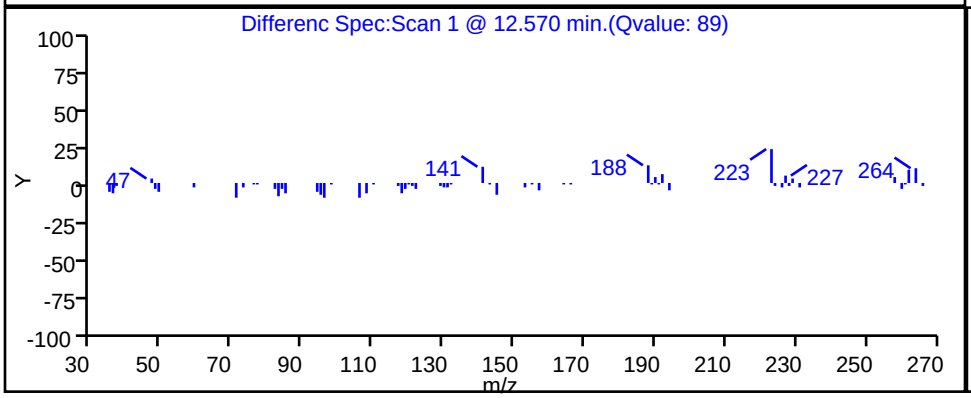


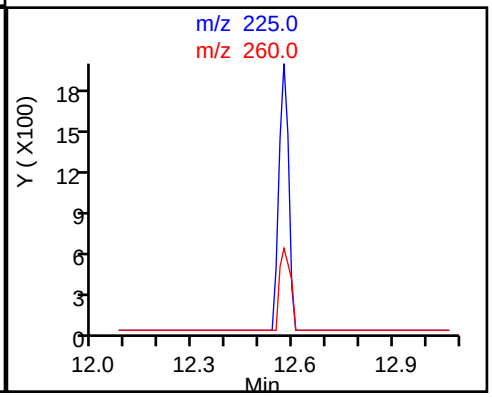












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534172/5

Matrix: Water | Lab File ID: UXC2947.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 14:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	42.1		10	5.4
71-43-2	Benzene	20.6		1.0	0.42
108-86-1	Bromobenzene	22.1		1.0	0.50
74-97-5	Bromochloromethane	20.9		1.0	0.54
75-27-4	Bromodichloromethane	20.7		1.0	0.17
75-25-2	Bromoform	23.4		1.0	0.76
74-83-9	Bromomethane	17.2		1.0	0.42
78-93-3	2-Butanone	41.2		10	1.2
75-15-0	Carbon disulfide	21.6		1.0	0.59
56-23-5	Carbon tetrachloride	20.9		1.0	0.26
108-90-7	Chlorobenzene	21.3		1.0	0.38
75-00-3	Chloroethane	17.7		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	19.9		10	1.5
67-66-3	Chloroform	20.2		1.0	0.47
74-87-3	Chloromethane	17.4		1.0	0.63
95-49-8	2-Chlorotoluene	20.7		1.0	0.57
106-43-4	4-Chlorotoluene	20.1		1.0	0.43
156-59-2	cis-1,2-Dichloroethene	19.8		1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	19.7		1.0	0.61
124-48-1	Dibromochloromethane	22.6		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		2.0	0.91
106-93-4	1,2-Dibromoethane	20.7		1.0	0.41
74-95-3	Dibromomethane	20.8		1.0	0.40
95-50-1	1,2-Dichlorobenzene	21.9		1.0	0.48
541-73-1	1,3-Dichlorobenzene	21.6		1.0	0.45
106-46-7	1,4-Dichlorobenzene	21.6		1.0	0.41
75-71-8	Dichlorodifluoromethane	20.0		1.0	0.35
75-34-3	1,1-Dichloroethane	19.1		1.0	0.47
107-06-2	1,2-Dichloroethane	19.3		1.0	0.21
75-35-4	1,1-Dichloroethene	21.1		1.0	0.49
78-87-5	1,2-Dichloropropane	20.2		1.0	0.47
142-28-9	1,3-Dichloropropane	20.6		1.0	0.21
594-20-7	2,2-Dichloropropane	20.6		1.0	0.78
563-58-6	1,1-Dichloropropene	19.8		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534172/5

Matrix: Water | Lab File ID: UXC2947.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 14:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	20.5		1.0	0.42
87-68-3	Hexachlorobutadiene	23.3		1.0	0.83
591-78-6	2-Hexanone	37.6		10	1.1
98-82-8	Isopropylbenzene	20.9		1.0	0.49
75-09-2	Methylene Chloride	20.0		5.0	2.6
108-10-1	4-Methyl-2-pentanone	37.2		10	0.99
1634-04-4	Methyl tert-butyl ether	18.9		1.0	0.47
179601-23-1	m-Xylene & p-Xylene	20.5		2.0	0.42
91-20-3	Naphthalene	18.7		1.0	0.80
104-51-8	n-Butylbenzene	19.8		1.0	0.60
103-65-1	n-Propylbenzene	21.3		1.0	0.57
95-47-6	o-Xylene	20.8		1.0	0.42
99-87-6	p-Isopropyltoluene	20.4		1.0	0.56
135-98-8	sec-Butylbenzene	20.2		1.0	0.53
100-42-5	Styrene	20.7		1.0	0.45
75-65-0	tert-Butyl alcohol	204		40	7.2
98-06-6	tert-Butylbenzene	20.4		1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	22.2		1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	21.0		1.0	0.60
127-18-4	Tetrachloroethene	23.2		1.0	0.44
108-88-3	Toluene	20.3		1.0	0.44
156-60-5	trans-1,2-Dichloroethene	19.7		1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	19.7		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	22.3		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	21.1		1.0	0.77
71-55-6	1,1,1-Trichloroethane	19.9		1.0	0.48
79-01-6	Trichloroethene	21.0		1.0	0.44
75-69-4	Trichlorofluoromethane	19.6		1.0	0.45
96-18-4	1,2,3-Trichloropropane	21.1		1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	23.9		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	20.7		1.0	0.52
108-05-4	Vinyl acetate	23.1		2.0	0.61
75-01-4	Vinyl chloride	18.8		1.0	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534172/5

Matrix: Water | Lab File ID: UXC2947.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2022 14:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	41.3		2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		56-136
1868-53-7	Dibromofluoromethane (Surr)	102		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		62-137
2037-26-5	Toluene-d8 (Surr)	99		78-122

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2947.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Jul-2022 14:45:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-005
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jul-2022 13:01:30 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: MAW1 Date: 11-Jul-2022 15:14:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	98	918595	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	667529	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	93	331255	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.399	0.000	94	217594	20.0	20.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.683	-0.012	100	258600	20.0	19.3	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	879015	20.0	19.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	96	304193	20.0	19.5	
9 Dichlorodifluoromethane	85	2.043	2.054	-0.011	99	187424	20.0	20.0	
10 Chloromethane	50	2.268	2.280	-0.012	99	209816	20.0	17.4	
11 Vinyl chloride	62	2.387	2.398	-0.011	98	233181	20.0	18.8	
12 Butadiene	54	2.422	2.434	-0.012	98	214995	20.0	17.2	
13 Bromomethane	94	2.754	2.754	0.000	91	165242	20.0	17.2	
14 Chloroethane	64	2.849	2.861	-0.012	100	158861	20.0	17.7	
15 Dichlorofluoromethane	67	3.063	3.062	0.001	98	360886	20.0	17.7	
16 Trichlorofluoromethane	101	3.086	3.086	0.000	98	336524	20.0	19.6	
17 Ethyl ether	59	3.335	3.335	0.000	89	179561	20.0	19.6	
18 Acrolein	56	3.466	3.477	-0.011	98	56219	100.0	49.4	
19 1,1-Dichloroethene	96	3.561	3.572	-0.011	98	194628	20.0	21.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.584	3.584	0.000	87	150567	20.0	23.9	
21 Acetone	43	3.584	3.596	-0.012	100	145837	40.0	42.1	
22 Iodomethane	142	3.715	3.715	0.000	98	329444	20.0	22.2	
24 Carbon disulfide	76	3.774	3.786	-0.012	99	580977	20.0	21.6	
27 Methyl acetate	43	3.857	3.857	0.000	97	388381	40.0	34.5	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	90	155451	20.0	21.0	
28 Methylene Chloride	84	3.987	3.987	0.000	89	215223	20.0	20.0	
29 2-Methyl-2-propanol	59	4.047	4.047	0.000	98	257271	200.0	203.6	
30 Acrylonitrile	53	4.177	4.177	0.000	99	1004489	200.0	215.4	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	94	587038	20.0	18.9	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	97	239206	20.0	19.7	
34 Hexane	86	4.426	4.438	-0.012	92	57010	20.0	20.4	
36 Vinyl acetate	43	4.545	4.545	0.000	97	395903	20.0	23.1	
35 1,1-Dichloroethane	63	4.569	4.580	-0.011	96	379433	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
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	79793	40.0	41.2	
41 cis-1,2-Dichloroethene	96	5.019	5.031	-0.012	80	243572	20.0	19.8	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	88	54094	20.0	20.6	
46 Chlorobromomethane	128	5.209	5.221	-0.012	91	124468	20.0	20.9	
47 Tetrahydrofuran	42	5.221	5.221	0.000	87	185808	40.0	39.4	
48 Chloroform	83	5.280	5.280	0.000	93	389813	20.0	20.2	
49 1,1,1-Trichloroethane	97	5.434	5.434	0.000	98	330223	20.0	19.9	
50 Cyclohexane	56	5.494	5.493	0.001	87	325765	20.0	19.3	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	94	325280	20.0	19.8	
52 Carbon tetrachloride	117	5.553	5.553	0.000	89	313535	20.0	20.9	
53 Isobutyl alcohol	41	5.553	5.553	0.000	93	282817	500.0	558.0	
55 Benzene	78	5.707	5.707	0.000	96	939479	20.0	20.6	
56 1,2-Dichloroethane	62	5.743	5.742	0.001	97	296783	20.0	19.3	
58 n-Heptane	100	5.897	5.897	0.000	88	51623	20.0	20.3	
60 Trichloroethene	130	6.217	6.217	0.000	96	269555	20.0	21.0	
62 Methylcyclohexane	83	6.407	6.406	0.001	90	344784	20.0	21.0	
63 1,2-Dichloropropane	63	6.418	6.418	0.000	94	215621	20.0	20.2	
66 1,4-Dioxane	88	6.466	6.466	0.000	97	52378	400.0	484.1	
65 Dibromomethane	93	6.502	6.501	0.001	92	140688	20.0	20.8	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	293064	20.0	20.7	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	159410	20.0	19.9	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	96	340836	20.0	19.7	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.059	0.000	95	532869	40.0	37.2	
72 Toluene	91	7.260	7.260	0.000	98	1006939	20.0	20.3	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	96	321526	20.0	19.7	
74 Ethyl methacrylate	69	7.426	7.426	0.000	87	300595	20.0	19.2	
75 1,1,2-Trichloroethane	97	7.592	7.592	0.000	89	207613	20.0	21.7	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	224371	20.0	23.2	
78 2-Hexanone	43	7.747	7.747	0.001	93	404712	40.0	37.6	
77 1,3-Dichloropropane	76	7.747	7.747	0.001	95	347329	20.0	20.6	
80 Chlorodibromomethane	129	7.936	7.936	0.000	89	237506	20.0	22.6	
82 Ethylene Dibromide	107	8.055	8.055	0.000	99	214645	20.0	20.7	
84 Chlorobenzene	112	8.470	8.470	0.000	96	647516	20.0	21.3	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	220232	20.0	22.2	
86 Ethylbenzene	106	8.541	8.541	0.000	98	344697	20.0	20.5	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	810856	20.0	20.5	
88 o-Xylene	106	9.004	9.004	0.000	95	395730	20.0	20.8	
89 Styrene	104	9.016	9.015	0.001	94	670755	20.0	20.7	
90 Bromoform	173	9.205	9.205	0.000	99	176239	20.0	23.4	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	975396	20.0	20.9	
94 1,1,2,2-Tetrachloroethane	83	9.597	9.596	0.001	95	274084	20.0	21.0	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	84	78604	20.0	16.6	
95 Bromobenzene	156	9.644	9.644	0.000	92	274480	20.0	22.1	
96 1,2,3-Trichloropropane	110	9.656	9.656	0.000	80	97216	20.0	21.1	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	288121	20.0	21.3	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	236324	20.0	20.7	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	95	750998	20.0	20.4	
102 4-Chlorotoluene	91	9.917	9.917	0.000	97	705093	20.0	20.1	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	653476	20.0	20.4	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	758587	20.0	20.7	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	851179	20.0	20.2	
108 1,3-Dichlorobenzene	146	10.498	10.498	0.000	75	457112	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
109 4-Isopropyltoluene	119	10.498	10.510	-0.012	97	734311	20.0	20.4	
110 1,4-Dichlorobenzene	146	10.593	10.593	0.000	96	467521	20.0	21.6	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	566958	20.0	19.8	
114 1,2-Dichlorobenzene	146	10.937	10.936	0.001	99	412357	20.0	21.9	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.672	0.000	87	63975	20.0	19.7	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	93	179110	20.0	21.1	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	96	88635	20.0	23.3	
119 Naphthalene	128	12.715	12.715	0.000	96	563948	20.0	18.7	
120 1,2,3-Trichlorobenzene	180	12.917	12.917	0.000	96	164557	20.0	22.3	
S 130 Total BTEX	1				0		100.0	102.8	
S 131 Trihalomethanes, Total	1				0		80.0	86.9	
S 129 Xylenes, Total	106				0		40.0	41.4	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00451	Amount Added:	16.00	Units: uL	
vmfasaw_00425	Amount Added:	16.00	Units: uL	
vmfasgw_00461	Amount Added:	16.00	Units: uL	
vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

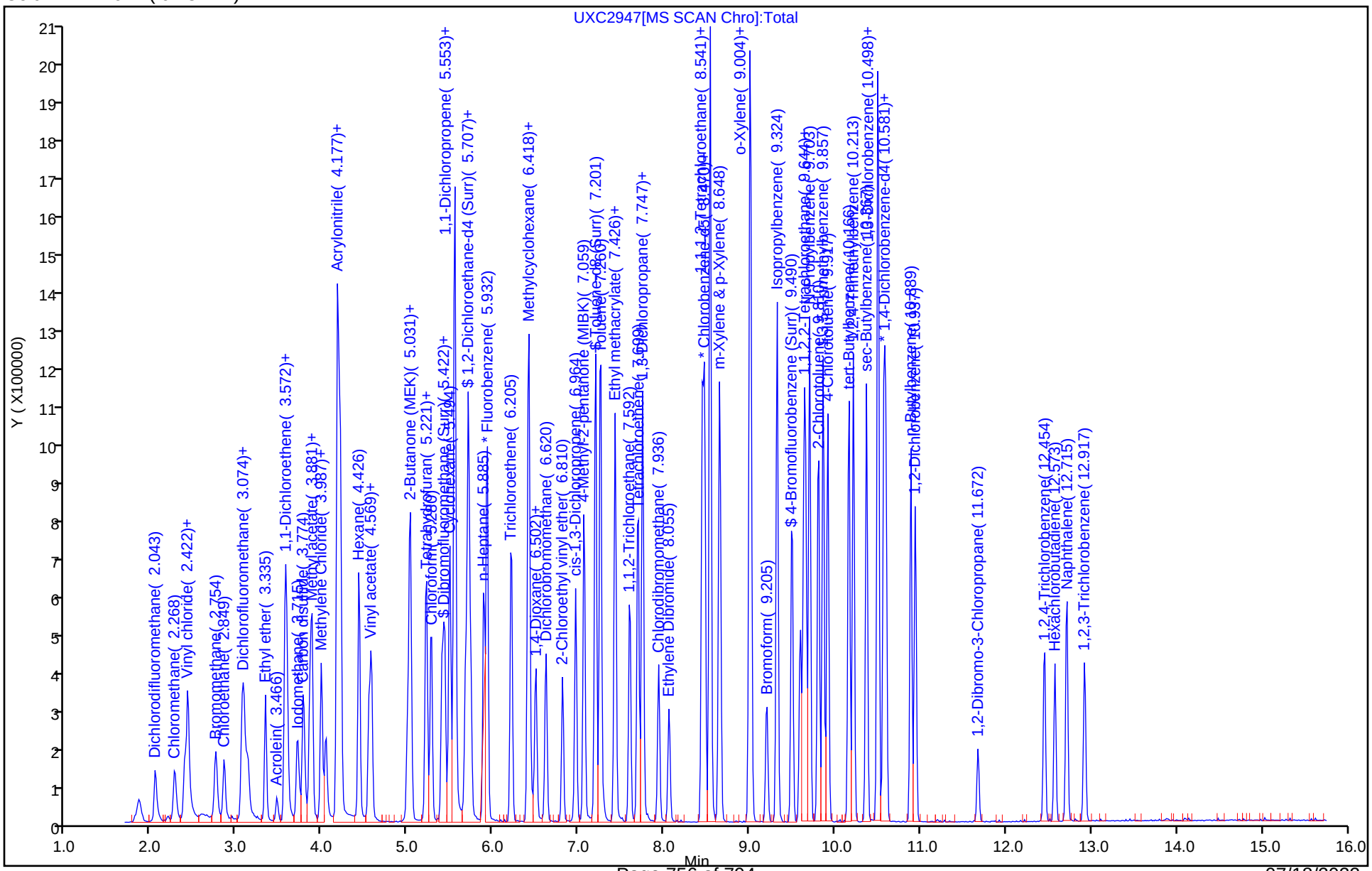
Report Date: 11-Jul-2022 15:14:48 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2947.D

Injection Date:	11-Jul-2022 14:45:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\UXC2947.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Jul-2022 14:45:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120232-005
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220711-120232.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Jul-2022 13:01:30 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: MAW1 Date: 11-Jul-2022 15:14:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.4	102.08
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.3	96.71
$ 6 Toluene-d8 (Surr)	20.0	19.7	98.50
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.5	97.59

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534342/5

Matrix: Water | Lab File ID: UXC2962.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 12:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	46.5		10	5.4
71-43-2	Benzene	20.8		1.0	0.42
108-86-1	Bromobenzene	21.5		1.0	0.50
74-97-5	Bromochloromethane	20.5		1.0	0.54
75-27-4	Bromodichloromethane	20.6		1.0	0.17
75-25-2	Bromoform	23.2		1.0	0.76
74-83-9	Bromomethane	17.0		1.0	0.42
78-93-3	2-Butanone	43.1		10	1.2
75-15-0	Carbon disulfide	22.0		1.0	0.59
56-23-5	Carbon tetrachloride	21.7		1.0	0.26
108-90-7	Chlorobenzene	21.1		1.0	0.38
75-00-3	Chloroethane	17.5		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	19.0		10	1.5
67-66-3	Chloroform	20.4		1.0	0.47
74-87-3	Chloromethane	17.5		1.0	0.63
95-49-8	2-Chlorotoluene	20.4		1.0	0.57
106-43-4	4-Chlorotoluene	19.9		1.0	0.43
156-59-2	cis-1,2-Dichloroethene	20.6		1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	19.7		1.0	0.61
124-48-1	Dibromochloromethane	22.2		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	20.9		2.0	0.91
106-93-4	1,2-Dibromoethane	20.9		1.0	0.41
74-95-3	Dibromomethane	20.9		1.0	0.40
95-50-1	1,2-Dichlorobenzene	22.0		1.0	0.48
541-73-1	1,3-Dichlorobenzene	21.8		1.0	0.45
106-46-7	1,4-Dichlorobenzene	21.1		1.0	0.41
75-71-8	Dichlorodifluoromethane	20.8		1.0	0.35
75-34-3	1,1-Dichloroethane	19.4		1.0	0.47
107-06-2	1,2-Dichloroethane	19.6		1.0	0.21
75-35-4	1,1-Dichloroethene	20.8		1.0	0.49
78-87-5	1,2-Dichloropropane	20.4		1.0	0.47
142-28-9	1,3-Dichloropropane	20.5		1.0	0.21
594-20-7	2,2-Dichloropropane	20.8		1.0	0.78
563-58-6	1,1-Dichloropropene	20.5		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534342/5

Matrix: Water | Lab File ID: UXC2962.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 12:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	20.8		1.0	0.42
87-68-3	Hexachlorobutadiene	24.5		1.0	0.83
591-78-6	2-Hexanone	38.2		10	1.1
98-82-8	Isopropylbenzene	20.6		1.0	0.49
75-09-2	Methylene Chloride	20.2		5.0	2.6
108-10-1	4-Methyl-2-pentanone	38.5		10	0.99
1634-04-4	Methyl tert-butyl ether	19.0		1.0	0.47
179601-23-1	m-Xylene & p-Xylene	20.6		2.0	0.42
91-20-3	Naphthalene	19.3		1.0	0.80
104-51-8	n-Butylbenzene	19.7		1.0	0.60
103-65-1	n-Propylbenzene	20.9		1.0	0.57
95-47-6	o-Xylene	20.8		1.0	0.42
99-87-6	p-Isopropyltoluene	20.3		1.0	0.56
135-98-8	sec-Butylbenzene	20.4		1.0	0.53
100-42-5	Styrene	20.7		1.0	0.45
75-65-0	tert-Butyl alcohol	219		40	7.2
98-06-6	tert-Butylbenzene	20.5		1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	22.0		1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.0	0.60
127-18-4	Tetrachloroethene	23.0		1.0	0.44
108-88-3	Toluene	20.2		1.0	0.44
156-60-5	trans-1,2-Dichloroethene	19.9		1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	19.8		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	22.1		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	20.6		1.0	0.77
71-55-6	1,1,1-Trichloroethane	20.5		1.0	0.48
79-01-6	Trichloroethene	21.6		1.0	0.44
75-69-4	Trichlorofluoromethane	20.1		1.0	0.45
96-18-4	1,2,3-Trichloropropane	21.4		1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	23.5		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	20.5		1.0	0.52
108-05-4	Vinyl acetate	23.5		2.0	0.61
75-01-4	Vinyl chloride	18.8		1.0	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534342/5

Matrix: Water | Lab File ID: UXC2962.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/12/2022 12:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534342 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	41.4		2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	100		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		62-137
2037-26-5	Toluene-d8 (Surr)	91		78-122

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2962.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 12-Jul-2022 12:31:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-005
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 10:49:17 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 12:59:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.920	0.012	99	898890	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	84	672368	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	93	335502	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.399	5.398	0.000	94	209340	20.0	20.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	240225	20.0	18.4	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	818590	20.0	18.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	96	277267	20.0	17.7	
9 Dichlorodifluoromethane	85	2.043	2.031	0.012	99	190074	20.0	20.8	
10 Chloromethane	50	2.280	2.268	0.012	99	206566	20.0	17.5	
11 Vinyl chloride	62	2.398	2.386	0.012	98	227887	20.0	18.8	
12 Butadiene	54	2.434	2.422	0.012	97	202925	20.0	16.6	
13 Bromomethane	94	2.754	2.742	0.012	91	160563	20.0	17.0	
14 Chloroethane	64	2.861	2.837	0.024	100	153694	20.0	17.5	
15 Dichlorofluoromethane	67	3.062	3.050	0.012	98	345912	20.0	17.4	
16 Trichlorofluoromethane	101	3.086	3.074	0.012	98	337942	20.0	20.1	
17 Ethyl ether	59	3.335	3.335	0.000	90	181053	20.0	20.2	
18 Acrolein	56	3.466	3.465	0.001	97	100546	100.0	90.3	
19 1,1-Dichloroethene	96	3.572	3.560	0.012	98	187836	20.0	20.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.584	3.572	0.012	91	145096	20.0	23.5	
21 Acetone	43	3.596	3.584	0.012	100	156997	40.0	46.5	
22 Iodomethane	142	3.715	3.703	0.012	98	325371	20.0	22.4	
24 Carbon disulfide	76	3.786	3.774	0.012	99	578937	20.0	22.0	
27 Methyl acetate	43	3.857	3.845	0.012	97	402502	40.0	36.5	
26 3-Chloro-1-propene	76	3.881	3.869	0.012	89	146339	20.0	20.2	
28 Methylene Chloride	84	3.987	3.987	0.000	90	213276	20.0	20.2	
29 2-Methyl-2-propanol	59	4.047	4.035	0.012	97	270533	200.0	218.8	
30 Acrylonitrile	53	4.177	4.177	0.000	99	1035099	200.0	226.8	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	577823	20.0	19.0	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	97	236547	20.0	19.9	
34 Hexane	86	4.438	4.426	0.012	91	58792	20.0	21.5	
36 Vinyl acetate	43	4.545	4.545	0.000	97	394193	20.0	23.5	
35 1,1-Dichloroethane	63	4.580	4.568	0.012	96	376266	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	81649	40.0	43.1	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	79	247209	20.0	20.6	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	88	53255	20.0	20.8	
46 Chlorobromomethane	128	5.209	5.209	0.000	91	119666	20.0	20.5	
47 Tetrahydrofuran	42	5.221	5.221	0.000	86	184287	40.0	40.0	
48 Chloroform	83	5.280	5.268	0.012	93	385097	20.0	20.4	
49 1,1,1-Trichloroethane	97	5.434	5.422	0.012	97	332680	20.0	20.5	
50 Cyclohexane	56	5.493	5.493	0.000	86	321980	20.0	19.5	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	94	328016	20.0	20.5	
52 Carbon tetrachloride	117	5.553	5.553	0.000	90	318450	20.0	21.7	
53 Isobutyl alcohol	41	5.553	5.553	0.000	91	301827	500.0	608.5	
55 Benzene	78	5.707	5.707	0.000	96	929707	20.0	20.8	
56 1,2-Dichloroethane	62	5.742	5.730	0.012	97	293830	20.0	19.6	
58 n-Heptane	100	5.897	5.885	0.012	89	52777	20.0	21.2	
60 Trichloroethene	130	6.217	6.205	0.012	96	270610	20.0	21.6	
62 Methylcyclohexane	83	6.406	6.406	0.000	92	345128	20.0	21.5	
63 1,2-Dichloropropane	63	6.418	6.418	0.000	94	213297	20.0	20.4	
66 1,4-Dioxane	88	6.466	6.454	0.012	91	57242	400.0	540.7	
65 Dibromomethane	93	6.501	6.489	0.012	91	138448	20.0	20.9	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	285801	20.0	20.6	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	93	148376	20.0	19.0	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	95	334309	20.0	19.7	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.059	0.000	95	540098	40.0	38.5	
72 Toluene	91	7.260	7.248	0.012	98	1009007	20.0	20.2	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	96	326116	20.0	19.8	
74 Ethyl methacrylate	69	7.426	7.426	0.000	87	300590	20.0	19.0	
75 1,1,2-Trichloroethane	97	7.592	7.592	0.000	91	207224	20.0	21.5	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	223763	20.0	23.0	
77 1,3-Dichloropropane	76	7.746	7.746	0.000	94	347296	20.0	20.5	
78 2-Hexanone	43	7.746	7.746	0.000	94	414631	40.0	38.2	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	235217	20.0	22.2	
82 Ethylene Dibromide	107	8.055	8.055	0.000	98	217602	20.0	20.9	
84 Chlorobenzene	112	8.470	8.470	0.000	96	648217	20.0	21.1	
86 Ethylbenzene	106	8.541	8.541	0.000	97	352253	20.0	20.8	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	219837	20.0	22.0	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	817544	20.0	20.6	
88 o-Xylene	106	9.003	9.003	0.000	95	397362	20.0	20.8	
89 Styrene	104	9.015	9.015	0.000	94	675973	20.0	20.7	
90 Bromoform	173	9.205	9.205	0.000	99	175550	20.0	23.2	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	968941	20.0	20.6	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.596	0.000	95	279015	20.0	21.1	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	77	84868	20.0	17.7	
95 Bromobenzene	156	9.644	9.644	0.000	92	269742	20.0	21.5	
96 1,2,3-Trichloropropane	110	9.668	9.667	0.001	80	99787	20.0	21.4	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	285457	20.0	20.9	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	235299	20.0	20.4	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	94	750888	20.0	20.1	
102 4-Chlorotoluene	91	9.917	9.916	0.001	96	704921	20.0	19.9	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	665915	20.0	20.5	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	96	759668	20.0	20.5	
107 sec-Butylbenzene	105	10.367	10.367	0.000	94	870201	20.0	20.4	
109 4-Isopropyltoluene	119	10.498	10.498	0.000	97	740510	20.0	20.3	

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	10.510	10.509	0.001	75	466798	20.0	21.8	
110 1,4-Dichlorobenzene	146	10.593	10.592	0.001	95	462761	20.0	21.1	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	570625	20.0	19.7	
114 1,2-Dichlorobenzene	146	10.936	10.936	0.000	99	419306	20.0	22.0	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.672	0.000	88	68803	20.0	20.9	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	176715	20.0	20.6	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	96	94162	20.0	24.5	
119 Naphthalene	128	12.715	12.715	0.000	96	589239	20.0	19.3	
120 1,2,3-Trichlorobenzene	180	12.917	12.917	0.000	96	165758	20.0	22.1	
S 130 Total BTEX	1				0		100.0	103.2	
S 131 Trihalomethanes, Total	1				0		80.0	86.3	
S 129 Xylenes, Total	106				0		40.0	41.3	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00451	Amount Added:	16.00	Units: uL	
vmfasaw_00425	Amount Added:	16.00	Units: uL	
vmfasgw_00461	Amount Added:	16.00	Units: uL	
vm40ml_vials_00018	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00092	Amount Added:	2.00	Units: uL	Run Reagent
vm50is_stk_A_00011	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00215	Amount Added:	0.00	Units:	Run Reagent

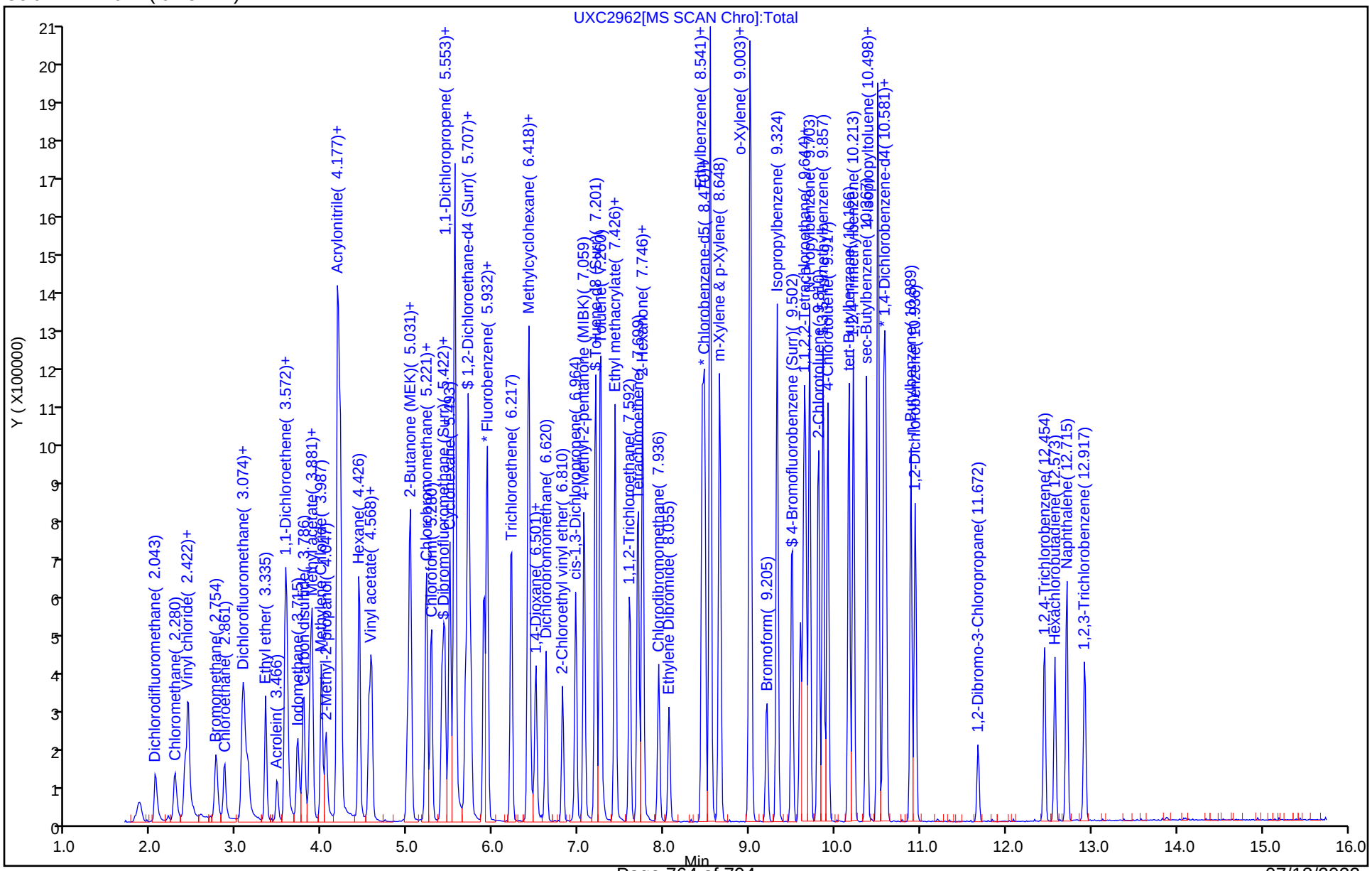
Report Date: 12-Jul-2022 12:59:16 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2962.D

Injection Date:	12-Jul-2022 12:31:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\UXC2962.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 12-Jul-2022 12:31:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120266-005
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220712-120266.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 12-Jul-2022 10:49:17 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: MAW1 Date: 12-Jul-2022 12:59:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.1	100.36
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.4	91.81
$ 6 Toluene-d8 (Surr)	20.0	18.2	91.07
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.7	88.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534562/8

Matrix: Water | Lab File ID: UXC2991.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	44.5		10	5.4
71-43-2	Benzene	20.7		1.0	0.42
108-86-1	Bromobenzene	21.3		1.0	0.50
74-97-5	Bromochloromethane	21.2		1.0	0.54
75-27-4	Bromodichloromethane	20.9		1.0	0.17
75-25-2	Bromoform	23.3		1.0	0.76
74-83-9	Bromomethane	18.6		1.0	0.42
78-93-3	2-Butanone	41.3		10	1.2
75-15-0	Carbon disulfide	21.9		1.0	0.59
56-23-5	Carbon tetrachloride	21.5		1.0	0.26
108-90-7	Chlorobenzene	20.9		1.0	0.38
75-00-3	Chloroethane	18.6		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	18.0		10	1.5
67-66-3	Chloroform	20.5		1.0	0.47
74-87-3	Chloromethane	18.6		1.0	0.63
95-49-8	2-Chlorotoluene	20.6		1.0	0.57
106-43-4	4-Chlorotoluene	19.4		1.0	0.43
156-59-2	cis-1,2-Dichloroethene	20.5		1.0	0.46
10061-01-5	cis-1,3-Dichloropropene	19.8		1.0	0.61
124-48-1	Dibromochloromethane	22.3		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		2.0	0.91
106-93-4	1,2-Dibromoethane	20.7		1.0	0.41
74-95-3	Dibromomethane	21.2		1.0	0.40
95-50-1	1,2-Dichlorobenzene	21.6		1.0	0.48
541-73-1	1,3-Dichlorobenzene	21.0		1.0	0.45
106-46-7	1,4-Dichlorobenzene	21.1		1.0	0.41
75-71-8	Dichlorodifluoromethane	22.9		1.0	0.35
75-34-3	1,1-Dichloroethane	19.5		1.0	0.47
107-06-2	1,2-Dichloroethane	19.3		1.0	0.21
75-35-4	1,1-Dichloroethene	21.4		1.0	0.49
78-87-5	1,2-Dichloropropane	20.5		1.0	0.47
142-28-9	1,3-Dichloropropane	20.2		1.0	0.21
594-20-7	2,2-Dichloropropane	20.4		1.0	0.78
563-58-6	1,1-Dichloropropene	20.0		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534562/8

Matrix: Water | Lab File ID: UXC2991.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	20.6		1.0	0.42
87-68-3	Hexachlorobutadiene	25.6		1.0	0.83
591-78-6	2-Hexanone	36.7		10	1.1
98-82-8	Isopropylbenzene	20.6		1.0	0.49
75-09-2	Methylene Chloride	20.1		5.0	2.6
108-10-1	4-Methyl-2-pentanone	37.0		10	0.99
1634-04-4	Methyl tert-butyl ether	18.5		1.0	0.47
179601-23-1	m-Xylene & p-Xylene	20.5		2.0	0.42
91-20-3	Naphthalene	18.8		1.0	0.80
104-51-8	n-Butylbenzene	19.2		1.0	0.60
103-65-1	n-Propylbenzene	20.1		1.0	0.57
95-47-6	o-Xylene	21.0		1.0	0.42
99-87-6	p-Isopropyltoluene	20.2		1.0	0.56
135-98-8	sec-Butylbenzene	19.9		1.0	0.53
100-42-5	Styrene	20.4		1.0	0.45
75-65-0	tert-Butyl alcohol	218		40	7.2
98-06-6	tert-Butylbenzene	20.1		1.0	0.48
630-20-6	1,1,1,2-Tetrachloroethane	22.0		1.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.0	0.60
127-18-4	Tetrachloroethene	23.9		1.0	0.44
108-88-3	Toluene	19.9		1.0	0.44
156-60-5	trans-1,2-Dichloroethene	19.7		1.0	0.51
10061-02-6	trans-1,3-Dichloropropene	19.4		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	22.1		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	20.7		1.0	0.77
71-55-6	1,1,1-Trichloroethane	20.6		1.0	0.48
79-01-6	Trichloroethene	21.4		1.0	0.44
75-69-4	Trichlorofluoromethane	21.2		1.0	0.45
96-18-4	1,2,3-Trichloropropane	21.0		1.0	0.52
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	24.8		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	19.9		1.0	0.52
108-05-4	Vinyl acetate	23.3		2.0	0.61
75-01-4	Vinyl chloride	19.7		1.0	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton | Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Client Sample ID: | Lab Sample ID: LCS 240-534562/8

Matrix: Water | Lab File ID: UXC2991.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2022 15:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 534562 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	41.5		2.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		56-136
1868-53-7	Dibromofluoromethane (Surr)	102		73-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		62-137
2037-26-5	Toluene-d8 (Surr)	92		78-122

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2991.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 13-Jul-2022 15:02:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-008
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 13:19:40 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 15:20:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.932	5.932	0.000	100	881908	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.446	8.446	0.000	85	655464	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.569	10.569	0.000	92	335247	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.398	5.399	-0.001	94	209531	20.0	20.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.671	5.671	0.000	100	242096	20.0	18.9	
$ 6 Toluene-d8 (Surr)	98	7.201	7.201	0.000	93	805129	20.0	18.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.490	9.490	0.000	97	269146	20.0	17.6	
9 Dichlorodifluoromethane	85	2.043	2.043	-0.001	99	205301	20.0	22.9	
10 Chloromethane	50	2.268	2.268	0.000	99	215634	20.0	18.6	
11 Vinyl chloride	62	2.386	2.387	-0.001	98	233798	20.0	19.7	
12 Butadiene	54	2.422	2.422	0.000	99	210562	20.0	17.6	
13 Bromomethane	94	2.742	2.754	-0.012	92	172105	20.0	18.6	
14 Chloroethane	64	2.849	2.849	0.000	100	160058	20.0	18.6	
15 Dichlorofluoromethane	67	3.050	3.063	-0.013	98	365744	20.0	18.7	
16 Trichlorofluoromethane	101	3.074	3.086	-0.012	99	348739	20.0	21.2	
17 Ethyl ether	59	3.335	3.335	0.000	89	170396	20.0	19.4	
18 Acrolein	56	3.466	3.466	0.000	99	112594	100.0	103.1	
19 1,1-Dichloroethene	96	3.560	3.561	-0.001	97	189295	20.0	21.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.572	3.584	-0.012	88	149938	20.0	24.8	
21 Acetone	43	3.584	3.584	0.000	100	147672	40.0	44.5	
22 Iodomethane	142	3.703	3.715	-0.012	98	324289	20.0	22.8	
24 Carbon disulfide	76	3.774	3.774	0.000	99	565155	20.0	21.9	
27 Methyl acetate	43	3.845	3.857	-0.012	98	398278	40.0	36.9	
26 3-Chloro-1-propene	76	3.881	3.881	0.000	90	144088	20.0	20.3	
28 Methylene Chloride	84	3.987	3.987	0.000	89	208284	20.0	20.1	
29 2-Methyl-2-propanol	59	4.035	4.047	-0.012	97	263919	200.0	217.6	
30 Acrylonitrile	53	4.177	4.177	0.000	98	994542	200.0	222.1	
31 Methyl tert-butyl ether	73	4.201	4.201	0.000	95	552661	20.0	18.5	
32 trans-1,2-Dichloroethene	96	4.213	4.213	0.000	97	230457	20.0	19.7	
34 Hexane	86	4.426	4.426	0.000	91	55103	20.0	20.5	
36 Vinyl acetate	43	4.545	4.545	0.000	97	382771	20.0	23.3	
35 1,1-Dichloroethane	63	4.568	4.569	-0.001	96	372519	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
40 2-Butanone (MEK)	72	4.995	4.995	0.000	99	76705	40.0	41.3	
41 cis-1,2-Dichloroethene	96	5.019	5.019	0.000	81	242393	20.0	20.5	
42 2,2-Dichloropropane	97	5.031	5.031	0.000	89	51405	20.0	20.4	
46 Chlorobromomethane	128	5.209	5.209	0.000	89	120882	20.0	21.2	
47 Tetrahydrofuran	42	5.221	5.221	0.000	87	176504	40.0	39.0	
48 Chloroform	83	5.268	5.268	0.000	93	380475	20.0	20.5	
49 1,1,1-Trichloroethane	97	5.422	5.434	-0.012	98	328334	20.0	20.6	
50 Cyclohexane	56	5.493	5.494	-0.001	86	316565	20.0	19.6	
51 1,1-Dichloropropene	75	5.541	5.541	0.000	97	314806	20.0	20.0	
52 Carbon tetrachloride	117	5.553	5.553	0.000	91	310338	20.0	21.5	
53 Isobutyl alcohol	41	5.553	5.553	0.000	93	280597	500.0	576.6	
55 Benzene	78	5.707	5.707	0.000	96	907204	20.0	20.7	
56 1,2-Dichloroethane	62	5.730	5.731	-0.001	97	284038	20.0	19.3	
58 n-Heptane	100	5.885	5.897	-0.012	89	50116	20.0	20.5	
60 Trichloroethene	130	6.205	6.205	0.000	95	263715	20.0	21.4	
62 Methylcyclohexane	83	6.406	6.407	-0.001	90	335025	20.0	21.3	
63 1,2-Dichloropropane	63	6.418	6.418	0.000	96	210556	20.0	20.5	
66 1,4-Dioxane	88	6.454	6.466	-0.012	96	53088	400.0	511.1	
65 Dibromomethane	93	6.501	6.490	0.011	90	137419	20.0	21.2	
67 Dichlorobromomethane	83	6.620	6.620	0.000	99	284314	20.0	20.9	
69 2-Chloroethyl vinyl ether	63	6.810	6.810	0.000	92	137879	20.0	18.0	
70 cis-1,3-Dichloropropene	75	6.964	6.964	0.000	96	330461	20.0	19.8	
71 4-Methyl-2-pentanone (MIBK)	43	7.059	7.059	0.000	96	508816	40.0	37.0	
72 Toluene	91	7.248	7.260	-0.012	98	970966	20.0	19.9	
73 trans-1,3-Dichloropropene	75	7.426	7.426	0.000	95	310842	20.0	19.4	
74 Ethyl methacrylate	69	7.426	7.426	0.000	87	284838	20.0	18.5	
75 1,1,2-Trichloroethane	97	7.592	7.592	0.000	90	200043	20.0	21.3	
76 Tetrachloroethene	164	7.699	7.699	0.000	97	226753	20.0	23.9	
77 1,3-Dichloropropane	76	7.746	7.747	-0.001	95	334094	20.0	20.2	
78 2-Hexanone	43	7.746	7.747	-0.001	93	388409	40.0	36.7	
80 Chlorodibromomethane	129	7.936	7.936	0.000	90	230473	20.0	22.3	
82 Ethylene Dibromide	107	8.055	8.055	0.000	98	209819	20.0	20.7	
84 Chlorobenzene	112	8.470	8.470	0.000	96	624000	20.0	20.9	
86 Ethylbenzene	106	8.541	8.541	0.000	97	339320	20.0	20.6	
85 1,1,1,2-Tetrachloroethane	131	8.541	8.541	0.000	44	214745	20.0	22.0	
87 m-Xylene & p-Xylene	91	8.648	8.648	0.000	93	795862	20.0	20.5	
88 o-Xylene	106	9.003	9.004	-0.001	96	391926	20.0	21.0	
89 Styrene	104	9.015	9.016	-0.001	95	648797	20.0	20.4	
90 Bromoform	173	9.205	9.205	0.000	99	172293	20.0	23.3	
91 Isopropylbenzene	105	9.324	9.324	0.000	95	946725	20.0	20.6	
94 1,1,2,2-Tetrachloroethane	83	9.596	9.597	-0.001	95	265787	20.0	20.1	
97 trans-1,4-Dichloro-2-butene	53	9.632	9.632	0.000	75	84693	20.0	17.7	
95 Bromobenzene	156	9.644	9.644	0.000	91	268037	20.0	21.3	
96 1,2,3-Trichloropropane	110	9.656	9.656	0.000	80	97801	20.0	21.0	
98 N-Propylbenzene	120	9.703	9.703	0.000	98	274736	20.0	20.1	
99 2-Chlorotoluene	126	9.810	9.810	0.000	98	237183	20.0	20.6	
101 1,3,5-Trimethylbenzene	105	9.857	9.857	0.000	94	744904	20.0	20.0	
102 4-Chlorotoluene	91	9.917	9.917	0.000	96	686812	20.0	19.4	
104 tert-Butylbenzene	119	10.166	10.166	0.000	91	652411	20.0	20.1	
106 1,2,4-Trimethylbenzene	105	10.213	10.213	0.000	95	735890	20.0	19.9	
107 sec-Butylbenzene	105	10.367	10.367	0.000	93	847707	20.0	19.9	
109 4-Isopropyltoluene	119	10.509	10.498	0.011	96	734747	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.509	10.498	0.011	75	450188	20.0	21.0	
110 1,4-Dichlorobenzene	146	10.592	10.593	-0.001	96	462840	20.0	21.1	
113 n-Butylbenzene	91	10.889	10.889	0.000	97	556609	20.0	19.2	
114 1,2-Dichlorobenzene	146	10.936	10.937	-0.001	99	410400	20.0	21.6	
115 1,2-Dibromo-3-Chloropropane	157	11.672	11.672	0.000	87	65615	20.0	20.0	
117 1,2,4-Trichlorobenzene	180	12.454	12.454	0.000	94	178063	20.0	20.7	
118 Hexachlorobutadiene	225	12.573	12.573	0.000	96	98247	20.0	25.6	
119 Naphthalene	128	12.715	12.715	0.000	96	574412	20.0	18.8	
120 1,2,3-Trichlorobenzene	180	12.917	12.917	0.000	95	165712	20.0	22.1	
S 130 Total BTEX	1				0		100.0	102.8	
S 131 Trihalomethanes, Total	1				0		80.0	87.0	
S 129 Xylenes, Total	106				0		40.0	41.5	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00463	Amount Added: 16.00	Units: uL		
vmfasaw_00425	Amount Added: 16.00	Units: uL		
vmfaspw_00451	Amount Added: 16.00	Units: uL		
vm40ml_vials_00018	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00092	Amount Added: 2.00	Units: uL	Run Reagent	
vm50is_stk_A_00011	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00215	Amount Added: 0.00	Units:	Run Reagent	

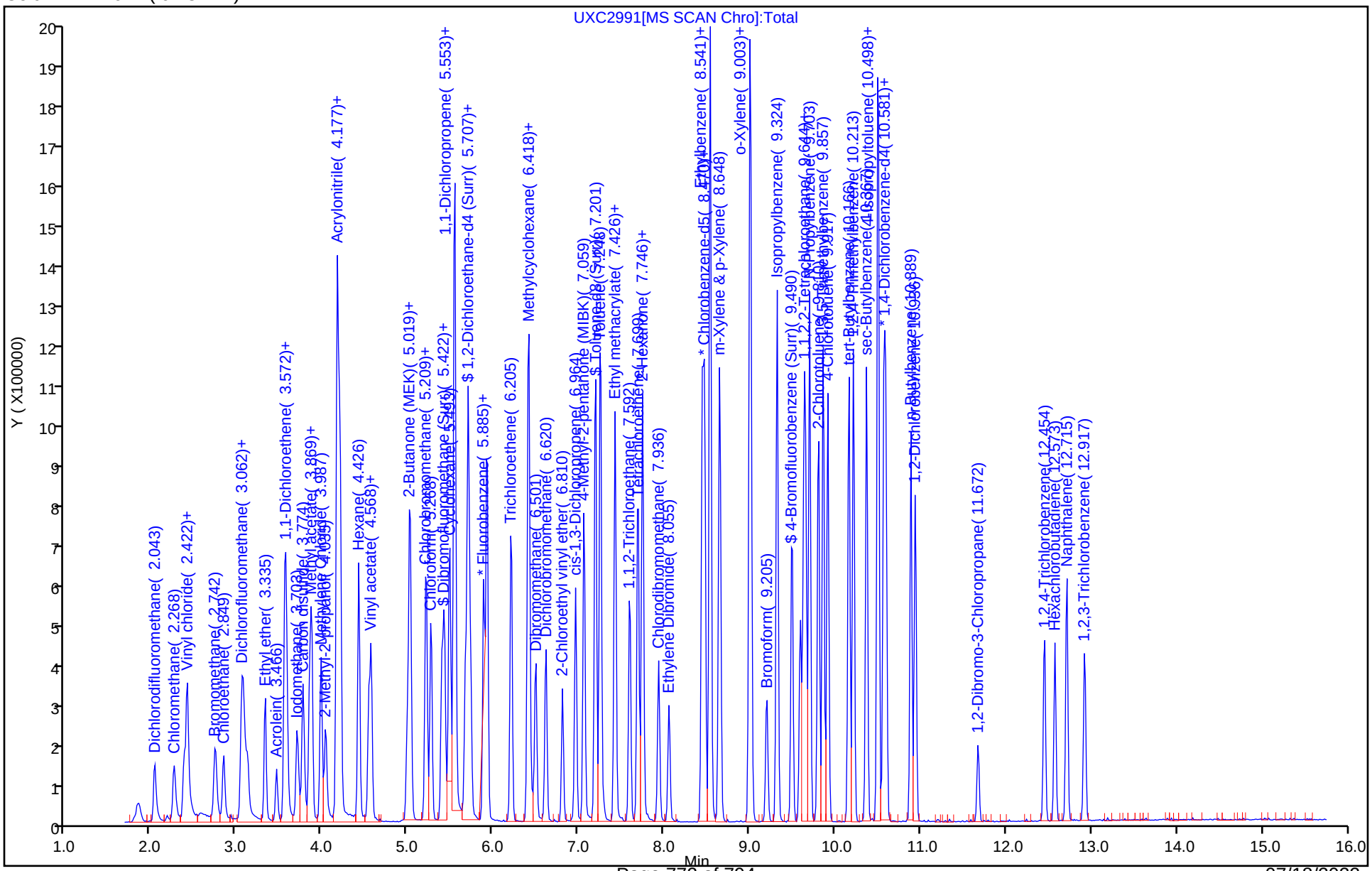
Report Date: 13-Jul-2022 15:20:18 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2991.D

Injection Date:	13-Jul-2022 15:02:30	Instrument ID:	A3UX15	Operator ID:	001904
Lims ID:	LCS			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_15	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\UXC2991.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 13-Jul-2022 15:02:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0120316-008
Operator ID: 001904 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20220713-120316.b\8260_15.m
Limit Group: MSV 8260C ICAL
Last Update: 13-Jul-2022 13:19:40 Calib Date: 17-Jun-2022 22:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20220617-119589.b\UXC2452.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: MAW1 Date: 13-Jul-2022 15:20:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.5	102.39
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.9	94.31
$ 6 Toluene-d8 (Surr)	20.0	18.4	91.88
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.6	87.94

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Start Date: 06/17/2022 14:42

Analysis Batch Number: 531220 End Date: 06/18/2022 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-531220/1		06/17/2022 14:42	1	BFB1270.D	DB-624 0.18(mm)
STD8260 240-531220/9 IC		06/17/2022 15:29	1	UXC2434.D	DB-624 0.18(mm)
STD8260 240-531220/10 IC		06/17/2022 15:53	1	UXC2435.D	DB-624 0.18(mm)
STD8260 240-531220/11 IC		06/17/2022 16:16	1	UXC2436.D	DB-624 0.18(mm)
STD8260 240-531220/12 IC		06/17/2022 16:40	1	UXC2437.D	DB-624 0.18(mm)
ICIS 240-531220/13		06/17/2022 17:03	1	UXC2438.D	DB-624 0.18(mm)
STD8260 240-531220/14 IC		06/17/2022 17:27	1	UXC2439.D	DB-624 0.18(mm)
STD8260 240-531220/15 IC		06/17/2022 17:50	1	UXC2440.D	DB-624 0.18(mm)
STD8260 240-531220/16 IC		06/17/2022 18:14	1	UXC2441.D	DB-624 0.18(mm)
ICV 240-531220/18		06/17/2022 19:01	1	UXC2443.D	DB-624 0.18(mm)
ZZZZZ		06/17/2022 19:25	1		DB-624 0.18(mm)
STDA9 240-531220/21 IC		06/17/2022 20:12	1	UXC2446.D	DB-624 0.18(mm)
STDA9 240-531220/22 IC		06/17/2022 20:35	1	UXC2447.D	DB-624 0.18(mm)
STDA9 240-531220/23 IC		06/17/2022 20:59	1	UXC2448.D	DB-624 0.18(mm)
STDA9 240-531220/24 IC		06/17/2022 21:22	1	UXC2449.D	DB-624 0.18(mm)
STDA9 240-531220/25 IC		06/17/2022 21:46	1	UXC2450.D	DB-624 0.18(mm)
STDA9 240-531220/26 IC		06/17/2022 22:10	1	UXC2451.D	DB-624 0.18(mm)
STDA9 240-531220/27 IC		06/17/2022 22:33	1	UXC2452.D	DB-624 0.18(mm)
ICV 240-531220/29		06/17/2022 23:21	1	UXC2454.D	DB-624 0.18(mm)
ZZZZZ		06/17/2022 23:44	1		DB-624 0.18(mm)
ZZZZZ		06/18/2022 00:08	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Start Date: 07/11/2022 13:35

Analysis Batch Number: 534172 End Date: 07/11/2022 19:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-534172/1		07/11/2022 13:35	1	BFB1290.D	DB-624 0.18(mm)
CCV 240-534172/3		07/11/2022 13:58	1	UXC2945.D	DB-624 0.18(mm)
CCVIS 240-534172/4		07/11/2022 14:21	1	UXC2946.D	DB-624 0.18(mm)
LCS 240-534172/5		07/11/2022 14:45	1	UXC2947.D	DB-624 0.18(mm)
ZZZZZ		07/11/2022 15:08	1		DB-624 0.18(mm)
ZZZZZ		07/11/2022 15:31	1		DB-624 0.18(mm)
MB 240-534172/8		07/11/2022 15:54	1	UXC2950.D	DB-624 0.18(mm)
ZZZZZ		07/11/2022 16:18	1		DB-624 0.18(mm)
ZZZZZ		07/11/2022 16:41	1		DB-624 0.18(mm)
ZZZZZ		07/11/2022 17:28	1		DB-624 0.18(mm)
240-169444-1	MSA-SW37A-070622	07/11/2022 18:14	1	UXC2956.D	DB-624 0.18(mm)
240-169444-2	MSA-SW37B-070622	07/11/2022 18:38	1	UXC2957.D	DB-624 0.18(mm)
240-169444-3	MSA-SW37C-070622	07/11/2022 19:01	1	UXC2958.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Start Date: 07/12/2022 11:22

Analysis Batch Number: 534342 End Date: 07/12/2022 21:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-534342/1		07/12/2022 11:22	1	BFB1291.D	DB-624 0.18(mm)
CCV 240-534342/3		07/12/2022 11:45	1	UXC2960.D	DB-624 0.18(mm)
CCVIS 240-534342/4		07/12/2022 12:08	1	UXC2961.D	DB-624 0.18(mm)
LCS 240-534342/5		07/12/2022 12:31	1	UXC2962.D	DB-624 0.18(mm)
ZZZZZ		07/12/2022 12:55	1		DB-624 0.18(mm)
ZZZZZ		07/12/2022 13:18	1		DB-624 0.18(mm)
MB 240-534342/8		07/12/2022 13:41	1	UXC2965.D	DB-624 0.18(mm)
240-169444-4	MSA-SW37D-070622	07/12/2022 14:04	1	UXC2966.D	DB-624 0.18(mm)
240-169444-5	MSA-SW38A-070622	07/12/2022 14:28	1	UXC2967.D	DB-624 0.18(mm)
240-169444-6	MSA-SW38B-070622	07/12/2022 14:51	1	UXC2968.D	DB-624 0.18(mm)
240-169444-7	MSA-SW38C-070622	07/12/2022 15:14	1	UXC2969.D	DB-624 0.18(mm)
240-169444-8	MSA-SW38D-070622	07/12/2022 15:38	1	UXC2970.D	DB-624 0.18(mm)
240-169444-9	MSA-SW40A-070622	07/12/2022 16:01	1	UXC2971.D	DB-624 0.18(mm)
240-169444-10	MSA-SW40B-070622	07/12/2022 16:24	1	UXC2972.D	DB-624 0.18(mm)
240-169444-11	MSA-SW40C-070622	07/12/2022 16:47	1	UXC2973.D	DB-624 0.18(mm)
240-169444-12	MSA-SW40D-070622	07/12/2022 17:11	1	UXC2974.D	DB-624 0.18(mm)
240-169444-13	MSA-SW41A-070622	07/12/2022 17:34	1	UXC2975.D	DB-624 0.18(mm)
240-169444-14	MSA-SW41B-070622	07/12/2022 17:57	1	UXC2976.D	DB-624 0.18(mm)
240-169444-15	MSA-SW41C-070622	07/12/2022 18:20	1	UXC2977.D	DB-624 0.18(mm)
240-169444-16	MSA-SW41D-070622	07/12/2022 18:43	1	UXC2978.D	DB-624 0.18(mm)
240-169444-17	MSA-SW42A-070622	07/12/2022 19:07	1	UXC2979.D	DB-624 0.18(mm)
240-169444-18	MSA-SW42B-070622	07/12/2022 19:30	1	UXC2980.D	DB-624 0.18(mm)
240-169444-19	MSA-SW42C-070622	07/12/2022 19:53	1	UXC2981.D	DB-624 0.18(mm)
240-169444-20	MSA-SW42D-070622	07/12/2022 20:16	1	UXC2982.D	DB-624 0.18(mm)
240-169444-21	MSA-SW43A-070622	07/12/2022 20:39	1	UXC2983.D	DB-624 0.18(mm)
240-169444-22	MSA-SW43B-070622	07/12/2022 21:02	1	UXC2984.D	DB-624 0.18(mm)
240-169444-23	MSA-SW43C-070622	07/12/2022 21:25	1	UXC2985.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX15 Start Date: 07/13/2022 12:41

Analysis Batch Number: 534562 End Date: 07/13/2022 18:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-534562/33		07/13/2022 12:41	1	BFB1294.D	DB-624 0.18(mm)
CCV 240-534562/3		07/13/2022 13:06	1	UXC2986.D	DB-624 0.18(mm)
ZZZZZ		07/13/2022 14:16	1		DB-624 0.18(mm)
CCVIS 240-534562/7		07/13/2022 14:39	1	UXC2990.D	DB-624 0.18(mm)
LCS 240-534562/8		07/13/2022 15:02	1	UXC2991.D	DB-624 0.18(mm)
ZZZZZ		07/13/2022 15:26	1		DB-624 0.18(mm)
MB 240-534562/10		07/13/2022 15:49	1	UXC2993.D	DB-624 0.18(mm)
240-169444-24	MSA-SW43D-070622	07/13/2022 16:12	1	UXC2994.D	DB-624 0.18(mm)
240-169444-25	TB-070622	07/13/2022 16:35	1	UXC2995.D	DB-624 0.18(mm)
240-169444-26	MSA-SW46A-070622	07/13/2022 16:58	1	UXC2996.D	DB-624 0.18(mm)
240-169444-27	MSA-SW47A-070622	07/13/2022 17:22	1	UXC2997.D	DB-624 0.18(mm)
240-169444-28	MSA-SW48A-070622	07/13/2022 17:45	1	UXC2998.D	DB-624 0.18(mm)
240-169444-29	MSA-SW49A-070622	07/13/2022 18:08	1	UXC2999.D	DB-624 0.18(mm)
240-169444-30	MSA-SWEQB-070622	07/13/2022 18:31	1	UXC3000.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 531220 Batch Start Date: 06/17/22 14:42 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00011	vm50ss_stk 00091	vmarolistdw 00442	vmbfb 00030
BFB 240-531220/1		8260C		5 mL	5 mL				1 uL
STD8260 240-531220/9 IC		8260C		5 mL	5 mL	2 uL	0.4 uL	0.4 uL	
STD8260 240-531220/10 IC		8260C		5 mL	5 mL	2 uL	0.8 uL	0.8 uL	
STD8260 240-531220/11 IC		8260C		5 mL	5 mL	2 uL	1.6 uL	1.6 uL	
STD8260 240-531220/12 IC		8260C		5 mL	5 mL	2 uL	8 uL	8 uL	
ICIS 240-531220/13		8260C		5 mL	5 mL	2 uL	16 uL	16 uL	
STD8260 240-531220/14 IC		8260C		5 mL	5 mL	2 uL	32 uL	32 uL	
STD8260 240-531220/15 IC		8260C		5 mL	5 mL	2 uL	48 uL	48 uL	
STD8260 240-531220/16 IC		8260C		5 mL	5 mL	2 uL	64 uL	64 uL	
ICV 240-531220/18		8260C		5 mL	5 mL	2 uL	2 uL		
STDA9 240-531220/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/24 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/25 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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 531220 Batch Start Date: 06/17/22 14:42 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00011	vm50ss_stk 00091	vmarolistdw 00442	vmbfb 00030
STDA9 240-531220/26 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-531220/27 IC		8260C		5 mL	5 mL	2 uL			
ICV 240-531220/29		8260C		5 mL	5 mL	2 uL	2 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00362	vmfasaw 00422	vmfasgw 00458	vmfaspw 00448	vmra9w 00439	vmrgas 00430
BFB 240-531220/1		8260C							
STD8260 240-531220/9 IC		8260C							0.4 uL
STD8260 240-531220/10 IC		8260C							0.8 uL
STD8260 240-531220/11 IC		8260C							1.6 uL
STD8260 240-531220/12 IC		8260C							8 uL
ICIS 240-531220/13		8260C							16 uL
STD8260 240-531220/14 IC		8260C							32 uL
STD8260 240-531220/15 IC		8260C							48 uL
STD8260 240-531220/16 IC		8260C							64 uL
ICV 240-531220/18		8260C			16 uL	16 uL	16 uL		
STDA9 240-531220/21 IC		8260C						0.4 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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 531220 Batch Start Date: 06/17/22 14:42 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00362	vmfasaw 00422	vmfasgw 00458	vmfaspw 00448	vmra9w 00439	vmrgas 00430
STDA9 240-531220/22 IC		8260C						0.8 uL	
STDA9 240-531220/23 IC		8260C						8 uL	
STDA9 240-531220/24 IC		8260C						16 uL	
STDA9 240-531220/25 IC		8260C						32 uL	
STDA9 240-531220/26 IC		8260C						48 uL	
STDA9 240-531220/27 IC		8260C						64 uL	
ICV 240-531220/29		8260C		16 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00486					
BFB 240-531220/1		8260C							
STD8260 240-531220/9 IC		8260C		0.4 uL					
STD8260 240-531220/10 IC		8260C		0.8 uL					
STD8260 240-531220/11 IC		8260C		1.6 uL					
STD8260 240-531220/12 IC		8260C		8 uL					
ICIS 240-531220/13		8260C		16 uL					
STD8260 240-531220/14 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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 531220 Batch Start Date: 06/17/22 14:42 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00486					
STD8260 240-531220/15 IC		8260C		48 uL					
STD8260 240-531220/16 IC		8260C		64 uL					
ICV 240-531220/18		8260C							
STDA9 240-531220/21 IC		8260C							
STDA9 240-531220/22 IC		8260C							
STDA9 240-531220/23 IC		8260C							
STDA9 240-531220/24 IC		8260C							
STDA9 240-531220/25 IC		8260C							
STDA9 240-531220/26 IC		8260C							
STDA9 240-531220/27 IC		8260C							
ICV 240-531220/29		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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534172 Batch Start Date: 07/11/22 13:35 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_A 00011	vm50ss_stk 00092	vmarolistdw 00445
BFB 240-534172/1		8260C		5 mL	5 mL				
CCV 240-534172/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-534172/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-534172/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-534172/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-169444-C-1	MSA-SW37A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-2	MSA-SW37B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-3	MSA-SW37C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00461	vmfaspw 00451	vmra9w 00442	vmrgas 00433
BFB 240-534172/1		8260C		1 uL					
CCV 240-534172/3		8260C						16 uL	
CCVIS 240-534172/4		8260C							16 uL
LCS 240-534172/5		8260C			16 uL	16 uL	16 uL		
MB 240-534172/8		8260C							
240-169444-C-1	MSA-SW37A-070622	8260C	T						
240-169444-B-2	MSA-SW37B-070622	8260C	T						
240-169444-B-3	MSA-SW37C-070622	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489
BFB 240-534172/1		8260C		
CCV 240-534172/3		8260C		
CCVIS 240-534172/4		8260C		16 uL
LCS 240-534172/5		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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534172 Batch Start Date: 07/11/22 13:35 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489					
MB 240-534172/8		8260C							
240-169444-C-1	MSA-SW37A-070622	8260C	T						
240-169444-B-2	MSA-SW37B-070622	8260C	T						
240-169444-B-3	MSA-SW37C-070622	8260C	T						

Batch Notes	
pH Indicator ID	HC178690

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534342 Batch Start Date: 07/12/22 11:22 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_A 00011	vm50ss_stk 00092	vmarolistdw 00445
BFB 240-534342/1		8260C		5 mL	5 mL				
CCV 240-534342/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-534342/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-534342/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-534342/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-169444-B-4	MSA-SW37D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-5	MSA-SW38A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-6	MSA-SW38B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-7	MSA-SW38C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-8	MSA-SW38D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-9	MSA-SW40A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-10	MSA-SW40B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-11	MSA-SW40C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-12	MSA-SW40D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-13	MSA-SW41A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-14	MSA-SW41B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-15	MSA-SW41C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-16	MSA-SW41D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-17	MSA-SW42A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-18	MSA-SW42B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-19	MSA-SW42C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-20	MSA-SW42D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-21	MSA-SW43A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-22	MSA-SW43B-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-23	MSA-SW43C-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00461	vmfaspw 00451	vmra9w 00442	vmrgas 00433
BFB 240-534342/1		8260C		1 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534342 Batch Start Date: 07/12/22 11:22 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00461	vmfaspw 00451	vmra9w 00442	vmrgas 00433
CCV 240-534342/3		8260C						16 uL	
CCVIS 240-534342/4		8260C							16 uL
LCS 240-534342/5		8260C			16 uL	16 uL	16 uL		
MB 240-534342/8		8260C							
240-169444-B-4	MSA-SW37D-070622	8260C	T						
240-169444-B-5	MSA-SW38A-070622	8260C	T						
240-169444-B-6	MSA-SW38B-070622	8260C	T						
240-169444-B-7	MSA-SW38C-070622	8260C	T						
240-169444-B-8	MSA-SW38D-070622	8260C	T						
240-169444-C-9	MSA-SW40A-070622	8260C	T						
240-169444-B-10	MSA-SW40B-070622	8260C	T						
240-169444-B-11	MSA-SW40C-070622	8260C	T						
240-169444-B-12	MSA-SW40D-070622	8260C	T						
240-169444-C-13	MSA-SW41A-070622	8260C	T						
240-169444-C-14	MSA-SW41B-070622	8260C	T						
240-169444-C-15	MSA-SW41C-070622	8260C	T						
240-169444-B-16	MSA-SW41D-070622	8260C	T						
240-169444-C-17	MSA-SW42A-070622	8260C	T						
240-169444-C-18	MSA-SW42B-070622	8260C	T						
240-169444-C-19	MSA-SW42C-070622	8260C	T						
240-169444-C-20	MSA-SW42D-070622	8260C	T						
240-169444-C-21	MSA-SW43A-070622	8260C	T						
240-169444-C-22	MSA-SW43B-070622	8260C	T						
240-169444-B-23	MSA-SW43C-070622	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489					
BFB 240-534342/1		8260C							
CCV 240-534342/3		8260C							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534342 Batch Start Date: 07/12/22 11:22 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489					
CCVIS 240-534342/4		8260C		16 uL					
LCS 240-534342/5		8260C							
MB 240-534342/8		8260C							
240-169444-B-4	MSA-SW37D-070622	8260C	T						
240-169444-B-5	MSA-SW38A-070622	8260C	T						
240-169444-B-6	MSA-SW38B-070622	8260C	T						
240-169444-B-7	MSA-SW38C-070622	8260C	T						
240-169444-B-8	MSA-SW38D-070622	8260C	T						
240-169444-C-9	MSA-SW40A-070622	8260C	T						
240-169444-B-10	MSA-SW40B-070622	8260C	T						
240-169444-B-11	MSA-SW40C-070622	8260C	T						
240-169444-B-12	MSA-SW40D-070622	8260C	T						
240-169444-C-13	MSA-SW41A-070622	8260C	T						
240-169444-C-14	MSA-SW41B-070622	8260C	T						
240-169444-C-15	MSA-SW41C-070622	8260C	T						
240-169444-B-16	MSA-SW41D-070622	8260C	T						
240-169444-C-17	MSA-SW42A-070622	8260C	T						
240-169444-C-18	MSA-SW42B-070622	8260C	T						
240-169444-C-19	MSA-SW42C-070622	8260C	T						
240-169444-C-20	MSA-SW42D-070622	8260C	T						
240-169444-C-21	MSA-SW43A-070622	8260C	T						
240-169444-C-22	MSA-SW43B-070622	8260C	T						
240-169444-B-23	MSA-SW43C-070622	8260C	T						

Batch Notes	
pH Indicator ID	HC178690

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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534562 Batch Start Date: 07/13/22 12:41 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_A 00011	vm50ss_stk 00092	vmarolistdw 00445
CCV 240-534562/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-534562/7		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-534562/8		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-534562/10		8260C		5 mL	5 mL		2 uL	2 uL	
240-169444-C-24	MSA-SW43D-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-25	TB-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-C-26	MSA-SW46A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-27	MSA-SW47A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-28	MSA-SW48A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-29	MSA-SW49A-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-169444-B-30	MSA-SWEQB-070622	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
BFB 240-534562/33		8260C		5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00463	vmfaspw 00451	vmra9w 00442	vmrgas 00433
CCV 240-534562/3		8260C						16 uL	
CCVIS 240-534562/7		8260C							16 uL
LCS 240-534562/8		8260C			16 uL	16 uL	16 uL		
MB 240-534562/10		8260C							
240-169444-C-24	MSA-SW43D-070622	8260C	T						
240-169444-B-25	TB-070622	8260C	T						
240-169444-C-26	MSA-SW46A-070622	8260C	T						
240-169444-B-27	MSA-SW47A-070622	8260C	T						
240-169444-B-28	MSA-SW48A-070622	8260C	T						
240-169444-B-29	MSA-SW49A-070622	8260C	T						
240-169444-B-30	MSA-SWEQB-070622	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 Canton Job No.: 240-169444-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 534562 Batch Start Date: 07/13/22 12:41 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00030	vmfasaw 00425	vmfasgw 00463	vmfaspw 00451	vmra9w 00442	vmrgas 00433
BFB 240-534562/33		8260C		1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00489					
CCV 240-534562/3		8260C							
CCVIS 240-534562/7		8260C		16 uL					
LCS 240-534562/8		8260C							
MB 240-534562/10		8260C							
240-169444-C-24	MSA-SW43D-070622	8260C	T						
240-169444-B-25	TB-070622	8260C	T						
240-169444-C-26	MSA-SW46A-070622	8260C	T						
240-169444-B-27	MSA-SW47A-070622	8260C	T						
240-169444-B-28	MSA-SW48A-070622	8260C	T						
240-169444-B-29	MSA-SW49A-070622	8260C	T						
240-169444-B-30	MSA-SWEQB-070622	8260C	T						
BFB 240-534562/33		8260C							

Batch Notes	
pH Indicator ID	HC178690

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

Baltimore
#201

CANTON
180 S. VAN BUREN AVE
BARBERTON, OH, 44203

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 7/6/2022	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne Cisneros	Carrier: Fedex	1 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
PROJECT # 112IC09567	☐ 1 day			Sampler: J Mullis

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW37A-070622	7/6/2022	0932	SW	Water	3		x	
MSA-SW37B-070622	7/6/2022	0935	SW	Water	3		x	
MSA-SW37C-070622	7/6/2022	0938	SW	Water	3		x	
MSA-SW37D-070622	7/6/2022	0941	SW	Water	3		x	
MSA-SW38A-070622	7/6/2022	0841	SW	Water	3		x	
MSA-SW38B-070622	7/6/2022	0844	SW	Water	3		x	
MSA-SW38C-070622	7/6/2022	0846	SW	Water	3		x	
MSA-SW38D-070622	7/6/2022	0850	SW	Water	3		x	
MSA-SW40A-070622	7/6/2022	0900	SW	Water	3		x	
MSA-SW40B-070622	7/6/2022	0903	SW	Water	3		x	
MSA-SW40C-070622	7/6/2022	0906	SW	Water	3		x	
MSA-SW40D-070622	7/6/2022	0908	SW	Water	3		x	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							2	

240-169444 Chain of Custody

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin 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:
Zach Musser Zachary Musser	Tetra Tech	7/6/22	[signature]	ETEST	7/6/22 1200
[signature]	ETEST	7/6/22 1220	Tommy Borg	EETNC	7-7-22 930

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

CANTON
180 S. VAN BUREN AVE
BARBERTON, OH, 44203

4.1/4.1

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: 7/6/2022	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne Cisneros	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			
(301) 528-3000 FAX	☐ 2 weeks			SDG No:
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
PROJECT # 112IC09567	☐ 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-SW41A-070622	7/6/2022	0822	SW	Water	3		x	
MSA-SW41B-070622	7/6/2022	0825	SW	Water	3		x	
MSA-SW41C-070622	7/6/2022	0828	SW	Water	3		x	
MSA-SW41D-070622	7/6/2022	0832	SW	Water	3		x	
MSA-SW42A-070622	7/6/2022	0916	SW	Water	3		x	
MSA-SW42B-070622	7/6/2022	0919	SW	Water	3		x	
MSA-SW42C-070622	7/6/2022	0922	SW	Water	3		x	
MSA-SW42D-070622	7/6/2022	0926	SW	Water	3		x	
MSA-SW43A-070622	7/6/2022	0800	SW	Water	3		x	
MSA-SW43B-070622	7/6/2022	0805	SW	Water	3		x	
MSA-SW43C-070622	7/6/2022	0808	SW	Water	3		x	
MSA-SW43D-070622	7/6/2022	0811	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 ☐ Skin 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:
Zach Musser	Tetra Tech	7/6/22		EBT	7/6/22 1700
Relinquished by:	Company: EBT	Date/Time: 7/6/22 1700	Received by:	Company: ECTC	Date/Time: 7-7-22 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

02/18/2022

CANTON
180 S. VAN BUREN AVE
BARBERTON, OH, 44203

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: 7/6/2022	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne Cisneros	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			SDG No:
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			Sampler: J Mullis
PROJECT # 112IC09567	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes
TB-070622	7/6/2022	0000	SW	Water	2		x	
MSA-SW46A-070622	7/6/2022	0912	SW	Water	3		x	
MSA-SW47A-070622	7/6/2022	0859	SW	Water	3		x	
MSA-SW48A-070622	7/6/2022	0836	SW	Water	3		x	
MSA-SW49A-070622	7/6/2022	0816	SW	Water	3		x	
MSA-SWEQB-070622	7/6/2022	0000	SW	Water	3		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ | 2

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin 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:
Zach Musser Zach Musser	Tetra Tech	7/6/22			7/6/22 1700
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	RTCA	7/6/22 1700	Danny Deja	EETPC	7-7-22 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

07/18/2022

Eurofins - Canton Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client Tetra Tech Site Name_____ Cooler unpacked by: Vanessa Boyer

Cooler Received on 7-7-22 Opened on 7-7-22

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off Eurofins Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # 1A 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-13 (CF 0.0 °C) Observed Cooler Temp. 4.1 °C Corrected Cooler Temp. 4.1 °C
   IR GUN #IR-15 (CF -0.7°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)?	(Yes)	No
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# HC178690
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 # None	(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: _____

WI-NC-099

ORIGIN ID:APGA (410) 982-7595
TESTAMERICA BALTIMORE SC
7526 CONNELLEY DR STE F

HANOVER, MD 21076
UNITED STATES US

SHIP DATE: 06JUL22
ACTWGT: 49.20 LB
CAD: 6993699/SSFE2321
DIMS: 24x14x14 IN

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
180 S VAN BUREN AVE

BARBERTON OH 44203
(000) 000 – 0000 REF:
INV:
PO: DEPT:

FedEx
Express
E

1 of 2
TRK# 0201 2751 9439 8410
MASTER
NA CAKA

THU – 07 JUL 10:30A
PRIORITY OVERNIGHT

44203
OH-US CLE

RT164 6 10:30 A
FZ 8410
07.07

APPENDIX C—CHEMICAL RESULTS DATA TABLE

LOCATION		MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW37D
SAMPLE ID		MSA-SW37A-070622	MSA-SW37B-070622	MSA-SW37C-070622	MSA-SW37D-070622
SAMPLE DATE		20220706	20220706	20220706	20220706
DUPLICATE					
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		SW	SW	SW	SW
SAMPLE TYPE		NORMAL	NORMAL	NORMAL	NORMAL
TOP DEPTH		-9999	-9999	-9999	-9999
BOTTOM DEPTH		-9999	-9999	-9999	-9999
Volatile organic componds	**Units**				
1,1,1,2-TETRACHLOROETHANE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
1,1,1-TRICHLOROETHANE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,1,2,2-TETRACHLOROETHANE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
1,1,2-TRICHLOROTRIFLUOROETHANE	µg/L	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,1-DICHLOROETHENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
1,1-DICHLOROPROPENE	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
1,2,3-TRICHLOROBENZENE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2,3-TRIMETHYLBENZENE	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
1,2,4-TRICHLOROBENZENE	µg/L	0.77 U	0.77 U	0.77 U	0.77 U
1,2,4-TRIMETHYLBENZENE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DICHLOROBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,2-DICHLOROETHANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,3-DICHLOROBENZENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
1,3-DICHLOROPROPANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
2,2-DICHLOROPROPANE	µg/L	0.78 U	0.78 U	0.78 U	0.78 U
2-BUTANONE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	µg/L	1.5 UR	1.5 UR	1.5 UR	1.5 UR
2-CHLOROTOLUENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
2-HEXANONE	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLOROTOLUENE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
4-ISOPROPYLTOLUENE	µg/L	0.56 U	0.56 U	0.56 U	0.56 U
4-METHYL-2-PENTANONE	µg/L	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
BROMOBENZENE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
BROMOCHLOROMETHANE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
BROMODICHLOROMETHANE	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	µg/L	0.76 UJ	0.76 UJ	0.76 UJ	0.76 U
BROMOMETHANE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	µg/L	0.59 U	0.59 U	0.59 U	0.59 U
CARBON TETRACHLORIDE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
CHLORODIBROMOMETHANE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	µg/L	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
CHLOROMETHANE	µg/L	0.63 U	0.63 U	0.63 U	0.63 U
CIS-1,2-DICHLOROETHENE	µg/L	0.46 U	0.46 U	0.46 U	0.46 U
CIS-1,3-DICHLOROPROPENE	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
DICHLORODIFLUOROMETHANE	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
ETHYLBENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
HEXACHLOROBUTADIENE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
M+P-XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
METHYL TERT-BUTYL ETHER	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
METHYLENE CHLORIDE	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	µg/L	0.80 U	0.80 U	0.80 U	0.80 U
N-BUTYLBENZENE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
N-PROPYLBENZENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
O-XYLENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
SEC-BUTYLBENZENE	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
STYRENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
TERT-BUTYLBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
TERTIARY-BUTYL ALCOHOL	µg/L	7.2 U	7.2 U	7.2 U	7.2 U
TETRACHLOROETHENE	µg/L	0.44 UJ	0.44 UJ	0.44 UJ	0.44 U
TOLUENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOTAL XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
TRANS-1,2-DICHLOROETHENE	µg/L	0.51 U	0.51 U	0.51 U	0.51 U
TRANS-1,3-DICHLOROPROPENE	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TRICHLOROFLUOROMETHANE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	µg/L	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
VINYL CHLORIDE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U

Parameter has at least one positive detection.

LOCATION		MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW38D
SAMPLE ID		MSA-SW38A-070622	MSA-SW38B-070622	MSA-SW38C-070622	MSA-SW38D-070622
SAMPLE DATE		20220706	20220706	20220706	20220706
DUPLICATE					
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		SW	SW	SW	SW
SAMPLE TYPE		NORMAL	NORMAL	NORMAL	NORMAL
TOP DEPTH		-9999	-9999	-9999	-9999
BOTTOM DEPTH		-9999	-9999	-9999	-9999
Volatile organic componds	**Units**				
1,1,1,2-TETRACHLOROETHANE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
1,1,1-TRICHLOROETHANE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,1,2,2-TETRACHLOROETHANE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
1,1,2-TRICHLOROTRIFLUOROETHANE	µg/L	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,1-DICHLOROETHENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
1,1-DICHLOROPROPENE	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
1,2,3-TRICHLOROBENZENE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2,3-TRIMETHYLBENZENE	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
1,2,4-TRICHLOROBENZENE	µg/L	0.77 U	0.77 U	0.77 U	0.77 U
1,2,4-TRIMETHYLBENZENE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DICHLOROBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,2-DICHLOROETHANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,3-DICHLOROBENZENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
1,3-DICHLOROPROPANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
2,2-DICHLOROPROPANE	µg/L	0.78 U	0.78 U	0.78 U	0.78 U
2-BUTANONE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	µg/L	1.5 UR	1.5 UR	1.5 UR	1.5 UR
2-CHLOROTOLUENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
2-HEXANONE	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLOROTOLUENE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
4-ISOPROPYLTOLUENE	µg/L	0.56 U	0.56 U	0.56 U	0.56 U
4-METHYL-2-PENTANONE	µg/L	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
BROMOBENZENE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
BROMOCHLOROMETHANE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
BROMODICHLOROMETHANE	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	µg/L	0.59 U	0.59 U	0.59 U	0.59 U
CARBON TETRACHLORIDE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
CHLORODIBROMOMETHANE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	µg/L	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
CHLOROMETHANE	µg/L	0.63 U	0.63 U	0.63 U	0.63 U
CIS-1,2-DICHLOROETHENE	µg/L	0.46 U	0.46 U	0.46 U	0.46 U
CIS-1,3-DICHLOROPROPENE	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
DICHLORODIFLUOROMETHANE	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
ETHYLBENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
HEXACHLOROBUTADIENE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
M+P-XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
METHYL TERT-BUTYL ETHER	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
METHYLENE CHLORIDE	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	µg/L	0.80 U	0.80 U	0.80 U	0.80 U
N-BUTYLBENZENE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
N-PROPYLBENZENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
O-XYLENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
SEC-BUTYLBENZENE	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
STYRENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
TERT-BUTYLBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
TERTIARY-BUTYL ALCOHOL	µg/L	7.2 U	7.2 U	7.2 U	7.2 U
TETRACHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOLUENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOTAL XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
TRANS-1,2-DICHLOROETHENE	µg/L	0.51 U	0.51 U	0.51 U	0.51 U
TRANS-1,3-DICHLOROPROPENE	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TRICHLOROFLUOROMETHANE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	µg/L	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
VINYL CHLORIDE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U

Parameter has at least one positive detection.

LOCATION		MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW40D
SAMPLE ID		MSA-SW40A-070622	MSA-SW40B-070622	MSA-SW40C-070622	MSA-SW40D-070622
SAMPLE DATE		20220706	20220706	20220706	20220706
DUPLICATE					
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		SW	SW	SW	SW
SAMPLE TYPE		NORMAL	NORMAL	NORMAL	NORMAL
TOP DEPTH		-9999	-9999	-9999	-9999
BOTTOM DEPTH		-9999	-9999	-9999	-9999
Volatile organic componds	**Units**				
1,1,1,2-TETRACHLOROETHANE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
1,1,1-TRICHLOROETHANE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,1,2,2-TETRACHLOROETHANE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
1,1,2-TRICHLOROTRIFLUOROETHANE	µg/L	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,1-DICHLOROETHENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
1,1-DICHLOROPROPENE	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
1,2,3-TRICHLOROBENZENE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2,3-TRIMETHYLBENZENE	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
1,2,4-TRICHLOROBENZENE	µg/L	0.77 U	0.77 U	0.77 U	0.77 U
1,2,4-TRIMETHYLBENZENE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DICHLOROBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,2-DICHLOROETHANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,3-DICHLOROBENZENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
1,3-DICHLOROPROPANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
2,2-DICHLOROPROPANE	µg/L	0.78 U	0.78 U	0.78 U	0.78 U
2-BUTANONE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	µg/L	1.5 UR	1.5 UR	1.5 UR	1.5 UR
2-CHLOROTOLUENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
2-HEXANONE	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLOROTOLUENE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
4-ISOPROPYLTOLUENE	µg/L	0.56 U	0.56 U	0.56 U	0.56 U
4-METHYL-2-PENTANONE	µg/L	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
BROMOBENZENE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
BROMOCHLOROMETHANE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
BROMODICHLOROMETHANE	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	µg/L	0.59 U	0.59 U	0.59 U	0.59 U
CARBON TETRACHLORIDE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
CHLORODIBROMOMETHANE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	µg/L	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
CHLOROMETHANE	µg/L	0.63 U	0.63 U	0.63 U	0.63 U
CIS-1,2-DICHLOROETHENE	µg/L	0.46 U	0.46 U	0.46 U	0.46 U
CIS-1,3-DICHLOROPROPENE	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
DICHLORODIFLUOROMETHANE	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
ETHYLBENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
HEXACHLOROBUTADIENE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
M+P-XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
METHYL TERT-BUTYL ETHER	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
METHYLENE CHLORIDE	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	µg/L	0.80 U	0.80 U	0.80 U	0.80 U
N-BUTYLBENZENE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
N-PROPYLBENZENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
O-XYLENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
SEC-BUTYLBENZENE	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
STYRENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
TERT-BUTYLBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
TERTIARY-BUTYL ALCOHOL	µg/L	7.2 U	7.2 U	7.2 U	7.2 U
TETRACHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOLUENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOTAL XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
TRANS-1,2-DICHLOROETHENE	µg/L	0.51 U	0.51 U	0.51 U	0.51 U
TRANS-1,3-DICHLOROPROPENE	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TRICHLOROFLUOROMETHANE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	µg/L	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
VINYL CHLORIDE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U

Parameter has at least one positive detection.

LOCATION		MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW41D
SAMPLE ID		MSA-SW41A-070622	MSA-SW41B-070622	MSA-SW41C-070622	MSA-SW41D-070622
SAMPLE DATE		20220706	20220706	20220706	20220706
DUPLICATE					
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		SW	SW	SW	SW
SAMPLE TYPE		NORMAL	NORMAL	NORMAL	NORMAL
TOP DEPTH		-9999	-9999	-9999	-9999
BOTTOM DEPTH		-9999	-9999	-9999	-9999
Volatile organic componds	**Units**				
1,1,1,2-TETRACHLOROETHANE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
1,1,1-TRICHLOROETHANE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,1,2,2-TETRACHLOROETHANE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
1,1,2-TRICHLOROTRIFLUOROETHANE	µg/L	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,1-DICHLOROETHENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
1,1-DICHLOROPROPENE	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
1,2,3-TRICHLOROBENZENE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2,3-TRIMETHYLBENZENE	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
1,2,4-TRICHLOROBENZENE	µg/L	0.77 U	0.77 U	0.77 U	0.77 U
1,2,4-TRIMETHYLBENZENE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DICHLOROBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,2-DICHLOROETHANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,3-DICHLOROBENZENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
1,3-DICHLOROPROPANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
2,2-DICHLOROPROPANE	µg/L	0.78 U	0.78 U	0.78 U	0.78 U
2-BUTANONE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	µg/L	1.5 UR	1.5 UR	1.5 UR	1.5 UR
2-CHLOROTOLUENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
2-HEXANONE	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLOROTOLUENE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
4-ISOPROPYLTOLUENE	µg/L	0.56 U	0.56 U	0.56 U	0.56 U
4-METHYL-2-PENTANONE	µg/L	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
BROMOBENZENE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
BROMOCHLOROMETHANE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
BROMODICHLOROMETHANE	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	µg/L	0.59 U	0.59 U	0.59 U	0.59 U
CARBON TETRACHLORIDE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
CHLORODIBROMOMETHANE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	µg/L	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
CHLOROMETHANE	µg/L	0.63 U	0.63 U	0.63 U	0.63 U
CIS-1,2-DICHLOROETHENE	µg/L	0.46 U	0.46 U	0.46 U	0.46 U
CIS-1,3-DICHLOROPROPENE	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
DICHLORODIFLUOROMETHANE	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
ETHYLBENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
HEXACHLOROBUTADIENE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
M+P-XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
METHYL TERT-BUTYL ETHER	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
METHYLENE CHLORIDE	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	µg/L	0.80 U	0.80 U	0.80 U	0.80 U
N-BUTYLBENZENE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
N-PROPYLBENZENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
O-XYLENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
SEC-BUTYLBENZENE	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
STYRENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
TERT-BUTYLBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
TERTIARY-BUTYL ALCOHOL	µg/L	7.2 U	7.2 U	7.2 U	7.2 U
TETRACHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOLUENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOTAL XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
TRANS-1,2-DICHLOROETHENE	µg/L	0.51 U	0.51 U	0.51 U	0.51 U
TRANS-1,3-DICHLOROPROPENE	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TRICHLOROFLUOROMETHANE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	µg/L	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
VINYL CHLORIDE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U

Parameter has at least one positive detection.

LOCATION		MSA-SW42A	MSA-SW42B	MSA-SW42C	MSA-SW42D
SAMPLE ID		MSA-SW42A-070622	MSA-SW42B-070622	MSA-SW42C-070622	MSA-SW42D-070622
SAMPLE DATE		20220706	20220706	20220706	20220706
DUPLICATE					
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		SW	SW	SW	SW
SAMPLE TYPE		NORMAL	NORMAL	NORMAL	NORMAL
TOP DEPTH		-9999	-9999	-9999	-9999
BOTTOM DEPTH		-9999	-9999	-9999	-9999
Volatile organic componds	**Units**				
1,1,1,2-TETRACHLOROETHANE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
1,1,1-TRICHLOROETHANE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,1,2,2-TETRACHLOROETHANE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
1,1,2-TRICHLOROTRIFLUOROETHANE	µg/L	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,1-DICHLOROETHENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
1,1-DICHLOROPROPENE	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
1,2,3-TRICHLOROBENZENE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2,3-TRIMETHYLBENZENE	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
1,2,4-TRICHLOROBENZENE	µg/L	0.77 U	0.77 U	0.77 U	0.77 U
1,2,4-TRIMETHYLBENZENE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DICHLOROBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,2-DICHLOROETHANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,3-DICHLOROBENZENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
1,3-DICHLOROPROPANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
2,2-DICHLOROPROPANE	µg/L	0.78 U	0.78 U	0.78 U	0.78 U
2-BUTANONE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	µg/L	1.5 UR	1.5 UR	1.5 UR	1.5 UR
2-CHLOROTOLUENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
2-HEXANONE	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLOROTOLUENE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
4-ISOPROPYLTOLUENE	µg/L	0.56 U	0.56 U	0.56 U	0.56 U
4-METHYL-2-PENTANONE	µg/L	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
BROMOBENZENE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
BROMOCHLOROMETHANE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
BROMODICHLOROMETHANE	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	µg/L	0.59 U	0.59 U	0.59 U	0.59 U
CARBON TETRACHLORIDE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
CHLORODIBROMOMETHANE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	µg/L	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
CHLOROMETHANE	µg/L	0.63 U	0.63 U	0.63 U	0.63 U
CIS-1,2-DICHLOROETHENE	µg/L	0.46 U	0.46 U	0.46 U	0.46 U
CIS-1,3-DICHLOROPROPENE	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
DICHLORODIFLUOROMETHANE	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
ETHYLBENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
HEXACHLOROBUTADIENE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
M+P-XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
METHYL TERT-BUTYL ETHER	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
METHYLENE CHLORIDE	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	µg/L	0.80 U	0.80 U	0.80 U	0.80 U
N-BUTYLBENZENE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
N-PROPYLBENZENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
O-XYLENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
SEC-BUTYLBENZENE	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
STYRENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
TERT-BUTYLBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
TERTIARY-BUTYL ALCOHOL	µg/L	7.2 U	7.2 U	7.2 U	7.2 U
TETRACHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOLUENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOTAL XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
TRANS-1,2-DICHLOROETHENE	µg/L	0.51 U	0.51 U	0.51 U	0.51 U
TRANS-1,3-DICHLOROPROPENE	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TRICHLOROFLUOROMETHANE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	µg/L	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
VINYL CHLORIDE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U

Parameter has at least one positive detection.

LOCATION		MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW43D
SAMPLE ID		MSA-SW43A-070622	MSA-SW43B-070622	MSA-SW43C-070622	MSA-SW43D-070622
SAMPLE DATE		20220706	20220706	20220706	20220706
DUPLICATE					
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		SW	SW	SW	SW
SAMPLE TYPE		NORMAL	NORMAL	NORMAL	NORMAL
TOP DEPTH		-9999	-9999	-9999	-9999
BOTTOM DEPTH		-9999	-9999	-9999	-9999
Volatile organic componds	**Units**				
1,1,1,2-TETRACHLOROETHANE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
1,1,1-TRICHLOROETHANE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,1,2,2-TETRACHLOROETHANE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
1,1,2-TRICHLOROTRIFLUOROETHANE	µg/L	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,1-DICHLOROETHENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
1,1-DICHLOROPROPENE	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
1,2,3-TRICHLOROBENZENE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2,3-TRIMETHYLBENZENE	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
1,2,4-TRICHLOROBENZENE	µg/L	0.77 U	0.77 U	0.77 U	0.77 U
1,2,4-TRIMETHYLBENZENE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DICHLOROBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,2-DICHLOROETHANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,3-DICHLOROBENZENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
1,3-DICHLOROPROPANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
2,2-DICHLOROPROPANE	µg/L	0.78 U	0.78 U	0.78 U	0.78 U
2-BUTANONE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	µg/L	1.5 UR	1.5 UR	1.5 UR	1.5 UR
2-CHLOROTOLUENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
2-HEXANONE	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLOROTOLUENE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
4-ISOPROPYLTOLUENE	µg/L	0.56 U	0.56 U	0.56 U	0.56 U
4-METHYL-2-PENTANONE	µg/L	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
BROMOBENZENE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
BROMOCHLOROMETHANE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
BROMODICHLOROMETHANE	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	µg/L	0.76 U	0.76 U	0.76 U	0.76 UJ
BROMOMETHANE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	µg/L	0.59 U	0.59 U	0.59 U	0.59 U
CARBON TETRACHLORIDE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
CHLORODIBROMOMETHANE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	µg/L	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
CHLOROMETHANE	µg/L	0.63 U	0.63 U	0.63 U	0.63 U
CIS-1,2-DICHLOROETHENE	µg/L	0.46 U	0.46 U	0.46 U	0.46 U
CIS-1,3-DICHLOROPROPENE	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
DICHLORODIFLUOROMETHANE	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
ETHYLBENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
HEXACHLOROBUTADIENE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
M+P-XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
METHYL TERT-BUTYL ETHER	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
METHYLENE CHLORIDE	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	µg/L	0.80 U	0.80 U	0.80 U	0.80 U
N-BUTYLBENZENE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
N-PROPYLBENZENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
O-XYLENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
SEC-BUTYLBENZENE	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
STYRENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
TERT-BUTYLBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
TERTIARY-BUTYL ALCOHOL	µg/L	7.2 U	7.2 U	7.2 U	7.2 UJ
TETRACHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 UJ
TOLUENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOTAL XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
TRANS-1,2-DICHLOROETHENE	µg/L	0.51 U	0.51 U	0.51 U	0.51 U
TRANS-1,3-DICHLOROPROPENE	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TRICHLOROFLUOROMETHANE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	µg/L	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
VINYL CHLORIDE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U

Parameter has at least one positive detection.

LOCATION		MSA-SW46A	MSA-SW47A	MSA-SW48A	MSA-SW49A
SAMPLE ID		MSA-SW46A-070622	MSA-SW47A-070622	MSA-SW48A-070622	MSA-SW49A-070622
SAMPLE DATE		20220706	20220706	20220706	20220706
DUPLICATE					
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		SW	SW	SW	SW
SAMPLE TYPE		NORMAL	NORMAL	NORMAL	NORMAL
TOP DEPTH		-9999	-9999	-9999	-9999
BOTTOM DEPTH		-9999	-9999	-9999	-9999
Volatile organic componds	**Units**				
1,1,1,2-TETRACHLOROETHANE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
1,1,1-TRICHLOROETHANE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,1,2,2-TETRACHLOROETHANE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
1,1,2-TRICHLOROTRIFLUOROETHANE	µg/L	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,1-DICHLOROETHENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
1,1-DICHLOROPROPENE	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
1,2,3-TRICHLOROBENZENE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2,3-TRIMETHYLBENZENE	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
1,2,4-TRICHLOROBENZENE	µg/L	0.77 U	0.77 U	0.77 U	0.77 U
1,2,4-TRIMETHYLBENZENE	µg/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DICHLOROBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
1,2-DICHLOROETHANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
1,3-DICHLOROBENZENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
1,3-DICHLOROPROPANE	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
2,2-DICHLOROPROPANE	µg/L	0.78 U	0.78 U	0.78 U	0.78 U
2-BUTANONE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	µg/L	1.5 UR	1.5 UR	1.5 UR	1.5 UR
2-CHLOROTOLUENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
2-HEXANONE	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLOROTOLUENE	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
4-ISOPROPYLTOLUENE	µg/L	0.56 U	0.56 U	0.56 U	0.56 U
4-METHYL-2-PENTANONE	µg/L	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
BROMOBENZENE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
BROMOCHLOROMETHANE	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
BROMODICHLOROMETHANE	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	µg/L	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ
BROMOMETHANE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	µg/L	0.59 U	0.59 U	0.59 U	0.59 U
CARBON TETRACHLORIDE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
CHLORODIBROMOMETHANE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	µg/L	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
CHLOROMETHANE	µg/L	0.63 U	0.63 U	0.63 U	0.63 U
CIS-1,2-DICHLOROETHENE	µg/L	0.46 U	0.46 U	0.46 U	0.46 U
CIS-1,3-DICHLOROPROPENE	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
DICHLORODIFLUOROMETHANE	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	µg/L	0.40 U	0.40 U	0.40 U	0.40 U
ETHYLBENZENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
HEXACHLOROBUTADIENE	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	µg/L	0.49 U	0.49 U	0.49 U	0.49 U
M+P-XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
METHYL TERT-BUTYL ETHER	µg/L	0.47 U	0.47 U	0.47 U	0.47 U
METHYLENE CHLORIDE	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	µg/L	0.80 U	0.80 U	0.80 U	0.80 U
N-BUTYLBENZENE	µg/L	0.60 U	0.60 U	0.60 U	0.60 U
N-PROPYLBENZENE	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
O-XYLENE	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
SEC-BUTYLBENZENE	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
STYRENE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
TERT-BUTYLBENZENE	µg/L	0.48 U	0.48 U	0.48 U	0.48 U
TERTIARY-BUTYL ALCOHOL	µg/L	7.2 UJ	7.2 UJ	7.2 UJ	7.2 UJ
TETRACHLOROETHENE	µg/L	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ
TOLUENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TOTAL XYLENES	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
TRANS-1,2-DICHLOROETHENE	µg/L	0.51 U	0.51 U	0.51 U	0.51 U
TRANS-1,3-DICHLOROPROPENE	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
TRICHLOROFLUOROMETHANE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	µg/L	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
VINYL CHLORIDE	µg/L	0.45 U	0.45 U	0.45 U	0.45 U

µg/L - micrgrams per liter
J - esxtimated value

UJ - not detected; reportd detecion limit is approximate
UR - rejected; data quaility criteria not met